

OFF-SITE PARKING

PARKING LOCATION

NOTE: OFF-SITE PARKING IS LOCATED AT 325 WEST LOS OLIVOS STREET

SANSUM DIABETES RESEARCH INSTITUTE

2219 BATH STREET SANTA BARBARA, CALIFORNIA

VICINITY MAP

PROJECT LOCATION

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ABBREVIATIONS

AT CENTER LINE	FLC FIRE LINE CONNECTION	RD ROOF DRAIN
PENNY	FLG FLASHING	REF REFRIGERATOR
POUND	FLR FLOOR	REINF REINFORCE OR REINFORCING
PERRIBICULAR	FOC FACE OF CONCRETE	RH ROUND HEAD
ANGLE	FOF FACE OF FINISH	RM ROOM
ANCHOR BOLT	FOM FACE OF MASONRY	RO ROUGH OPENING
ASPHALTIC CONCRETE	FOP FACE OF PLYWOOD	RWD REDWOOD
ALTERNATE	FOS FACE OF STUD	S SOUTH
ALUM ALUMINUM	FT FOOT OR FEET	SCH SCHEDULE
ANDZED	FTG FOOTING	SCD SEWER CLEAN OUT
ACC ACCESSIBLE	FS FINISH SURFACE	SMH SEWER MAN HOLE
APPROX APPROXIMATE	GA GAUGE	SHR SHOWER
ARCH ARCHITECT OR ARCHITECTURAL	GALV GALVANIZED	SHT SHEET
BOARD	GB GRAB BAR	SHTNG SHEATHING
BLDG BUILDING	GL GLUE LAMINATED BEAM	SM SIMILAR
BLK(G) BLOCKING	GM GAS METER	SMACNA RE THE ARCH SHEET METAL MANUAL
BLM BEAM	GSF GYPSUM GROSS SQUARE FEET	SPEC SPECIFICATION
BUR BUILT UP ROOFING	GWB GYPSUM WALL BOARD	SO SQUARE
BW BACK OF WALK	HB HOSE BIBB	SSTL STAINLESS STEEL
CAST IRON	HOR HEADER	STD STANDARD
CONSTRUCTION JOINT	HGT HEIGHT	STL STEEL
CEILING	HORIZ HORIZONTAL	STR STRUCTURAL
CLR CLEAR	HTR HEATER	SUSP SUSPENDED
CMU CONCRETE MASONRY UNIT	HVAC HEATING/VENTILATING/AIR CONDITIONING	SW SIDE WALK
CLEAN OUT	ID INSIDE DIAMETER	SYM SYMMETRICAL
COL COLUMN	INSUL INSULATION OR INSULATED	TB TOP OF BERM
CONC CONCRETE	INV INVERT	TC TOP OF CURB OR TOP OF CONCRETE
CONT CONTIGUOUS	IRB IRRIGATION BOX	TCB TOP OF CATCH BASIN
CSK COUNTERSINK	LAV LAVATORY	TEL TELEPHONE
CW COLD WATER	MAT MATERIAL	TEMP TEMPERATURE OR TEMPERED
CHANNEL	MAX MAXIMUM	TAG TONGUE & GROOVE
DA DISABLED ACCESS	MB MACHINE BOLT	TP TOP OF PAVING
DBL DOUBLE	MCH MECHANICAL	TS STRUCTURAL TUBING
DEPT DEPARTMENT	MET METAL	TV TELEVISION
DET DETAIL	MFR MANUFACTURE OR MANUFACTURER	TW TOP OF WALL
DRINKING FOUNTAIN	MH MAN HOLE	TYP TYPICAL (ITEMS TYPICAL UNLESS SHOWN OR NOTED OTHERWISE)
DIAMETER	MIN MINIMUM	UN UNLESS OTHERWISE NOTED
DIAG DIAGONAL	MISC MISCELLANEOUS	VCT VINYL COMPOSITE TILE
DROP INLET	MO MASONRY OPENING	VERT VERTICAL
DRAN MAN HOLE	N NORTH	VDF VERTICAL GRAIN DOUGLAS FIR
DOWN	NW NEW	VENT VENT THRU ROOF
DOWNSPOUT	NIC NOT IN CONTRACT	WC WATER CLOSET
DWG DRAWING	NO OR # NUMBER	WD WOOD
E EAST	NSF NET SQUARE FEET	WH WATER HEATER
(E) EXISTING	NTS NOT TO SCALE	WP WATERPROOF
EB EXPANSION BOLT	OC ON CENTER	WS WOOD SCREW
EJ EXPANSION JOINT	OD OUTSIDE DIAMETER	WSC WAINSCOT
ELEV ELEVATION	OPNG OPENING	WEL WELDED WIRE FABRIC
ELEC ELECTRICAL	PL PLATE OR PROPERTY LINE	W/ WITH
EQU EQUIPMENT	PLAM PLASTER (NUMBER - SEE SPECS)	WO WITHOUT
EMR ELASTOMERIC MEMBRANE ROOFING	PLYWD PLYWOOD	WV WATER VALVE
FLOOR DRAIN	PNT PAINT (NUMBER - SEE SPECS)	
FE(C) FIRE EXTINGUISHER (A CABINET)	PLUMB PLUMBING	
FF FINISHED FLOOR	PTDF PRESSURE TREATED DOUGLAS FIR	
FG FINISHED GRADE		
PH FLAT HEAD		
FINISH		
FL FLOW LEVEL		

SCOPE OF WORK

TEENANT IMPROVEMENT TO EXISTING 16,599 SF NET TWO STORY WITH A BASEMENT MEDICAL OFFICE (ADMINISTRATIVE AND MEDICAL RESEARCH LABORATORY/MEDICAL OFFICE SPACE). IMPROVEMENTS INCLUDE: ADDING AND UPDATING INTERIOR FINISHES, RESTROOMS, OPEN OFFICE AREAS AS WELL AS MECHANICAL AND ELECTRICAL IN SUPPORT OF THE WORK. AT SECOND FLOOR, 250 SF (MINOR ADDITION 1-1,000 SF) COVERED PORCH INTO AIR CONDITIONED SPACE. REQUEST BICYCLE PARKING - 10 SHORT TERM. ELEVATOR TO BE UPGRADED TO ALL 2022 CBC 11B REQUIREMENTS. NEW 5'-0" HIGH BLACK W.I. FENCE AND GATE. NEW METAL AWNING STATING "SANSUM DIABETES RESEARCH INSTITUTE" SHALL REQUIRE REVIEW BY THE SIGN COMMITTEE AND WILL NEED TO BE APPROVED UNDER SEPARATE APPLICATION.

PROJECT DATA

CLIENT CONTACT:	KATIE HAQ 2219 BATH STREET SANTA BARBARA, CA, 93105 email: khaq@sansum.org TEL: (805) 882-7640 Ext. 235	PARKING:	ON SITE (E): 16 SPACES ON SITE (N): 1 SPACE OFF SITE (E): 24 SPACES TOTAL: 41 SPACES
PROJECT REPRESENTATIVE:	ONE STORY ARCHITECT, INC. KRISTIN STORY 114 EAST DE LA GUERRA ST, SUITE 5A SANTA BARBARA, CA, 93101 email: kristin@onestoryarchitect.com TEL: (805) 886-9484	RESEARCH PARKING RATIO:	1/440 16,759 / 440 = 38.08 THEREFORE 39 SPACES
PROJECT ADDRESS:	2219 BATH STREET, SANTA BARBARA, CA, 93105	EXISTING:	PERVIOUS: 3,373 SF 19% IMPERVIOUS: 14,336 SF 81%
LOT SIZE:	406 ACRES OR 17,709 GROSS SF	PROPOSED:	PERVIOUS: 3,458 SF 20% IMPERVIOUS: 14,251 SF 80%
APN:	025-172-030	SLOPE:	6%
BASEMENT:	5,889 NET SF 6,445 GROSS SF	SHORT TERM BICYCLE PARKING:	EXISTING: 4 PROPOSED: 6 TOTAL: 10
FIRST FLOOR:	5,553 NET SF 6,195 GROSS SF		
SECOND FLOOR:	5,067 NET SF 4,988 GROSS SF		
EXISTING SQUARE FOOTAGE:	16,509 NET SF 17,640 GROSS SF		
PROPOSED NEW SQUARE FOOTAGE:	250 NET SF 288 GROSS SF		
TOTAL EXISTING + PROPOSED =	16,759 NET SF 17,928 GROSS SF		

* NON-RESIDENTIAL GROWTH MANAGEMENT PROGRAM (GMP): MINOR ADDITION (1-1,000 SF).

REQUEST FOR PARKING DESIGN WAIVER - 10 SHORT-TERM BICYCLE STALLS INSTEAD OF 6 LONG-TERM AND 4 SHORT-TERM.

CONSTRUCTION TYPE: III-N
NUMBER OF STORIES: BASEMENT + 2 STORIES
MAXIMUM ALLOWABLE HEIGHT: 45'-0"
EXISTING MAXIMUM HEIGHT: 40'-5"
FIRE PROTECTION: FULLY SPRINKLERED, FIRE ALARM

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ELECTRICAL	E1.0 ELECTRICAL SYMBOLS, SPECS E1.1 ELECTRICAL PANEL SCHEDULES E1.2 ELECTRICAL ONE LINE DIAGRAM E2.0 ELECTRICAL BASEMENT POWER PLAN E2.1 ELECTRICAL FIRST FLOOR POWER PLAN E2.2 ELECTRICAL SECOND FLOOR POWER PLAN E3.0 ELECTRICAL BASEMENT LIGHTING PLAN E3.1 ELECTRICAL FIRST FLOOR LIGHTING PLAN E3.2 ELECTRICAL SECOND FLOOR LIGHTING PLAN E4.0 ELECTRICAL BASEMENT LIGHTING PLAN E4.1 ELECTRICAL FIRST FLOOR POWER PLAN E4.2 ELECTRICAL SECOND FLOOR POWER PLAN E4.3 ELECTRICAL ROOF MECHANICAL PLAN E5.0 ELECTRICAL TITLE 24

PROJECT TEAM

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ARCHITECT STAMP CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA.
PLANNING # PLN2023-00327
PERMIT #:

REVISIONS:

9-22-23 PLANNING DEPT. SUBMITTAL
10-2-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
4-22-24 PLANNING DEPT. SUBMITTAL

PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
COVER SHEET

DATE: 12-30-22
DRAWN BY: KEVIN M. MURPHY
JOB NUMBER: 22004
SHEET ___ of ___

SYMBOLS

EXISTING CONTOURS
NEW CONTOURS
EXISTING SPOT GRADE
NEW SPOT GRADE
DIRECTION OF DRAINAGE FLOW
LEVEL LINE, BENCH MARK, WORK POINT OR CONTROL POINT
DIMENSION LINE AND POINT
CENTER LINE OR FLOOR LINE
PROPERTY, BOUNDARY OR CUTLINE
MATCH LINE, SHADED SIDE IS BEING CONSIDERED
OUTLINE OF HIDDEN OBJECT, NIC ITEMS, REMOVED MATERIAL
FENCE LINE
BREAK LINE

NOTE SYMBOL SEE NUMBERED NOTES COLUMN
REVISION NUMBER REVISION CLOUD, OPTIONAL
COLUMN GRID REFERENCE, TOWARDS COLUMN LINE
ELEVATION SYMBOL, SHEET WHERE DRAWN, ELEVATION NUMBERS
LOBBY ROOM NAME ROOM NUMBER ROOM MATERIAL CODE* CEILING HEIGHT * SEE ROOM MATERIAL CODE SHEET
EQUIPMENT SCHEDULE EQUIPMENT MARK
WINDOW MARK & TYPE
DOOR MARK & TYPE

INTENT OF DRAWINGS

THE INTENT OF THE DRAWINGS AND/OR SPECIFICATIONS IS TO RECONSTRUCT THE PROPOSED BUILDING CONSTRUCTION OR MODIFICATION IN ACCORDANCE WITH THE CALIFORNIA BUILDING STANDARDS CODE, TITLE 24, CALIFORNIA CODE OF REGULATIONS SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CALIFORNIA CODE OF REGULATIONS, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY AHJ BEFORE PROCEEDING WITH THE WORK. ALL WORK ON FIRST FLOOR, NO WORK ON ROOF OR SECOND FLOOR.

DEFERRED APPROVALS

FIRE SPRINKLERS

GENERAL NOTES

- ALL WORK SHALL CONFORM TO TITLE 24 CALIFORNIA CODE OF REGULATIONS (CCR).
- CHANGES TO APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CHANGE ORDER.
- A PROJECT INSPECTOR EMPLOYED BY THE OWNER SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK.
- APPARENT DISCREPANCIES ON DRAWINGS AND/OR SPECIFICATIONS SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- ANY DIFFERENCE BETWEEN THE EXISTING CONSTRUCTION AS OBSERVED IN THE FIELD AND AS SHOWN ON THE DRAWING SHALL BE REPORTED TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING THE WORK. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND COORDINATING DIMENSIONS.
- IT SHALL BE THE RESPONSIBILITY OF GENERAL CONTRACTOR TO INSURE THAT ALL APPLICABLE SAFETY LAWS ARE STRICTLY ENFORCED AND TO MAINTAIN A SAFE CONSTRUCTION PROJECT.
- IT SHALL BE THE RESPONSIBILITY OF GENERAL CONTRACTOR TO PROVIDE SUPERVISION OF THE CONSTRUCTION WORK TO ENSURE THAT IT IS BUILT ON CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. THE ARCHITECT WILL PROVIDE ONLY PERIODIC OBSERVATION OF THE WORK. SEE NOTE 3 FOR OSHPD INSPECTION REQUIREMENTS.
- ANY DAMAGE DONE TO THE EXISTING CONSTRUCTION DURING THE COURSE OF THIS WORK SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE WITH NO ADDITIONAL COST TO THE OWNER.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

FIRE SAFETY DURING CONSTRUCTION ALTERATIONS AND DEMOLITION

- FIRE DEPARTMENT ACCESS ROADS SHALL BE ESTABLISHED AND MAINTAIN AT ALL TIMES. CFC-2019, SEC. 1410.
- FIRE DEPARTMENT WATER MAINS AND FIRE HYDRANTS SHALL BE OPERATIONAL AT ALL TIMES AND SHALL BE IN ACCORDANCE WITH CFC-2019, SECTION 508. CFC-2019, SEC. 1412.1.
- FIRE EXTINGUISHERS SHALL BE PROVIDED FOR BUILDINGS UNDER CONSTRUCTION. THE NUMBER AND TYPE OF EXTINGUISHERS SHALL BE AS REQUIRED BY THE OSHPD FIRE MARSHAL, OR LOCAL FIRE DEPARTMENT. CFC-2019, SEC. 1415.1 AND SEC. 908.
- COMBUSTIBLE DEBRIS SHALL NOT ACCUMULATE WITHIN BUILDINGS. CFC-2019, SEC. 1404.2.
- CUTTING AND WELDING OPERATIONS SHALL BE IN ACCORDANCE WITH CFC-2019, CHAPTER 25. CFC-2019, SEC. 404.6.
- SMOKING IS PROHIBITED. "NO SMOKING" SIGNS SHALL BE POSTED. CFC-2019, SEC. 1404.1.
- THE STORAGE, USE AND HANDLING OF FLAMMABLE LIQUIDS SHALL BE IN ACCORDANCE WITH CFC-2019, CHAPTER 34. STORAGE, USE AND HANDLING OF OTHER HAZARDOUS MATERIALS SHALL BE IN ACCORDANCE WITH CFC-2019, SEC. 1405.
- FIRE PROTECTION SYSTEMS SHALL BE MAINTAINED OPERATIONS AT ALL TIMES. CFC-2019, SEC. 1414.
- REQUIRED MEANS OF EGRESS COMPONENTS SHALL BE MAINTAINED IN ACCORDANCE WITH CFC-2019, CHAPTER 10. TEMPORARY EXISTING SHALL BE APPROVED BY THE OSHPD FIRE MARSHAL, OR BY THE LOCAL FIRE DEPARTMENT. CFC-2019, SEC. 1411.
- FIRE-RESISTIVE ASSEMBLIES AND CONSTRUCTION REQUIRED IN THE MEANS OF EGRESS SHALL BE MAINTAINED. CFC-2019, SEC. 1411.2.
- SMOKE DETECTORS SHALL BE COVERED OR REMOVED DURING ALTERATIONS. WHEN REQUIRED BY THE OSHPD FIRE MARSHAL OR LOCAL FIRE DEPARTMENT, HEAT DETECTORS MAY BE SUBSTITUTED FOR SMOKE DETECTORS DURING ALTERATIONS. NFPA 72-2002, SEC. 5.7.1.1.1.
- PEDESTRIANS SHALL BE PROTECTED DURING CONSTRUCTION, REMODELING AND DEMOLITION ACTIVITIES AS REQUIRED BY CHAPTER 33 OF THE CBC AND TABLE 3306.1. SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC.
- CONSTRUCTION MATERIALS AND EQUIPMENT SHALL NOT BE PLACED OR STORED SO AS TO OBSTRUCT ACCESS TO FIRE HYDRANTS, STANDPIPES, FIRE OR POLICE ALARM BOXES, CATCH BASINS OR MANHOLES. CBC 2208.1.1.
- IN BUILDINGS WHERE AN AUTOMATIC SPRINKLER SYSTEM IS REQUIRED BY THIS CODE, IT SHALL BE UNLAWFUL TO OCCUPY ANY PORTION OF A BUILDING OR STRUCTURE UNIT THE AUTOMATIC SPRINKLER SYSTEM INSTALLATION HAS BEEN TESTED AND APPROVED. CBC 3312.1, CFC 1414.1.

APPLICABLE CODES

LIST OF 2019 CALIFORNIA CODE OF REGULATIONS APPLICABLE CODES AS OF JANUARY 01, 2018:

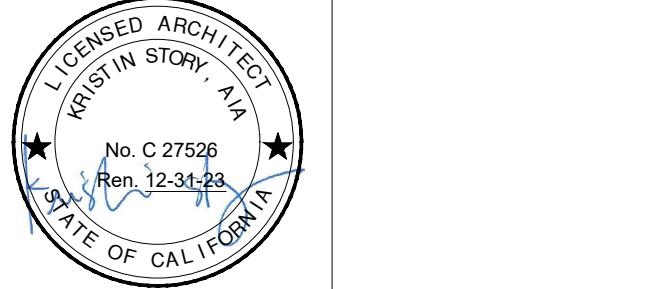
2022	CALIFORNIA ADMINISTRATIVE CODE (CAC) PART 1, TITLE 24,
2022	CALIFORNIA CODE OF REGULATIONS (CCR)
2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR BASED ON THE 2018 INTERNATIONAL BUILDING CODE (IBC)
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR BASED ON THE 2017 NATIONAL ELECTRIC CODE (NEC)
2022	CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 CCR BASED ON THE 2018 INTERNATIONAL MECHANICAL CODE (IMC)
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR BASED ON THE 2018 INTERNATIONAL PLUMBING CODE (IPC)
2022	CALIFORNIA FIRE CODE(CFC), PART 9, TITLE 24 CCR BASED ON THE 2018 INTERNATIONAL FIRE CODE (IFC)
2022	CALIFORNIA GREEN BUILDING CODE

CITY OF SANTA BARBARA MUNICIPAL CODE

THIS BUILDING IS FULLY COMPLIANT WITH 2019 CBC, SECTION 11B-202.4. REFER TO BUILDING PERMIT 16-048-DRB-SCD-LUP.

THE ZONING ORDINANCE FOR THIS PROJECT IS TITLE 30 ZONING - IN-LAND (SBMC TITLE 30).

Drawing name: C:\Users\Kevin\AppData\Local\Temp\pdp\pdp\160422004-SANSUM DIABETES RESEARCH INSTITUTE.dwg
PLOT DATE: Apr 22, 2024 - 9:42am
PLOT BY: Kevin



AGENCY APPROVAL: CITY OF SANTA BARBARA. PLANNING #: PLN2023-00327 PERMIT #:

MILESTONE DATES:
 9-22-23 PLANNING DEPT. SUBMITTAL
 10-23-23 PLANNING DEPT. SUBMITTAL
 10-19-23 PLANNING DEPT. SUBMITTAL
 4-22-24 PLANNING DEPT. SUBMITTAL

REVISIONS:

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
 2219 BATH STREET
 SANTA BARBARA, CA 93105

SHEET TITLE:
LIFE SAFETY PLANS

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET of
A1.1

MEANS OF EGRESS ILLUMINATION

EXIT SIGNS:
 1. EXIT SIGNS SHALL BE INTERNALLY OR EXTERNALLY ILLUMINATED.
 2. EXIT SIGNS ILLUMINATED BY AN EXTERNAL SOURCE SHALL HAVE AN INTENSITY OF NOT LESS THAN 5 FOOT-CANDLES (54 LUX).
 3. INTERNALLY ILLUMINATED SIGNS SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND SECTION 2702.
 4. EXIT SIGNS SHALL BE ILLUMINATED AT ALL TIMES. (1011.3)
 5. EXIT SIGNS SHALL BE CONNECTED TO AN EMERGENCY POWER SYSTEM THAT WILL PROVIDE AN ILLUMINATION OF NOT LESS THAN 90 MIN. IN CASE OF PRIMARY POWER LOSS (1011.6.3)
 6. THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED.
 7. THE MEANS OF EGRESS, INCLUDING THE EXIT DISCHARGE, SHALL BE ILLUMINATED AT ALL TIMES THE BUILDING SPACE SERVED BY THE MEANS OF EGRESS IS OCCUPIED.
 8. THE MEANS OF EGRESS ILLUMINATION LEVEL SHALL NOT BE LESS THAN 1 FOOT-CANDLE AT THE WALKING SURFACE.
 9. EVERY ROOM OR SPACE WHICH IS USED FOR ASSEMBLY, CLASSROOM, DINING, DRINKING, OR SIMILAR PURPOSES HAVING AN OCCUPANT LOAD OF 50 OR MORE SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR EXIT ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR THE OWNER'S AUTHORIZED AGENT. PER CBC 1008.3
 10. SIGNS SHALL COMPLY WITH SECTION 11B-703 WHERE BOTH VISUAL AND TACTILE CHARACTERS ARE REQUIRED, EITHER ONE SIGN WITH BOTH VISUAL AND TACTILE CHARACTERS, OR TWO SEPARATE SIGNS, ONE VISUAL AND ONE WITH TACTILE CHARACTERS, SHALL BE PROVIDED.
 11. THE POWER SUPPLY FOR MEANS OF EGRESS ILLUMINATION SHALL NORMALLY BE PROVIDED BY THE PREMISES ELECTRICAL SUPPLY. IN THE EVENT OF POWER SUPPLY FAILURE, AN EMERGENCY ELECTRICAL SYSTEM SHALL AUTOMATICALLY ILLUMINATE THE FOLLOWING AREAS:
 a. AISLES AND UNENCLOSED EGRESS STAIRWAYS IN ROOMS AND SPACES THAT REQUIRE TWO OR MORE MEANS OF EGRESS;
 b. CORRIDORS, EXIT ENCLOSURE AND EXIT PASSAGEWAYS IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS;
 c. EXTERIOR EGRESS COMPONENTS AT OTHER THAN THE LEVEL OF EXIT DISCHARGE UNTIL EXIT DISCHARGE IS ACCOMPLISHED FOR BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS;
 d. INTERIOR EXIT DISCHARGE ELEMENTS, AS PERMITTED IN SECTION 1027.1, IN BUILDINGS REQUIRED TO HAVE TWO OR MORE EXITS.
 e. EXTERIOR LANDINGS, AS REQUIRED BY SECTION 1006.1.6, FIRE EXIT DISCHARGE DOORWAYS IN BUILDINGS IS REQUIRED TO HAVE TWO OR MORE EXITS.

FIRE LIFE SAFETY LEGEND

- ACCESSIBLE PATH OF TRAVEL
- (N) SELF ILLUMINATED EXIT SIGN WITH BATTERY BACKUP
- ROOM NAME
- GROUP TYPE
- SF
- OCC. LOAD
- OCC. NUMBER

FIRE LIFE SAFETY NOTES

DOOR NOTES:
 1. ALL EXITS ARE TO BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR A SPECIAL KNOWLEDGE.
 2. PROVIDE SIGN WITH "H" HIGH LETTERS ON CONTRASTING BACKGROUND AT DOOR TRANSOME TO READ "THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED." AT ALL DESIGNATED EXIT DOORS.
 3. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS FOR EXTERIOR DOORS AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT THE RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS, WHEN FIRE DOORS ARE REQUIRED THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MINIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 POUNDS.
 FIRE PREVENTION NOTES:
 1. FIRE EXTINGUISHERS MUST BE INSTALLED PER FIRE DEPARTMENT FIRE EXTINGUISHER POLICY. START THE PLACEMENT OF FIRE EXTINGUISHER NEAR THE EXTERIOR EXIT DOORS. MOUNT THE FIRE EXTINGUISHER IN A VISIBLE AND ACCESSIBLE LOCATION, 3'-0" TO 5'-0" ABOVE THE FINISH FLOOR TO THE HANDLE. BUILDINGS WITH MULTIPLE FLOORS MUST HAVE AT LEAST ONE FIRE EXTINGUISHER PER FLOOR. LIGHT HAZARD (OFFICES, CLASSROOMS, CHURCHES, ASSEMBLY ROOMS, RESIDENTIAL) OCCUPANCIES REQUIRE "2A10BC" FIRE EXTINGUISHERS. THE MAXIMUM COVERAGE AREA IS 5,000 SQ. FT. PER EXTINGUISHER AND THE MAXIMUM TRAVEL DISTANCE IS 75 FEET. ORDINARY HAZARD (RETAIL STORAGE AND DISPLAY, LIGHT MANUFACTURING, WAREHOUSE WITHOUT HPS) OCCUPANCIES REQUIRE "2ABC" FIRE EXTINGUISHERS. THE MAXIMUM COVERAGE IS 3,000 SQ. FT. PER EXTINGUISHER AND THE MAXIMUM TRAVEL DISTANCE IS 75 FEET. CLASS "K" FIRE EXTINGUISHER SHALL BE INSTALLED WITHIN 30 FEET OF COMMERCIAL FOOD HEAT-PROCESSING EQUIPMENT, AS MEASURED ALONG AN UNOBSTRUCTED PATH OF TRAVEL.

OCCUPANCY CALCULATION - REQUIRED EGRESS WIDTH (SECTION 1105):
 250 OCCUPANTS
 1-500 OCCUPANTS = 3 EXITS REQUIRED PER FLOOR
 EGRESS WIDTH PROVIDED = 36" + 72" + 36" = 144"

EXISTING STAIR LOCATION
 DIAGONAL DISTANCE = 119'
 1/3 DIAGONAL DISTANCE W/ SPRINKLER = 40'
 60' PROVIDED DISTANCE = 40'; SPACE COMPLIES

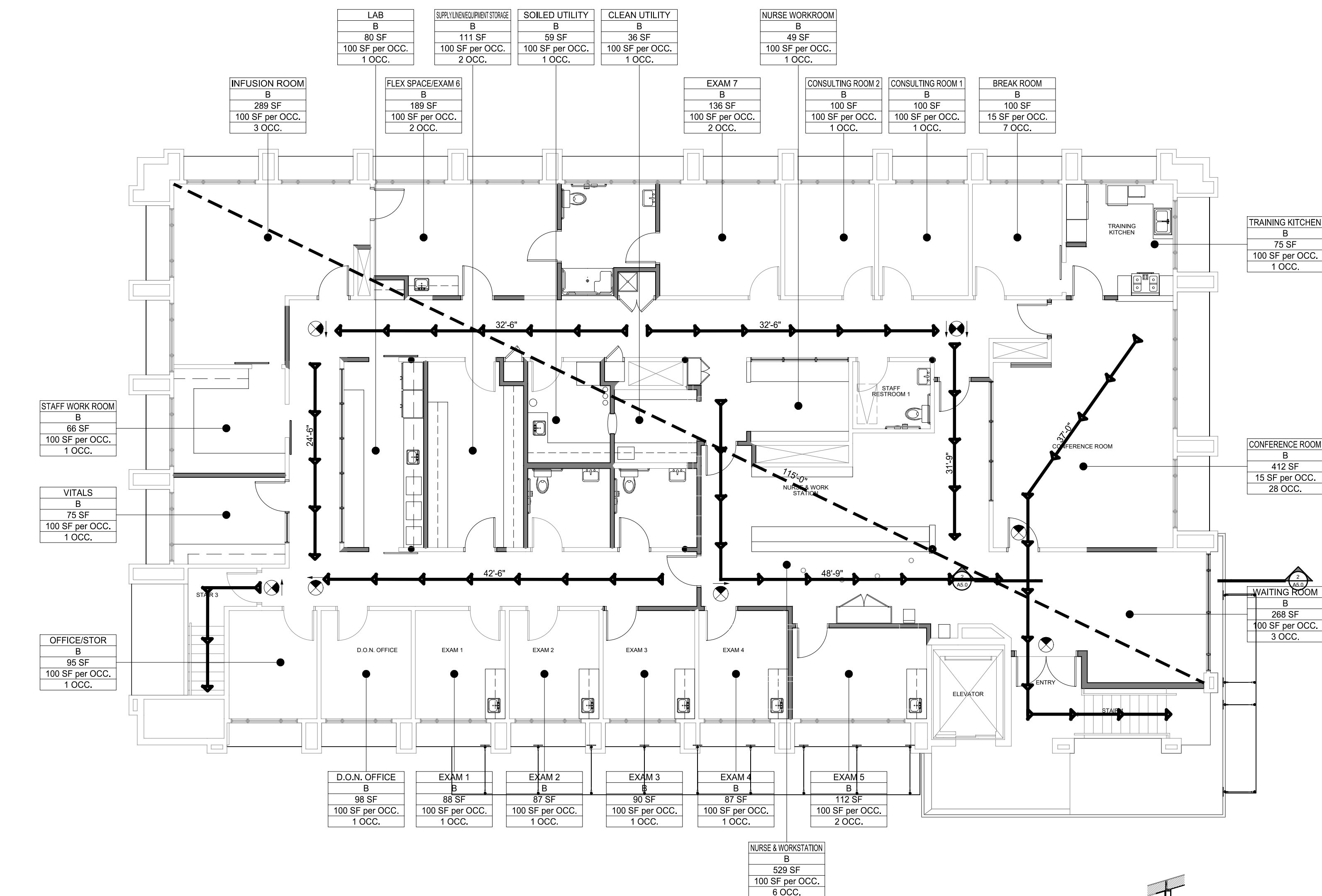
EXIT ACCESS TRAVEL DISTANCE ALLOWED FOR B-SPRINKLERED IS 250 FT

OCCUPANCY SCHEDULE

BASEMENT		SF	OCC. TYPE	OCC. LOAD FACTOR	OCC. COUNT
SUMP PUMP	B	29	B	100	1
ELEV. EQUIP.	B	29	B	100	1
DXA SCANNER RM	B	216	B	100	3
LAB	B	122	B	100	2
CLINICAL RESEARCH AREA	B	962	A2	100	10
FLEX SPACE 1	B	200	B	100	2
RESEARCH STAFF	B	115	B	100	2
MECHANICAL	B	90	B	100	1
BIOHAZARD STORAGE	B	70	B	100	1
FREEZER FARM	B	128	B	100	2
STORAGE	B	391	B	300	2
RECORDS STORAGE	B	158	B	300	1
FLEX SPACE 2	B	592	B	100	6
NON ADA RESTROOM	B	69	B	100	1
ACCESSIBLE RESTROOM	B	82	B	100	1
STORAGE	B	38	B	100	1
OFFICE	B	110	B	100	2
SHIPPING/RECEIVING	B	171	B	100	1
LAUNDRY	B	60	B	100	1
SERVER/TELEPHONE/ELECTRIC RM	B	238	B	100	1
STOCK ROOM/LOCAL SPECIFIC STORAGE	B	298	B	100	1
KITCHEN	B	357	B	100	4
MAIL ROOM	B	48	B	100	1
TOTALS		4,529			48

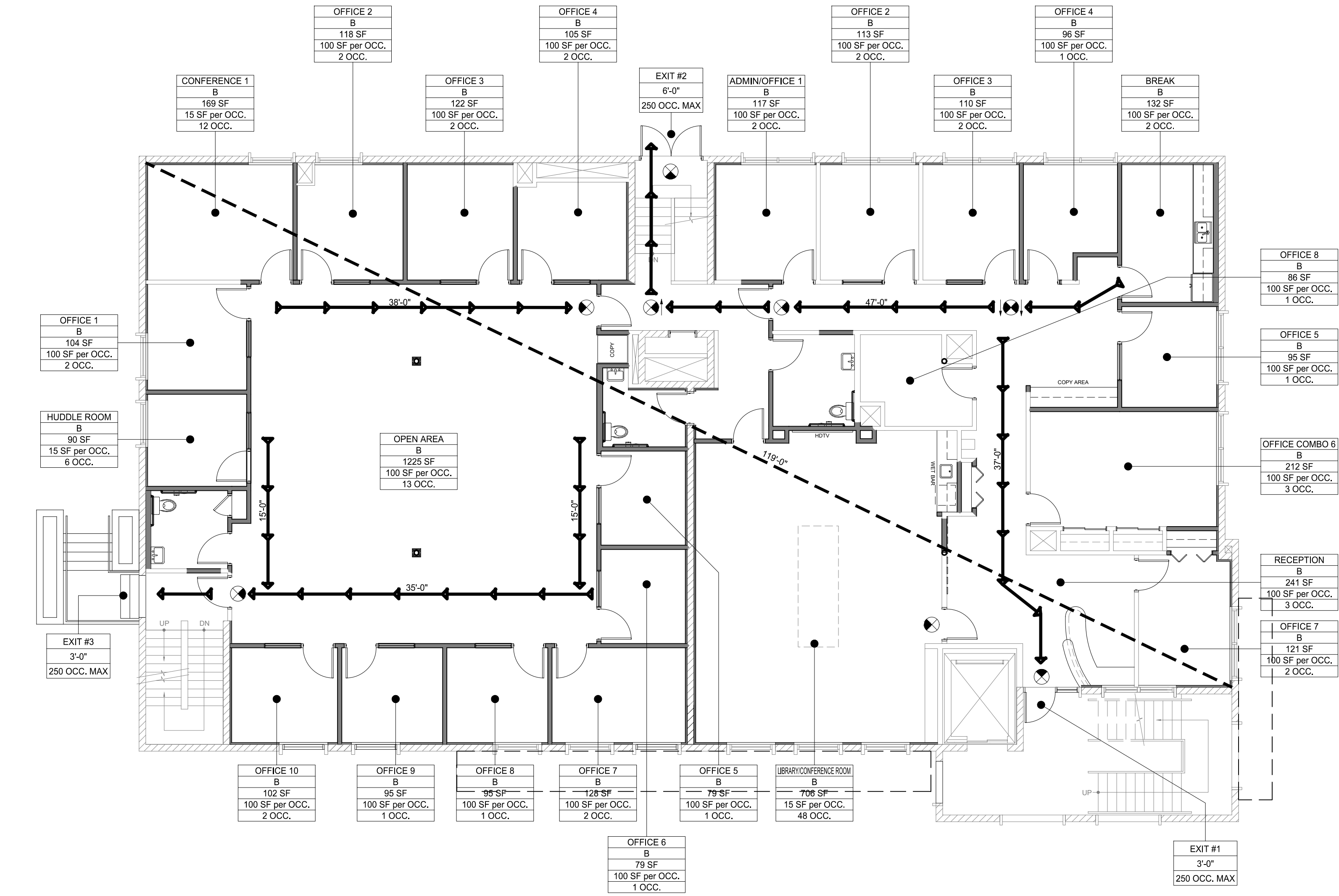
FIRST FLOOR		SF	OCC. TYPE	OCC. LOAD FACTOR	OCC. COUNT
OFFICE 7	B	121	B	100	2
RECEPTION	B	241	B	100	3
OFFICE COMBO 6	B	212	B	100	3
OFFICE 5	B	95	B	100	1
OFFICE 8	B	88	B	100	1
BREAK	B	132	B	100	2
OFFICE 4	B	98	B	100	1
OFFICE 3	B	150	B	100	2
OFFICE 2	B	118	B	100	2
CONFERENCE 1	B	169	B	15	12
OFFICE 1	B	104	B	100	2
OFFICE 4	B	105	B	100	2
OFFICE 3	B	122	B	100	2
OFFICE 2	B	118	B	100	2
CONFERENCE 1	B	169	B	15	12
OFFICE 1	B	104	B	100	2
MIDDLE ROOM	B	90	B	15	6
OFFICE 10	B	102	B	100	2
OFFICE 9	B	95	B	100	1
OFFICE 8	B	95	B	100	1
OFFICE 7	B	128	B	100	2
OFFICE 6	B	79	B	100	1
OFFICE 5	B	79	B	100	1
LIBRARY/CONFERENCE ROOM	B	706	B	100	48
TOTALS		3,315			101

SECOND FLOOR		SF	OCC. TYPE	OCC. LOAD FACTOR	OCC. COUNT
WAITING ROOM	B	258	B	100	3
CONFERENCE ROOM	B	412	B	15	28
TRAINING KITCHEN	B	75	B	100	1
BREAK ROOM	B	100	B	15	7
CONSULTING ROOM 1	B	100	B	100	1
CONSULTING ROOM 2	B	100	B	100	1
MIDDLE HOURS ROOM	B	49	B	100	1
EXAM 7	B	138	B	100	2
CLEAN UTILITY	B	36	B	100	1
SOILED UTILITY	B	59	B	100	1
SUPPLY LINEN/EQUIPMENT STORAGE	B	111	B	100	2
FLEX SPACE/EXAM 6	B	189	B	100	2
LAB	B	80	B	100	1
INFUSION ROOM	B	289	B	100	3
STAFF WORK ROOM	B	66	B	100	1
VITALS	B	75	B	100	1
OFFICE 6	B	95	B	100	1
D.O.N. OFFICE	B	98	B	100	1
EXAM 1	B	88	B	100	1
EXAM 2	B	87	B	100	1
EXAM 3	B	90	B	100	1
EXAM 4	B	87	B	100	1
NURSE & WORK STATION	B	529	B	100	6
EXAM 5	B	112	B	100	2
TOTALS		3,331			70
GRAND TOTALS		11,176			219



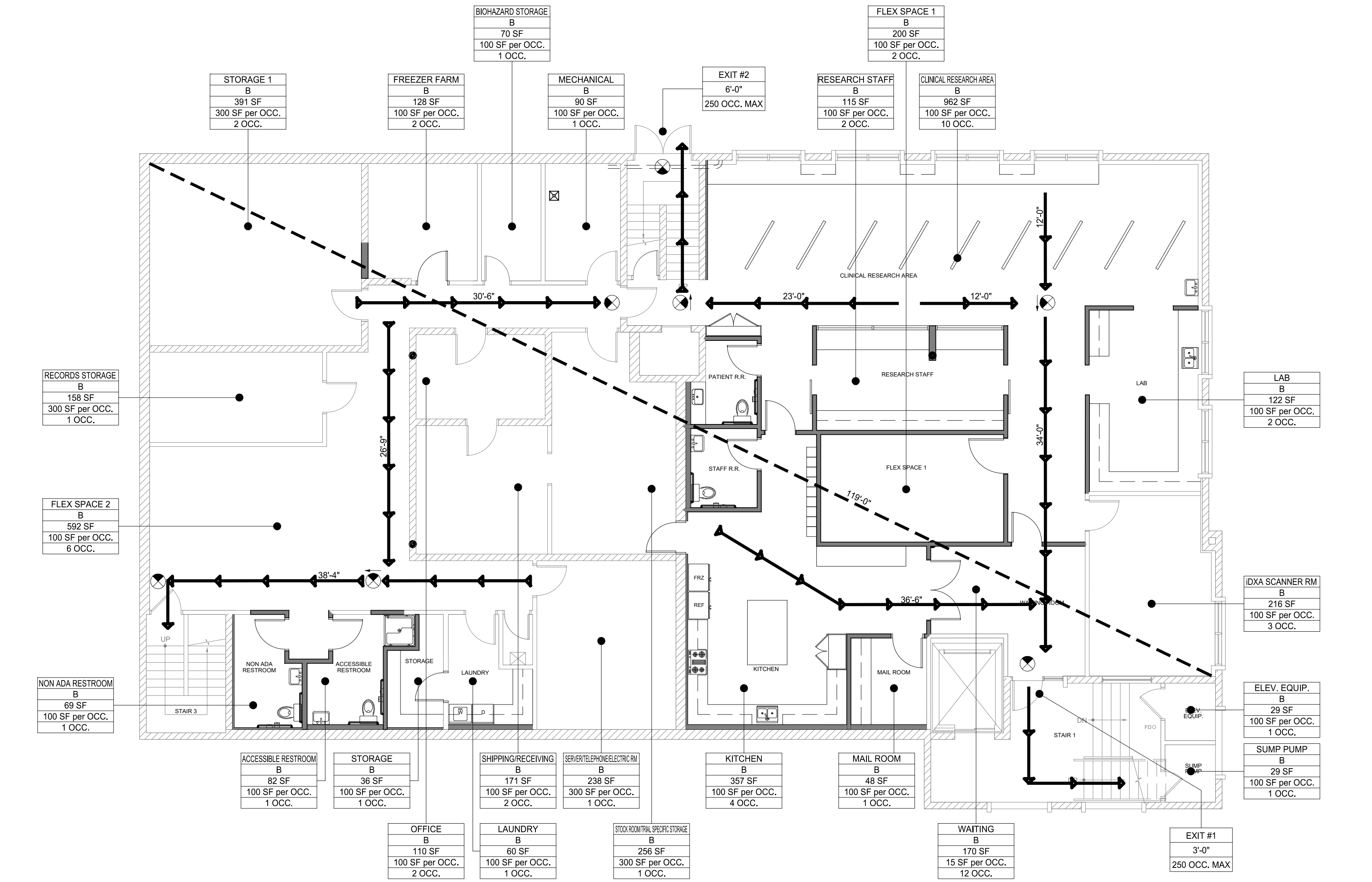
SECOND FLOOR LIFE SAFETY PLAN

SCALE: 1/16"=1'-0"



FIRST FLOOR LIFE SAFETY PLAN

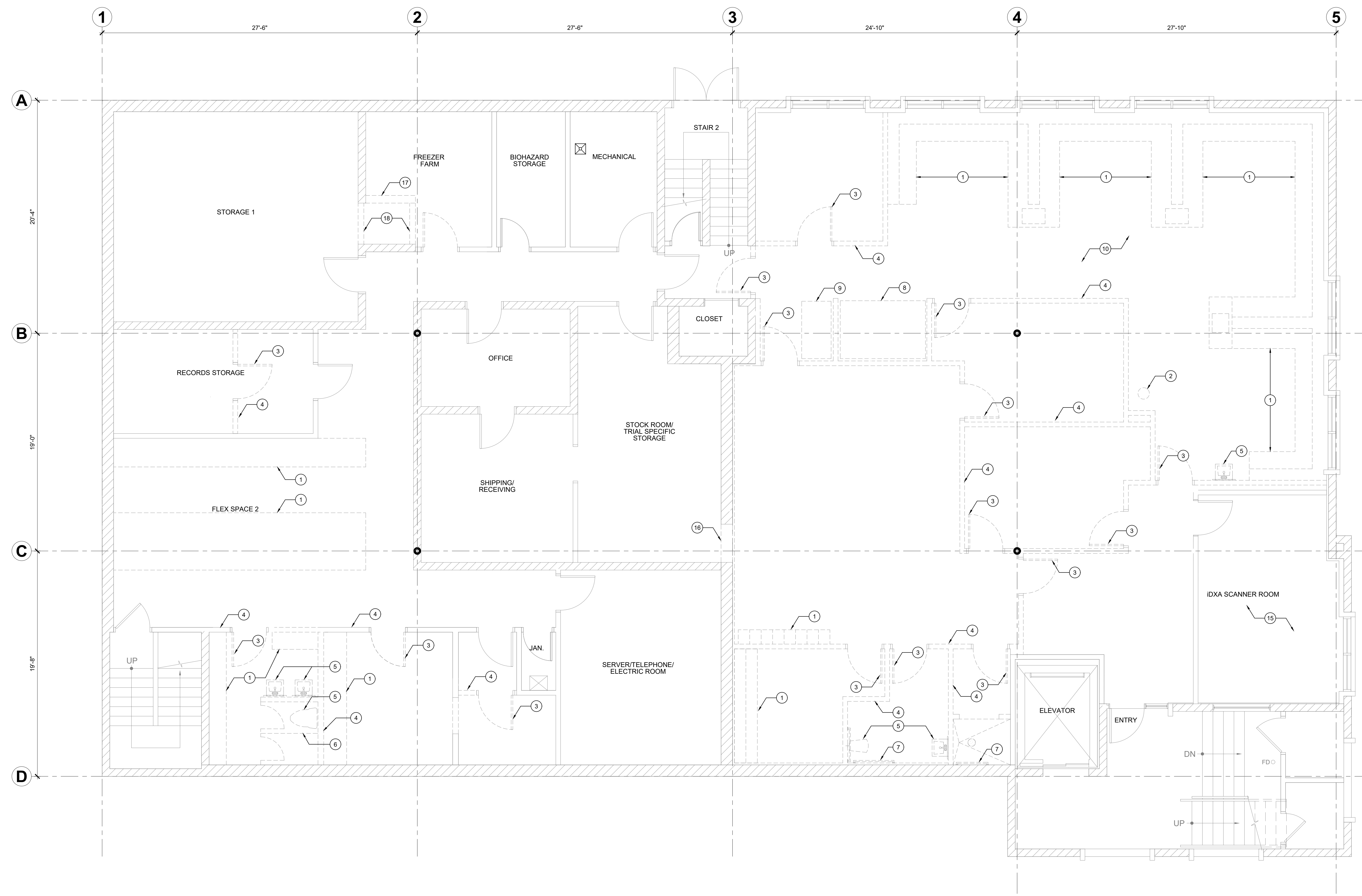
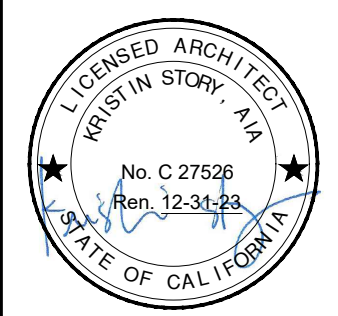
SCALE: 1/16"=1'-0"



BASEMENT LIFE SAFETY PLAN

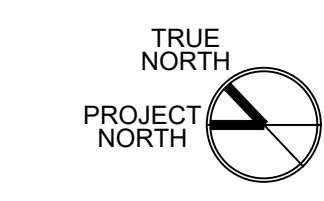


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 PLOT DATE: Apr 22, 2024 - 9:42am
 PLOT BY: Kevin



BASEMENT DEMOLITION PLAN

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



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PLOT DATE: Apr 22, 2024 - 9:43am
PLOT BY: Kevin

NUMBERED NOTES

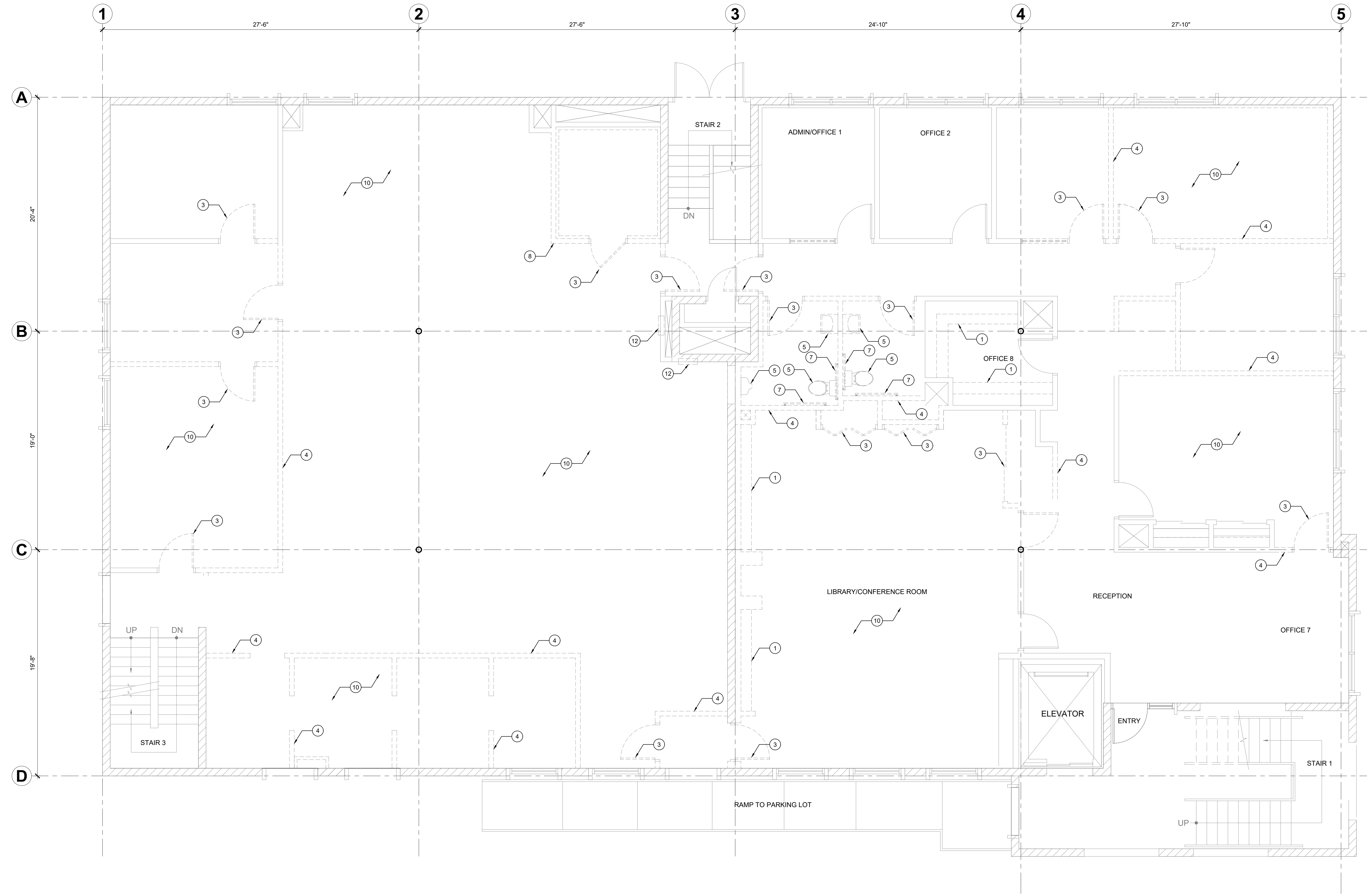
- | | |
|---|--|
| 1 REMOVE (E) BUILT-IN CASEWORK AND CAP ANY UTILITIES TO NEAREST "J" BOX. | 16 REMOVE (E) CMU WALL TO CREATE OPENING FOR (N) DOOR. SEE DOOR SCHEDULE SHEET A3.0. |
| 2 REMOVE (E) EYE WASH STATION. CAP ALL PLUMBING LINES. | 17 REMOVE (E) CMU WALL. |
| 3 REMOVE (E) DOOR. CONTRACTOR SHALL PRESERVE DOORS AND SALVAGE DOOR HARDWARE. | 18 REMOVE (E) CURBS AND PATCH TO CREATE LEVEL FLOOR TO MATCH EXISTING. |
| 4 REMOVE (E) WALLS. | |
| 5 REMOVE (E) PLUMBING FIXTURES. CAP ALL PLUMBING LINES. | |
| 6 REMOVE (E) BATHROOM STALLS. | |
| 7 REMOVE (E) GRAB BARS. | |
| 8 REMOVE (E) WALK-IN REFRIGERATOR. | |
| 9 REMOVE (E) HOOD. | |
| 10 REMOVE (E) FLOORING AND BASE. | |
| 11 REMOVE (E) WINDOW. | |
| 12 REMOVE (E) ELECTRICAL PANEL. | |
| 13 REMOVE (E) FLOOR TILE AND GROUT. | |
| 14 REMOVE (E) EXTERIOR PLASTER FROM WALLS. | |
| 15 PROTECT CONTENTS OF ROOM DURING CONSTRUCTION. | |

GENERAL NOTES

- FIELD VERIFY (E) CONDITIONS PRIOR TO START OF ANY WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- NOTIFY OWNER OF ANY OUTAGES OR DISCONNECTS A MINIMUM OF 48 HOURS IN ADVANCE.
- ALL SMOKE ALARM AND FIRE SPRINKLERS TO REMAIN. PROTECT DURING CONSTRUCTION.
- ALL PERMANENT EXPOSED EXTERIOR STEEL SHALL BE GALVANIZED.
- ALL VTRS TO REMAIN UNO.
- ALL (E) PIPING, CONDUIT, PANELS AND EQUIPMENT TO BE PROTECTED AND MAINTAINED UNO. DURING CONSTRUCTION.
- ALL (E) ROOF AND ROOF OVERFLOW DRAINS TO REMAIN. PROTECT AND KEEP CLEAN AND FREE OF DEBRIS AND IN GOOD WORKING ORDER.
- (E) CLASS A PVC SINGLE PLY ROOF TO REMAIN. PROTECT DURING CONSTRUCTION.
- ALL WORK SHALL BE FINISHED (UNO) IN ACCORDANCE WITH PAINT SPECIFICATIONS.
- AT ALL AREAS OF WORK, PATCHED WALL OR CEILING, PAINT ENTIRE WALL OR CEILING.
- TEMPORARY CONSTRUCTION BARRIERS SHALL BE REQUIRED TO CONCEAL WORK IN COMMON OR FINISHED AREAS WHERE APPLICABLE.
- AT (E) OR (N) CONCRETE FLOORS, PROVIDE "ARDEX K 15" SELF LEVELER ON ENTIRE SPACE (FLOAT ENTIRE FLOOR) IN PREPARATION FOR NEW FLOORING.
- ALL EXPOSED (E) STUD WALLS OR ANY (N) INTERIOR OR EXTERIOR WALLS SHALL BE INSULATED WITH ACOUSTIC BATT INSULATION.
- ALL EXTERIOR ROOFTOP DUCT WORK SHALL BE PAINTED TO MATCH ROOF COLOR.

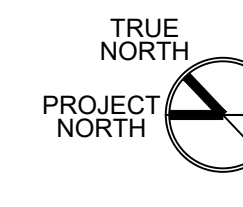
LEGEND

- | | |
|--|---|
| | EXISTING MASONRY WALL TO REMAIN |
| | EXISTING 2x STUD WALL TO REMAIN |
| | NEW 2x STUD WALL, NON-RATED |
| | NEW 1-HR RATED 2x STUD WALL PER UL U305 |
| | EXISTING TO BE REMOVED |



FIRST FLOOR DEMOLITION PLAN

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



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 PLOT DATE: Apr 22, 2024 - 9:43am
 PLOT BY: Kevin

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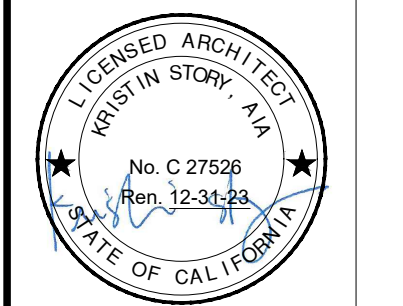
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Electrical Engineering Lighting Design

ARCHITECT STAMP CONSULTANT STAMP



AGENCY APPROVAL: CITY OF SANTA BARBARA.
PLANNING # PLN2023-00327
PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
10-2-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
4-22-24 PLANNING DEPT. SUBMITTAL

REVISIONS:

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NUMBERED NOTES

- 1 REMOVE (E) BUILT-IN CASEWORK AND CAP ANY UTILITIES TO NEAREST "J" BOX.
- 2 REMOVE (E) EYE WASH STATION. CAP ALL PLUMBING LINES.
- 3 REMOVE (E) DOOR. CONTRACTOR SHALL PRESERVE DOORS AND SALVAGE DOOR HARDWARE.
- 4 REMOVE (E) WALLS.
- 5 REMOVE (E) PLUMBING FIXTURES. CAP ALL PLUMBING LINES.
- 6 REMOVE (E) BATHROOM STALLS.
- 7 REMOVE (E) GRAB BARS.
- 8 REMOVE (E) WALK-IN REFRIGERATOR.
- 9 REMOVE (E) HOOD.
- 10 REMOVE (E) FLOORING AND BASE.
- 11 REMOVE (E) WINDOW.
- 12 REMOVE (E) ELECTRICAL PANEL.
- 13 REMOVE (E) FLOOR TILE AND GROUT.
- 14 REMOVE (E) EXTERIOR PLASTER FROM WALLS.
- 15 PROTECT CONTENTS OF ROOM DURING CONSTRUCTION.

GENERAL NOTES

1. FIELD VERIFY (E) CONDITIONS PRIOR TO START OF ANY WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. NOTIFY OWNER OF ANY OUTAGES OR DISCONNECTS A MINIMUM OF 48 HOURS IN ADVANCE.
3. ALL SMOKE ALARM AND FIRE SPRINKLERS TO REMAIN. PROTECT DURING CONSTRUCTION.
4. ALL PERMANENT EXPOSED EXTERIOR STEEL SHALL BE GALVANIZED.
5. ALL VTRS TO REMAIN UNO.
6. ALL (E) PIPING, CONDUIT, PANELS AND EQUIPMENT TO BE PROTECTED AND MAINTAINED UNO. DURING CONSTRUCTION.
7. ALL (E) ROOF AND ROOF OVERFLOW DRAINS TO REMAIN. PROTECT AND KEEP CLEAN AND FREE OF DEBRIS AND IN GOOD WORKING ORDER.
8. (E) CLASS A PVC SINGLE PLY ROOF TO REMAIN. PROTECT DURING CONSTRUCTION.
9. ALL WORK SHALL BE FINISHED (UNO) IN ACCORDANCE WITH PAINT SPECIFICATIONS.
10. AT ALL AREAS OF WORK, PATCHED WALL OR CEILING, PAINT ENTIRE WALL OR CEILING.
11. TEMPORARY CONSTRUCTION BARRIERS SHALL BE REQUIRED TO CONCEAL WORK IN COMMON OR FINISHED AREAS WHERE APPLICABLE.
12. AT (E) OR (N) CONCRETE FLOORS, PROVIDE "ARDEX K 15" SELF LEVELER ON ENTIRE SPACE (FLOAT ENTIRE FLOOR) IN PREPARATION FOR NEW FLOORING.
13. ALL EXPOSED (E) STUD WALLS OR ANY (N) INTERIOR OR EXTERIOR WALLS SHALL BE INSULATED WITH ACOUSTIC BATT INSULATION.
14. ALL EXTERIOR ROOFTOP DUCT WORK SHALL BE PAINTED TO MATCH ROOF COLOR.

LEGEND

- EXISTING MASONRY WALL TO REMAIN
- EXISTING 2x STUD WALL TO REMAIN
- NEW 2x STUD WALL, NON-RATED
- NEW 1-HR RATED 2x STUD WALL PER UL U305
- EXISTING TO BE REMOVED

PROJECT TITLE:

SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
FIRST FLOOR DEMOLITION PLAN

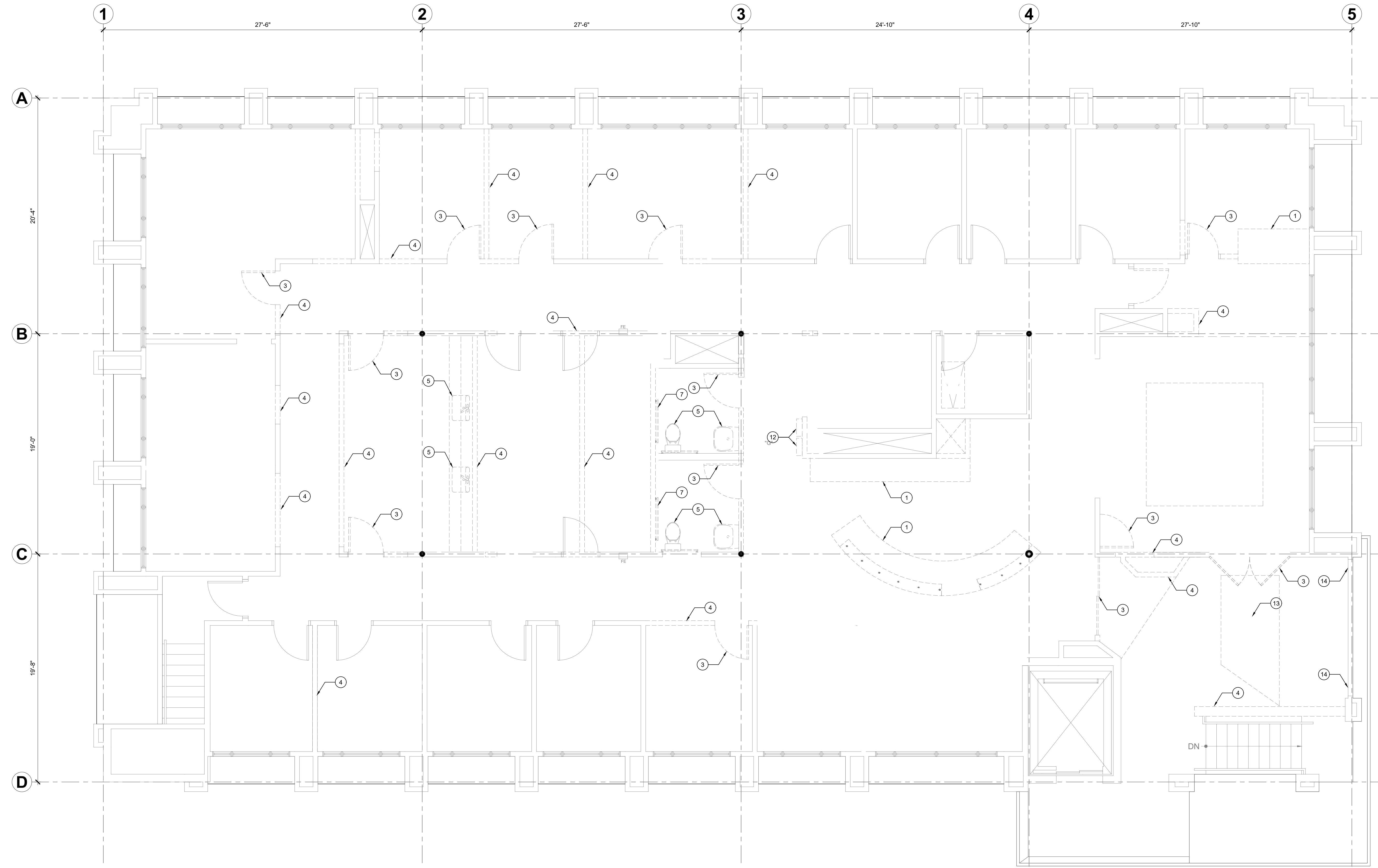
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET ___ of ___

A2.1



SECOND FLOOR DEMOLITION PLAN

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

NUMBERED NOTES

- 1 REMOVE (E) BUILT-IN CASEWORK AND CAP ANY UTILITIES TO NEAREST "J" BOX.
- 2 REMOVE (E) EYE WASH STATION. CAP ALL PLUMBING LINES.
- 3 REMOVE (E) DOOR. CONTRACTOR SHALL PRESERVE DOORS AND SALVAGE DOOR HARDWARE.
- 4 REMOVE (E) WALLS.
- 5 REMOVE (E) PLUMBING FIXTURES. CAP ALL PLUMBING LINES.
- 6 REMOVE (E) BATHROOM STALLS.
- 7 REMOVE (E) GRAB BARS.
- 8 REMOVE (E) WALK-IN REFRIGERATOR.
- 9 REMOVE (E) HOOD.
- 10 REMOVE (E) FLOORING AND BASE.
- 11 REMOVE (E) WINDOW.
- 12 REMOVE (E) ELECTRICAL PANEL.
- 13 REMOVE (E) FLOOR TILE AND GROUT.
- 14 REMOVE (E) EXTERIOR PLASTER FROM WALLS.
- 15 PROTECT CONTENTS OF ROOM DURING CONSTRUCTION.

GENERAL NOTES

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LEGEND

- EXISTING MASONRY WALL TO REMAIN
- EXISTING 2x STUD WALL TO REMAIN
- NEW 2x STUD WALL, NON-RATED

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ME
EC
MECHANICAL
ENGINEERING
CONSULTANTS
INC.

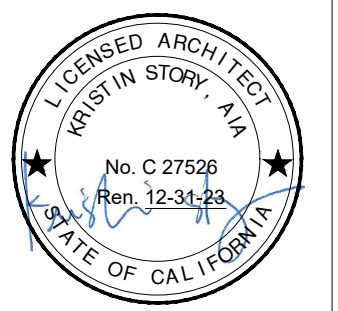
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Electrical Engineering Lighting Design

ARCHITECT STAMP CONSULTANT STAMP



AGENCY APPROVAL: CITY OF SANTA BARBARA.
PLANNING # PLN2023-00327
PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
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PROJECT TITLE:

**SANSUM DIABETES
RESEARCH
INSTITUTE**
2219 BATH STREET
SANTA BARBARA, CA
93105

SHEET TITLE:
SECOND FLOOR DEMOLITION PLAN

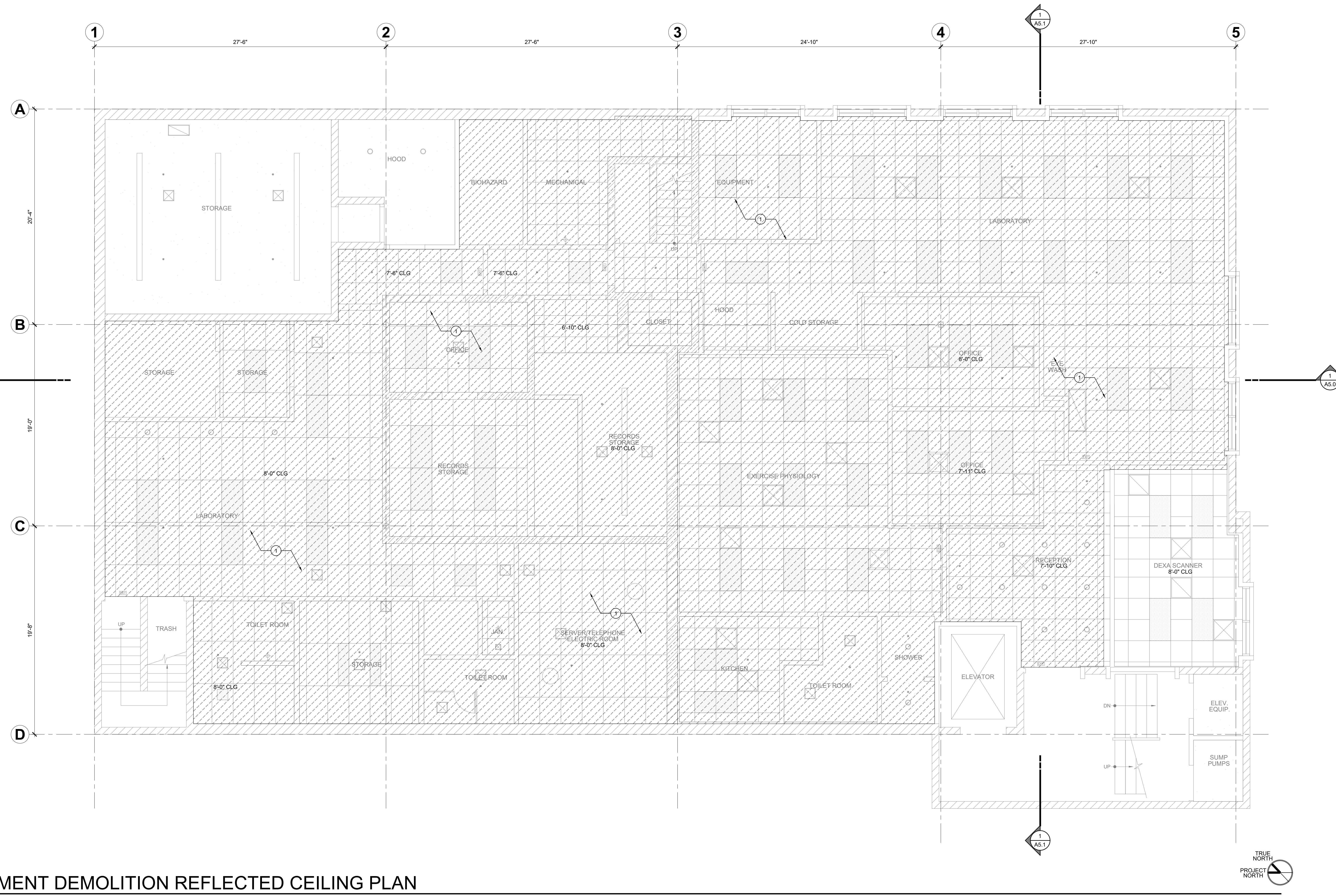
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET ___ of ___

A2.2



BASEMENT DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

NUMBERED NOTES

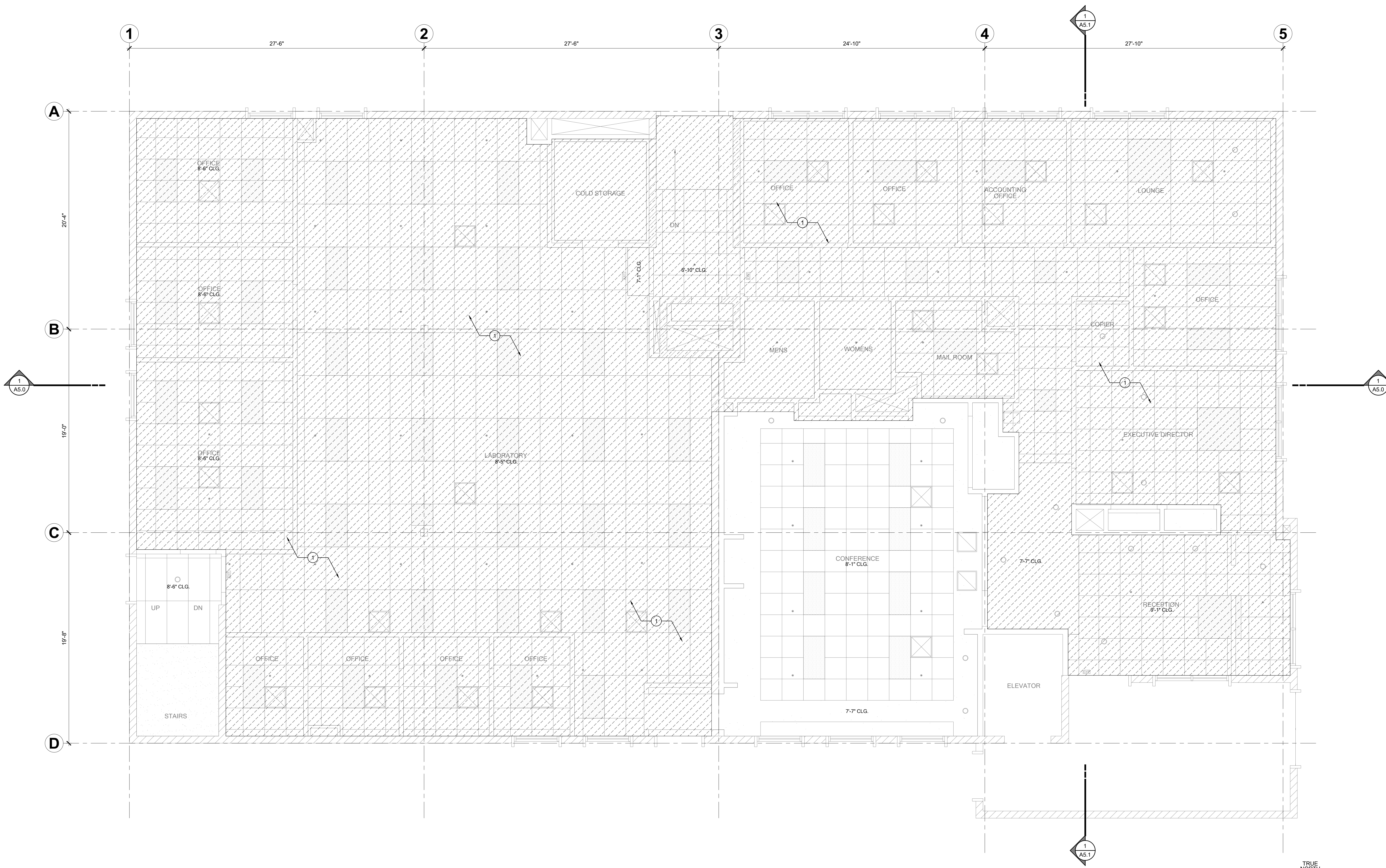
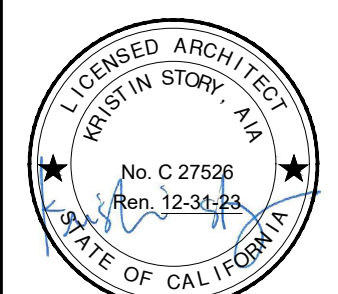
- 1 REMOVE ALL (E) CEILINGS, MECHANICAL DUCTWORK, AND LIGHTING IN THE HATCHED ARE SHOWN
- 2
- 3
- 4
- 5

GENERAL NOTES

1. FIELD VERIFY (E) CONDITIONS PRIOR TO START OF ANY WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
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14. ALL EXTERIOR ROOFTOP DUCT WORK SHALL BE PAINTED TO MATCH ROOF COLOR.

LEGEND

AREA OF CEILING DEMOLITION TO INCLUDE: SUSPENDED CEILING SYSTEM, LIGHTING, AND MECHANICAL SYSTEMS. DUCTWORK TO REMAIN	MECHANICAL SUPPLY AIR GRILL - SEE SHEET M-1.3
2x4' SUSPENDED CEILING LIGHT	MECHANICAL RETURN AIR GRILL - SEE SHEET M-1.3
VODE 707-ZZ LED LIGHT	MECHANICAL EXHAUST AIR GRILL - SEE SHEET M-1.3
4" DIA. RECESSED LIGHT	GYPSUM BOARD CEILING
WALL SURFACE MOUNTED LIGHT	(E) GYPSUM BOARD CEILING TO REMAIN
LIGHTED EXIT SIGN	(E) PLASTER CEILING TO REMAIN
FIRE SPRINKLER	
(E) 6" DIA. RECESSED LIGHT	
(E) 18" DIAMETER PENDANT LIGHT	
(E) 2x4' SUSPENDED CEILING LIGHT	



FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN

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

NUMBERED NOTES

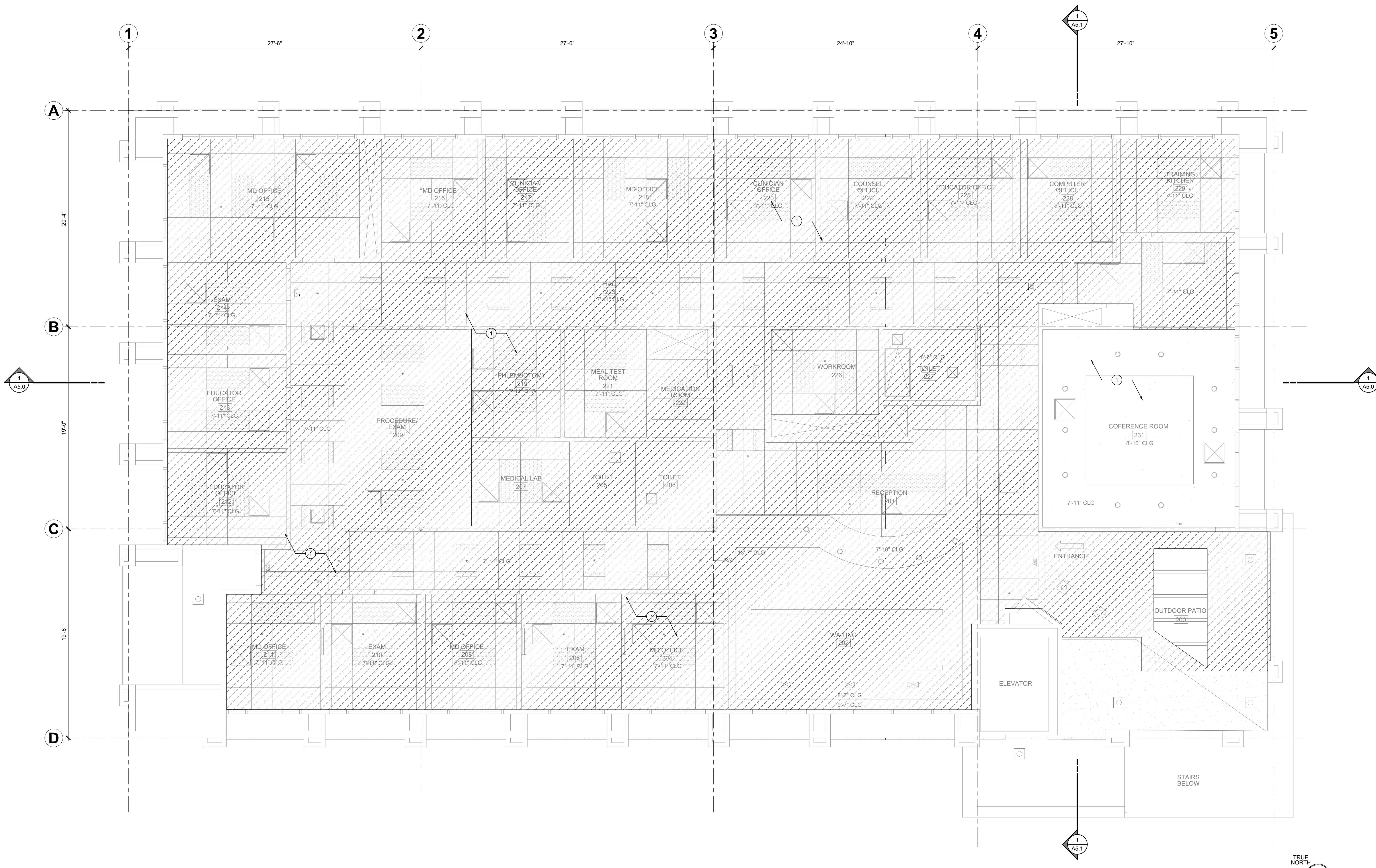
- 1 REMOVE ALL (E) CEILINGS, MECHANICAL DUCTWORK, AND LIGHTING IN THE HATCHED ARE SHOWN
- 2
- 3
- 4
- 5

GENERAL NOTES

1. FIELD VERIFY (E) CONDITIONS PRIOR TO START OF ANY WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. NOTIFY OWNER OF ANY OUTAGES OR DISCONNECTS A MINIMUM OF 48 HOURS IN ADVANCE.
3. ALL SMOKE ALARM AND FIRE SPRINKLERS TO REMAIN. PROTECT DURING CONSTRUCTION.
4. ALL PERMANENT EXPOSED EXTERIOR STEEL SHALL BE GALVANIZED.
5. ALL VTRS TO REMAIN UNO.
6. ALL (E) PIPING, CONDUIT, PANELS AND EQUIPMENT TO BE PROTECTED AND MAINTAINED UNO. DURING CONSTRUCTION.
7. ALL (E) ROOF AND ROOF OVERFLOW DRAINS TO REMAIN. PROTECT AND KEEP CLEAN AND FREE OF DEBRIS AND IN GOOD WORKING ORDER.
8. (E) CLASS A PVC SINGLE PLY ROOF TO REMAIN. PROTECT DURING CONSTRUCTION.
9. ALL WORK SHALL BE FINISHED (UNO) IN ACCORDANCE WITH PAINT SPECIFICATIONS.
10. AT ALL AREAS OF WORK, PATCHED WALL OR CEILING, PAINT ENTIRE WALL OR CEILING.
11. TEMPORARY CONSTRUCTION BARRIERS SHALL BE REQUIRED TO CONCEAL WORK IN COMMON OR FINISHED AREAS WHERE APPLICABLE.
12. AT (E) OR (N) CONCRETE FLOORS, PROVIDE "ARDEX K 15" SELF LEVELER ON ENTIRE SPACE (FLOAT ENTIRE FLOOR) IN PREPARATION FOR NEW FLOORING.
13. ALL EXPOSED (E) STUD WALLS OR ANY (N) INTERIOR OR EXTERIOR WALLS SHALL BE INSULATED WITH ACOUSTIC BATT INSULATION.
14. ALL EXTERIOR ROOFTOP DUCT WORK SHALL BE PAINTED TO MATCH ROOF COLOR.

LEGEND

	AREA OF CEILING DEMOLITION TO INCLUDE: SUSPENDED CEILING SYSTEM, LIGHTING, AND MECHANICAL SYSTEMS, DUCTWORK TO REMAIN		MECHANICAL SUPPLY AIR GRILL - SEE SHEET M-1.3
	2x4' SUSPENDED CEILING LIGHT		MECHANICAL RETURN AIR GRILL - SEE SHEET M-1.3
	VODE 707-ZZ LED LIGHT		MECHANICAL EXHAUST AIR GRILL - SEE SHEET M-1.3
	4" DIA. RECESSED LIGHT		GYPSUM BOARD CEILING
	WALL SURFACE MOUNTED LIGHT		(E) GYPSUM BOARD CEILING TO REMAIN
	LIGHTED EXIT SIGN		(E) PLASTER CEILING TO REMAIN
	FIRE SPRINKLER		
	(E) 6" DIA. RECESSED LIGHT		
	(E) 18" DIAMETER PENDANT LIGHT		
	(E) 2x4' SUSPENDED CEILING LIGHT		



SECOND FLOOR DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

NUMBERED NOTES

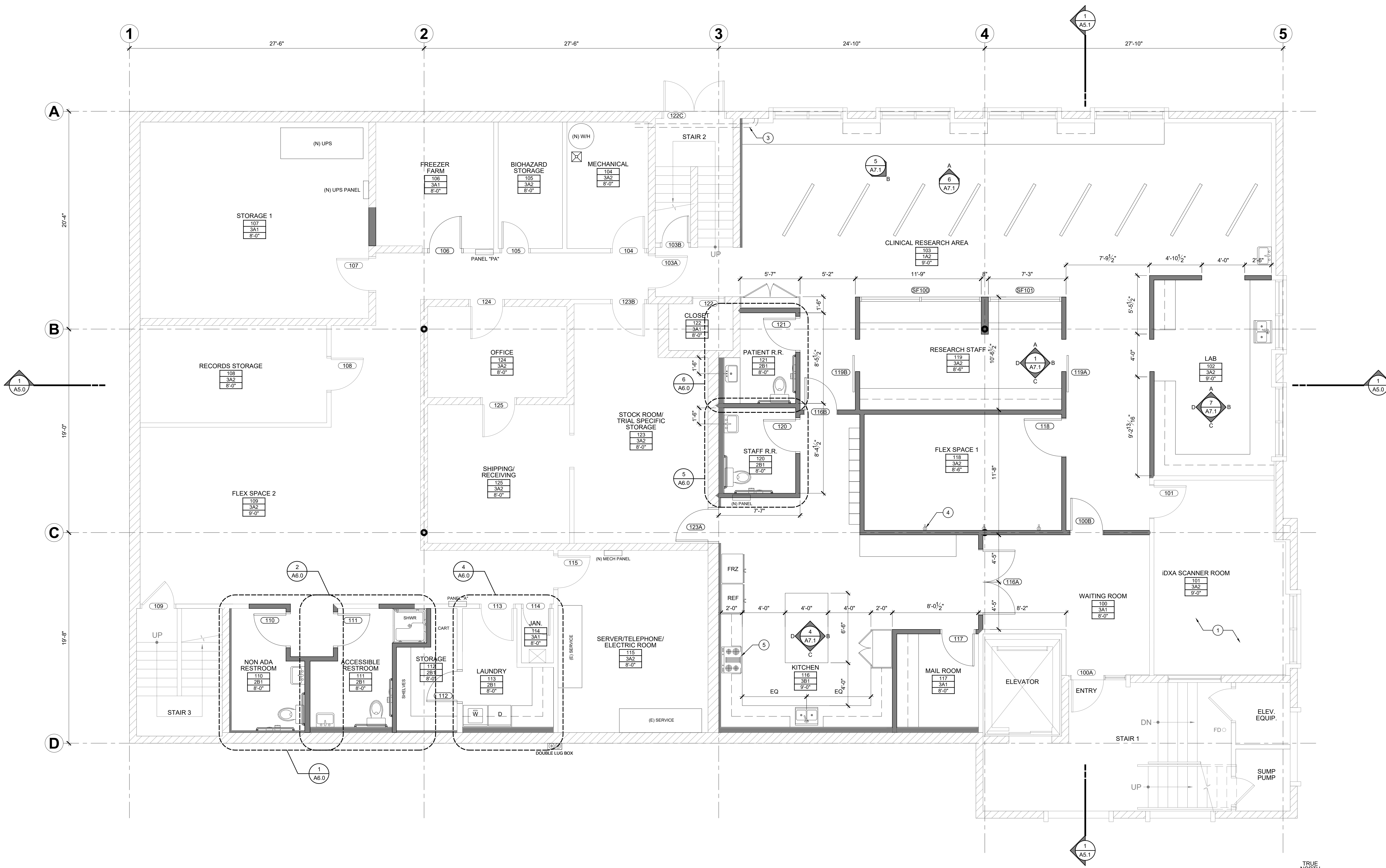
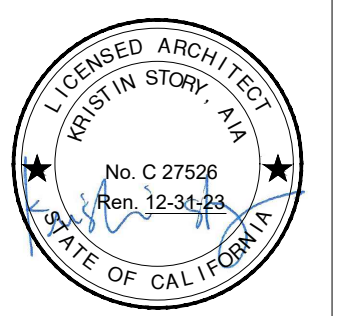
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- 2
- 3
- 4
- 5

GENERAL NOTES

1. FIELD VERIFY (E) CONDITIONS PRIOR TO START OF ANY WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
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4. ALL PERMANENT EXPOSED EXTERIOR STEEL SHALL BE GALVANIZED.
5. ALL VTRS TO REMAIN UNO.
6. ALL (E) PIPING, CONDUIT, PANELS AND EQUIPMENT TO BE PROTECTED AND MAINTAINED UNO. DURING CONSTRUCTION.
7. ALL (E) ROOF AND ROOF OVERFLOW DRAINS TO REMAIN. PROTECT AND KEEP CLEAN AND FREE OF DEBRIS AND IN GOOD WORKING ORDER.
8. (E) CLASS A PVC SINGLE PLY ROOF TO REMAIN. PROTECT DURING CONSTRUCTION.
9. ALL WORK SHALL BE FINISHED (UNO) IN ACCORDANCE WITH PAINT SPECIFICATIONS.
10. AT ALL AREAS OF WORK, PATCHED WALL OR CEILING, PAINT ENTIRE WALL OR CEILING.
11. TEMPORARY CONSTRUCTION BARRIERS SHALL BE REQUIRED TO CONCEAL WORK IN COMMON OR FINISHED AREAS WHERE APPLICABLE.
12. AT (E) OR (N) CONCRETE FLOORS, PROVIDE "ARDEX K 15" SELF LEVELER ON ENTIRE SPACE (FLOAT ENTIRE FLOOR) IN PREPARATION FOR NEW FLOORING.
13. ALL EXPOSED (E) STUD WALLS OR ANY (N) INTERIOR OR EXTERIOR WALLS SHALL BE INSULATED WITH ACOUSTIC BATT INSULATION.
14. ALL EXTERIOR ROOFTOP DUCT WORK SHALL BE PAINTED TO MATCH ROOF COLOR.

LEGEND

	AREA OF CEILING DEMOLITION TO INCLUDE: SUSPENDED CEILING SYSTEM, LIGHTING, AND MECHANICAL SYSTEMS, DUCTWORK TO REMAIN		MECHANICAL SUPPLY AIR GRILL - SEE SHEET M-1.3
	2x4' SUSPENDED CEILING LIGHT		MECHANICAL RETURN AIR GRILL - SEE SHEET M-1.3
	VODE 707-ZZ LED LIGHT		MECHANICAL EXHAUST AIR GRILL - SEE SHEET M-1.3
	4" DIA. RECESSED LIGHT		GYPSUM BOARD CEILING
	WALL SURFACE MOUNTED LIGHT		(E) GYPSUM BOARD CEILING TO REMAIN
	LIGHTED EXIT SIGN		(E) PLASTER CEILING TO REMAIN
	FIRE SPRINKLER		
	(E) 6" DIA. RECESSED LIGHT		
	(E) 18" DIAMETER PENDANT LIGHT		
	(E) 2x4' SUSPENDED CEILING LIGHT		



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

NUMBERED NOTES

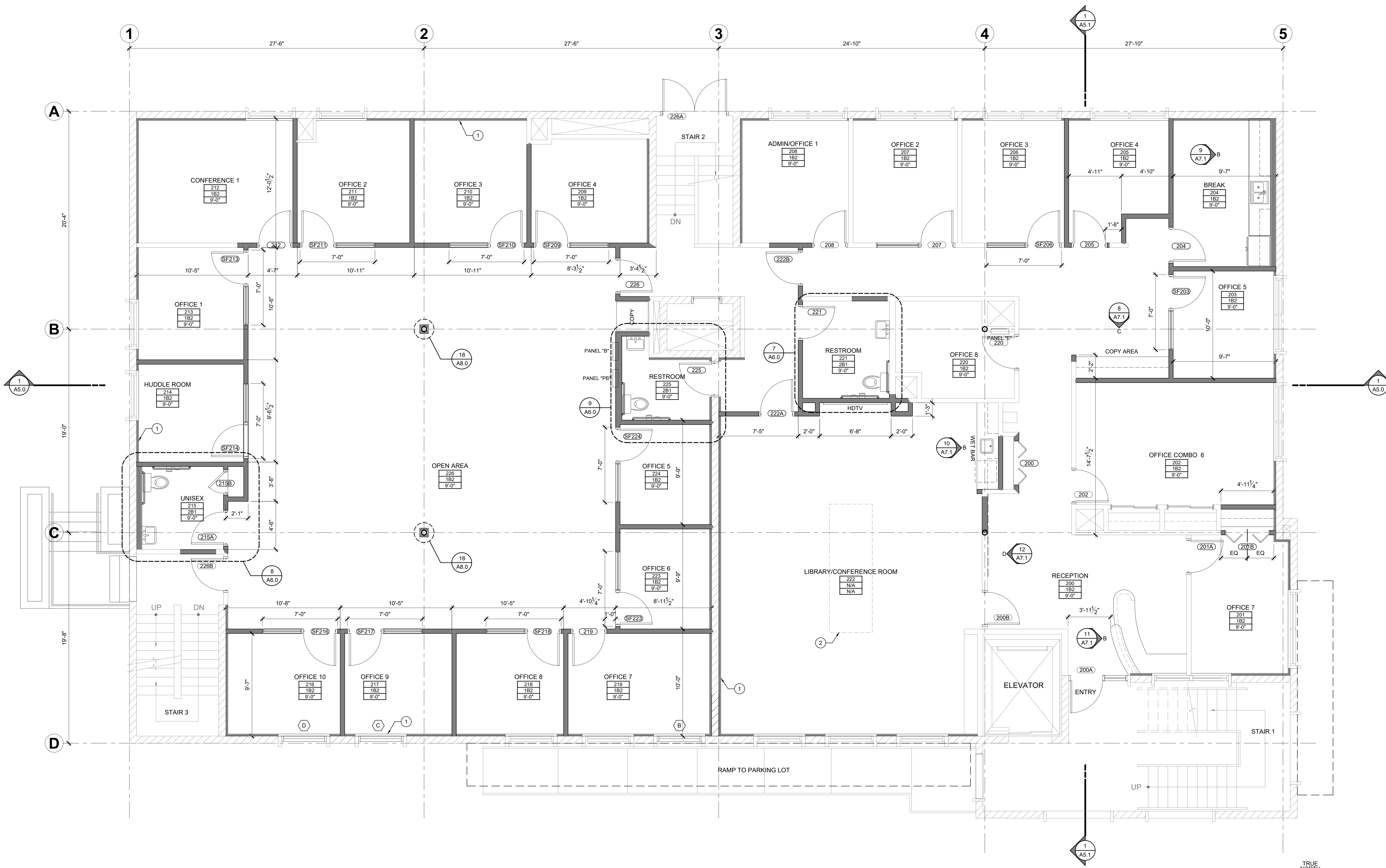
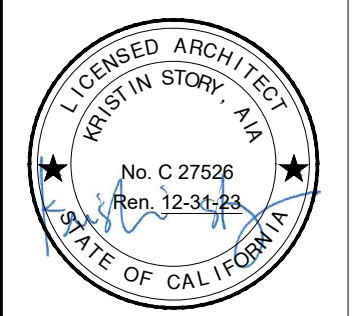
- ① IMAGING EQUIPMENT TO REMAIN. PROTECT IN PLACE.
- ② AT ALL EXPOSED CMU WALL, APPLY SEALANT PER SPECIFICATION _____.
- ③ (E) FIRE SPRINKLER PIPE TO REMAIN.
- ④ PROVIDE POWER OUTLETS FOR FUTURE EXERCISE EQUIPMENT.
- ⑤ STOVE TOP ONLY
- ⑥ -

GENERAL NOTES

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LEGEND

- EXISTING MASONRY WALL TO REMAIN
- EXISTING 2x STUD WALL TO REMAIN
- NEW 2x STUD WALL, NON-RATED
- NEW 1-HR RATED 2x STUD WALL PER UL U305
- EXISTING TO BE REMOVED



FIRST FLOOR PLAN
SCALE: 1/4"=1'-0"

NUMBERED NOTES

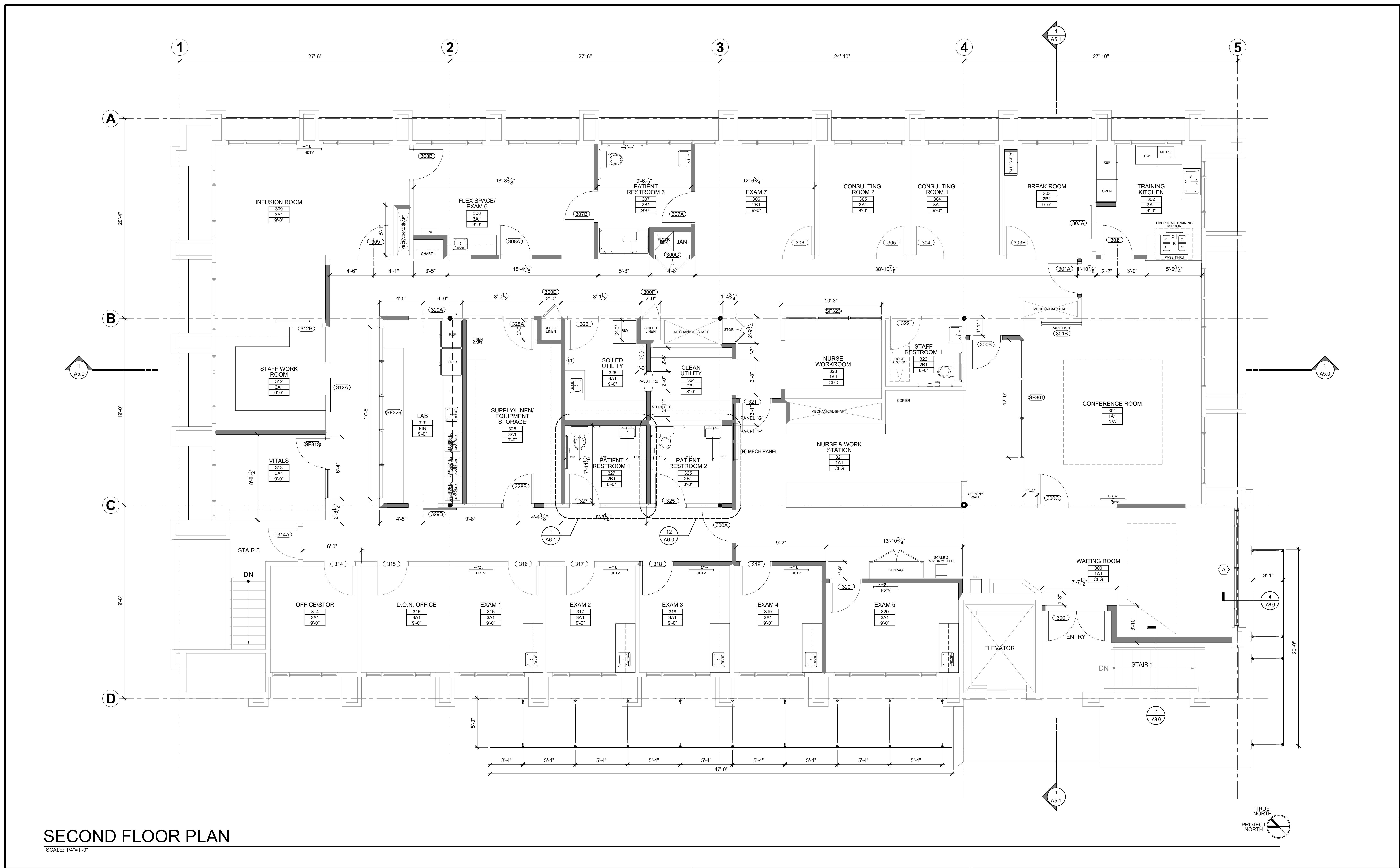
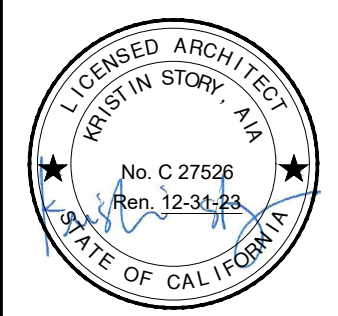
- 1 FURRED WALL AT ALL CMU, UNO.
- 2 (E) TABLE TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION.
- 3 -
- 4 -
- 5 -

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LEGEND

- EXISTING MASONRY WALL TO REMAIN
- EXISTING 2x STUD WALL TO REMAIN
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- NEW 1-HR RATED 2x STUD WALL PER UL U305
- EXISTING TO BE REMOVED



SECOND FLOOR PLAN
SCALE: 1/4"=1'-0"

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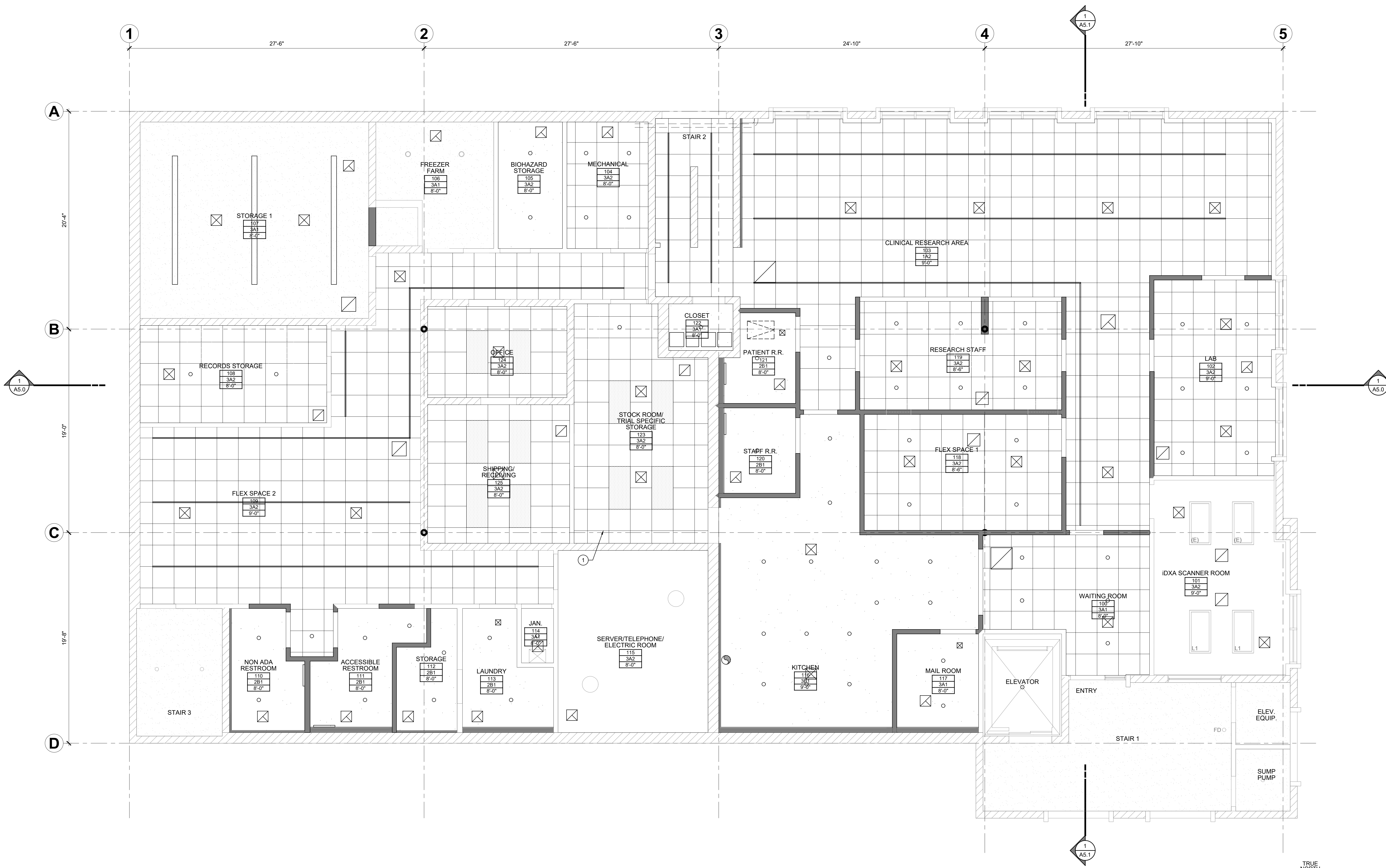
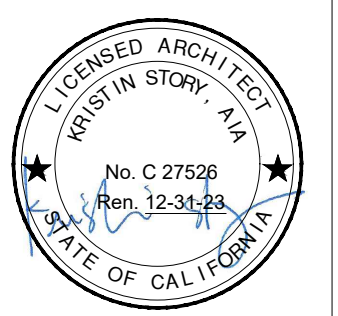
- 1
- 2
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LEGEND

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- EXISTING 2x STUD WALL TO REMAIN
- NEW 2x STUD WALL, NON-RATED
- NEW 1-HR RATED 2x STUD WALL PER UL U305
- EXISTING TO BE REMOVED



BASEMENT REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

NUMBERED NOTES

- 1 SUSPENDED CEILING SYSTEM. SEE DETAILS ON SHEET A8.1.
- 2
- 3
- 4
- 5

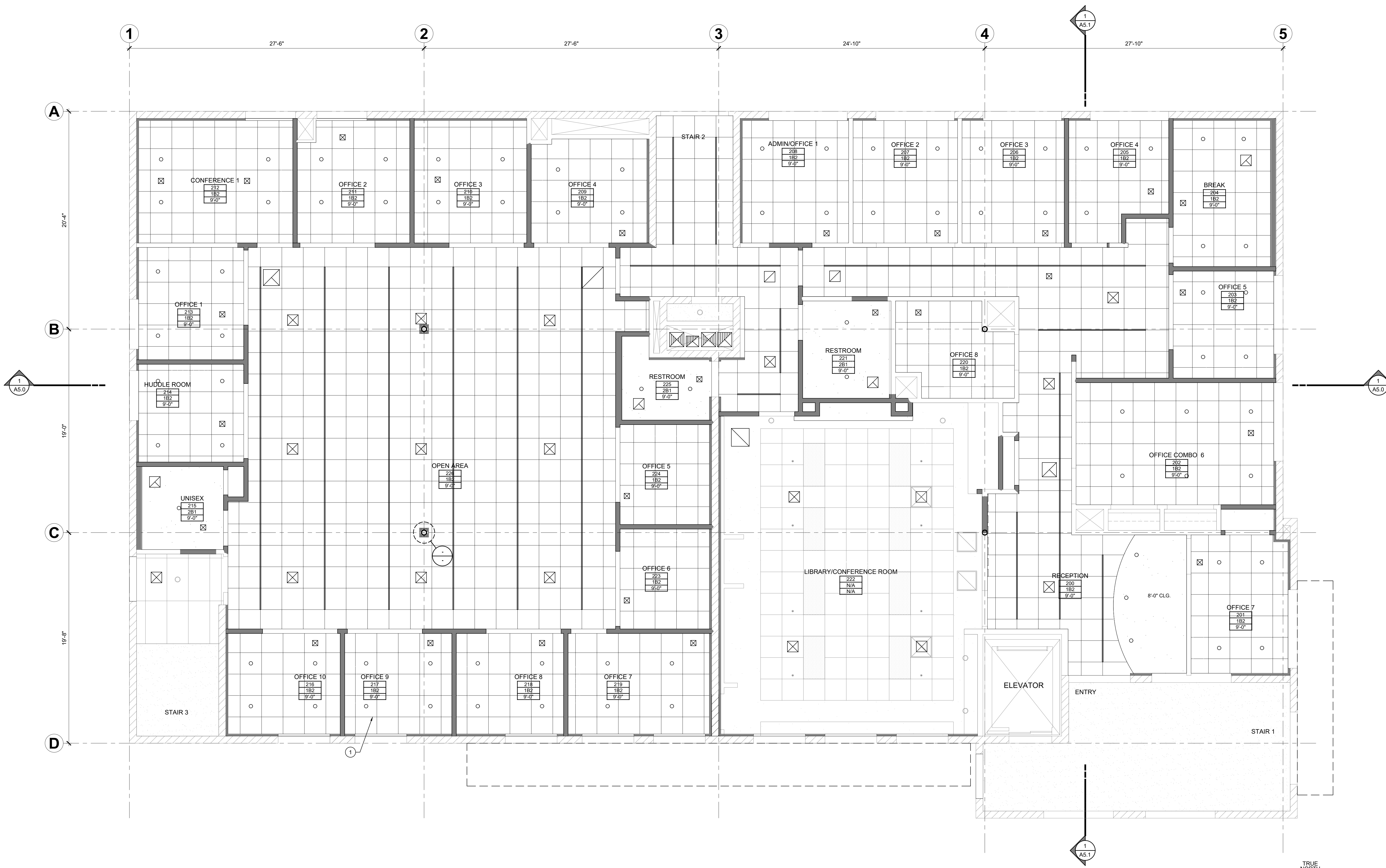
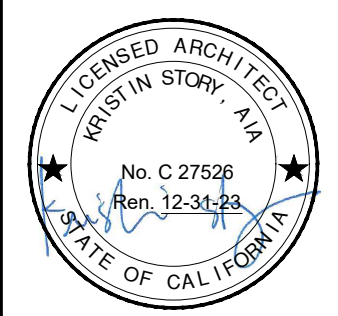
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LEGEND

	AREA OF CEILING DEMOLITION TO INCLUDE: SUSPENDED CEILING SYSTEM, LIGHTING, AND MECHANICAL SYSTEMS. DUCTWORK TO REMAIN		MECHANICAL SUPPLY AIR GRILL - SEE SHEET M-1.3
	2x4' SUSPENDED CEILING LIGHT		MECHANICAL RETURN AIR GRILL - SEE SHEET M-1.3
	VODE 707-ZZ LED LIGHT		MECHANICAL EXHAUST AIR GRILL - SEE SHEET M-1.3
	4" DIA. RECESSED LIGHT		GYPSUM BOARD CEILING
	WALL SURFACE MOUNTED LIGHT		(E) GYPSUM BOARD CEILING TO REMAIN
	LIGHTED EXIT SIGN		(E) PLASTER CEILING TO REMAIN
	FIRE SPRINKLER		
	(E) 6" DIA. RECESSED LIGHT		
	(E) 18" DIAMETER PENDANT LIGHT		
	(E) 2x4' SUSPENDED CEILING LIGHT		

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PLOT DATE: Apr 22, 2024 - 9:43am
PLOT BY: Kevin



FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

NUMBERED NOTES

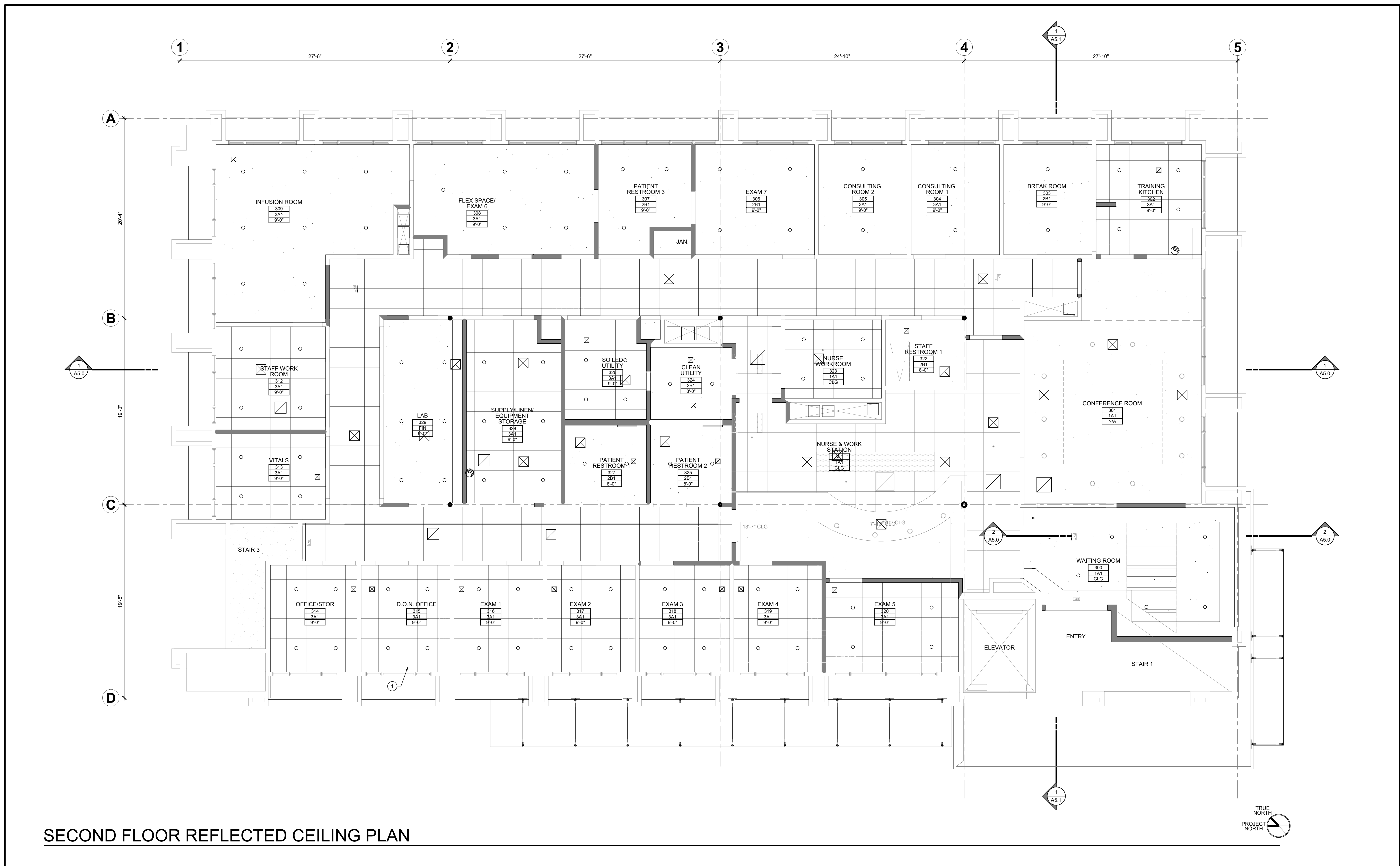
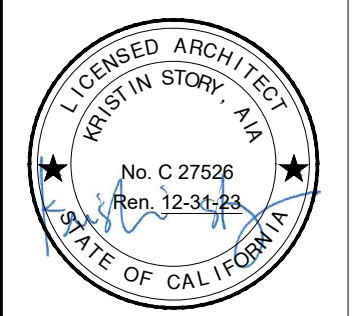
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LEGEND

	AREA OF CEILING DEMOLITION TO INCLUDE: SUSPENDED CEILING SYSTEM, LIGHTING, AND MECHANICAL SYSTEMS. DUCTWORK TO REMAIN		MECHANICAL SUPPLY AIR GRILL - SEE SHEET M-1.3
	2x4' SUSPENDED CEILING LIGHT		MECHANICAL RETURN AIR GRILL - SEE SHEET M-1.3
	VODE 707-ZZ LED LIGHT		MECHANICAL EXHAUST AIR GRILL - SEE SHEET M-1.3
	4" DIA. RECESSED LIGHT		GYPSUM BOARD CEILING
	WALL SURFACE MOUNTED LIGHT		(E) GYPSUM BOARD CEILING TO REMAIN
	LIGHTED EXIT SIGN		(E) PLASTER CEILING TO REMAIN
	FIRE SPRINKLER		
	(E) 6" DIA. RECESSED LIGHT		
	(E) 18" DIAMETER PENDANT LIGHT		
	(E) 2x4' SUSPENDED CEILING LIGHT		



SECOND FLOOR REFLECTED CEILING PLAN

NUMBERED NOTES

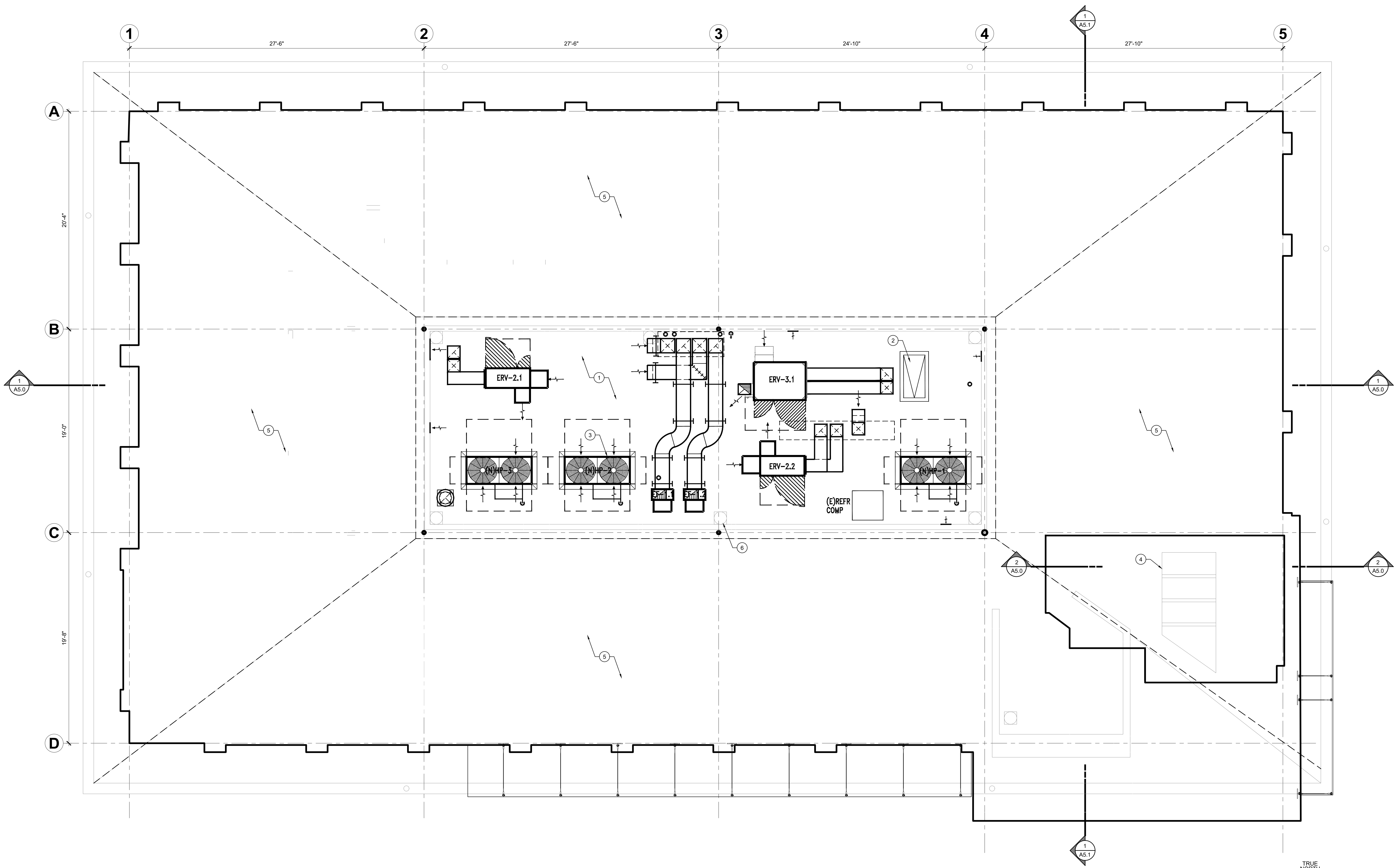
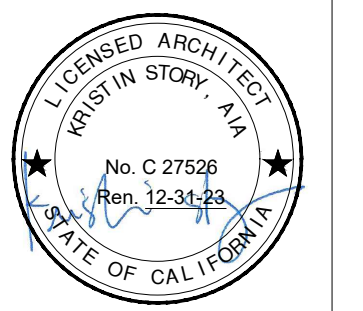
- 1 SUSPENDED CEILING SYSTEM. SEE DETAILS ON SHEET A8.1.
- 2
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LEGEND

	AREA OF CEILING DEMOLITION TO INCLUDE: SUSPENDED CEILING SYSTEM, LIGHTING, AND MECHANICAL SYSTEMS. DUCTWORK TO REMAIN		MECHANICAL SUPPLY AIR GRILL - SEE SHEET M-1.3
	2x4' SUSPENDED CEILING LIGHT		MECHANICAL RETURN AIR GRILL - SEE SHEET M-1.3
	VODE 707-ZZ LED LIGHT		MECHANICAL EXHAUST AIR GRILL - SEE SHEET M-1.3
	4" DIA. RECESSED LIGHT		GYPSUM BOARD CEILING
	WALL SURFACE MOUNTED LIGHT		(E) GYPSUM BOARD CEILING TO REMAIN
	LIGHTED EXIT SIGN		(E) PLASTER CEILING TO REMAIN
	FIRE SPRINKLER		
	(E) 6" DIA. RECESSED LIGHT		
	(E) 18" DIAMETER PENDANT LIGHT		
	(E) 2x4' SUSPENDED CEILING LIGHT		



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

NUMBERED NOTES

- 1 (E) CLASS A SINGLE PLY ROOF MEMBRANE TO REMAIN BY TREMCO TPA. PROTECT DURING CONSTRUCTION. ROOF DETAILS SEE SHEET _____.
- 2 (E) ROOF HATCH TO REMAIN.
- 3 (N) MECHANICAL EQUIPMENT. SEE SHEET M-2.4.
- 4 (E) SKYLIGHT TO REMAIN. PROTECT IN PLACE.
- 5 (E) TILE ROOFING TO REMAIN.
- 6 (E) ROOF DRAIN TO REMAIN.
- 7 (E) DOWNSPOUTS TO REMAIN.

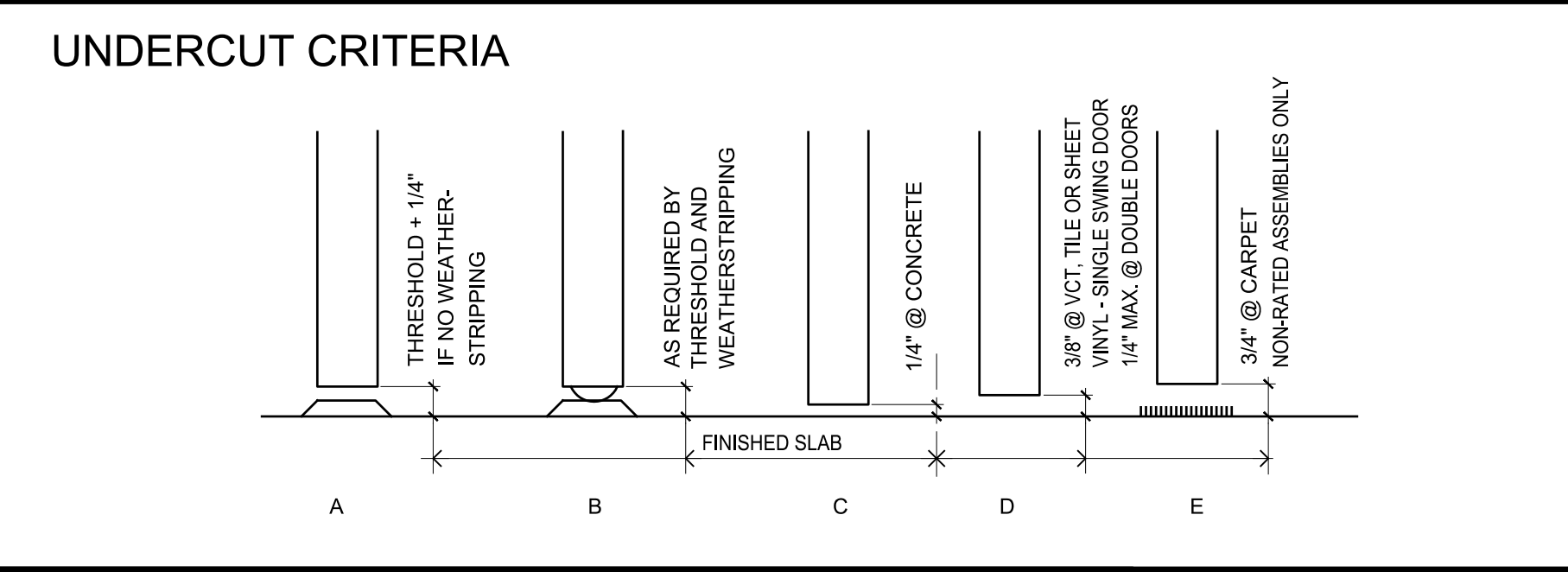
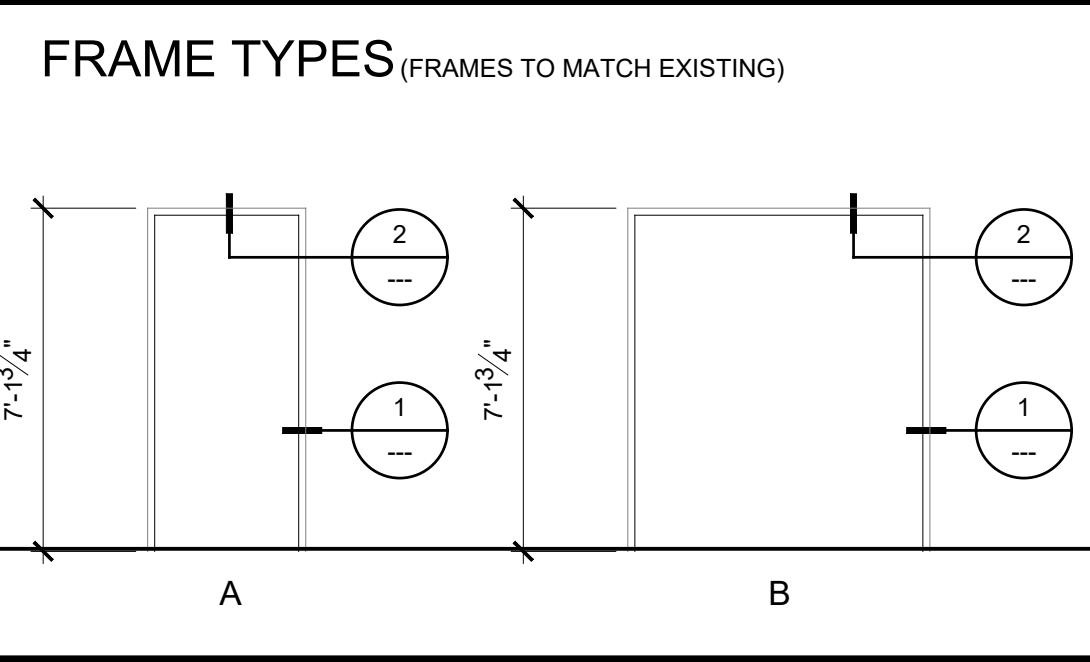
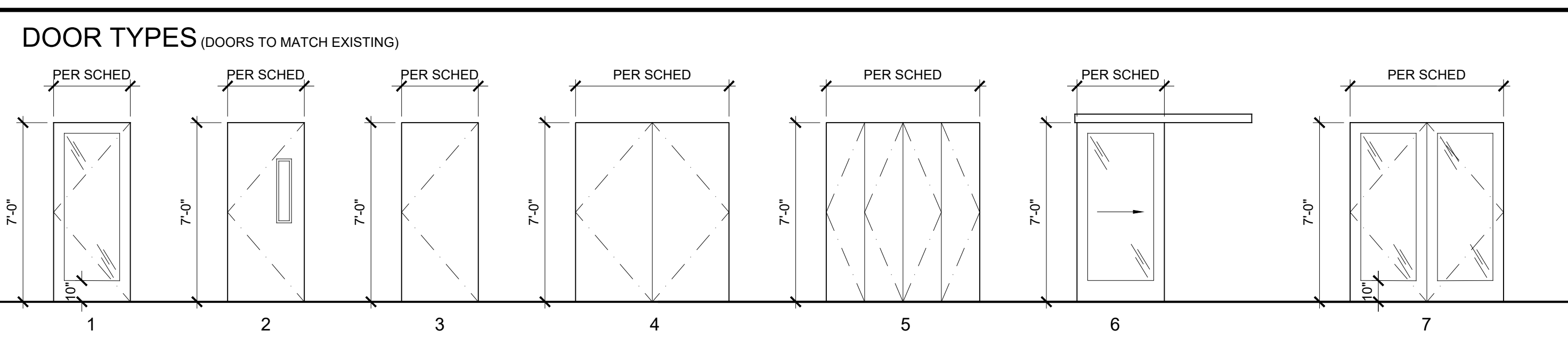
GENERAL NOTES

1. FIELD VERIFY (E) CONDITIONS PRIOR TO START OF ANY WORK AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
2. NOTIFY OWNER OF ANY OUTAGES OR DISCONNECTS A MINIMUM OF 48 HOURS IN ADVANCE.
3. ALL SMOKE ALARM AND FIRE SPRINKLERS TO REMAIN. PROTECT DURING CONSTRUCTION.
4. ALL PERMANENT EXPOSED EXTERIOR STEEL SHALL BE GALVANIZED.
5. ALL VTRS TO REMAIN UNO.
6. ALL (E) PIPING, CONDUIT, PANELS AND EQUIPMENT TO BE PROTECTED AND MAINTAINED UNO. DURING CONSTRUCTION.
7. ALL (E) ROOF AND ROOF OVERFLOW DRAINS TO REMAIN. PROTECT AND KEEP CLEAN AND FREE OF DEBRIS AND IN GOOD WORKING ORDER.
8. (E) CLASS A PVC SINGLE PLY ROOF TO REMAIN. PROTECT DURING CONSTRUCTION.
9. ALL WORK SHALL BE FINISHED (UNO) IN ACCORDANCE WITH PAINT SPECIFICATIONS.
10. AT ALL AREAS OF WORK, PATCHED WALL OR CEILING, PAINT ENTIRE WALL OR CEILING.
11. TEMPORARY CONSTRUCTION BARRIERS SHALL BE REQUIRED TO CONCEAL WORK IN COMMON OR FINISHED AREAS WHERE APPLICABLE.
12. AT (E) OR (N) CONCRETE FLOORS, PROVIDE "ARDEX K 15" SELF LEVELER ON ENTIRE SPACE (FLOAT ENTIRE FLOOR) IN PREPARATION FOR NEW FLOORING.
13. ALL EXPOSED (E) STUD WALLS OR ANY (N) INTERIOR OR EXTERIOR WALLS SHALL BE INSULATED WITH ACOUSTIC BATT INSULATION.
14. ALL EXTERIOR ROOFTOP DUCT WORK SHALL BE PAINTED TO MATCH ROOF COLOR.

LEGEND

	EXISTING MASONRY WALL TO REMAIN		AREA OF CEILING DEMOLITION TO INCLUDE: SUSPENDED CEILING SYSTEM, LIGHTING, AND MECHANICAL SYSTEMS, DUCTWORK TO REMAIN
	EXISTING 2x STUD WALL TO REMAIN		2'x4' SUSPENDED CEILING LIGHT
	NEW 2x STUD WALL, NON-RATED		VODE 707-22 LED LIGHT
			4" DIA. RECESSED LIGHT
			WALL SURFACE MOUNTED LIGHT
			LIGHTED EXIT SIGN
			FIRE SPRINKLER
			(E) 6" DIA. RECESSED LIGHT
			(E) 18" DIAMETER PENDANT LIGHT
			(E) 2'x4' SUSPENDED CEILING LIGHT

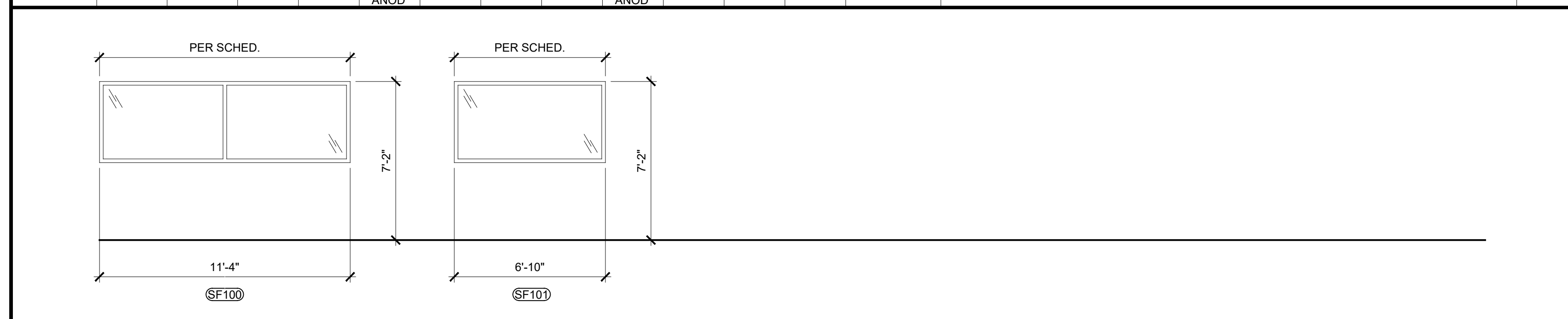
DOOR SCHEDULE																	
MARK	ASSEMBLY RATING IS TYPICAL	SIZE		DOOR			FRAME			DETAILS			HARDWARE GROUP	ADA SIGNAGE	NOTES	MARK	
		WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	LOWER HT	TYPE	MATERIAL	FINISH	HEAD	JAMB					THRESHOLD
C108B	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C108B
C118A	NON	PR 3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C118A
C118B	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C118B
C117	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C117
C118	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C118
C118A	NON	3'-5"	7'-0"	6	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	4"	5.7"	3"	SET	-	19	C118A
C118B	NON	3'-5"	7'-0"	6	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	4"	5.7"	3"	SET	-	19	C118B
C120	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C120
C121	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C121
C122A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C122A
C110	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C110
C111	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C111
C112	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C112
C106	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C106
C109	60 MN	3'-0"	7'-0"	3	WD	STAIN	N/A	-	HM	-	6/43.0	-	-	SET	-	-	C109
C122	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C122
C103A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C103A
C103B	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C103B
C123B	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C123B
C104	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C104
C105	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C105
C124	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C124
C125	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C125
C107	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C107
C108	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C108
C113	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C113
C114	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C114
C115	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C115
C100A	NON	3'-0"	7'-0"	3	ALUM	CLEAR ANOD	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C100A
C101	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C101
FIRST FLOOR																	
C200	NON	4'-0"	7'-0"	5	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C200
C200A	NON	3'-0"	7'-0"	5	ALUM	CLEAR ANOD	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C200A
C201A	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C201A
C201B	NON	4'-0"	7'-0"	5	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C201B
C202	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C202
C205	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C205
C221	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C221
C222A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C222A
C222B	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C222B
C212	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C212
C15A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C15A
C19B	NON	2'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C19B
C19	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C19
C25	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C25
C26	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C26
C200A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C200A
C208	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C208
C22	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C22
C220	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C220
C207	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C207
C208	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C208
C28A	NON	PR 3'-0"	7'-0"	7	ALUM	CLEAR ANOD	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C28A
C28B	60 MN	3'-0"	7'-0"	3	ALUM	CLEAR ANOD	N/A	-	HM	-	6/43.0	-	-	SET	-	-	C28B
SECOND FLOOR																	
C300	NON	PR 3'-0"	7'-0"	7	ALUM	CLEAR ANOD	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C300
C300A	NON	3'-0"	7'-0"	2	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C300A
C300B	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C300B
C300C	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C300C
C300E	NON	1'-8"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C300E
C300F	NON	1'-8"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C300F
C300S	NON	PR 1'-8"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C300S
C301A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C301A
C301B	NON	PARTITION	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C301B
C302	NON	3'-0"	7'-0"	1	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	19	C302
C303A	NON	3'-5"	7'-0"	6	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	4"	5.7"	3"	SET	-	19	C303A
C307A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C307A
C307B	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C307B
C308A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C308A
C308B	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C308B
C309	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C309
C312A	NON	3'-5"	7'-0"	6	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	4"	5.7"	3"	SET	-	19	C312A
C312B	NON	3'-5"	7'-0"	6	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	4"	5.7"	3"	SET	-	19	C312B
C320A	NON	3'-5"	7'-0"	6	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	4"	5.7"	3"	SET	-	19	C320A
C320B	NON	3'-5"	7'-0"	6	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	4"	5.7"	3"	SET	-	19	C320B
C328B	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C328B
C325	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C325
C318	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C318
C319	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C319
C320	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C320
C321	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C321
C303B	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C303B
C304	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C304
C305	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C305
C322	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C322
C306	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C306
C314A	80 MN	3'-0"	7'-0"	3	WD	STAIN	N/A	-	METAL	CLEAR ANOD	2"	1"	-	SET	-	-	C314A
C326	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C326
C328A	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C328A
C314	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C314
C315	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C315
C316	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C316
C317	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C317
C327	NON	3'-0"	7'-0"	3	WD	STAIN	N/A	-	ALUM	CLEAR ANOD	2"	1"	-	SET	-	-	C327



WINDOW SCHEDULE																	
MARK	ASSEMBLY RATING IS TYPICAL	SIZE		WINDOW			FRAME			DETAILS			HARDWARE GROUP	ADA SIGNAGE	NOTES	MARK	
		WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	LOWER HT	TYPE	MATERIAL	FINISH	HEAD	JAMB					SILL
C108	NON	11'-9"	MATCH (E)	1	ALUM	CLEAR ANOD	N/A	-	ALUM	CLEAR ANOD	6/48.0	-	5/48.0	-	-	-	C108
C113	NON	4'-2"	MATCH (E)	2	ALUM	CLEAR ANOD	N/A	-	ALUM	CLEAR ANOD	1/48.0	2/48.0	3/48.0	-	-	-	C113
C114	NON	4'-2"	MATCH (E)</														

STOREFRONT SCHEDULE

BASEMENT														MARK	DOOR SCHEDULE NOTES:
SIZE		DOOR			FRAME			DETAILS			HARDWARE GROUP				
MARK	WIDTH	HEIGHT	TYPE	MATERIAL	FACING & FINISH	LOUVER HT.	TYPE	MATERIAL	FINISH	HEAD		JAMB	THRESHOLD		
SF100	11'-4"	3'-8"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF101	6'-10"	3'-8"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	



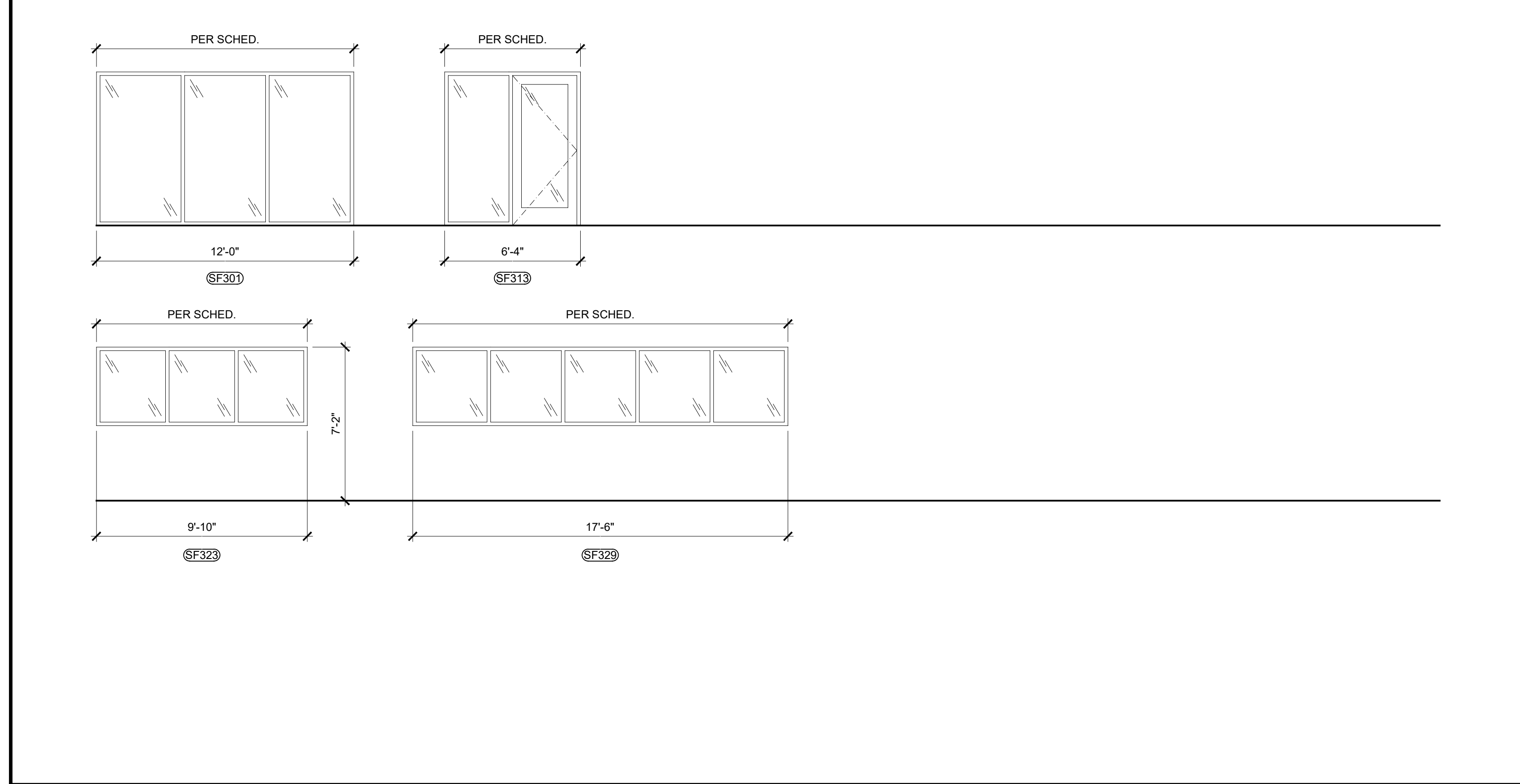
FIRST FLOOR

FIRST FLOOR														MARK	DOOR SCHEDULE NOTES:
SIZE		DOOR			FRAME			DETAILS			HARDWARE GROUP				
MARK	WIDTH	HEIGHT	TYPE	MATERIAL	FACING & FINISH	LOUVER HT.	TYPE	MATERIAL	FINISH	HEAD		JAMB	THRESHOLD		
SF203	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF206	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF209	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF210	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF211	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF213	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF214	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF216	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF217	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF218	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF223	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF224	7'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	



SECOND FLOOR

SECOND FLOOR														MARK	DOOR SCHEDULE NOTES:
SIZE		DOOR			FRAME			DETAILS			HARDWARE GROUP				
MARK	WIDTH	HEIGHT	TYPE	MATERIAL	FACING & FINISH	LOUVER HT.	TYPE	MATERIAL	FINISH	HEAD		JAMB	THRESHOLD		
SF301	12'-0"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF313	6'-4"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF323	9'-10"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	
SF329	17'-6"	7'-2"	-	ALUM	CLEAR ANOD	-	-	ALUM	CLEAR ANOD	1,2----	1,2----	-	SET -	19	



ROOM MATERIAL CODE LIST

FLOOR / BASE	WALL / WANSOT	CEILING	CASEWORK
1 CARPET / SELF COVERED	A GYPBOARD, PAINT / NONE	1 GYPBOARD, PAINT	1 WOOD, PAINT
2 CERAMIC TILE / TILE COVE	B GYPBOARD, PAINT / CERAMIC TILE	2 2'-0" x 2'-0" SUSPENDED CEILING SYSTEM	2 -
3 SHEET VINYL FLOORING / SELF COVERED WELDED SEAMS	C -	3 -	3 -
4 -	D -	4 -	4 -
5 -	E -	5 -	5 -
6 -	F -	6 -	6 -

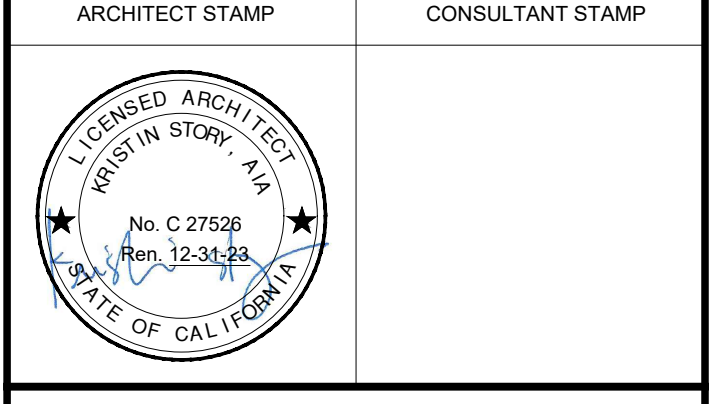


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fax: 805.456.5901 alan@aneng.com
Electrical Engineering Lighting Design



AGENCY APPROVAL: CITY OF SANTA BARBARA.
PLANNING # PLN2023-00327
PERMIT #:

MILESTONE DATES:

9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
4-22-24	PLANNING DEPT. SUBMITTAL

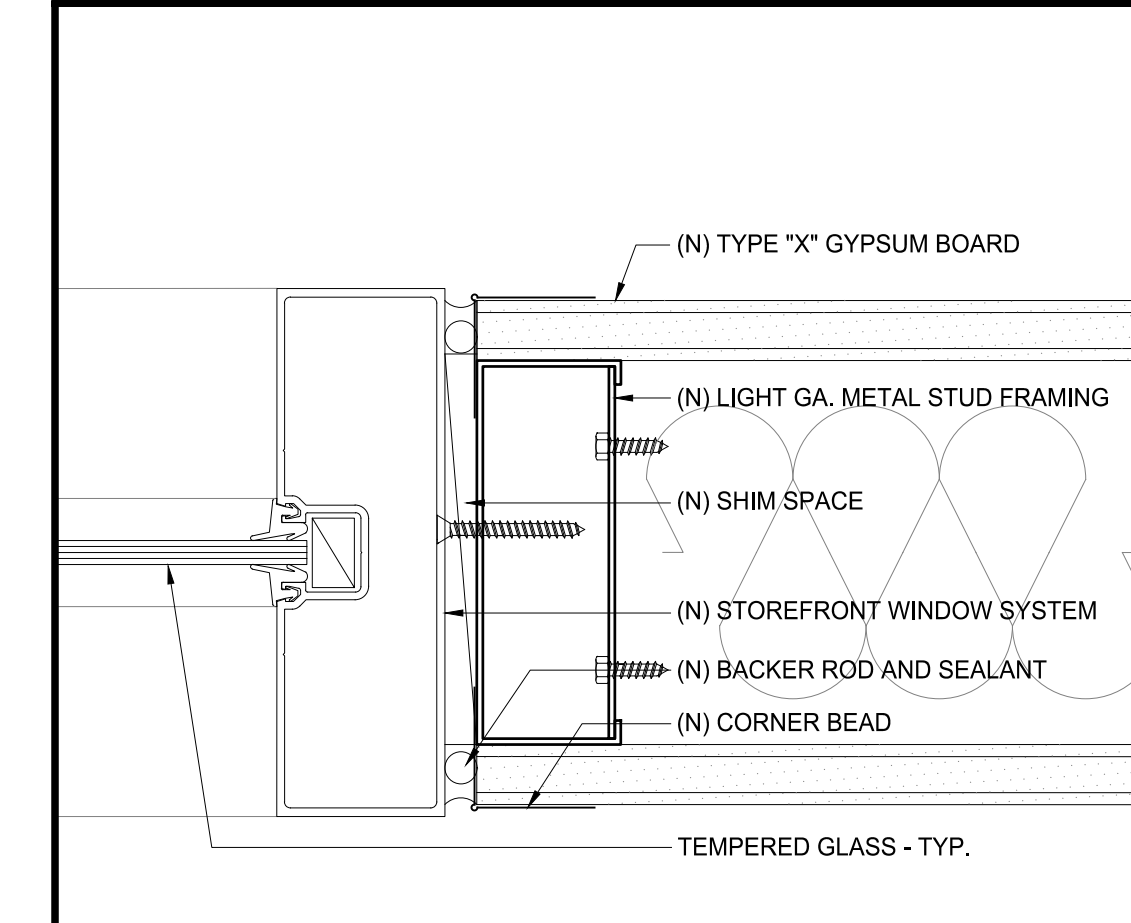
REVISIONS:

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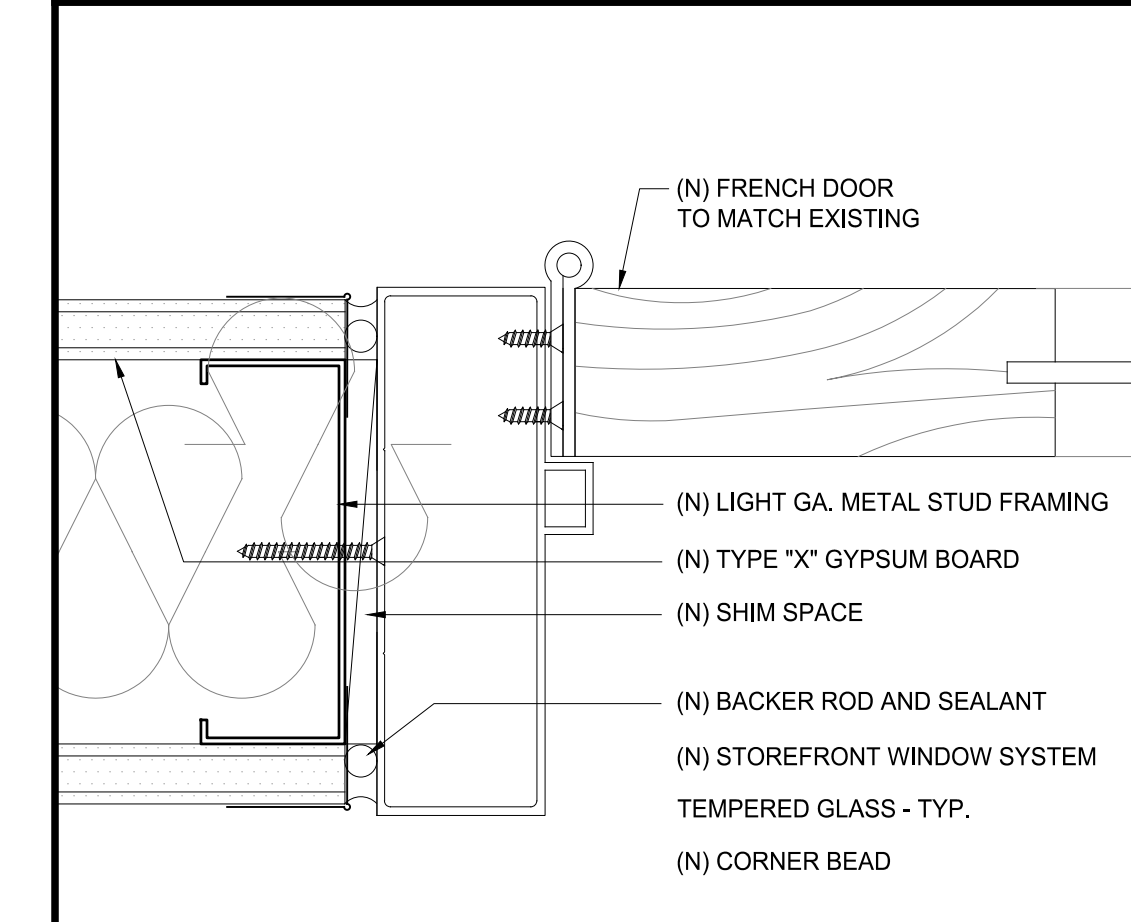
PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
STOREFRONT SCHEDULES
DATE: 12-30-22
DRAWN BY: KEVIN M. MURPHY
JOB NUMBER: 22004

SHEET of
A3.1



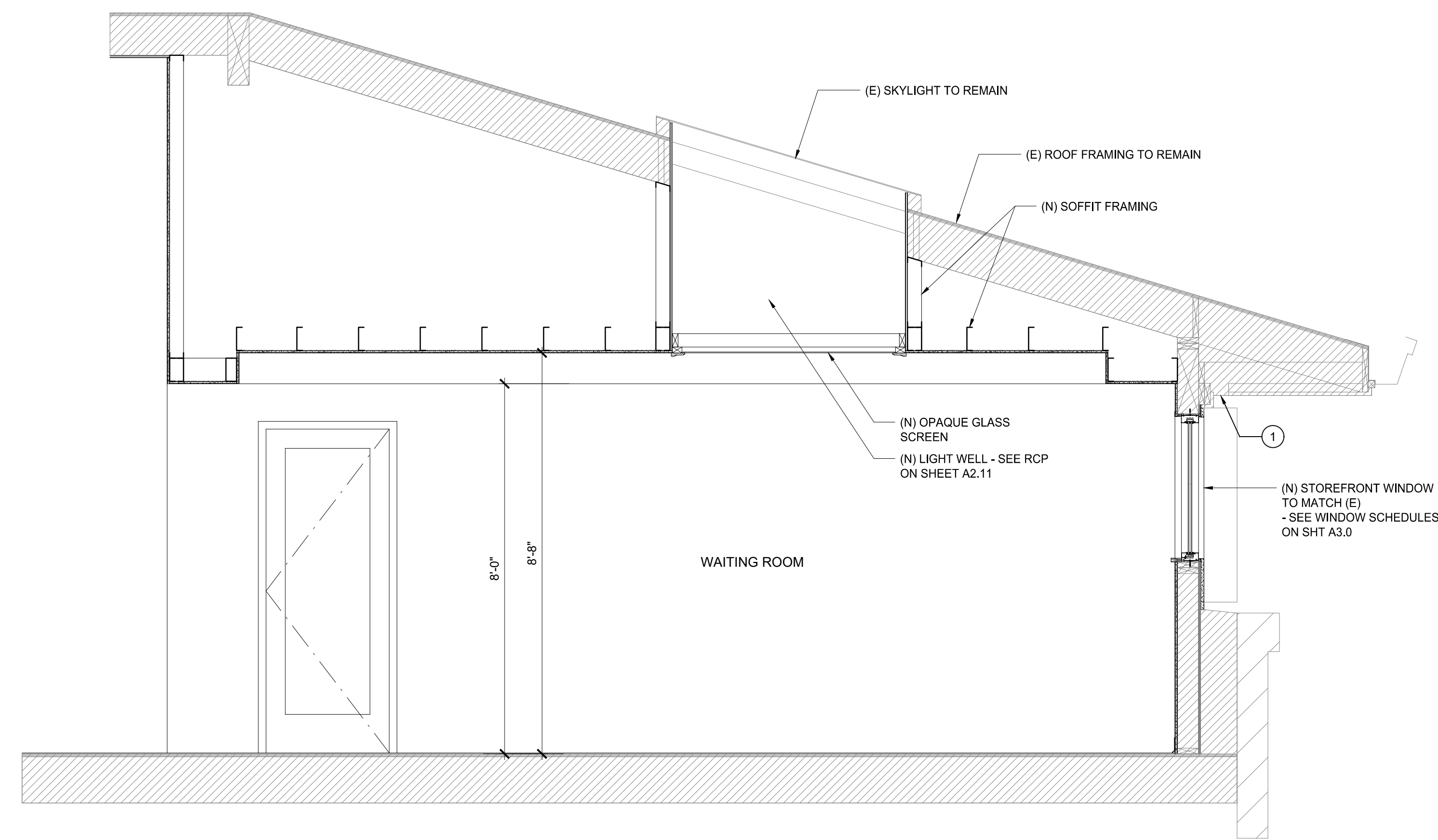
WINDOW JAMB/HEAD DETAIL
SCALE: 6" = 1'-0" 2



DOOR JAMB/HEAD DETAIL
SCALE: 6" = 1'-0" 1

NUMBERED NOTES

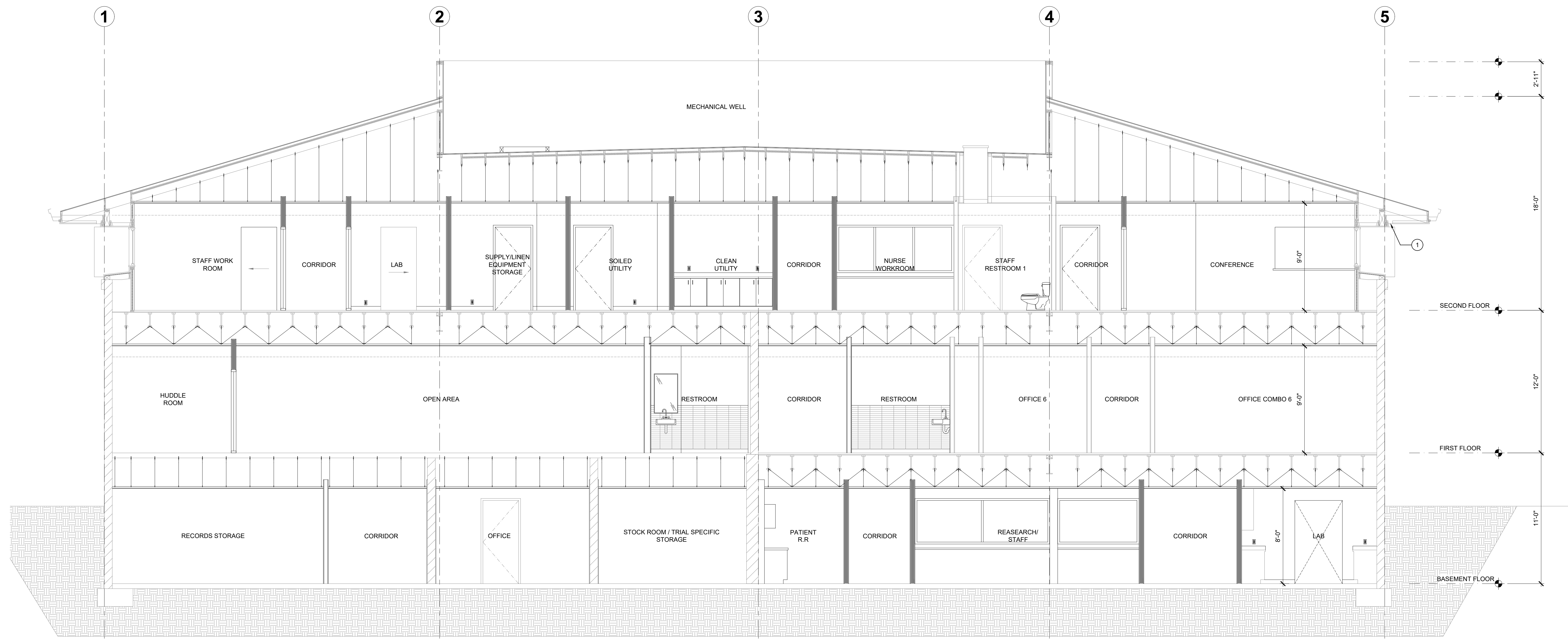
- ① (E) UNDER EAVE LINIER ATTIC VENTS TO REMAIN.
- ② -
- ③ -
- ④ -
- ⑤ -



PARTIAL SECTION

SCALE: 1/2"=1'-0"

②



SECTION

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



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SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
SECTION

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY
JOB NUMBER: 22004

SHEET **A5.0** of **5**

Drawing name: C:\Users\Kevin\OneDrive - onestory architect\Story\22004 Sansum Diabetes Research Institute\22004 SANSUM DIABETES RESEARCH INSTITUTE.dwg
 PLOT DATE: Apr 22, 2024 - 12:59pm
 PLOT BY: Kevin

NUMBERED NOTES

- ① (E) UNDER EAVE LINIER ATTIC VENTS TO REMAIN.
- ② -
- ③ -
- ④ -
- ⑤ -

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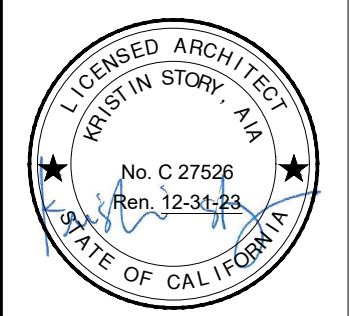
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ARCHITECT STAMP CONSULTANT STAMP



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INSTITUTE**
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93105

SHEET TITLE:
SECTION

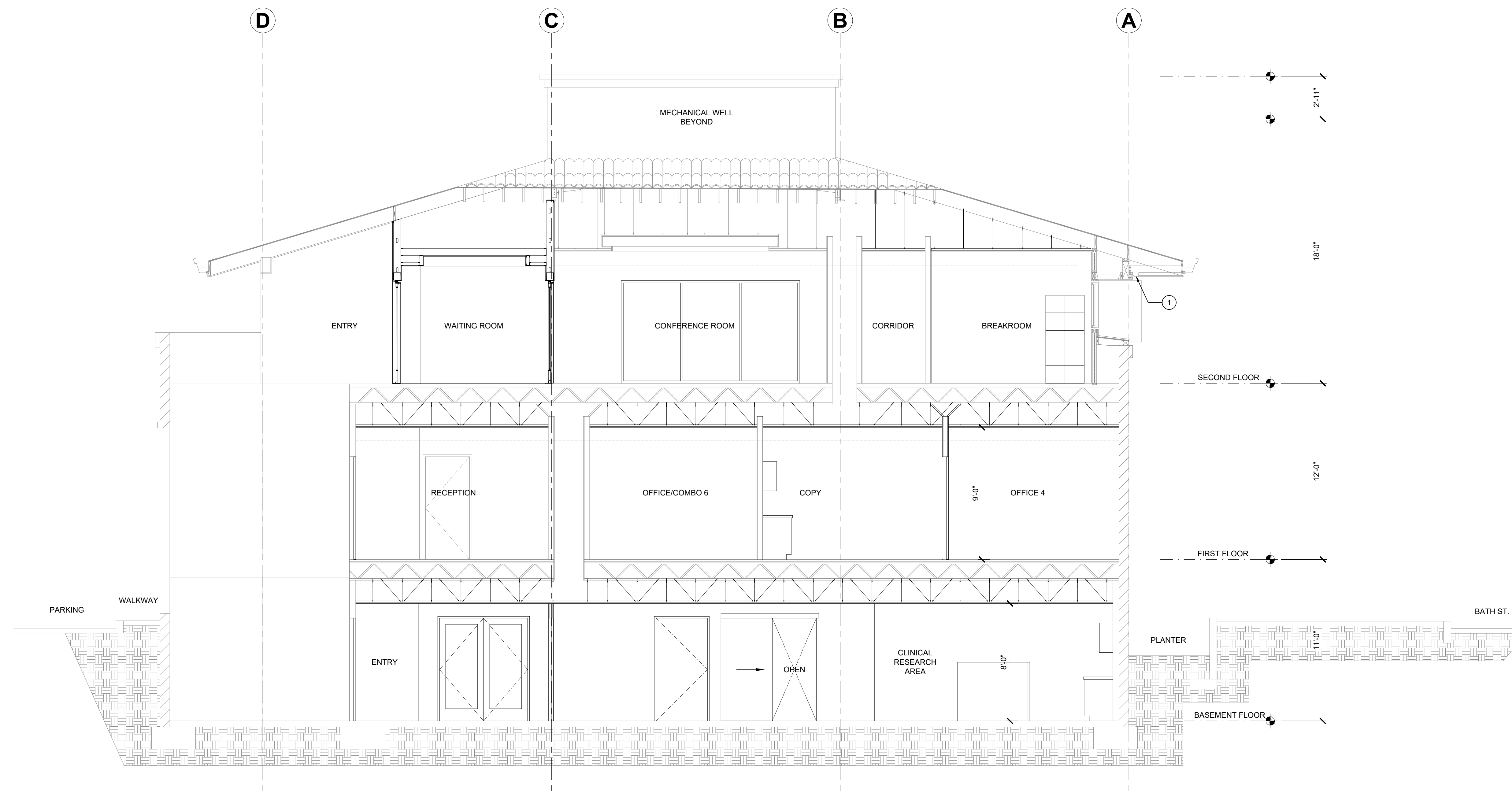
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

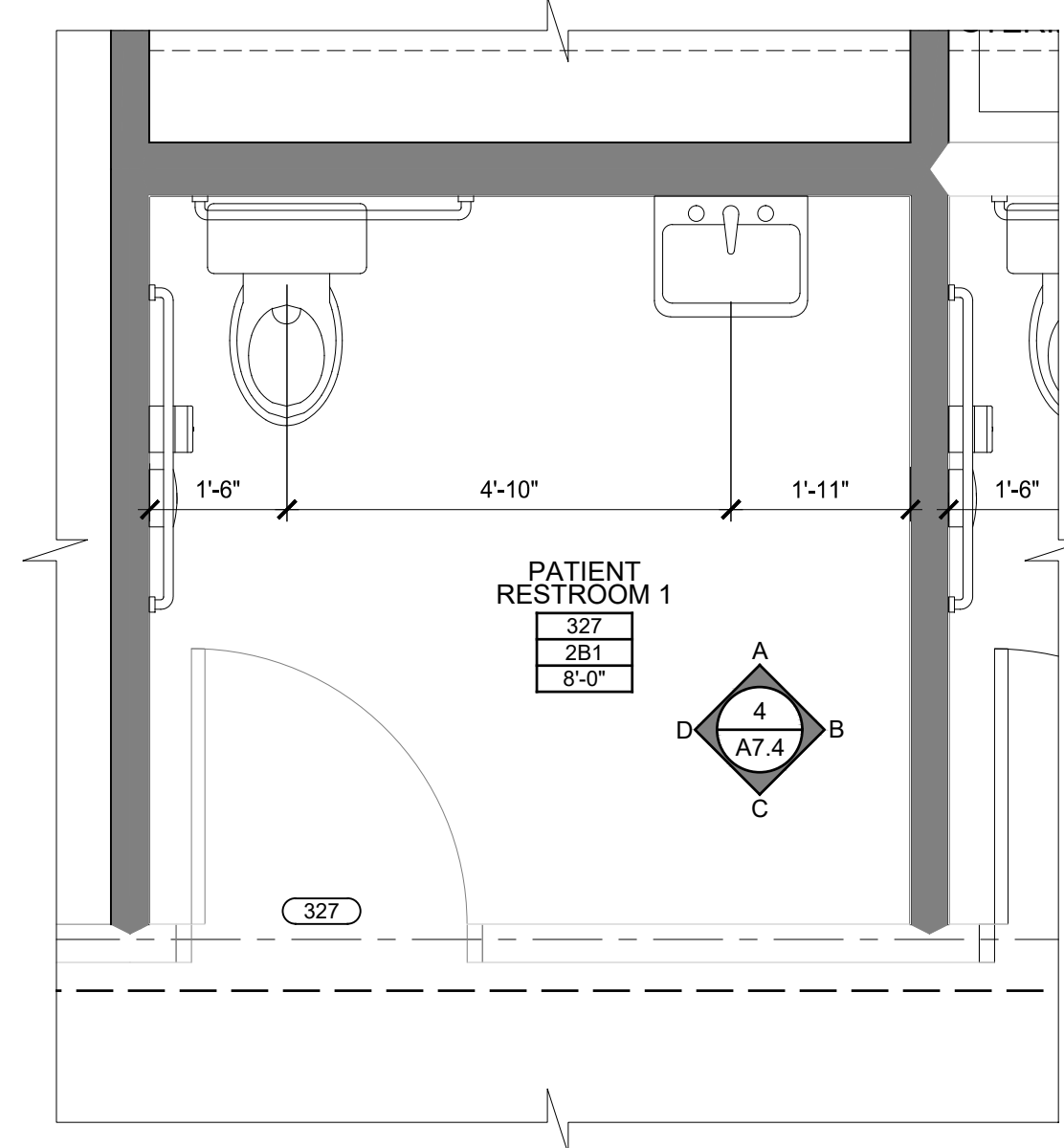
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A5.1



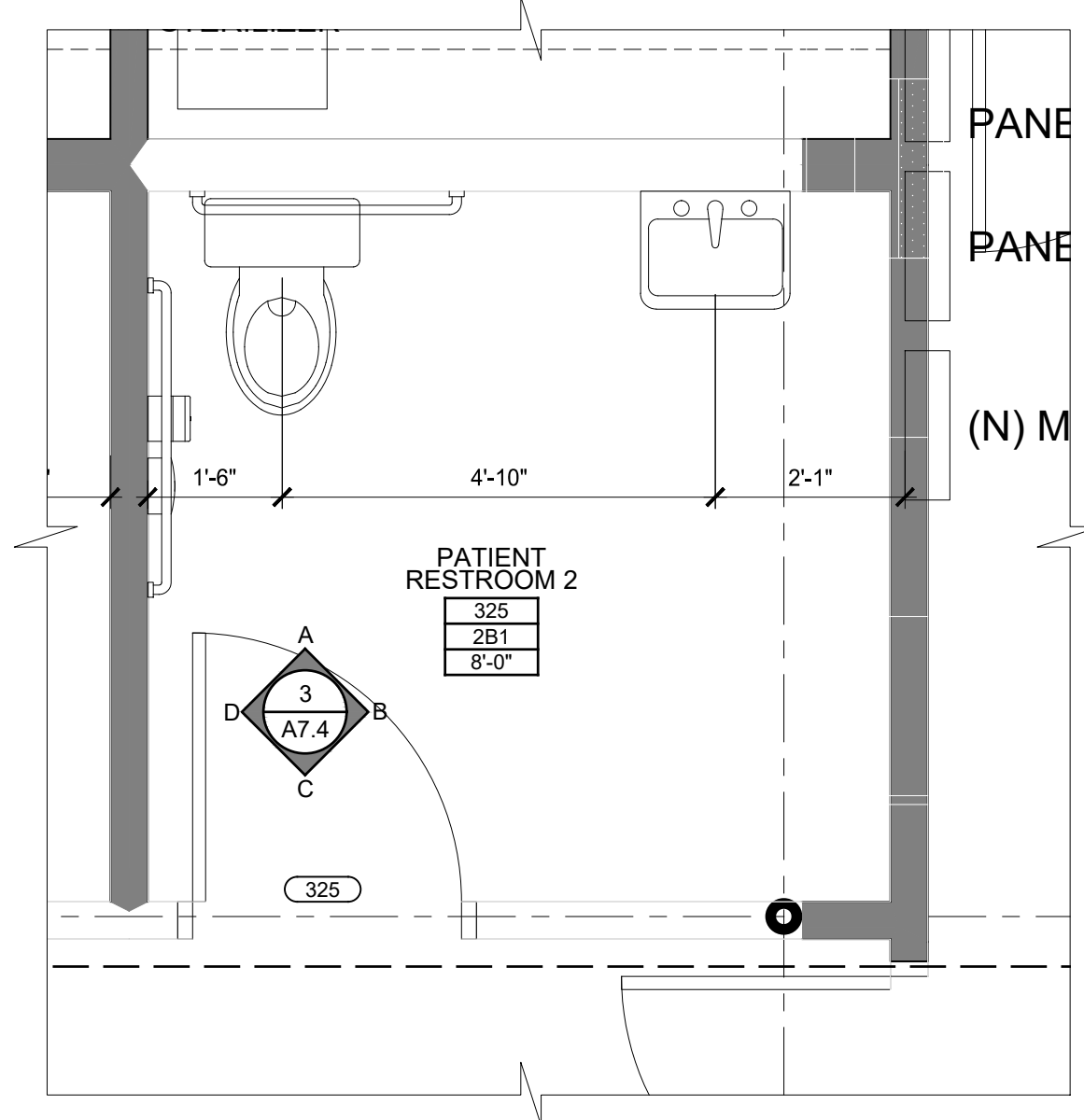
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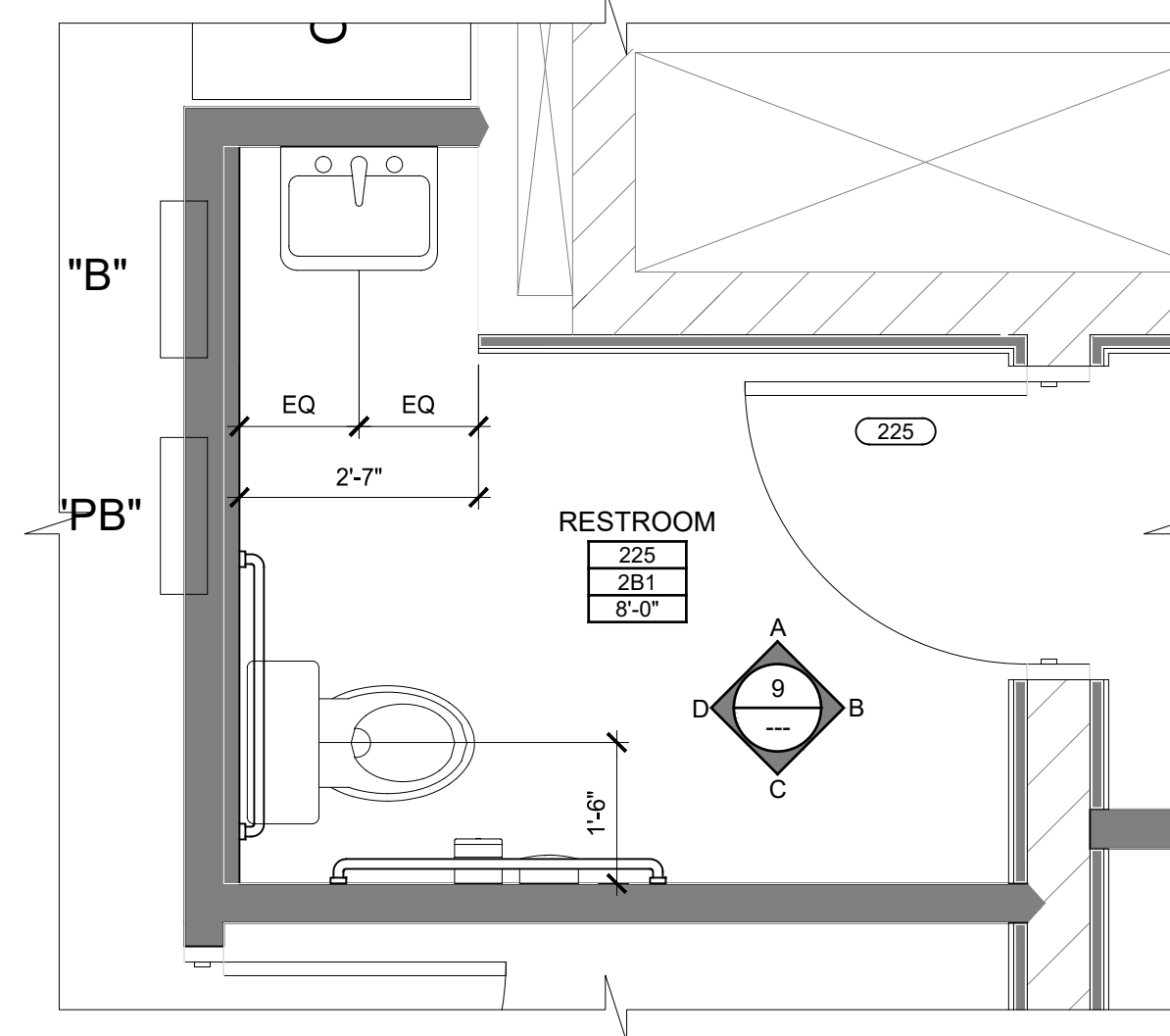
RM 327: PATIENT RESTROOM 1
SCALE: 1/2"=1'-0"

13



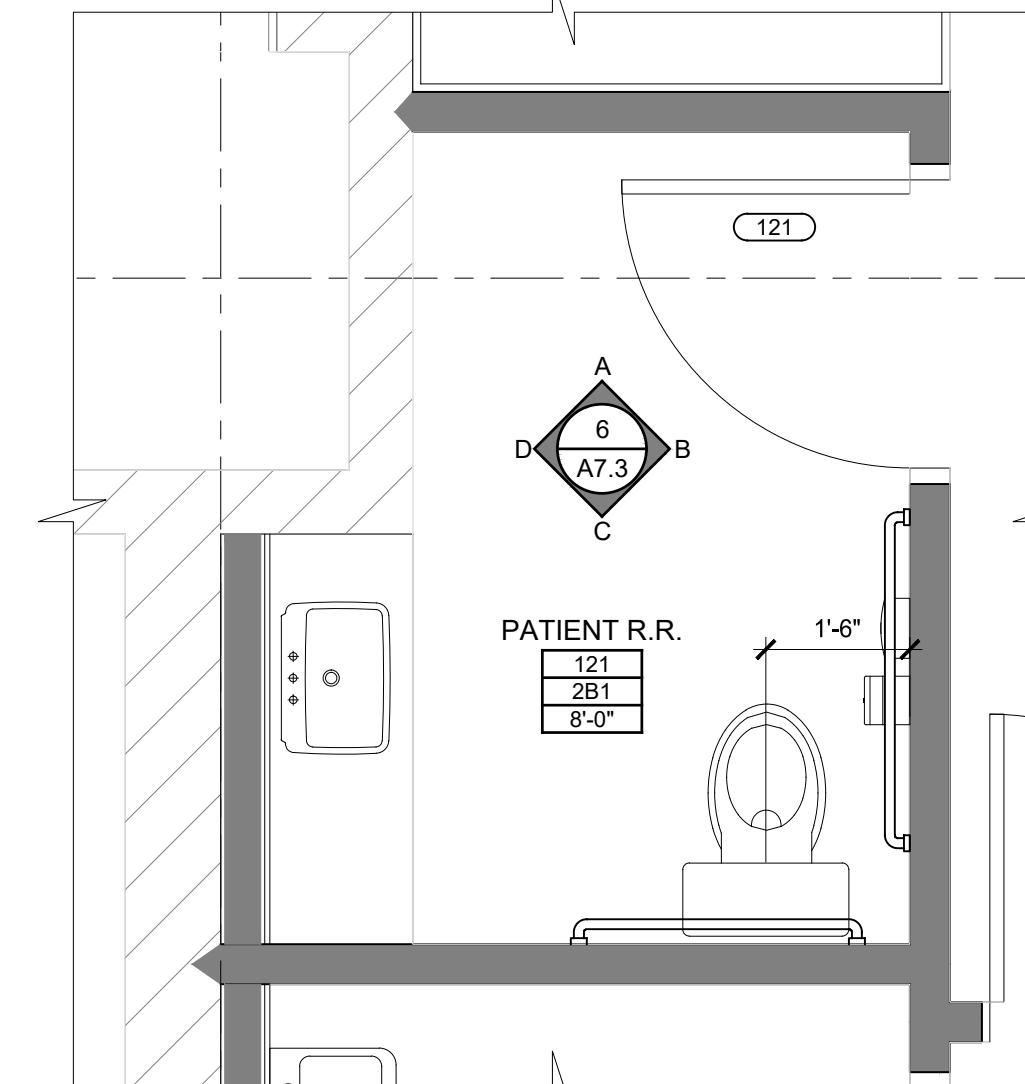
RM 325: PATIENT RESTROOM 2
SCALE: 1/2"=1'-0"

12



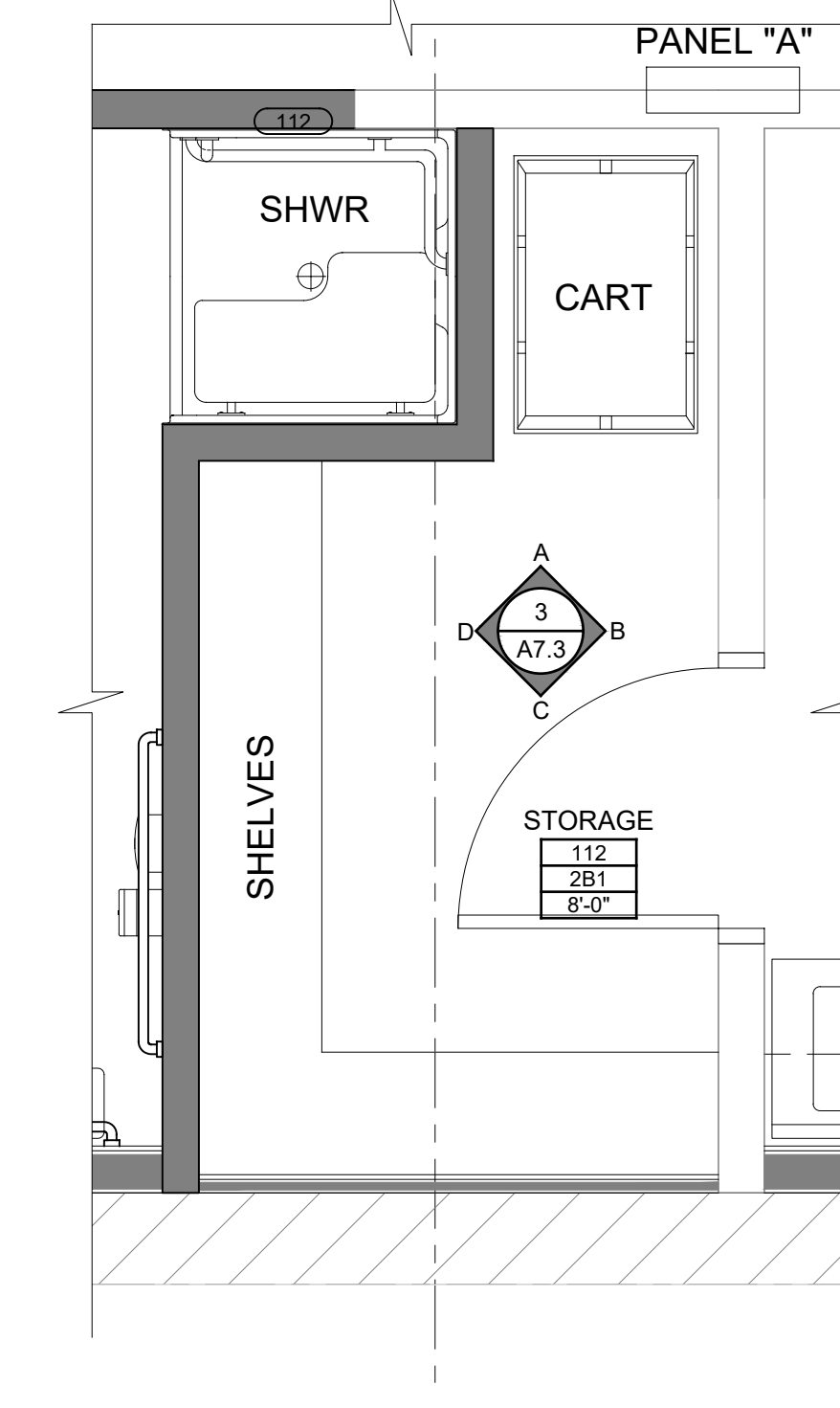
RM 225: RESTROOM
SCALE: 1/2"=1'-0"

9



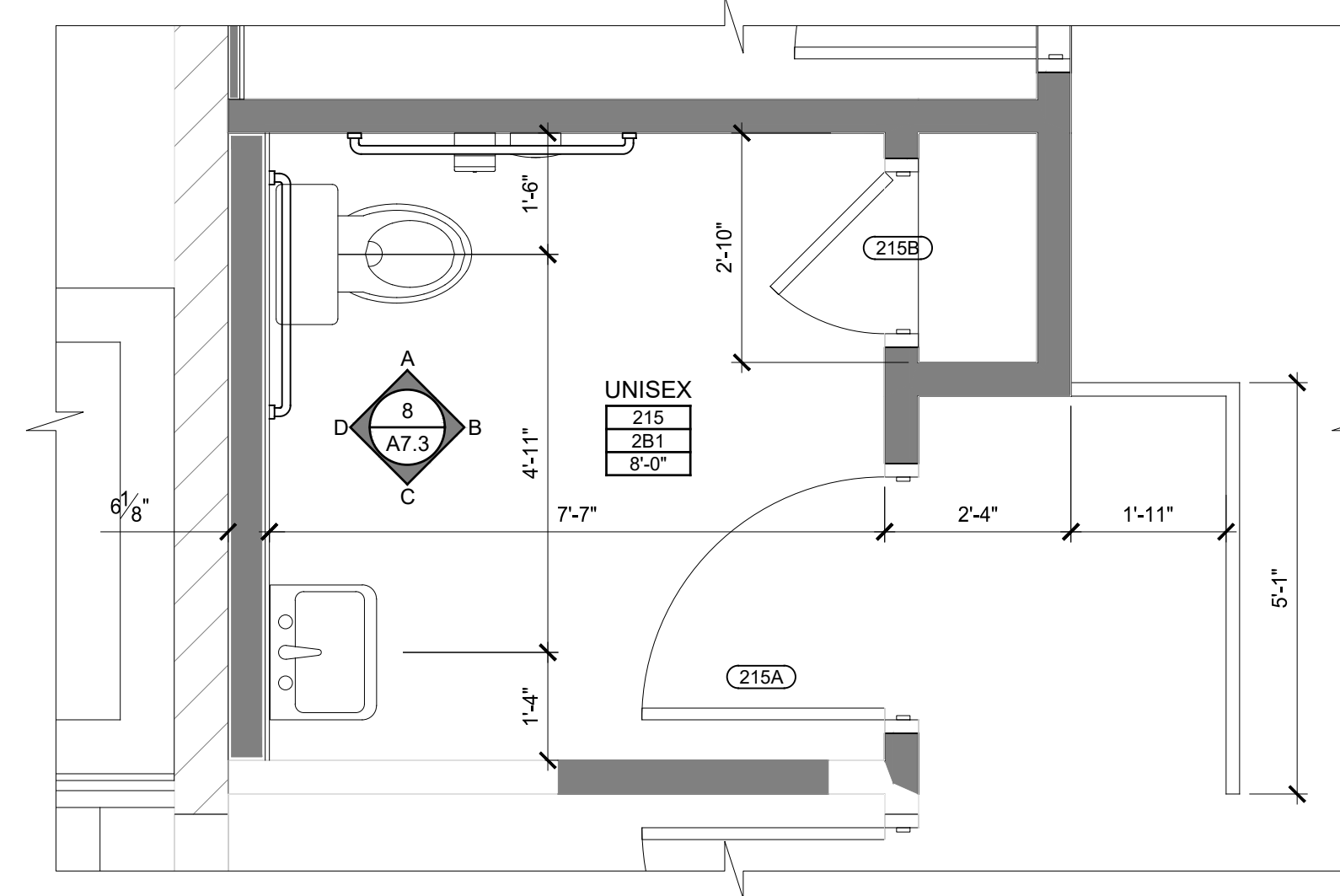
RM 121: PATIENT R.R.
SCALE: 1/2"=1'-0"

6



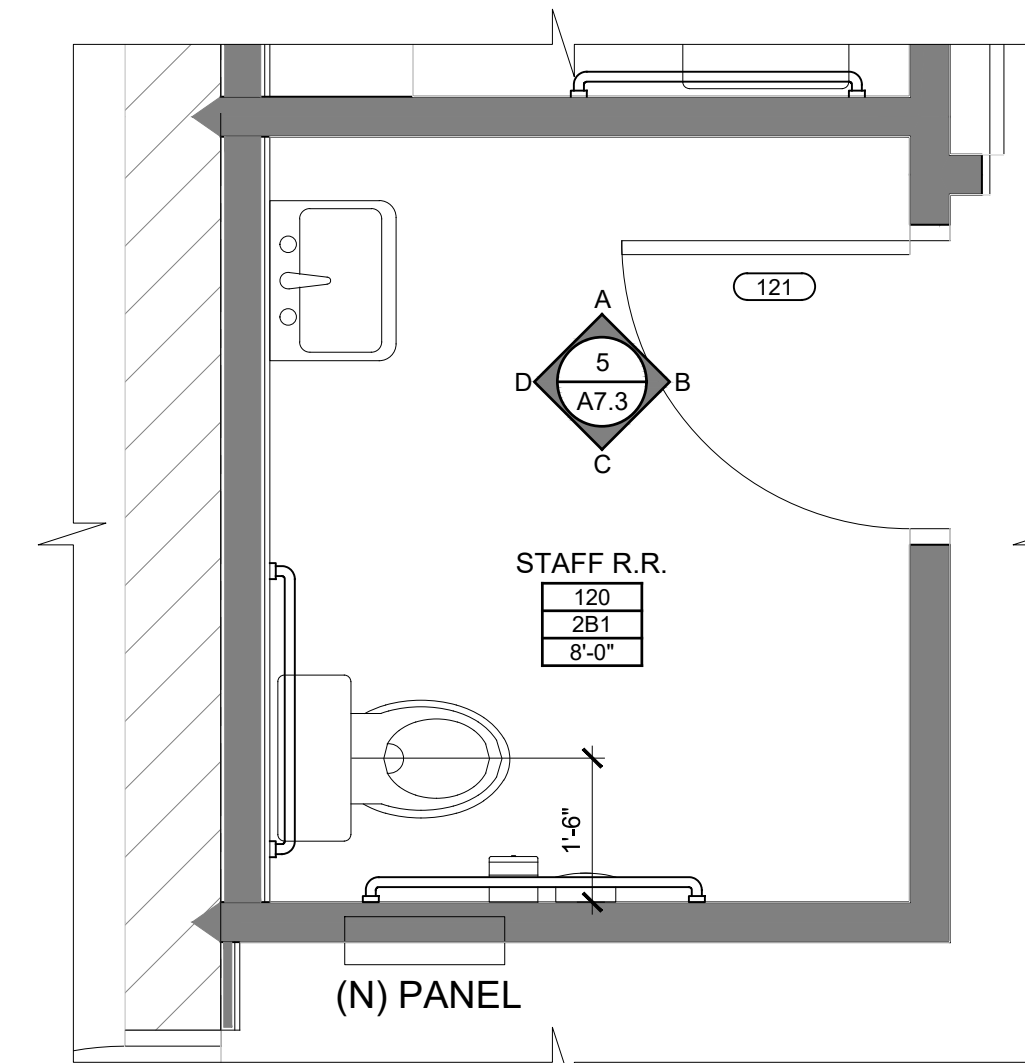
RM 112: STORAGE
SCALE: 1/2"=1'-0"

3



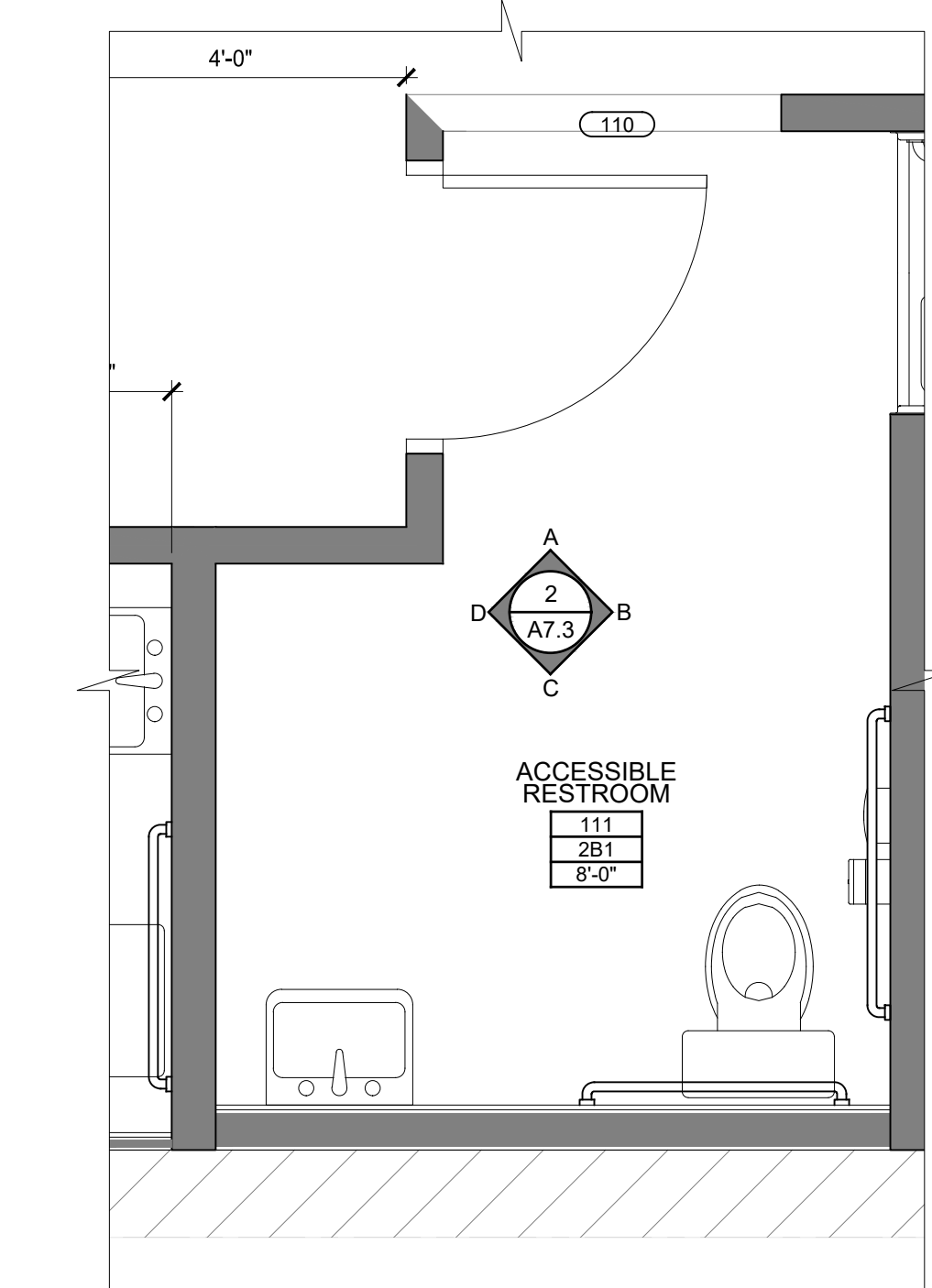
RM 215: UNISEX
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8



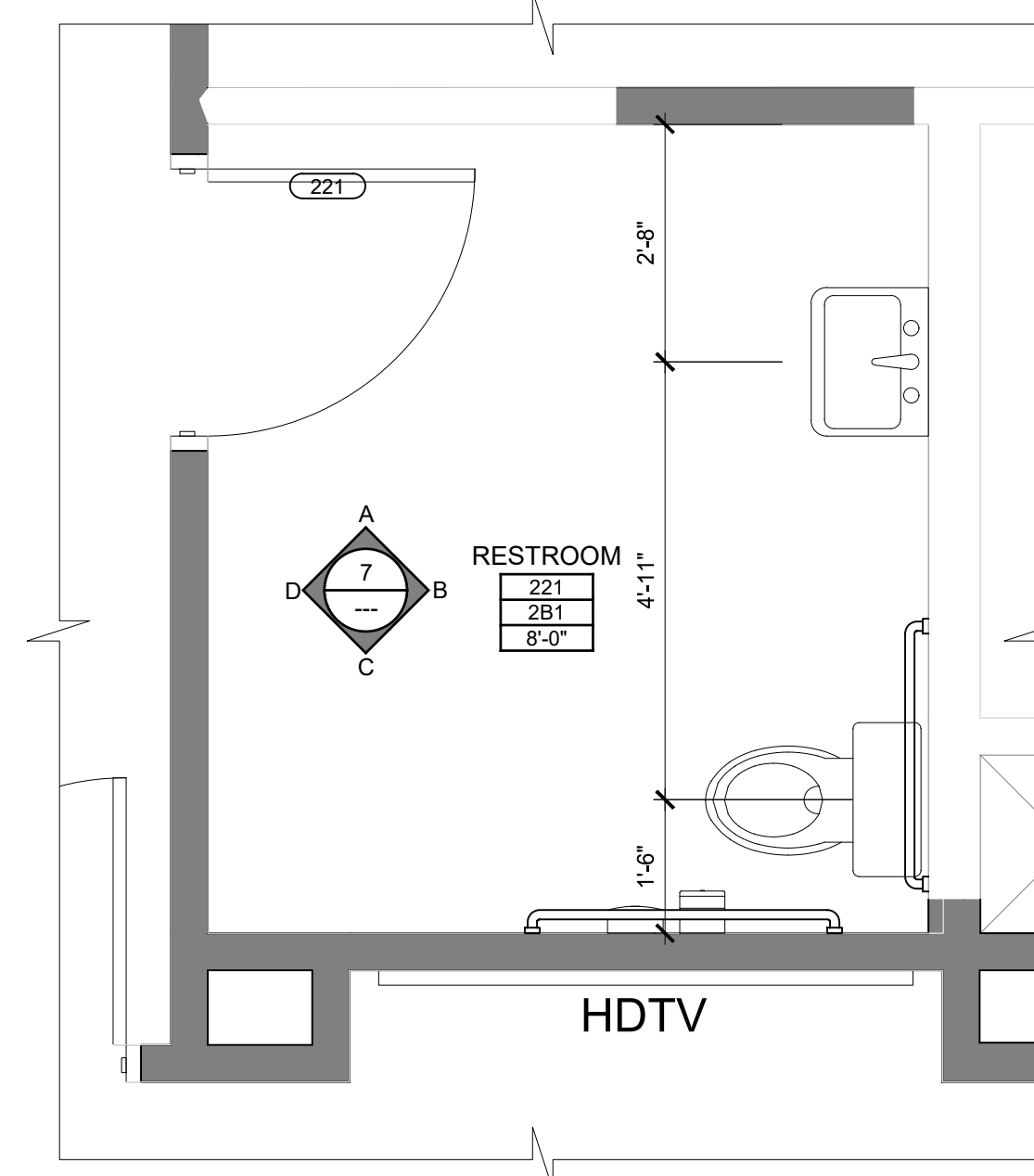
RM 120: STAFF R.R.
SCALE: 1/2"=1'-0"

5



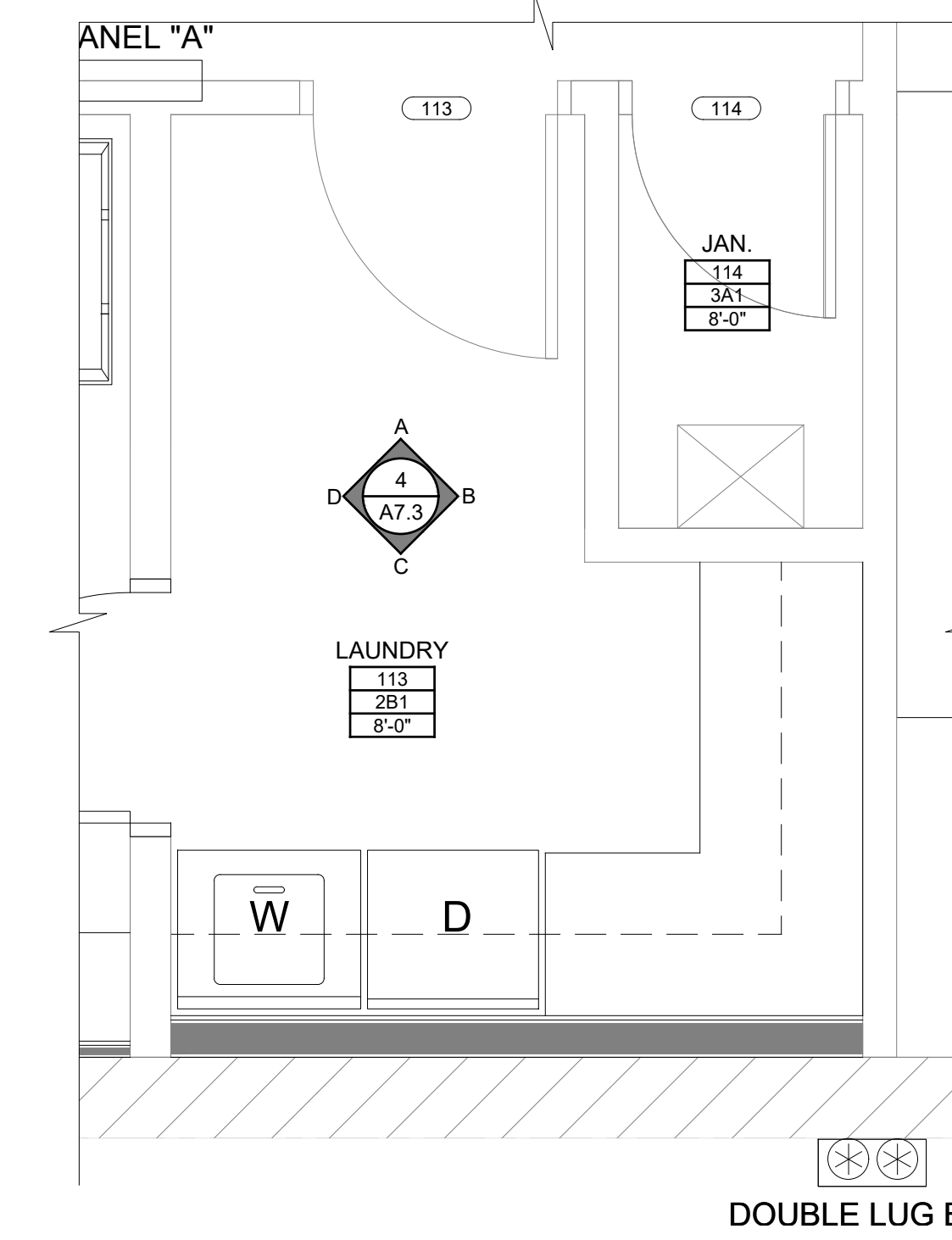
RM 111: NON ADA
SCALE: 1/2"=1'-0"

2



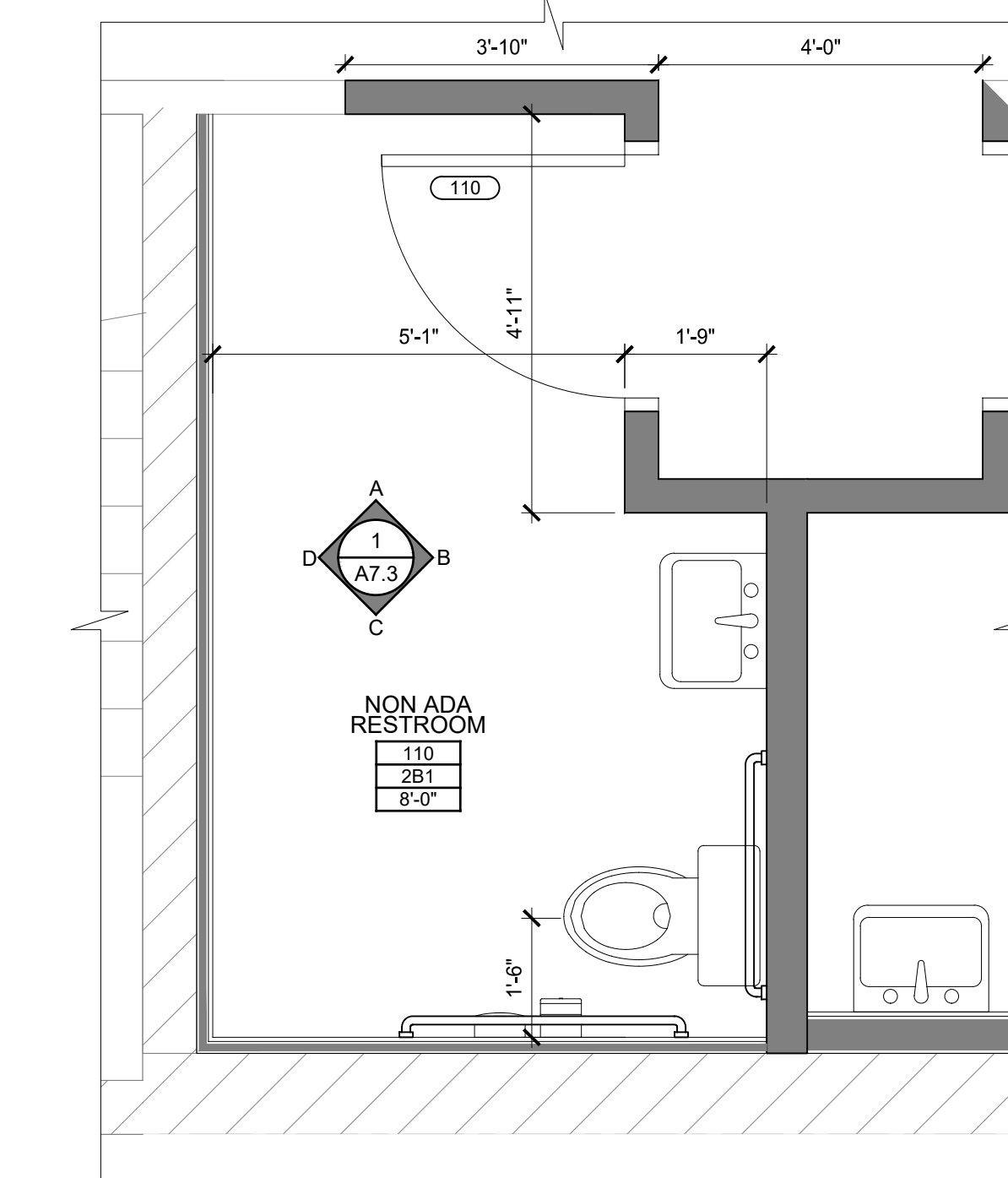
RM 221: RESTROOM
SCALE: 1/2"=1'-0"

7



RM 113: LAUNDRY
SCALE: 1/2"=1'-0"

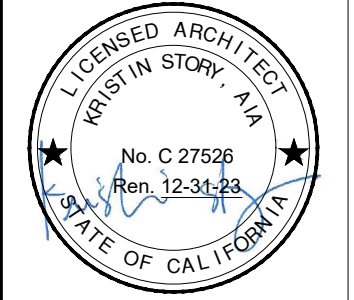
4



RM 110: NON ADA RESTROOM
SCALE: 1/2"=1'-0"

1

ENLARGED PLANS
SCALE: 1/2"=1'-0"



MILESTONE DATES:	
9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
4-22-24	PLANNING DEPT. SUBMITTAL

FINISH SCHEDULE					
ROOM NAME	FLOORING MATERIAL	BASE	WALLS/MATERIAL/COLOR	CEILING MATERIAL/COLOR	CABINET MATERIAL/COLOR
EXAM ROOM (1, 2, 3)	Alto Lavencia LAV1077 Farmhouse Smoke	BURKE: 6" Rubber (Color: 701 Black)	Wall: Sherwin Williams eggshell finish "Color TBD"	Sherwin Williams flat finish "Simple white 7021"	Plastic Laminate Counter: FORMICA 7197-58 "DOVER WHITE" Cabinet: WILSONART 7952K-18 "ASIAN SAND"
ACCESSIBLE RESTROOM	Alto Orchestra CH2818 Metal	6" Integral Cove Base	Wall: Sherwin Williams eggshell finish "Color TBD" Wainscot: American Clean Matte Ceramic Tile 4x4 "Matte Designer White 0061" See Note on Key Plan and Interior Elevations A3.1 for wainscot ht.	Sherwin Williams flat finish "Simple white 7021"	N/A
STAFF RESTROOM	Alto Orchestra CH2818 Metal	6" Integral Cove Base	Wall: Sherwin Williams eggshell finish "Color TBD" Plumbing Wall & Wainscot: American Clean Matte Ceramic Tile 4x4 "Matte Designer White 0061". See Note on Key Plan and Interior Elevations A3.1 for wainscot ht.	Sherwin Williams flat finish "Simple white 7021"	N/A
MD OFFICE 1 MD OFFICE 2 MD OFFICE 3 BILLING	Alto Lavencia LAV1077 Farmhouse Smoke	BURKE: 6" Rubber (Color: 701 Black)	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2 Sherwin Williams flat finish "Simple white 7021"	N/A
LOBBY/WAITING	Alto Lavencia LAV1077 Farmhouse Smoke	BURKE: 6" Rubber (Color: 701 Black)	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2	N/A
VEN ROOM ULTRASOUND 1 ULTRASOUND 2	Alto Lavencia LAV1077 Farmhouse Smoke	BURKE: 6" Rubber (Color: 701 Black)	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2	Plastic Laminate Counter: FORMICA 7197-58 "DOVER WHITE" Cabinet: WILSONART 7952K-18 "ASIAN SAND"
RECEPTION	Alto Lavencia LAV1077 Farmhouse Smoke	BURKE: 6" Rubber (Color: 701 Black)	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2	Lower - Formica "Storm 912-58" Upper - Caesar stone "2200PH Desert Limestone"
RECOVERY PROCEDURE ROOM	Nara Systems Inc Rubber Noraplan Senica 3mm "Waterfall" Heatwelded Seams.	6" Integral Cove Base	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2 Sherwin Williams flat finish "Simple white 7021"	N/A
HALLWAY 1 N/A WORKROOM	Alto Lavencia LAV1077 Farmhouse Smoke	BURKE: 6" Rubber (Color: 701 Black)	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2	Plastic Laminate Counter: FORMICA 7197-58 "DOVER WHITE" Cabinet: WILSONART 7952K-18 "ASIAN SAND"
CLEAN UTILITY SOILED UTILITY	Nara Systems Inc Rubber Noraplan Senica 3mm "Waterfall" Heatwelded Seams.	6" Integral Cove Base	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2	Plastic Laminate Counter: FORMICA 7197-58 "DOVER WHITE" Cabinet: WILSONART 7952K-18 "ASIAN SAND"
CLINICAL STORAGE	Nara Systems Inc Rubber Noraplan Senica 3mm "Waterfall" Heatwelded Seams.	6" Integral Cove Base	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2	N/A
BREAK ROOM	Alto Orchestra CH2818 Metal	BURKE: 6" Rubber (Color: 701 Black)	Wall: Sherwin Williams eggshell finish "Color TBD"	Lay-in 2x2	Plastic Laminate Counter: FORMICA 7197-58 "DOVER WHITE" Cabinet: WILSONART 7952K-18 "ASIAN SAND"
WH CLOSET JANITOR CLOSET	Alto Orchestra CH2818 Metal	BURKE: 6" Rubber (Color: 701 Black)	Wall: Sherwin Williams eggshell finish "Color TBD"	Sherwin Williams flat finish "Simple white 7021"	N/A



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ARCHITECT STAMP	CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA.
PLANNING # PLN2023-00327
PERMIT #:

MILESTONE DATES:	
9-22-23	PLANNING DEPT. SUBMITTAL
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PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
FINISH SCHEDULE

DATE: 12-30-22
DRAWN BY: KEVIN M. MURPHY
JOB NUMBER: 22004

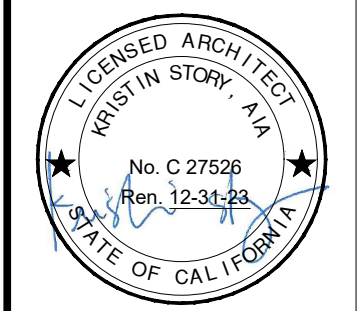
SHEET ___ of ___
A7.0

FINISH SCHEDULE
NO SCALE

GENERAL NOTES (THIS SHEET ONLY)

- FOR FINISH SCHEDULE, SEE _____
- CONTRACTOR SHALL VERIFY W/ OWNER/USER THAT LOCATION IS ACCEPTABLE FOR CUBICLE CURTAIN TRACK NOTIFY ARCHITECT IMMEDIATELY IF LOCATION IS NOT ACCEPTABLE TO OWNER/USER.
- PROVIDE CUBICLE CURTAIN TRACK PER RCP AND DETAIL _____
- ALL CABINETS TO BE FRAMELESS, WIC STANDARD, UNO WITH 2" CONCEALED EDGE AT UPPIERS FOR CONCEALED UNDER CABINET LIGHTING.
- PROVIDE DRIPLESS EDGE AT ALL PLASTIC LAMINATE COUNTERTOPS WITH SINKS.
- PROVIDE BULLNOSE EDGE AT ALL PLASTIC LAMINATE COUNTERTOPS WITHOUT SINKS.
- AT SINKS IN BASE CABINETS, DOORS SHALL FULLY OPEN 90 DEGREES TO ALLOW ROLL-UNDER ACCESS IF REQUIRED.
- ALL EXPOSED PIPES SHALL BE WRAPPED PER 11B-606.5. THIS INCLUDES PIPES INSIDE BASE CABINETS ALLOWING ROLL-UNDER ACCESS.

ARCHITECT STAMP CONSULTANT STAMP



AGENCY APPROVAL: CITY OF SANTA BARBARA.
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93105

SHEET TITLE:
INTERIOR ELEVATIONS

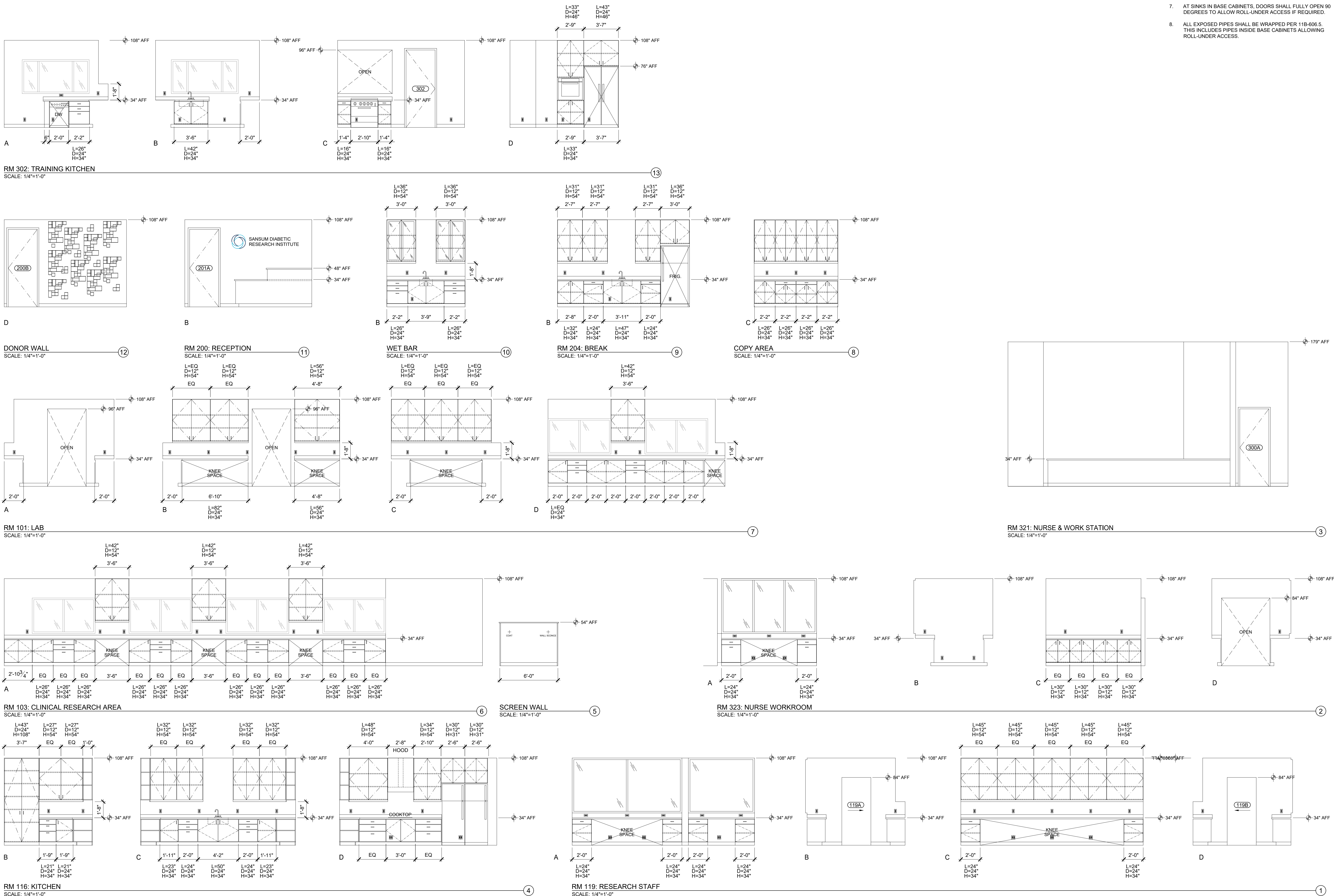
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET ___ of ___

A7.1



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

Drawing name: C:\Users\Kevin\OneDrive - onestory architect\Story\22004 Sansum Diabetes Research Institute\22004_SDR1 INTERIOR ELEVATIONS.dwg
 PLOT DATE: Apr 22, 2024, 9:50am
 PLOT BY: Kevin

Drawing name: C:\Users\Kevin\OneDrive - onestory architect\Story\22004 Sansum Diabetes Research Institute\22004_SDR1 INTERIOR ELEVATIONS.dwg
 PLOT DATE: Apr 22, 2024 - 9:50am
 PLOT BY: Kevin

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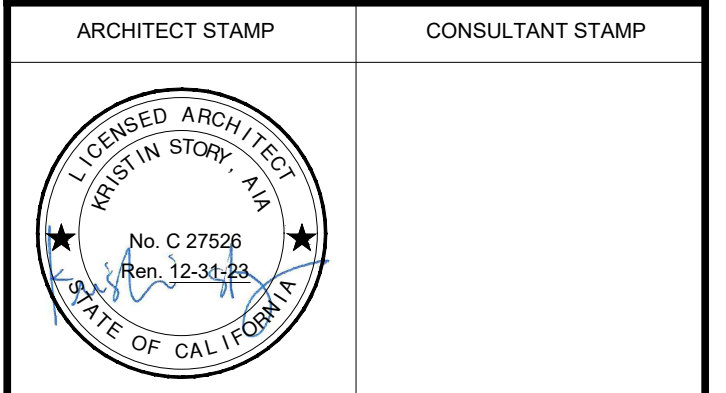


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 SANTA BARBARA, CA 93105

SHEET TITLE:
 INTERIOR ELEVATIONS

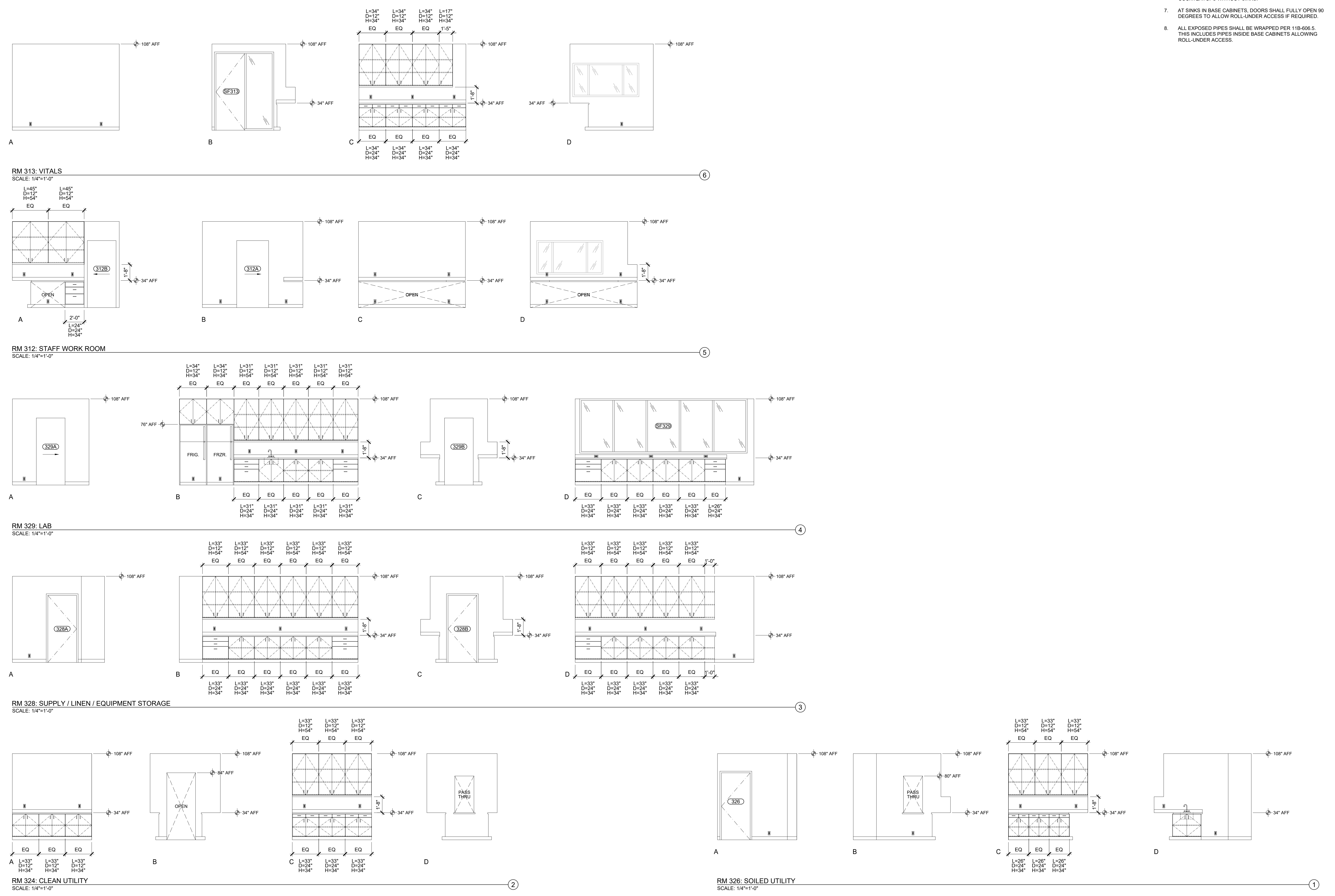
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET ___ of ___

A7.2



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

1

RM 326: SOILED UTILITY
 SCALE: 1/4"=1'-0"

2

RM 324: CLEAN UTILITY
 SCALE: 1/4"=1'-0"

5

6

GENERAL NOTES (THIS SHEET ONLY)

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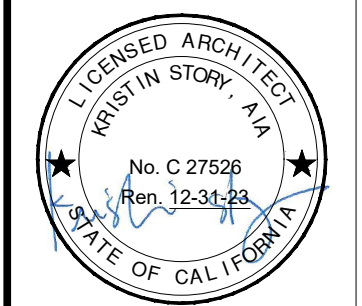
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Electrical Engineering Lighting Design

ARCHITECT STAMP CONSULTANT STAMP



AGENCY APPROVAL: CITY OF SANTA BARBARA.
PLANNING # PLN2023-00327
PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
10-2-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
4-22-24 PLANNING DEPT. SUBMITTAL

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PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
INTERIOR ELEVATIONS

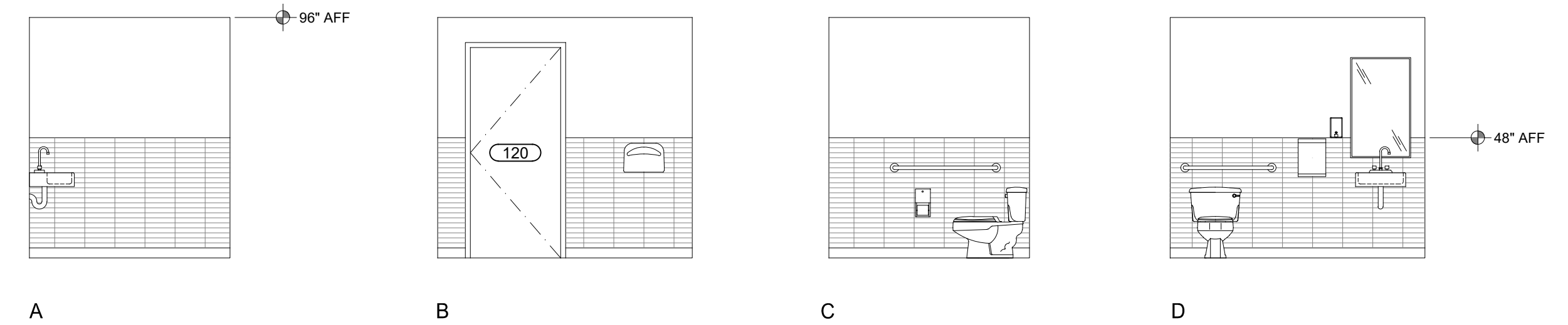
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

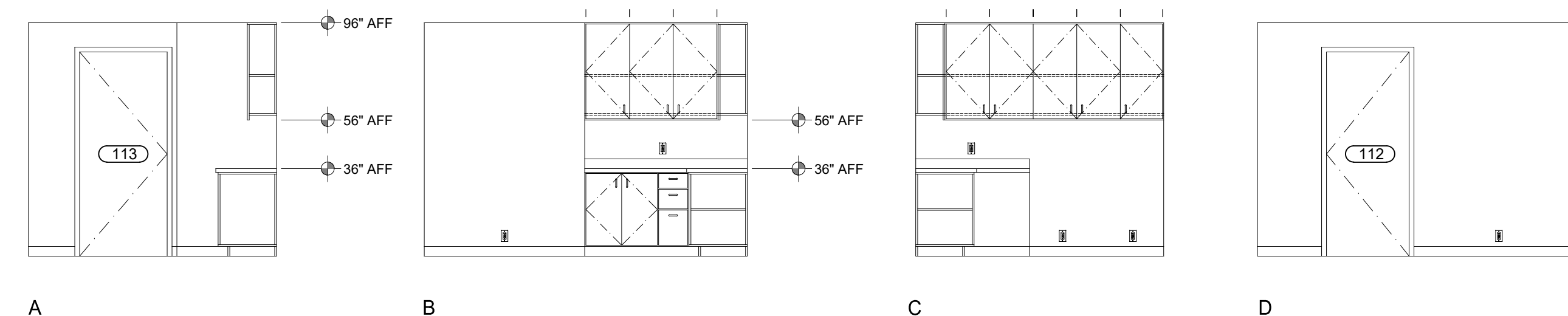
JOB NUMBER: 22004

SHEET ___ of ___

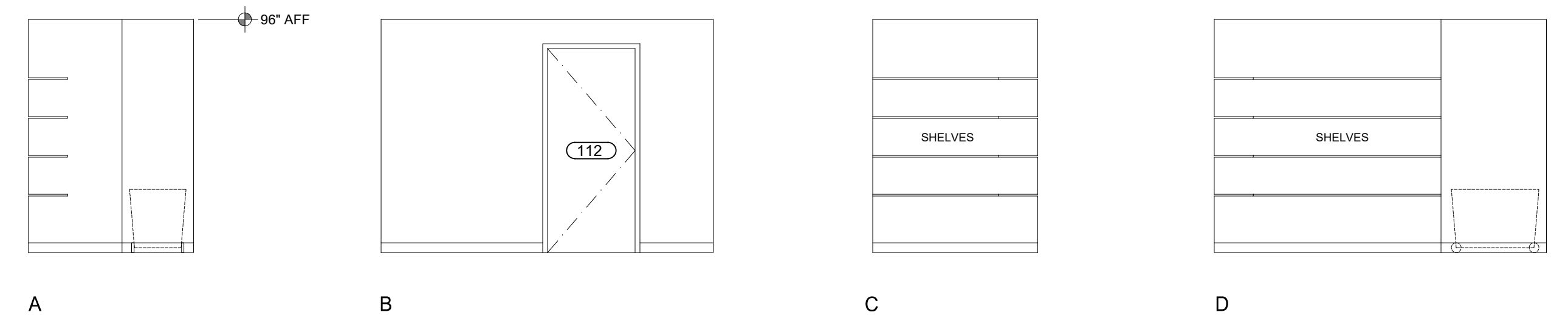
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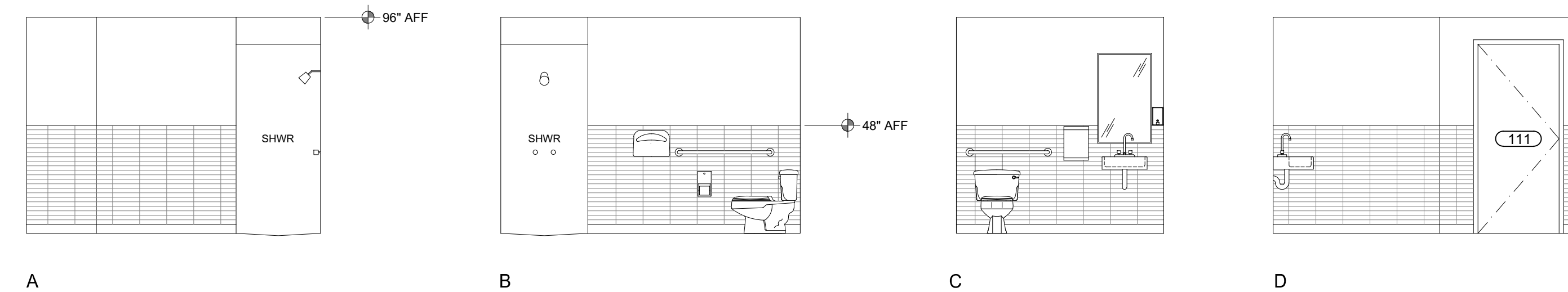
ROOM 120: STAFF R.R.
SCALE: 1/4"=1'-0" 5



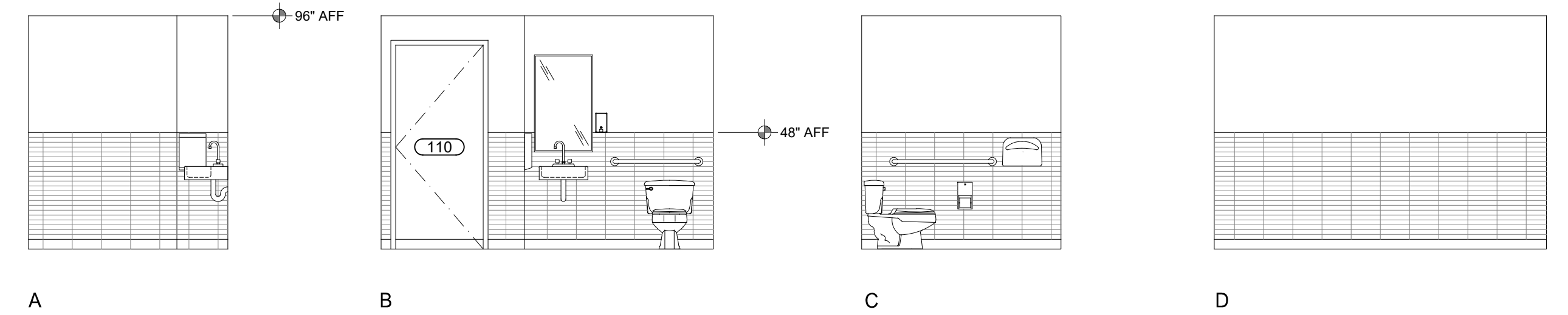
RM 113: LAUNDRY
SCALE: 1/4"=1'-0" 4



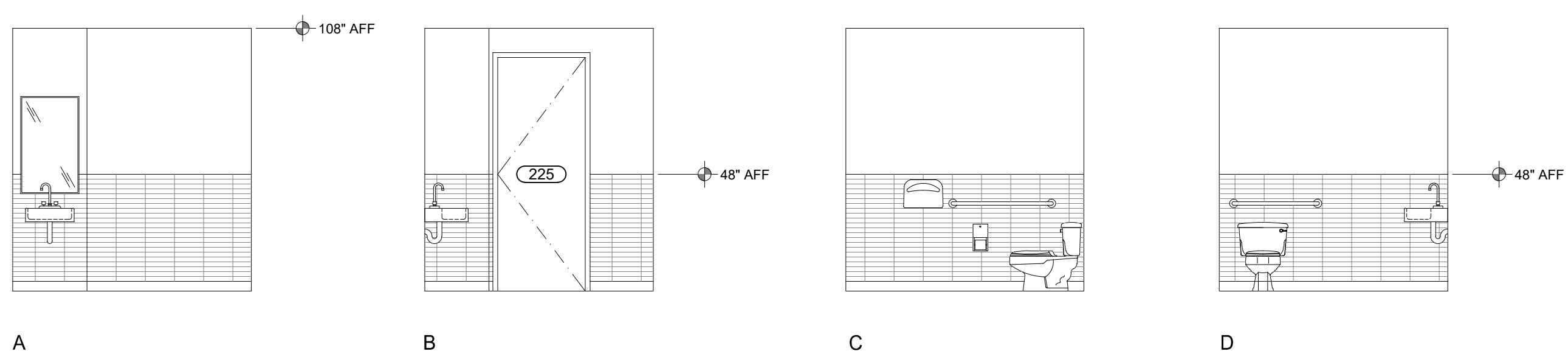
RM 112: STORAGE
SCALE: 1/4"=1'-0" 3



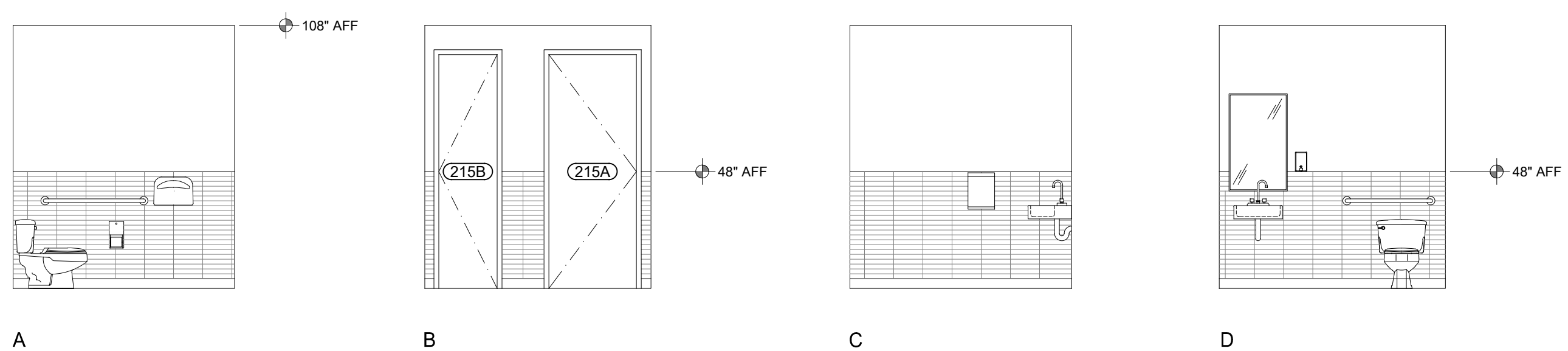
RM 111: ACCESSIBLE RESTROOM
SCALE: 1/4"=1'-0" 2



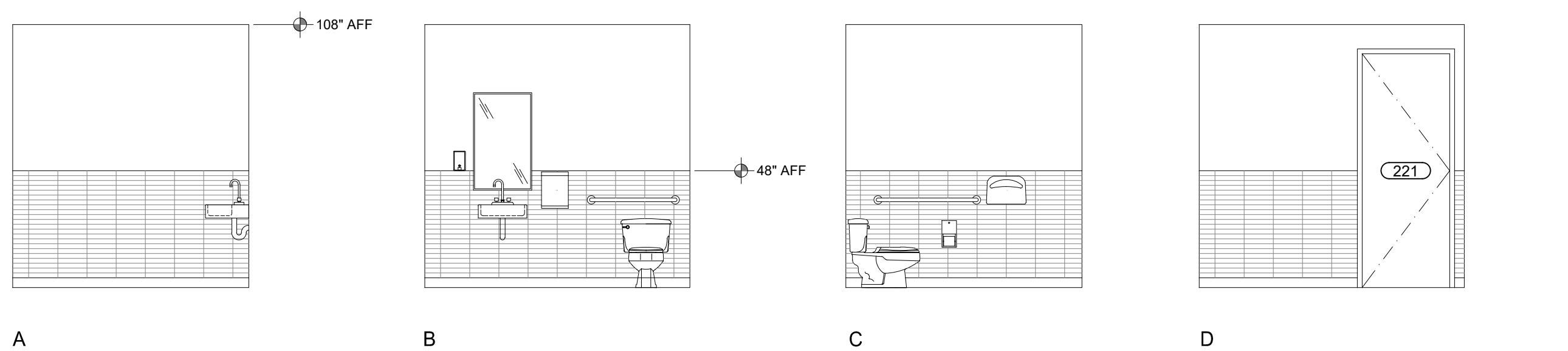
RM 110: NON ADA RESTROOM
SCALE: 1/4"=1'-0" 1



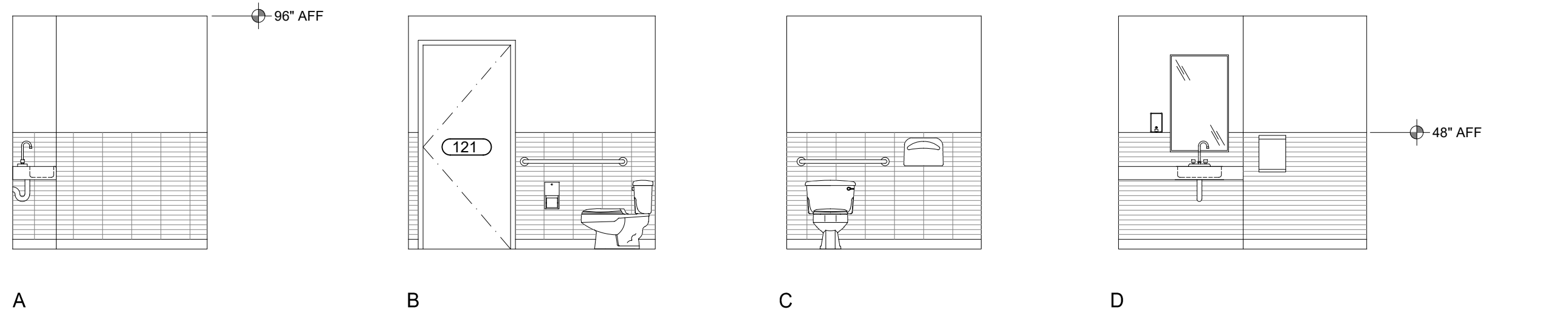
RM 225: RESTROOM
SCALE: 1/4"=1'-0" 9



RM 215: UNISEX
SCALE: 1/4"=1'-0" 8



RM 221: RESTROOM
SCALE: 1/4"=1'-0" 7



ROOM 121: PATIENT R.R.
SCALE: 1/4"=1'-0" 6

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

Drawing name: C:\Users\Kevin\OneDrive - onestory architect\Story\22004 Sansum Diabetes Research Institute\22004_SDR1 INTERIOR ELEVATIONS.dwg
 PLOT DATE: Apr 22, 2024 - 9:51am
 PLOT BY: Kevin

GENERAL NOTES (THIS SHEET ONLY)

- FOR FINISH SCHEDULE, SEE _____.
- CONTRACTOR SHALL VERIFY W/ OWNER/USER THAT LOCATION IS ACCEPTABLE FOR CUBICLE CURTAIN TRACK. NOTIFY ARCHITECT IMMEDIATELY IF LOCATION IS NOT ACCEPTABLE TO OWNER/USER.
- PROVIDE CUBICLE CURTAIN TRACK PER RCP AND DETAIL _____.
- ALL CABINETS TO BE FRAMELESS, W/IC STANDARD, UNO WITH 2" CONCEALED EDGE AT UPPERS FOR CONCEALED UNDER CABINET LIGHTING.
- PROVIDE DRIPLESS EDGE AT ALL PLASTIC LAMINATE COUNTERTOPS WITH SINKS.
- PROVIDE BULLNOSE EDGE AT ALL PLASTIC LAMINATE COUNTERTOPS WITHOUT SINKS.
- AT SINKS IN BASE CABINETS, DOORS SHALL FULLY OPEN 90 DEGREES TO ALLOW ROLL-UNDER ACCESS IF REQUIRED.
- ALL EXPOSED PIPES SHALL BE WRAPPED PER 11B-606.5. THIS INCLUDES PIPES INSIDE BASE CABINETS ALLOWING ROLL-UNDER ACCESS.

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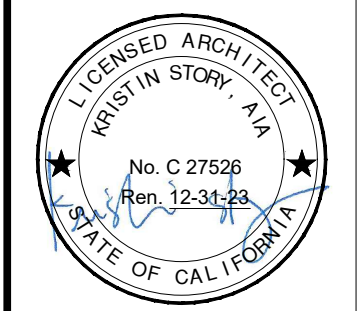
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EC
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INSTITUTE**
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SANTA BARBARA, CA
93105

SHEET TITLE:
INTERIOR ELEVATIONS

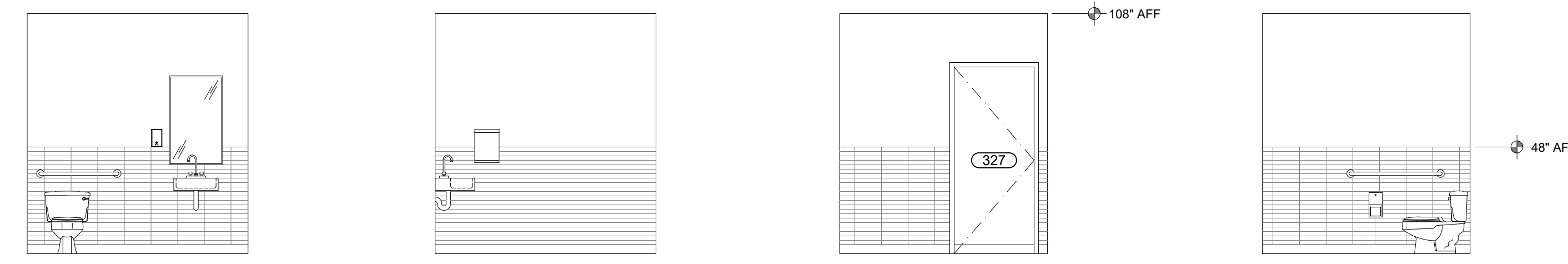
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

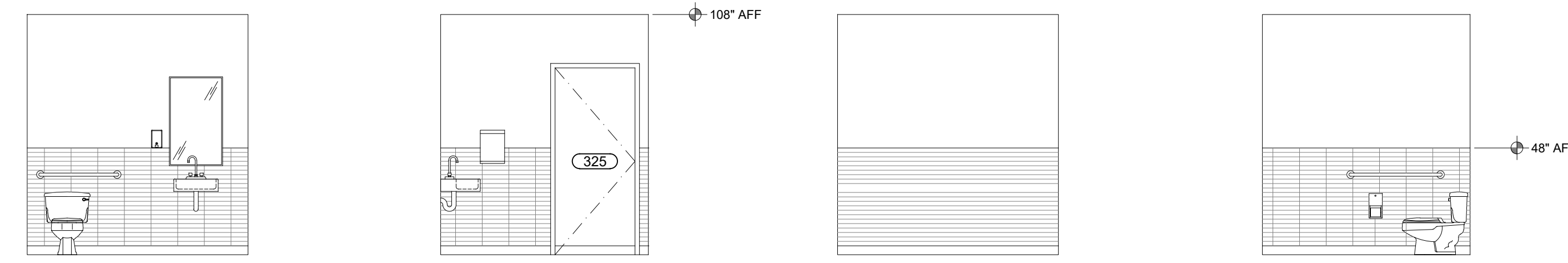
JOB NUMBER: 22004

SHEET ___ of ___

A7.4



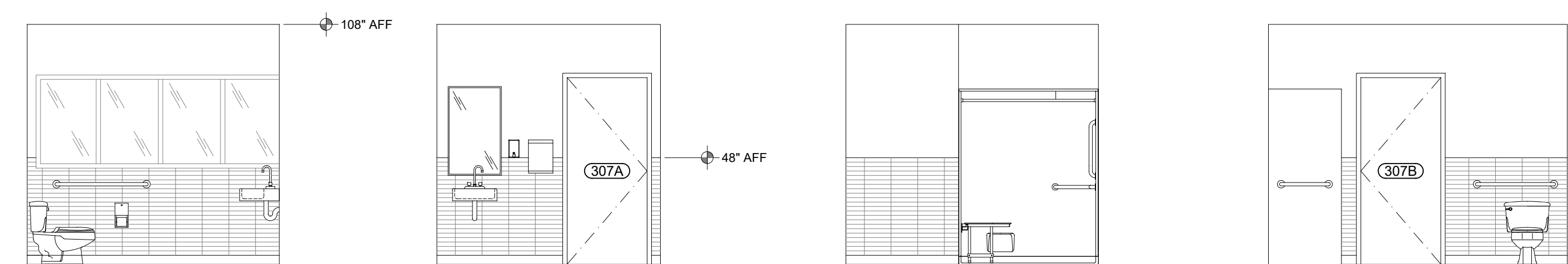
RM 327: PATIENT RESTROOM 1
SCALE: 1/4"=1'-0" ④



RM 325: PATIENT RESTROOM 2
SCALE: 1/4"=1'-0" ③



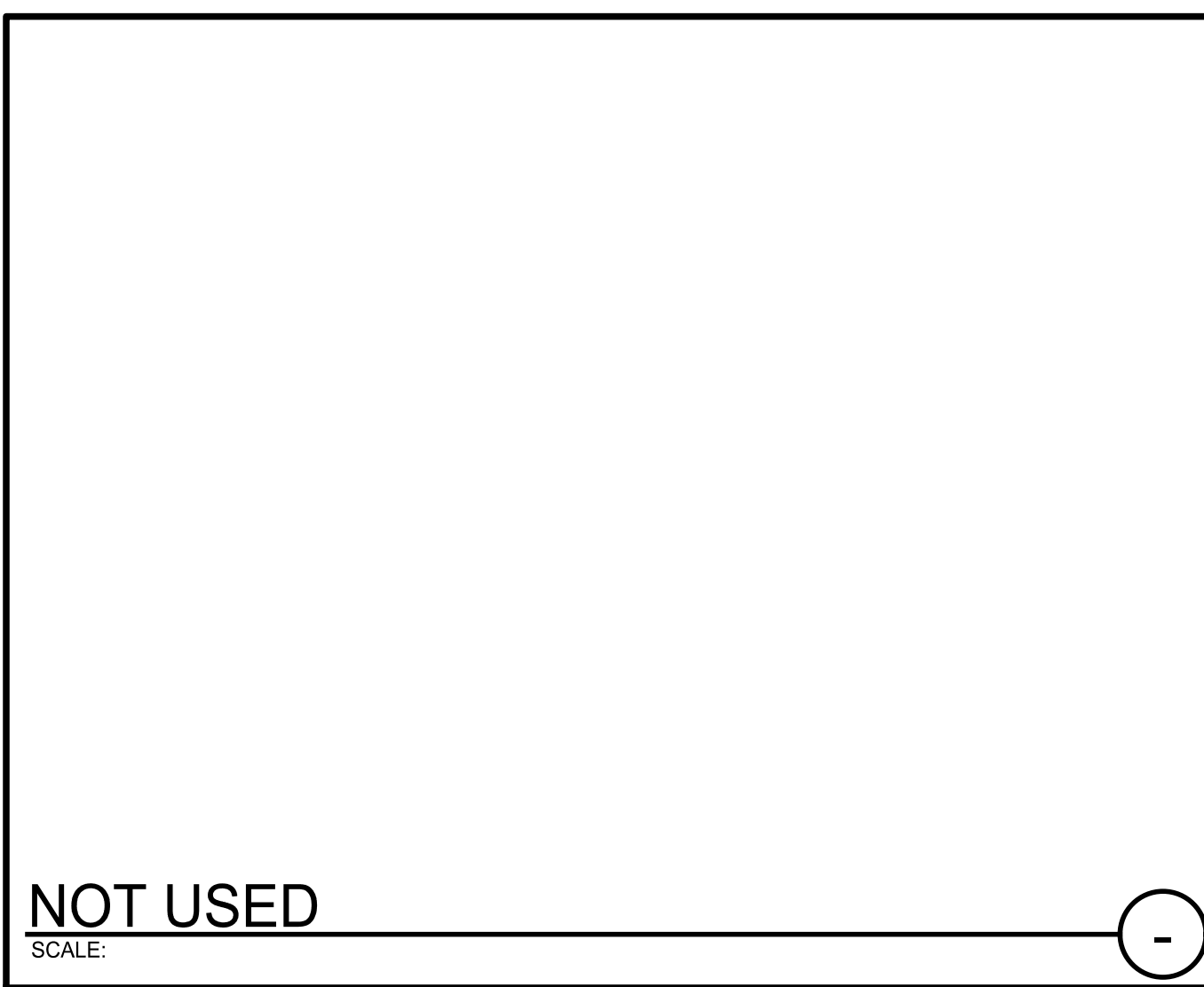
RM 322: STAFF RESTROOM 1
SCALE: 1/4"=1'-0" ②



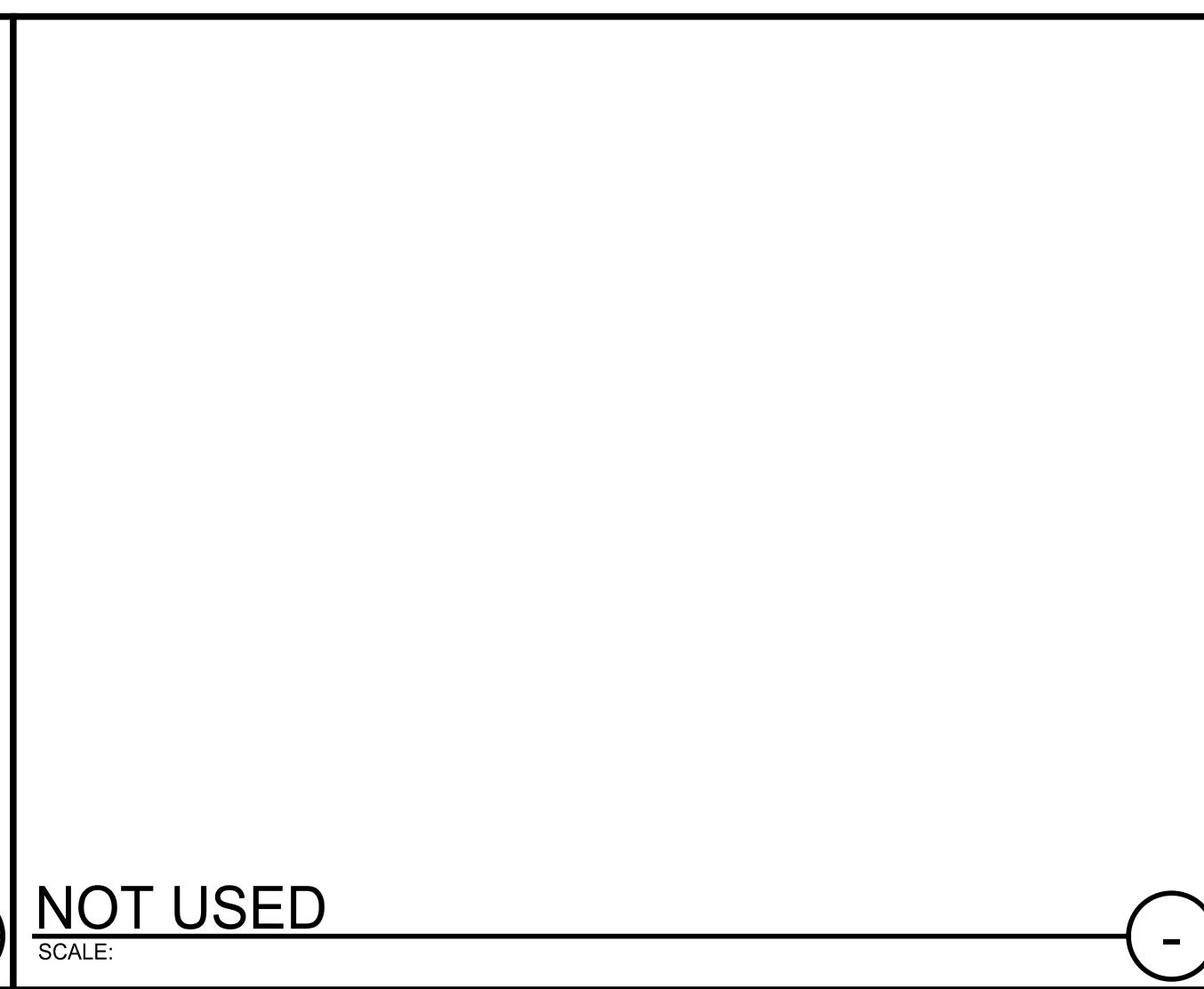
RM 307: PATIENT RESTROOM 3
SCALE: 1/4"=1'-0" ①

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

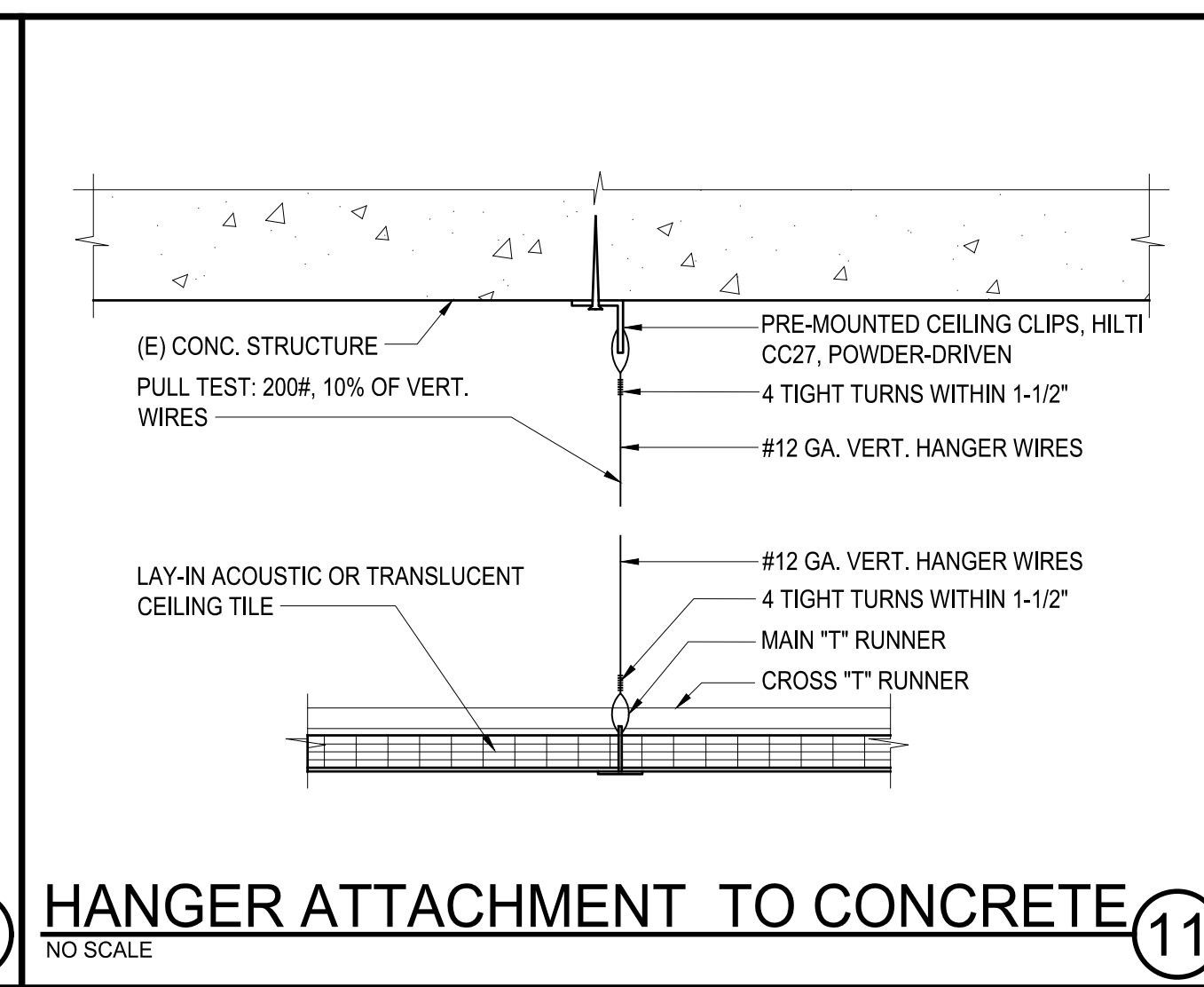
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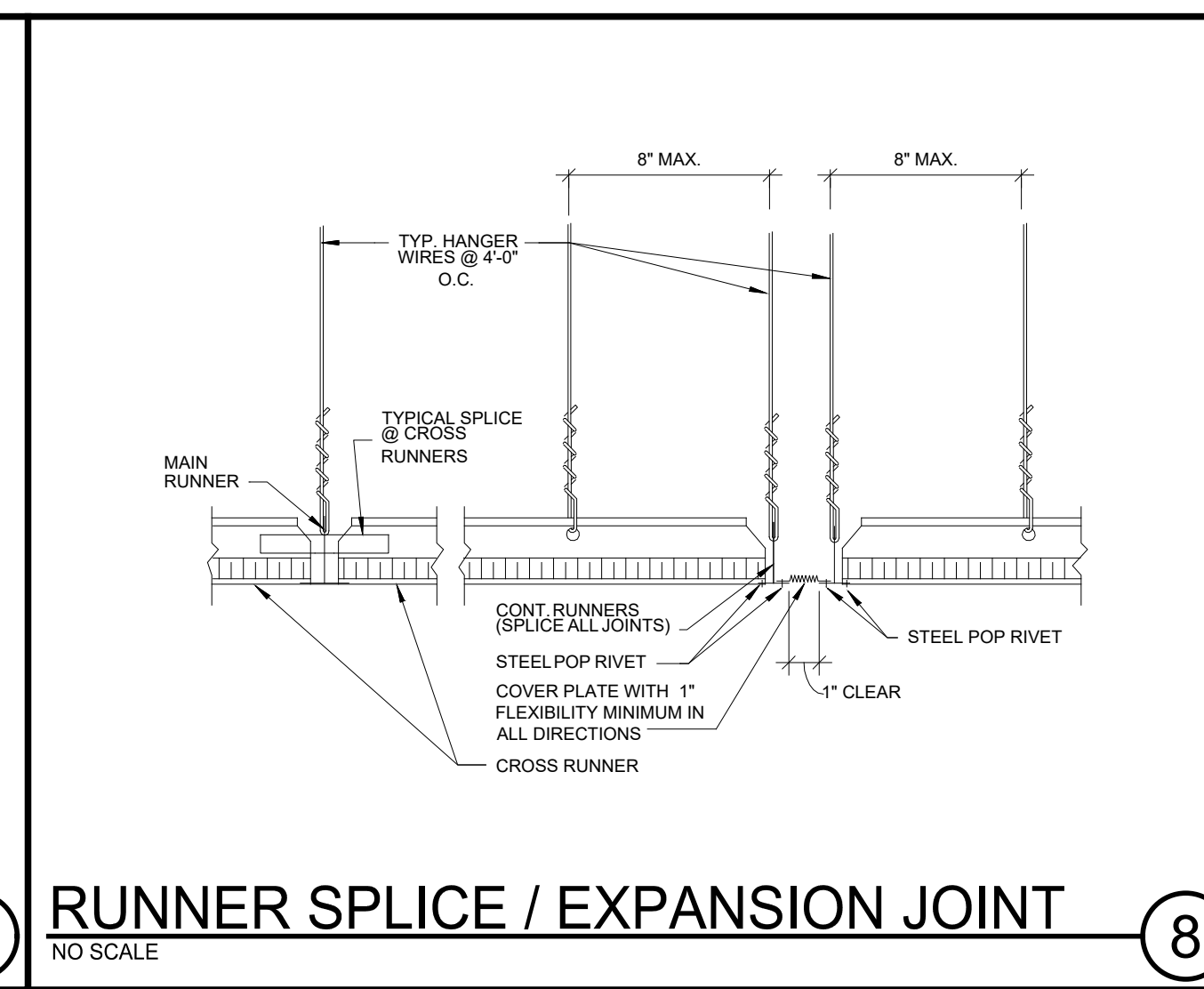
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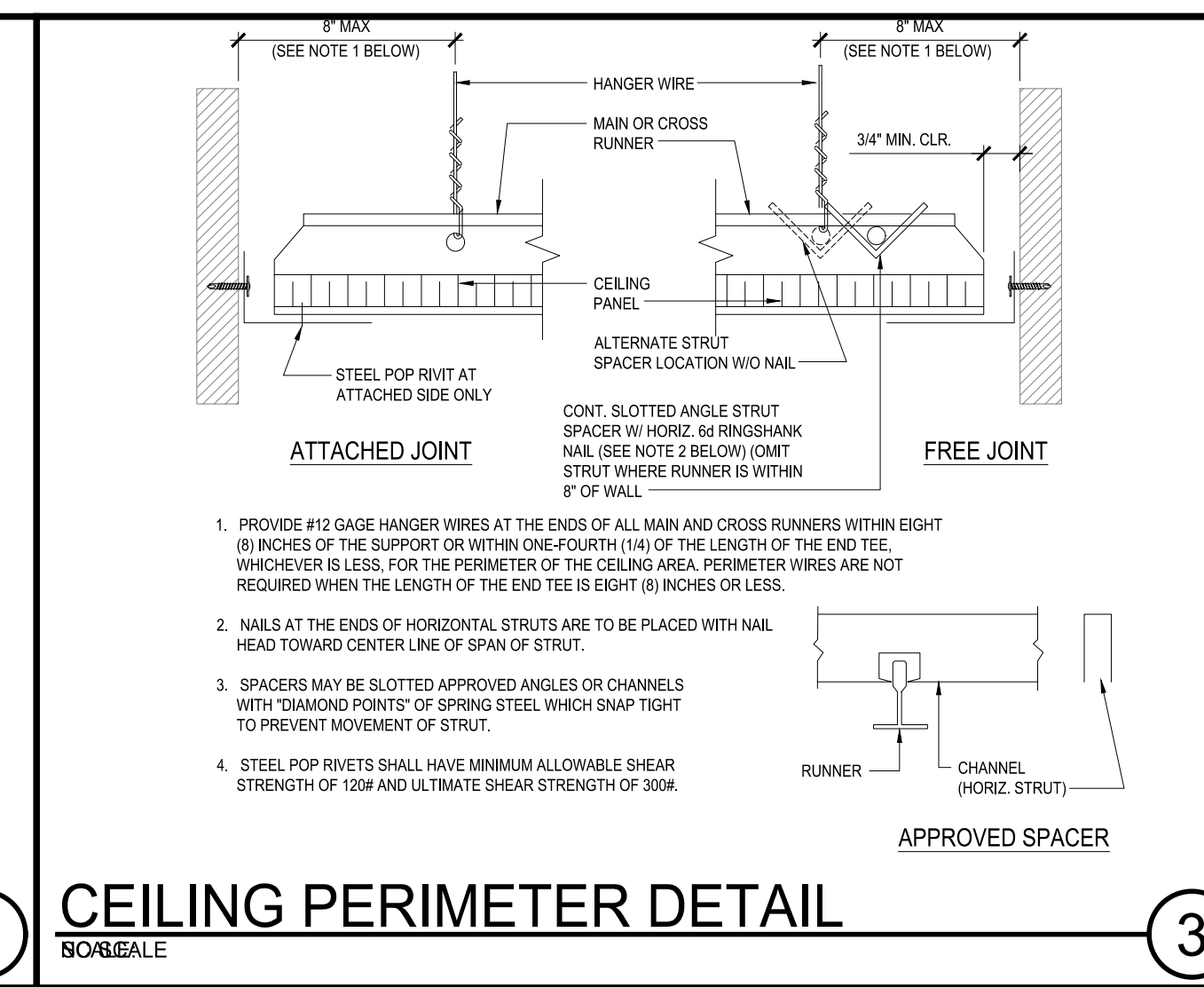
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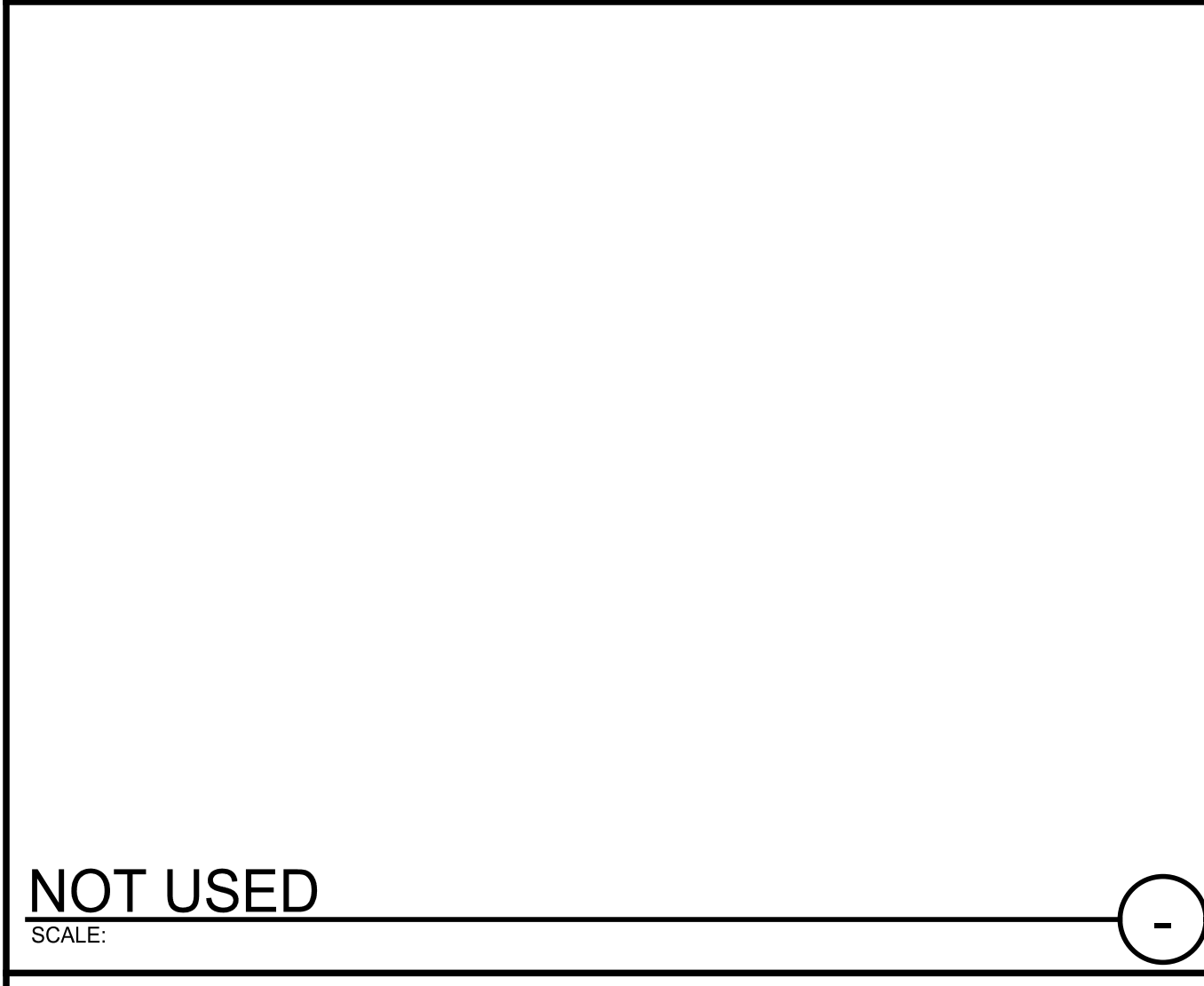
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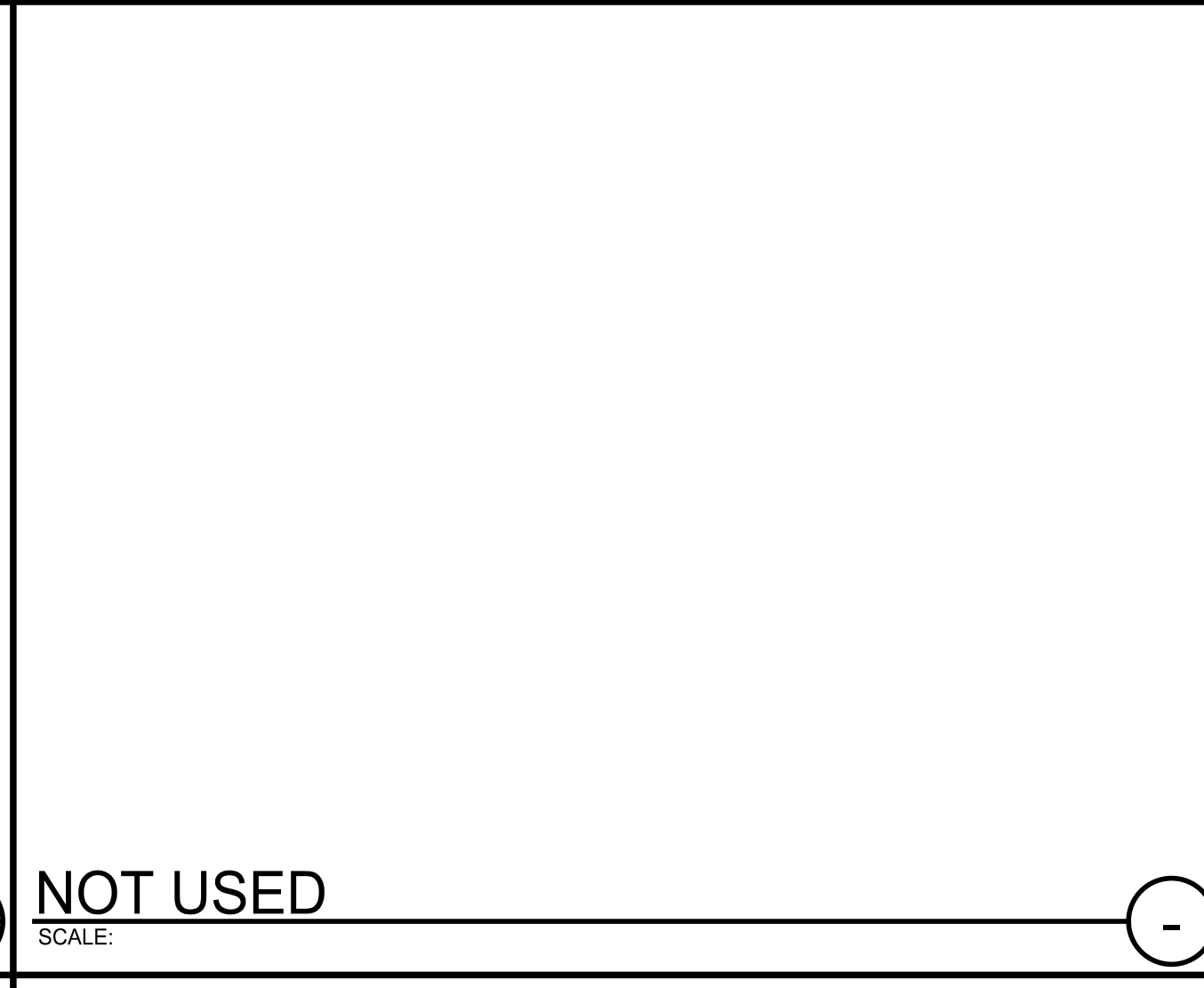
RUNNER SPLICE / EXPANSION JOINT
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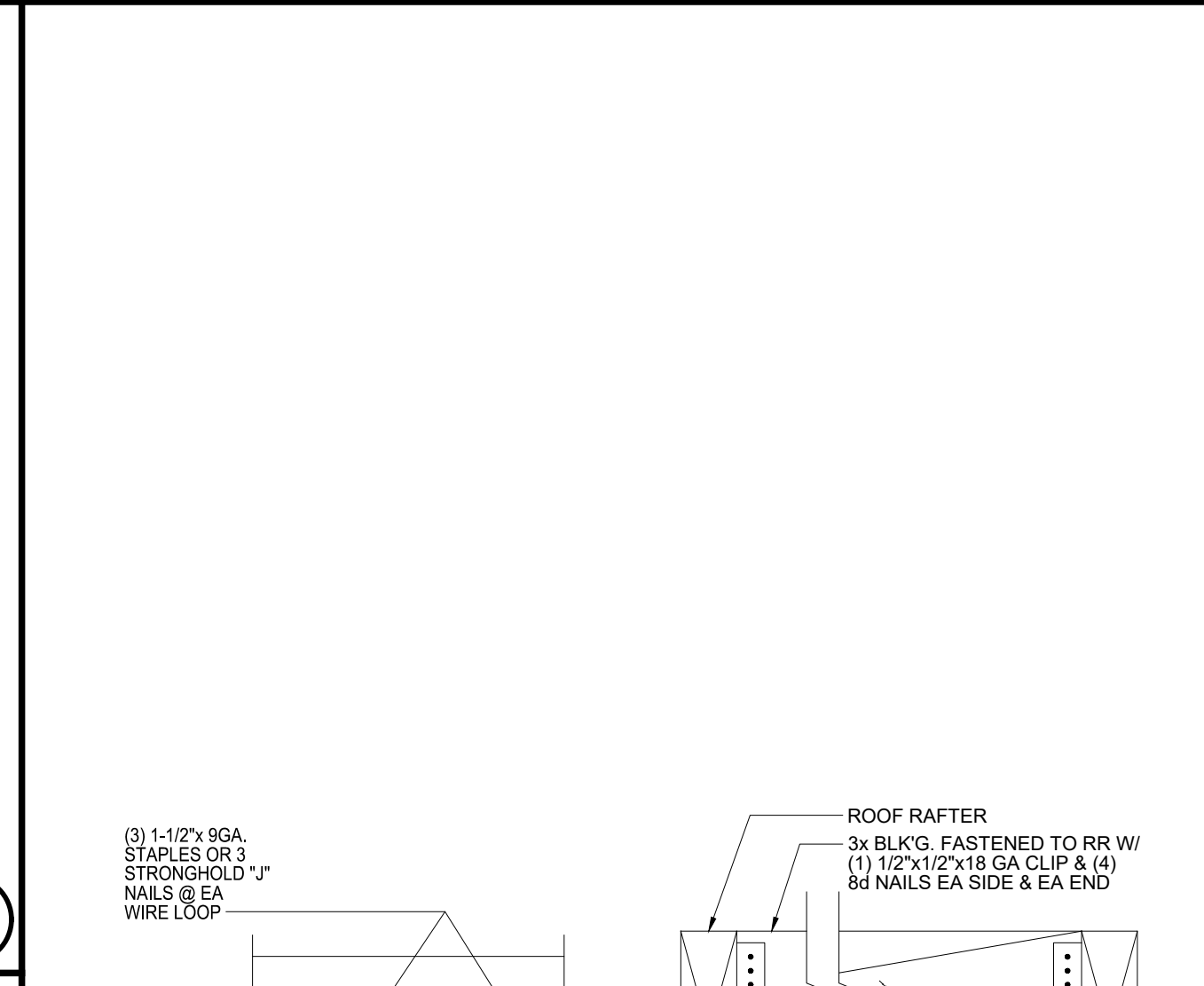
CEILING PERIMETER DETAIL
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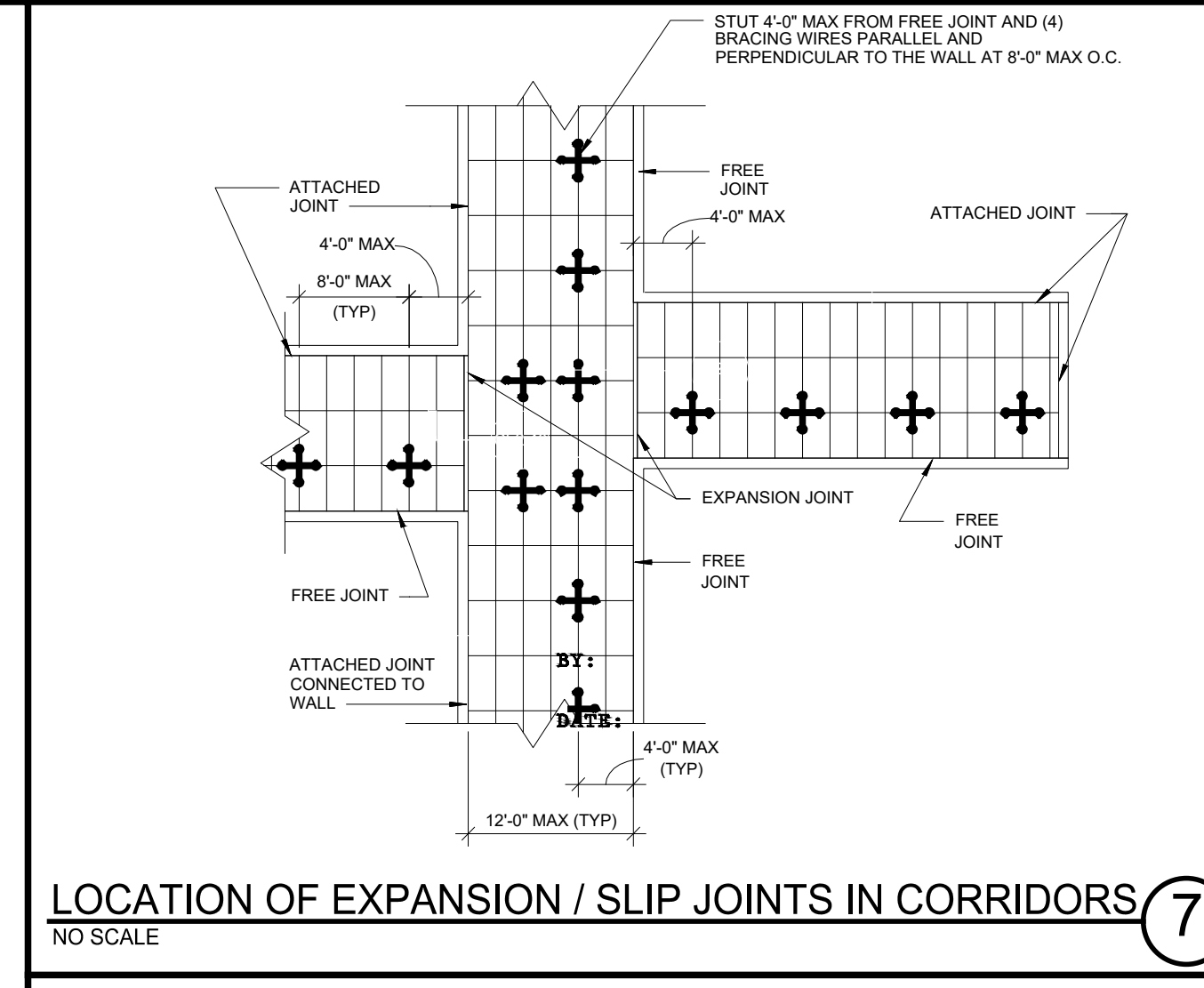
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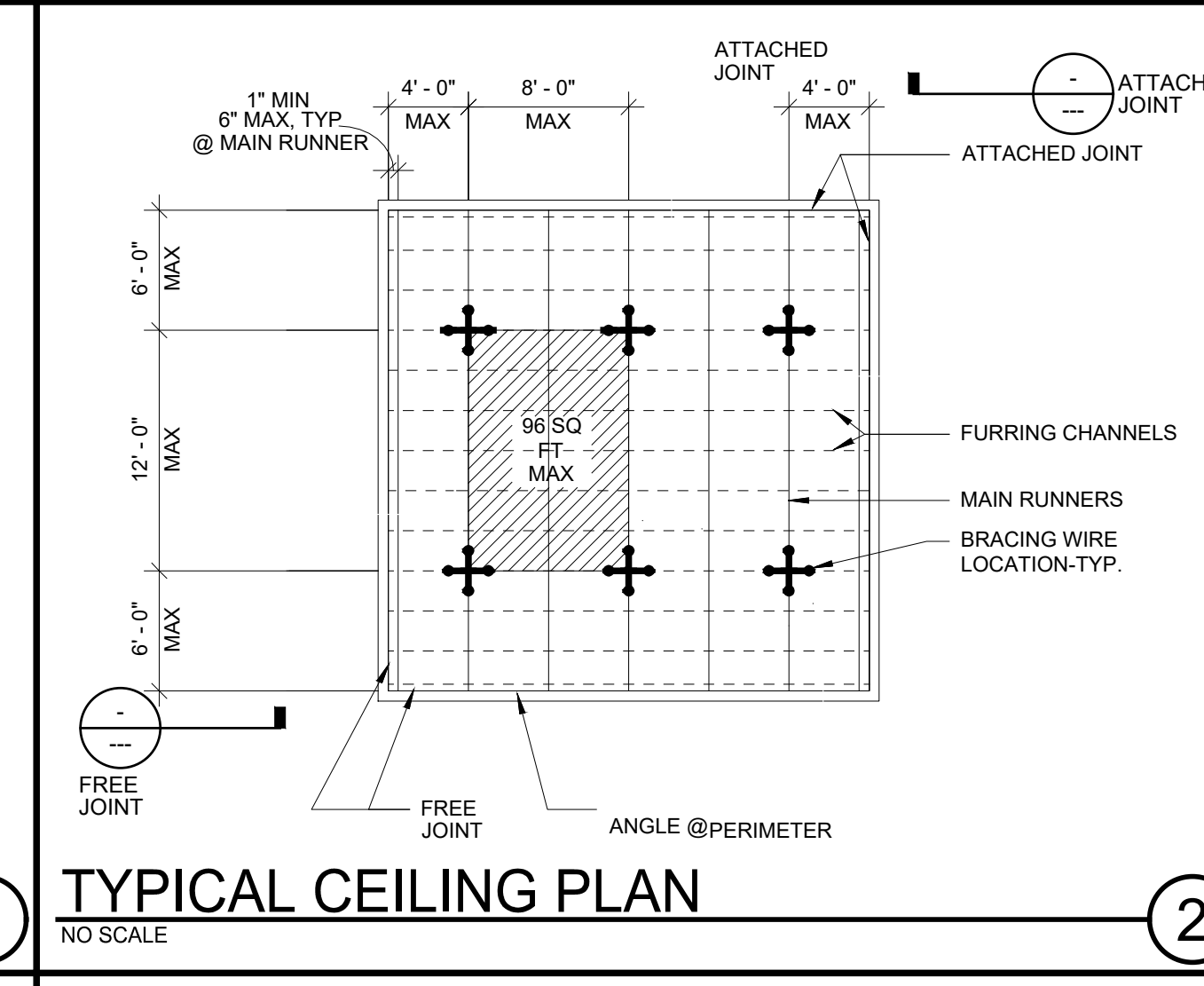
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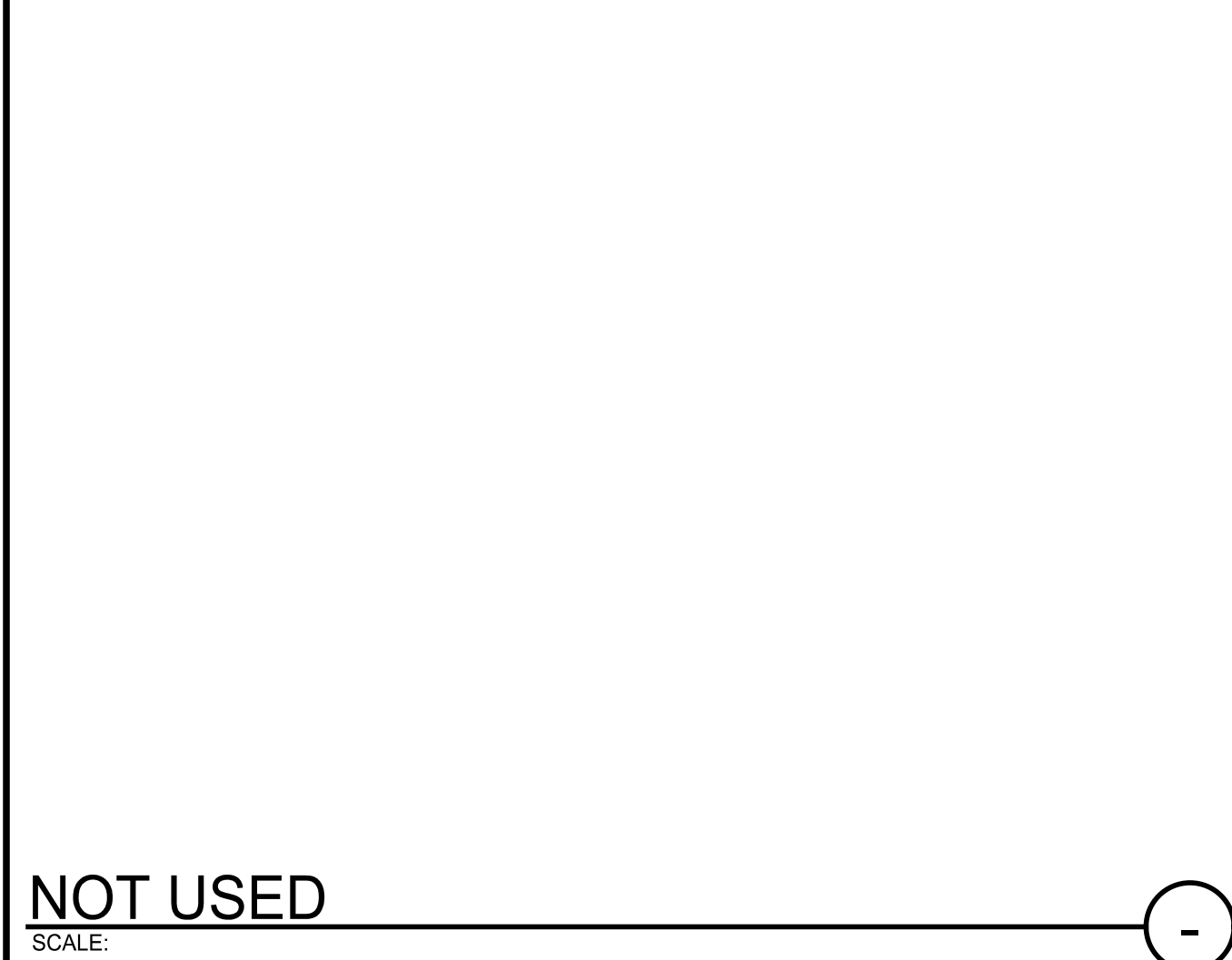
LOCATION OF EXPANSION / SLIP JOINTS IN CORRIDORS
NO SCALE



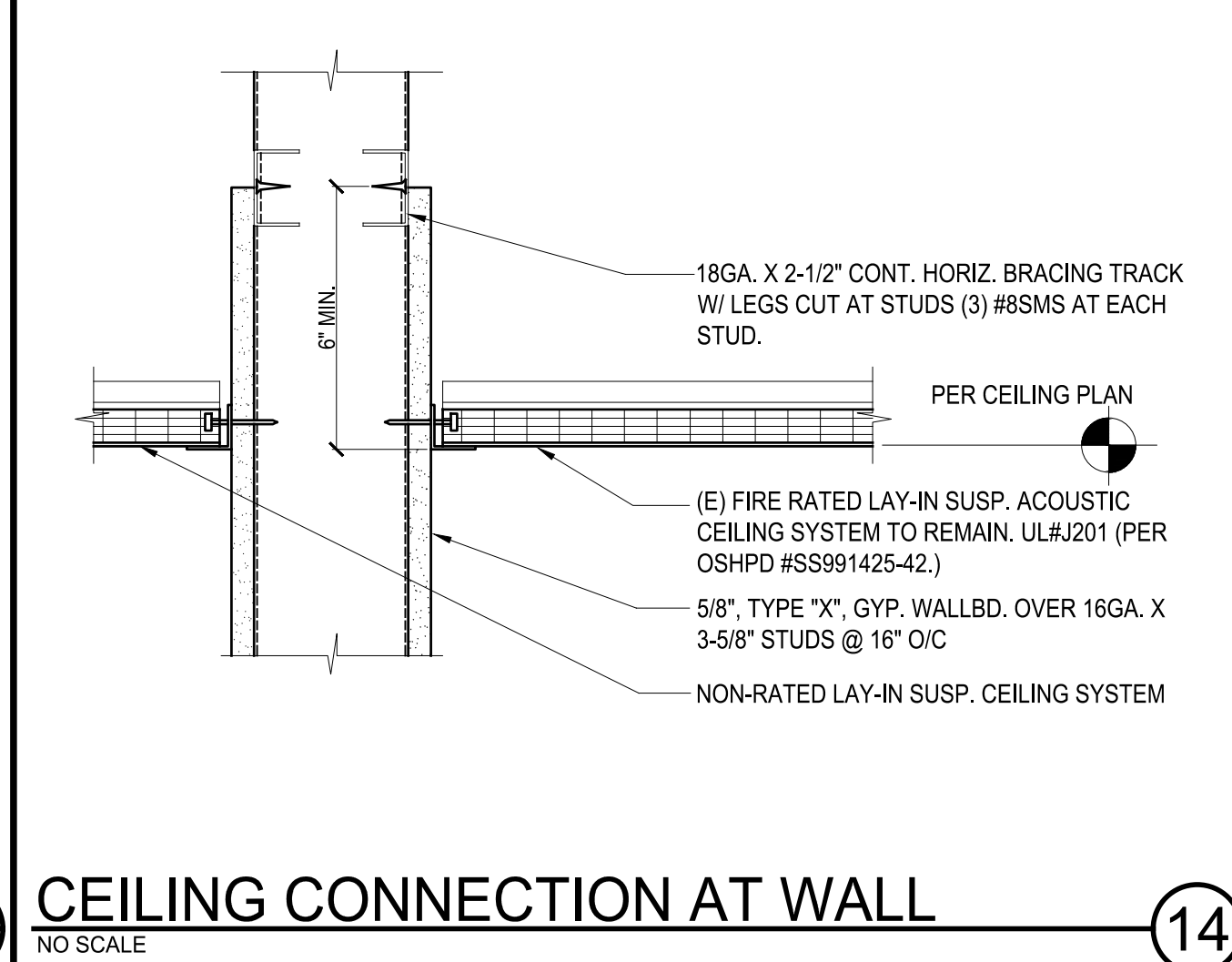
TYPICAL CEILING PLAN
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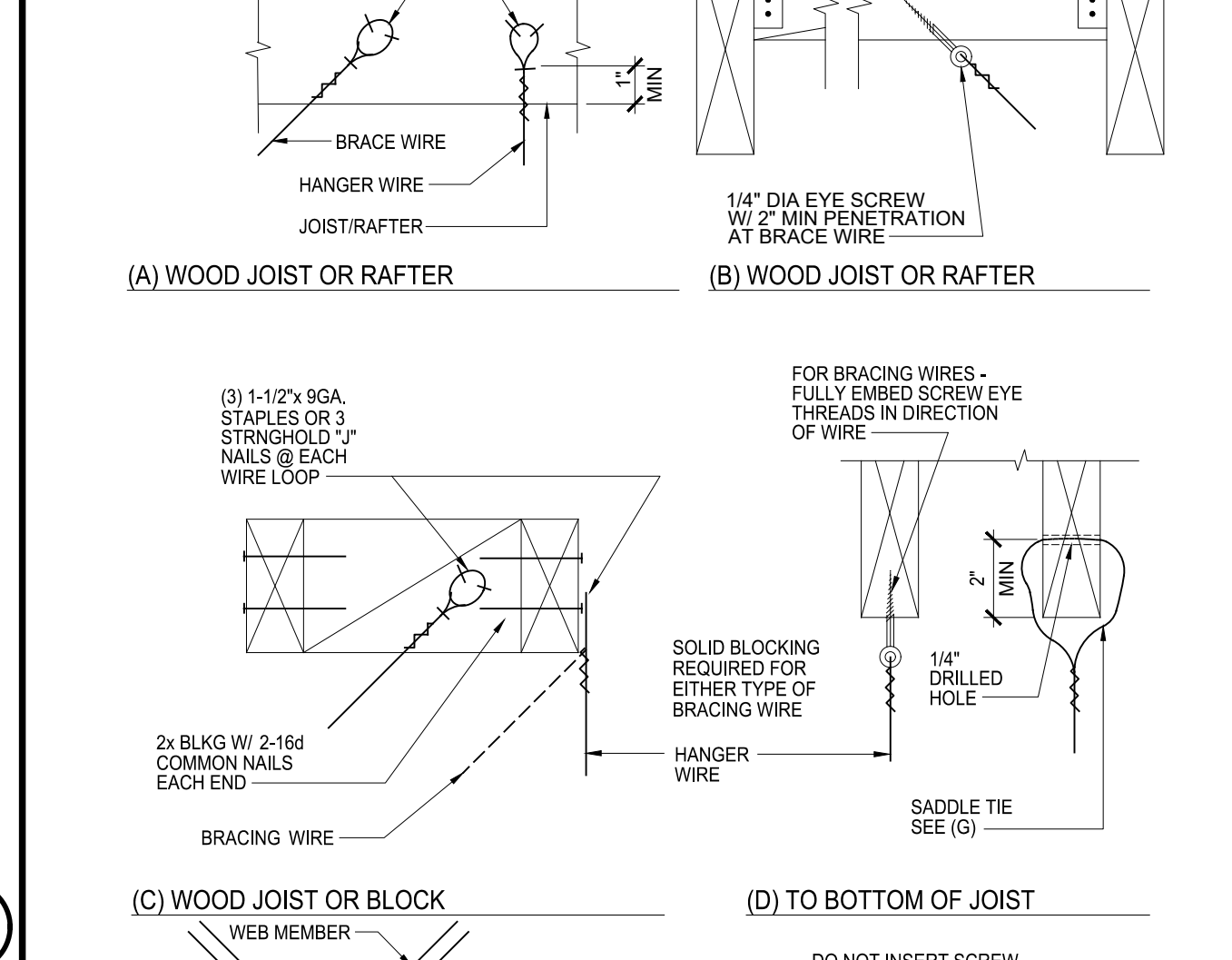
CEILING CONNECTION AT WALL
NO SCALE



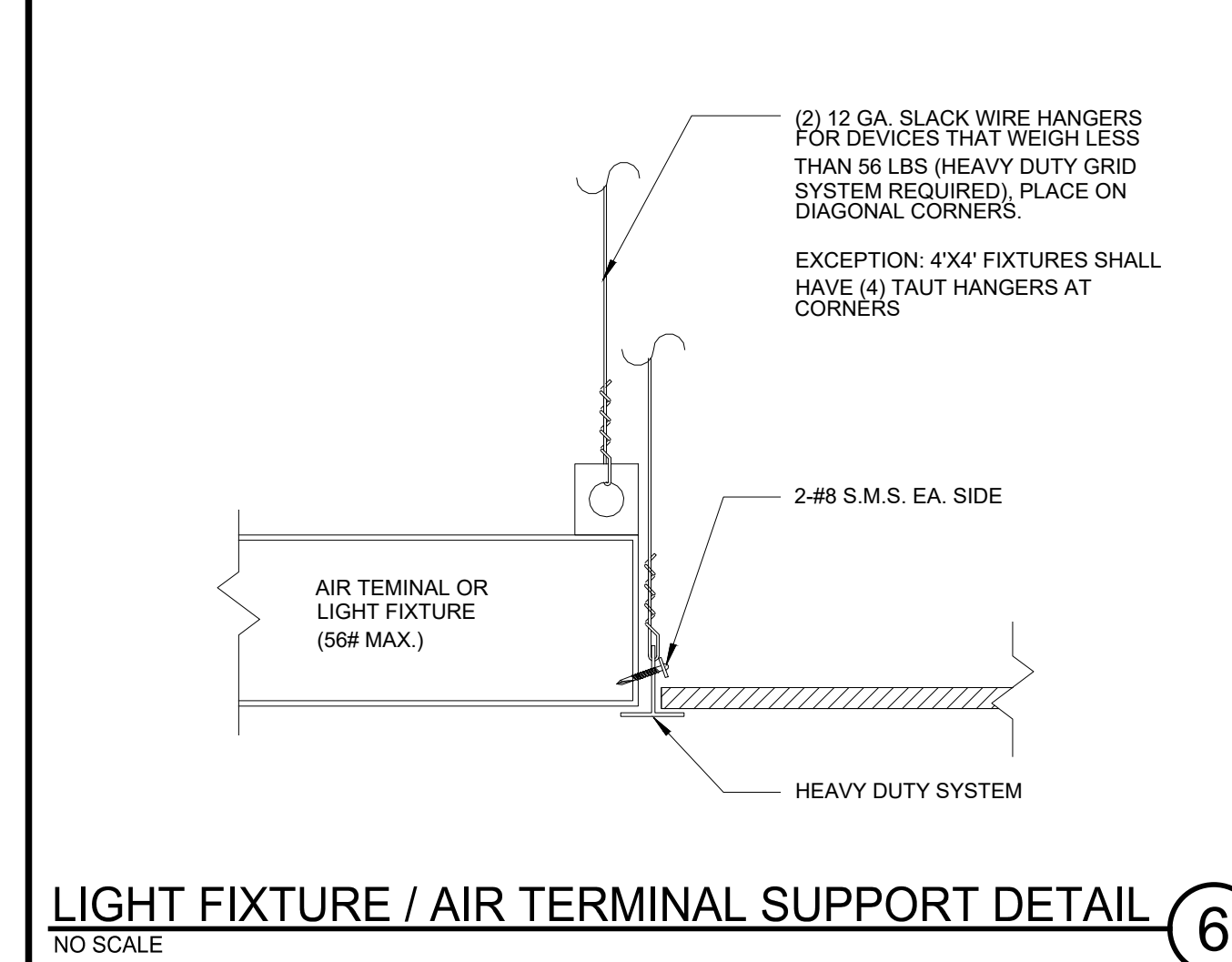
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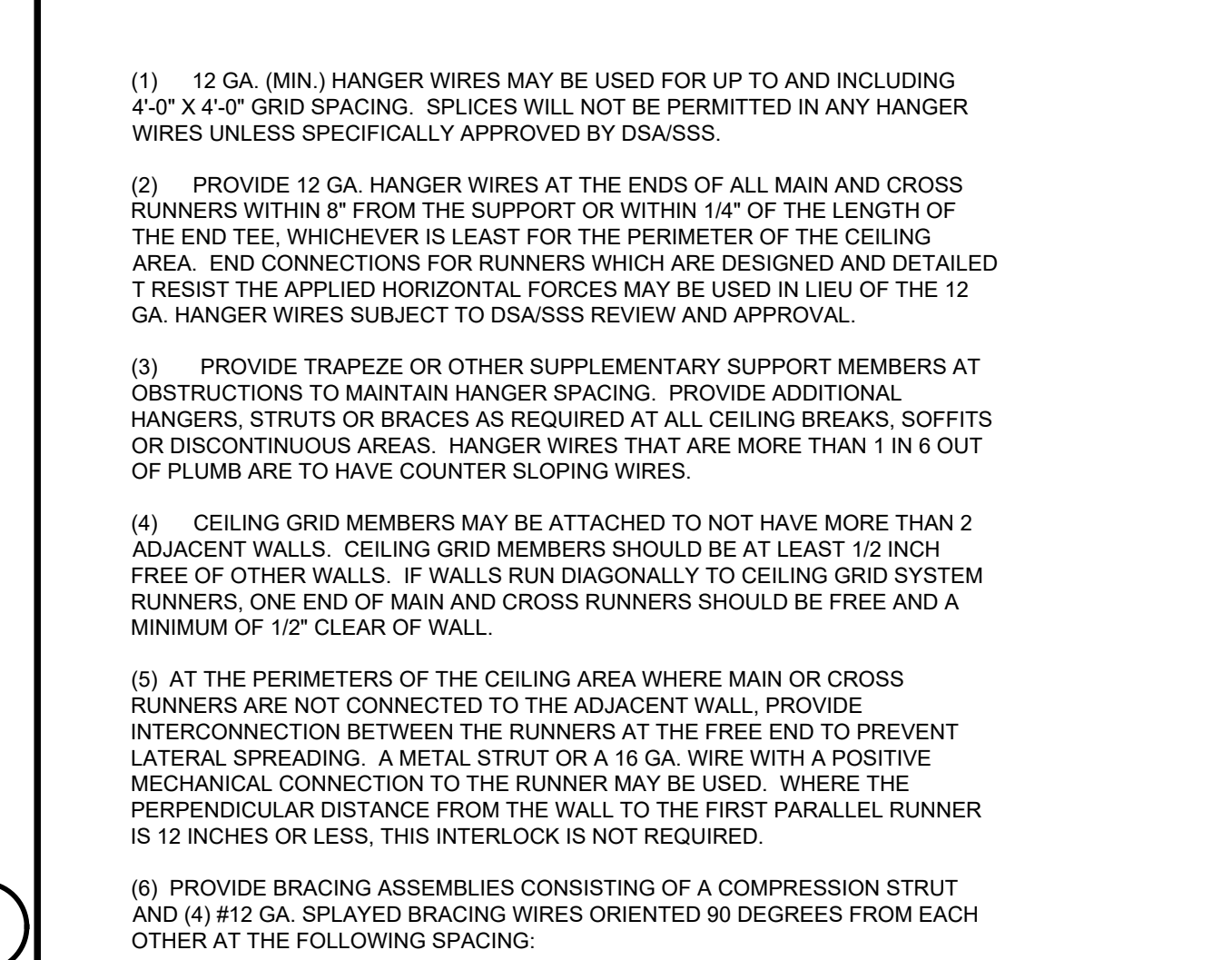
CONNECTIONS TO WOOD FRAMING
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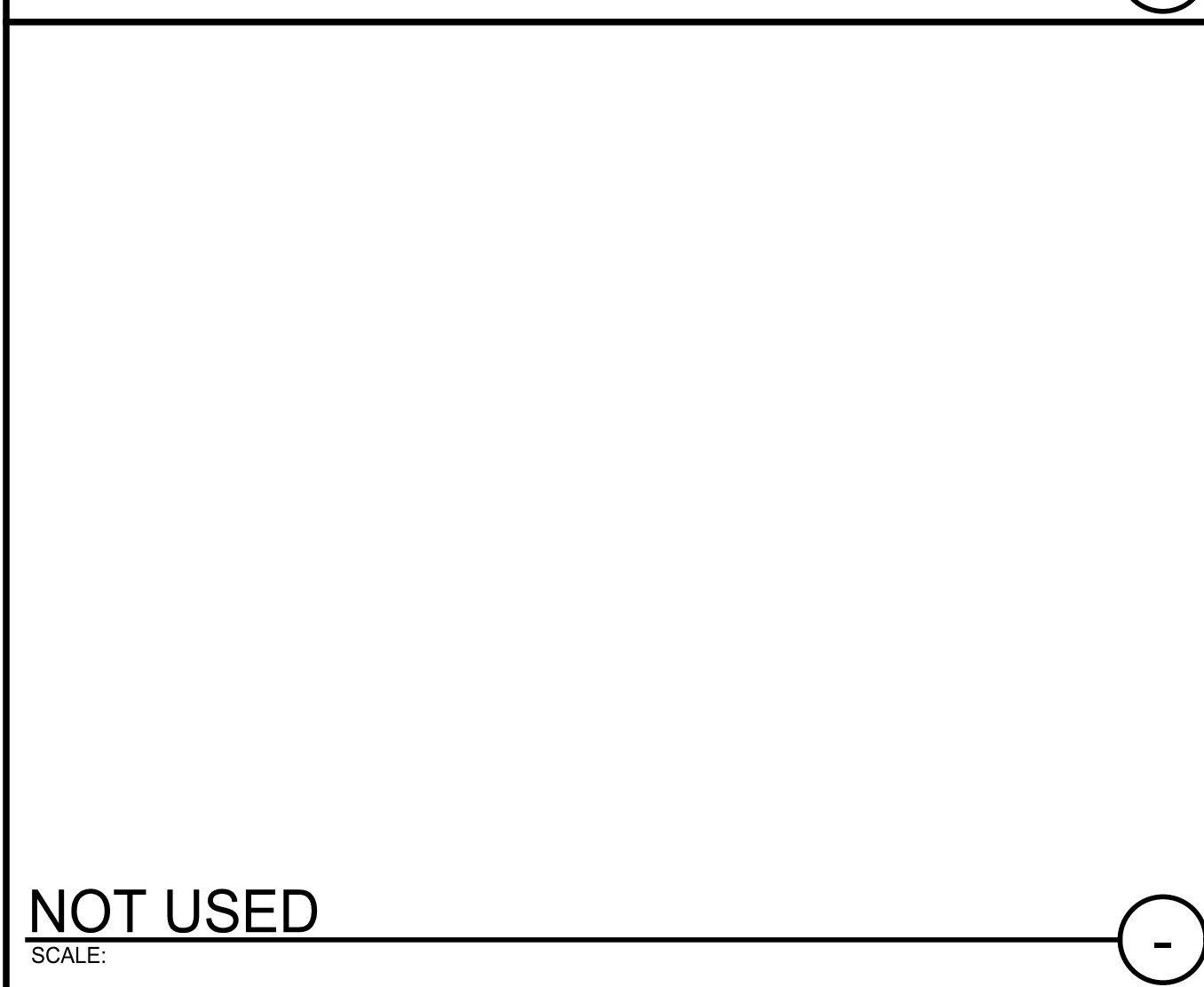
LIGHT FIXTURE / AIR TERMINAL SUPPORT DETAIL
NO SCALE



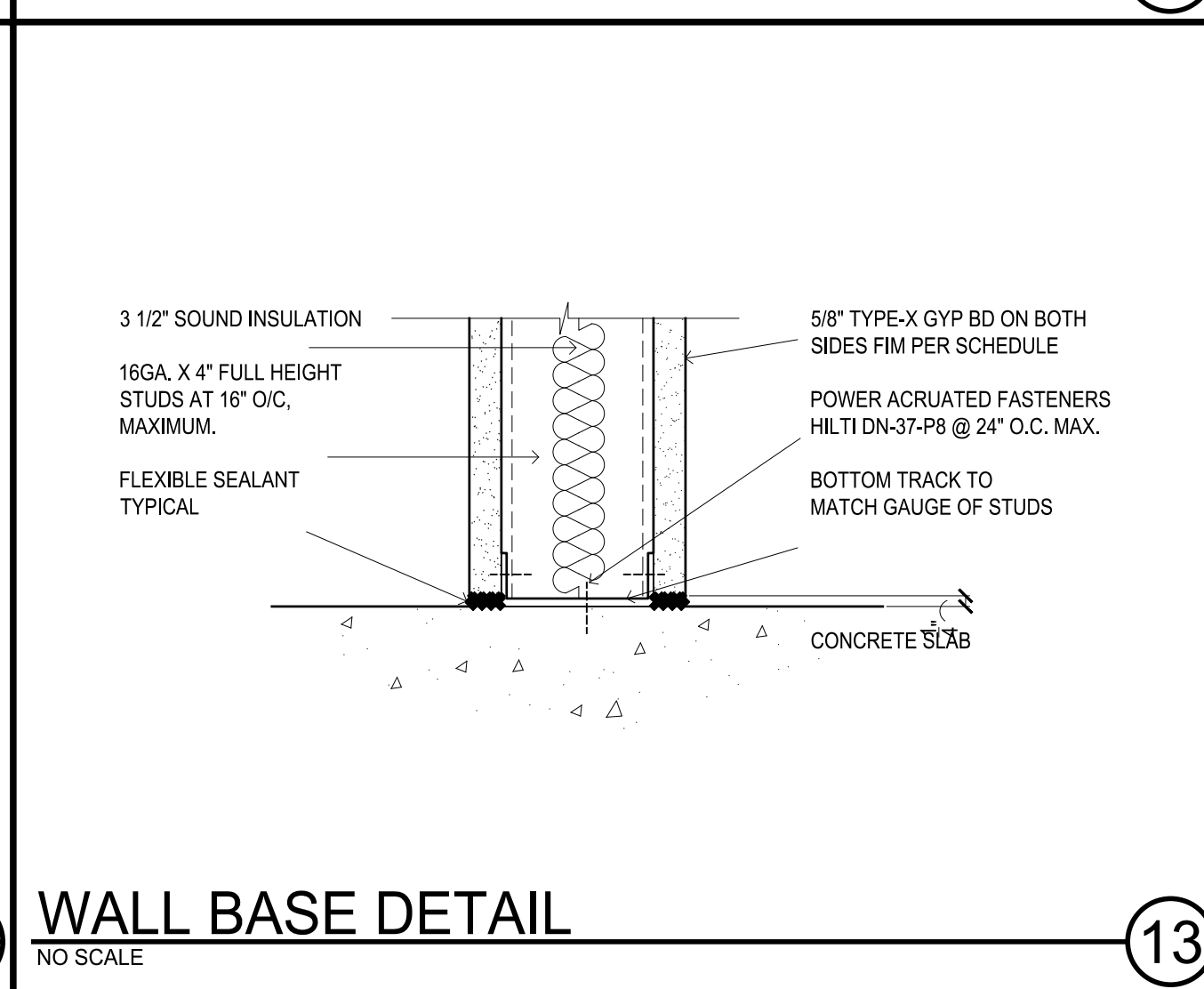
VERTICAL STRUT DETAIL
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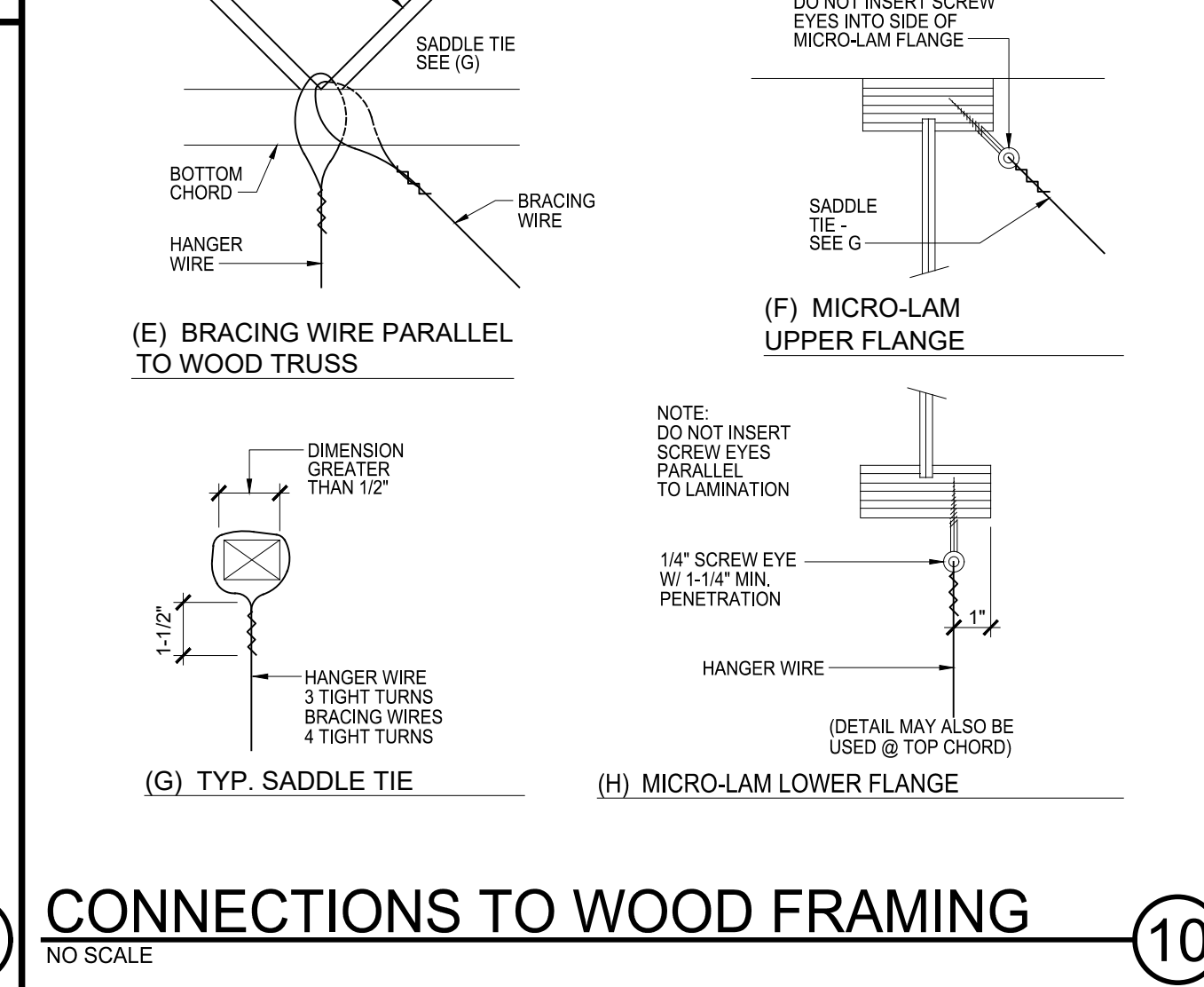
WALL BASE DETAIL
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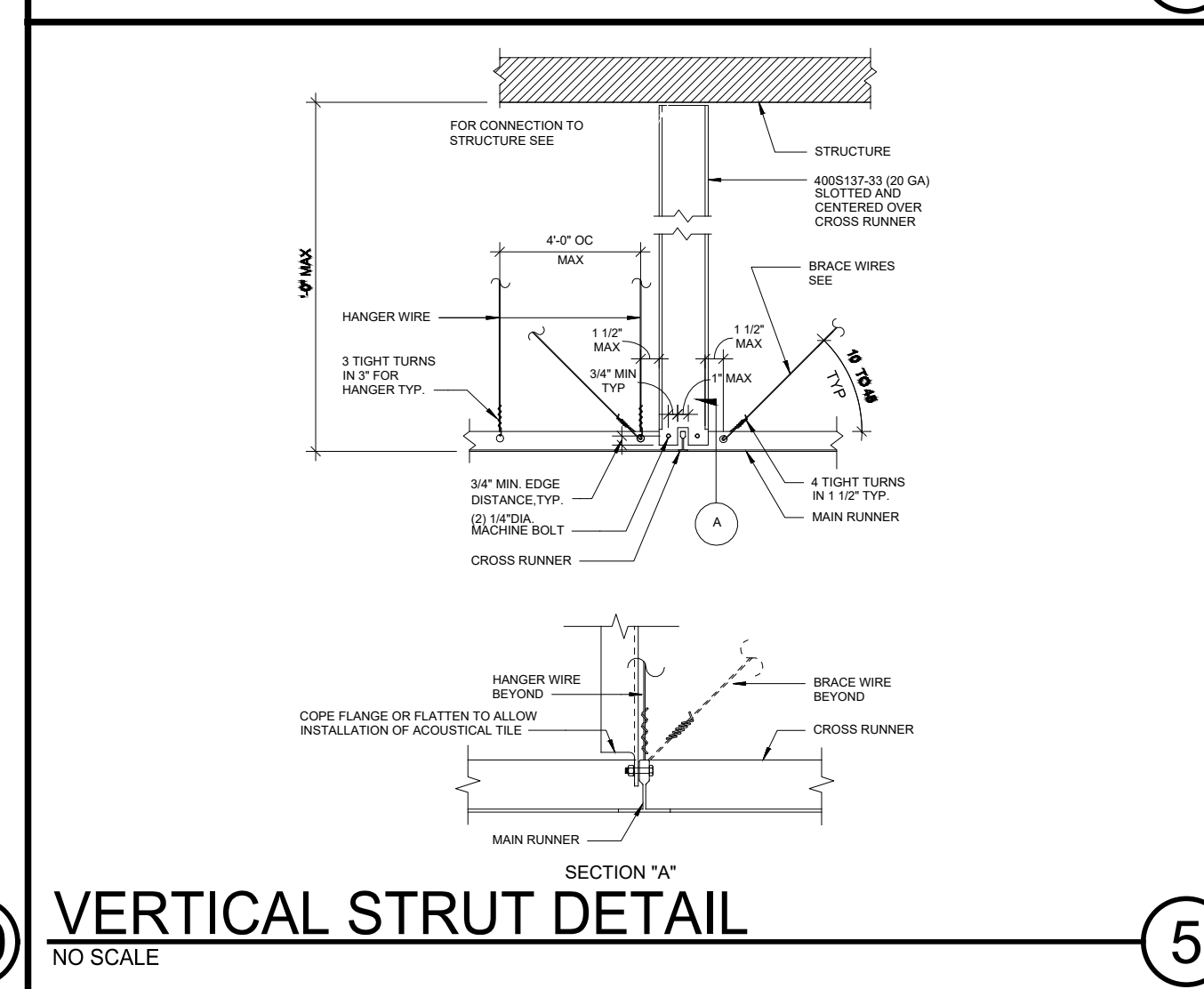
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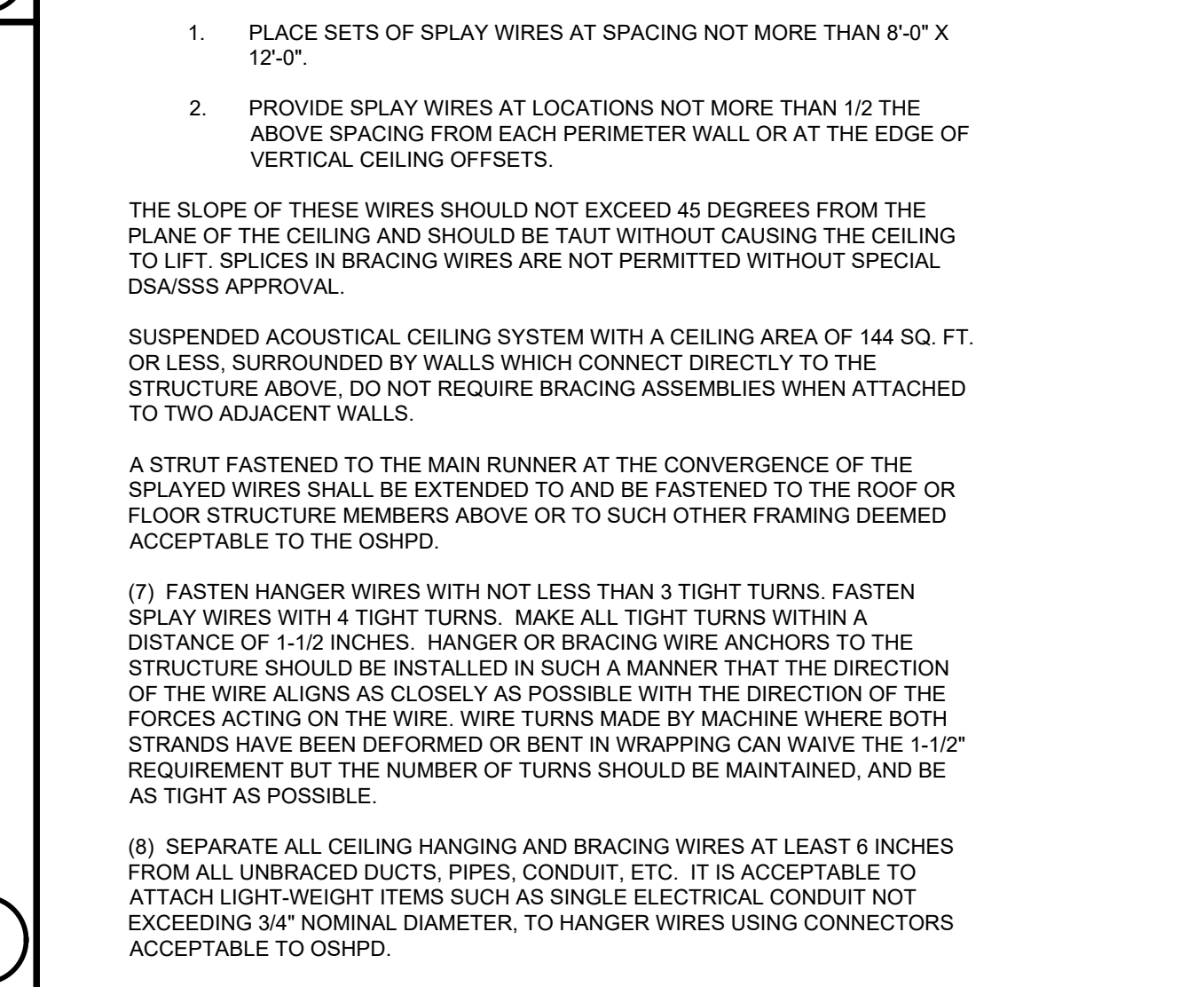
SPLAY BRACING DETAIL
NO SCALE



HANGER ATTACHMENT TO CONCRETE
NO SCALE



SUSPENDIBLE CEILING NOTES
NO SCALE



SPLAY BRACING DETAIL
NO SCALE

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AGENCY APPROVAL: CITY OF SANTA BARBARA
PLANNING # PLN2023-00327
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SHEET TITLE:
DETAILS

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET ___ of ___

A8.1

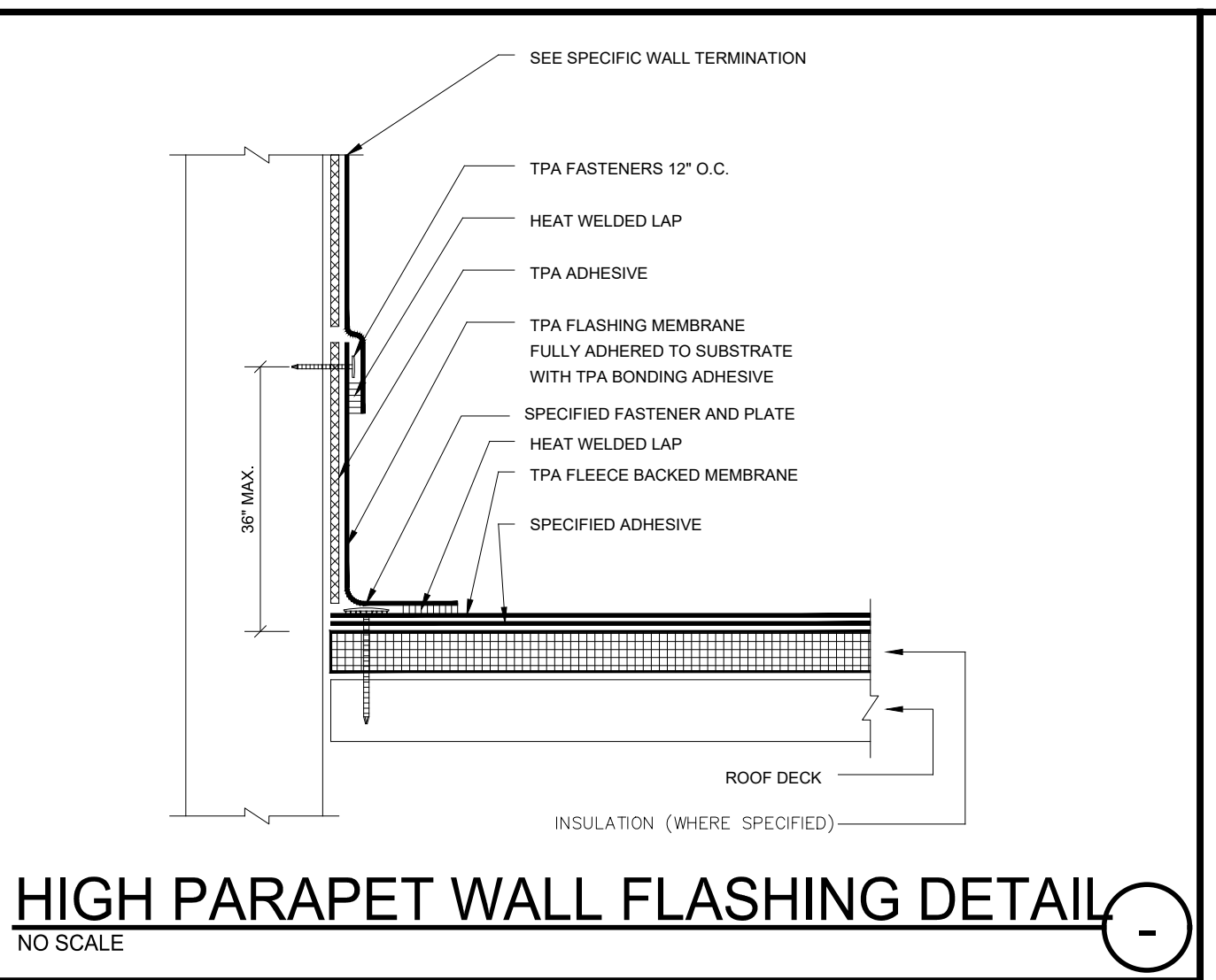
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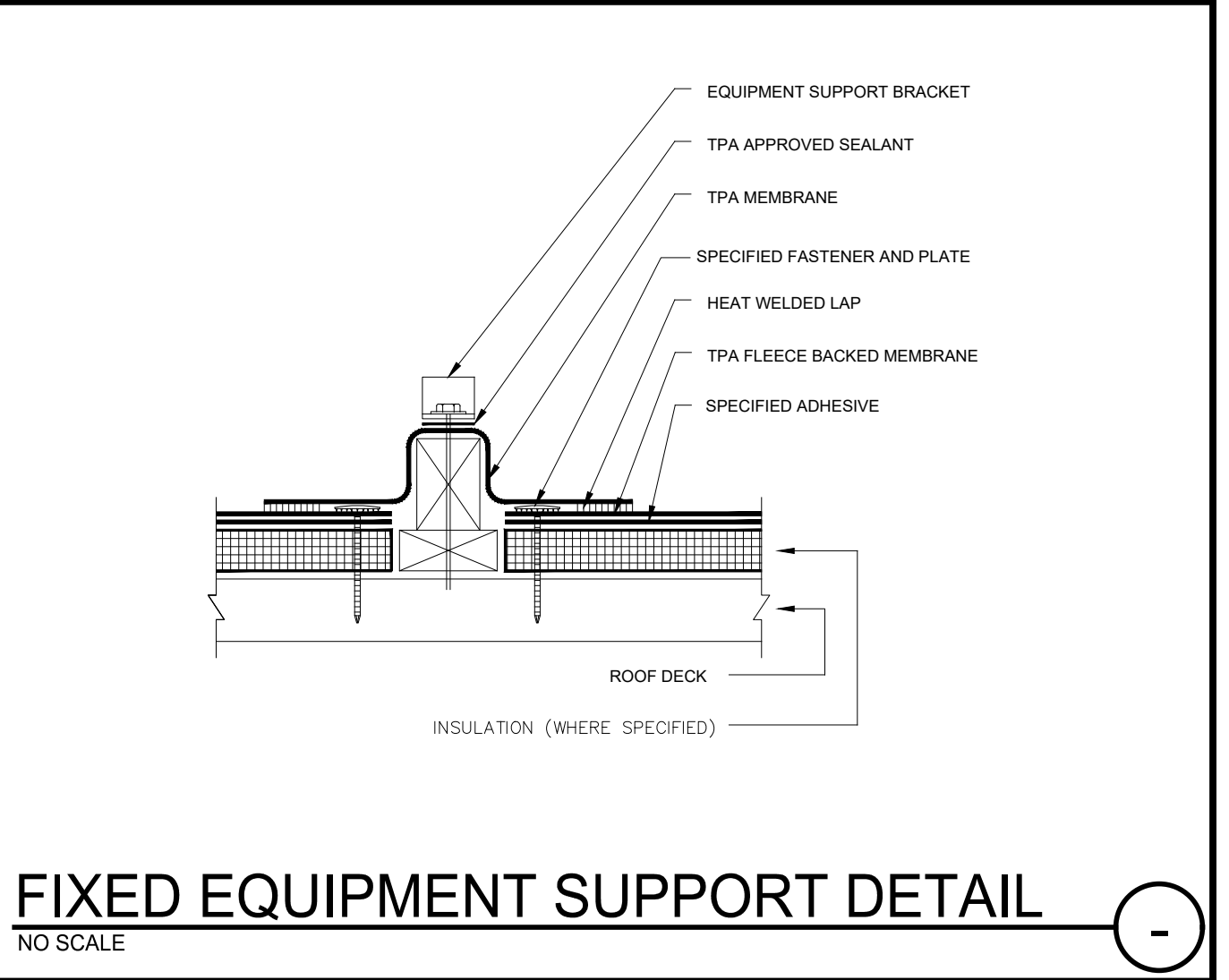
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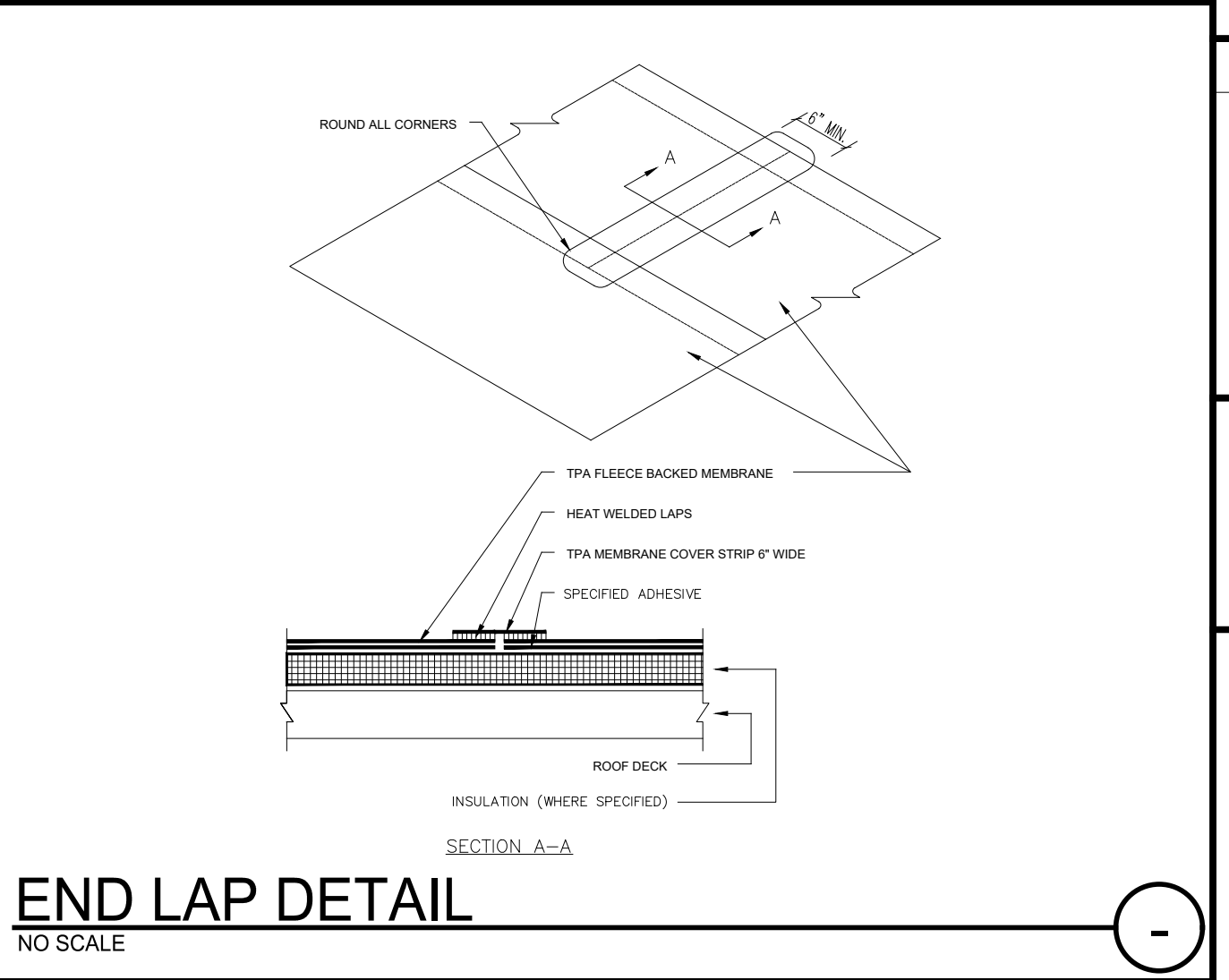
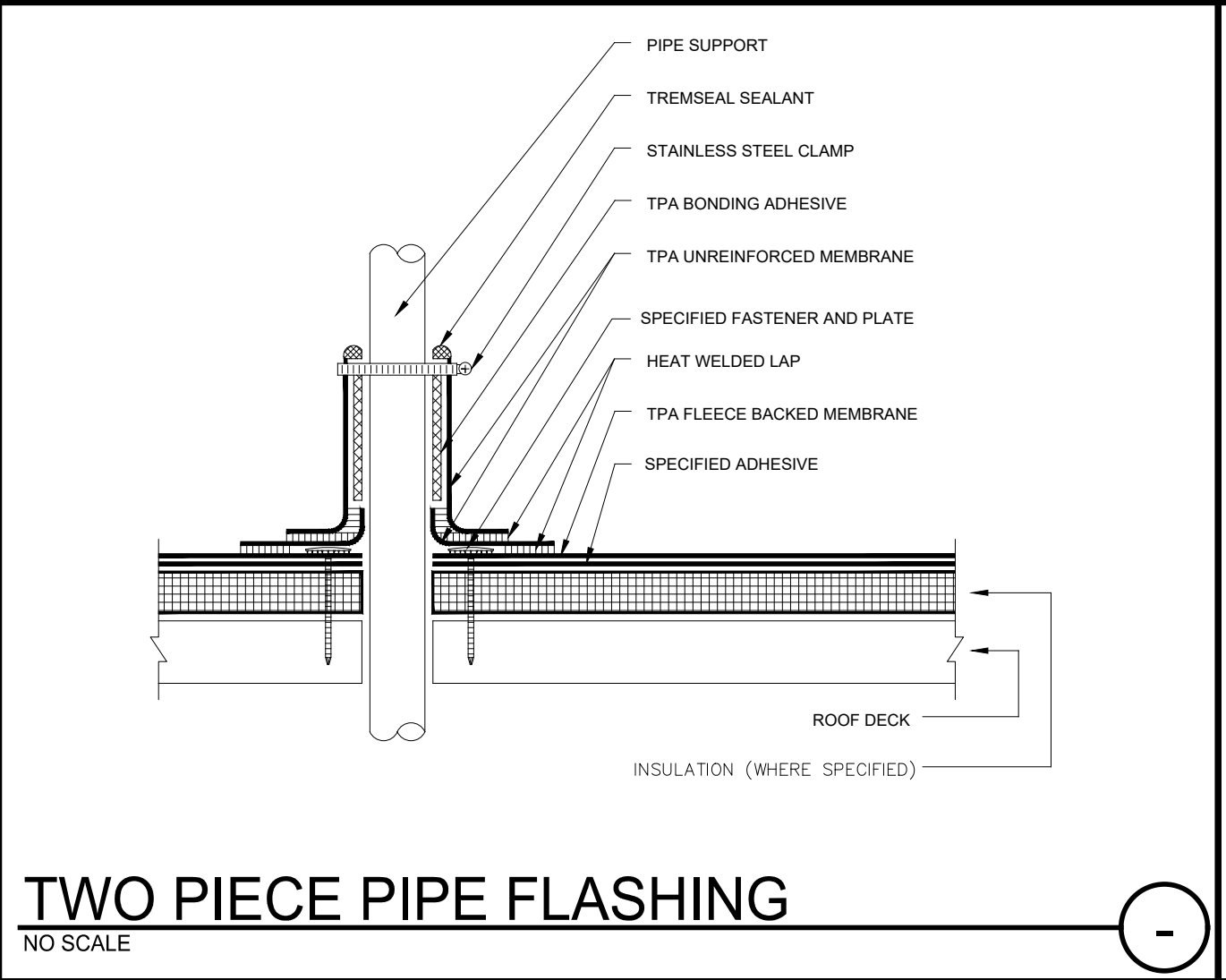
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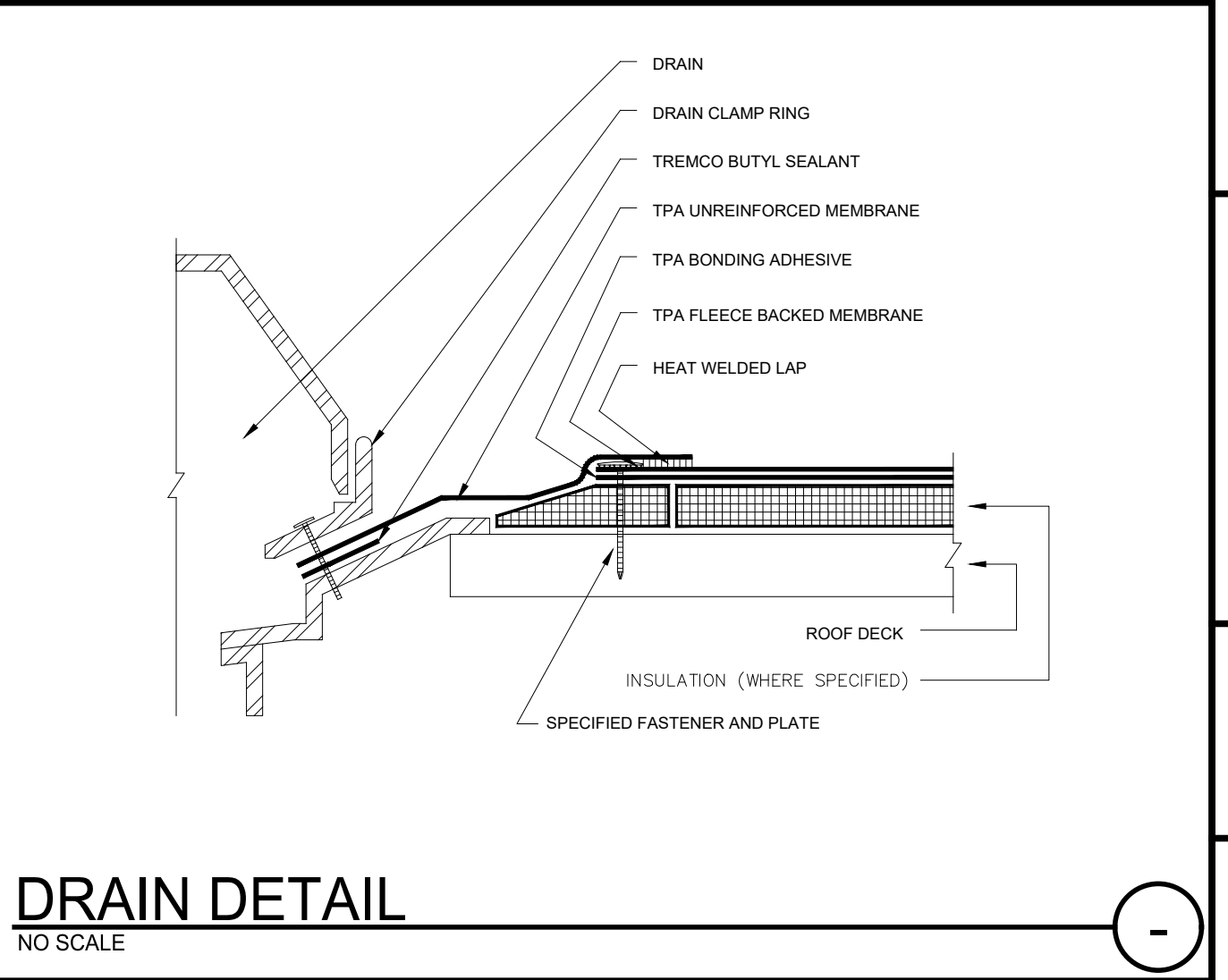
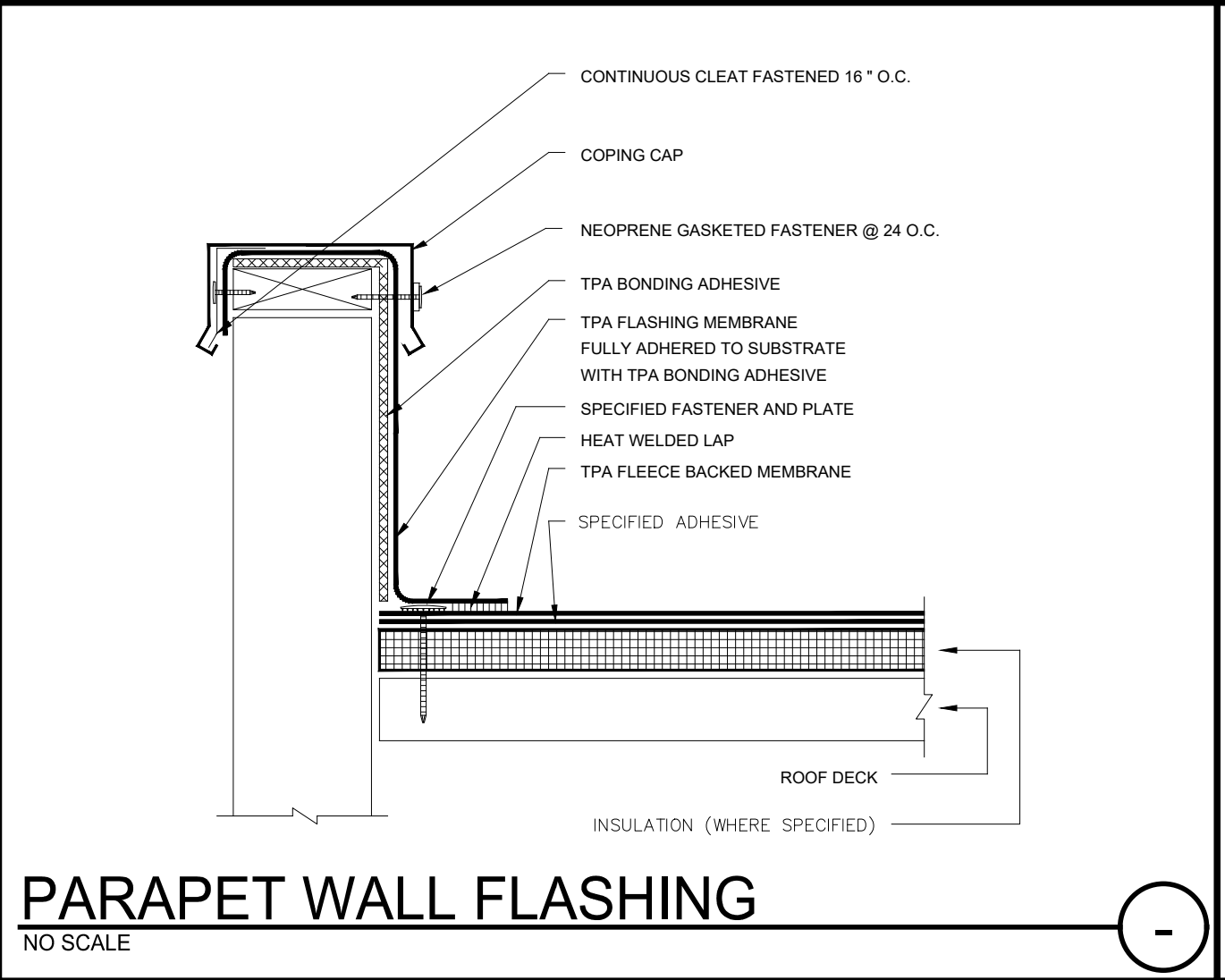
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REVISIONS:

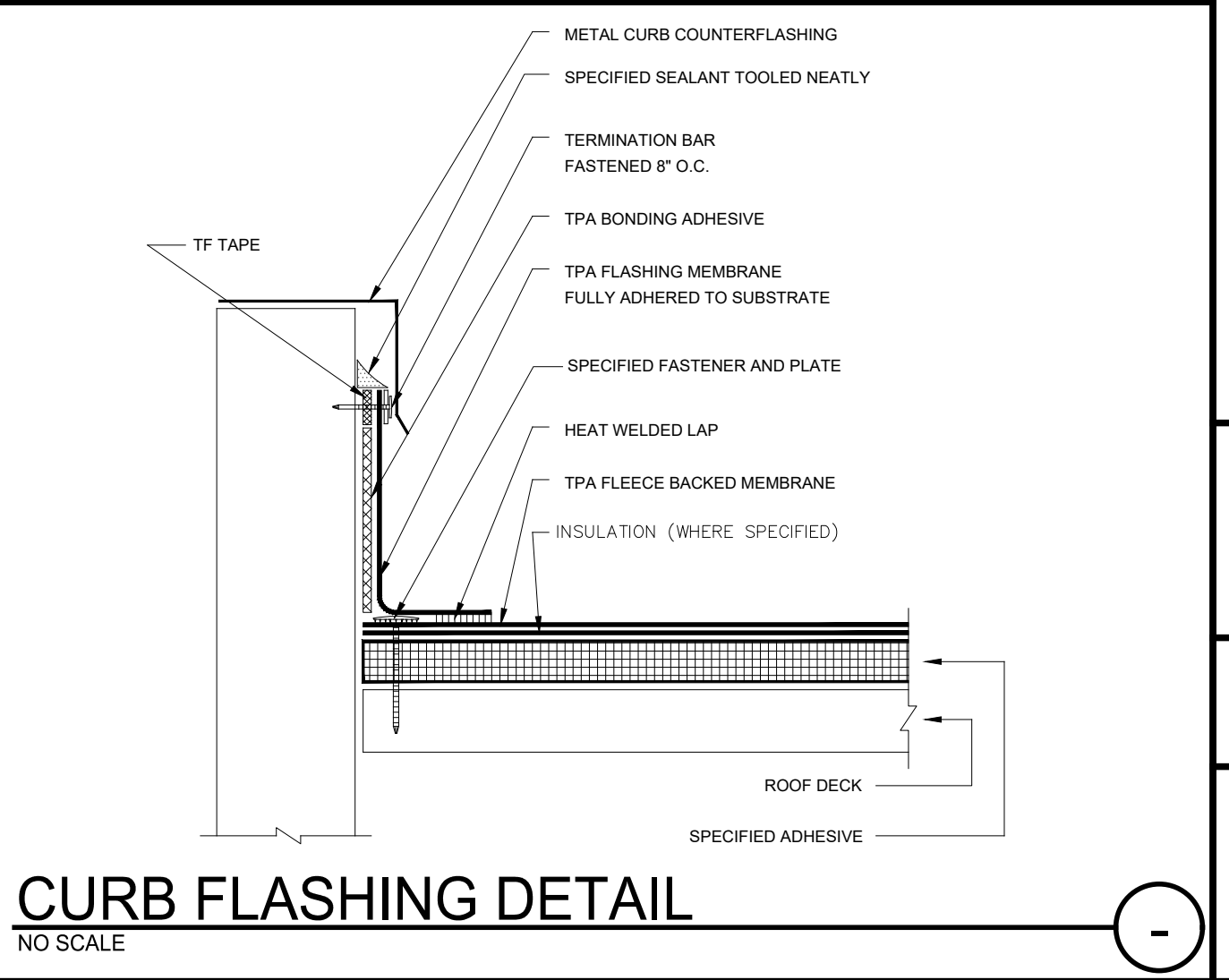
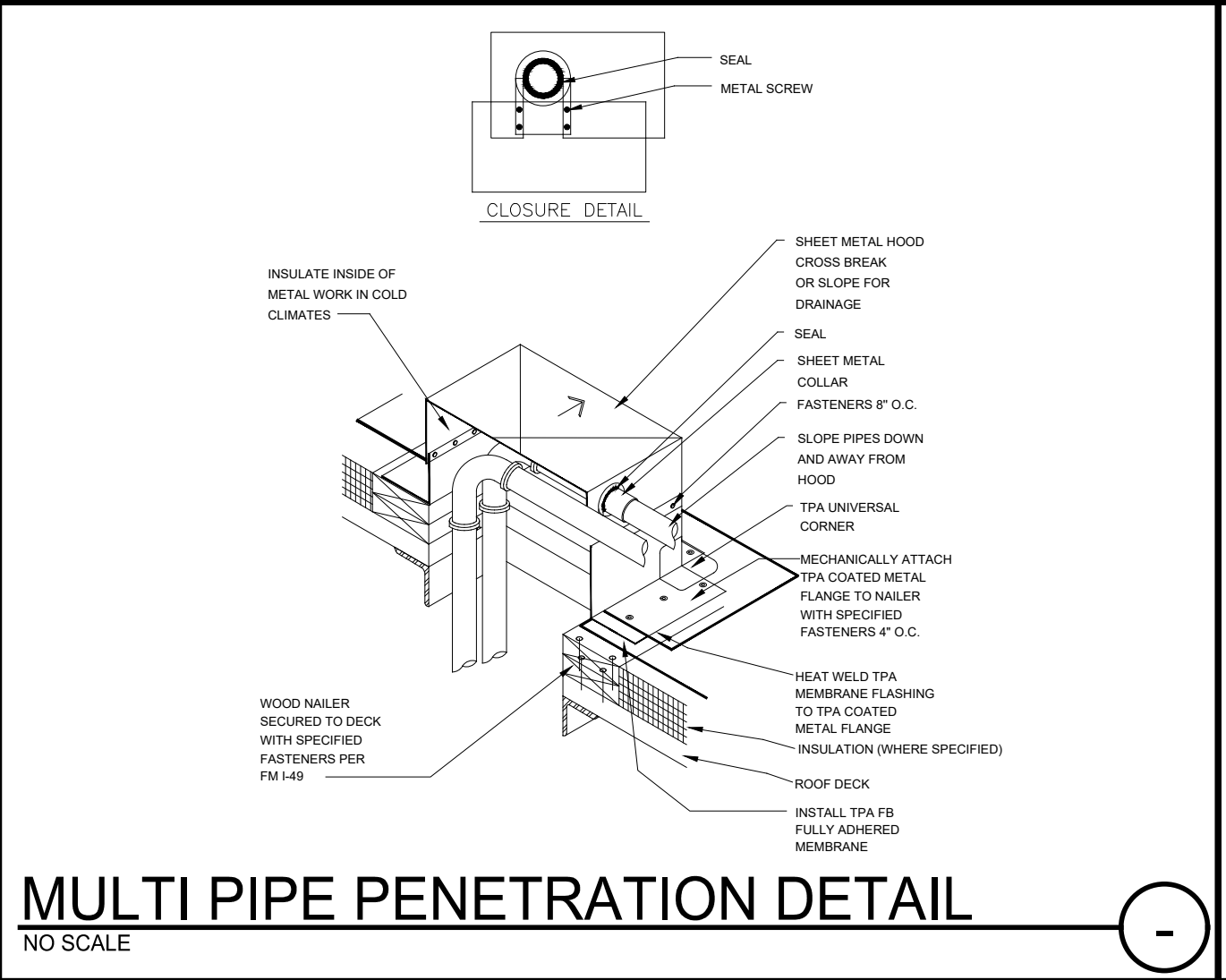
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SCALE:

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SCALE:



SHEET TITLE:
DETAILS

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET **A8.2** of **...**

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PLOT BY: Kevin

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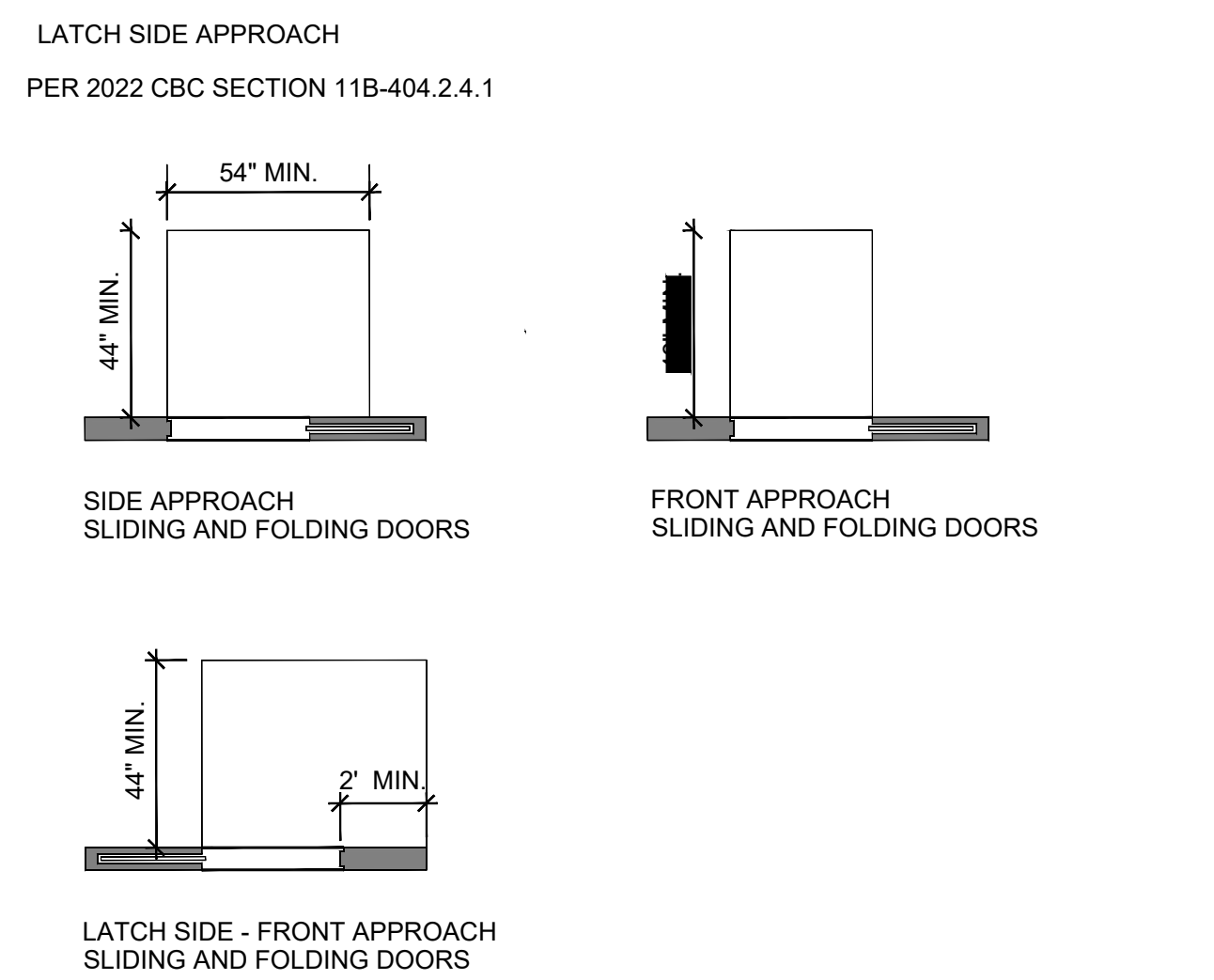
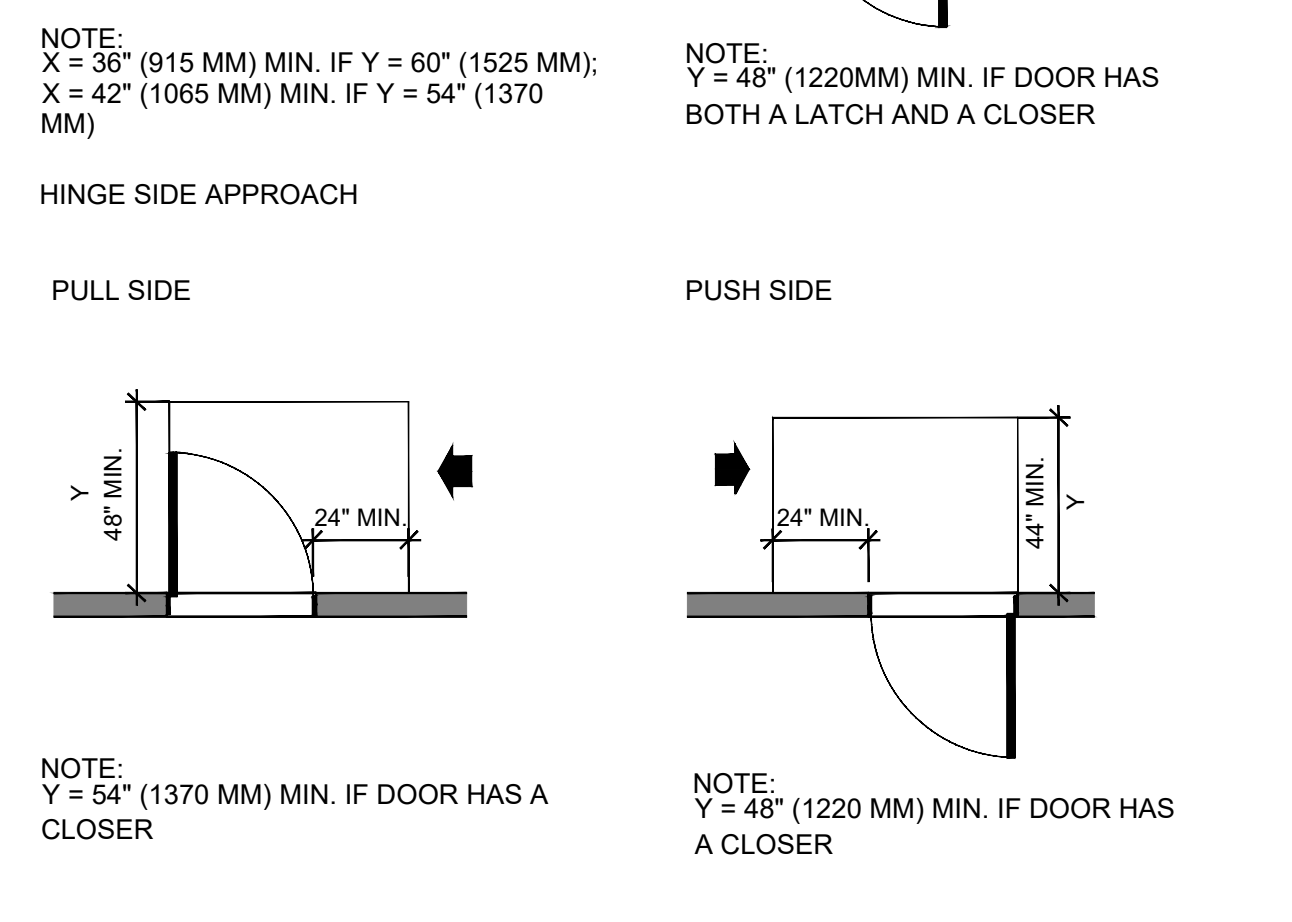
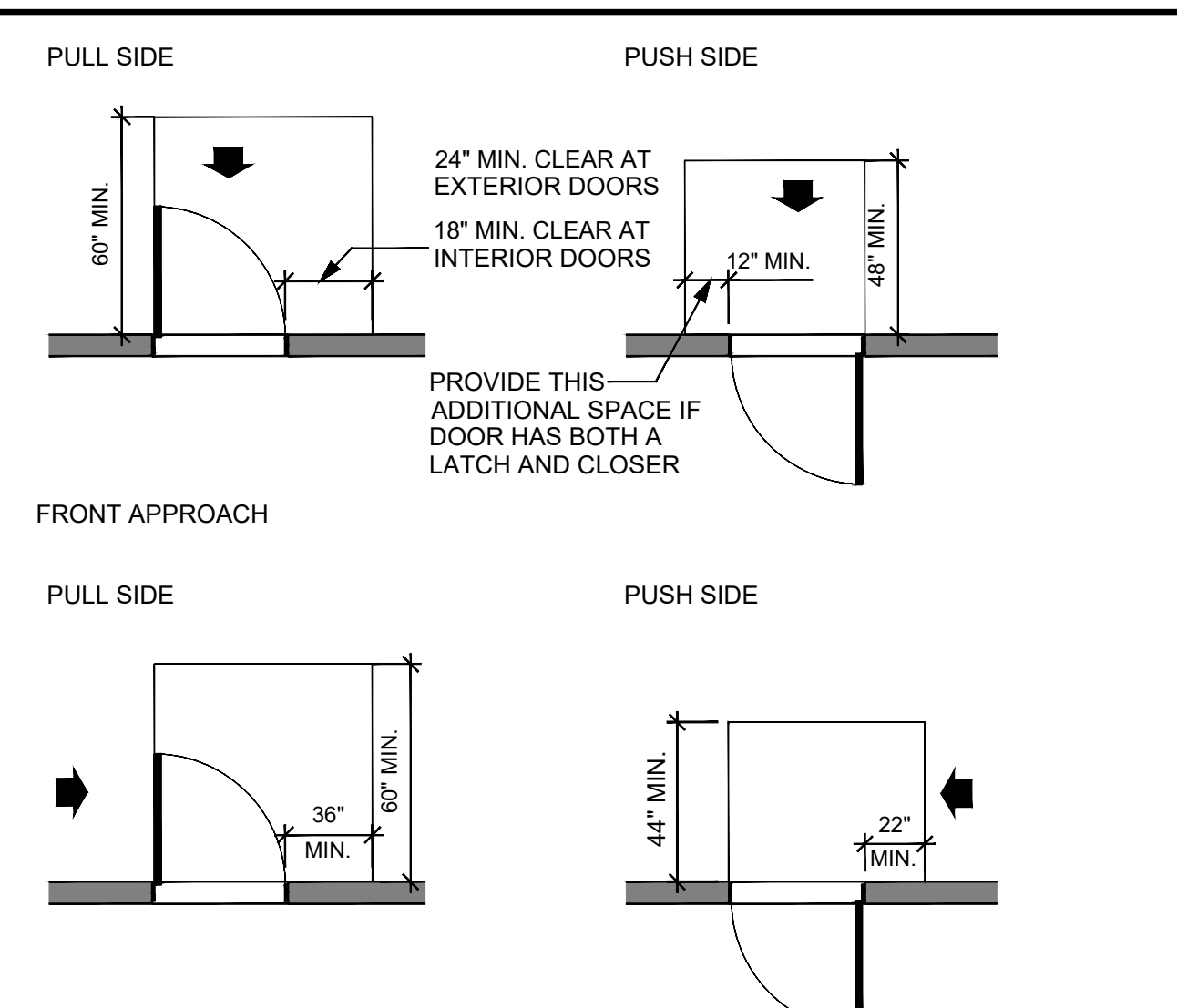
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SCALE: _____



32" MIN CLEAR OPENING

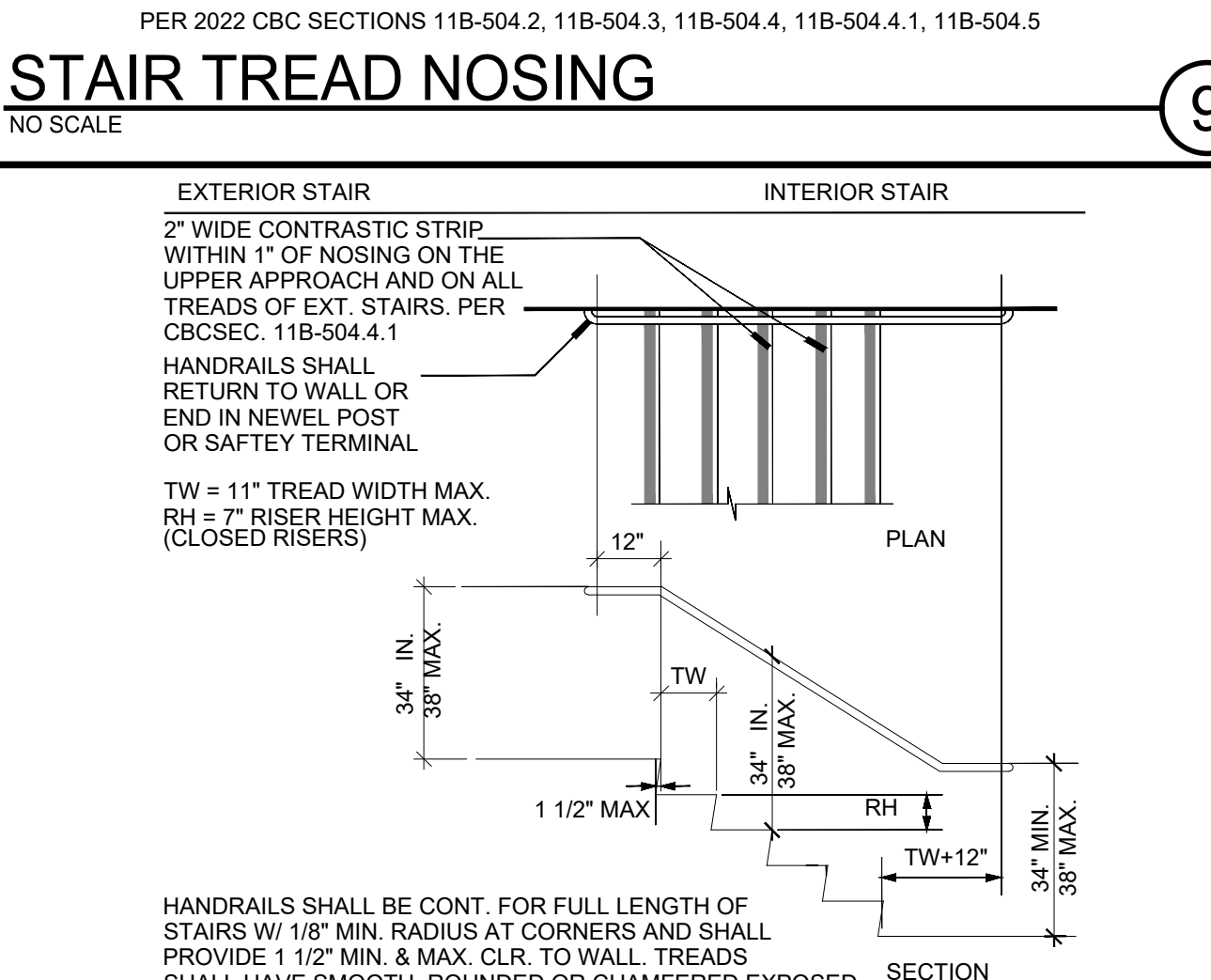
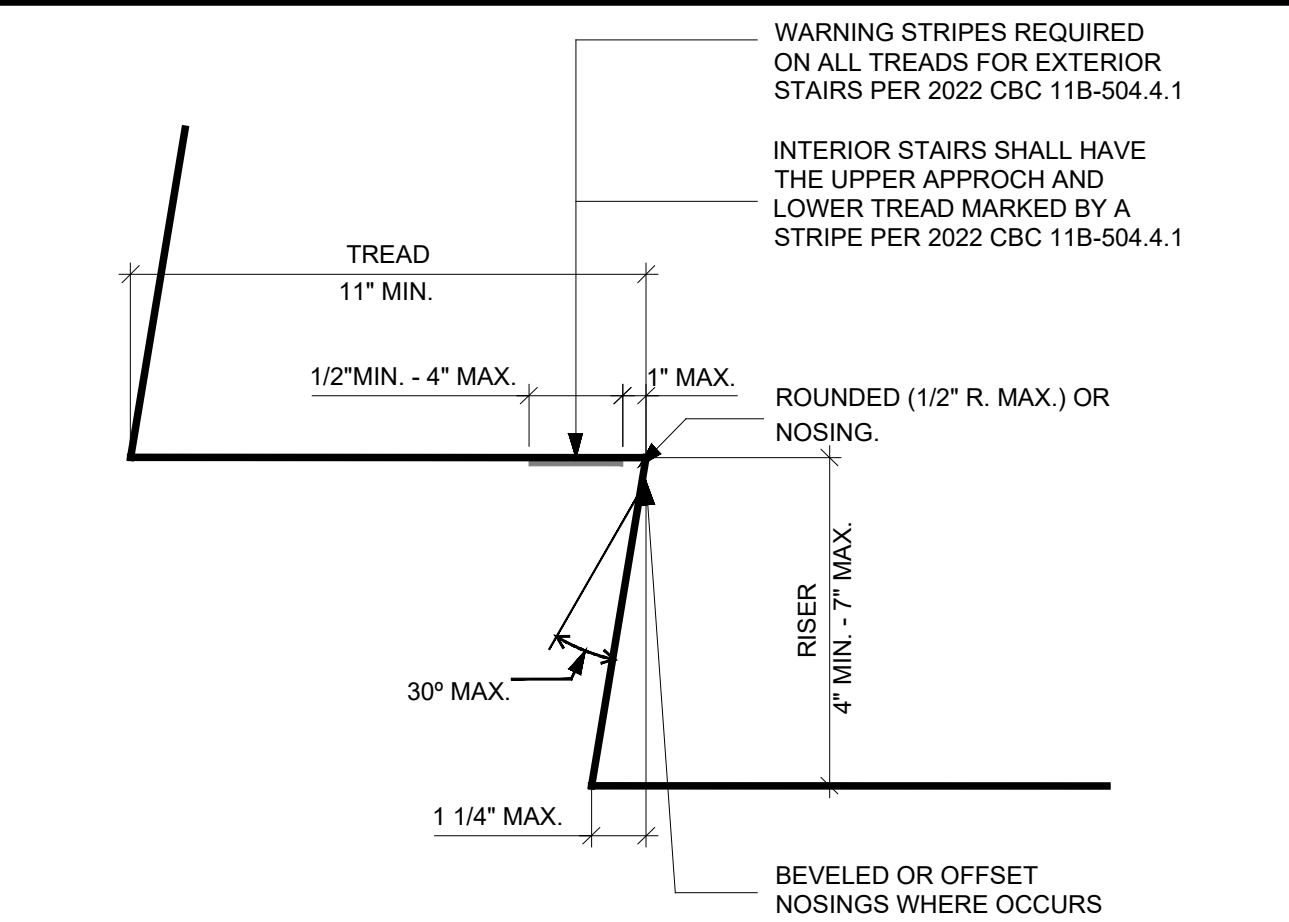
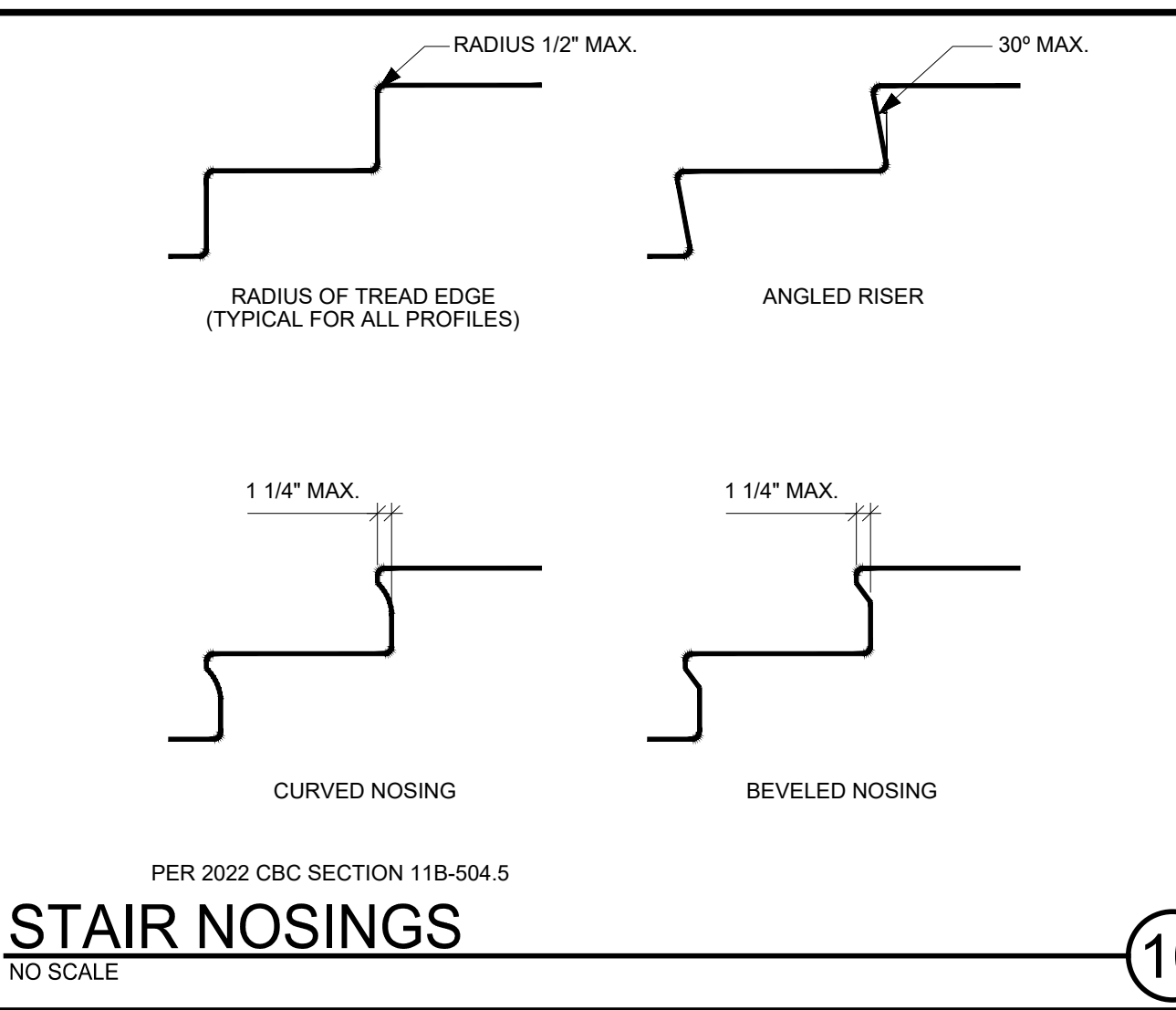
OPERATING HARDWARE

Shape of handle must be operable with one hand and not require tight grasping, tight pinching or twisting of the wrist, per CBC 11B-404.2.7
The force required to activate the door is 5 pounds maximum per CBC 11B-404.2.7
The operable parts of door hardware to be centered between 34 inches MIN and 44 inches MAX per CBC 11B-404.2.7
Where sliding door is in full open position, operating hardware is to be exposed and operable from both sides, per CBC 11B-404.2.7
PER 2022 CBC SECTION 11B-404.2

PER 2022 CBC 11B-404

- DOOR MUST PROVIDE MIN 32" CLR OPENING WIDTH MEASURED WITH THE DOOR POSITIONED 90 DEGREES FROM THE CLOSED POSITION. DOOR MUST BE MIN 36" IN WIDTH (11B-404.2.3)
- HINGED DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES (11B-404.2.3)
- DOORS SHALL NOT BE LESS THAN 6'-8" IN HEIGHT.
- AT LEAST ONE LEAF AT A DOUBLE DOOR MUST PROVIDE A NET CLR OPENING OF 32" MIN WITH THE LEAF POSITIONED 90 DEGREES FROM IT CLOSED POSITION (11B-404.2.2)
- FLOOR OR GROUND SURFACE WITHIN REQUIRED MANEUVERING CLEARANCES SHALL COMPLY WITH SECTION 11B-302. CHANGES IN LEVEL ARE NOT PERMITTED (11B-404.2.4)
- MANEUVERING CLEARANCES AT DOORS SHALL BE AS SHOWN (11B-404.2.4)
- WHERE A DOOR REQUIRED TO BE ACCESSIBLE IS LOCATED IN AN ALCOVE GREATER THAN 8', STRIKE SIDE CLEARANCES SHALL BE PROVIDED WITHIN THE ALCOVE (11B-404.2.4.3)
- MAXIMUM EFFORT TO OPERATED DOORS SHALL NOT EXCEED 5 POUNDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT MAY NOT EXCEED 15 POUNDS (11B-404.2.9)
- DOOR CLOSERS AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM. (11B-404.2.8.1)
- HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL COMPLY WITH SECTION 11B-309.4. OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34 INCHES (864 MM) MINIMUM AND 44 INCHES (1118 MM) MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES (11B-404.2.7)
- SWINGING DOOR AND GATE SURFACES WITHIN 10 INCHES (254 MM) OF THE FINISH FLOOR OR GROUND MEASURED VERTICALLY SHALL HAVE A SMOOTH SURFACE ON THE PUSH SIDE EXTENDING THE FULL WIDTH OF THE DOOR OR GATE (11B-404.2.10)
- ALL EXITS ARE TO BE OPENABLE FROM INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE. (1010.1.9)

MANEUVERING CLEARANCE DOORS
NO SCALE



HANDRAILS
NO SCALE

ACCESSIBLE ENTRANCE

ACCESSIBLE ENTRANCE

NOTES:
1. SIGN SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
2. CHARACTERS, SYMBOLS AND BACKGROUND SHALL HAVE A NON-GLARE FINISH.
3. CHARACTERS AND SYMBOLS SHALL BE WHITE ON BLUE AND SHALL HAVE A WIDTH-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND STROKE WIDTH TO HEIGHT RATIO BETWEEN 1:5 AND 1:10.

ACCESSIBLE POINT OF ACCESS SIGN
NO SCALE

SPACES RESERVED FOR HANDICAPPED FACILITIES IN THIS PARKING LOT

UNAUTHORIZED VEHICLES NOT DISPLAYING DISTINGUISHING SPECIAL LICENSE PLATES OR PLACARDS ISSUED TO PHYSICALLY HANDICAPPED PERSON WILL BE TOWED AWAY AT OWNERS EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT P.D. OR BY TELEPHONING CVC SECTION NO. _____

THE SIGN SHALL NOT BE LESS THAN 17" x 22" IN SIZE WITH LETTERING NOT LESS THAN 1-INCH IN HEIGHT, WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING.

NOTE:
A SIGN SHALL BE POSTED IN A CONSPICUOUS PLACE, AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES, OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE

ACCESSIBLE PARKING ENTRANCE SIGN
NO SCALE

ACCESSIBLE PARKING SPACE
SCALE: 1/8"=1'-0"

6"x4'-0" CONCRETE CURB STOP PER CITY OF OXNARD PARKING GUIDELINES

70 SQ INCH ACCESSIBLE PARKING SIGN

18'-0"x17'-0" AREA MUST BE LEVEL

ACCESSIBLE ISLE - SEE DETAIL 3--

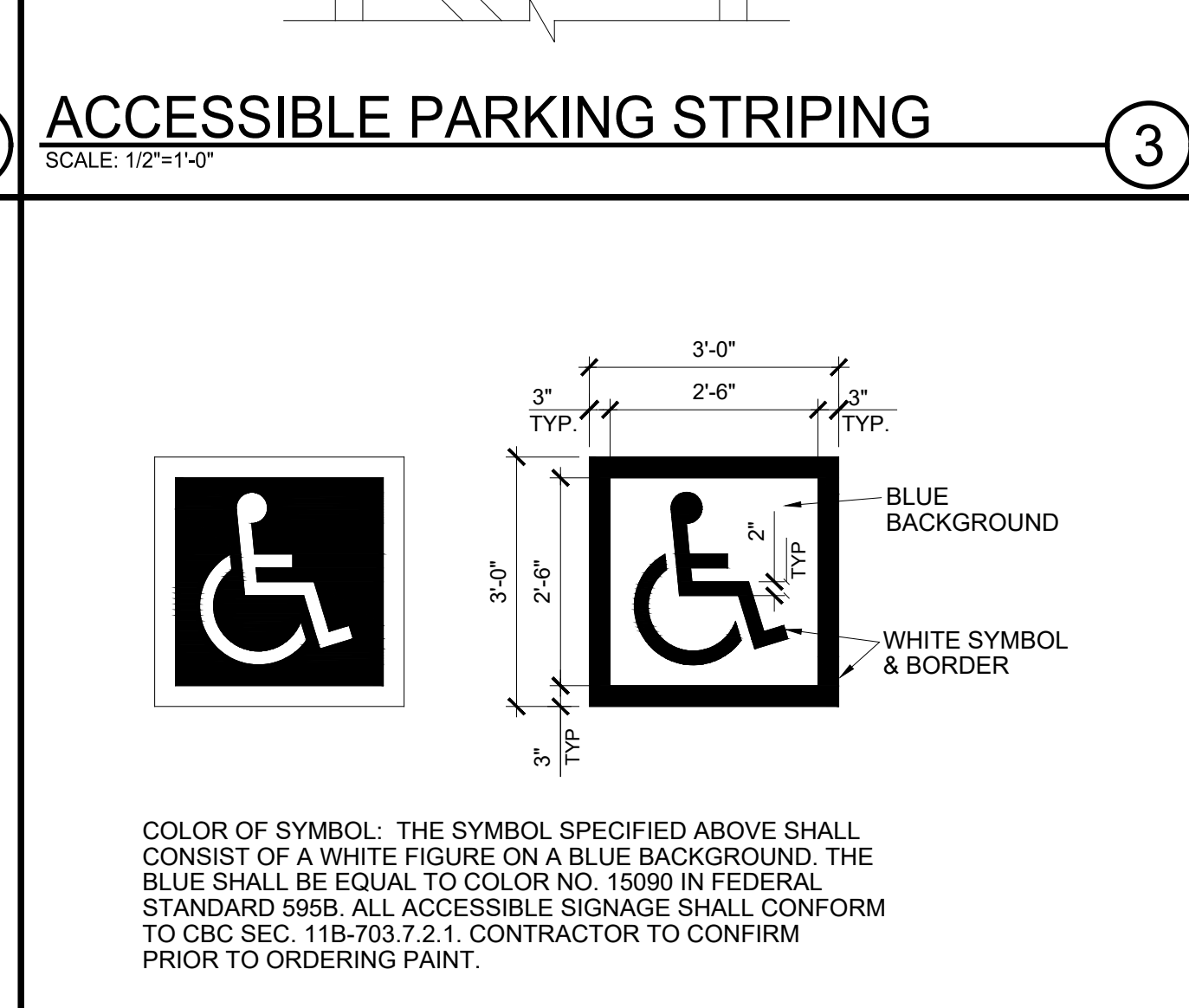
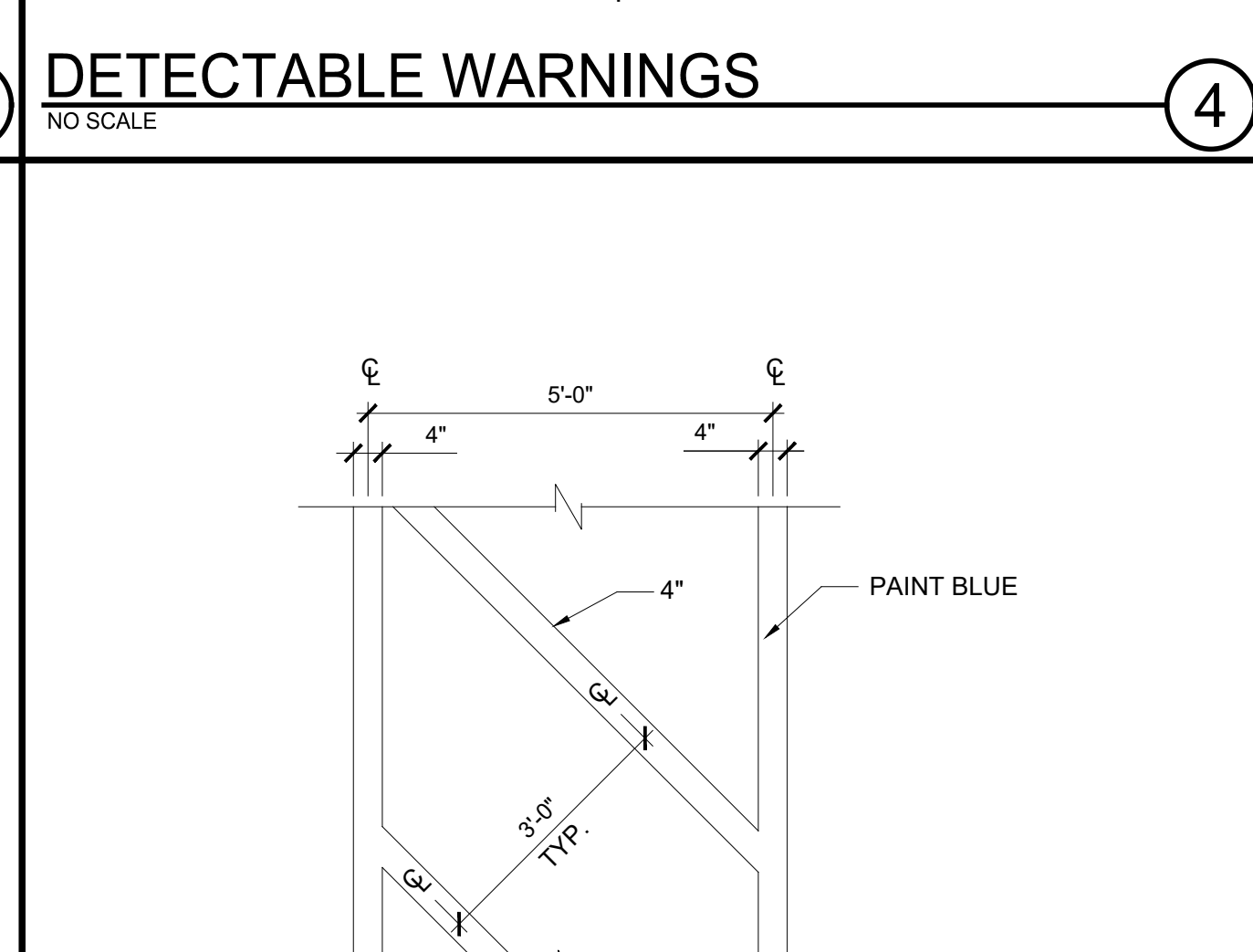
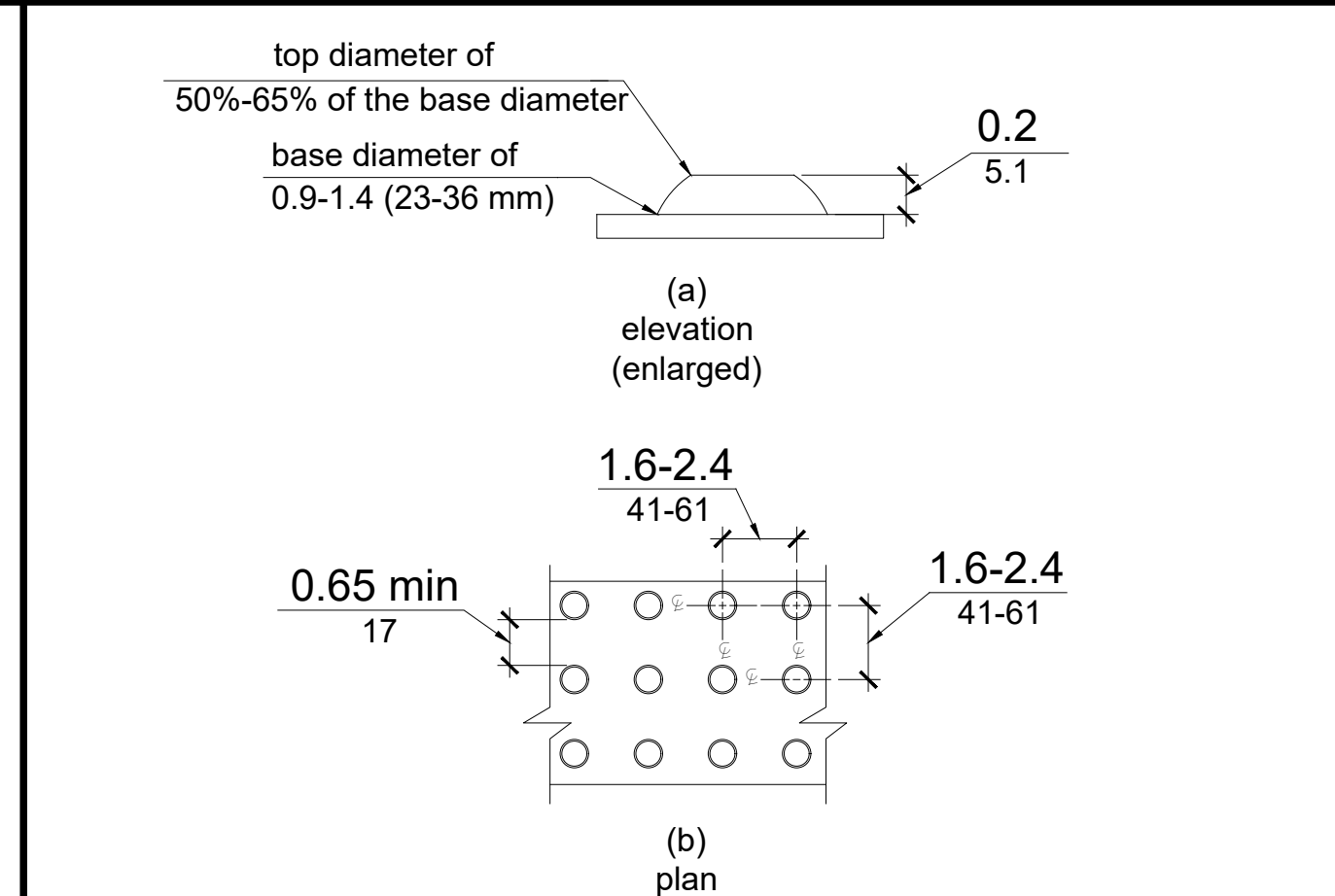
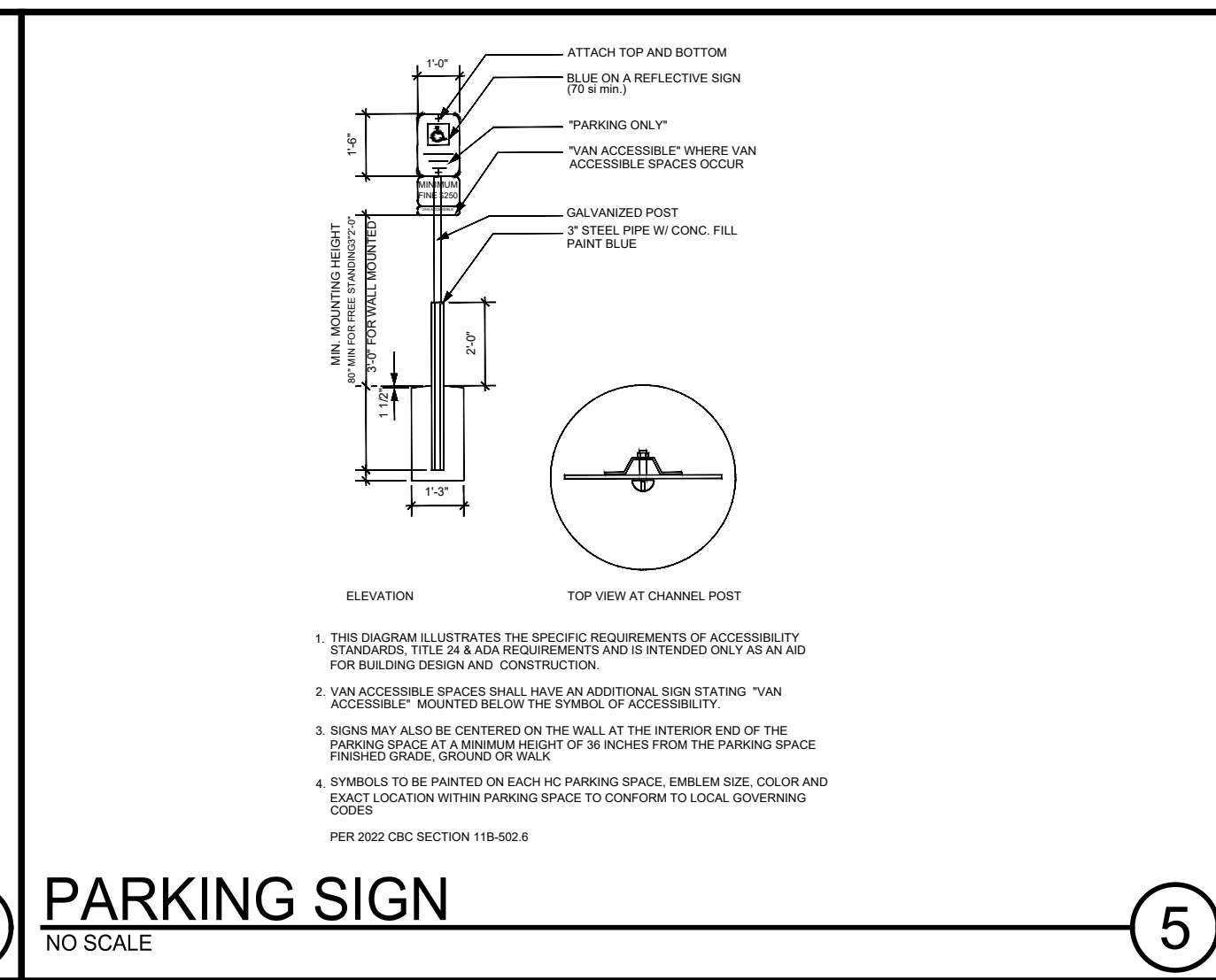
OUTLINE OF CAR PER CITY OF SB PARKING GUIDELINES

12'-0" FOR VAN

5'-0"

36" SQ PAVEMENT SYMBOL. SEE DETAIL 2--

NOTE: ALL STRIPING SHALL CONFORM TO CA TITLE 24 REQUIREMENTS. ALL DIMS. TO CENTERLINE OF STRIPING, UNO.



ACCESSIBLE PARKING SPACE
SCALE: 1/8"=1'-0"

6"x4'-0" CONCRETE CURB STOP PER CITY OF OXNARD PARKING GUIDELINES

70 SQ INCH ACCESSIBLE PARKING SIGN

18'-0"x17'-0" AREA MUST BE LEVEL

ACCESSIBLE ISLE - SEE DETAIL 3--

OUTLINE OF CAR PER CITY OF SB PARKING GUIDELINES

12'-0" FOR VAN

5'-0"

36" SQ PAVEMENT SYMBOL. SEE DETAIL 2--

NOTE: ALL STRIPING SHALL CONFORM TO CA TITLE 24 REQUIREMENTS. ALL DIMS. TO CENTERLINE OF STRIPING, UNO.

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ARCHITECT STAMP CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA. PLANNING # PLN2023-00327 PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
10-2-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
4-22-24 PLANNING DEPT. SUBMITTAL

REVISIONS:

PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
CHAPTER 11B - ADA REQUIREMENTS

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET ___ of ___

A8.3

Drawing name: C:\Users\Kevin\OneDrive\Documents\Temp\ADA\1620422004\SANSUM DIABETES RESEARCH INSTITUTE.dwg
PLOT DATE: Apr 22, 2024 - 9:47am
PLOT BY: Kevin

NOT USED

SCALE: _____

NOT USED

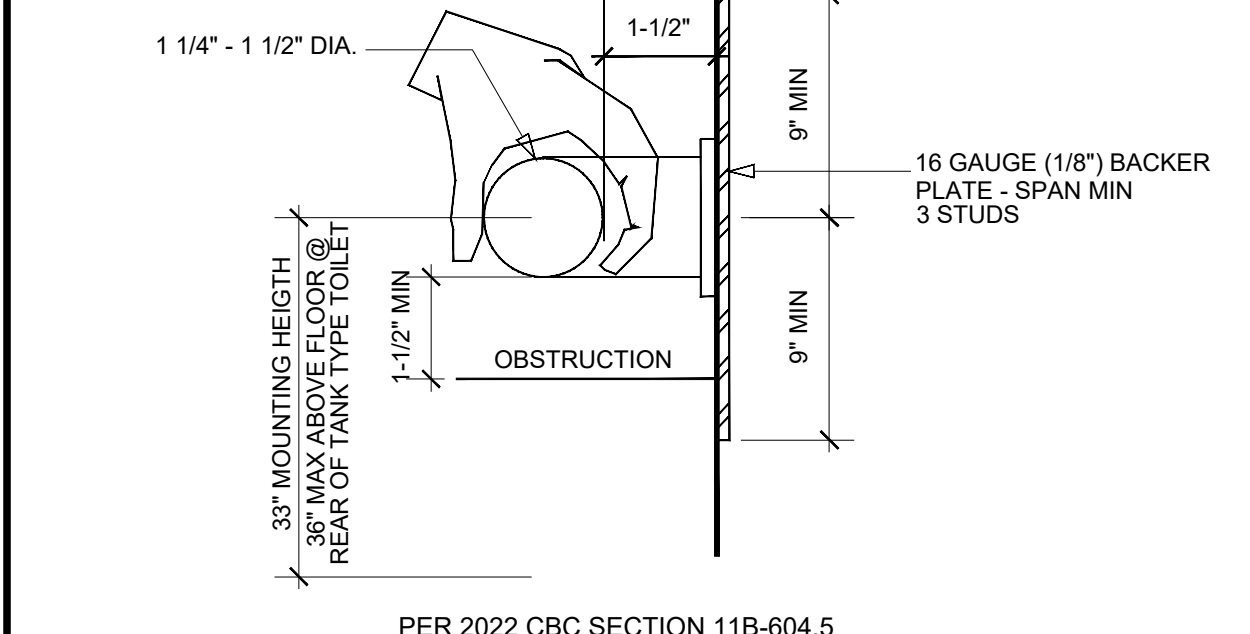
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SCALE: _____

ASSISTED LISTENING SYSTEMS

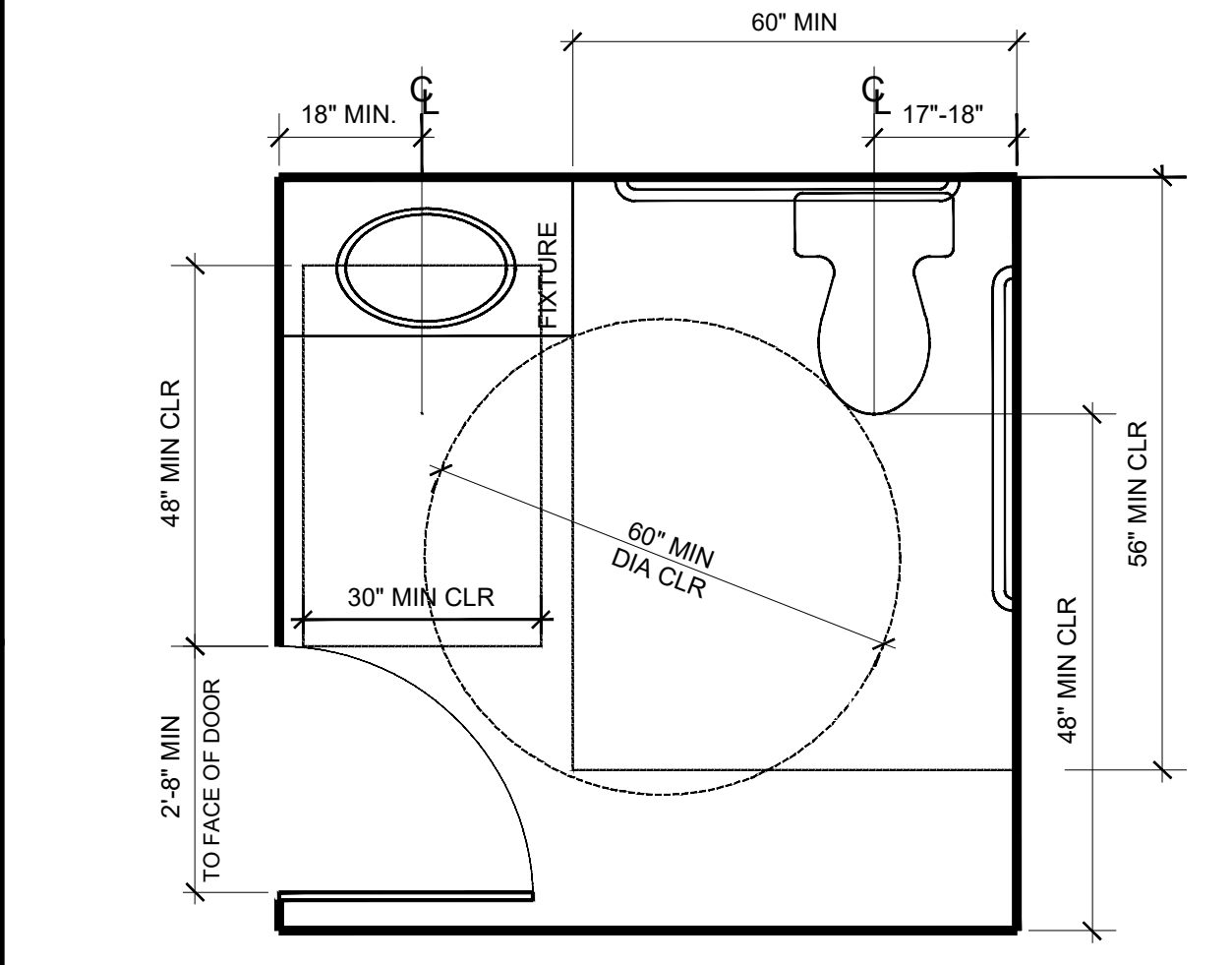
NO SCALE



- PER 2022 CBC SECTION 11B-604.5
- SPACING BETWEEN THE WALL AND THE INSIDE OF THE GRAB BAR SHALL BE 1-1/2"
 - GRAB BARS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIAMETER OF 1-1/4" MAX AND 2" MAX
 - GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS
 - GRAB BARS SHALL BE CAPABLE OF SUPPORTING A 250 LB LOAD, APPLIED TO ANY POINT, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE.

GRAB BAR

NO SCALE



PER 2022 CBC SECTION 11B-213.2

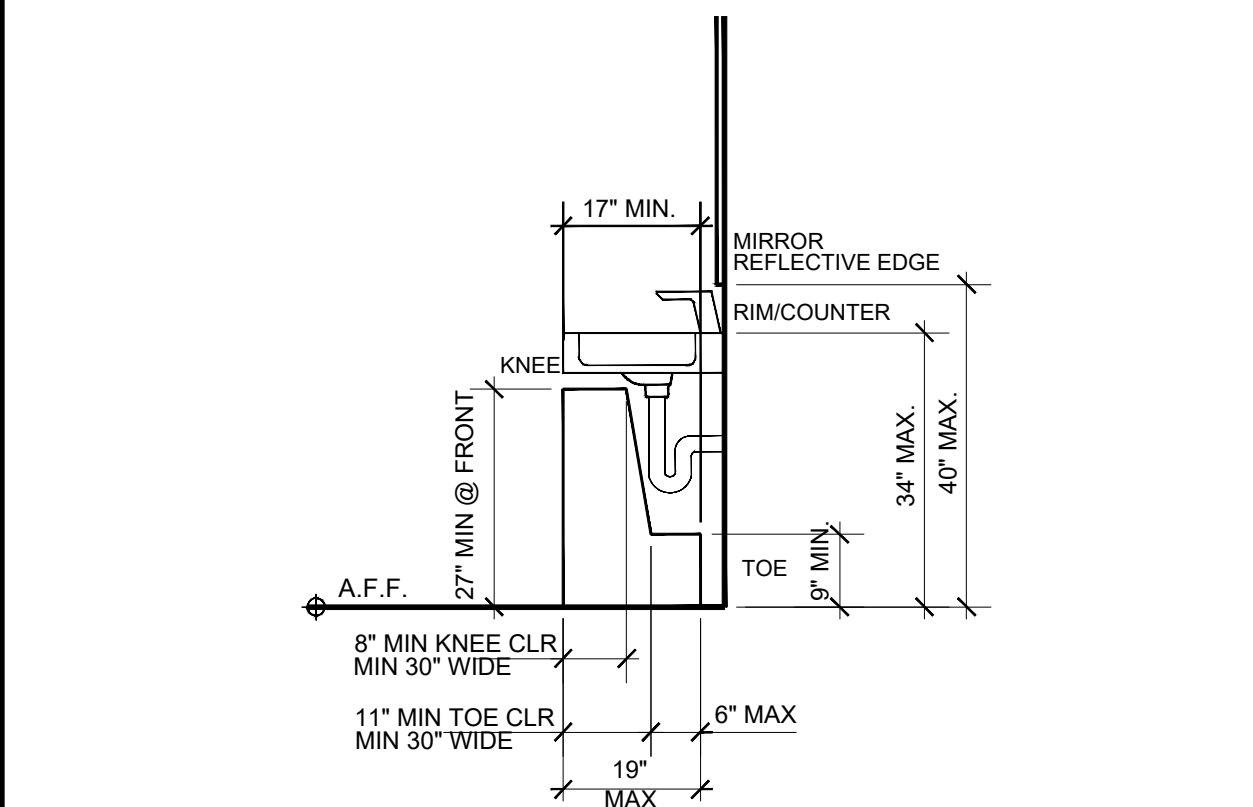
IT SHALL BE A 30" MIN X 48" MIN CLEAR SPACE TO PERMIT A WHEEL CHAIR TO ENTER THE ROOM AND CLOSE THE DOOR. THERE SHALL BE A CLEAR FLOOR SPACE 30" DIA MIN. DOORS SHALL NOT ENCRUSH INTO THIS 60" SPACE MORE THAN 2".

WATER CLOSET SHALL BE LOCATED 17"-18" MIN FROM CENTERLINE TO WALL. IN 28" CLR TO FIXTURE OR MIN 32" CLR TO WALL ON OPPOSITE SIDE. A MIN WIDE X 48" DEEP CLR SPACE SHALL BE PROVIDED IN FRONT OF THE WATER CLOSET.

ENTRY INTO AND THROUGH THE ROOM SHALL BE VIA AN ACCESSIBLE ROUTE OTHER THAN DWELLING UNITS. TOILET COMPARTMENT FLOORS SHALL HAVE A FINISH HARD, NONABSORBENT SURFACE THAT EXTENDS UPWARDS ONTO THE SINK. SINK, TOILET COMPARTMENT WALLS SHALL BE SIMILARLY FINISHED TO A 1/4" OF 48" MIN, EXCEPT FOR STRUCTURAL ELEMENTS.

SINGLE OCCUPANCY TOILET ROOM

NO SCALE



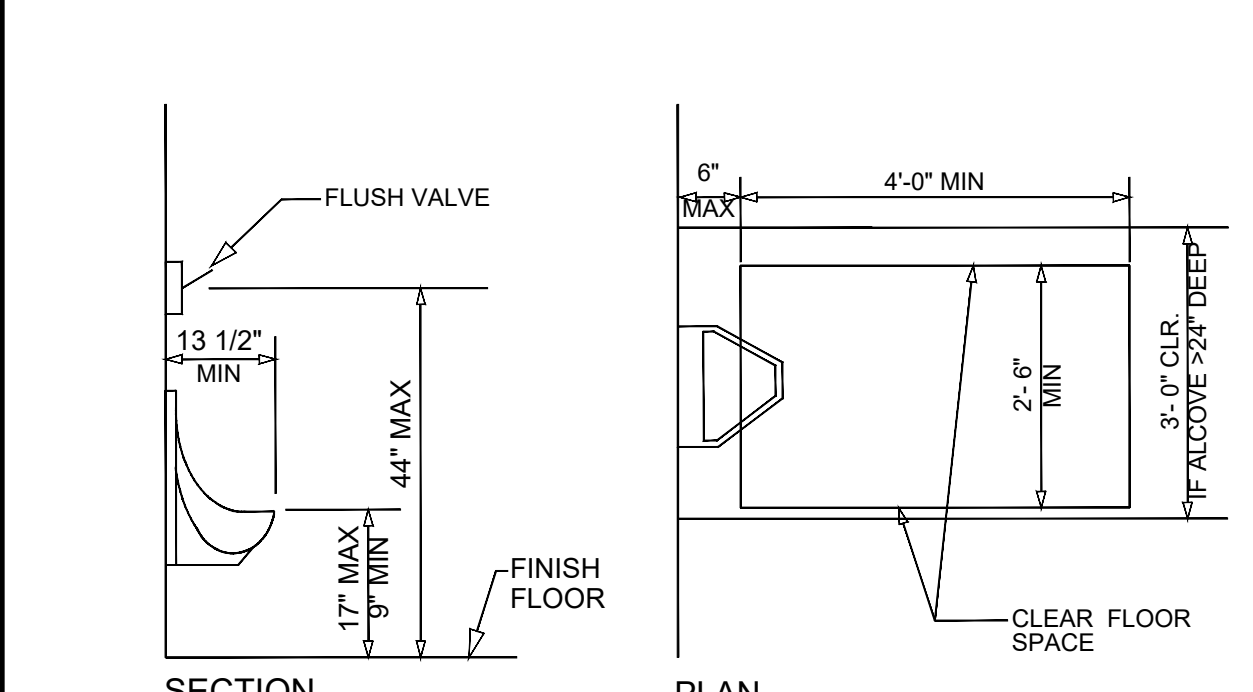
PER 2022 CBC SECTION 11B-606

LOCATION: THE LAVATORY SHALL BE LOCATED WITH THE CENTERLINE MIN 18" FROM AN ADJOINING WALL OR FIXTURE FOR FORWARD APPROACH. LAVATORIES SHALL HAVE A MAX HT OF 34" ABOVE THE FLOOR, MEASURED TO THE HIGHER OF THE FIXTURE RIM OR COUNTER SURFACE.

MANEUVERING: A 30" X 48" CLEAR SPACE SHALL BE CENTERED ON THE LAVATORY POSITIONED FOR FORWARD APPROACH.

LAVATORY / SINK

NO SCALE



NOTE: The diagram illustrates the specific requirements of accessibility standards, Title 24 & ADA Requirements and is intended only as an aid for building design and construction.

URINAL DIMENSIONS

NO SCALE

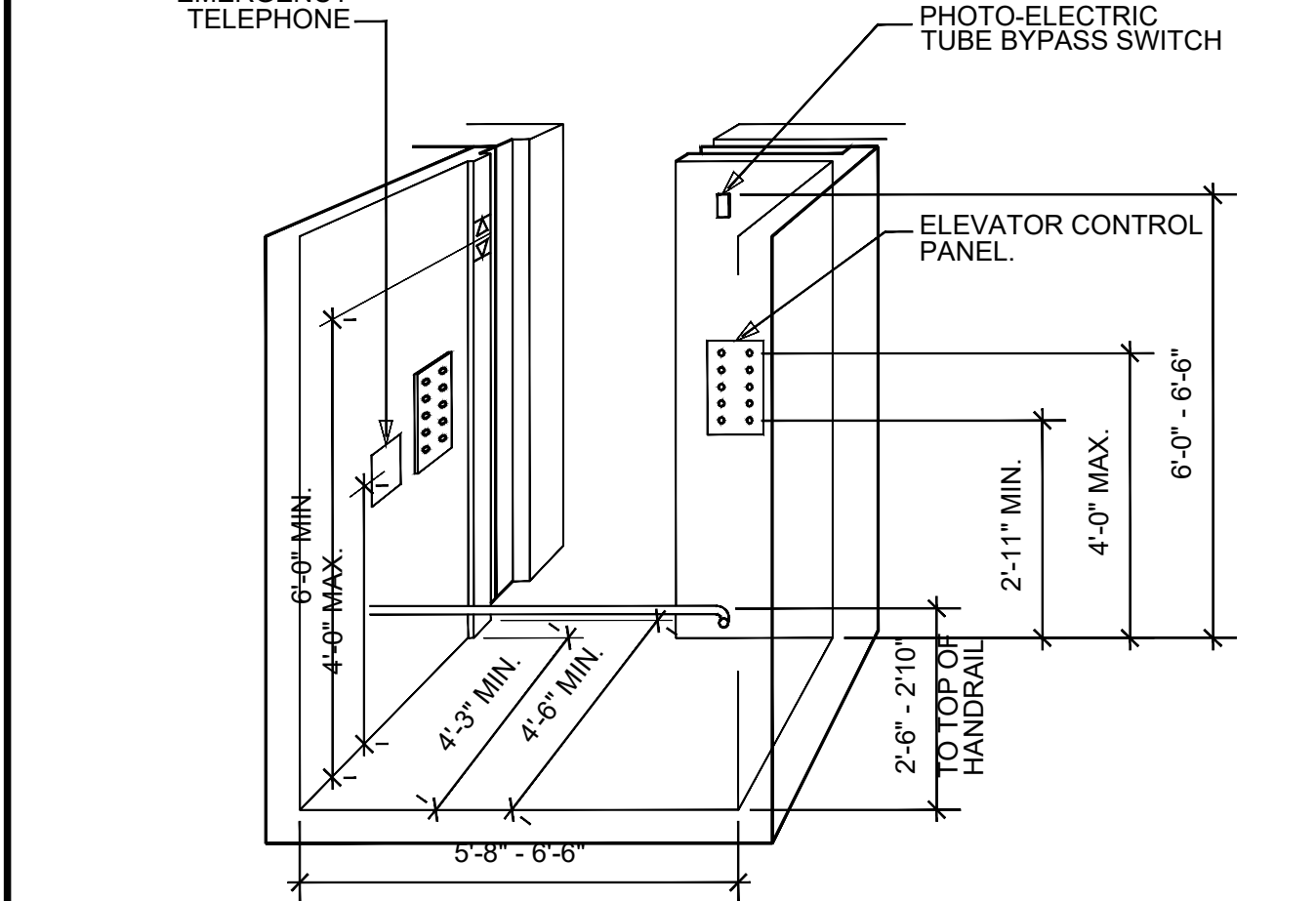
CONTROLS AND OUTLETS

SCALE: _____

- PER 2022 CBC SECTION 11B-604.2 thru 11B-604.7
- WATER CLOSETS SHALL BE POSITIONED WITH A WALL OR PARTITION TO THE REAR AND TO ONE SIDE. THE CENTERLINE SHALL BE 17" MIN TO 18" MAX FROM THE SIDE WALL OR PARTITION, EXCEPT FOR AMBULATORY ACCESSIBLE COMPARTMENTS NEED TO COMPLY WITH SECTION 11B-604.8.2.
 - CLEARANCES AROUND WATER CLOSETS AND IN TOILET COMPARTMENTS SHALL COMPLY WITH SECTION 11B-604.3
 - WATER CLOSET SEAT HEIGHT SHALL BE 17" MIN AND 19" MAX MEASURED TO TOP OF 2" MAX HIGH SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION.
 - GRAB BAR AT REAR AND SIDE SHALL BE MOUNTED AT 33"-36" HT WITH MIN 1-1/2" CLEARANCE BETWEEN TANK AND GRAB BAR. SIDE WALL GRAB BAR SHALL BE 42" LONG MIN. LOCATED 12" MAX FROM REAR WALL AND EXTENDING 64" MAX FROM REAR WALL. W/ FRONT END POSITIONED 24" MIN. IN FRONT OF THE WATER CLOSET. WHERE SEPARATE GRAB BARS ARE REQUIRED ON ADJACENT WALLS AT A COMMON MOUNTING HEIGHT, AN L-SHAPED GRAB BAR MEETING THE DIMENSIONAL REQUIREMENTS OF SECTION 11B-604.5.1 AND 11B-604.5.3 SHALL BE PERMITTED. GRAB BARS SHALL BE LOCATED AS SHOWN, PER 11B-604.5.1 and comply with 11B-609
 - CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF TOILET AREAS 44" MAX HT AND REQUIRE MAX FORCE OF 5 LBS TO OPERATE.
 - TOILET TISSUE DISPENSERS SHALL BE LOCATED 7" MIN X 8" MAX IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER AND 19" MIN HT TO BELOW GRAB BAR AS MEASURED TO CENTER OF DISPENSER MOUNT PER 11B-604.7.
 - OTHER TOILET COMPARTMENT FIXTURES SHALL BE LOCATED 40" MAX HT TO HIGHEST OPERABLE PART PER 11B-213.3

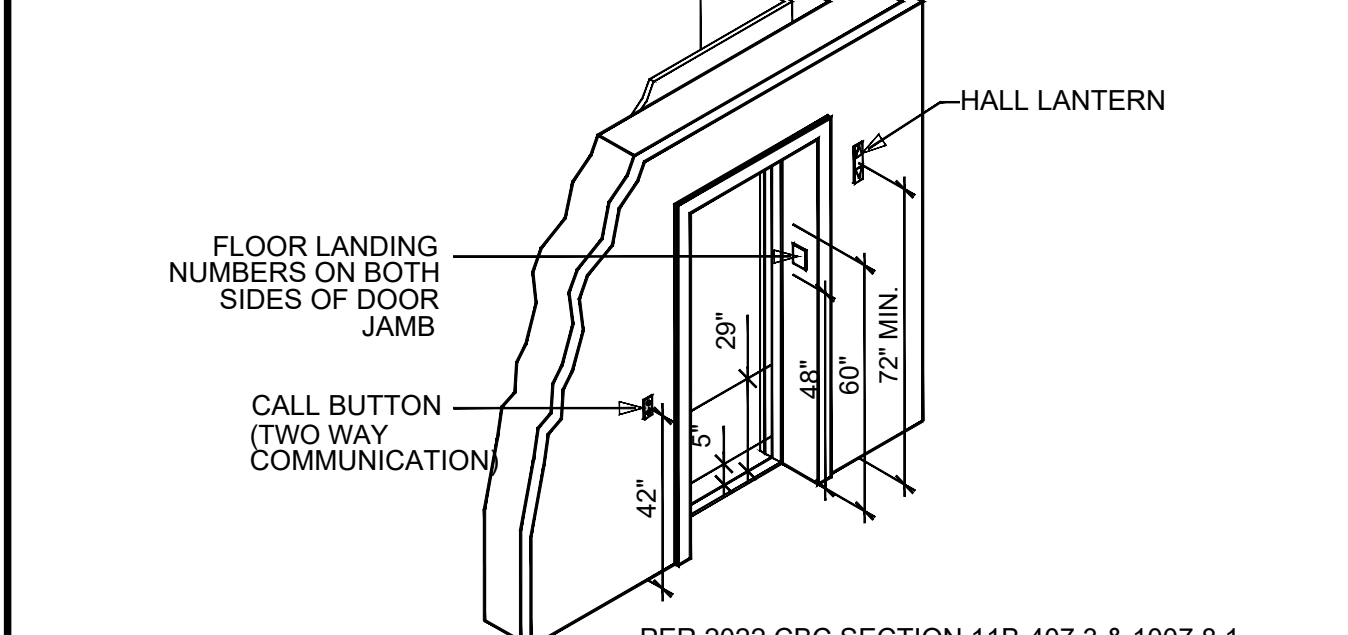
TOILET ROOM

NO SCALE



ELEVATOR INTERIOR

NO SCALE



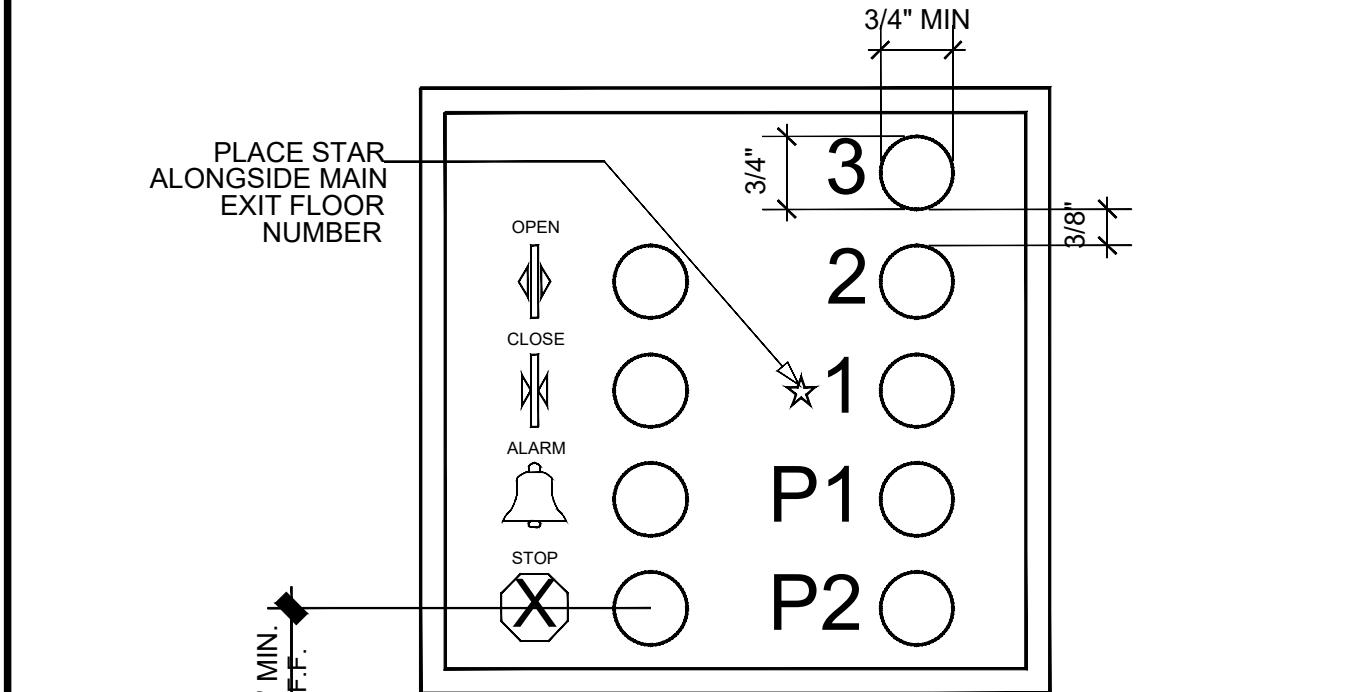
PER 2022 CBC SECTION 11B-407.3 & 1007.8.1

NOTE: THE AUTOMATIC DOOR REOPENING DEVICE IS ACTIVATED IF AN OBJECT PASSES THROUGH EITHER LINE A OR LINE B. LINE A AND LINE B REPRESENT THE VERTICAL LOCATION OF THE DOOR REOPENING DEVICE NOT REQUIRING CONTACT.

TWO-WAY COMMUNICATION SYSTEMS SHALL PROVIDE COMMUNICATION BETWEEN EACH REQUIRED LOCATION AND A CENTRAL CONTROL POINT. LOCATION APPROVED BY THE FIRE DEPT. WHERE THE CENTRAL CONTROL POINT IS NOT CONSTANTLY ATTENDED, A TWO-WAY COMMUNICATION SYSTEM SHALL HAVE A TIED AUTOMATIC TELEPHONE DIALOUT CAPABILITY TO AN APPROVED MONITORING LOCATION AND HAVE BOTH AUDIBLE AND VISUAL SIGNALS.

ELEVATOR CONTROL PANEL

NO SCALE



PER 2022 CBC SECTION 11B-407.4.6

ELEVATOR CONTROL PANEL

NO SCALE

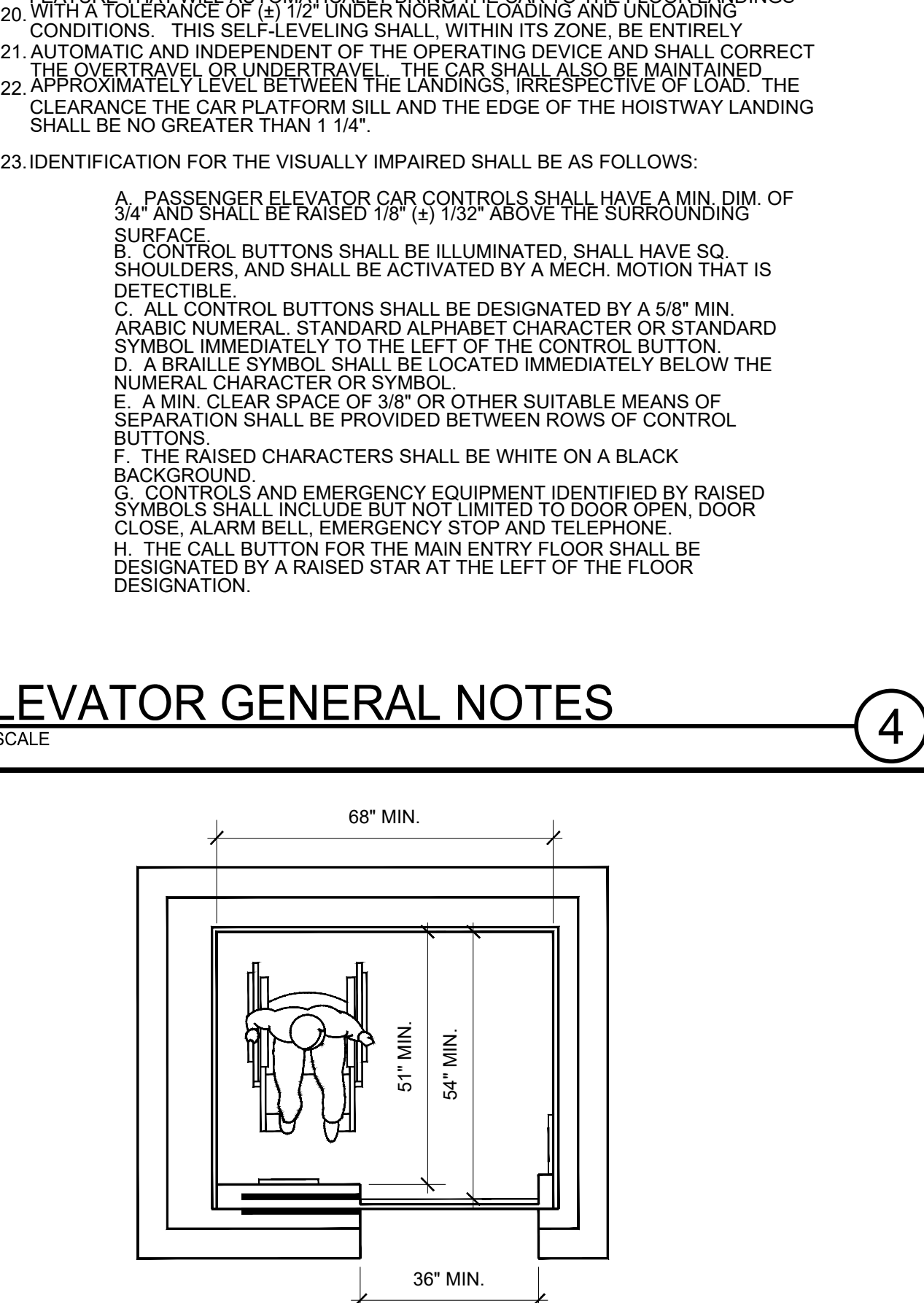
ADA DIMENSIONS OF ELEVATOR CAB

NO SCALE

- ALL ELEVATORS SHALL COMPLY WITH THE 2016 CBC CHAPTER 30, ADA & CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 2, VOLUME 1, SECTION 11B-407 AND TITLE 24.
- INSTALLATION OF THE ELEVATOR GUIDE RAIL SHALL NOT BE STARTED UNTIL DETAILED PLANS AND SPECIFICATIONS ARE APPROVED BY LOCAL OR STATE AGENCIES OR THE DIVISION OF STATE ARCHITECT. ALLOW 60 DAYS FOR APPROVAL. GUIDE-RAIL ENGINEERING IS REQUIRED TO BE APPROVED BY CITY OF SANTA BARBARA BUILDING & SAFETY BEFORE A BUILDING PERMIT WILL BE ISSUED.
- A HANDRAIL SHALL BE PROVIDED ON ONE WALL OF THE CAR, PREFERABLY THE REAR. THE RAIL SHALL BE SMOOTH AND THE NOMINAL HEIGHT OF 32" ABOVE THE FLOOR WITH A 1 1/4" - 1 1/2" TUBULAR GRAB BAR.
- FLOOR BUTTONS SHALL BE PROVIDED WITH VISUAL INDICATORS TO SHOW WHEN EACH CALL IS REGISTERED. THE VISUAL INDICATORS SHALL BE EXTINGUISHED WHEN EACH CALL IS ANSWERED.
- EXCEPT FOR PHOTO-ELECTRIC TUBE BY-PASS SWITCHES, EMERGENCY CONTROLS, INCLUDING THE EMERGENCY STOP AND ALARM, SHALL BE GROUPED IN OR ADJACENT TO THE BOTTOM OF THE PANEL AND SHALL BE NO LOWER THAN 2'-11" FROM THE FLOOR. FOR MULTIPLE CONTROLS ONLY, ONE SET MUST COMPLY WITH THESE HEIGHT REQUIREMENTS.
- CALL OPERATION BUTTONS SHALL BE WITHIN 3'-6" OF THE FLOOR. THE BUTTONS SHALL BE MIN OF 3/4" IN SIZE AND SHALL BE RAISED 1/8" (A) 1/32" ABOVE THE SURROUNDING SURFACE. VISUAL INDICATION SHALL BE PROVIDED TO SHOW EACH CALL REGISTERED AND EXTINGUISHED WHEN ANSWERED. OBJECTS ADJACENT TO AND BELOW HALL CALL BUTTONS SHALL NOT PROJECT MORE THAN 4" FROM THE WALL.
- THE EMERGENCY TELEPHONE HANDSET SHALL BE POSITIONED NO HIGHER THAN 4 FT. ABOVE THE FLOOR AND THE HANDSET CORD SHALL BE A MINIMUM OF 2'-5" IN LENGTH.
- IF THE TELEPHONE SYSTEM IS LOCATED IN A CLOSED COMPARTMENT, THE PROVISIONS OF SECTION 3304(C)(1) TYPE OF LOCK CANNOT BE USED TO THE INTERCOMMUNICATION SHALL NOT REQUIRE VOICE COMMUNICATIONS.
- A CAR POSITION INDICATOR SHALL BE PROVIDED ABOVE THE CAR OPERATING PANEL OR OVER THE OPENING OF EACH CAR TO SHOW THE POSITION OF THE CAR IN THE HOISTWAY BY ILLUMINATION CORRESPONDING TO THE LANDING AT WHICH THE CAR IS STOPPED PASSING.
- THE CAR POSITION INDICATOR SHALL BE ON A CONTRASTING COLOR BACKGROUND AND A MINIMUM OF 1/2" IN HEIGHT.
- AN AUDIBLE VERBAL ANNOUNCEMENT OR SIGNAL SHALL SOUND TO TELL PASSENGERS THAT THE CAR IS STOPPING OR PASSING A FLOOR SERVED BY THE ELEVATOR. THE AUDIBLE SIGNAL SHALL BE NO LESS THAN 20 DECIBELS WITH A FREQUENCY NO HIGHER THAN 1500 HZ.
- THE MINIMUM ILLUMINATION AT THE CAR AND LANDING DOORS ARE OPEN SHALL NOT BE LESS THAN 5 FOOT-CANDELES.
- A VISUAL AND AUDIBLE SIGNAL SHALL BE PROVIDED AT EACH HOISTWAY ENTRANCE INDICATING TO THE PROSPECTIVE PASSENGER THE CAR ANSWERING THE CALL AND ITS DIRECTION OF TRAVEL AS FOLLOWS:
A. VISUAL SIGNAL FOR EACH DIRECTION SHALL BE A MIN. OF 2 1/2" HIGH BY 2 1/2" WIDE AND BE LOCATED 5' FROM THE TOP OF THE HALL CALL BUTTON.
B. THE AUDIBLE SIGNAL SHALL SOUND ONCE FOR THE UP DIRECTION AND TWICE FOR THE DOWN DIRECTION OR OF A CONFIGURATION WHICH DISTINGUISHES BETWEEN UP AND DOWN ELEVATOR TRAVEL.
C. THE CENTERLINE OF THE FIXTURE SHALL BE LOCATED AT MIN. OF 6 FT. IN HEIGHT OF LOBBY FLOOR.
- THE USE OF IN-CAR LANTERNS, LOCATED IN OR ON THE CAR DOOR JAMBS, VISIBLE FROM THE PROXIMITY OF THE HALL CALL BUTTONS WILL BE ACCEPTABLE.
- PASSENGER ELEVATOR LANDING JAMBS ON ALL ELEVATOR FLOORS SHALL HAVE THE NUMBER OF THE FLOOR ON WHICH THE CAR IS STOPPED INDICATED BY RAISED ARABIC BRAILLE SYMBOLS WHICH CONFORM TO SECTION 3105(E). LOCATED APPROXIMATELY 5 FT. ABOVE THE FLOOR ON THE JAMB PANELS ON BOTH SIDES OF THE DOOR SO THAT THEY ARE VISIBLE FROM WITHIN THE ELEVATOR. RAISED BRAILLE SYMBOLS SHALL BE PLACED DIRECTLY TO THE LEFT OF THE CORRESPONDING RAISED ARABIC NUMERALS. THE RAISED CHARACTERS SHALL BE ON A CONTRASTING BACKGROUND.
- THE USE OF ARROW SHAPES IS PREFERRED FOR VISIBLE SIGNALS.
- POWER-OPERATED HORIZONTALLY SLIDING CAR AND HOISTWAY DOORS OPENED AND CLOSED BY AUTOMATIC MEANS SHALL BE PROVIDED.
- DOORS CLOSED BY AUTOMATIC MEANS SHALL BE PROVIDED WITH A DOOR REOPENING DEVICE WHICH WILL FUNCTION TO STOP AND RE-OPEN A CAR DOOR AND ADJACENT HOISTWAY DOOR IN CASE THE CAR DOOR IS OBSTRUCTED WHILE CLOSING. THIS REOPENING DEVICE SHALL ALSO BE CAPABLE OF SENSING AN OBJECT OR PERSON IN THE PATH OF THE CLOSING DOOR WITHOUT REQUIRING CONTACT FOR ACTIVATION AT A NORMAL 5" AND 29" ABOVE THE FLOOR. DOOR REOPENING DEVICES SHALL REMAIN OPEN FOR A PERIOD OF NOT LESS THAN 20 SECONDS. AFTER SUCH AN INTERVAL, THE DOORS MAY CLOSE.
- THE ELEVATOR SHALL BE AUTOMATIC AND BE PROVIDED WITH A SELF-LEVELING FEATURE THAT WILL AUTOMATICALLY BRING THE CAR TO THE FLOOR LANDINGS WITH A TOLERANCE AND INDEPENDENT OF THE OPERATING DEVICE AND SHALL CORRECT THE OVERTRAVEL OR UNDERTRAVEL. THE CAR SHALL ALSO BE MAINTAINED APPROXIMATELY LEVEL BETWEEN THE LANDINGS, RESPECTIVE OF LOAD. THE CLEARANCE THE CAR PLATFORM SHALL AND THE EDGE OF THE HOISTWAY LANDING SHALL BE NO GREATER THAN 1/4".
- IDENTIFICATION FOR THE VISUALLY IMPAIRED SHALL BE AS FOLLOWS:
A. PASSENGER ELEVATOR CAR CONTROLS SHALL HAVE A MIN. DIM. OF 3/4" AND SHALL BE RAISED 1/8" (A) 1/32" ABOVE THE SURROUNDING SURFACE.
B. CONTROL BUTTONS SHALL BE ILLUMINATED, SHALL HAVE SO. SHOULDERS, AND SHALL BE ACTIVATED BY A MECH. MOTION THAT IS DETECTABLE.
C. ALL CONTROL BUTTONS SHALL BE DESIGNATED BY A 5/8" MIN. ARABIC ALPHABET STANDARD ALPHABET CHARACTER OR STANDARD SYMBOL IMMEDIATELY TO THE LEFT OF THE CONTROL BUTTON.
D. A BRAILLE SYMBOL SHALL BE LOCATED IMMEDIATELY BELOW THE NUMERAL CHARACTER OR SYMBOL.
E. A MIN. CLEAR SPACE OF 3/8" OR OTHER SUITABLE MEANS OF SEPARATION SHALL BE PROVIDED BETWEEN ROWS OF CONTROL BUTTONS.
F. THE RAISED CHARACTERS SHALL BE WHITE ON A BLACK BACKGROUND.
G. CONTROLS AND EMERGENCY EQUIPMENT IDENTIFIED BY RAISED SYMBOLS SHALL INCLUDE BUT NOT LIMITED TO DOOR OPEN, DOOR CLOSE, ALARM BELL, EMERGENCY STOP AND TELEPHONE.
H. THE CALL BUTTON FOR THE MAIN ENTRY FLOOR SHALL BE DESIGNATED BY A RAISED STAR AT THE LEFT OF THE FLOOR DESIGNATION.

ADA DIMENSIONS OF ELEVATOR CAB

NO SCALE



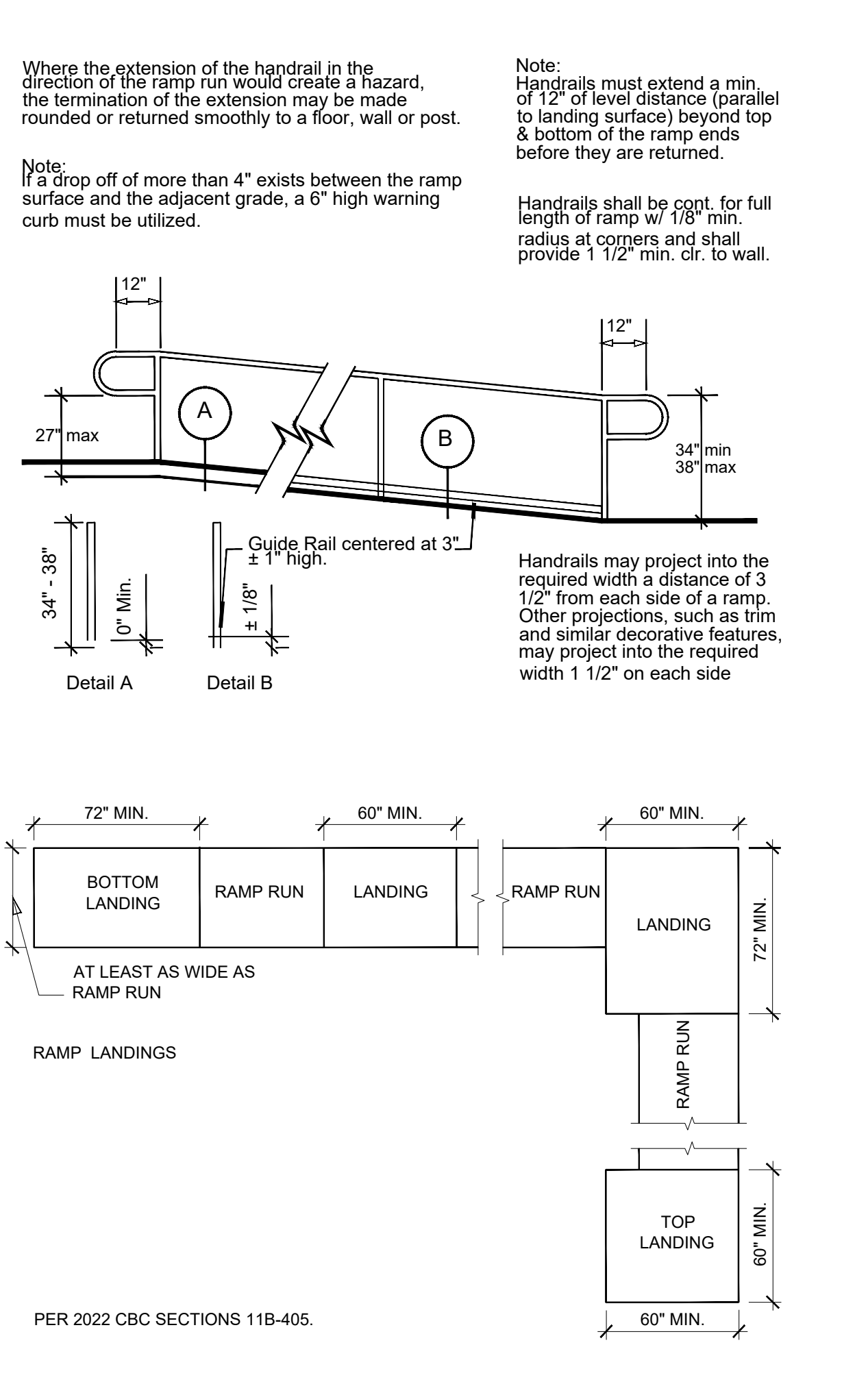
PER 2022 CBC SECTION 11B-407.4.1

ADA DIMENSIONS OF ELEVATOR CAB

NO SCALE

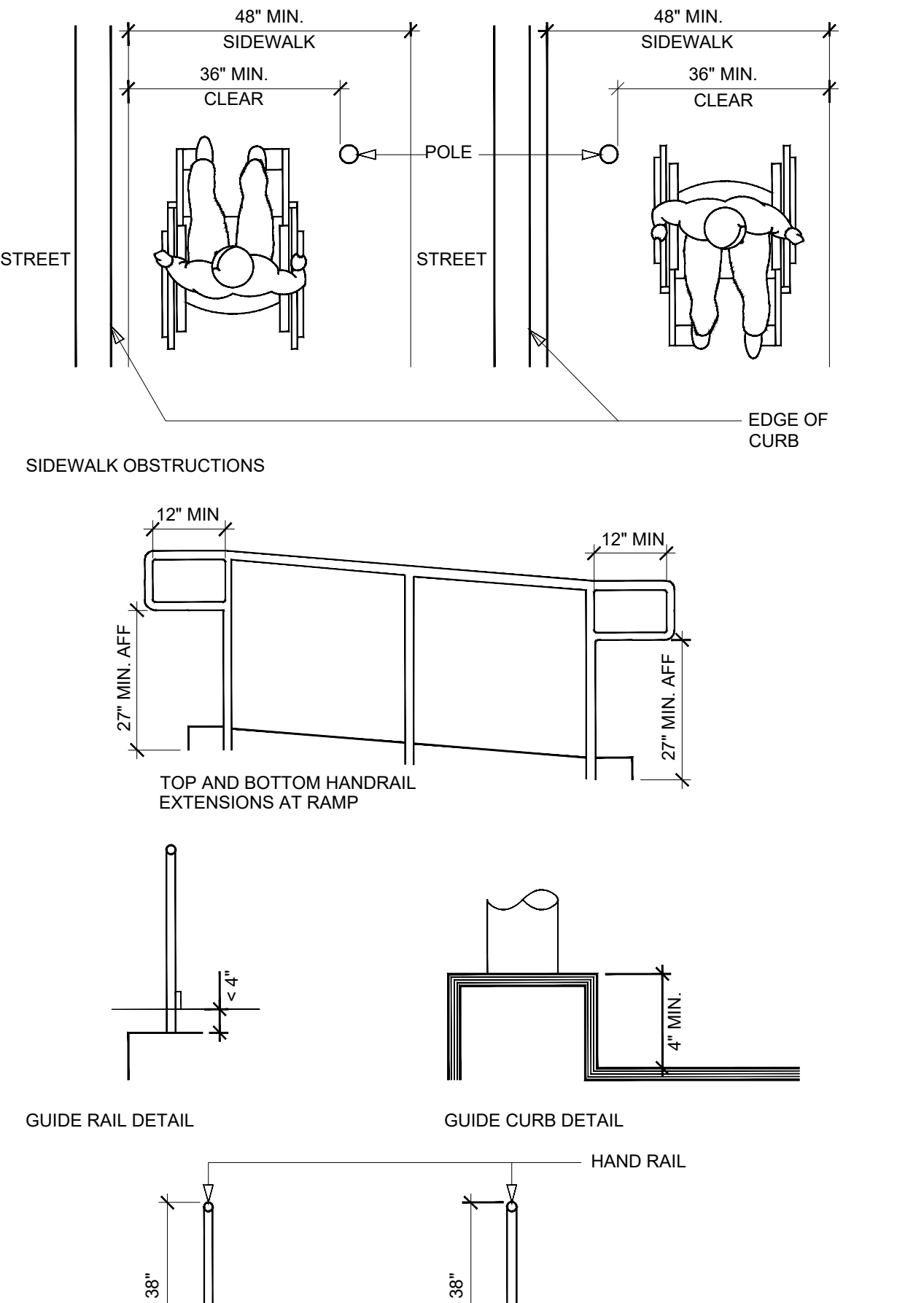
TYPICAL RAMP & RAILING CONDITIONS

NO SCALE



TYPICAL RAMP & RAILING CONDITIONS

NO SCALE



PER 2022 CBC SECTIONS 11B-505.10

LIMITS OF PROTRUDING OBJECTS

NO SCALE

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Electrical Engineering Lighting Design

ARCHITECT STAMP CONSULTANT STAMP
LICENSED ARCHITECT
NO. C 27768
EXPIRES 12-31-24
STATE OF CALIFORNIA

AGENCY APPROVAL: CITY OF SANTA BARBARA.
PLANNING #: PLN2023-00327
PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
10-2-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
4-22-24 PLANNING DEPT. SUBMITTAL

REVISIONS:

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
CHAPTER 11B - ADA REQUIREMENTS
DATE: 12-30-22
DRAWN BY: KEVIN M. MURPHY
JOB NUMBER: 22004
SHEET ___ of ___

A8.4

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

CHAPTER 3 GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 3 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of \$200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:
Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 et seq. for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant Improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 nonresidential additions and alterations.

ABBREVIATION DEFINITIONS:
HCD Department of Housing and Community Development
BSC California Building Standards Commission
DSA-SS Division of the State Architect, Structural Safety
OSHPD Office of Statewide Health Planning and Development
LR Low Rise
HR High Rise
AA Additions and Alterations
N New

CHAPTER 5 NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL
5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS
5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 (and are included here for reference):

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candlepower 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 90 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMISSION AND FUEL EFFICIENT VEHICLES. Eligible vehicles are limited to the following:
1. Zero emission vehicle (ZEV), enhanced advanced technology ZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CRS Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 or 10 as required under 49 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ride-sharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT
5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs, but are not limited to, the following:
1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
a. Scheduling construction activity during dry weather, when possible.
b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
c. Drainage swales or lined ditches to control stormwater flow.
d. Mulching or hydrosediment to stabilize disturbed soils.
e. Erosion control to protect slopes.
f. Protection of storm drain inlets (gravel bags or catch basin inserts).
g. Perimeter sediment control (perimeter silt fence, fiber rolls).
h. Sediment trap or sediment basin to retain sediment on site.
i. Stabilized construction cuts.
j. Wind erosion control.
k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
a. Dewatering activities.
b. Material handling and waste management.
c. Building materials stockpile management.
d. Management of washout areas (concrete, paints, stucco, etc.).
e. Control of vehicle/equipment fueling to contractor's staging area.
f. Vehicle and equipment cleaning performed off site.
g. Spill prevention and control.
h. Other housekeeping BMPs acceptable to the enforcing agency.

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversion design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2, or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one or two bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant-occupant parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:
1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicyclist Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.

5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building project. Accessible bicycle facilities shall be convenient from the street or staff parking area and shall meet one of the following:
1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
a. Where there is no local utility power supply.
b. Where the local utility is unable to supply adequate power.
c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements: 10-114 of the California Administrative Code; and
1. Raceways complying with the California Electrical Code and no less than 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable space and into a suitable listed cabinet, box enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (S) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices (s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)*2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total ¹	25% of EV capable spaces ²

1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is cumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3 Use of automatic load management systems (ALMS). ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section 5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously providing multiple EVs.

5.106.5.3.4 Accessible EVCS. When EVSE is installed, accessible EVCS shall be provided in accordance with the California Building Code, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to California Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N] Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.

Exceptions:
1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
a. Where there is no local utility power supply.
b. Where the local utility is unable to supply adequate power.
c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
When EVSE(s) are installed, it shall be in accordance with the California Building Code, the California Electrical Code and as follows:
5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformers(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

5.106.5.4.2 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceway(s) or busway(s) and adequate capacity for transformers(s), service panel(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:
1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium- and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1.
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium- and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

5.106.8 LIGHT POLLUTION REDUCTION. [N] 1. Outdoor lighting systems shall be designed and installed to comply with the following:
1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8).
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8. [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]
1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8
5. Alternate materials, designs and methods of construction.
6. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
	Greater than 90,000	3 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
	Greater than 135,000	3 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
	Greater than 256,000	3 or Greater	400

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING Luminaire greater than 2 mounting heights (MH) from property line Luminaire back hemisphere is 1-2 MH from property line Luminaire back hemisphere is 0.5-1 MH from property line Luminaire back hemisphere is less than 0.5 MH from property line	N/A	No Limit	No Limit	No Limit	No Limit
MAXIMUM ALLOWABLE UPLIGHT RATING (U) For area lighting For all other outdoor lighting including decorative luminaires	N/A	U0	U0	U0	U0
	N/A	U1	U2	U3	UR

MAXIMUM ALLOWABLE GLARE RATING (G)

MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G1	G2	G3	G4
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G1	G1	G2
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G0	G1	G1
MAXIMUM ALLOWABLE GLARE RATING (G)	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the California Energy Code and Chapter 10 of the California Administrative Code.
2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purposes of determining compliance with this section.
3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaires located in these areas shall meet U-value limits for "all other outdoor lighting"

5.106.8.1 Facing-Backlight
Luminaires within 2M of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is between the luminaire. The luminaire shall still use the distance to the nearest point(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2M of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.
Note: [N]
1. See also California Building Code, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2. Refer to Chapter 9 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1, California Energy Code Tables 130.2-A and 130.2-B.
3. Refer to the California Energy Code for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will provide shade of 20% of the landscape area within 15 years.
Exceptions: Methods of methods to manage surface water include, but are not limited to, the following:
1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 Shade Trees [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.
Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.
Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.
Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play fields of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY
SECTION 5.201 GENERAL
5.201.1 Scope. [BSC-CG] California Energy Code (DSA-SS). For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION
SECTION 5.301 GENERAL
5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS
5.302.1 Definitions. The following terms are defined in Chapter 2 (and are included here for reference):

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETA) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which as two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA (DSA-SS). The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior area such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthy processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

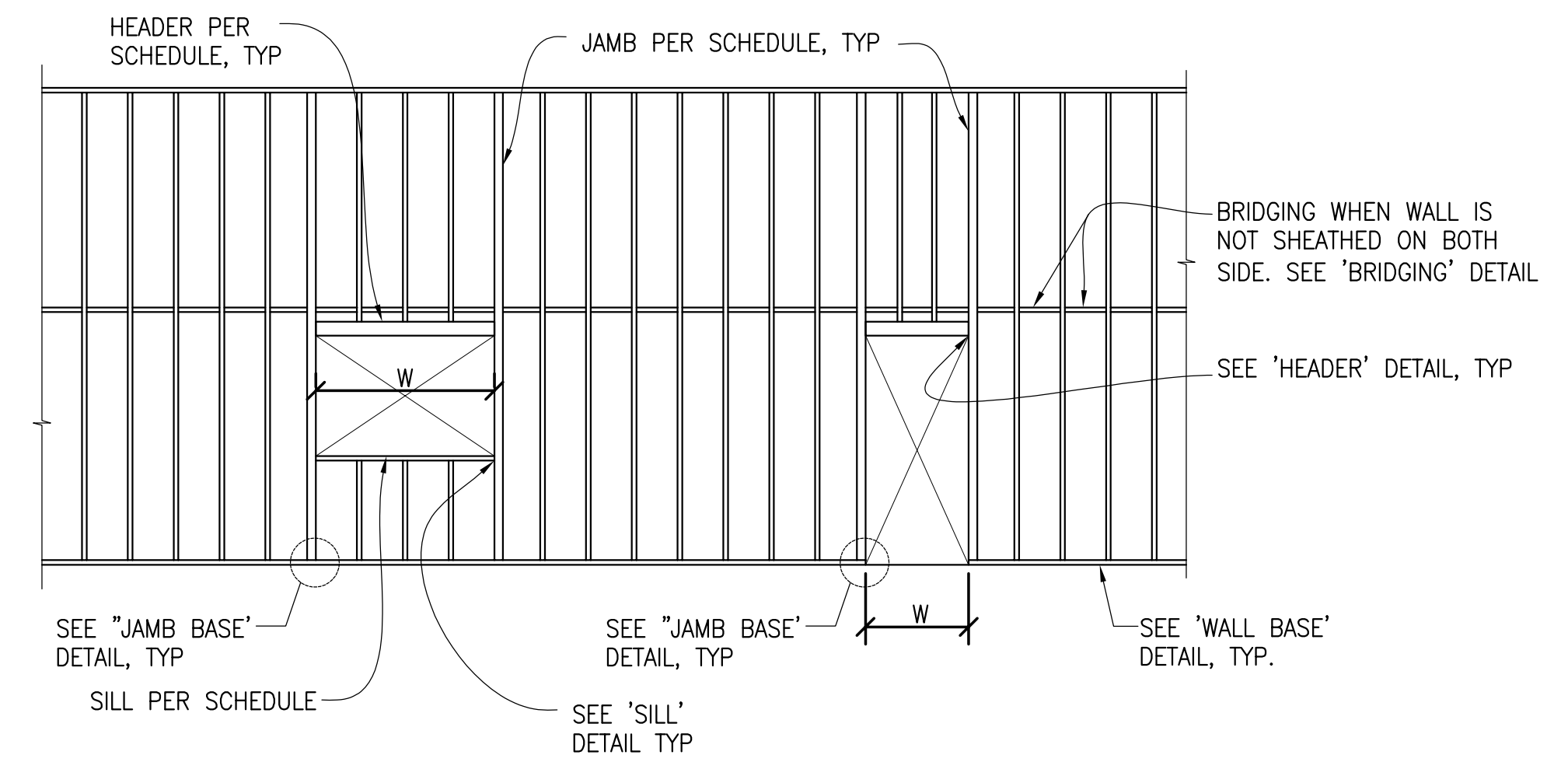
POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority having jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur (Water Code Section 13055) (n). Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD] A secondary device between a meter that measures water consumption of an individual rental unit within a multifamily residential structure or mixed-use residential and commercial structure. (See Civil Code Section 1954.202 (g) and Water Code Section 517 for additional details).

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum allowed water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

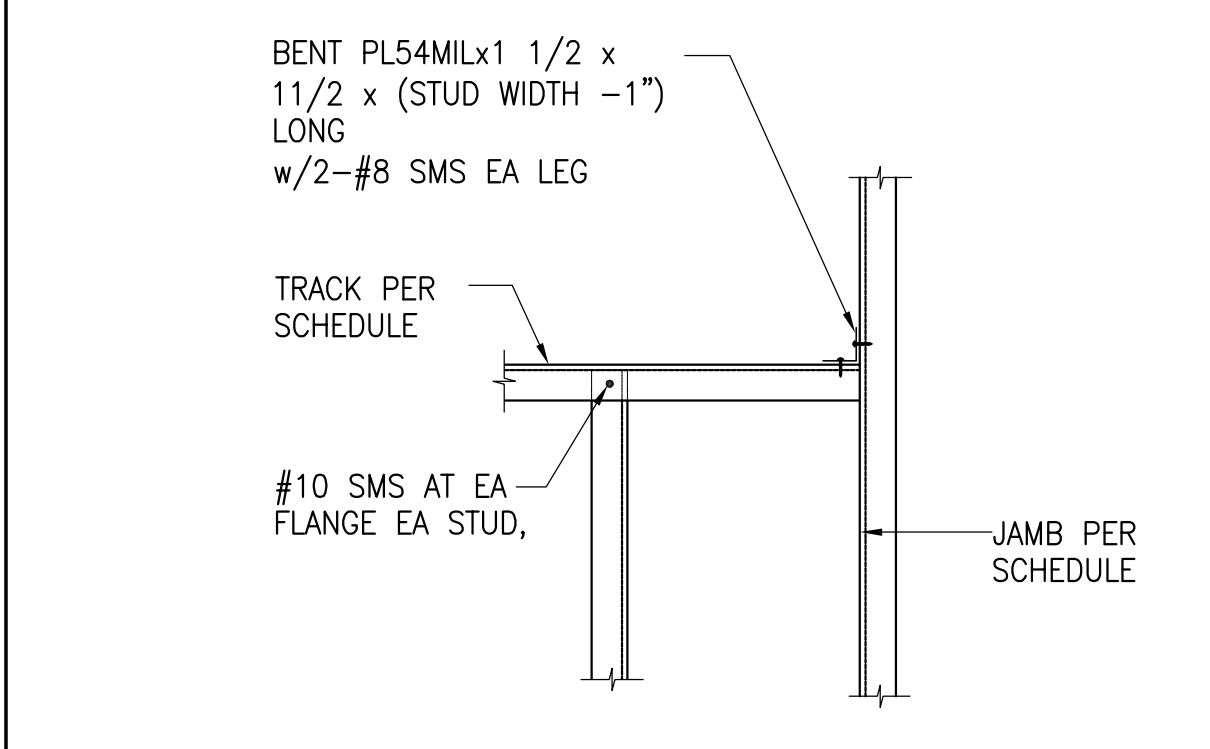
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PLOT DATE: Apr 22, 2023 - 9:47am
PLOT BY: Kevin



5 STUD WALL FRAMING

OPENING WIDTH	HEADER		JAMB		SILL	
	EXTERIOR WALL & BEARING WALL	INTERIOR NON-BEARING WALL	INTERIOR WALL & BEARING WALL	INTERIOR NON-BEARING WALL	EXTERIOR WALL & BEARING WALL	INTERIOR NON-BEARING WALL
'W' ≤ 4'-0"	2-600S162-43 & 2-600T150-43	2-600S162-43 & 2-XXXT150-43	600S162-54	XXXS162-54	600T150-43	XXXT150-43
4'-0" < 'W' ≤ 10'-0"	2-1200S162-54 & 2-600T150-54	2-600S162-43 & 2-XXXT150-43	600S200-97	XXXS162-68	600T150-68	XXXT150-54

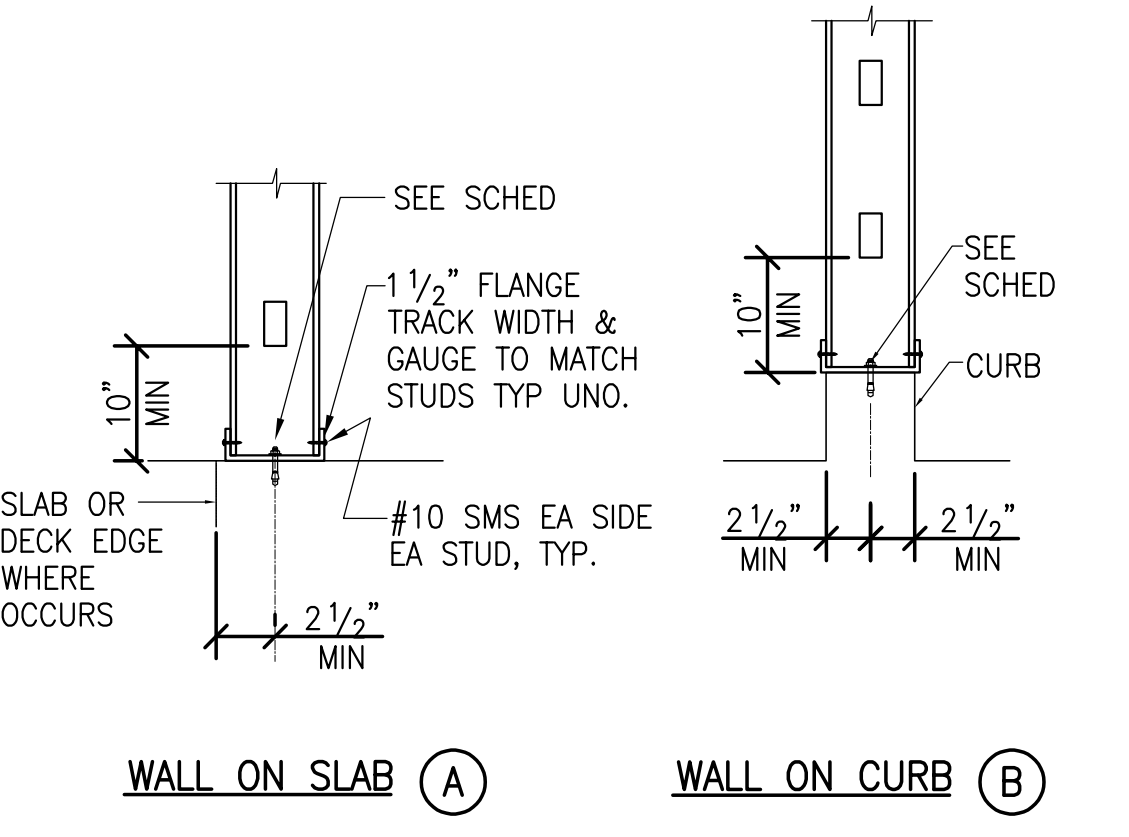
NOTES:
1. HEADER AND JAMB THICKNESS SHALL BE IN ACCORDANCE WITH THE SCHEDULE OR TYPICAL WALL STUD THICKNESS WHICHEVER IS GREATER
2. XXX = WALL STUD WIDTH



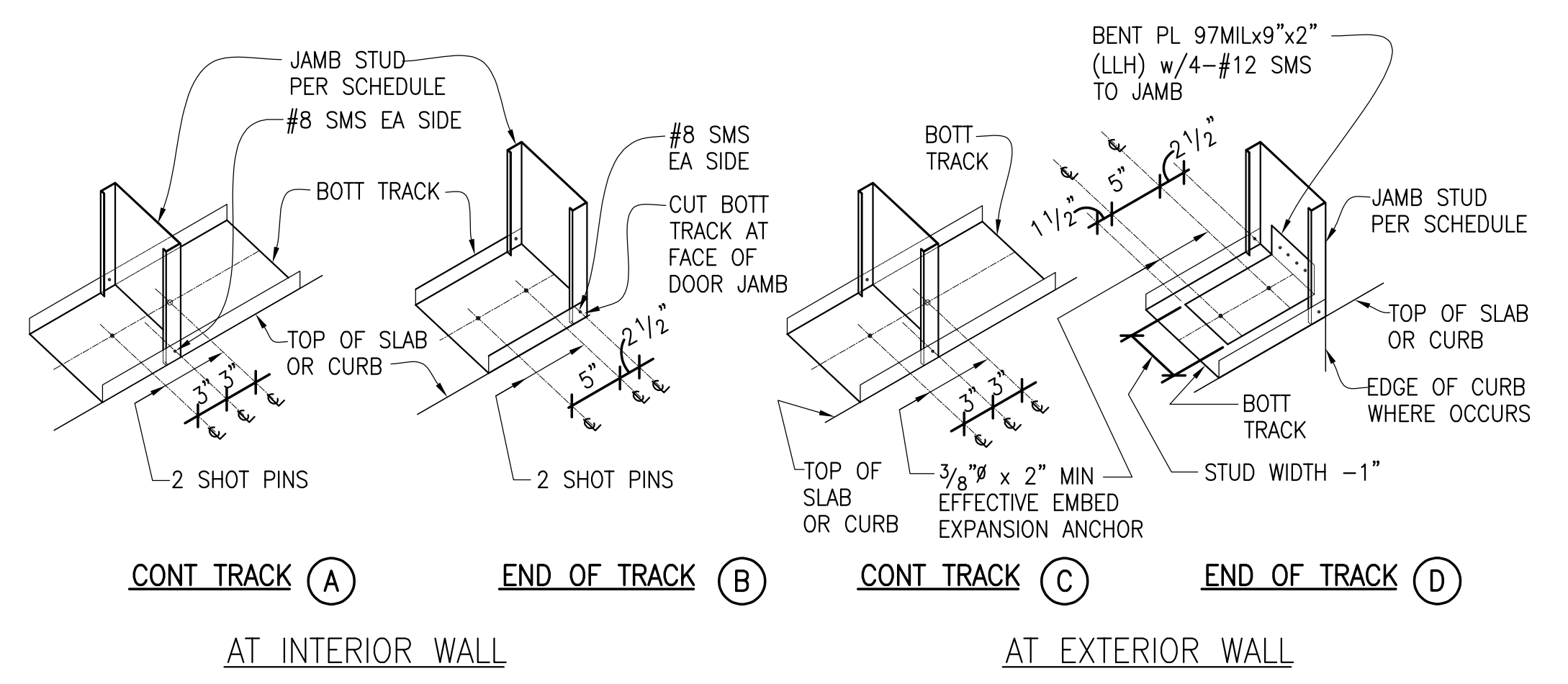
8 SILL STUD WALL FRAMING SCHEDULE

FASTENER SCHEDULE	
INTERIOR WALL	EXTERIOR WALL
SHOT PINS @ 16"	3/8" x 2" EMBED HILTI KWIK BOLT TZ @ 16"

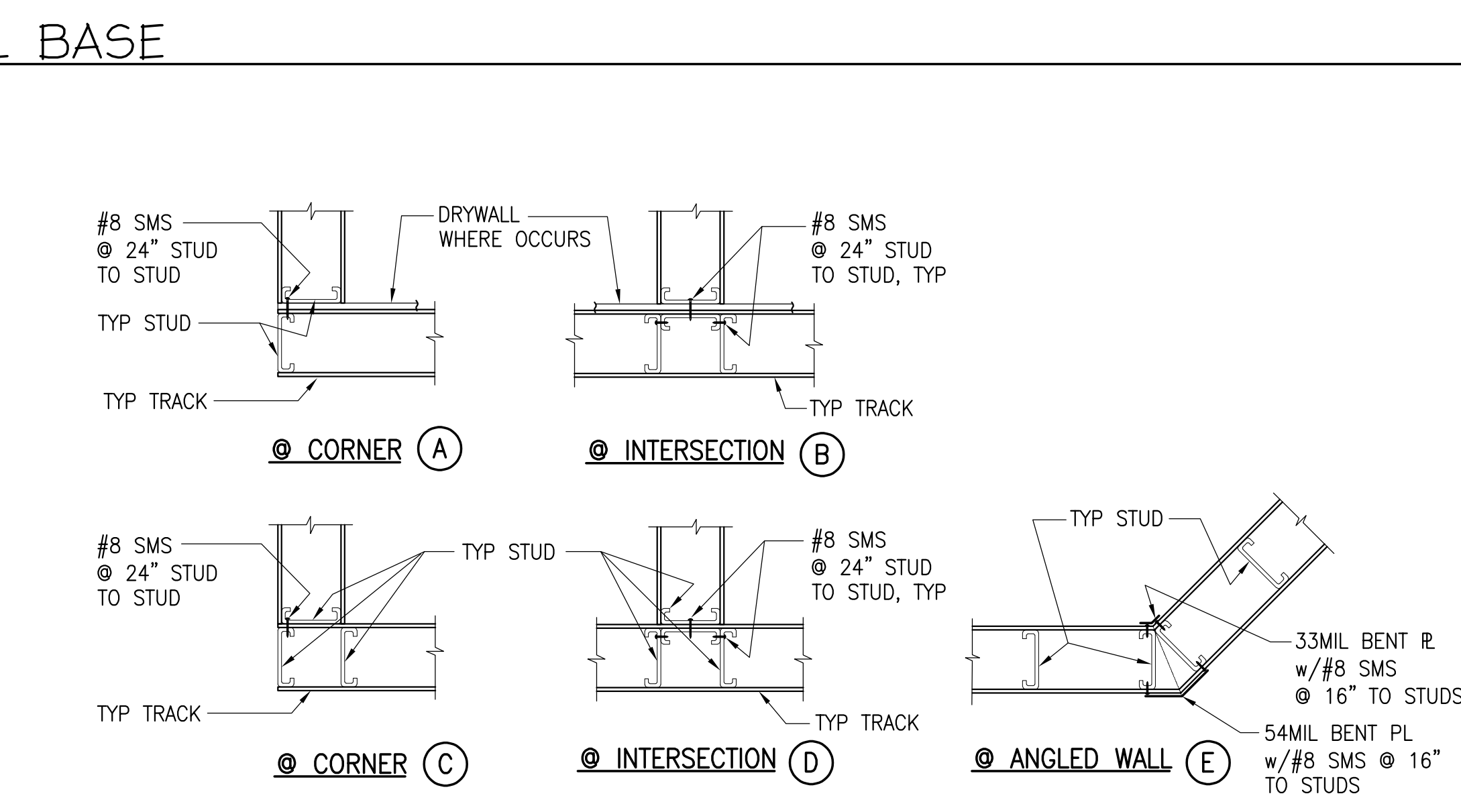
- LOCATE FASTENER 3" MIN-8" MAX FROM EA END OF TRACK.
- WHERE CURB WIDTH IS LESS THAN 5", PROVIDE 3/8" x 8" EMBED CAST-IN-PLACE HEDGED ANCHOR BOLTS @ 32". LOCATE BOLTS AT CENTER OF CURB. CURB WIDTH SHALL BE 4" MINIMUM. STUDS LESS THAN 4" WIDE SHALL NOT BE SUPPORTED ON CURB UNLESS CURB IS 4" WIDE (MIN) AND BOLTS ARE CENTERED ON CURB.



6 WALL BASE

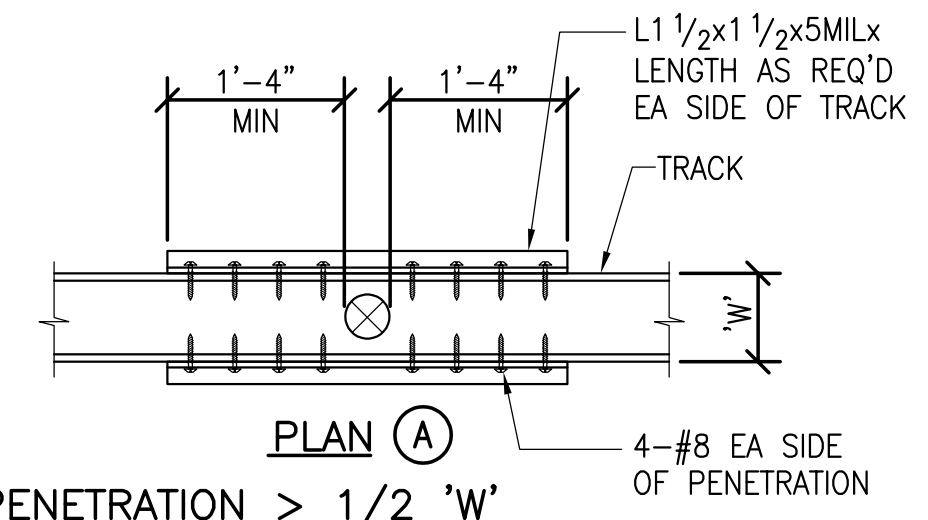


7 BRIDGING

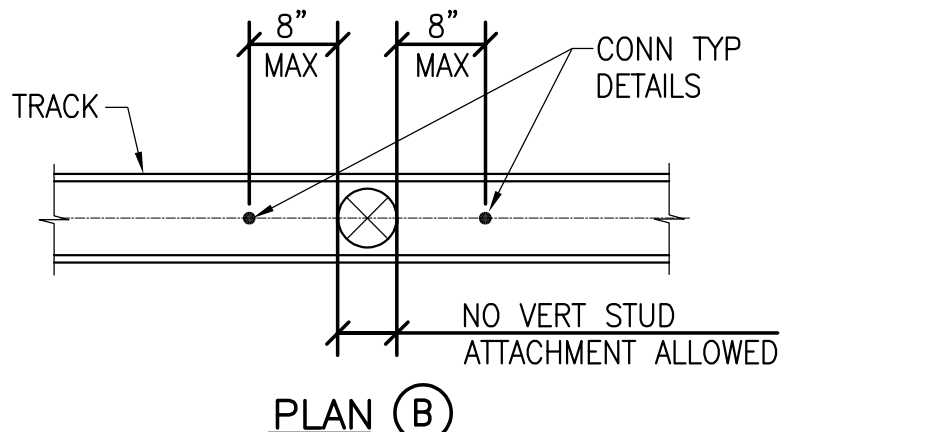


9 WALL INTERSECTIONS

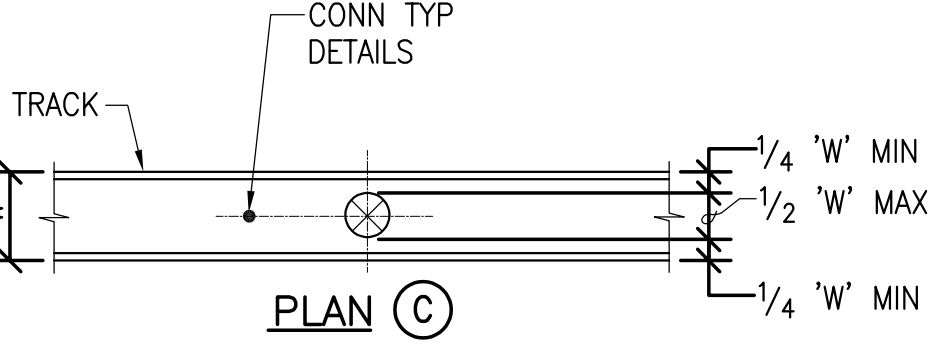
TRACK DESIGNATION	'W'	1/2 'W'	1/4 'W'
250TXXX-XX	2 1/2"	1 1/4"	3/4"
400TXXX-XX	4"	2"	1"
600TXXX-XX	6"	3"	1 1/2"
800TXXX-XX	8"	4"	2"



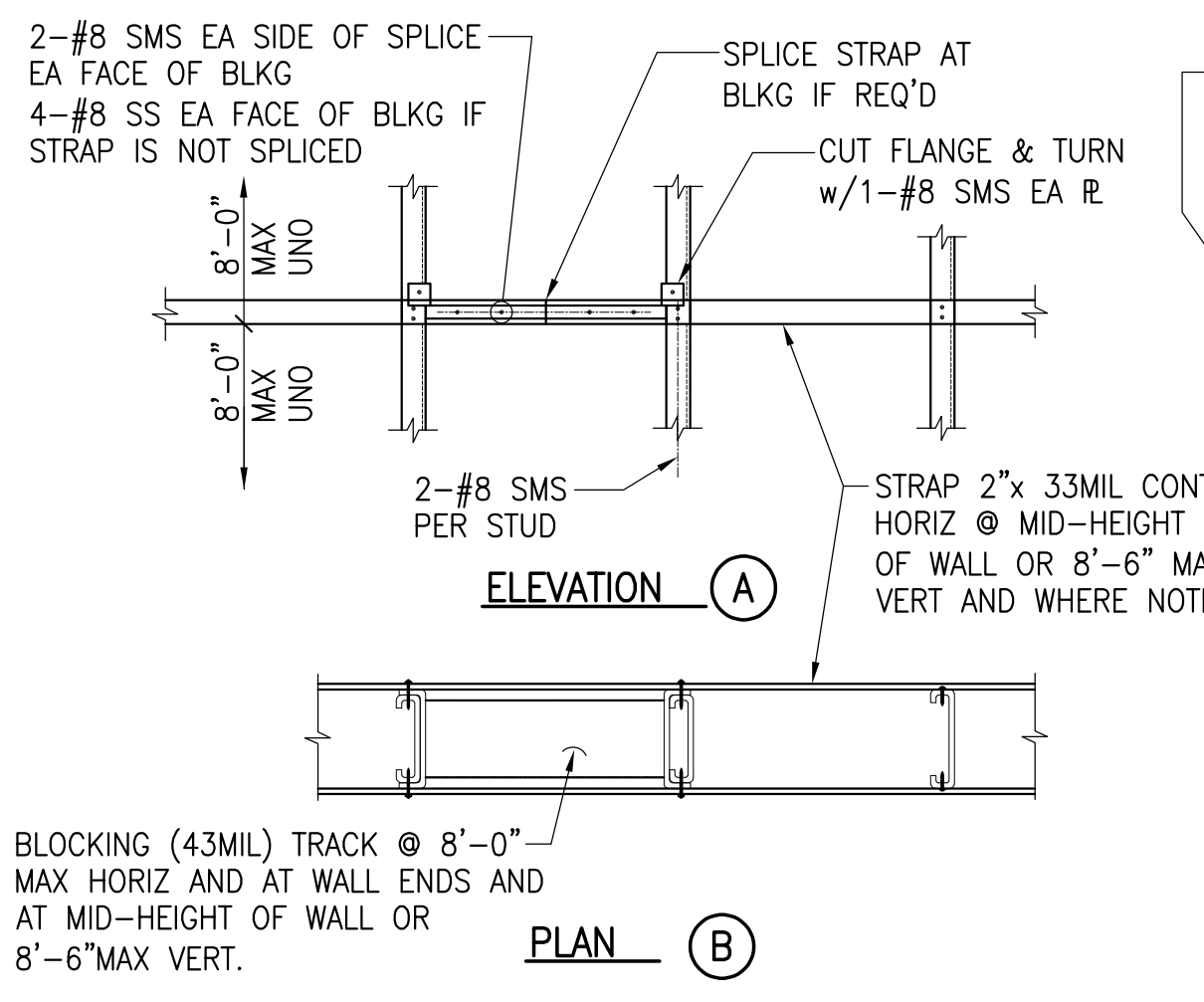
10 MAX PENETRATION THRU TRACKS (TOP OR BOTTOM)



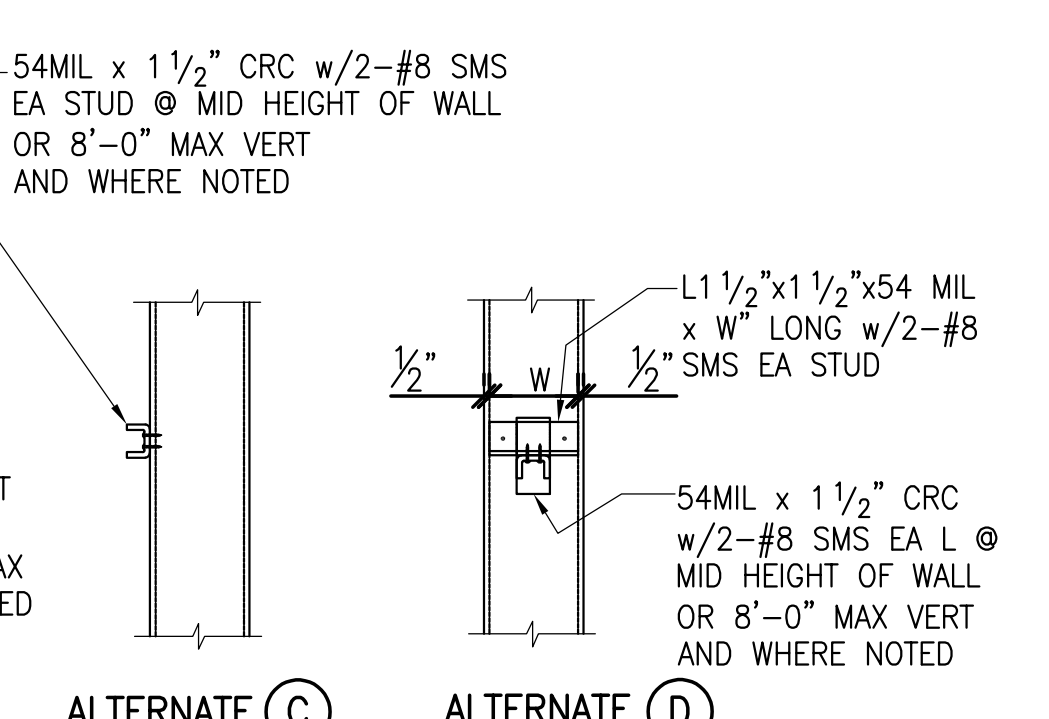
11 BRIDGING



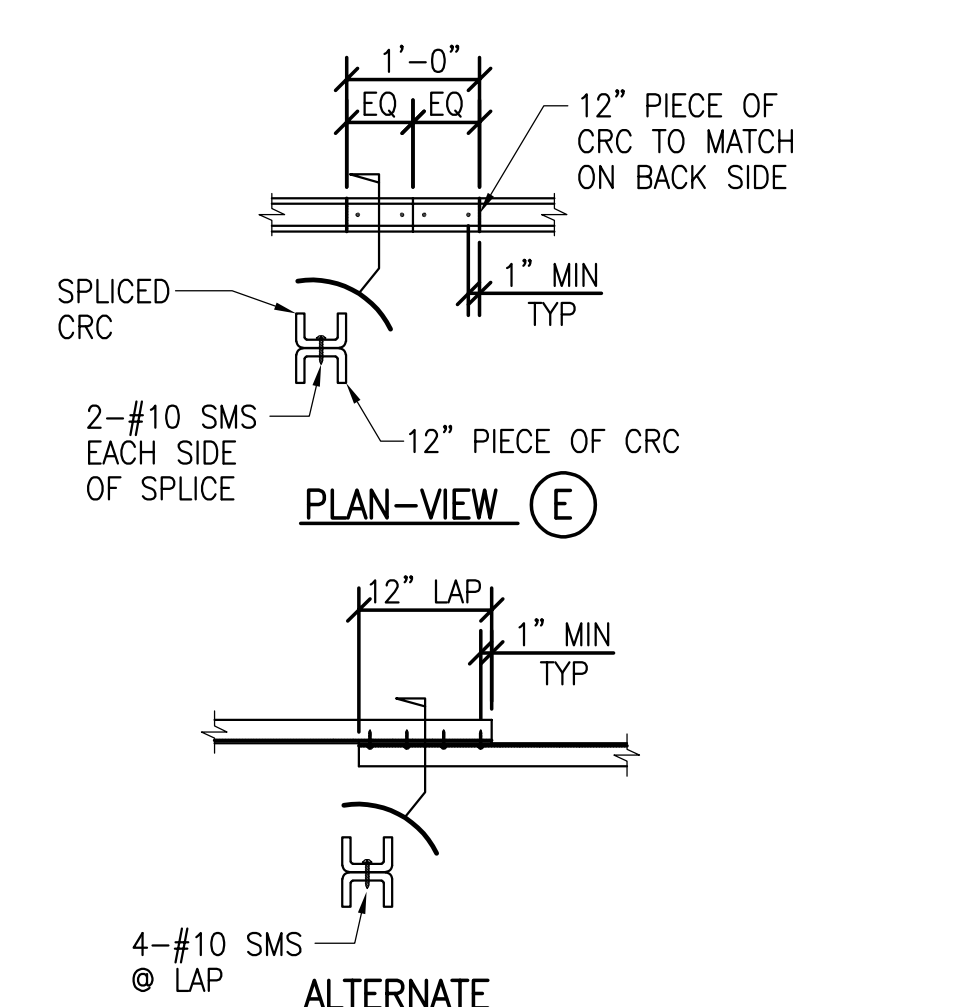
12 BRIDGING



13 BRIDGING

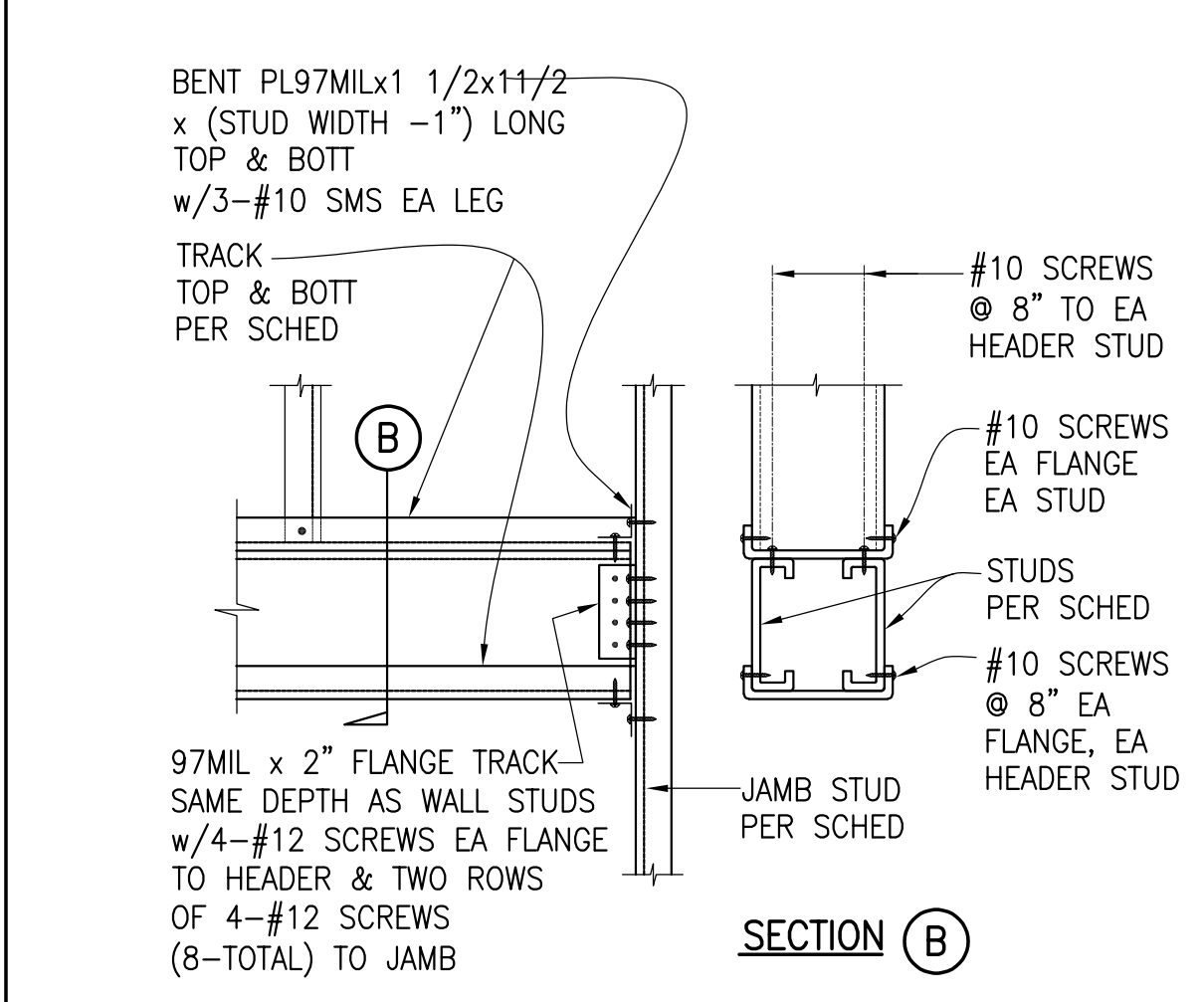


14 BRIDGING



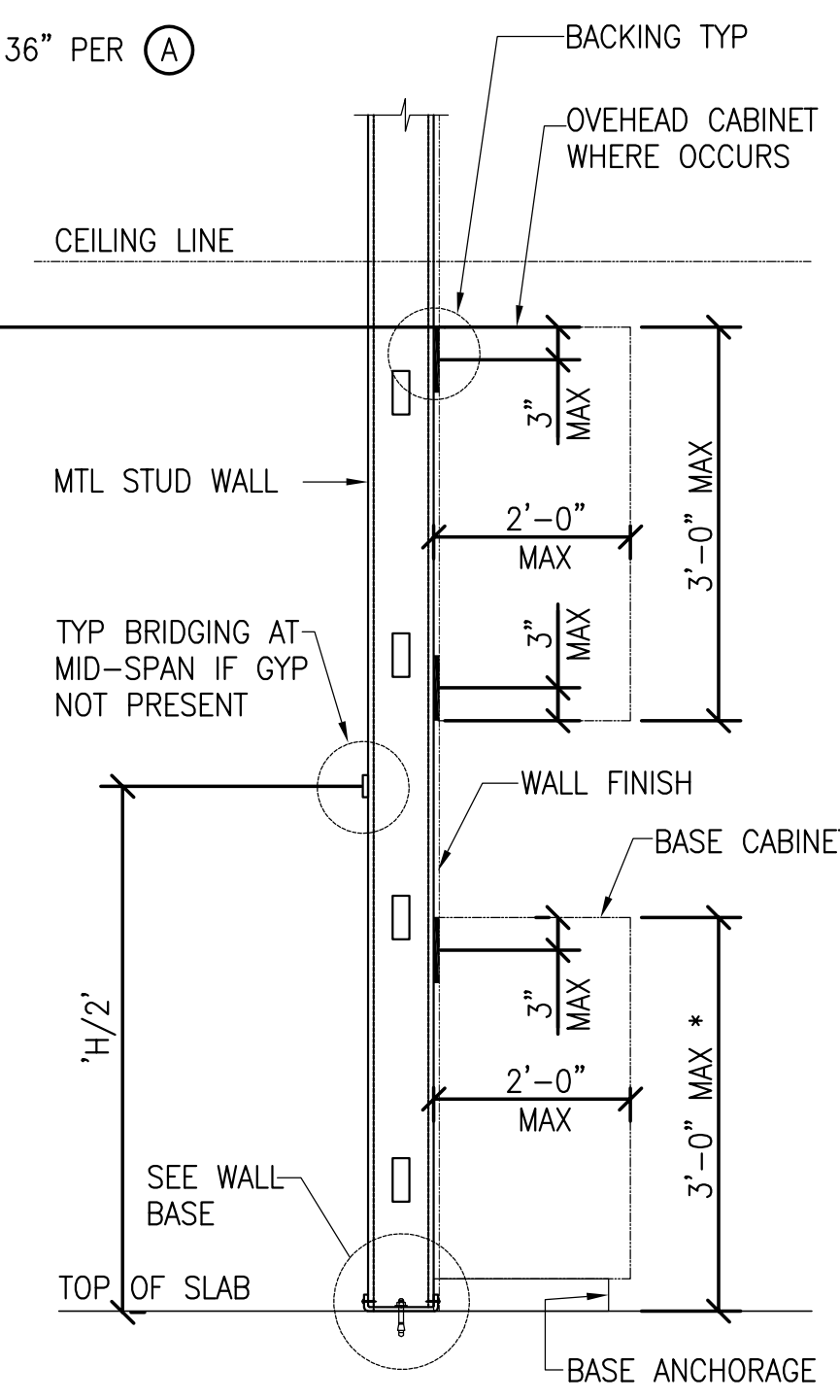
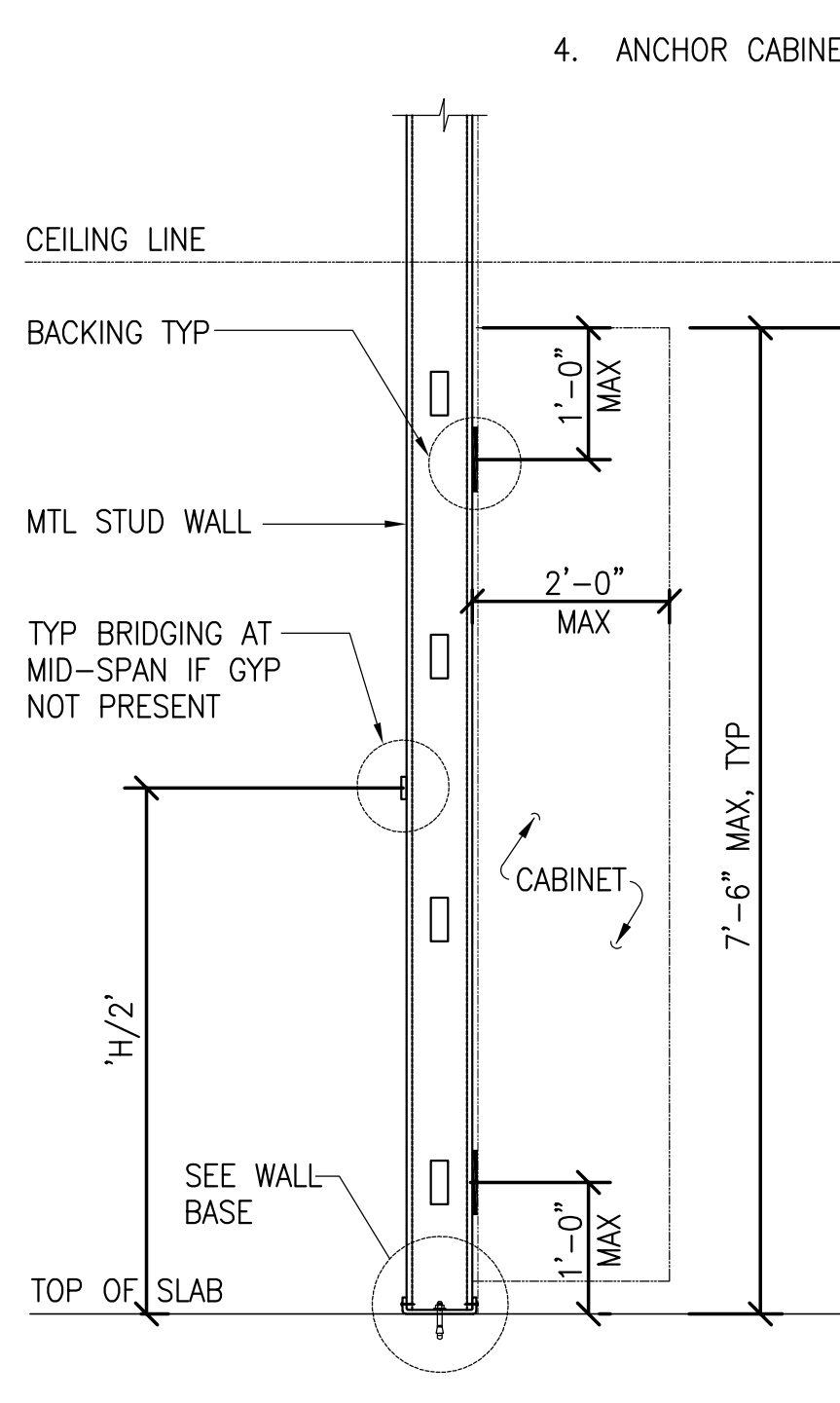
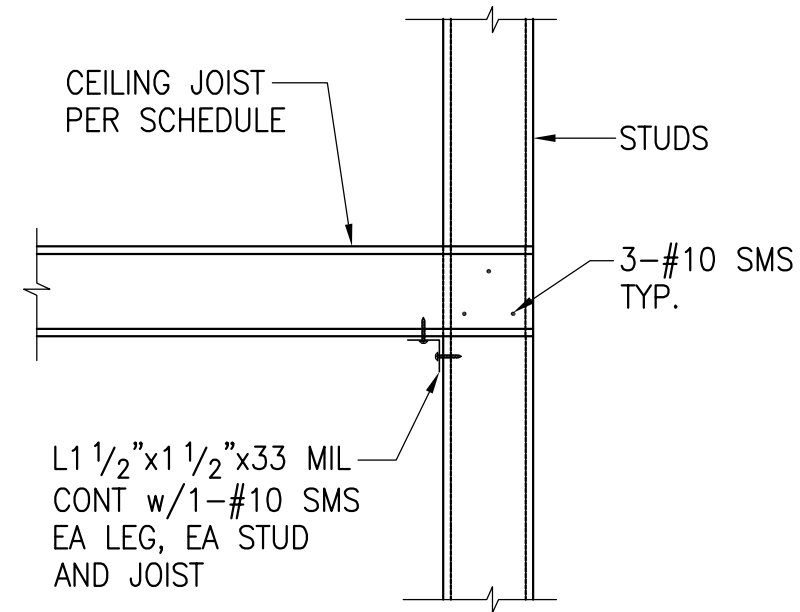
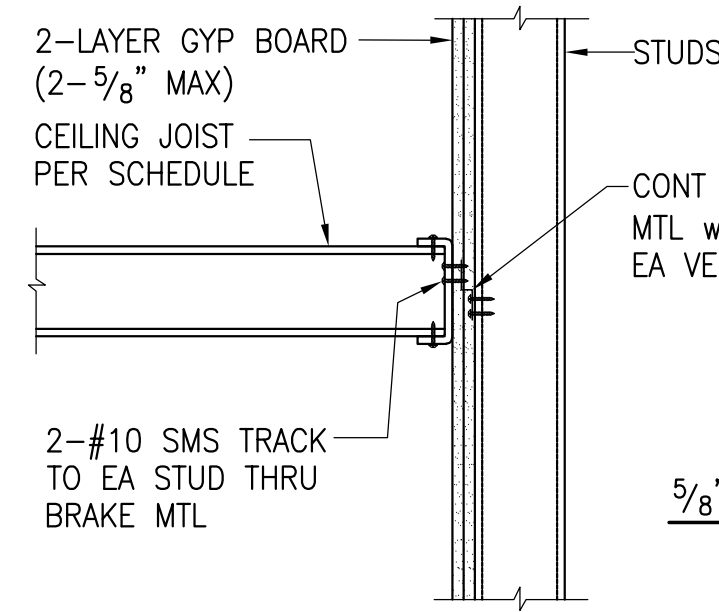
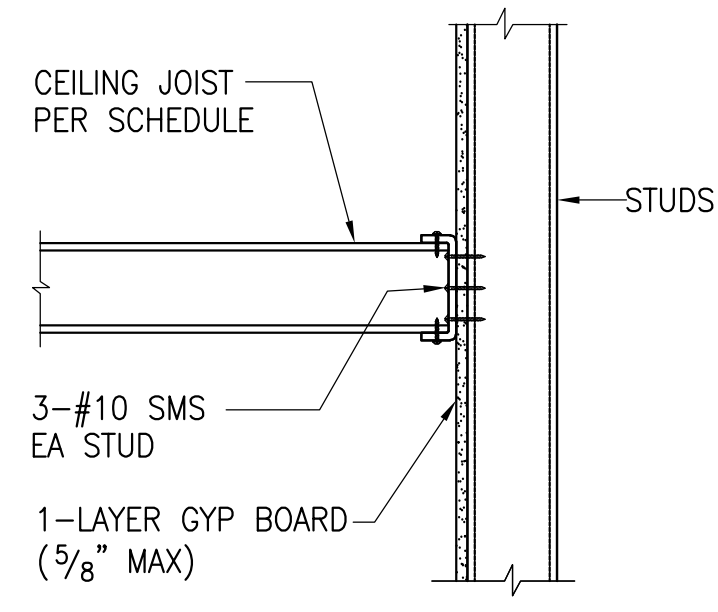
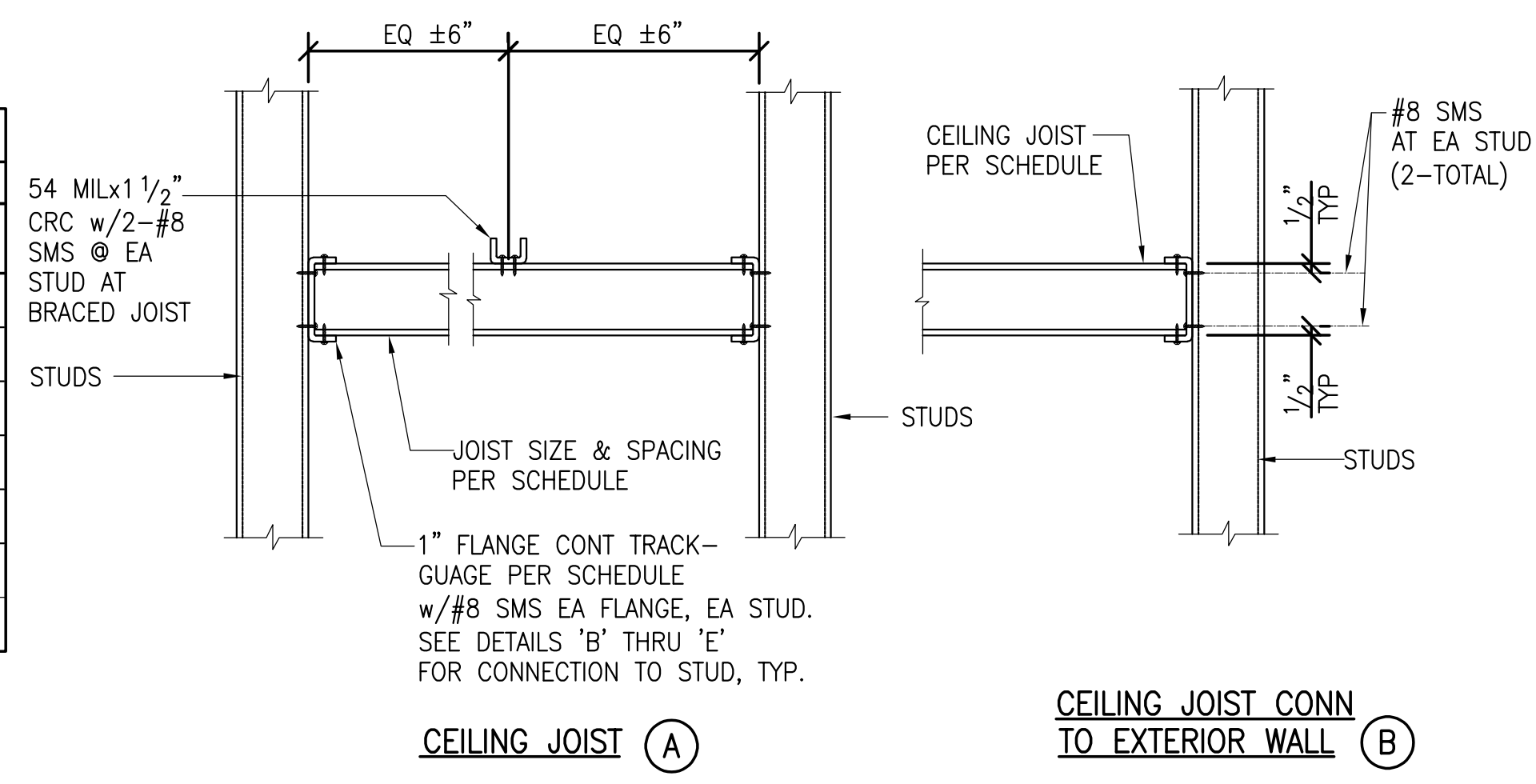
15 BRIDGING

9 HEADER



10 STUD PUNCHOUT/HOLES

CEILING JOIST SCHEDULE				
STUD JOIST SIZE & SPACING	UNBRACED JOIST		BRACED JOIST	
	MAX SPAN	TRACK THICKNESS	MAX SPAN	TRACK THICKNESS
400S162-33 @ 24"oc	8'-3"	54 MIL	10'-0"	54 MIL
400S162-43 @ 24"oc	8'-9"	54 MIL	11'-6"	68 MIL
400S162-33 @ 16"oc	9'-0"	43 MIL	11'-9"	54 MIL
400S162-54 @ 24"oc	9'-6"	54 MIL	12'-3"	68 MIL
400S162-43 @ 16"oc	10'-0"	54 MIL	13'-3"	54 MIL
400S162-54 @ 16"oc	10'-9"	54 MIL	14'-0"	54 MIL



CEILING JOIST CONN TO WALL THRU 1-LAYER OF GYP (C)

CEILING JOIST CONN TO WALL THRU 2-LAYER OF GYP (D)

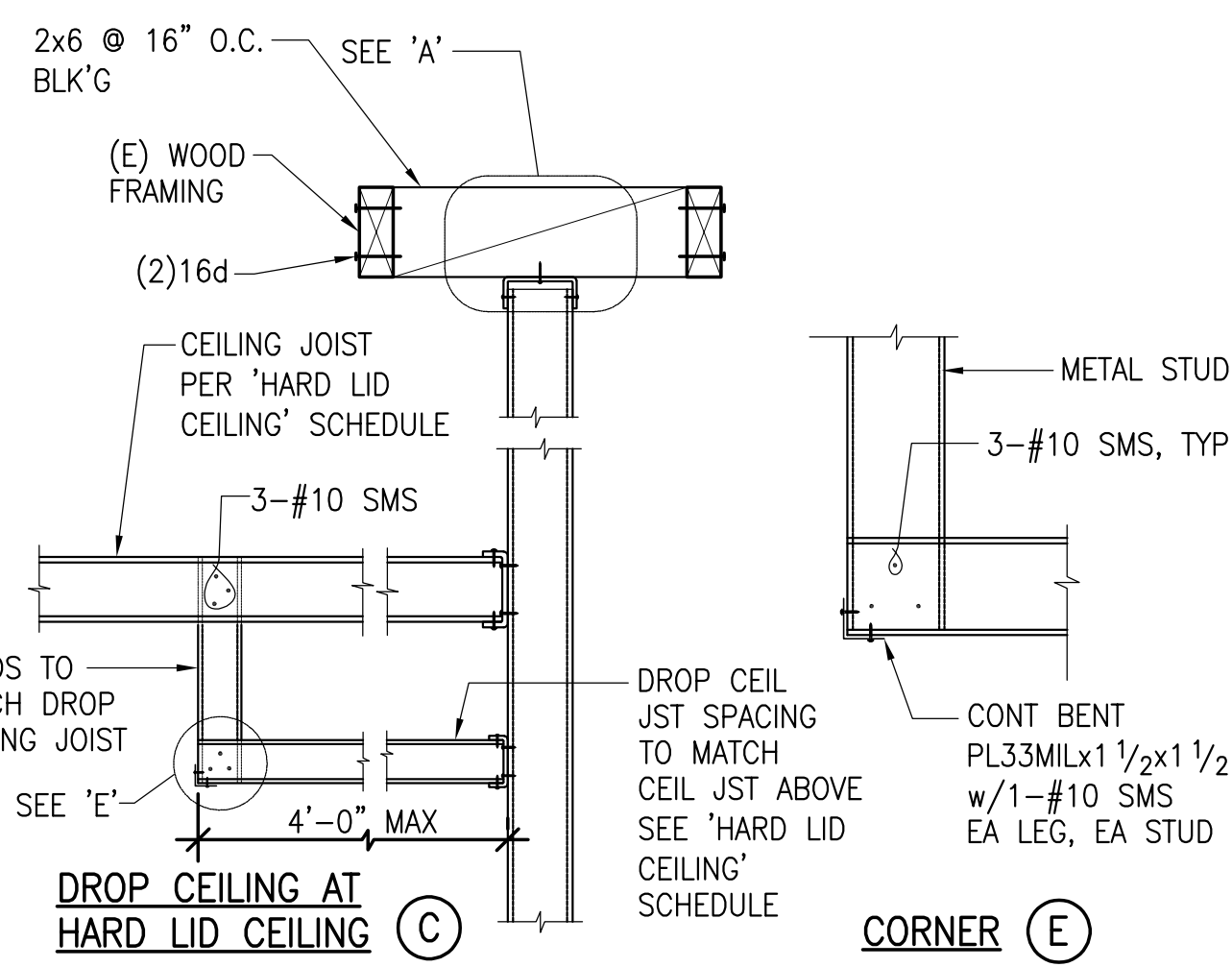
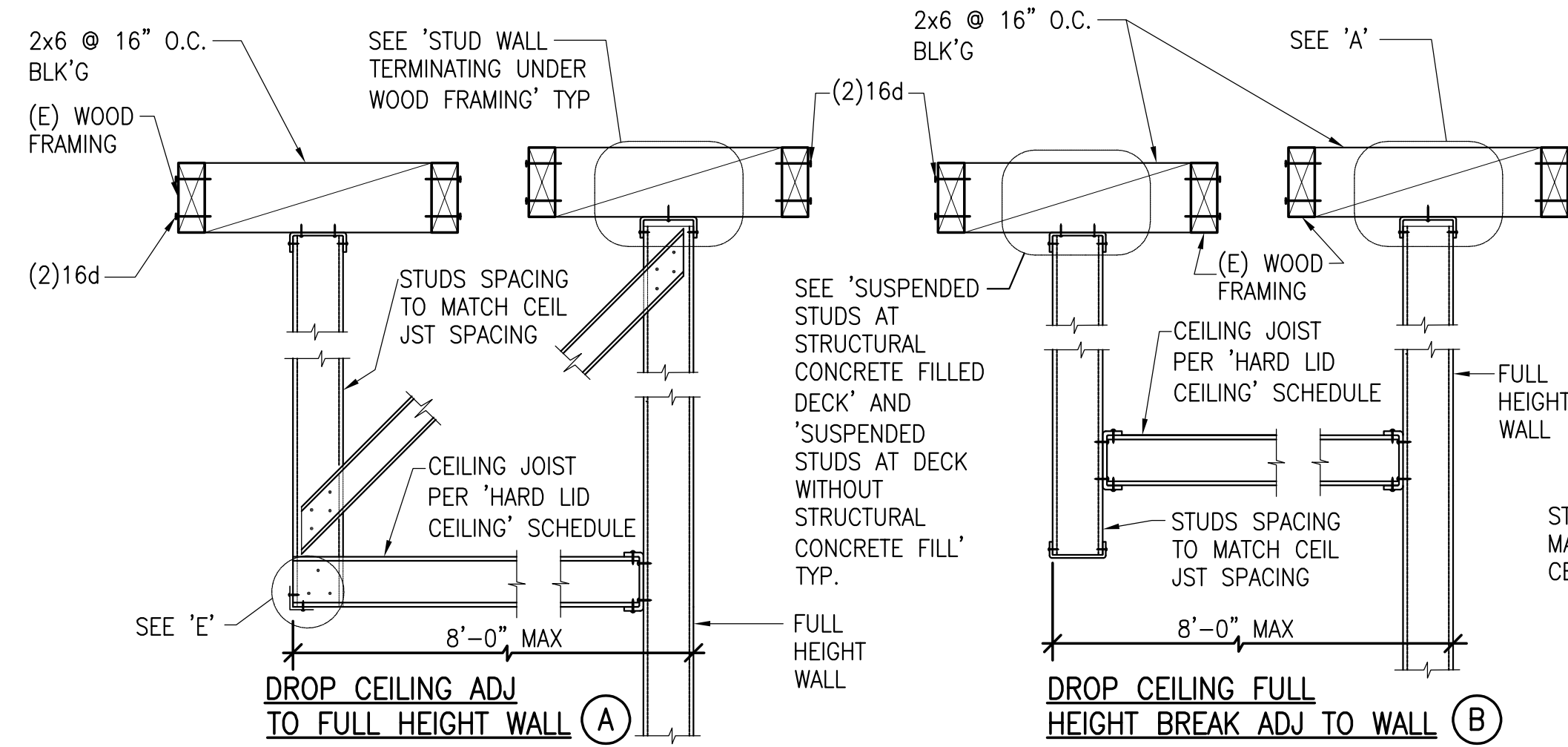
CEILING JOIST LAP CONNECTION (E)

FULL HEIGHT CABINETS (A)

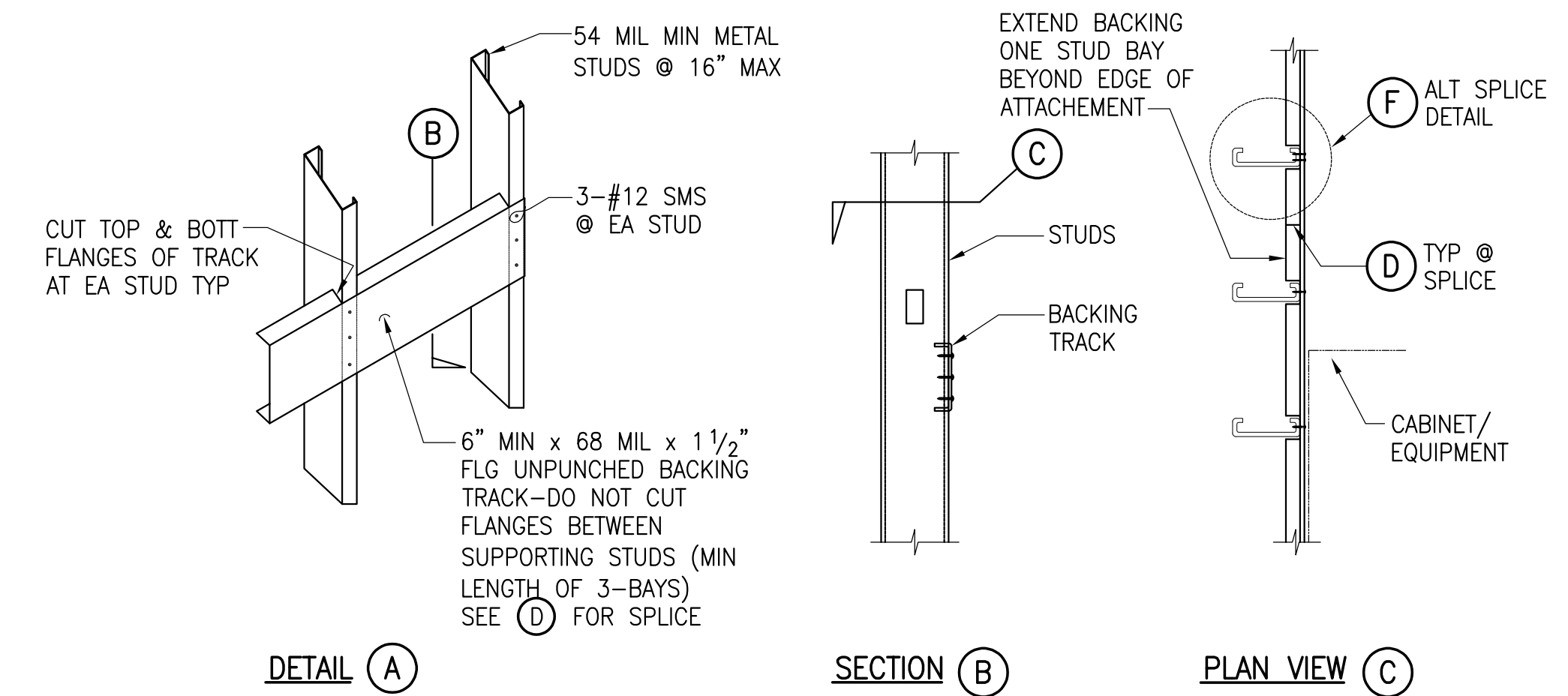
OVERHEAD AND/OR BASE CABINETS (B)

HARD LID CEILING

CABINET ANCHORAGE TO STUD WALLS



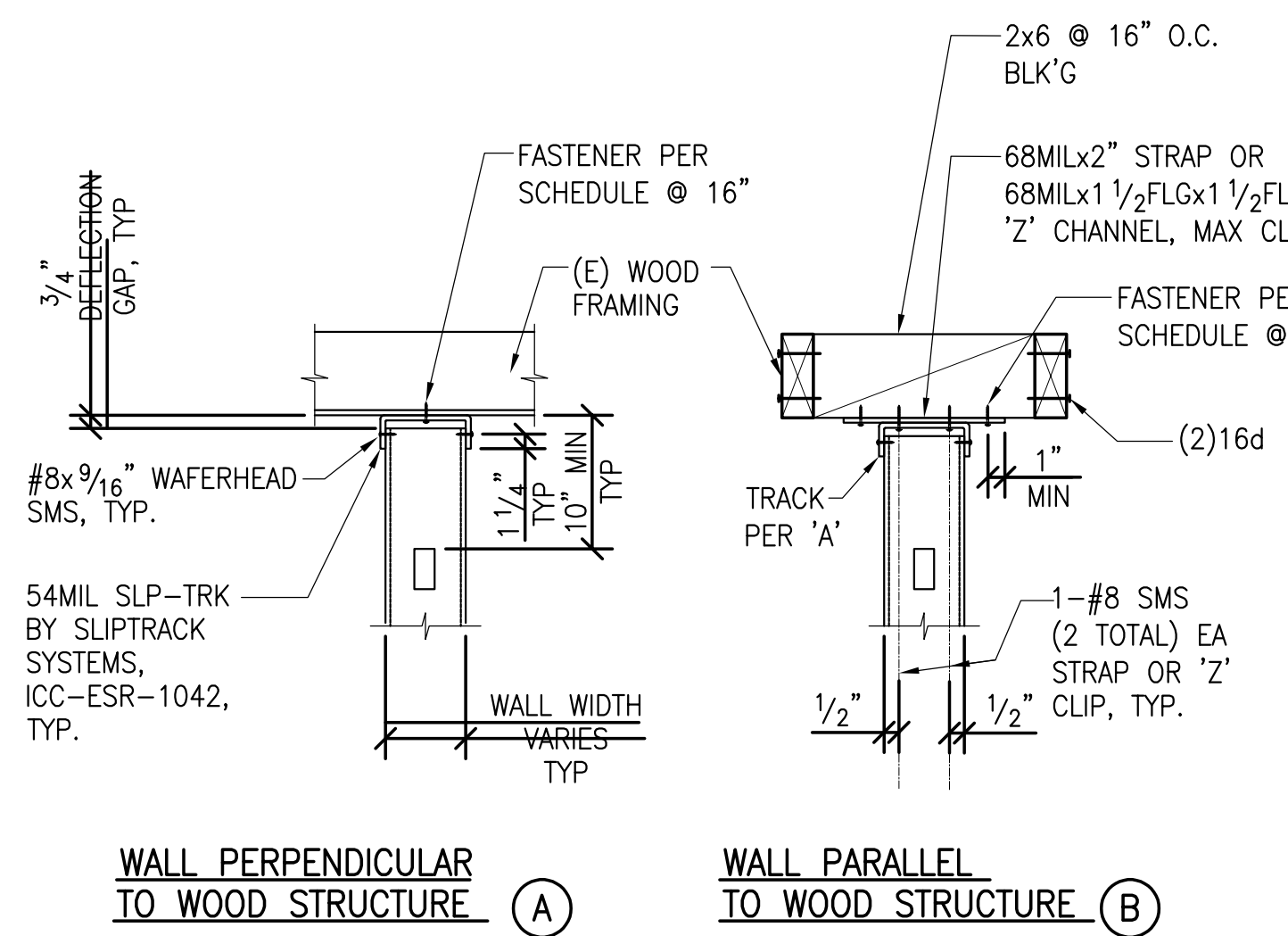
NOTE: FOR CEILING JOIST TO WALL CONNECTION, SEE 'HARD LID CEILING' DETAILS



DROP CEILING AND SOFFIT

SLIP CONNECTION AT JAMBS FOR OPENING GREATER THAN 8'-8"

TYPICAL BACKING DETAIL

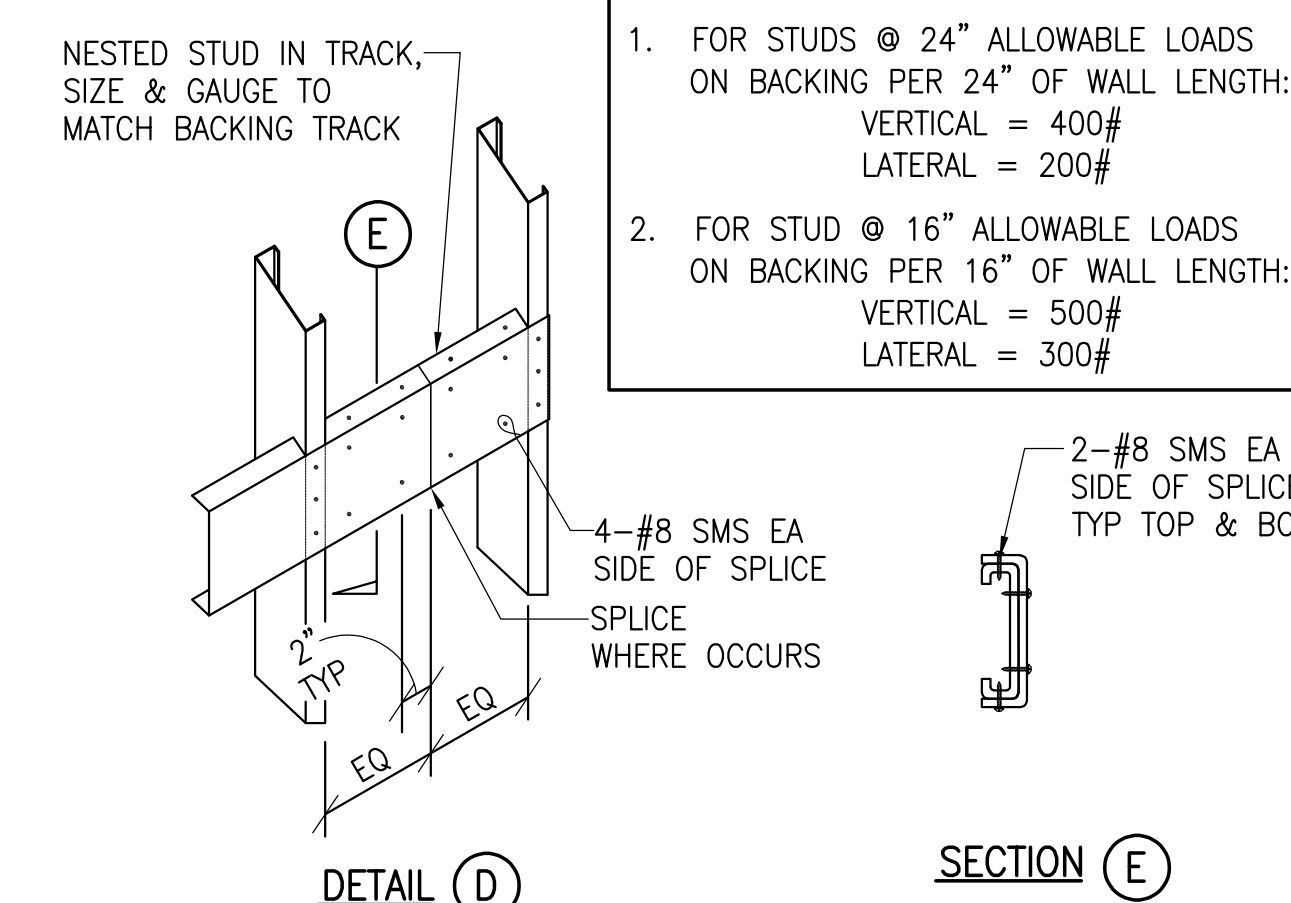
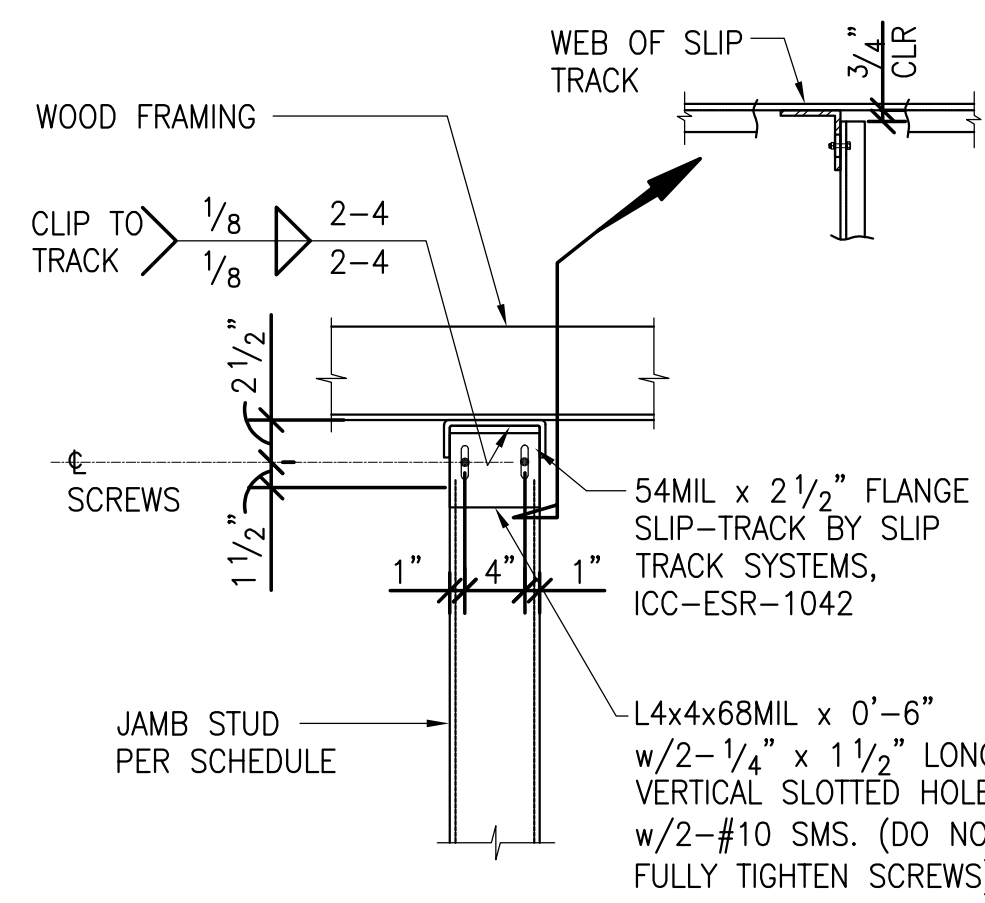


FASTENER SCHEDULE	
BOTTOM OF ROOF FRAMING MEMBERS	#8 SCREWS

NON BEARING STUD WALL TERMINATING UNDER DECK AND BEAM

SLIP CONNECTION AT JAMBS FOR OPENING GREATER THAN 8'-8"

TYPICAL BACKING DETAIL



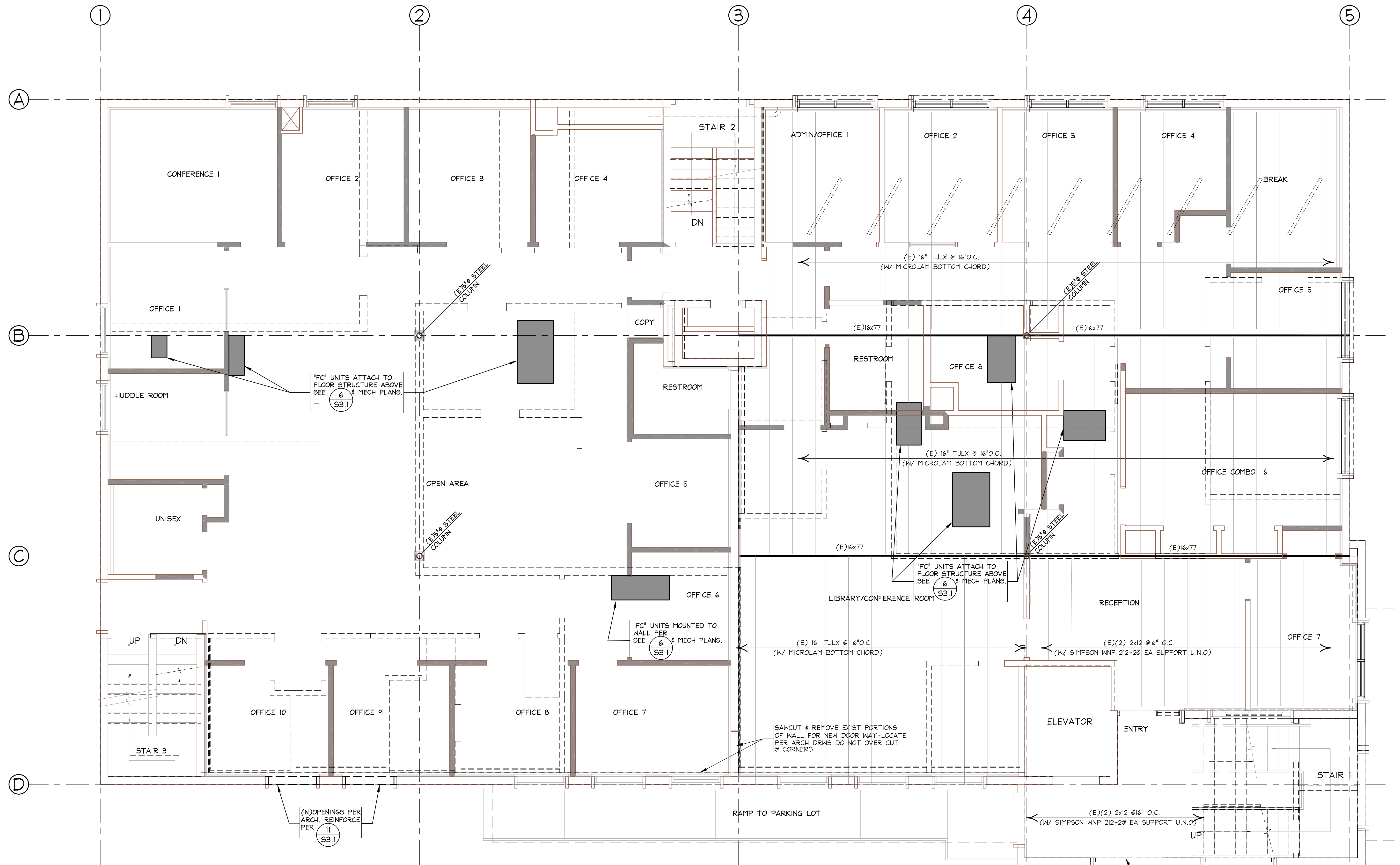
NOTES:
1. FOR STUDS @ 24" ALLOWABLE LOADS ON BACKING PER 24" OF WALL LENGTH:
VERTICAL = 400#
LATERAL = 200#
2. FOR STUD @ 16" ALLOWABLE LOADS ON BACKING PER 16" OF WALL LENGTH:
VERTICAL = 500#
LATERAL = 300#

NOTE:
1. FOR ALTERNATE SPLICE SEE DETAIL (F)

NON BEARING STUD WALL TERMINATING UNDER DECK AND BEAM

SLIP CONNECTION AT JAMBS FOR OPENING GREATER THAN 8'-8"

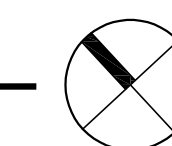
TYPICAL BACKING DETAIL

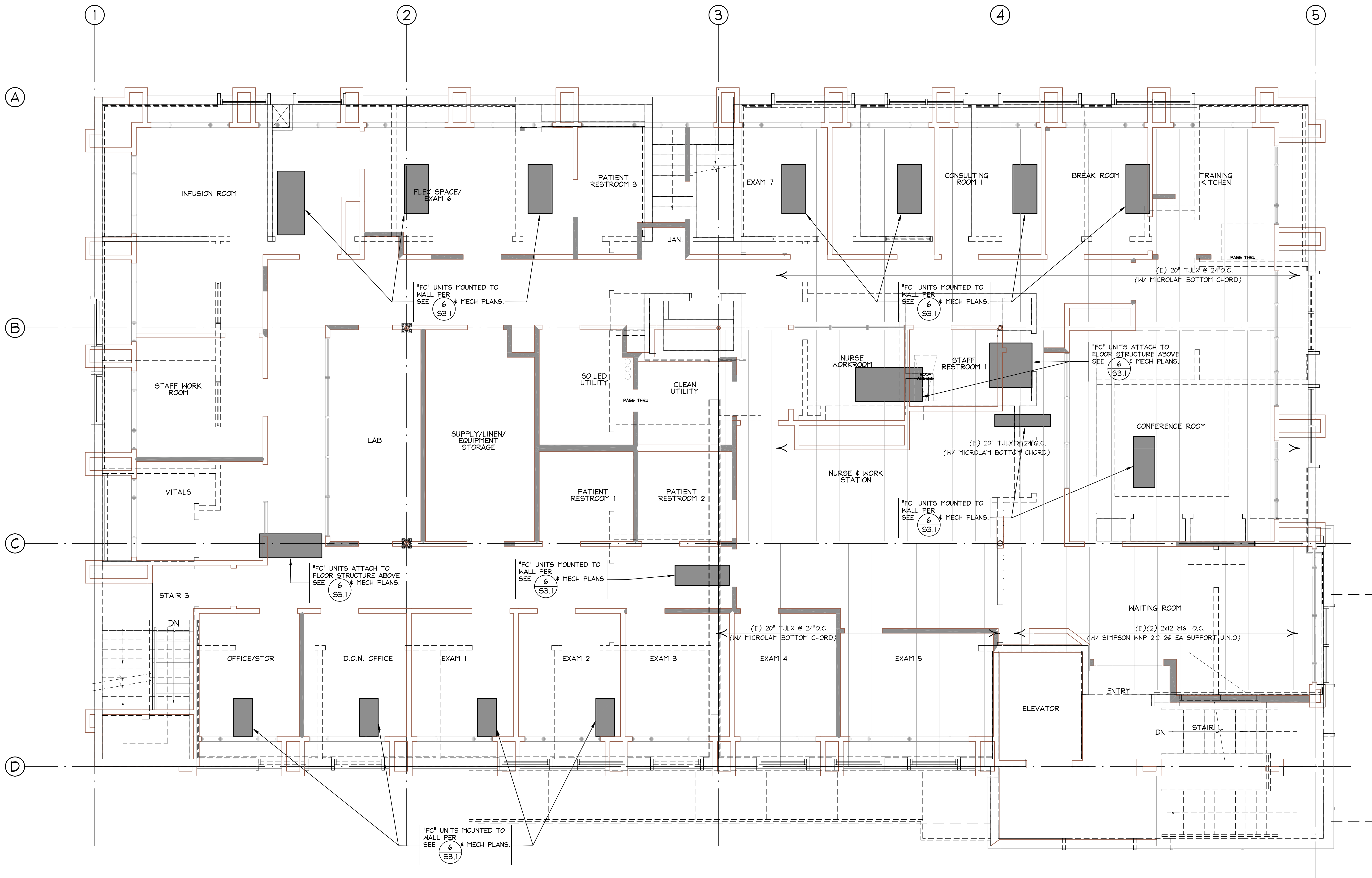
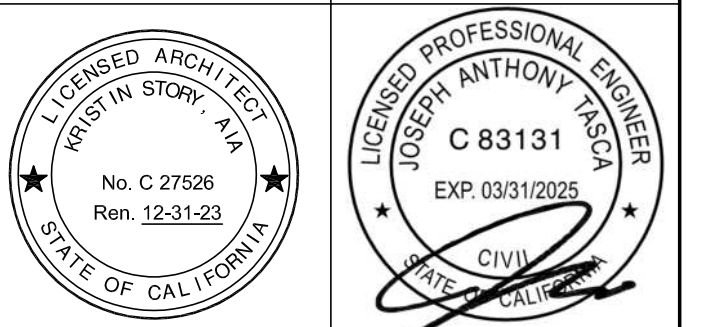


FIRST FLOOR FRAMING PLAN

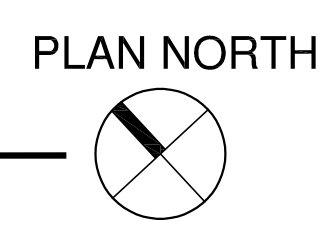
SCALE: 1/4" = 1'-0"

PLAN NORTH

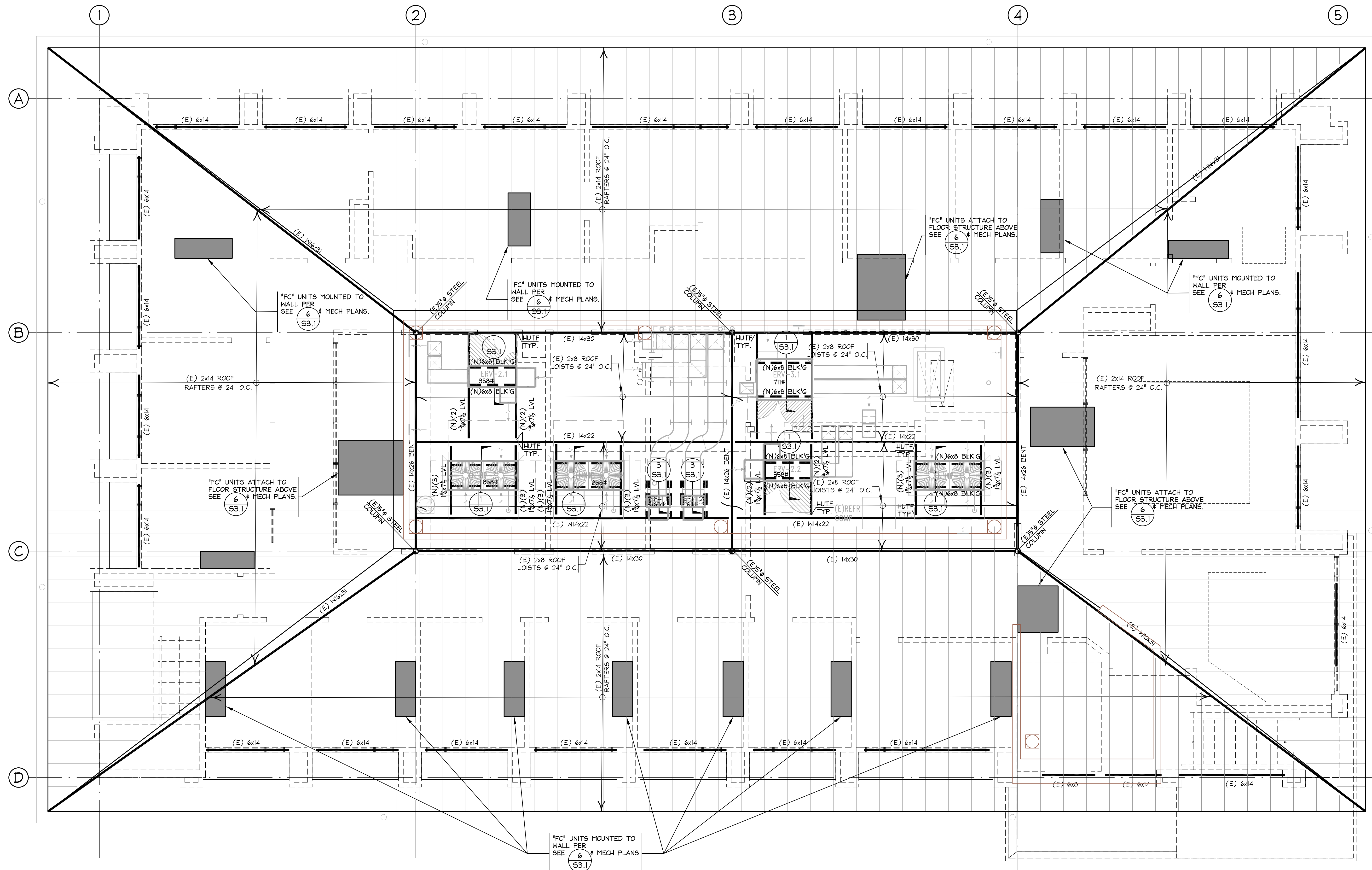




SECOND FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"



Drawing name: C:\Users\kmd\OneDrive - References\Private\lms\Study\for\kmd\2024\04\22\23-071\markup\4-22-24\23-071_S201 - Structural\S-1-23-071.rvt
 PLOT DATE: Apr 22, 2024 - 2:54pm
 PLOT BY: kmd

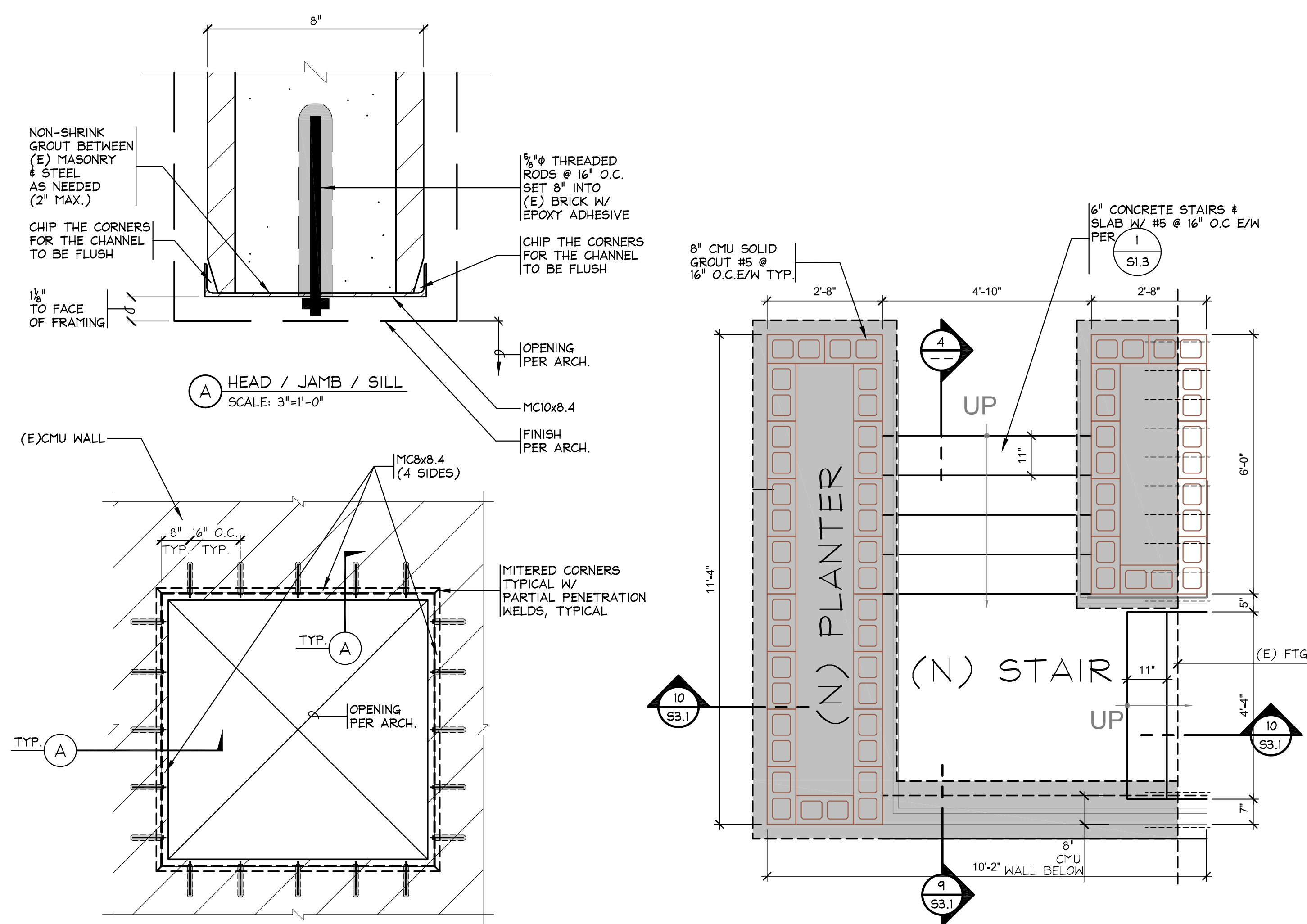


ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

PLAN NORTH

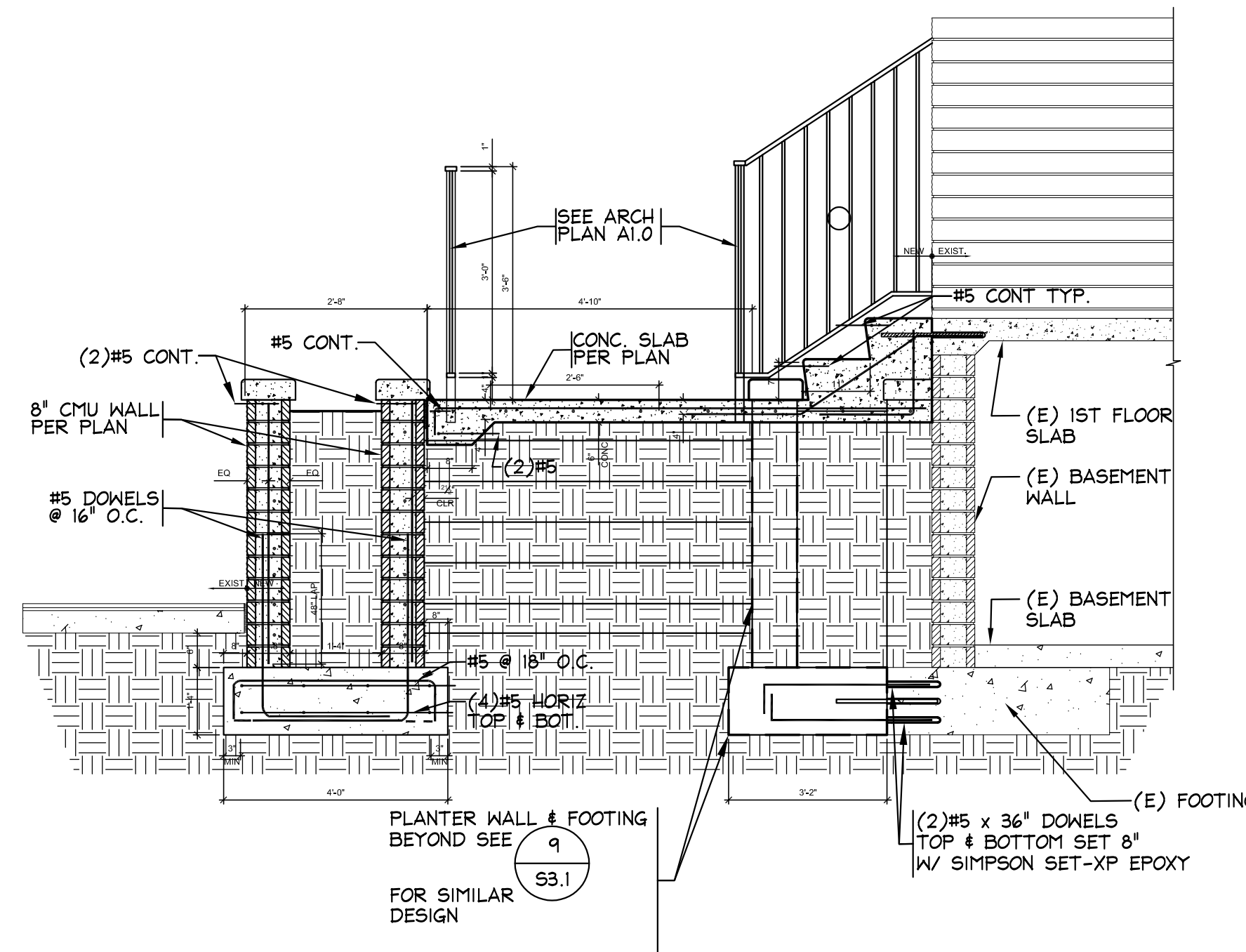


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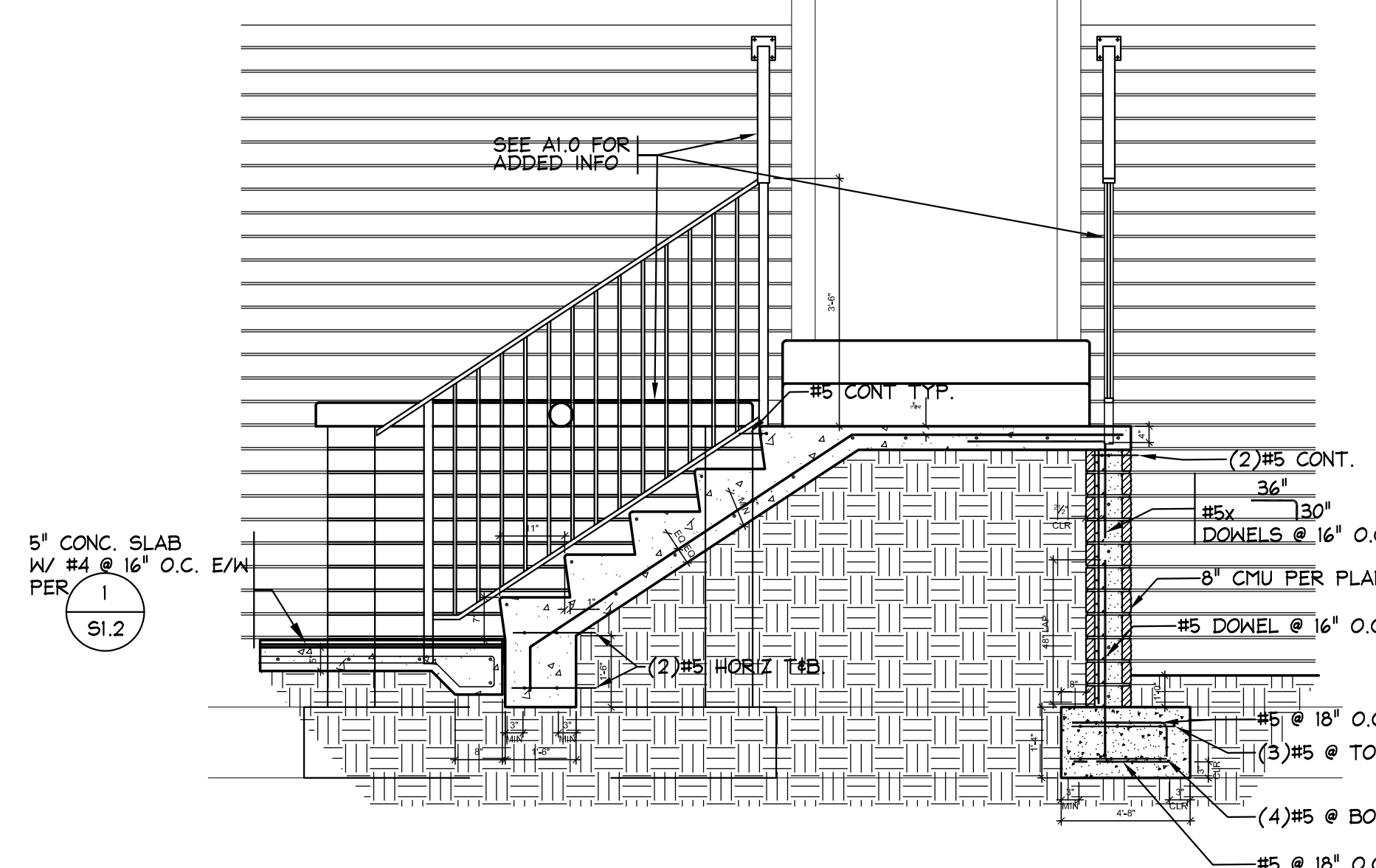


(NEW) OPENING IN (E) REINFORCED BLOCK WALL
SCALE: 1/2" = 1'-0"

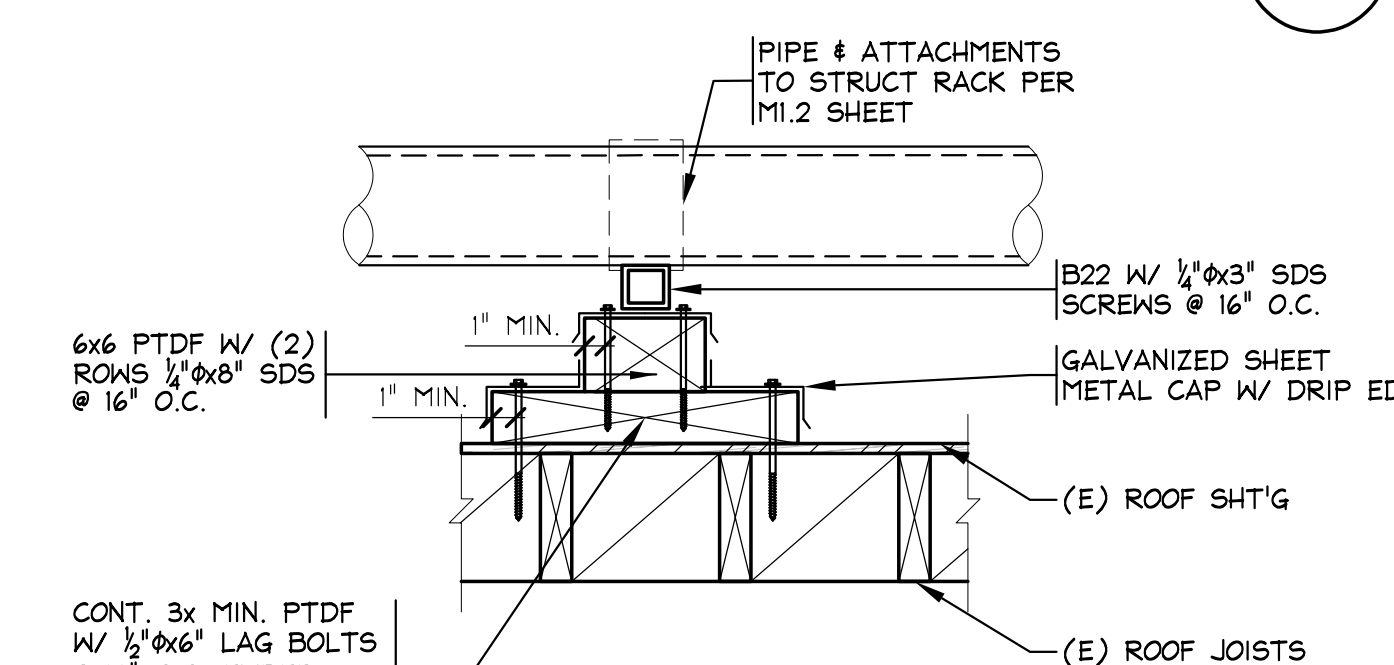
STAIR FOUNDATION PLAN
SCALE: 1/2" = 1'-0"



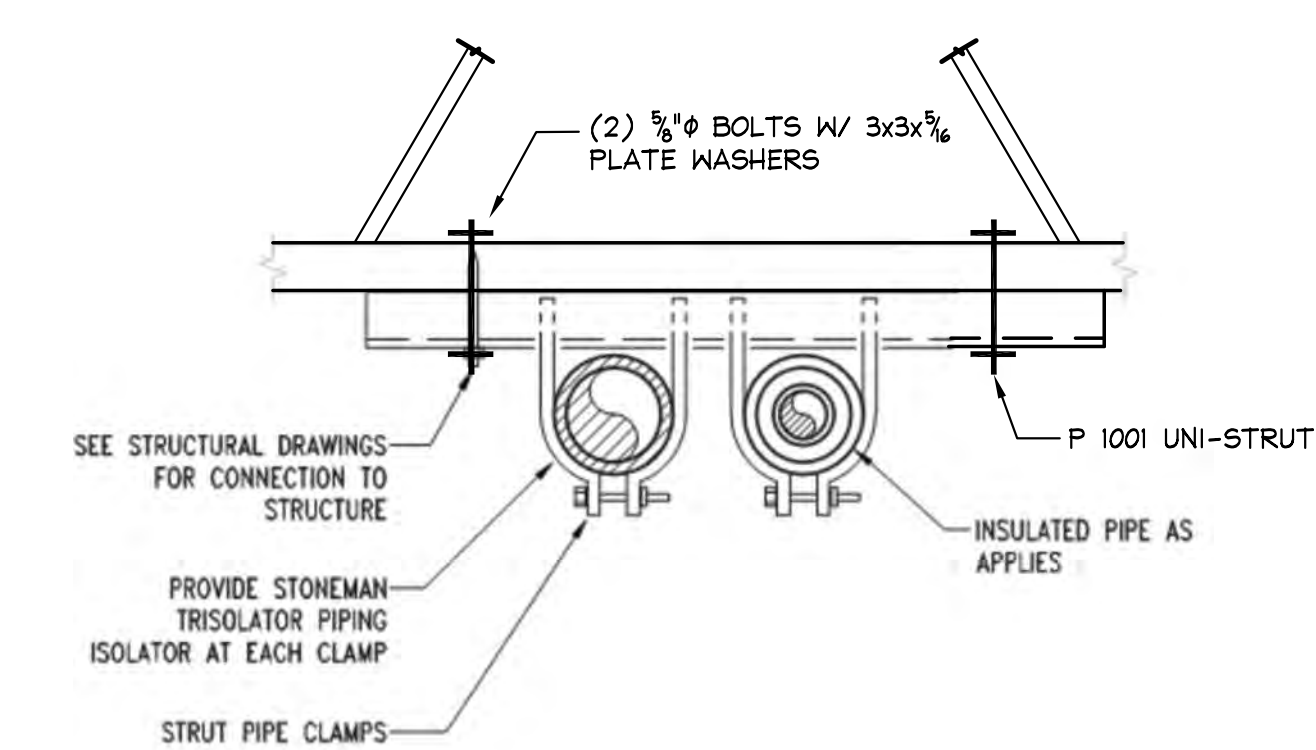
SECTION-STAIRS TO PLANTER
SCALE: 1/2" = 1'-0"



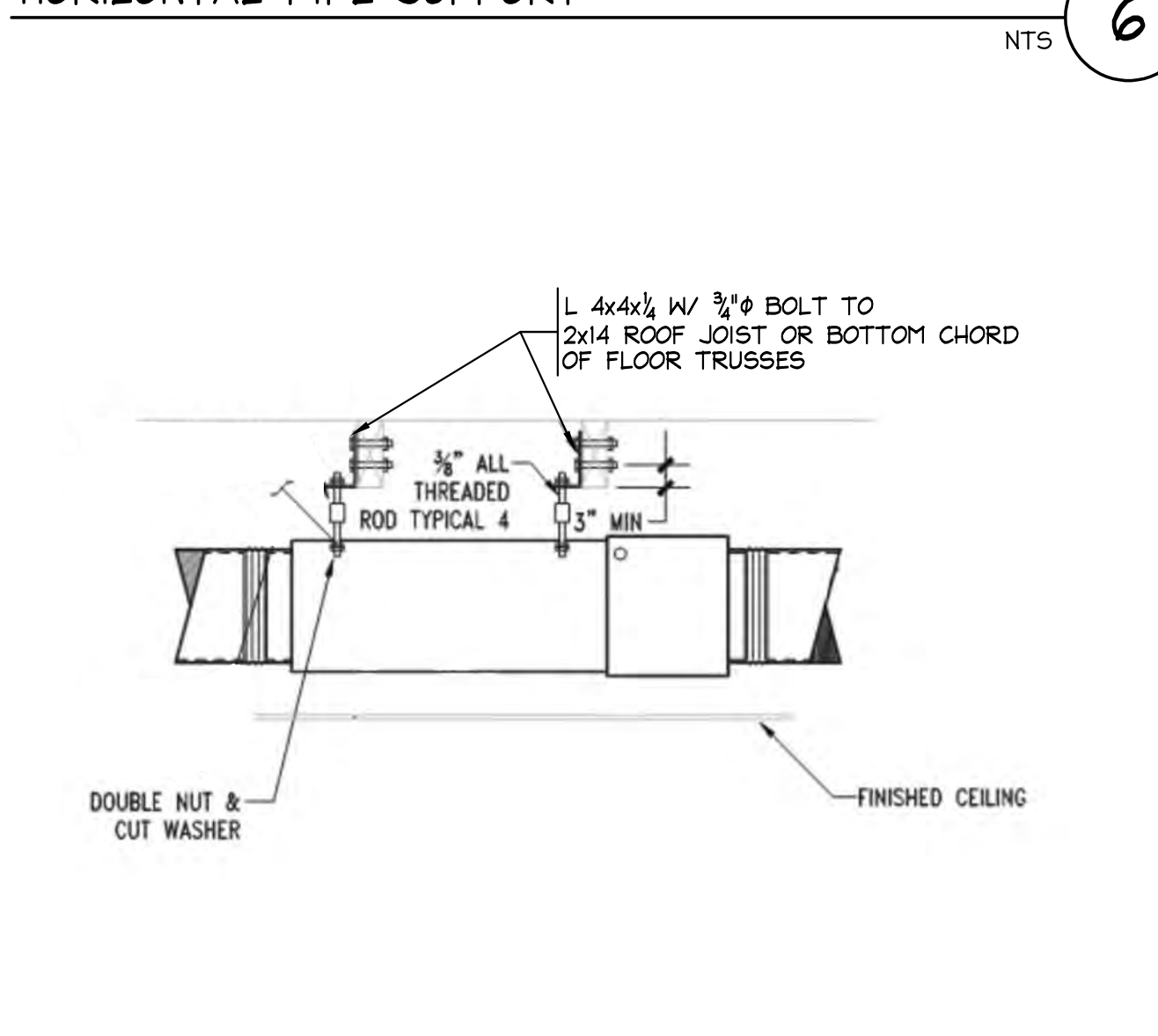
SECTION AT STAIRS
SCALE: 1/2" = 1'-0"



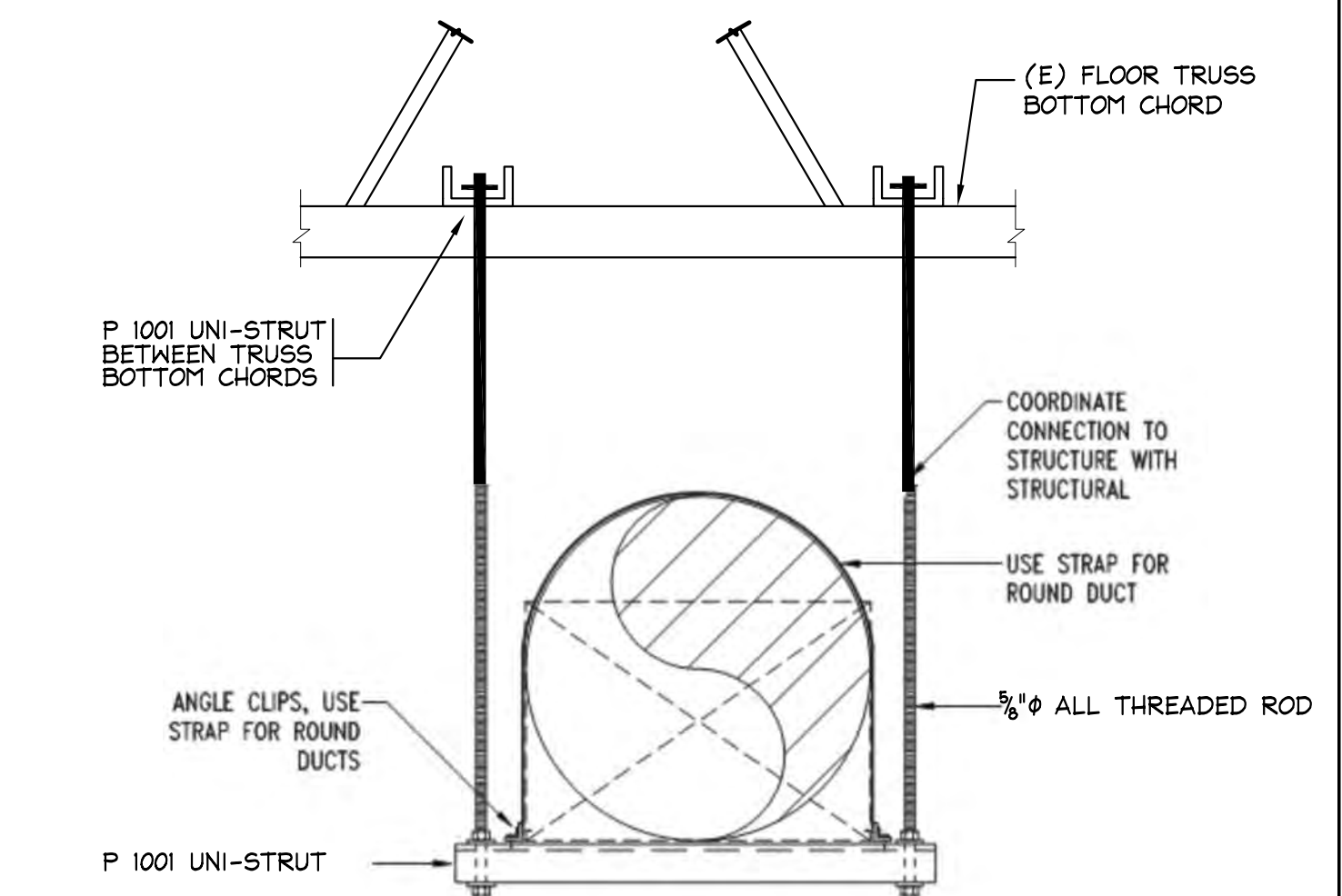
TYPICAL PIPING SUPPORTS
N.T.S.



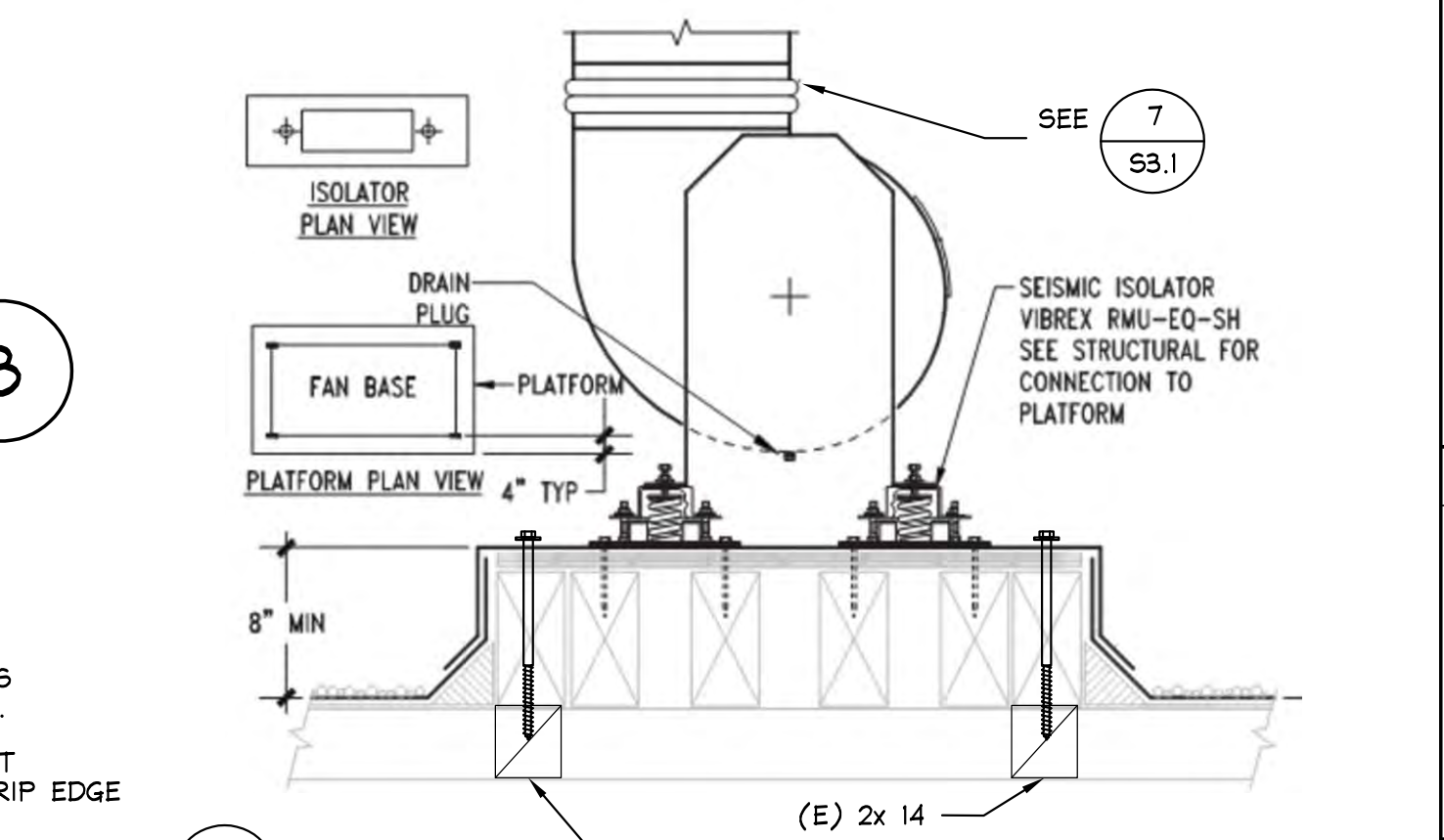
HORIZONTAL PIPE SUPPORT
N.T.S.



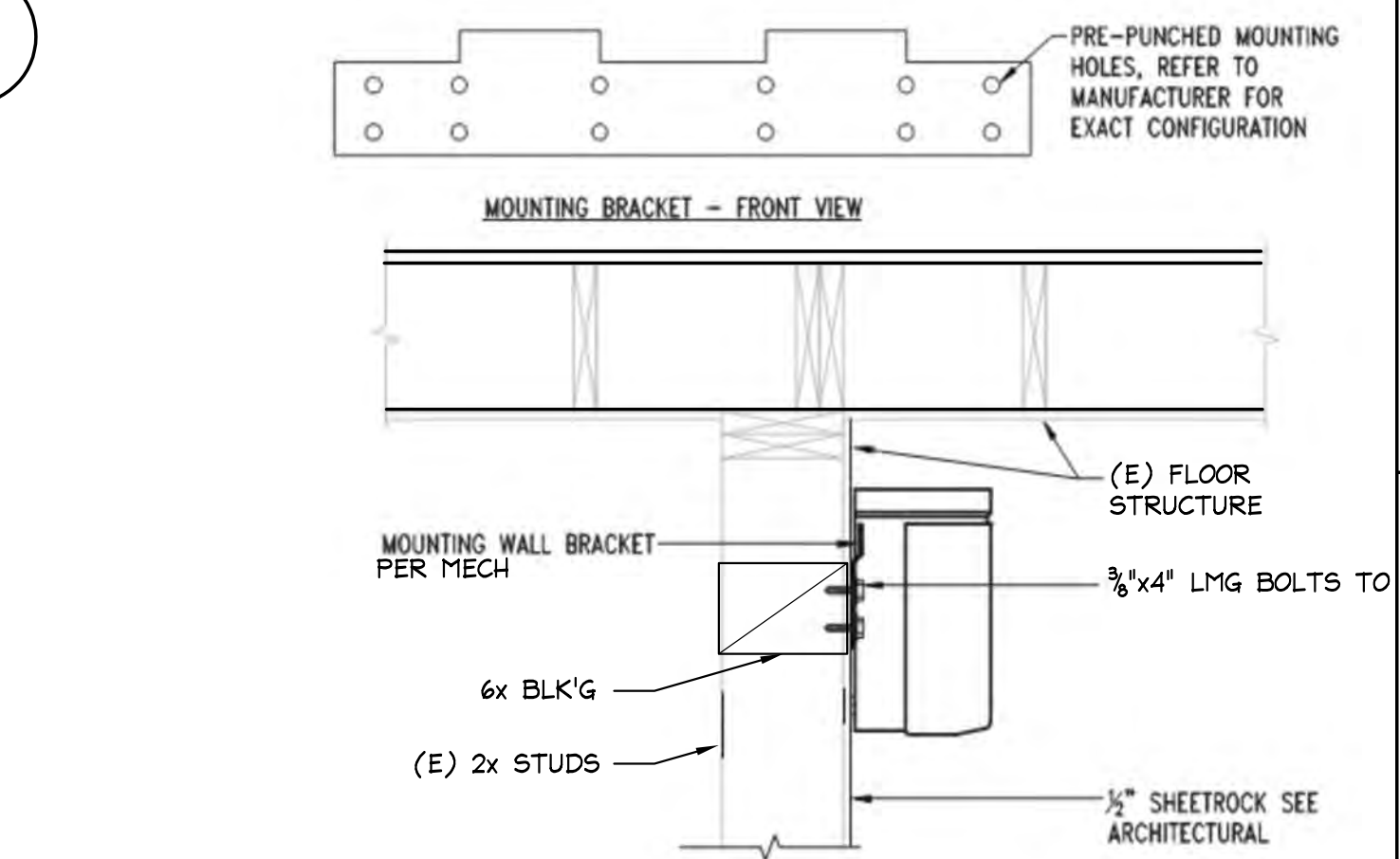
WALL MOUNTED DUCTILESS FAN COIL ATTACHMENT
N.T.S.



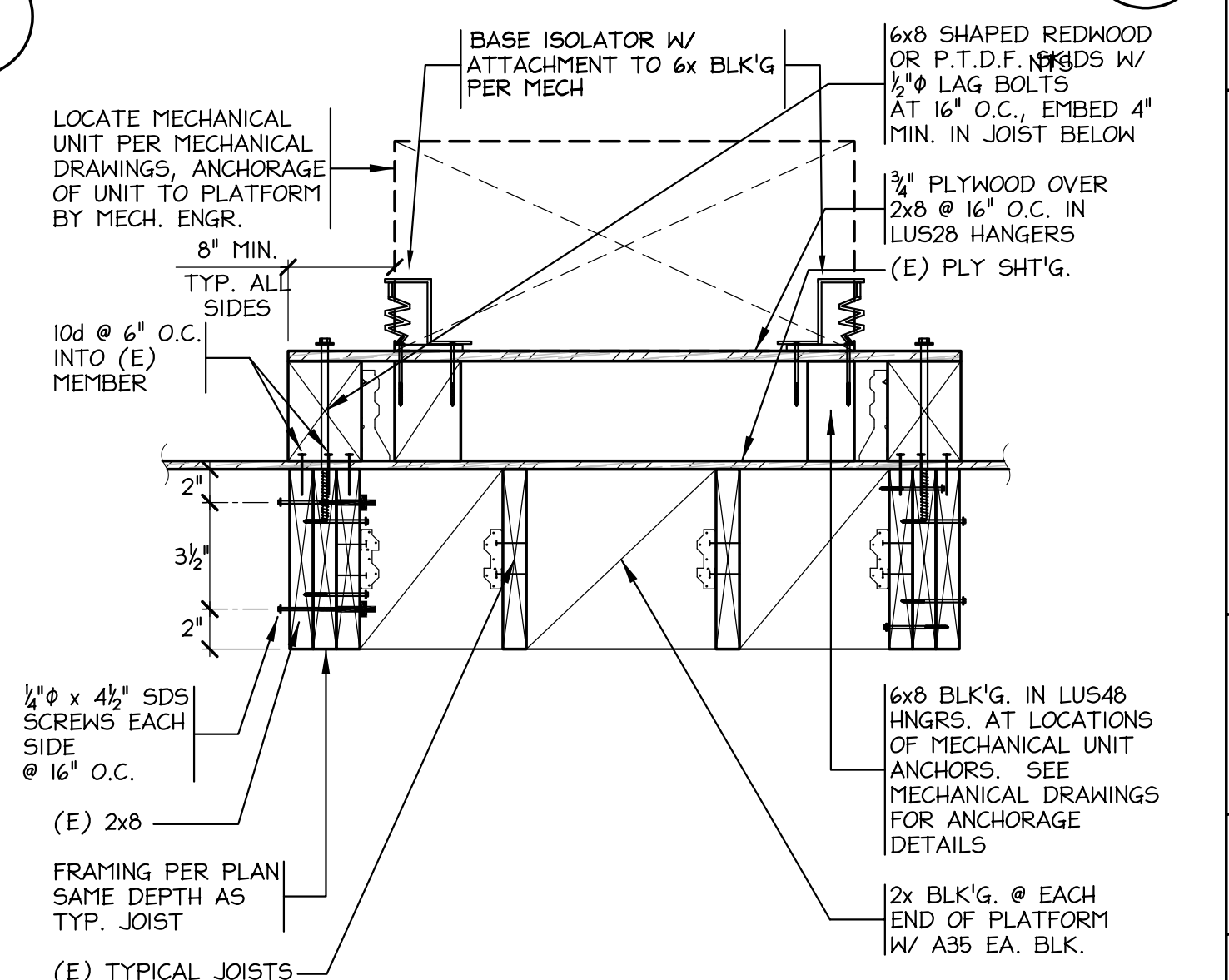
DUCT TRAPEZE HANGER SUPPORT
N.T.S.



UTILITY FAN-SUPPORT
N.T.S.



WALL MOUNTED DUCTILESS FAN COIL ATTACHMENT
N.T.S.










































































MECHANICAL UNIT PLATFORM
SCALE: N.T.S.

Drawing name: E:\SAN\Sansum\SAN201_SanDiabetes\SAN201-Dwg\SAN201-M-1.dwg
PLOT DATE: Apr 22, 2024, 9:53am
PLOT BY: Tom


CODE COMPLIANCE
ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, INCLUDING, BUT NOT LIMITED TO: 2022 CA MECHANICAL CODE (CMC) 2022 CA PLUMBING CODE (CPC) 2022 CA ELECTRICAL CODE (CEC) 2022 CA BUILDING CODE (CBC) 2022 CA GREEN CODE (CGBC) 2022 TITLE 24 ENERGY EFFICIENCY STANDARDS (CenC)
TITLE 24 CERTIFICATES
THE INSTALLING CONTRACTOR SHALL COORDINATE AND PROVIDE ALL REQUIRED TITLE 24 ACCEPTANCE TEST CERTIFICATES BY A CERTIFIED ACCEPTANCE TEST TECHNICIAN, AND HERS RATINGS AS REQUIRED IN THE TITLE 24 COMPLIANCE DOCUMENTS. THESE INCLUDE ALL NRCA, NRCI AND NRCV FORMS LISTED ON THE NRCC DOCUMENTS: NRCA-MCH-02-A, NRCA-MCH-05-A, NRCA-MCH-06-A, NRCA-MCH-07-A, NRCA-MCH-08-A, NRCA-MCH-09-A, NRCA-MCH-10-A, NRCA-MCH-11-A, NRCA-MCH-12-A.
COORDINATION
COORDINATION WITH OTHER TRADES SHALL BE A PART OF THIS PROJECT AND SHALL BE INCLUDED IN THE CONTRACTOR'S COST. COORDINATE ROUTING AND ELEVATIONS OF ALL DUCTWORK AND EQUIPMENT BEFORE FABRICATION AND INSTALLATION. REPORT TO THE ARCHITECT ANY CONFLICTS THAT CAN NOT BE RESOLVED IN FIELD PRIOR TO FABRICATION AND INSTALLATION. NO ADDITIONAL CHARGES WILL BE ALLOWED FOR WORK PERFORMED RESULTING FROM A LACK OF COORDINATION.
CONTROLS
CONTROLS FOR THIS PROJECT SHALL TURN-KEY AND INCLUDE ALL HARDWARE AND SOFTWARE FOR A COMPLETE WORKING BMS SYSTEM. CONTROLS SHALL INCLUDE A CENTRALIZED CONTROLLER, CONTROL INTEGRATION FOR AIR HANDLERS AND CONDENSERS, MORNING WARM UP CYCLE, AND VRF SYSTEM CONTROLS. COORDINATE WITH OWNER'S REP REGARDING LOCATION OF THERMOSTATS, CONTROLLER AND/OR REMOTE ROOM SENSORS. INCLUDE PROGRAMMING AND TRAINING IN BASE BID. ALL CONTROL WIRING INSIDE THE MECHANICAL ROOMS AND CONCEALED IN WALLS SHALL BE IN CONDUIT, INSTALLED BY CONTROLS CONTRACTOR. REMAINING WIRING SHALL BE PLENUM RATED.
ASHRAE 15/34 COMPLIANCE
THIS PROJECT SHALL BE FULLY COMPLIANT WITH THE ASHRAE 15 SAFETY STANDARD FOR REFRIGERATION SYSTEMS, BASED ON THE ASHRAE 34 CLASSIFICATION OR R-410A REFRIGERANT. A COMBINATION OF ROOM TRANSFERS, INDEPENDENT CIRCUITS, EXHAUST FANS, AND REFRIGERANT MONITORS WITH CONTACTS FOR RUNNING EXHAUST FANS ARE USED FOR COMPLIANCE. THE INSTALLING CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF ASHRAE 15.

GENERAL NOTES
GENERAL NOTES: 1. ALL WORK SHALL COMPLY WITH APPLICABLE CODES, LOCAL ORDINANCES, & LOCAL REQUIREMENTS. AS A MINIMUM, ADDITIONAL, MORE STRINGENT REQUIREMENTS SHALL GOVERN. 2. CONTRACT DOCUMENTS ARE SCHEMATICS, NOT SHOP DRAWINGS. SHOP DRAWINGS SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED TO CLARIFY DETAILS OF INSTALLATION. 3. ALL SUBSTITUTIONS SHALL BE PRE-APPROVED. 4. PAY FOR ALL PERMITS & FEES RELATED TO THE EXECUTION OF THIS WORK. 5. INSPECT & REPORT ON DEFECTIVE EXISTING CONDITIONS PRIOR TO BID OR START OF WORK. 6. DO NOT CUT OR MODIFY STRUCTURAL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL BY ARCHITECT. 7. COORDINATE WITH OTHER TRADES & ARCHITECT FOR THE PROPER & COMPLETE INSTALLATION OF THE WORK. 8. MAKE ALL NECESSARY PROVISIONS TO CREATE A SAFE WORK ENVIRONMENT. 9. PROVIDE SUBMITTALS FOR ALL WORK. 10. IDENTIFY ALL MECHANICAL EQUIPMENT WITH PLASTIC ENGRAVED TAGS. 11. ISOLATE MOTORIZED OR MOVING EQUIPMENT FROM STRUCTURE WITH APPROVED METHODS. 12. INSULATE INDIRECT WASTE PIPING TO PREVENT CONDENSATION. 13. COORDINATE AIR TERMINALS WITH ARCHITECTURAL CEILING TYPES AND SURFACE FINISHES, AS APPROPRIATE. PROVIDE COLOR SAMPLES TO ARCHITECT. 14. PROVIDE A 1 YEAR WARRANTY FOR ALL WORK. 15. PRODUCT INSTALLATION METHODS SHALL BE IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTRUCTIONS. 16. DUCT SIZES ARE INSIDE CLEAR DIMENSIONS. FOR LINED DUCTS, MAINTAIN SIZES INSIDE LINING.
PRODUCTS: 1. ALL PRODUCTS SHALL BE NEW, IN PERFECT CONDITION, & SHALL BEAR THE MANUFACTURER'S LABEL. 2. DUCTWORK SHALL CONFORM TO THE CMC & TO SMACNA STANDARDS FOR GAGES & INSTALLATION, UNLESS OTHERWISE NOTED TO BE MORE STRINGENT. INSULATE ALL HEATING, COOLING & RETURN DUCTS PER TITLE 24 REQUIREMENTS. DUCT LINER SHALL BE FIBER-FREE ARMAFLEX FS SA. DUCT LINER SHALL BE ALLOWED ONLY WHERE PERMITTED BY THE CMC AND LOCAL JURISDICTIONS. DUCTWRAP SHALL BE JM "MICROLITE" XG. 3. CMC COMPLIANCE: ALL AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS, INCLUDING, BUT NOT LIMITED TO, BUILDING CAVITIES, MECHANICAL CLOSETS, AIR-HANDLER BOXES AND SUPPORT PLATFORMS USED AS DUCTS OR PLENUMS, SHALL MEET THE REQUIREMENTS OF THE CMC SECTIONS 601.0, 602.0, 603.0, 604.0, 605.0, AND ANSI/SMACNA-006-2006 HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE 3RD EDITION. CONNECTIONS OF METAL DUCTS AND THE INNER CORE OF FLEXIBLE DUCTS SHALL BE MECHANICALLY FASTENED. OPENINGS SHALL BE SEALED WITH MASTIC, TAPE, AEROSOL SEALANT, OR OTHER DUCT-CLOSURE SYSTEM THAT MEETS THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A, OR UL 181B. IF MASTIC OR TAPE IS USED TO SEAL OPENINGS GREATER THAN 1/4 INCH, THE COMBINATION OF MASTIC AND EITHER MESH OR TAPE SHALL BE USED. PORTIONS OF SUPPLY-AIR AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8; OUTDOORS; OR IN A SPACE BETWEEN THE ROOF AND AN INSULATED CEILING; OR IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES; OR IN AN UNCONDITIONED CRAWLSPACE, OR IN OTHER UNCONDITIONED SPACES. PORTIONS OF SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE. 4. DUCTS EXPOSED TO WEATHER TRANSPORTING CONDITIONED AIR: 2" RIGID DUCTLINER, OR 2" RIGID DUCTBOARD ON OUTSIDE OF DUCTWORK WITH ALUMINUM CLADDING. EXTERNAL DUCTBOARD AND CLADDING ARE REQUIRED FOR ALL EXPOSED DUCTS DOWNSTREAM OF HIGH EFFICIENCY FILTERS (80% OR GREATER). DUCTWORK SEALANT: NON-HARDENING, WATER/FIRE RESISTIVE. HYDRO-STOP INC. "PREMIUMCOAT" SYSTEM ON ALL JOINTS AND ALL SURFACES OF DUCTWORK. 5. ALL REFRIGERANT PIPING, AND OTHER PIPING CONVEYING FLUIDS ABOVE AND/OR BELOW AMBIENT TEMPERATURE, THAT IS EXPOSED TO WEATHER SHALL BE INSULATED PER CURRENT TITLE 24 REQUIREMENTS AND SHALL BE INSTALLED WITH ALUMINUM JACKETING. 6. DUCTWORK SHALL BE ASTM RATED, GALVANIZED WITH G90 ZINC COATING. SEALANT: NON-HARDENING, WATER/FIRE RESISTIVE. FLEXIBLE DUCT ALLOWED LAST 5 FEET OF BRANCH UNO. PROVIDE MVD AT EACH BRANCH. 7. FLEXIBLE DUCT LENGTH LIMITATION: FACTORY-MADE FLEXIBLE AIR DUCTS AND CONNECTORS SHALL NOT BE MORE THAN 5 FEET IN LENGTH, AND SHALL NOT BE USED IN LIEU OF RIGID ELBOWS OR FITTINGS. FLEXIBLE AIR DUCTS SHALL BE PERMITTED TO BE USED AS AN ELBOW AT A TERMINAL DEVICE (CMC 603.4.1). EXCEPTION: RESIDENTIAL OCCUPANCIES. 8. ALL FLEXIBLE DUCTWORK SHALL HAVE NON-POROUS INNER CORES AND SHALL BE UL 181 LISTED. R-VALUES FOR DUCT INSULATION SHALL BE PER THE CURRENT CA TITLE 24 REQUIREMENTS. 9. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX MKC, FLEXMASTER 3B, OR EQUAL. 10. ACOUSTICAL FLEX DUCT SHALL BE CASCO SILENT FLEX II OR EQUAL, EXCEPT WHERE PROHIBITED BY TITLE 24 REQUIREMENTS FOR NON-POROUS INNER CORES. 11. ALL FACTORY & FIELD FABRICATED DUCT SYSTEMS & PRESSURE SENSITIVE TAPES, MASTICS OR OTHER CLOSURE SYSTEMS SHALL COMPLY WITH UL 181. 12. JOINTS & SEAMS OF CONCEALED DUCT SYSTEMS & THEIR COMPONENTS SHALL BE SEALED WITH NON-HARDENING, WATER RESISTANT, FIRE RESISTIVE SEALANT, COMPATIBLE WITH MASTIC MATERIALS; DUCT TAPE SHALL NOT BE ALLOWED AS DUCT SEALER. EXPOSED DUCTWORK SHALL BE NEATLY JOINED AND FASTENED WITH SHEET METAL SCREWS. 13. DUCT SYSTEMS USED WITH BLOWER TYPE EQUIPMENT WHICH ARE PORTIONS OF A HEATING, COOLING, ABSORPTION, EVAPORATIVE COOLING OR OUTDOOR AIR VENTILATION SYSTEM SHALL BE SIZED IN ACCORDANCE WITH CHAPTER 17 OF THE CALIFORNIA MECHANICAL CODE. 14. DUCT LEAKAGE TESTS (CMC SECTION 603.9.2): DUCTWORK SHALL BE LEAK-TESTED IN ACCORDANCE WITH THE SMACNA HVAC AIR DUCT LEAKAGE TEST MANUAL. REPRESENTATIVE SECTIONS TOTALING NOT LESS THAN 10 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED. WHERE THE TESTED 10 PERCENT FAIL TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION, THEN 40 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED. WHERE THE TESTED 40 PERCENT FAIL TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION, THEN 100 PERCENT OF THE TOTAL INSTALLED DUCT AREA SHALL BE TESTED. SECTIONS SHALL BE SELECTED BY THE BUILDING OWNER OR DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. POSITIVE PRESSURE LEAKAGE TESTING SHALL BE PERMITTED FOR NEGATIVE PRESSURE DUCTWORK. 15. PROTECT ALL EQUIPMENT AND DUCT OPENINGS DURING CONSTRUCTION. AT THE TIME OF ROUGH INSTALLATION AND DURING STORAGE ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST, WATER AND DEBRIS WHICH MAY ENTER THE SYSTEM. 16. ENVIRONMENTAL AIR DUCT EXHAUST SHALL TERMINATE NOT LESS THAN 3 FEET FROM A PROPERTY LINE, 10 FEET FROM A FORCED AIR INLET, 5 FEET FROM OPENINGS INTO THE BUILDING, AND SHALL NOT DISCHARGE ONTO A PUBLIC WALKWAY. SEE CMC 502.2.2 FOR DISCHARGE REQUIREMENTS FOR PRODUCT CONVEYING DUCTS. PROVIDE BACK-DRAFT DAMPERS ON EXHAUST SYSTEMS PER CMC 504.1.1. 17. PROVIDE MINIMUM 26 GAGE SHEET METAL AND UL LISTED PENETRATION FIRE STOPPING FOR ALL DUCTS PENETRATING RATED ASSEMBLIES. ALL VERTICAL AND HORIZONTAL PENETRATIONS OF RATED ASSEMBLIES SHALL COMPLY WITH CHAPTER 7 OF THE CBC, INCLUDING FIRE DAMPERS AND RATED SHAFT ENCLOSURES WHERE REQUIRED, COORDINATE WITH THE ARCHITECT AND GC PRIOR TO INSTALLATION.
TEST AND BALANCE: 1. ALL SYSTEMS SHALL BE TESTED BY A CERTIFIED INDEPENDENT AGENCY, TO NEBB OR AABC STANDARDS. PROVIDE CERTIFIED AIR BALANCE REPORT FOR REVIEW PRIOR TO FINAL INSPECTION. 2. BALANCE SYSTEM IN AT LEAST TWO PHASES: 2.1. PRELIMINARY/ROUGH 2.2. FINAL FOR REVIEW BY ARCHITECT. AN ADDITIONAL REBALANCE MAY BE REQUIRED FOR FINAL APPROVAL.


ABBREVIATIONS
A COMPRESSED AIR AC AIR CONDITIONER AFF ABOVE FINISHED FLOOR AFS AUTOMATIC FIRE SPRINKLER SYSTEM AH AIR HANDLER AHJ AUTHORITY HAVING JURISDICTION AI ANALOG INPUT AO ANALOG OUTPUT AP ACCESS PANEL ARCH ARCHITECTURAL DRAWINGS AW ACID WASTE BDD BACK DRAFT DAMPER BHP BRAKE HORSEPOWER BLDG BUILDING BS BIRD SCREEN BTU BRITISH THERMAL UNIT CA COMBUSTION AIR CBC CALIFORNIA BUILDING CODE CD CEILING DIFFUSER CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CGC CALIFORNIA GREEN CODE CHS CHILLED WATER SUPPLY CHR CHILLED WATER RETURN CLG CEILING CMC CA MECHANICAL CODE CO CLEANOUT CONT CONTINUATION COTG CLEAN OUT TO GRADE CR CONTROL RELAY CRC CALIFORNIA RESIDENTIAL CODE CW COLD WATER DOMESTIC D CONDENSATE OR EQUIPMENT DRAIN DDC DIRECT DIGITAL CONTROL DB DRY BULB TEMPERATURE DEGREES F DOW DOMESTIC COLD WATER DHW DOMESTIC HOT WATER DI DIGITAL INPUT DIA DIAMETER DL DOOR LOUVER DN DOWN DO DIGITAL OUTPUT DPS DIFFERENTIAL PRESSURE SWITCH DPT DIFFERENTIAL PRESSURE TRANSMITTER DSP DRY STANDPIPE DTR DUCT THROUGH ROOF DWGS DRAWINGS DX DIRECT EXPANSION (E) EXISTING EA EXHAUST AIR EER ENERGY EFFICIENCY RATING EF EXHAUST FAN EFF EFFICIENCY ELEC ELECTRICAL DRAWINGS ELEV ELEVATION ER EXHAUST REGISTER ESP EXTERNAL STATIC PRESSURE EWH ELECTRIC WATER HEATER F FUTURE FC FAN COIL FA FREE AREA FACP FIRE ALARM CONTROL PANEL FCO FLOOR CLEAN OUT FD FIRE DAMPER FF FINISHED FLOOR ELEVATION FL FLOW LINE FLA FULL LOAD AMPS FLD FLOOR DRAIN FLR FLOOR FPM FEET PER MINUTE FS FLOOR SINK FT FEET G GAS LINE (FUEL GAS) GA GAUGE GAL GALLONS GALV GALVANIZED GC GENERAL CONTRACTOR GI GALVANIZED IRON GPM GALLONS PER MINUTE GI HUMIDITY HB HOSE BIBB HP HORSEPOWER HR HEATING WATER RETURN HS HEATING WATER SUPPLY HSPF HEATING SEASONAL PERFORMANCE FACTOR HW HOT WATER HWR HOT WATER RETURN DOMESTIC HZ HERTZ IW INDIRECT WASTE IWG INCHES WATER GAUGE KW KILOWATT LAV LAVATORY LAT LEAVING AIR TEMP LWT LEAVING WATER TEMP M MOTOR / MOTORIZED MBH THOUSAND BTU PER HOUR MCA MINIMUM CIRCUIT AMPACITY MD MANUAL DAMPER MFR MANUFACTURER MH MANHOLE MIN MINIMUM MS MOTOR STARTER MTO MOUNTED MTL METAL MVD MANUAL VOLUME DAMPER (N) NEW N/A NOT APPLICABLE NC NORMALLY CLOSED NIC NOT IN CONTRACT NTS NOT TO SCALE OBD OPPOSED BLADE DAMPER OD OUTSIDE DIAMETER OFD OVERFLOW DRAIN OFL OVERFLOW RAINWATER LEADER OSA OUTSIDE AIR OSY OUTSIDE STEM & YOKE OW OILY WASTE P&T PRESSURE & TEMPERATURE RELIEF CHR PROCESS CHILLED WATER RETURN PCHS PROCESS CHILLED WATER SUPPLY PH PHASE PIV POST INDICATOR VALVE PLCS PLACES POC POINT OF CONNECTION POT CHEMICAL POT FEEDER PPM PARTS PER MILLION PRESS PRESSURE PRV PRESSURE REDUCING VALVE PSI POUNDS PER SQUARE INCH (R) REMOVE RA RETURN AIR RD ROOF DRAIN REFRIG REFRIGERATION REQD REQUIRED RH REFRIGERANT HOT GAS LINE RL REFRIGERANT LIQUID LINE RLA RATED LOAD AMPS RPM REVOLUTIONS PER MINUTE RS REFRIGERANT SUCTION LINE RWL RAIN WATER LEADER RZ RADIANT ZONE RRZ RADIANT ZONE RETURN RZS RADIANT ZONE SUPPLY SA SUPPLY AIR SD STORM DRAIN / SMOKE DETECTOR SE SEASONAL EFFICIENCY SEER SEASONAL ENERGY EFFICIENCY RATING SF SQUARE FEET SFD SMOKE & FIRE DAMPER SL SOUNDLINER SMH SEWER MAN HOLE SOV SHUT OFF VALVE SP STATIC PRESSURE SPEC SPECIFICATIONS SS STAINLESS STEEL SSC SOLID STATE SPEED CONTROL STD STANDARD STL STEEL STRUCT STRUCTURAL DRAWINGS SW SOFTENED WATER / SWITCH SDW SIDE WALL DIFFUSER SWE SIDE WALL EXHAUST SWR SIDE WALL RETURN T24 CALIFORNIA ENERGY CODE TCP TEMPERATURE CONTROL PANEL TG TRANSFER GRILLE TH THERMOSTAT TS TEMPERATURE SENSOR TSTAT THERMOSTAT TW TEMPERED WATER TXV THERMOSTATIC EXPANSION VALVE TYP TYPICAL URINAL URINAL UC UNDERCUT UH UNIT HEATER UL UNDERWRITERS' LABORATORIES, INC. UNO UNLESS NOTED OTHERWISE UTR UP THROUGH ROOF UVV ULTRAVIOLET SUBTYPE C V SANITARY VENT VAC VOLT AMPS VAC HOUSE VACUUM / VOLTS AC VB VACUUM BREAKER VR VANDAL RESISTANT VTR VENT THROUGH ROOF W SANITARY WASTE W.C. WATER COLUMN WC WATER CLOSET WCO WALL CLEAN OUT WF WALL FURNACE WH WATER HEATER WHA WATER HAMMER ARRESTOR WM WATER METER WT WEIGHT

SYMBOLS
 RETURN DUCT DROP  SUPPLY DUCT DROP  EXHAUST DUCT DROP  SUPPLY DUCT RISER  RETURN DUCT RISER  EXHAUST DUCT RISER  CEILING DIFFUSER  MANUAL VOLUME DAMPER  DOOR LOUVER  SOUND LINED DUCT  FIRE DAMPER (FD)  SMOKE & FIRE DAMPER (SFD)  DUCT DROP  SMOKE DETECTOR  PIPE/DUCT BREAK  MOTORIZED DAMPER OR DUCT SMOKE DETECTOR  WALL CLEAN OUT  WATER HAMMER ARRESTOR  PIPE DROP  PIPE RISER  POINT OF CONNECTION  POINT OF DISCONNECTION  WASTE  VENT  FLOOR DRAIN  FLOOR SINK  PRESSURE & TEMPERATURE RELIEF VALVE  CHECK VALVE  BALL VALVE  BALL VALVE/MEMORY STOP  PRESSURE REDUCING VALVE  AUTOMATIC BALANCING VALVE  MANUAL SERVICE/BALANCING VALVE  BUTTERFLY VALVE  2 WAY CONTROL VALVE  3 WAY CONTROL VALVE  TRIPLE DUTY VALVE  UNION  REDUCER  STRAINER  SOV IN RISER  AUTOMATIC AIR VENT  PRESSURE GAUGE  THERMOMETER  AQUASTAT  BY ELECTRICAL  BY MECHANICAL  BYPASS TIMER  RELAY  THERMOSTAT  SENSOR  LOW VOLTAGE  LINE VOLTAGE  MANUAL SWITCH  NO CONTACT  NC CONTACT  OVERLOAD CONTACT  MOTOR  MOTOR STARTER  TIME SWITCH  FLOW SWITCH  DIFFERENTIAL PRESSURE SWITCH  TEMPERATURE SENSOR  TEST PORT  FLEXIBLE PIPE CONNECTOR  FIRE  COLD WATER  HOT WATER  HOT WATER RETURN  GAS  DEMOLITION WORK

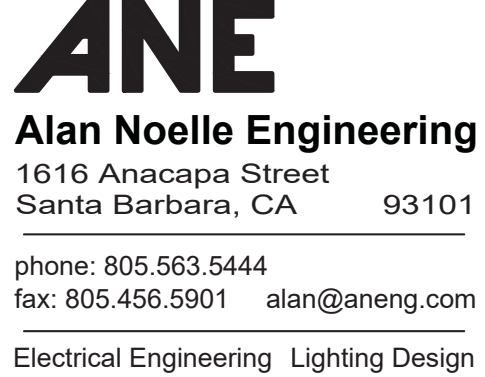
MECHANICAL SHEET INDEX
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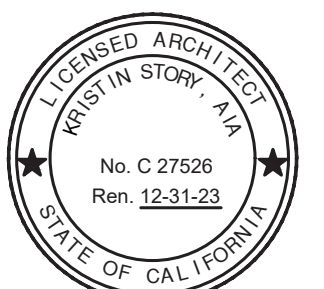
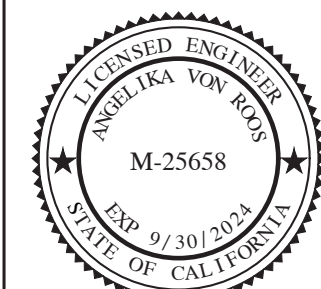
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AGENCY APPROVAL: CITY OF SANTA BARBARA. PERMIT #: _____	
MILESTONE DATES:	
9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
04-22-24	PLANNING DEPT. SUBMITTAL
REVISIONS:	
THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.	
PROJECT TITLE:	
SANSUM DIABETES RESEARCH INSTITUTE 2219 BATH STREET SANTA BARBARA, CA 93105	
SHEET TITLE: Abbreviations, Symbols, Notes	
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M-1.1	

MODE CONTROL UNITS								VRF MULTIZONE SPLIT SYSTEM FAN COILS															
TAG	MANUFACTURER	MODEL	PORTS	VOLT-PH-Hz	MOCP	MCA	APPROX WEIGHT (LBS)	NOTES	TAG	MANUFACTURER	MODEL (INDOOR UNIT)	ARI COOLING (MBH)	ARI HEATING (MBH)	CFM (LO-MED-HI)	OSA	ELECTRICAL			dB(A) (L/H)	APPROX WEIGHT (LBS)	NOTES	MCU	SERVES
																VOLT-PH-Hz	MCA	MOCP					
MCU 1.1	SAMSUNG	MCU S6NEK2N	6	208/230-1-60	15	2	63	①②	FC 100	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	125	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	1.3	Lab 101, Dexa Scanner 100
MCU 1.2	SAMSUNG	MCU S6NEK2N	6	208/230-1-60	15	2	63	①②	FC 103	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	300	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	1.3	Infusion 103, Exercise 102, N Stairs
MCU 1.3	SAMSUNG	MCU S6NEK2N	6	208/230-1-60	15	2	63	①②	FC 106	SAMSUNG	AM018 TNVDCH	18	20	424-487-555	-	208/230-1-60	0.44	15	34/40	36.5	①②③④⑤⑦	2.3	Freezer Farm 106
MCU 2.1	SAMSUNG	MCU S8NEK1UN	8	208/230-1-60	15	2	89	①②	FC 107	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	100	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	2.3	Storage 107
MCU 2.2	SAMSUNG	MCU S8NEK1UN	8	208/230-1-60	15	2	89	①②	FC 109	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	450	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	2.3	Flex Space 109, Bio Hazard 105, cont...
MCU 2.3	SAMSUNG	MCU S8NEK1UN	8	208/230-1-60	15	2	89	①②	FC 115	SAMSUNG	AM012 TNVDCH	12	13.5	293-321-364	-	208/230-1-60	0.31	15	34/40	20.9	①②③④⑤⑦	2.3	Server Room 115
MCU 3.1	SAMSUNG	MCU S8NEK1UN	8	208/230-1-60	15	2	89	①②	FC 116	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	500	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	1.3	Kitchen 116, Laundry 117, cont...
MCU 3.2	SAMSUNG	MCU S8NEK1UN	8	208/230-1-60	15	2	89	①②	FC 119	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	100	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	1.3	Research Staff 119, Flex Space #1
MCU 3.3	SAMSUNG	MCU S8NEK1UN	8	208/230-1-60	15	2	89	①②	FC 123	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	400	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	2.3	Storage 123/125, Facilities Office 123
MCU 3.4	SAMSUNG	MCU S8NEK1UN	8	208/230-1-60	15	2	89	①②	FC 200	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	200	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	1.2	Reception 200, Break Room 204, cont...
MCU 3.5	SAMSUNG	MCU S8NEK1UN	8	208/230-1-60	15	2	89	①②	FC 201	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.2	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑦	1.2	Office 7 201

- ① INSTALL PER MFR'S INSTRUCTIONS. ② PROVIDE FACTORY BRANCH ISOLATION VALVES FOR EACH BRANCH FITTING, USED OR UNUSED.
 ③ CONTRACTOR TO OBSERVE MANUFACTURER'S REFRIGERANT LINESET LENGTH LIMITATIONS AND VERIFY REQUIRED PIPING LENGTHS PRIOR TO EQUIPMENT INSTALLATION.

VRF MULTIZONE SPLIT SYSTEM HEAT PUMPS WITH HEAT RECOVERY

TAG	MANUFACTURER	MODEL NUMBER	ARI COOLING (MBH)	ARI HEATING (MBH)	EER/IEER	COP	REFRIGERANT	ELECTRICAL			dBA	APPROX WEIGHT (LBS)	NOTES
								VOLT-PH-Hz	MCA	MOCP			
HP 1	SAMSUNG	AM240 BXVGR/AA	240	270	10.60/22.95	3.30	R-410A	208/230-3-60	68.0	80	66	916	①②③④⑤⑥⑦⑧
HP 2	SAMSUNG	AM216 BXVGR/AA	216	243	11.05/25.15	3.49	R-410A	208/230-3-60	64.0	80	64	858	①②③④⑤⑥⑦⑧
HP 3	SAMSUNG	AM216 BXVGR/AA	216	243	11.05/25.15	3.49	R-410A	208/230-3-60	64.0	80	64	858	①②③④⑤⑥⑦⑧

- ① PROVIDE SEACOAST OPERATION SALT PROTECTION OPTION. ② PROVIDE FACTORY AUTHORIZED STARTUP AND TESTING. ③ FACTORY CERTIFIED INSTALLATION.
 ④ INSTALL PER MFR'S SPECIFIC INSTRUCTIONS. ⑤ PROVIDE FACTORY CONTROLLERS AND POWER SUPPLY.
 ⑥ PROVIDE MCM-A300UN CENTRAL CONTROLLER & MIM-D01AUN DATA MANAGEMENT SERVER FOR WEB-INTERFACE. SEE CONTROLS DRAWINGS.
 ⑦ NITROGEN PURGE ALL BRAZED PIPING CONNECTIONS.
 ⑧ PROVIDE DRAIN CONNECTION FROM BOTTOM OF CONDENSER TO COLLECT CONDENSATION AND ROUTE TO LANDSCAPE.

VRF SYSTEM INSULATION SPECIFICATION

INSULATION SPECIFICATION:
 MATERIAL: LOW-DENSITY EPDM CLOSED-CELL ELASTOMERIC FOAM, CFC AND HCFC GAS FREE WITH OVERLAP SEAL.
 THERMAL CONDUCTIVITY: 0.235 (BTU*in/hr*fi²*F) AT 75°F.
 WATER VAPOR PERMEABILITY: <0.03 PERM (4.38 x 10⁻¹¹ g/Pa*s*m) PER ASTM E96.
 WATER ABSORPTION: <0.2% BY VOLUME PER ASTM C 209.
 WORKING TEMPERATURE: -70°F TO 257°F (-57°C TO 125°C) CONTINUOUS PER ASTM C 411.
 SURFACE BURNING CHARACTERISTICS: MEETS 25/50 FLAME-SPREAD/SMOKE-GENERATED PER UL723 AND ASTM E84. ADDITIONALLY MEETS UL-945 V-A, V-0 AND IS SELF-EXTINGUISHING PER ASTM D 635.
 UV RESISTANT: EPDM PROVIDES UV RESISTANCE IN ACCORDANCE WITH ASTM G7/G90.
 OZONE RESISTANT: MEETS ASTM D 1171.

TITLE 24 INSULATION WALL THICKNESS SPECIFICATION:
 HOT GAS PIPES: ABOVE 200°F (3-PIPE HEAT RECOVERY SYSTEM) USE 2 1/2" WALL THICKNESS; BELOW 200°F (2-PIPE HEAT RECOVERY SYSTEMS) USE 1 1/2" WALL THICKNESS; (HEAT PUMPS AND LINE SETS FOLLOW THE SAME ABOVE REQUIREMENTS BASED ON PIPE TEMPERATURES). NOTE: 2 1/2" THICKNESS REQUIRES DOUBLE LAYERS TO MEET 25/50 FIRE/SMOKE CODES.
 LIQUID PIPES: 1" WALL THICKNESS
 SUCTION GAS PIPES: 1" WALL THICKNESS FOR LESS THAN 1" PIPE; 1 1/2" WALL THICKNESS FOR GREATER THAN 1" PIPE

REFRIGERANT PIPING NOTES

- PROVIDE BRAZED IN ISOLATION VALVES ON ALL BRANCHES FROM THE BC CONTROLLER, USED OR UNUSED.
- REFRIGERANT PIPING SHALL BE ACR COPPER WITH BRAZED FITTINGS. NITROGEN PURGE ALL BRAZING OPERATIONS.
- FOLLOW ALL OF THE MANUFACTURER'S SPECIFIC PIPING INSTALLATION RULES FOR FITTINGS, PIPE LENGTH LIMITS, ELEVATION LIMITS AND INSULATION.
- EVAQUATE AND LEAK TEST ALL PIPING PRIOR TO CHARGING WITH REFRIGERANT.
- MAINTAIN REQUIRED SERVICE AND AIR FLOW CLEARANCE AROUND ALL MECHANICAL EQUIPMENT.
- ALL REFRIGERANT PIPING INSULATION EXPOSED TO WEATHER SHALL BE CLAD WITH ALUMINUM.

TAG	MANUFACTURER	MODEL (INDOOR UNIT)	ARI COOLING (MBH)	ARI HEATING (MBH)	CFM (LO-MED-HI)	OSA	ELECTRICAL			dB(A) (L/H)	APPROX WEIGHT (LBS)	NOTES	MCU	SERVES
							VOLT-PH-Hz	MCA	MOCP					
FC 100	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	125	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	1.3	Lab 101, Dexa Scanner 100
FC 103	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	300	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	1.3	Infusion 103, Exercise 102, N Stairs
FC 106	SAMSUNG	AM018 TNVDCH	18	20	424-487-555	-	208/230-1-60	0.44	15	34/40	36.5	①②③④⑤⑦	2.3	Freezer Farm 106
FC 107	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	100	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	2.3	Storage 107
FC 109	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	450	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	2.3	Flex Space 109, Bio Hazard 105, cont...
FC 115	SAMSUNG	AM012 TNVDCH	12	13.5	293-321-364	-	208/230-1-60	0.31	15	34/40	20.9	①②③④⑤⑦	2.3	Server Room 115
FC 116	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	500	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	1.3	Kitchen 116, Laundry 117, cont...
FC 119	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	100	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	1.3	Research Staff 119, Flex Space #1
FC 123	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	400	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	2.3	Storage 123/125, Facilities Office 123
FC 200	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	200	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	1.2	Reception 200, Break Room 204, cont...
FC 201	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.2	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑦	1.2	Office 7 201
FC 202	SAMSUNG	AM009 TNVDCH	9.5	10.5	244-272-300	ERV-2.2	208/230-1-60	0.25	15	32/34	20.9	①②③④⑤⑦	1.2	Office Combo 6 202
FC 203	SAMSUNG	AM005 TNVDCH	5	5.8	145-159-173	ERV-2.2	208/230-1-60	0.16	15	27/31	19.8	①②③④⑤⑦	1.1	Office 5 203
FC 205	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.2	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑦	1.1	Office 4 205
FC 206	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.2	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑦	1.1	Office 3 206
FC 207	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.2	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑦	1.1	Office 2 207
FC 208	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.2	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑦	1.1	Admin/Office 1 208
FC 209	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.1	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑦	2.1	Office 4 209
FC 210	SAMSUNG	AM009 TNVDCH	9.5	10.5	244-272-300	ERV-2.1	208/230-1-60	0.25	15	32/34	20.9	①②③④⑤⑦	2.1	Office 3 210
FC 211	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.1	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑥	2.1	Office 2 211
FC 212	SAMSUNG	AM018 TNVDCH	18	20	424-487-555	ERV-2.1	208/230-1-60	0.44	15	34/40	36.5	①②③④⑤⑥	2.1	Conference 1 212
FC 213	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.1	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑥	2.1	Office 1 213
FC 214	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.1	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑥	2.1	Huddle Room 214
FC 216	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.1	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑥	2.2	Office 10 216
FC 217	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.1	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑥	2.2	Office 9 217
FC 218	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.1	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑥	2.2	Office 8 218
FC 219	SAMSUNG	AM007 TNVDCH	7.5	8.5	159-177-201	ERV-2.1	208/230-1-60	0.2	15	30/34	19.8	①②③④⑤⑥	2.2	Office 7 219
FC 220	SAMSUNG	AM005 TNVDCH	5	5.8	145-159-173	ERV-2.1	208/230-1-60	0.16	15	27/31	19.8	①②③④⑤⑥	1.2	Office 8 220
FC 222	SAMSUNG	AM036 ANHDCH	36	40	706-918-1095	400	208/230-1-60	3.11	15	30/37	98.1	①②③④⑤⑥	1.2	Library/Conference 222
FC 223	SAMSUNG	AM005 TNVDCH	5	5.8	145-159-173	ERV-2.1	208/230-1-60	0.16	15	27/31	19.8	①②③④⑤⑥	2.2	Office 6 223
FC 224	SAMSUNG	AM005 TNVDCH	5	5.8	145-159-173	ERV-2.1	208/230-1-60	0.16	15	27/31	19.8	①②③④⑤⑥	2.2	Office 5 224
FC 226	SAMSUNG	AM048 ANHDCH	48	54	883-1271-1519	400	208/230-1-60	3.4	15	34/42	98.1	①②③④⑤⑥	2.2	Open Area 226, Unisex Restroom 226, cont...
FC 300	SAMSUNG	AM015 ANMDCH	15	17	353-388-494	150	208/230-1-60	1.29	15	25/31	60.6	①②③④⑤⑥	3.3	Waiting Room 300, E Hallway 1
FC 301	SAMSUNG	AM024 ANHDCH	24	27	494-671-812	300	208/230-1-60	2.41	15	28/36	77.2	①②③④⑤⑥	3.3	Conference Room 301, Kitchen 302
FC 302	SAMSUNG	AM012 TNVDCH	12	13.5	293-321-364	ERV-3.1	208/230-1-60	0.31	15	34/40	20.9	①②③④⑤⑥	3.1	Training Kitchen 302
FC 304	SAMSUNG	AM009 TNVDCH	9.5	10.5	244-272-300	ERV-3.1	208/230-1-60	0.25	15	32/34	20.9	①②③④⑤⑥	3.1	Consulting Room 304
FC 305	SAMSUNG	AM009 TNVDCH	9.5	10.5	244-272-300	ERV-3.1								

EXHAUST FANS

TAG	MANUFACTURER	MODEL	CFM	ESP (WG)	ELECTRICAL			BACKDRAFT DAMPER	SONES	FACTORY CURB	APPROX WEIGHT (LBS)	NOTES
					VOLT-PH-Hz	MCA	MOCp					
EF 1.1	GREENHECK	USF-12 VG	950	1.5	208-3-60	6.2	10	0.32	YES	11.3	165	①②
EF 1.2	GREENHECK	USF-12 VG	1000	1.5	208-3-60	6.2	10	0.34	YES	11.3	165	①②

- ①VARI-GREEN EC MOTOR WITH FACTORY VFD AND BUILDING CONTROL SYSTEM INTERFACE FACTORY NEMA CONTROL ENCLOSURE.
 ②PROVIDE FACTORY BACKDRAFT DAMPER AND ROOF CURB.

ENERGY RECOVERY VENTILATORS

TAG	MANUFACTURER	MODEL	CFM	ESP (WG)	ELECTRICAL			APPROX WEIGHT (LBS)	NOTES
					VOLT-PH-Hz	MCA	MOCp		
ERV 2.1	RENEWAIRE	HE 1XRTC	600	.75	208-1-60	10.8	15	358	①② ④⑤⑥
ERV 2.2	RENEWAIRE	HE 1XRTC	500	.75	208-1-60	10.8	15	358	①② ④⑤⑥
ERV 3.1	RENEWAIRE	HE 2XRTC	1050	1.0	208-3-60	16.3	20	711	①②③④⑤⑥

- ①INSTALL PER MANUFACTURER'S INSTRUCTIONS. ②PROVIDE MERV-13 OUTDOOR AIR FILTER AND EXHAUST FILTERS. ③②) 2 HP BELT DRIVE FANS WITH OPTIONAL VFD'S.
 ④PROVIDE PLASMA AIR BIPOLAR IONIZER AND STERIL-AIRE UVC LIGHTS. ⑤DRAIN PER MFR'S INSTRUCTIONS.
 ⑥PROVIDE FACTORY WALL CONTROLLER AND INTERFACE WITH BUILDING CONTROL SYSTEM.
 ⑥PROVIDE OPTIONAL HORIZONTAL RTU TRANSITION KIT, DIGITAL TIME CLOCK, IAQ SENSOR, AND SMOKE DETECTOR.

AIR TERMINAL SCHEDULE

TAG	MANUFACTURER	MODEL	APPLICATION	NOTES
SIZE A/CFM	METALAIRE	5000 SERIES	CEILING SUPPLY	①②③④⑤
SIZE B/CFM	METALAIRE	VHD SERIES	SIDEWALL SUPPLY	①②③④⑤
SIZE C/CFM	METALAIRE	RHD SERIES	RETURN	①②③④⑤
SIZE D/CFM	METALAIRE	CC5 SERIES	EXHAUST	①②③④⑤

- ①FRAME TYPES & COLORS TO MATCH SURFACE FINISH. COORDINATE WITH ARCHITECT. ②AIR PATTERN AS SHOWN ON PLANS.
 ③FILLER PANEL FOR T-BAR APPLICATIONS. ④PROVIDE OBD FOR EACH AIR TERMINAL.
 ⑤ALL ALUMINUM CONSTRUCTION EXCEPT FOR FIRE RATED ASSEMBLIES THAT REQUIRE STEEL CONSTRUCTION.



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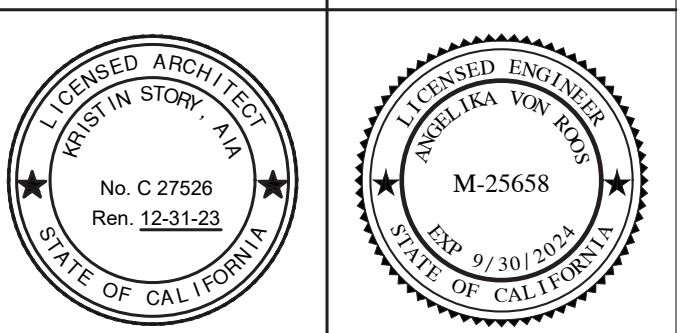
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ARCHITECT STAMP CONSULTANT STAMP



AGENCY APPROVAL: CITY OF SANTA BARBARA
 PERMIT #:

MILESTONE DATES:
 9-22-23 PLANNING DEPT. SUBMITTAL
 10-2-23 PLANNING DEPT. SUBMITTAL
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PROJECT TITLE:

SANSUM DIABETES RESEARCH INSTITUTE
 2219 BATH STREET
 SANTA BARBARA, CA 93105

SHEET TITLE:
Equipment Schedules
 DATE: 04-22-24

DRAWN BY: TDH, LLA
 JOB NUMBER: SAN-2201

M-1.3

DEMOLITION NOTES

- CAP (E) DUCTS PRIOR TO CONSTRUCTION TO PREVENT DUST AND OTHER CONTAMINANTS FROM ENTERING DUCT SYSTEM AND ASSOCIATED EQUIPMENT.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF ANY DEMOLITION INDICATED ON DRAWINGS.
- DEMO DRAWINGS ARE SCHEMATIC, BASED ON CURSORY FIELD OBSERVATION. REPORT ALL DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING WORK.
- SEE DIVISION 1 SPECIFICATIONS FOR CONTRACTOR'S CONDITIONS OF ACCEPTANCE OF EXISTING CONDITIONS.
- COORDINATE UTILITY OUTAGES WITH ALL AFFECTED PARTIES, INCLUDING THE UTILITY COMPANIES, OWNER AND OCCUPANTS OF BUILDINGS. VERIFY CONSTRUCTION PHASING WITH ARCHITECT.
- REMOVE, RELOCATE AND EXTEND EXISTING WORK TO ACCOMMODATE NEW CONSTRUCTION.

- ISOLATE FIXTURES AND EQUIPMENT TO BE REMOVED BY SHUTTING OFF MAINS OR PROVIDING NEW ISOLATION VALVES AS REQUIRED. DRAIN ALL WATER PIPING BEFORE REMOVING PIPING. REMOVE ALL UNUSED WATER PIPING AND CAP AT NEAREST ACTIVE BRANCH TEE. DO NOT LEAVE DEAD END RUNS. DISINFECT AND FLUSH ENTIRE POTABLE WATER SYSTEM OF ANY DOMESTIC SYSTEM WHERE CROSS CONNECTION IS SUSPECTED TO HAVE OCCURRED.
- REMOVE ANY ABANDONED ABOVE GRADE WORK FROM THIS AND PRIOR WORK.
- PIPING BELOW GRADE MAY BE ABANDONED IN PLACE, PROVIDED IT DOES NOT INTERFERE WITH NEW WORK. CAP WASTE BELOW FLOOR AND REMOVE UNUSED VENT PIPING TO ROOF OR CAP AT NEAREST ACTIVE BRANCH TEE. PATCH AND REPAIR DEMOLISHED AREAS.
- PROTECT EXISTING STRUCTURE AND WORK FROM DAMAGE DURING DEMOLITION.

- CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT TO BE RELOCATED OR REUSED.
- IF HAZARDOUS MATERIALS ARE A PART OF THIS PROJECT, COORDINATE REMOVAL OF WORK WITH HAZARDOUS MATERIALS DEMOLITION CONTRACTOR.
- CAREFULLY REMOVE FIXTURES AND EQUIPMENT. PROVIDE OWNER THE OPTION OF SALVAGING ANY EQUIPMENT OR MATERIALS BEING REMOVED.

KEYNOTES

- (E) 20 TON ROOFTOP MULTI-ZONE PACKAGED UNITS AC-1 AND AC-2 TO BE DEMOLISHED AND REMOVED INCLUDING ROOF CURBS, DUCTWORK, AND ASSOCIATED PIPING AND CONTROLS.
- (E) SINGLE ZONE ROOFTOP PACKAGED UNITS AC-3, AC-4, AC-5 TO BE DEMOLISHED AND REMOVED, INCLUDING ROOF CURBS, DUCTWORK, AND ASSOCIATED PIPING AND CONTROLS.
- (E) EXHAUST FANS TO BE DEMOLISHED AND REMOVED, INCLUDING ROOF CURBS, AND ASSOCIATED DUCTWORK AND CONTROLS.
- DEMOLISH AND REMOVE ALL EXISTING DUCTWORK, REGISTERS, CONTROLS AND ASSOCIATED INSULATION, PIPING, AND SUPPORTS.
- DEMOLISH AND REMOVE EXISTING DUCTWORK IN SHAFTS.

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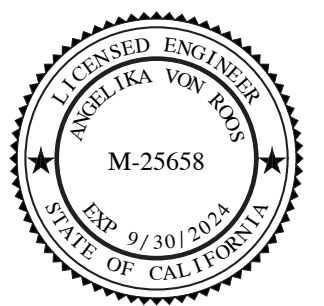
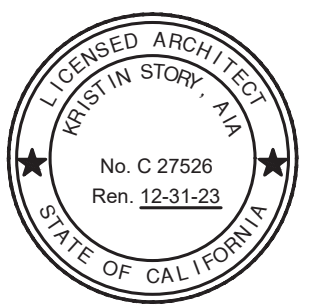
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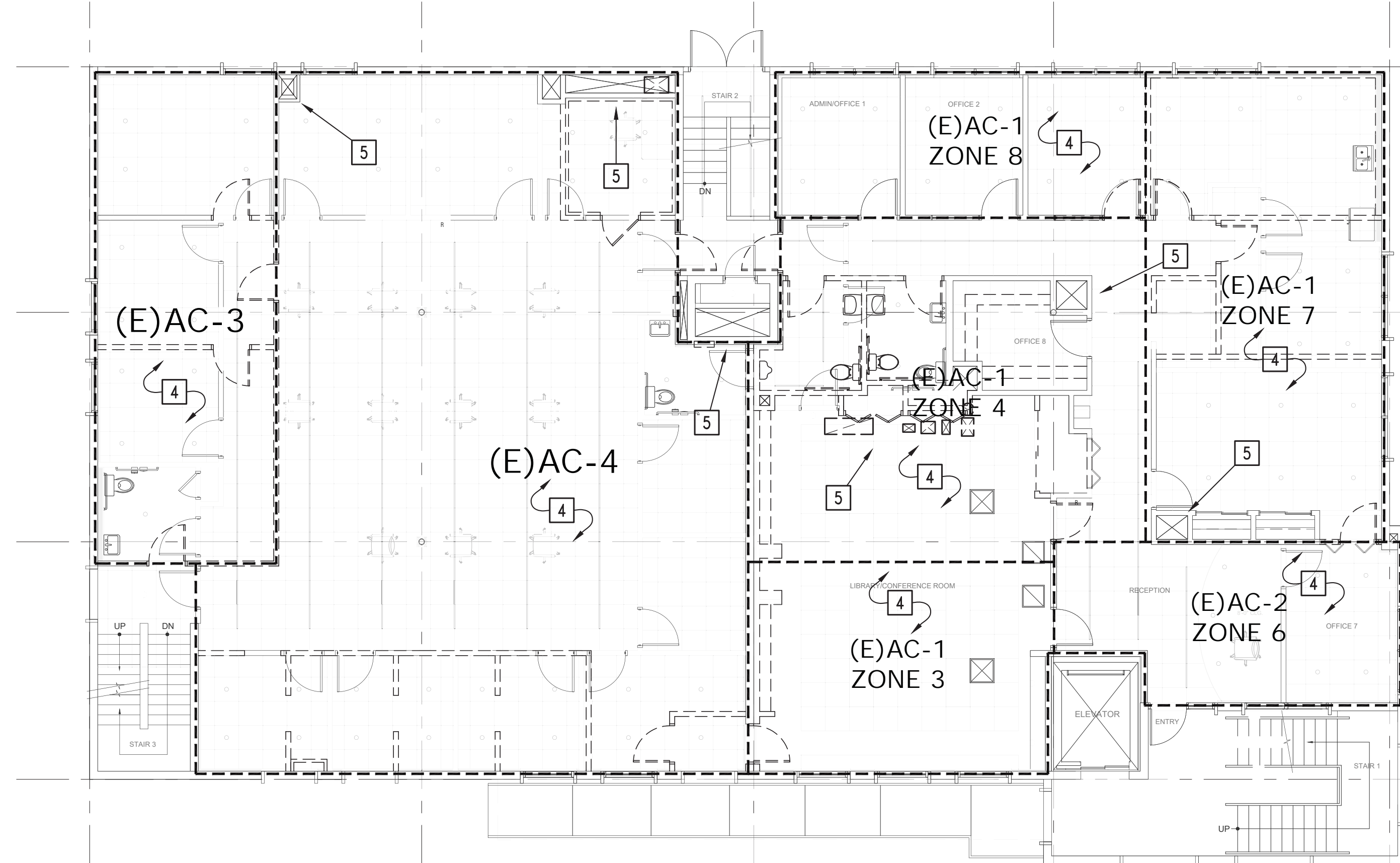
PROJECT TITLE:

**SANSUM DIABETES
RESEARCH
INSTITUTE**
2219 BATH STREET
SANTA BARBARA, CA
93105

SHEET TITLE:
**Mechanical
Demolition Plans**
DATE: 04-22-24

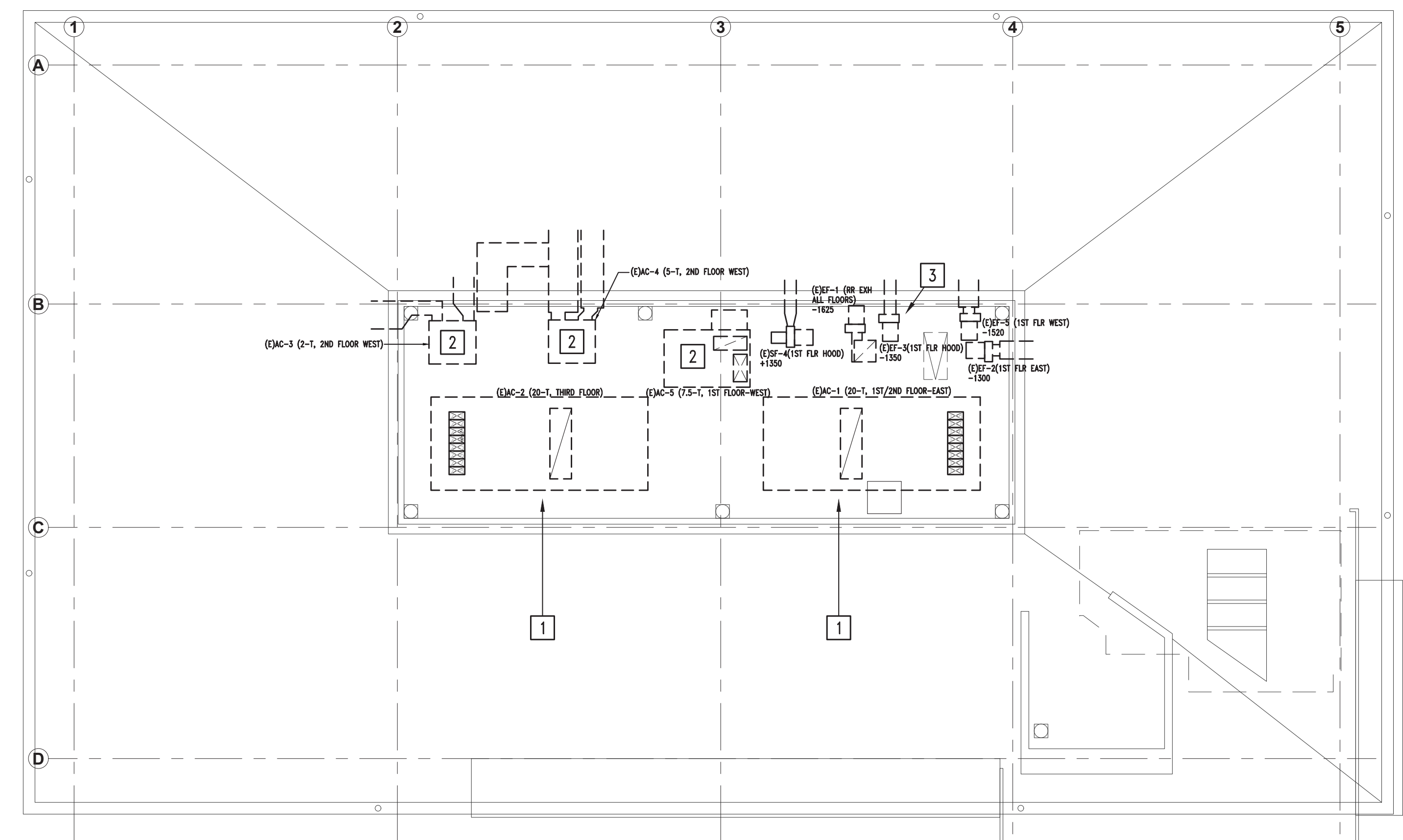
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JOB NUMBER: SAN-2201

M-2.0



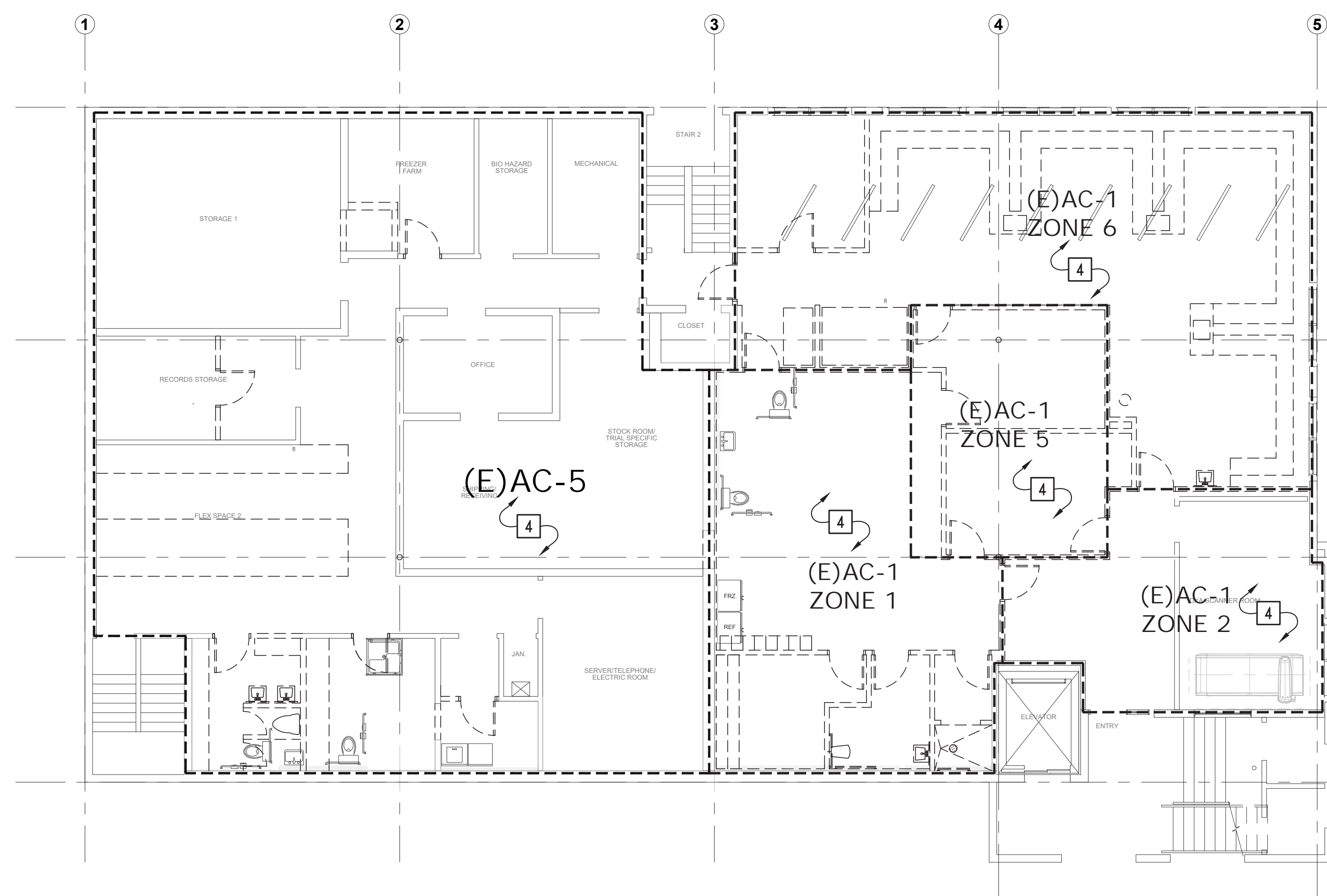
FIRST FLOOR MECHANICAL DEMO PLAN

1/8" = 1'-0"



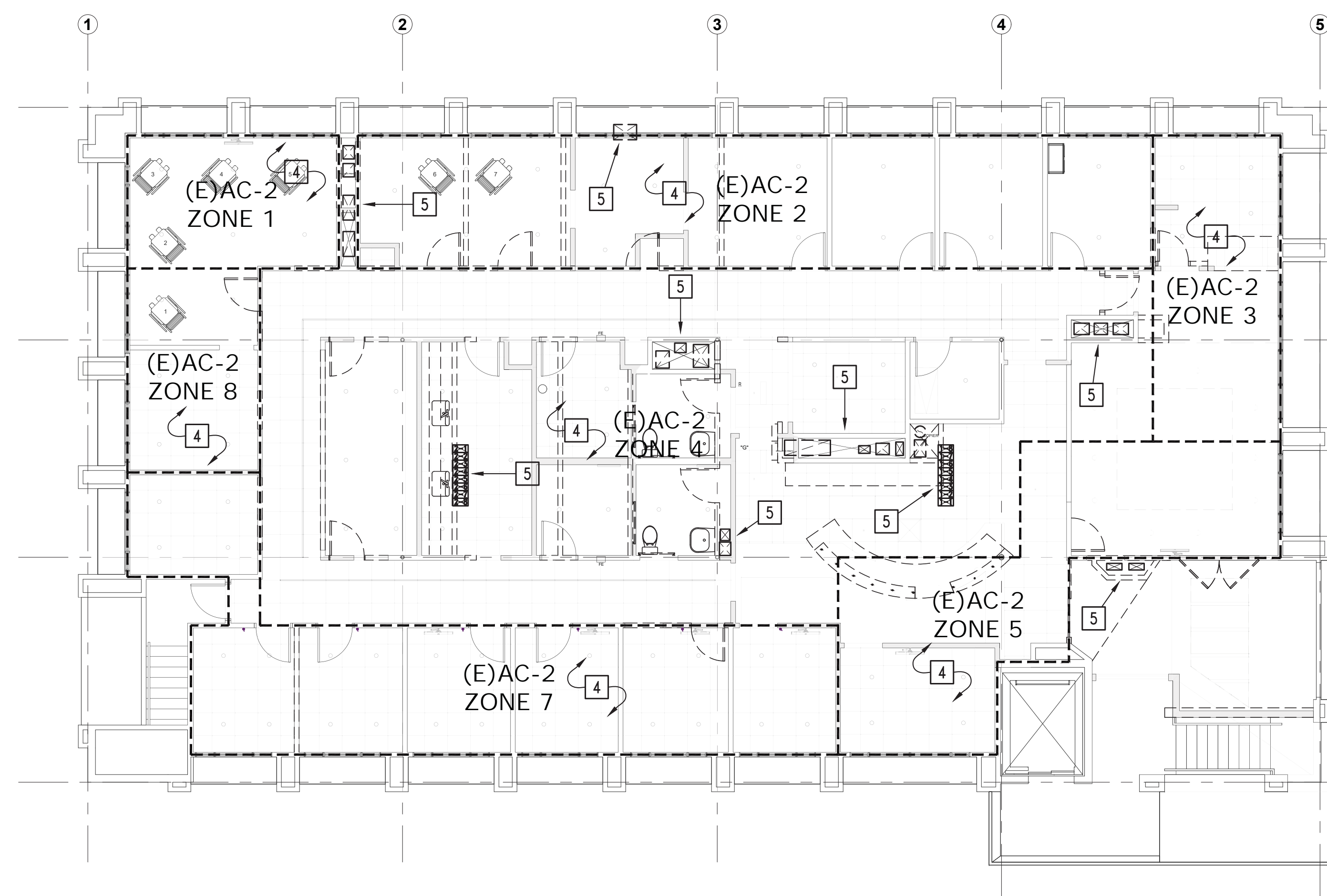
ROOF MECHANICAL DEMO PLAN

1/8" = 1'-0"



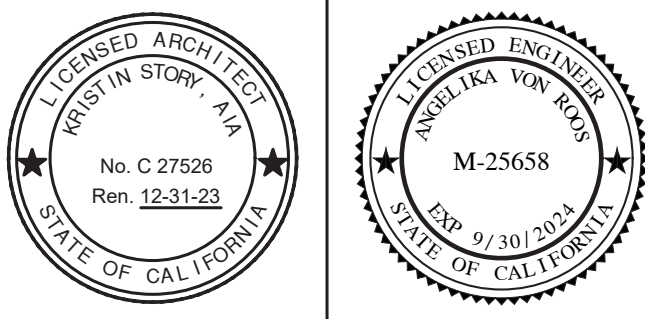
BASEMENT MECHANICAL DEMO PLAN

1/8" = 1'-0"



SECOND FLOOR MECHANICAL DEMO PLAN

1/8" = 1'-0"



MILESTONE DATES:

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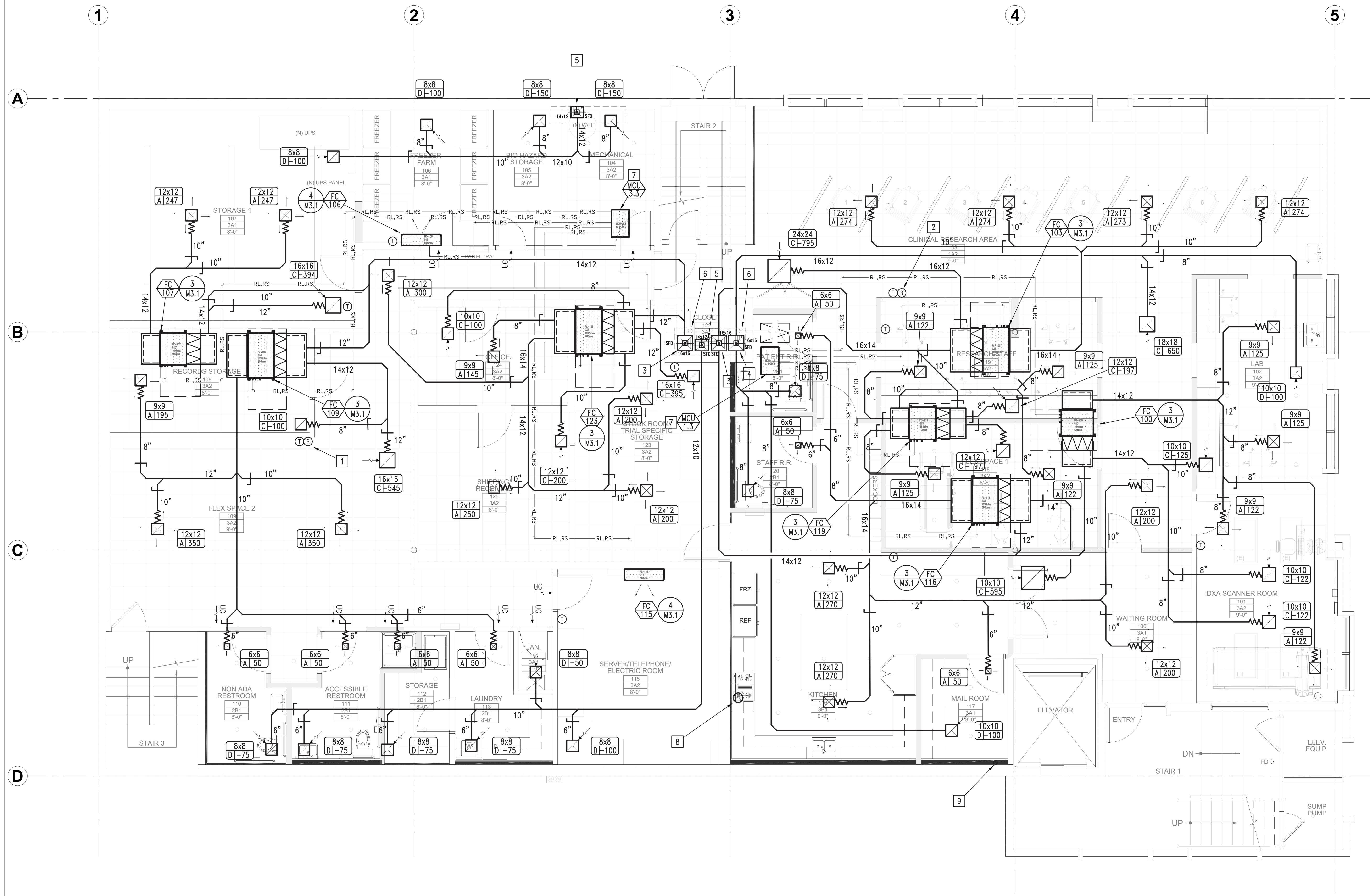
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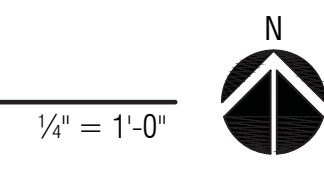
KEYNOTES

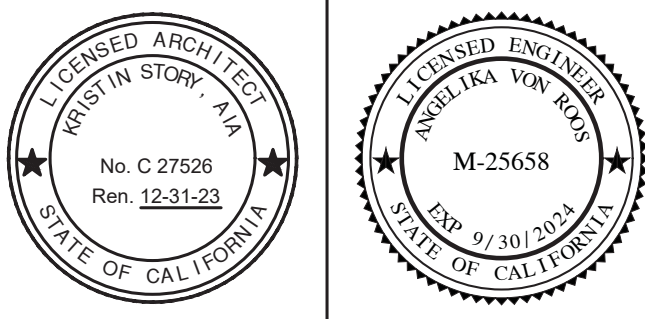
- REFRIGERANT MONITOR WITH CONTACTS FOR EXHAUST FAN CONTROL. INTERLOCK WITH EF-1.1. SEE DETAIL 1, SHEET M3.1.
- REFRIGERANT MONITOR WITH CONTACTS FOR EXHAUST FAN CONTROL. INTERLOCK WITH EF-1.2. SEE DETAIL 1, SHEET M3.1.
- 16x16 OUTSIDE AIR DUCT WITH SFD, UP EXISTING SHAFT TO ROOF.
- 16x16 EXHAUST DUCT WITH SFD, UP EXISTING SHAFT TO ROOF.
- 14x12 EXHAUST DUCT WITH SFD, UP EXISTING SHAFT TO ROOF.
- REFRIGERANT LINES UP EXISTING SHAFT TO HP ON ROOF. SEE M4.2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- ROUTE LINE SETS FROM MCU TO FAN COILS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- KITCHEN RANGE HOOD EXHAUST DUCT THROUGH ROOF. SIZE & INSTALLATION SHALL BE PER HOOD MANUFACTURER'S INSTRUCTIONS. MINIMUM AIRFLOW OR CAPTURE EFFICIENCY SHALL BE PER TITLE 24 TABLE 150.0-E AND TABLE 150.0-G.
- 4" DRYER VENT. TERMINATE TO EXTERIOR WITH BACKDRAFT DAMPER. EXHAUST DUCT FOR DOMESTIC DRYERS SHALL BE 4 INCHES MINIMUM AND SHALL NOT EXCEED A TOTAL LENGTH OF 14 FEET INCLUDING TWO 90 DEGREE ELBOWS. TWO FEET SHALL BE DEDUCTED FOR EACH 90 DEGREE ELBOW IN EXCESS OF TWO. IF MAXIMUM LENGTH IS EXCEEDED, PROVIDE DRYER BOOSTER FAN BY FANTECH, OR EQUAL. TERMINATE MIN 3 FEET FROM PROPERTY LINE AND OPENINGS INTO BUILDING. DRYER VENT SHALL BE METAL AND HAVE A SMOOTH INTERIOR SURFACE.

PROVIDE RATED PENETRATION FIRE STOPPING FOR ALL PIPING PENETRATING RATED ASSEMBLIES. PROVIDE U.L. LISTING FOR SYSTEM USED FOR EACH APPLICATION. SEE MECHANICAL DETAILS ON SHEET M3.3/M3.4.



BASEMENT MECHANICAL PLAN





AGENCY APPROVAL: CITY OF SANTA BARBARA.
PERMIT #:

MILESTONE DATES:
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PROJECT TITLE:

**SANSUM DIABETES
RESEARCH
INSTITUTE**
2219 BATH STREET
SANTA BARBARA, CA
93105

SHEET TITLE:
**First Floor
Mechanical Plan**
DATE: 04-22-24

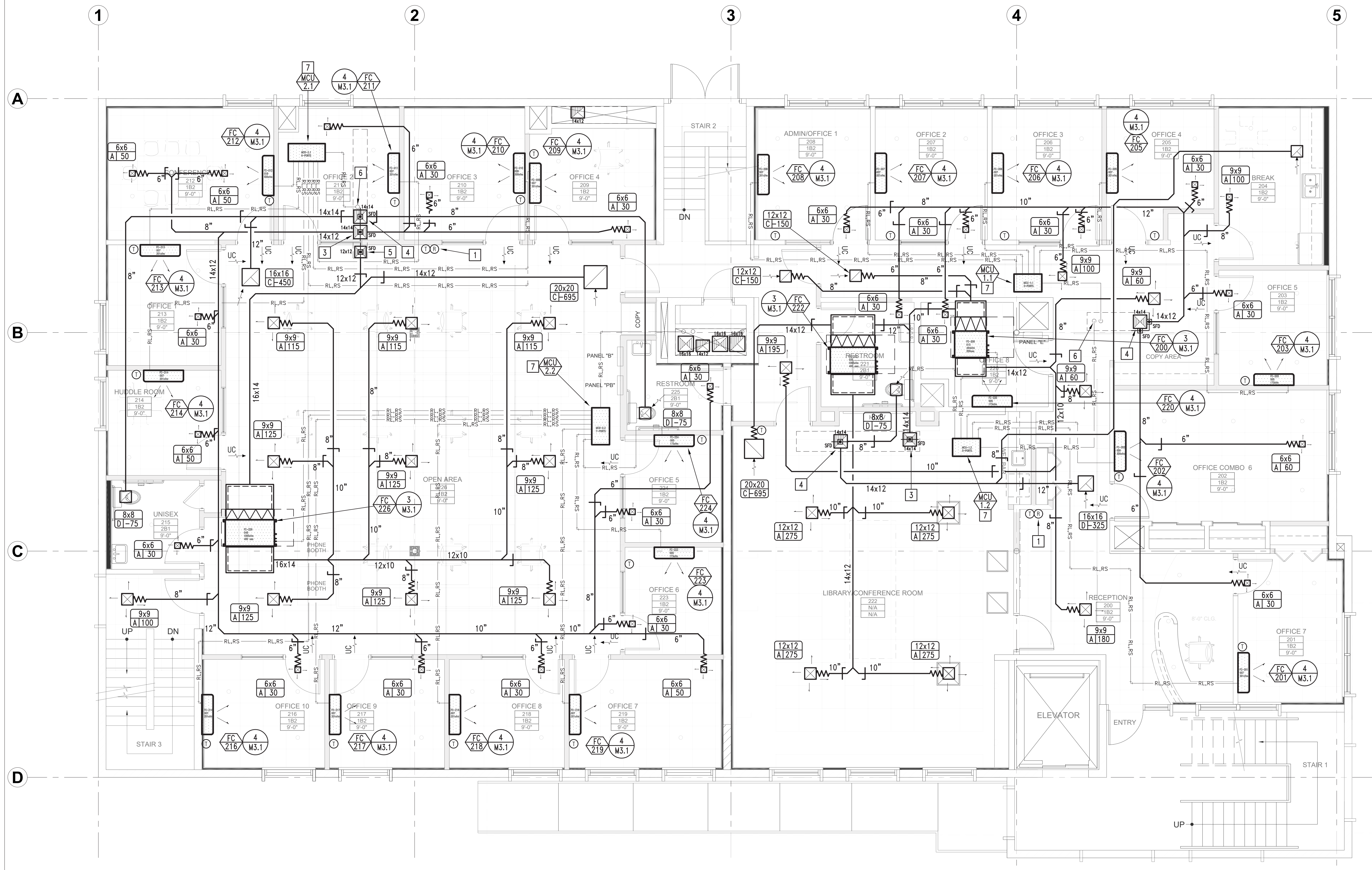
DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201

M-2.2

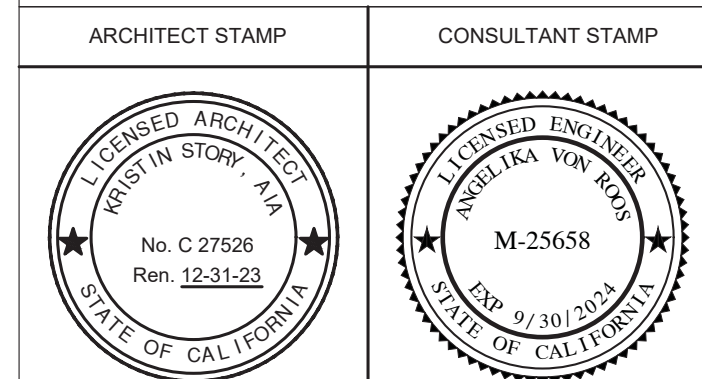
KEYNOTES

- 1 REFRIGERANT MONITOR WITH CONTACTS FOR EXHAUST FAN CONTROL. INTERLOCK WITH ERV-2.1. SEE DETAIL 1, SHEET M3.1.
- 2 REFRIGERANT MONITOR WITH CONTACTS FOR EXHAUST FAN CONTROL. INTERLOCK WITH ERV-2.2. SEE DETAIL 1, SHEET M3.1.
- 3 14x14 OUTSIDE AIR DUCT WITH SFD, UP EXISTING SHAFT TO ROOF.
- 4 14x14 EXHAUST DUCT WITH SFD, UP EXISTING SHAFT TO ROOF.
- 5 12x12 OUTSIDE AIR DUCT WITH SFD, UP EXISTING SHAFT TO ROOF.
- 6 REFRIGERANT LINES UP EXISTING SHAFT TO HP ON ROOF. SEE M4.2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 7 ROUTE LINE SETS FROM MCU TO FAN COILS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

PROVIDE RATED PENETRATION FIRE STOPPING FOR ALL PIPING PENETRATING RATED ASSEMBLIES. PROVIDE ULL LISTING FOR SYSTEM USED FOR EACH APPLICATION. SEE MECHANICAL DETAILS ON SHEET M3.3/M3.4.



FIRST FLOOR MECHANICAL PLAN
1/4" = 1'-0"



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93105

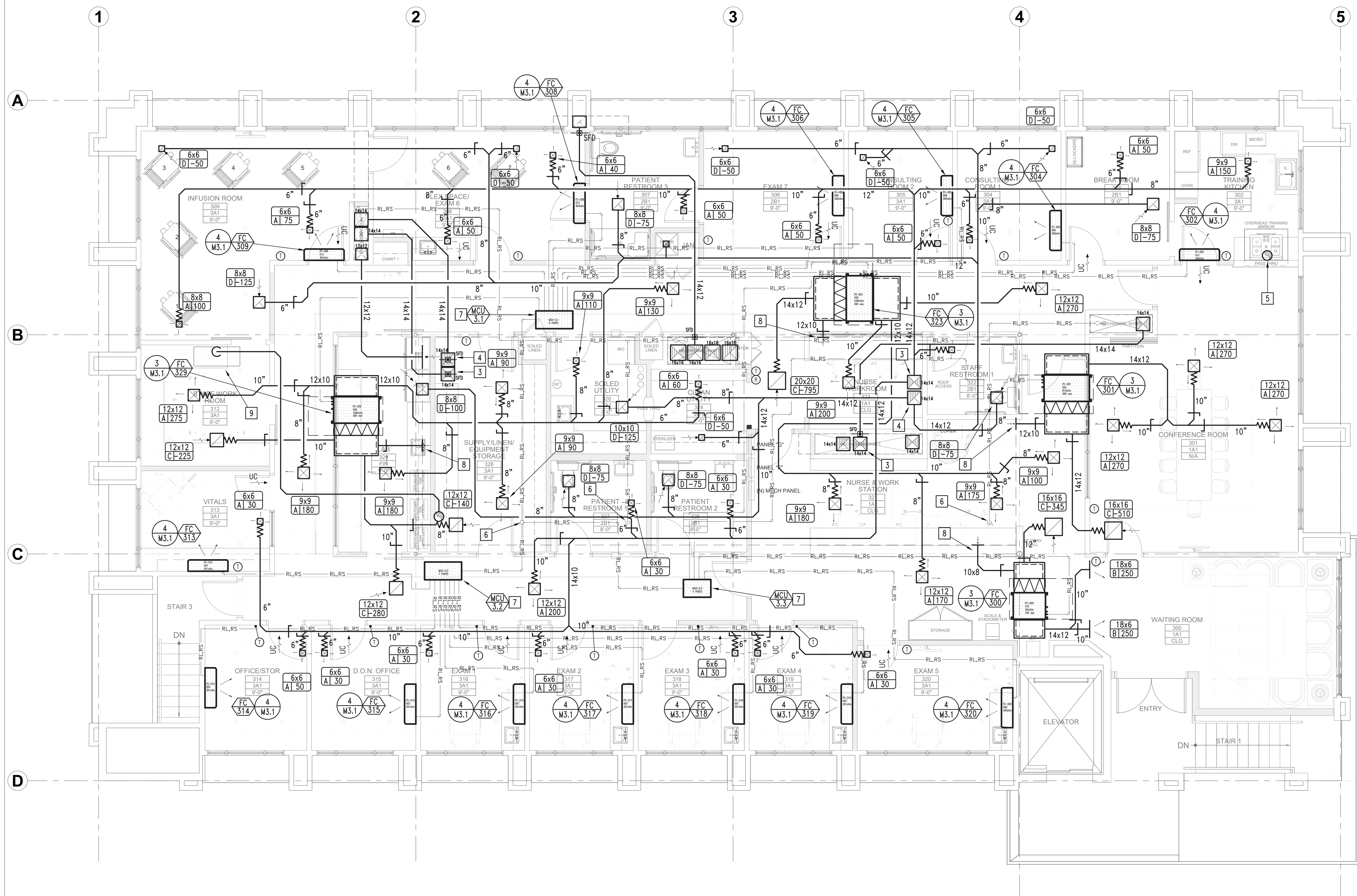
SHEET TITLE:
**Second Floor
Mechanical Plan**
DATE: 04-22-24
DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201

M-2.3

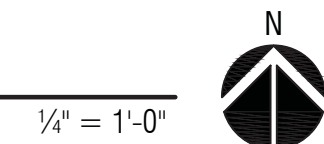
KEYNOTES

- 1 REFRIGERANT MONITOR WITH CONTACTS FOR EXHAUST FAN CONTROL. INTERLOCK WITH ERV-2.1. SEE DETAIL 1, SHEET M3.1.
- 2 REFRIGERANT MONITOR WITH CONTACTS FOR EXHAUST FAN CONTROL. INTERLOCK WITH ERV-2.2. SEE DETAIL 1, SHEET M3.1.
- 3 14x14 OUTSIDE AIR DUCT WITH SFD, UP EXISTING SHAFT TO ROOF.
- 4 14x14 EXHAUST DUCT WITH SFD, UP EXISTING SHAFT TO ROOF.
- 5 KITCHEN RANGE HOOD EXHAUST DUCT TO ROOF.
- 6 REFRIGERANT LINES UP EXISTING SHAFT TO HP ON ROOF. SEE M4.2. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 7 ROUTE LINE SETS FROM MCU TO FAN COILS. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- 8 OUTSIDE AIR DUCT THROUGH MECHANICAL WELL WALL TO OUTSIDE AIR INTAKE LOUVER. SEE M2.4 FOR CONTINUATION.
- 9 LAB HOOD. SEE ARCHITECT FOR SPECIFICATION AND VENTILATION REQUIREMENTS.

PROVIDE RATED PENETRATION FIRE STOPPING FOR ALL PIPING PENETRATING RATED ASSEMBLIES. PROVIDE U.L. LISTING FOR SYSTEM USED FOR EACH APPLICATION. SEE MECHANICAL DETAILS ON SHEET M3.3/M3.4.



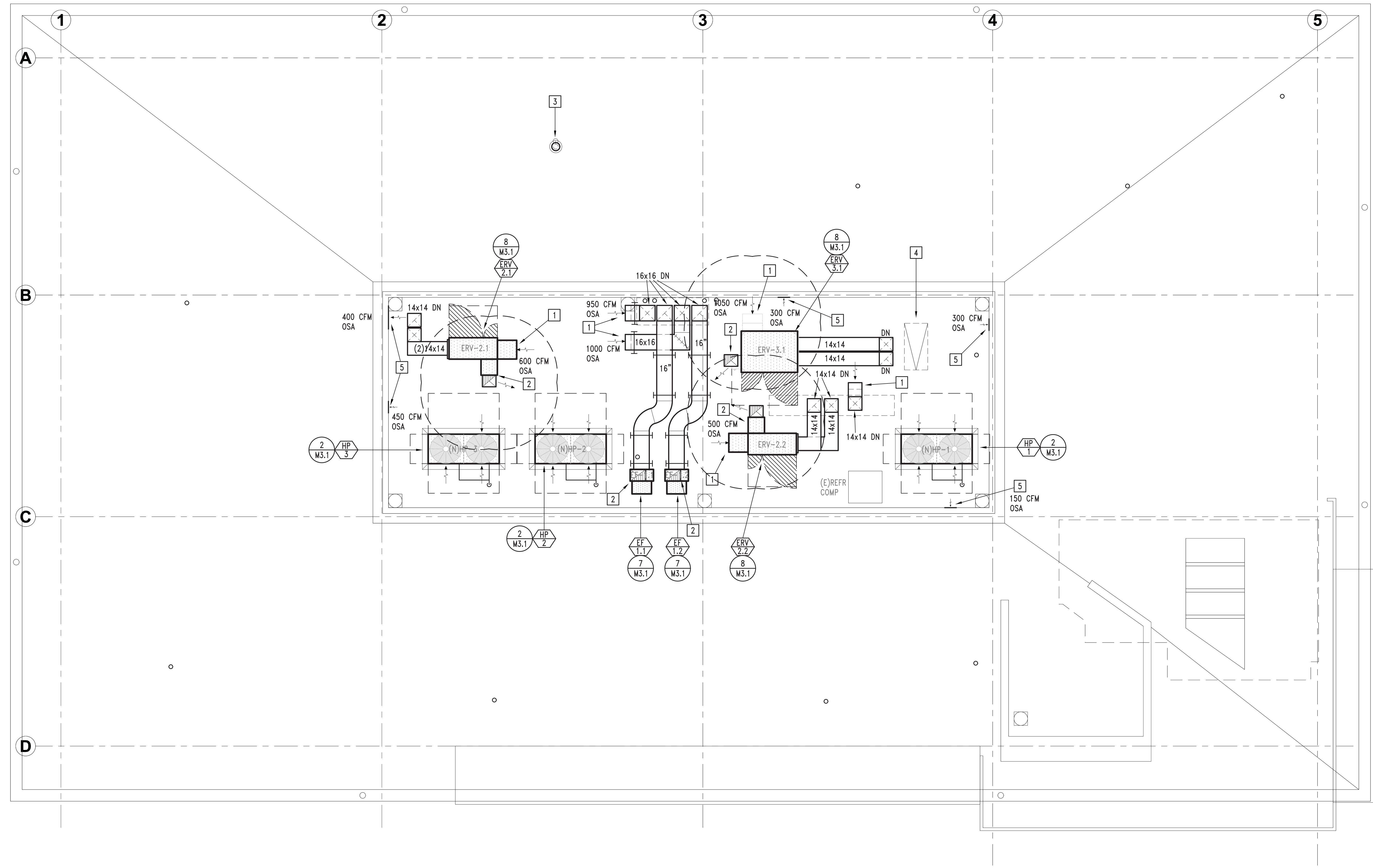
SECOND FLOOR MECHANICAL PLAN



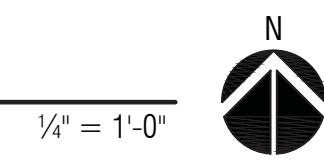
KEYNOTES

- 1 OUTSIDE AIR INTAKE WITH BIRDSCREEN. MAINTAIN 10 FOOT HORIZONTAL OR 3 FOOT VERTICAL SEPARATION FROM EXHAUST AND PLUMBING OUTLETS PER CMC 311.3.
- 2 EXHAUST OUTLET. EXTEND DISCHARGE TO TOP OF MECHANICAL WELL.
- 3 CONCENTRIC VENT FOR WATER HEATER IN FIRST FLOOR MECHANICAL ROOM. SIZE AND INSTALLATION SHALL BE PER MANUFACTURER'S INSTRUCTIONS AND PER NFCC, NFPA, AND CMC REQUIREMENTS.
- 4 EXISTING MECHANICAL WELL ACCESS.
- 5 OUTSIDE AIR INTAKE LOUVER. METALAIR OAL2F OR EQUAL. 400 FPM FACE VELOCITY.

PROVIDE RATED PENETRATION FIRE STOPPING FOR ALL PIPING PENETRATING RATED ASSEMBLIES. PROVIDE U.L. LISTING FOR SYSTEM USED FOR EACH APPLICATION. SEE MECHANICAL DETAILS ON SHEET M3.3/M3.4.



MECHANICAL ROOF PLAN



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Santa Barbara, Ca 93101
p: 805.962.7390
f: 805.962.7768
e: jason@studioengineersinc.com
w: www.studioengineersinc.com

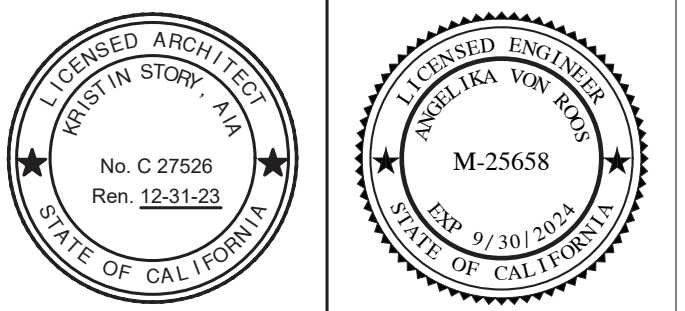


Alan Noelle Engineering
1616 Anacapa Street Santa Barbara, CA 93101
phone: 805.563.5444
fax: 805.456.5901 alan@aneng.com
Electrical Engineering Lighting Design



315 E. Canon Perdido
Santa Barbara, CA 93101
Tel: (805) 957-6822

ARCHITECT STAMP CONSULTANT STAMP



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2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:

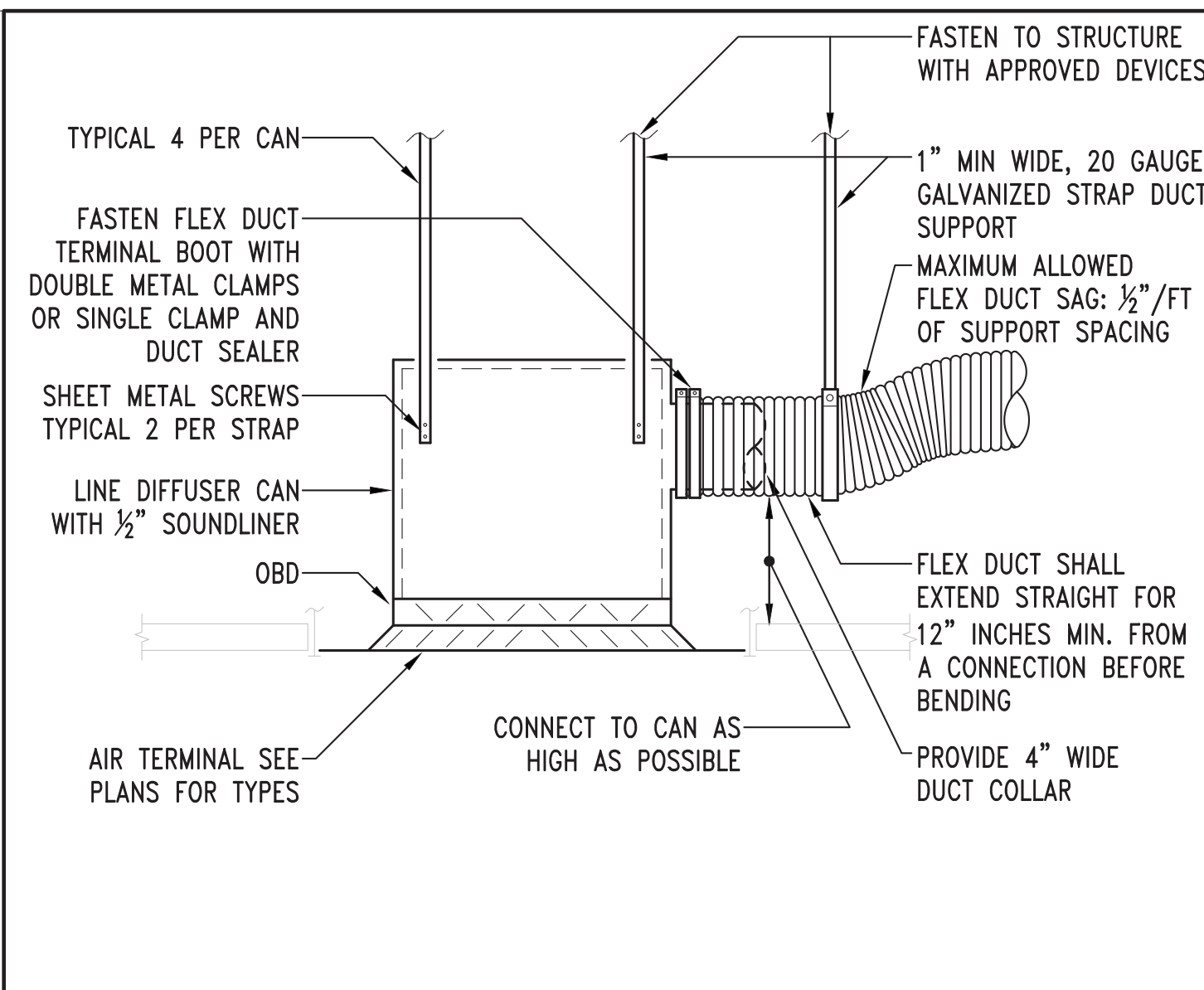
Mechanical Roof Plan

DATE: 04-22-24

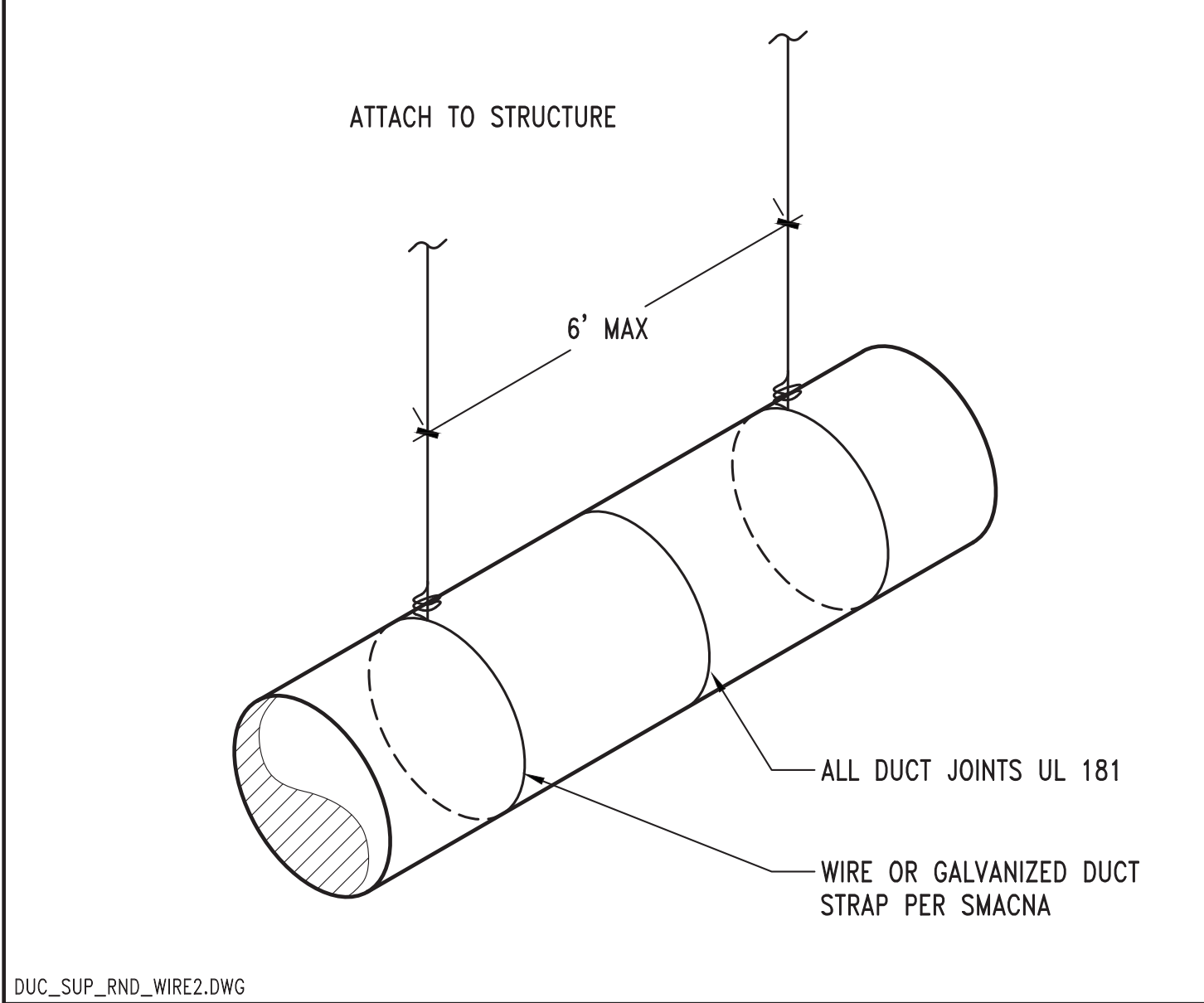
DRAWN BY: TDH, LLA

JOB NUMBER: SAN-2201

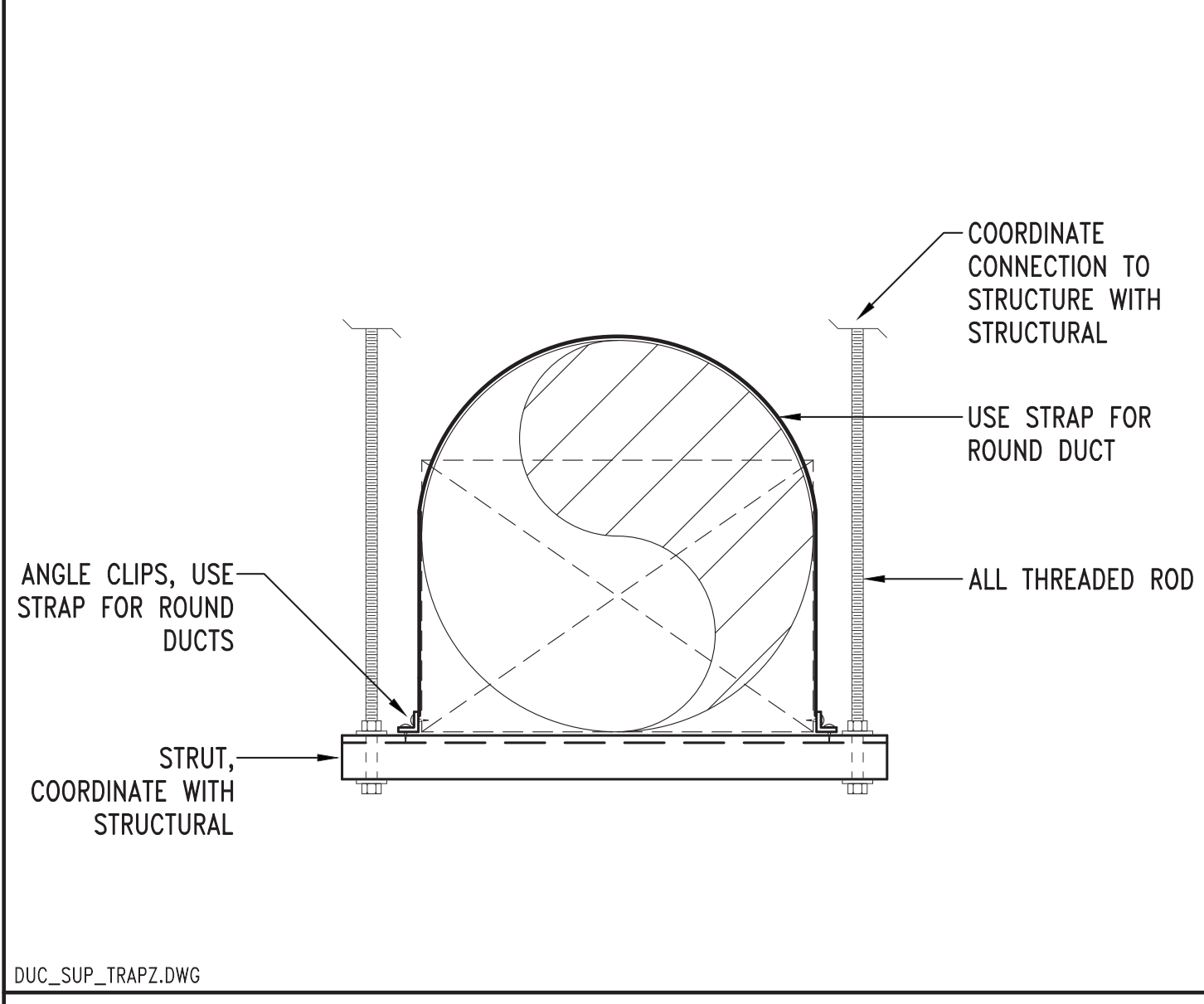
M-2.4



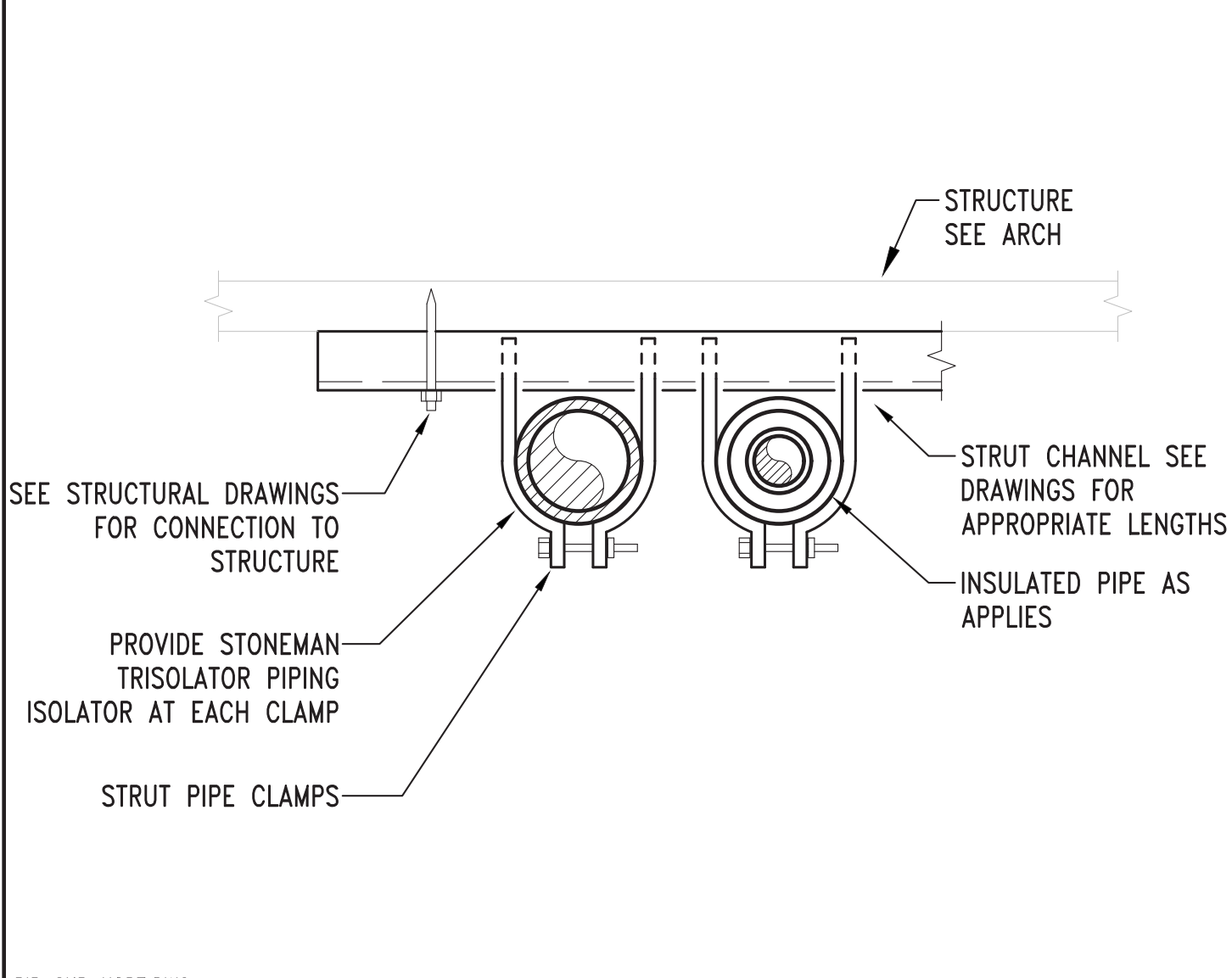
DIFFUSER CAN WITH FLEX DUCT NTS 9



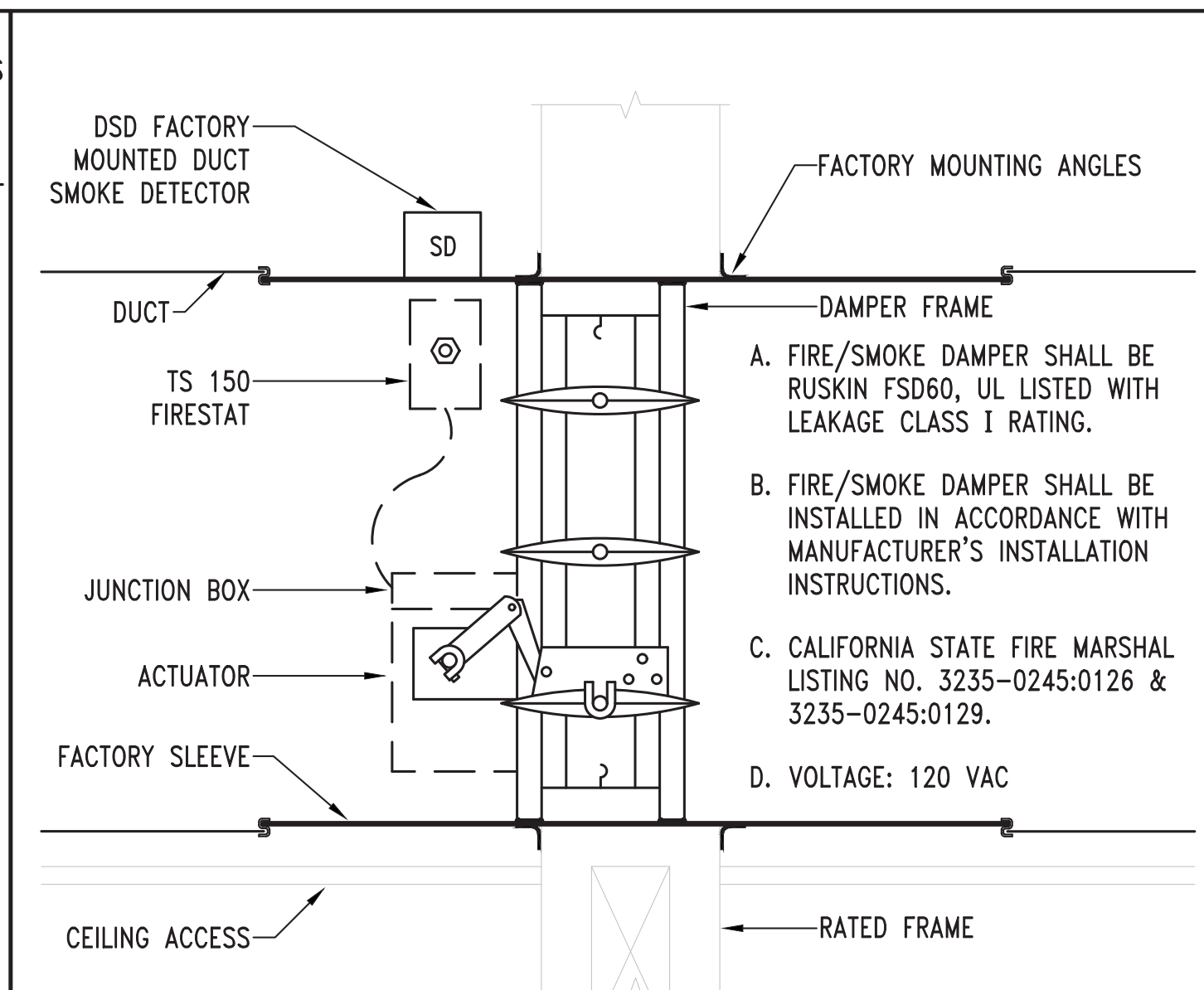
ROUND DUCT SUPPORT NTS 10



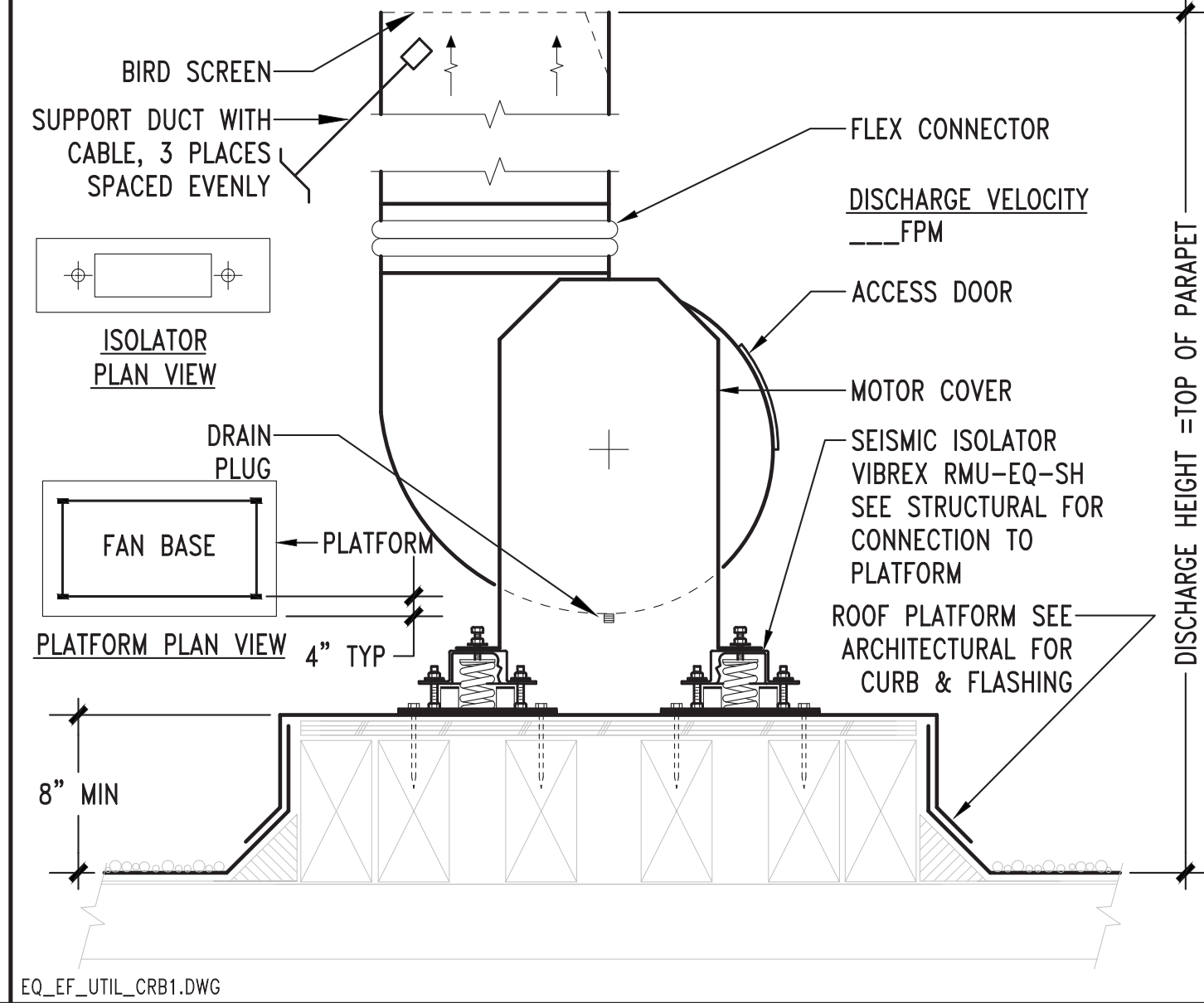
DUCT TRAPEZE HANGER NTS 11



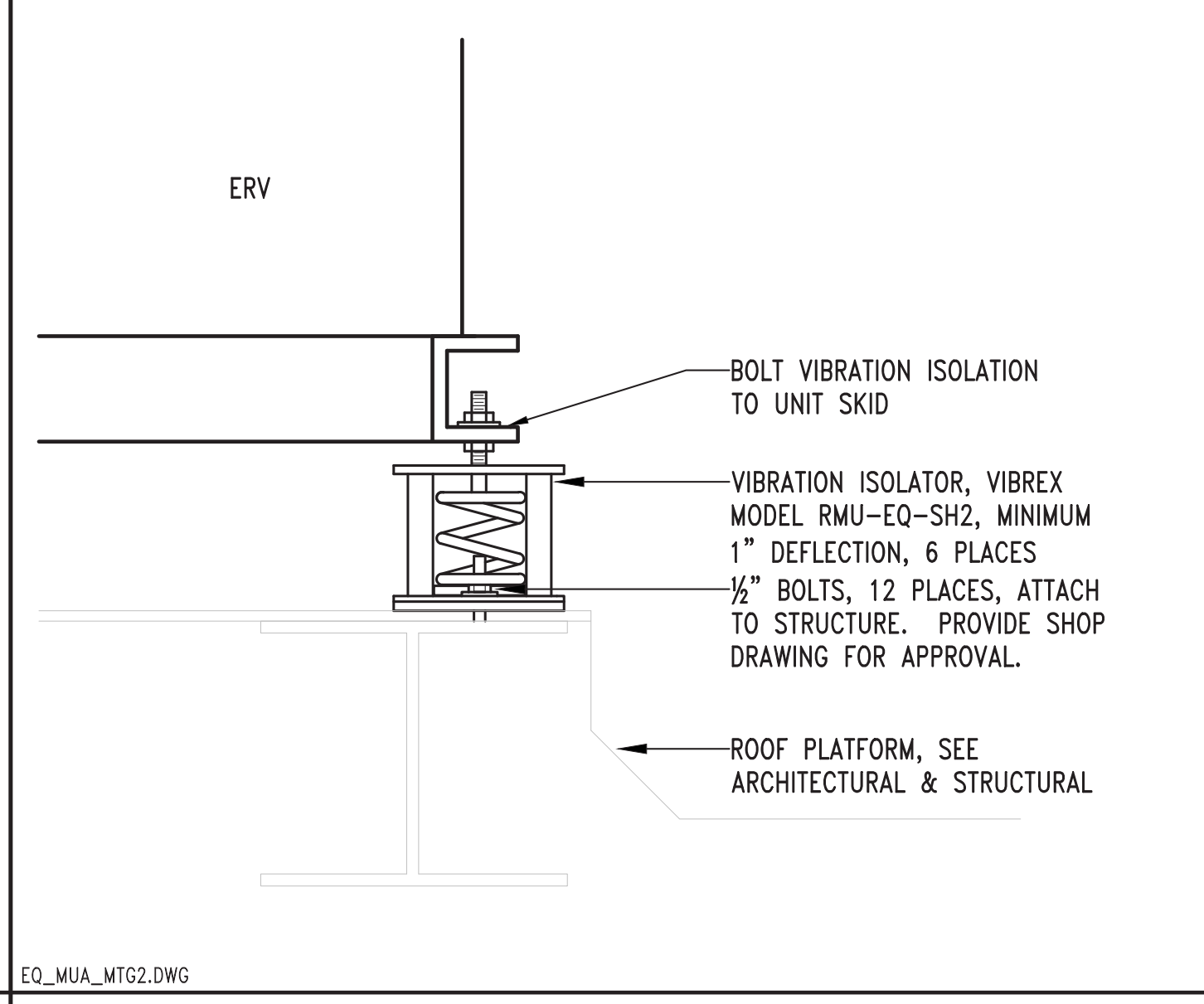
HORIZONTAL PIPE SUPPORT NTS 12



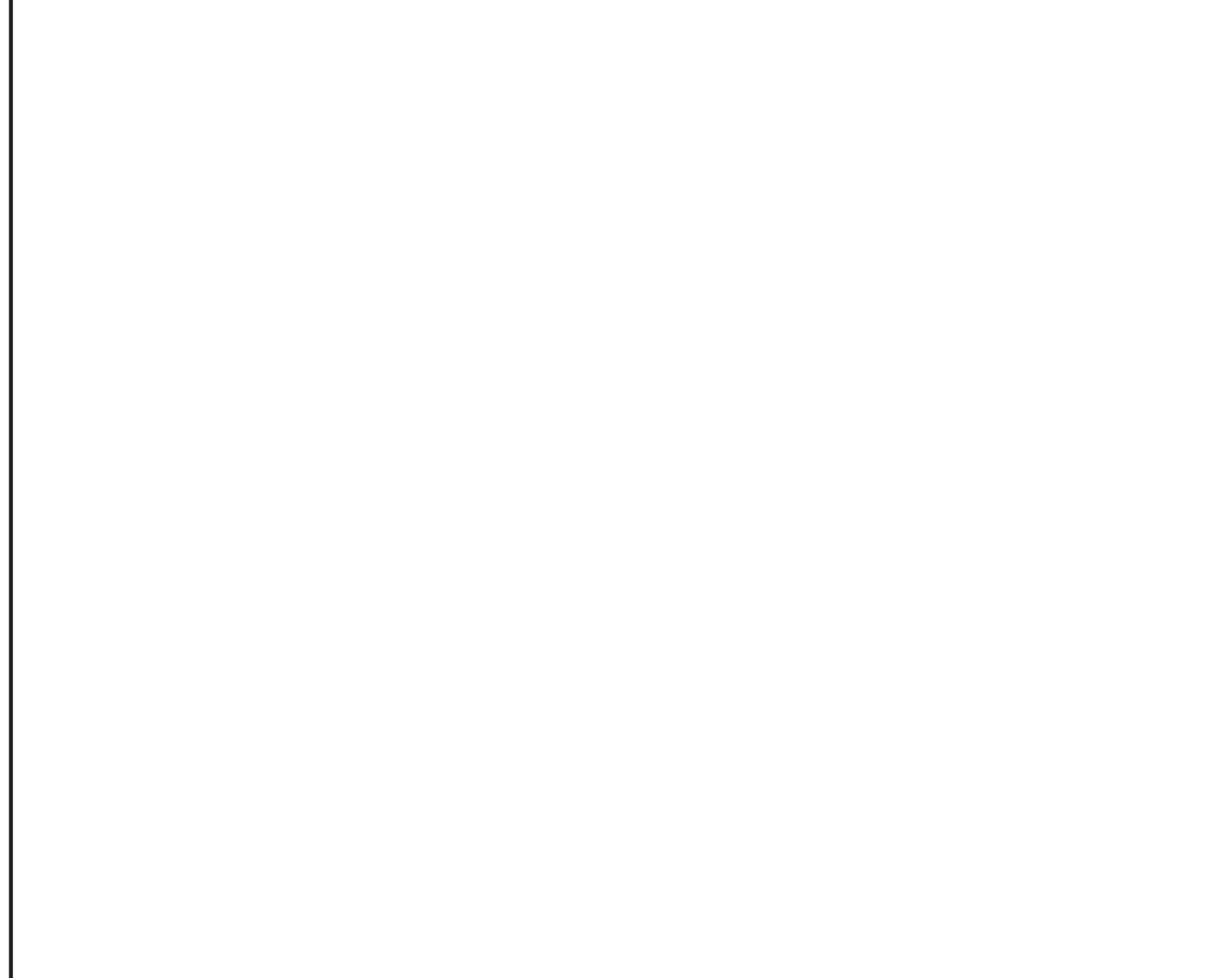
FIRE/SMOKE DAMPER NTS 6



UTILITY FAN NTS 7



ERV MOUNTING NTS 8



HORIZONTAL FIRE/SMOKE DAMPER NTS 5

Refrigerant Detector for Occupied Spaces MVR-300

FEATURES

- Fits in standard electrical boxes
- Low profile flush mount
- Two relays and Modbus Communications
- Alarm options including: LED, buzzer, two levels, configurable delay and fail-safe
- Refrigerant specific sensor
- Self diagnostics and simple field calibration
- Unique plug-in field replaceable pre-calibrated sensor

BENEFITS

- Easy to install
- Aesthetically non-intrusive appearance
- Nearly building management & initiate counter measures
- Alert occupants and remotely inform building management of alarm location for rapid response as required
- Enhances safety and minimizes refrigerant loss
- Easy to maintain
- Low cost of ownership

DESCRIPTION

The MVR-300 detector is specifically designed to provide continuous monitoring for refrigerants associated with high-efficiency, high-volume refrigerant cooling and heating systems, such as VRF/VAV (Variable Refrigerant Flow/Variable Refrigerant Volume) systems. Typical applications include hotels, dormitories, hospitals, office buildings, and apartment buildings.

The MVR-300 audible and visual alarm alerts occupants and simultaneously communicate to Building Management Systems/Building Automation Systems (BMS/BAS). Two on-board relays can be used to close valves, activate alarm devices and exhaust fans or initiate emergency calls to rescue teams.

The on-board Modbus RTU interface provides real-time information about refrigerant concentrations, status and settings. It also enables custom configuration of the MVR-300 to any application specific requirements using multiple Modbus registers.

The MVR-300 is designed for easy installation and simple maintenance.

Important Note: Long refrigerant leaks into occupied spaces can reach concentrations that pose a significant risk to the occupants. The MVR-300 is not designed to be used as the sole safety device for this risk. Safety of the occupants also must take a system designed approach that includes things such as ventilation, detection, early warning, mitigation and design redundancy.

HOW TO CONTACT US:
 Bacharach US Customer Service: +1 724 334 5000
 Bacharach EU Customer Service: +353 1 284 6398
 www.mybacharach.com
 MVR-300 is a trademark of Bacharach, Inc.

mybacharach.com

For more information about the MVR-300 and other Bacharach products see here.

ORDERING INFORMATION

REFRIGERANT	P/N	LOW ALARM*	COMMERCIAL HIGH ALARM*	REFRIGERATION RANGE
R-410a	6203-0001	500 ppm	2,000 ppm	2,500 ppm
	6203-0002	1,000 ppm	2,000 ppm	5,000 ppm
R-407c	6203-0003	2,000 ppm	4,000 ppm	10,000 ppm
	6203-0011	500 ppm	2,000 ppm	2,500 ppm
R-404a	6203-0012	1,000 ppm	2,000 ppm	5,000 ppm
	6203-0013	2,000 ppm	4,000 ppm	10,000 ppm
R-32	6203-0021	500 ppm	2,000 ppm	2,500 ppm
	6203-0022	1,000 ppm	2,000 ppm	5,000 ppm
R-32	6203-0041	500 ppm	2,000 ppm	2,500 ppm
	6203-0042	1,000 ppm	2,000 ppm	5,000 ppm
R-32	6203-0043	2,000 ppm	4,000 ppm	10,000 ppm

*Factory default; can be changed through Modbus. Recommended 6 month testing/recalibration

TECHNICAL DATA

PRODUCTS ATTRIBUTES	DESCRIPTION
Detectable Gases	R-410a, R-407c, R-404a, R-32
Measuring Ranges	2,500 ppm; 5,000 ppm; 10,000 ppm
Housing	Flush mount, white ABS. Fits in most 2-gang electrical back-boxes
Size (L x W x D, approx.)	6" x 4.1" x 1.75" (150 x 105 x 45 mm) including bezel
Protection	Indoor: IP40, NEMA 1
Weight (approx.)	8 oz (230 g)
Power	100 to 240 VAC, 50/60 Hz, 4 W max.
Indicator	Tri-color LED: green, amber, red
Buzzer	80 dB at 12" (30 cm)
Relay	Two SPDT: low alarm and high alarm / fault, normal or fail-safe; configurable 0 to 15 minutes; configurable 0, 5, 10, 15
Alarm Delay	Relay: 3-core cable, 18 to 20 AWG (0.5 to 1.0 mm ²) Modbus: 2-core twisted pair shielded cable 18 to 24 AWG
Wiring	Baud Rate: 9,600 or 19,200; configurable
Modbus RTU	Operating Temperature: 32 to 130°F (0 to 55°C) Storage Temperature: 5 to 100°F (-20 to 40°C) Humidity: 5 to 90% RH, non-condensing Pressure: 23.6 to 32.5 inch of Hg (800 to 1,100 hPa)
Environmental Conditions	0 to 6,560 ft. (2,000 m) altitude
Elevation	2 year minimum life with recommended 6 month testing and/or recalibration
Sensor life	CE, UL/CSA/IEC/EN 61010-1
Approvals	

ARCHITECT STAMP

CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA, PERMIT #:

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REFRIGERANT MONITOR NTS 1

NOTE: PROVIDE SECONDARY DRAIN PAN PER MFR'S INSTRUCTIONS, WITH WATER LEVEL DETECTING DEVICE, "ACS" SERIES BY LITTLE GIANT, OR EQUAL

ALLOW CLEARANCE BESIDE UNIT FOR MAINTENANCE

CONCRETE UNIT MOUNTING

CONDENSING UNIT MOUNTING NTS X

PRE-PUNCHED MOUNTING HOLES. REFER TO MANUFACTURER FOR EXACT CONFIGURATION

MOUNTING BRACKET - FRONT VIEW

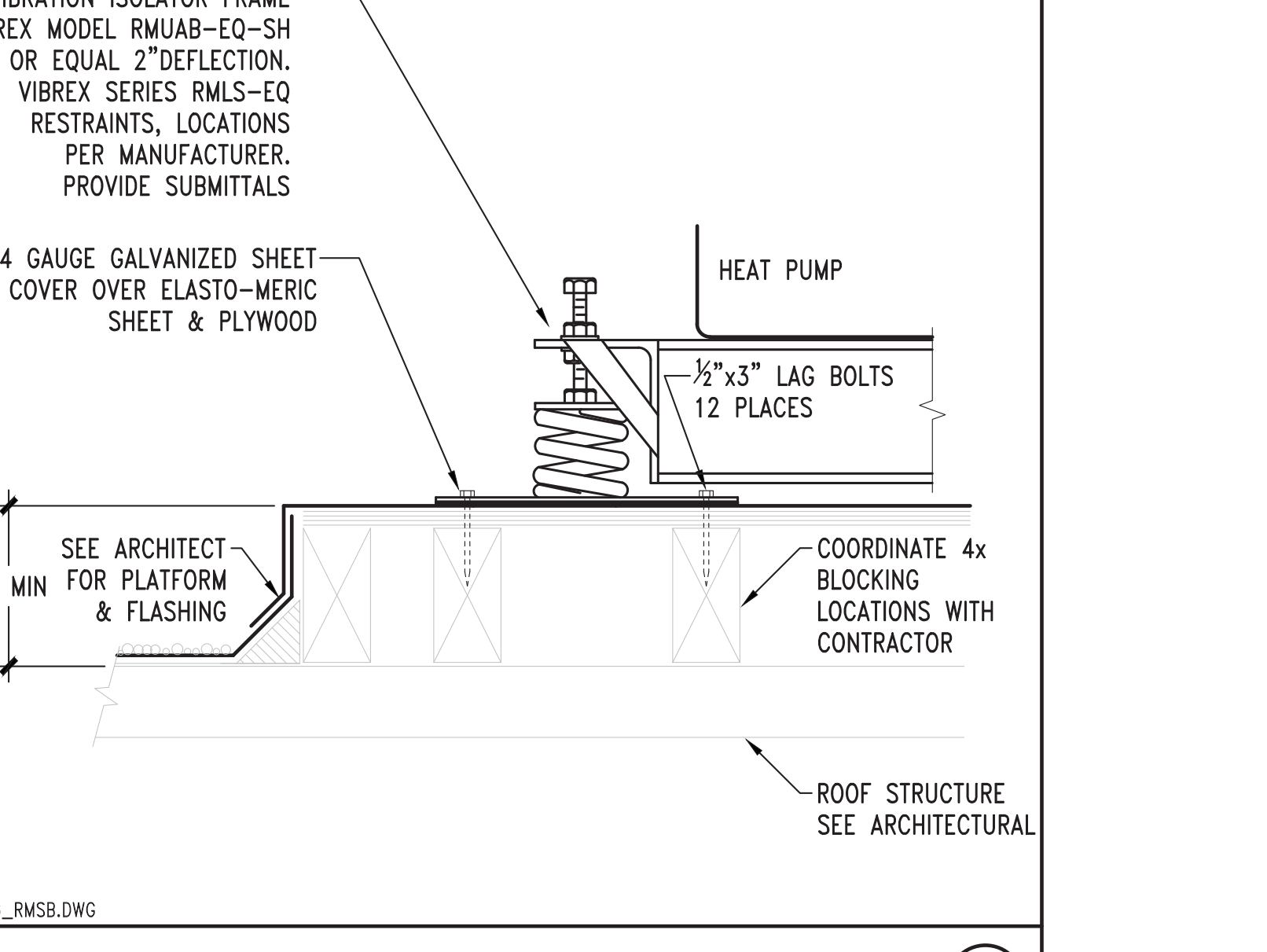
STRUCTURE SEE ARCHITECTURAL

MOUNTING WALL BRACKET AS SUPPLIED BY SAMSUNG

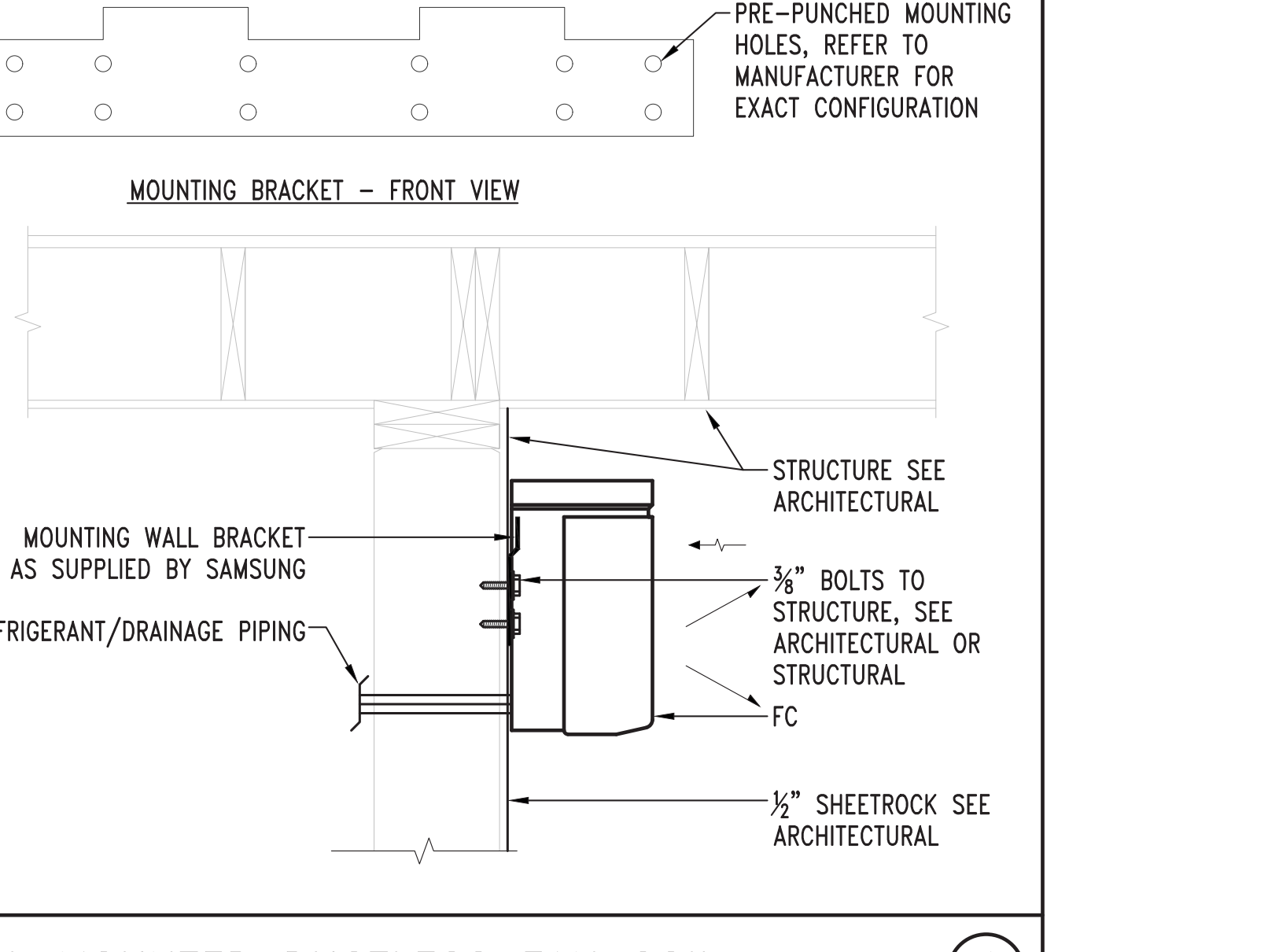
REFRIGERANT/DRAINAGE PIPING

3/8\"/>

HORIZONTAL FAN COIL MOUNTING NTS 3



CONDENSING UNIT MOUNTING NTS X



WALL MOUNTED DUCTLESS FAN COIL NTS 4

HORIZONTAL FIRE/SMOKE DAMPER NTS 5

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 Electrical Engineering Lighting Design

MEC
 MECHANICAL ENGINEERING CONSULTANTS INC.
 315 E. Canon Perdido
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 Tel: (805) 957-6822

ARCHITECT STAMP

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 SANTA BARBARA, CA 93105

SHEET TITLE:

Details

DATE: 04-22-24
 DRAWN BY: TDH, LLA
 JOB NUMBER: SAN-2201

M-3.1

Drawing name: E:\SAN-Sansum\SAN2201_SanDiabetes\SAN2201-Dwg\SAN2201-M3-1.dwg
 PLOT DATE: Apr 22, 2024, 9:55am
 PLOT BY: Tom

System No. F-A-5015
F Rating — 2 Hr
T Ratings — 1/2 and 3/4 Hr (See Item 3)

1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
1A. Floor Assembly - (Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series Designs in the Fire Resistance Directory and as summarized below:
A. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
B. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
2. Firestop Device* — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions with a max 2 in. (51 mm) projection above the top surface of the concrete.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680-75/2.5"N, CP 680-110/4"N, CP 680-160/6"N, CP 682-75/2.5", CP 682-110/4", CP 680-M 2", CP 680-M 3", CP 680-M 4", CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6"
3. Through Penetrants — One metallic pipe, conduit or tubing to be installed within the firestop device. Pipe, conduit or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe, conduit or tubing may be used:
A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
C. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
The firestop device and metallic penetrant shall be sized as follows:

Nom Pipe Diam, in. (mm)	Nom Thick. Of Pipe Insul., in. (mm)	Firestop Device	T-Rating, Hr
1/2 (13)	1 (25)	CP 680-75/2.5"N, CP 682-75/2.5"CP 680-M 2", CP 680-P 2"	3/4
1 (25)	3/4 (19)	CP 680-75/2.5"N CP 680-P 3"	1/2
1 (25)	1 (25)	CP 680-M 3", CP 680-P 3"	1/2
1 (25) (see Item 5)	1 (25)	CP 682-110/4"CP 680-M 4"	1/2
2 (51)	1 (25)	CP 680 110/4"N, CP682 110/4"CP 680-M 4", CP 680-P 4"	1/2
2 (51)	3/4 (19)	CP 680-100/4"NCP 680-P 4"	1/2
4 (102)	3/4 (19)	CP 680-160/6"NCP 680-P 6	1/2

4. Tube Insulation - Plastics* — Nom 3/4 or 1 in. (19 or 25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.
See Plastics* (GMF22) Category in the Plastics Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.
5. Packing Material — (Not Shown) - When using a 1 in. (25 mm) diam pipe with 1 in. (25 mm) thick AB/PVC pipe insulation in a 4 in. (102 mm) device, and a min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation shall be firmly packed into top of device, flush with the top of the device.
*Bearing the UL Classification Mark

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 14, 2006

System No. F-A-5016
F Rating — 3 Hr
T Ratings — 0, 3/4, 1, 3 Hr (See Item 3)

1. Floor Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
1A. Floor Assembly - (Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series Designs in the UL Fire Resistance Directory and as summarized below:
A. Concrete — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. Firestop Device* — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions with a max 2 in. (51 mm) projection above the top surface of the concrete.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680-110/4"N, CP 680-160/6"N, CP 682-75/2.5", CP 682-110/4", CP 680-M 2", CP 680-M 3", CP 680-M 4", CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6"
3. Through Penetrants — One metallic pipe or tubing to be installed within the firestop device. Pipe or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe or tubing may be used:
Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) steel pipe.
Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper tubing.
Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
The firestop device and metallic penetrant shall be sized as follows:

Nom Pipe Diameter*	Nom Pipe Cover-in. (mm)	Firestop	T Rating-Hr
1/2 in. (13 mm)	1 (25)	CP 680-75/2.5"N, CP 682-75/2.5" CP 680-M 2", CP 680-P 2"	3
1 in. (25 mm)	1 (25)	CP 680-110/4"N, CP 682-110/4" CP 680-M 3", CP 680-P 3", CP 680-M 4", CP 680-P 4"	3/4
2 in. (51 mm)	3/4 (19)	CP 680-110/4"N CP 680-160/6"N	1
4 in. (102 mm)	3/4 (19)	CP 680-160/6"N CP 680-P 6"	3/4

* - When pipe diameter smaller than shown in above table is used, the insulated pipe shall be installed in conjunction with Item 5 and the T Ratings are 0 hr.
4. Tube Insulation - Plastic* — Nom 3/4 or 1 in. (19 or 25 mm) thick acrylonitrile butadiene/polyvinyl chloride (AB/PVC) flexible foam furnished in the form of tubing.
See Plastics* (GMF22) Category in the Recognized Component Directory for names of manufacturers. Any Recognized Component tube insulation material meeting the above specifications and having a UL94 Flammability Classification of 94-5VA may be used.
5. Packing Material — (Not Shown) When pipe sizes are less than those shown in the table in Item 3, min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool insulation shall be firmly packed to the fullest extent possible within the device flush with top surface of device.
*Bearing the UL Classification Mark

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System No. F-A-5017
F Rating — 2 Hr
T Ratings — 3/4 and 1 Hr (See Item 3)

1. Floor Assembly — Min 2-1/2 in. (38 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
1A. Floor Assembly - (Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series Designs in the Fire Resistance Directory and as summarized below:
A. Concrete — Min 2-1/2 in. (38 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. Firestop Device* — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete floor assembly in accordance with accompanying installation instructions with a max 2 in. (51 mm) projection above the top surface of the concrete.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680-75/2.5"N, CP 680-110/4"N, CP 680-160/6"N, CP 682-75/2.5", CP 682-110/4", CP 680-M 2", CP 680-M 3", CP 680-M 4", CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6"
3. Through Penetrants — One metallic pipe or tubing to be installed within the firestop device. Pipe or tubing to be rigidly supported on both sides of floor assembly. The following types of pipe or tubing may be used:
A. Steel Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
C. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
The firestop device, metallic penetrant and pipe covering shall be sized as follows:

Nom Pipe Diam, in. (mm)	Nom Pipe Covering Thickness, in. (mm)	Firestop Device	T Rating, Hr
1/2 (13)	1 (25)	CP 680-75/2.5"N, CP 682-75/2.5" CP 680-M 2", CP 680-P 2"	3/4
1 (25)	1 (25)	CP 680-110/4"N, CP 682-110/4" CP 680-M 3", CP 680-P 3", CP 680-M 4", CP 680-P 4"	3/4
1 (25) (See Item 5)	1-1/2 (38)	CP 682-110/4" CP 680-M 4", CP 680-P 4"	3/4
2 (51)	1 (25)	CP 680-110/4"N, CP 682-110/4" CP 680-M 4", CP 680-P 4"	1
2 (51)	2 (51)	CP 680-160/6"N CP 680-P 6"	3/4
4 (102)	1 (25)	CP 680-160/6"N CP 680-P 6"	3/4

4. Pipe Covering* — Nom 1, 1-1/2 and 2 in. (25, 38 and 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units, jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied SSL tape. Transverse joints secured with metal fasteners or with built tape supplied with the product.
See Pipe and Equipment Covering-Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
5. Packing Material — When using a 1 in. (25 mm) diam pipe with 1-1/2 in. (38 mm) thick glass fiber pipe insulation in a 4 in. (102 mm) device, a min 2 in. (51 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation shall be firmly packed into top of device, flush with the top of the device.
*Bearing the UL Classification Mark

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System No. F-A-2053
F Rating — 2 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq ft (See Item 3)
L Rating At 400 F — Less Than 1 CFM/Sq ft (See Item 3)
W Ratings — Class 1 (See Items 3, 4 and 4A)

1. Floor Assembly — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
1A. Floor Assembly - (Optional - Not Shown) — The fire rated unprotected concrete and steel floor assembly shall be constructed of the materials and in the manner specified in the individual D900 Series Designs in the UL Fire Resistance Directory and as summarized below:
A. Concrete — Min 2-1/2 in. (64 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete.
B. Steel Floor and Form Units* — Composite or non-composite max 3 in. (76 mm) deep galv steel fluted units as specified in the individual Floor-Ceiling Design.
2. Firestop Device* — Cast in place firestop device permanently embedded during concrete placement or grouted in concrete assembly in accordance with accompanying installation instructions. The 3, 4 and 6 in. devices may extend a max 2 in. (51 mm) above the top surface of the concrete. The max extension above the slab for the 2 and 2.5 in. devices is not restricted.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 680-75/2.5"N, CP 680-110/4"N, CP 680-160/6"N, CP 680-P 2", CP 680-P 3", CP 680-P 4", CP 680-P 6"
3. Through Penetrants — One nonmetallic pipe or conduit to be installed within the firestop system. Pipe or conduit to be rigidly supported on both sides of floor assembly. For W Rating with Water Barrier Module, pipe shall be installed from bottom of device. The following types and sizes of nonmetallic pipes or conduits may be used:
A. Polyvinyl Chloride (PVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 solid or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 6 in. (152 mm) diam (or smaller) SDR11 or SDR13.5 CPVC pipe for use in closed (process or supply) piping systems.
C. Rigid Nonmetallic Conduit — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 PVC conduit installed in accordance with the National Electrical Code (NFPA No. 70).
The firestop devices and nonmetallic penetrants shall be sized as follows:

Nom Pipe Diameter	Firestop Device
1/2 in. to 2 in. (19 mm to 51 mm)	CP 680-75/2.5"N
3 in. (76 mm)	CP 680-P 2"
3 in. to 4 in. (76 mm to 102 mm)	CP 680-110/4"N
6 in. (152 mm)	CP 680-P 4" CP 680-160/6"N CP 680-P 6"

++ L Rating applies only to CP 680-P devices and only when the nom diam of pipe equals size of device (2 in. diam pipe in 2" device etc.) L Rating does not apply to CP 680N devices.
4. Firestop Device* — (Not shown) - Top seal plug for use with CP 680-75/2.5"N devices and nom pipe or conduit sizes 3/4 in. (19 mm) to 2 in. (51 mm), installed in accordance with the manufacturer's instructions. The top seal plug is optional for nom 1-1/2 in. (38 mm) pipes and conduits. Top seal plugs are required for all pipes and conduits less than nom 1-1/2 in. (38 mm). W Rating applies only when the CPS or IPS Top Seal Plugs are used.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CPS and IPS Top Seal Plugs
4A. Firestop Device* - Water Barrier Module — (Optional, Not Shown) - Applies to nom 2", 3" and 4" water barrier modules used in combination with the CP 680-P 2", CP 680-P 3" and CP 680-P 4" devices, respectively, and supplied by device manufacturer. Module is threaded onto top of device. W Rating applies only when water barrier module is used.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — Water Barrier Module
*Bearing the UL Classification Mark
*Bearing the UL Listing Mark

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System No. C-AJ-1421
F Rating - 2 and 3 Hr (See Item 4B)
T Rating - 0 Hr

1. Floor or Wall Assembly - Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in. (152 mm).
See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Metallic Sleeve - (Optional) Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Through-Penetrant - One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, tube or conduit and periphery of opening shall be min 0 in. (0 mm) (point contact) to max 5-3/8 in. (137 mm). Pipe or conduit to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic pipes or conduits may be used:
A. Steel Pipe - Nom 4 in. (102 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
B. Iron Pipe - Nom 4 in. (102 mm) diam (or smaller) cast or ductile iron pipe.
C. Copper Pipe - Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
D. Copper Tubing - Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
E. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
F. Conduit - Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System - The firestop system shall consist of the following:
A. Packing Material - Min 4 in. (102 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* - Sealant - Min 1/4 in. (6 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall. For 3 Hr rated assemblies, a min 1/4 in. (6 mm) diam bead of fill material shall be applied at the concrete/pipe interface at the point contact location on the top surface of floor or wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-One Sealant or CP604 Self-Leveling Firestop Sealant. CP604 shall be used in floor applications only. When CP604 is used, F Rating is 2 Hr.
*Bearing the UL Classification Mark

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System No. C-AJ-1226
F Rating — 3 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in.
2. Metallic Sleeve — (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.
2A. Sheet Metal Sleeve — (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.
2B. Sheet Metal Sleeve — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.
3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants 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. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
E. Conduit — Nom 6 in. diam (or smaller) steel conduit.
F. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System — The firestop system shall consist of the following:
A. Packing Material — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/pipe penetrant interface on the top surface of floor and on both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant
*Bearing the UL Classification Mark

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System No. W-L-1249
F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 1/2 Hr

1. Wall Assembly The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
A. Studs Steel studs 3-1/2 in. deep, fabricated from 25 MSG galv steel, spaced max 24 in. OC.
B. Gypsum Boards* The gypsum board type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max area of opening is 360 sq in. with max dimension of 30 in.
The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.
2. Through Penetrants One or more nom 2 in. diam (or smaller) rigid steel conduit or electrical metallic tubing (EMT) to be installed within the opening. The annular space between conduits or tubing shall be min 0 in. (point contact) to max 3-3/8 in. The annular space between conduits or tubing and periphery of opening shall be min 0 in. (point contact) to max 3 in. Conduit or tubing to be rigidly supported on both sides of wall assembly.
3. Fill Void or Cavity Material - Foam* Fill material applied within annulus flush with both surfaces of the wall. Min fill material thickness for 1 Hr F Rating is 4-3/4 in. Min fill material thickness for 2 Hr F Rating is 5 in.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 620 Fire Foam
*Bearing the UL Classification Mark

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NOTES:

- DETAILS SHOWN ARE TYPICAL DETAILS. IF FIELD CONDITIONS DO NOT MATCH REQUIREMENTS OF TYPICAL DETAILS, APPROVED ALTERNATE DETAILS SHALL BE UTILIZED. FIELD CONDITIONS AND DIMENSIONS NEED TO BE VERIFIED FOR COMPLIANCE WITH THE DETAILS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - * MINIMUM AND MAXIMUM WIDTH OF JOINTS
 - * TYPE AND THICKNESS OF FIRE-RATED CONSTRUCTION. THE MINIMUM ASSEMBLY RATING OF THE FIRESTOP ASSEMBLY SHALL MEET OR EXCEED THE HIGHEST RATING OF THE ADJACENT CONSTRUCTION.
- IF ALTERNATE DETAILS MATCHING THE FIELD CONDITIONS ARE NOT AVAILABLE, MANUFACTURER'S ENGINEERING JUDGMENT DRAWINGS ARE ACCEPTABLE. DRAWINGS SHALL FOLLOW THE INTERNATIONAL FIRESTOP COUNCIL (IFC) GUIDELINES FOR EVALUATING FIRESTOP SYSTEMS ENGINEERING JUDGMENTS.
- REFERENCES:
 - * 2012 UNDERWRITER'S LABORATORIES FIRE RESISTANCE DIRECTORY, VOLUME 2
 - * NFPA 101 LIFE SAFETY CODE
 - * ALL GOVERNING LOCAL AND REGIONAL BUILDING CODES
- FIRESTOP SYSTEM INSTALLATION MUST MEET REQUIREMENTS OF ASTM E-814 (UL 1479) TESTED ASSEMBLIES THAT PROVIDE A FIRE RATING EQUAL TO THAT OF CONSTRUCTION BEING PENETRATED.
- ALL RATED THROUGH-PENETRATIONS SHALL BE PROMINENTLY LABELED WITH THE FOLLOWING INFORMATION:
 - * ATTENTION: FIRE RATED ASSEMBLY
 - * UL SYSTEM #
 - * PRODUCT(S) USED
 - * HOURLY RATING (F-RATING)
 - * INSTALLATION DATE

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ARCHITECT STAMP	CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA. PERMIT #:

MILESTONE DATES:

9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
04-22-24	PLANNING DEPT. SUBMITTAL

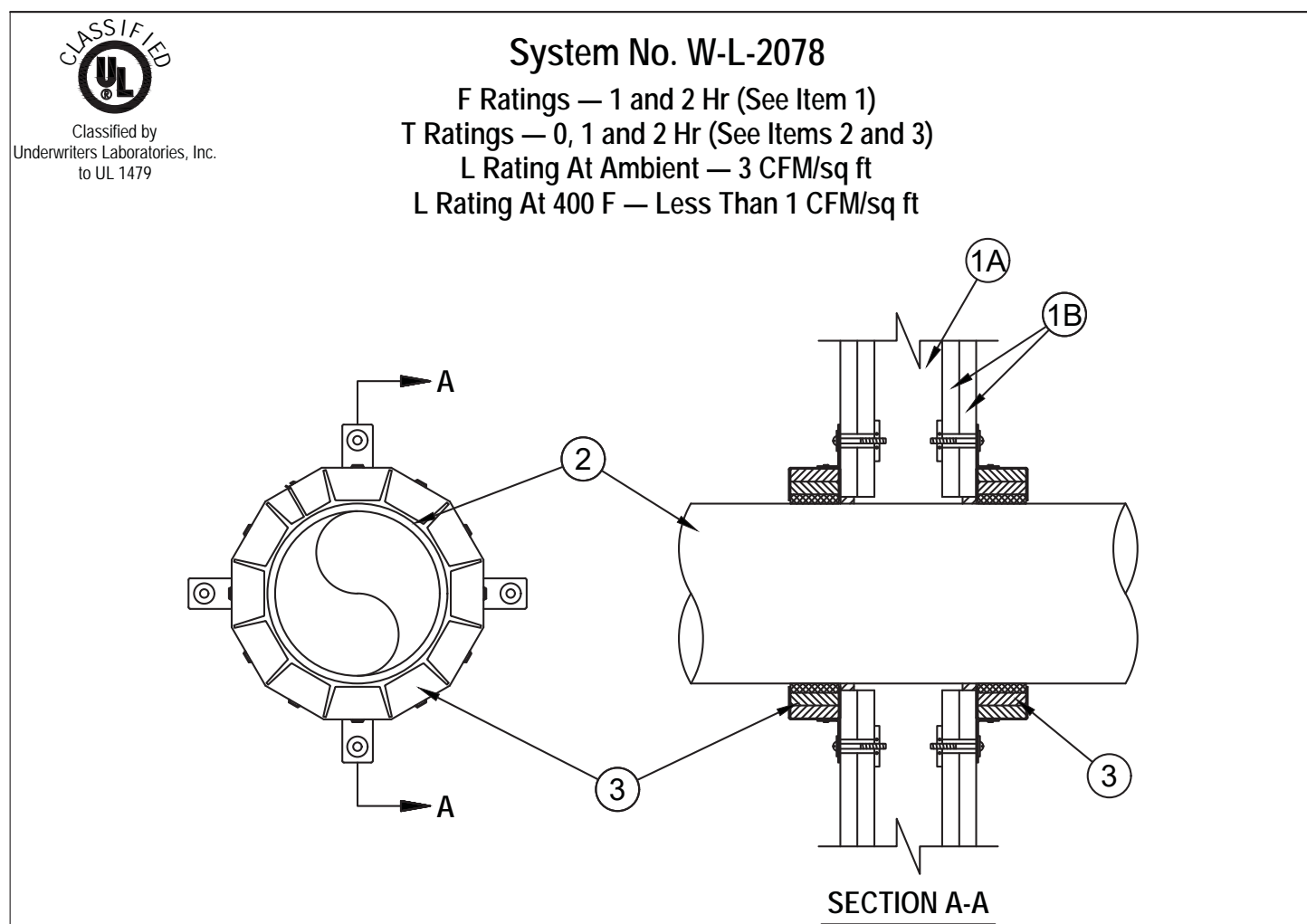
REVISIONS:

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
Details

DATE: 04-22-24
DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201



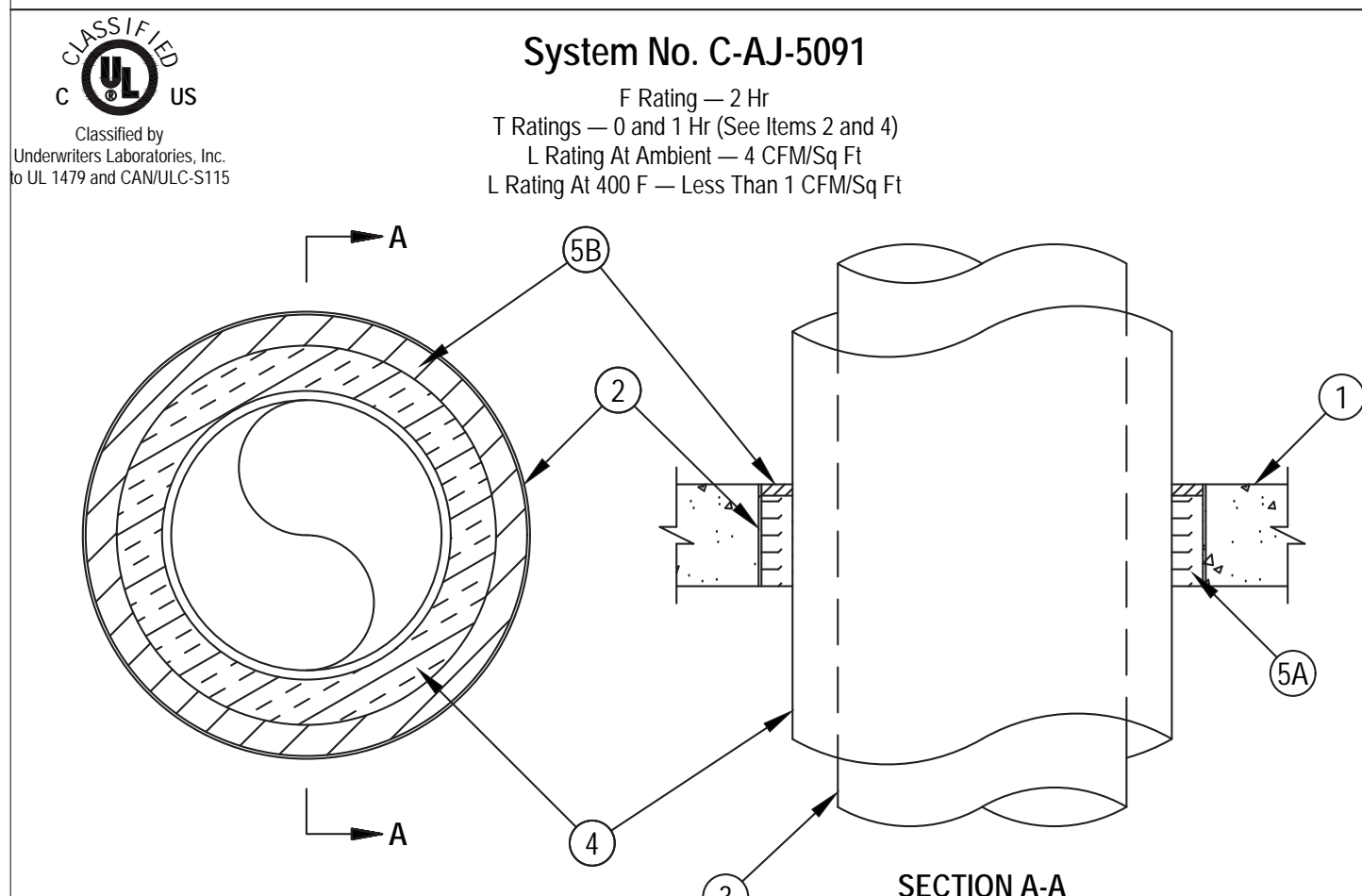
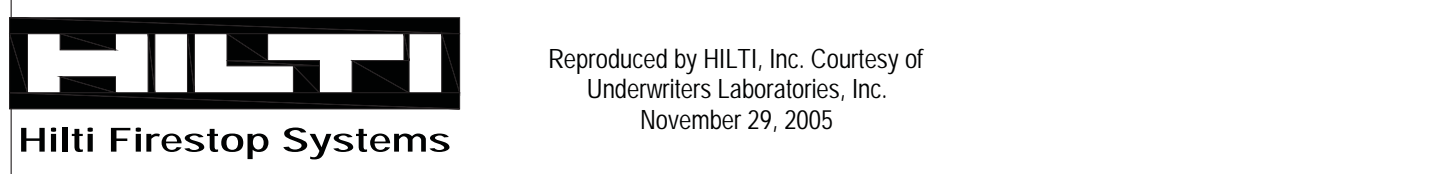
System No. W-L-2078
F Ratings — 1 and 2 Hr (See Item 1)
T Ratings — 0, 1 and 2 Hr (See Items 2 and 3)
L Rating At Ambient — 3 CFMSq Ft
L Rating At 400 F — Less Than 1 CFMSq Ft

1. Wall Assembly — The fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the construction features noted below.
 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 max 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
 B. Gypsum Board — Nom 5/8 in. thick gypsum board, as specified in the individual Wall and Partition Design. Max diam of opening is 11-1/2 in.
 The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through-Penetrants — One nonmetallic pipe, conduit or tubing to be installed within the firestop system. The annular space between pipe and periphery of opening shall be min 0 in. (point contact) to max 1/2 in. Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes may be used:
 A. Polyvinyl Chloride (PVC) Pipe — Nom 10 in. diam (or smaller) Schedule 40 solid-core or cellular core PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 B. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 10 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) piping systems.
 C. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 6 in. diam (or smaller) Schedule 40 solid-core or cellular core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.
 D. Flame Retardant Polypropylene (FRPP) Pipe — Nom 9 in. diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) piping systems.
 E. Polyvinylidene Fluoride (PVDF) Pipe — Nom 4 in. diam (or smaller) PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping system.
 When max 6 in. diam pipe is used, T Rating is 0 hr.
 When nom 8 in. or 10 in. diam pipe is used, T Rating is 0 hr.

3. Firestop Collar — Firestop collar shall be installed in accordance with the accompanying installation instructions. Collar to be installed and latched around the pipe and secured to both sides of the wall using the anchor hooks provided with the collar. (Minimum two anchor hooks for 1-1/2 and 2 in. diam pipes, three anchor hooks for 3 and 4 in. diam pipes, four anchor hooks for 6 in. diam pipes, ten anchor hooks for 8 in. diam pipes and twelve anchor hooks for 10 in. diam pipes). The anchor hooks are to be secured to the surface of wall with 3/16 in. diam by 2-1/2 in. long steel toggle bolts along with washers. As an alternate for pipe sizes of nom 4 in. diam or less, min No. 10 by 1-1/2 in. long drywall or laminate screws with min 3/4 in. steel washers may be used. When the drywall or laminate screw is used, T Rating shall not exceed 1 hr.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 643 50/1.5N, CP 643 63/2N, CP 643 90/3N, CP 643 110/4N, CP 643 160/6N, CP 643 200/8N, CP 644 200/8N and CP 644 250/10 Firestop Collars

4. Fill, Void or Cavity Material — Sealant — (Not Shown) — Min 1/2 in. thickness of sealant applied within the annular space for nom 8 in. and 10 in. diam pipes, flush with each side of wall. Sealant in annular space is optional for max 6 in. diam pipes. A min 1/4 in. thickness of sealant is required within the annular space, flush with each side of wall, to attain the L Ratings for max 8 in. diam pipes.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant
 *Bearing the UL Classification Mark



System No. C-AJ-5091
F Rating — 2 Hr
T Ratings — 0 and 1 Hr (See Items 2 and 4)
L Rating At Ambient — 4 CFMSq Ft
L Rating At 400 F — Less Than 1 CFMSq Ft

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 29 in. (737 mm).
 See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

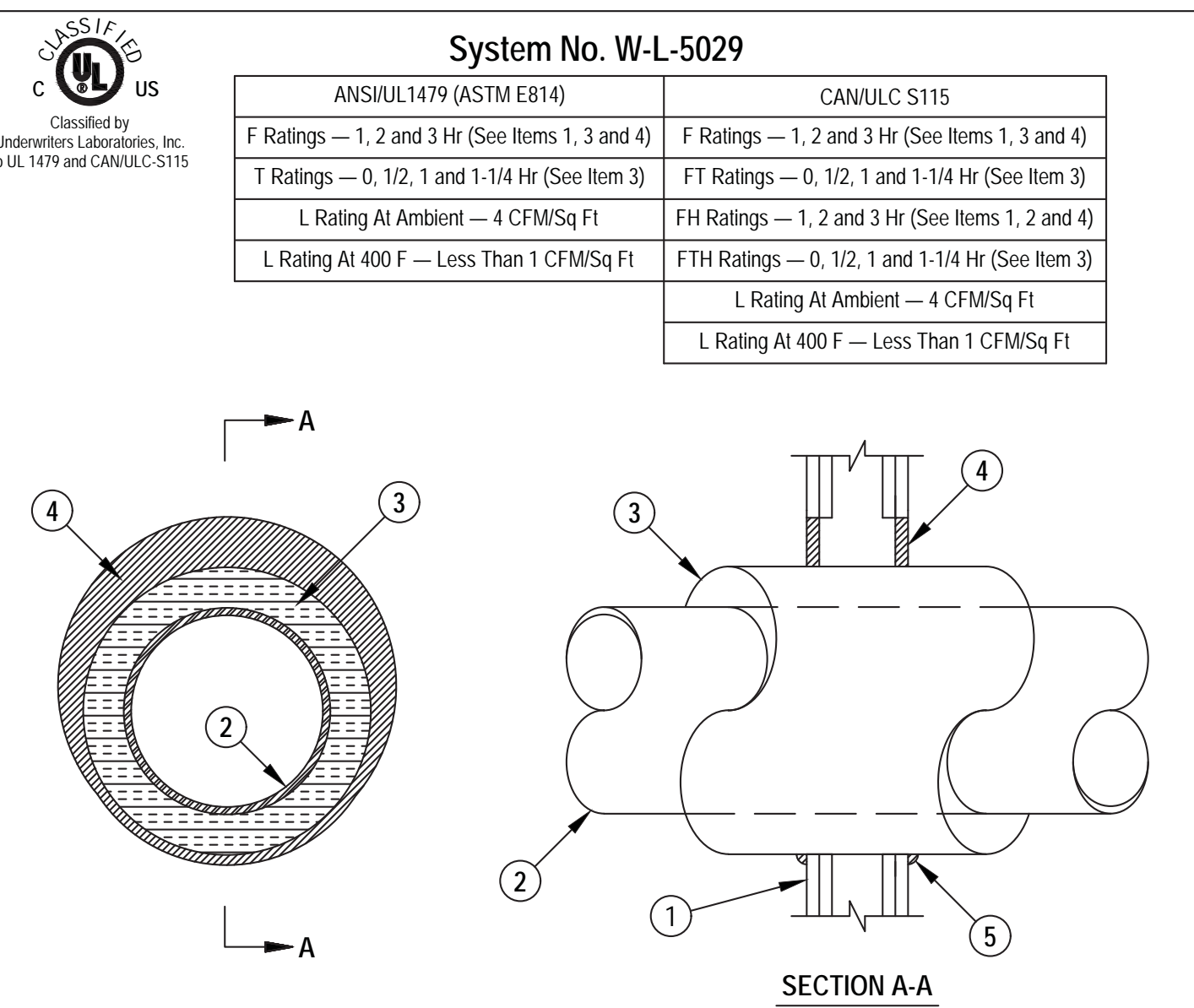
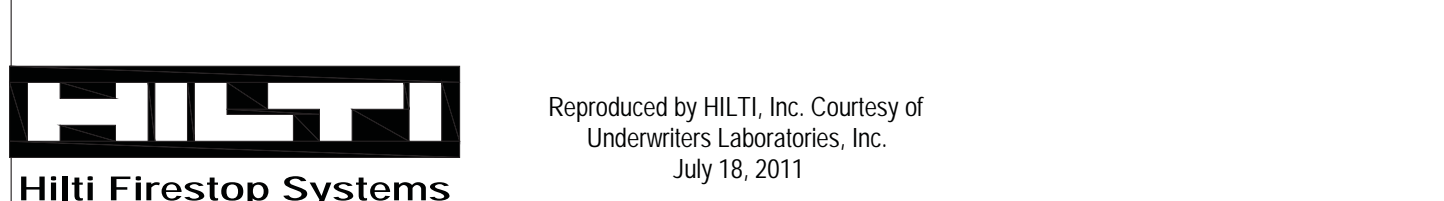
2. Metallic Sleeve — (Optional) — Nom 30 in. (762 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. (76 mm) above floor or beyond both surfaces of wall. If the steel sleeve extends beyond the top surface of the floor or both surfaces of the wall, the T Rating of the firestop system is 0 hr.
 2B. Sheet Metal Sleeve — (Optional) — Max 6 in. (152 mm) diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approximately mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.
 2C. Sheet Metal Sleeve — (Optional) — Max 12 in. (305 mm) diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approximately mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. (51 mm) larger than the sleeve diam. The sleeve is to be cast in place flush with bottom surface of floor and may extend a max of 1 in. (25 mm) above the top surface of the floor.

3. Through Penetrants — One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (point contact) to max 3-1/4 in. (86 mm) wide and spaced max 24 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. Additional steel studs shall be used to completely frame the opening.
 B. Gypsum Board — Nom 5/8 in. (16 mm) thick 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 U400 or V400 Series Design in the UL Fire Resistance Directory. Max area of opening is 73.7 sq ft (6.85 m²) with a max dimension of 104 in. (2.64 m).
 The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

4. Fill, Void or Cavity Material — Sealant — (Not Shown) — Polyethylene backer rod, mineral wool batt insulation or fiberglass batt insulation friction fitted into annular space. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
 A1. Packing Material — Required as specified in Table below. Min 3-3/4 in. (95 mm) or 5 in. (127 mm) thickness of min 4 pcf (64 kg/m³) mineral wool batt insulation firmly packed into opening as a permanent form for 1 and 2 hr rated assemblies, respectively. Packing material to be recessed from both surfaces of wall to accommodate the required thickness of fill material.
 B. Fill, Void or Cavity Material — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of fill material shall be applied at the point contact location between the steel duct and the gypsum board.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant or CP606 Flexible Firestop Sealant
 C. Steel Retaining Angles — Min 10 in. (254 mm) thick, 4 ft (1.22 m) galv steel angles sized to lap steel duct at a min of 2 in. (51 mm) and to lap wall surface a min of 1 in. (25 mm). When max duct dimension does not exceed 45 in. (112 cm) and duct area does not exceed 1300 in² (8387 cm²), angles may be min No. 18 gauge galv steel. Angles attached to steel duct on both sides of wall with min No. 10 by 1/2 in. (13 mm) long steel sheet metal screws located a max of 6 in. (152 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. Steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material and annular space as specified.

Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

*Bearing the UL Classification Mark



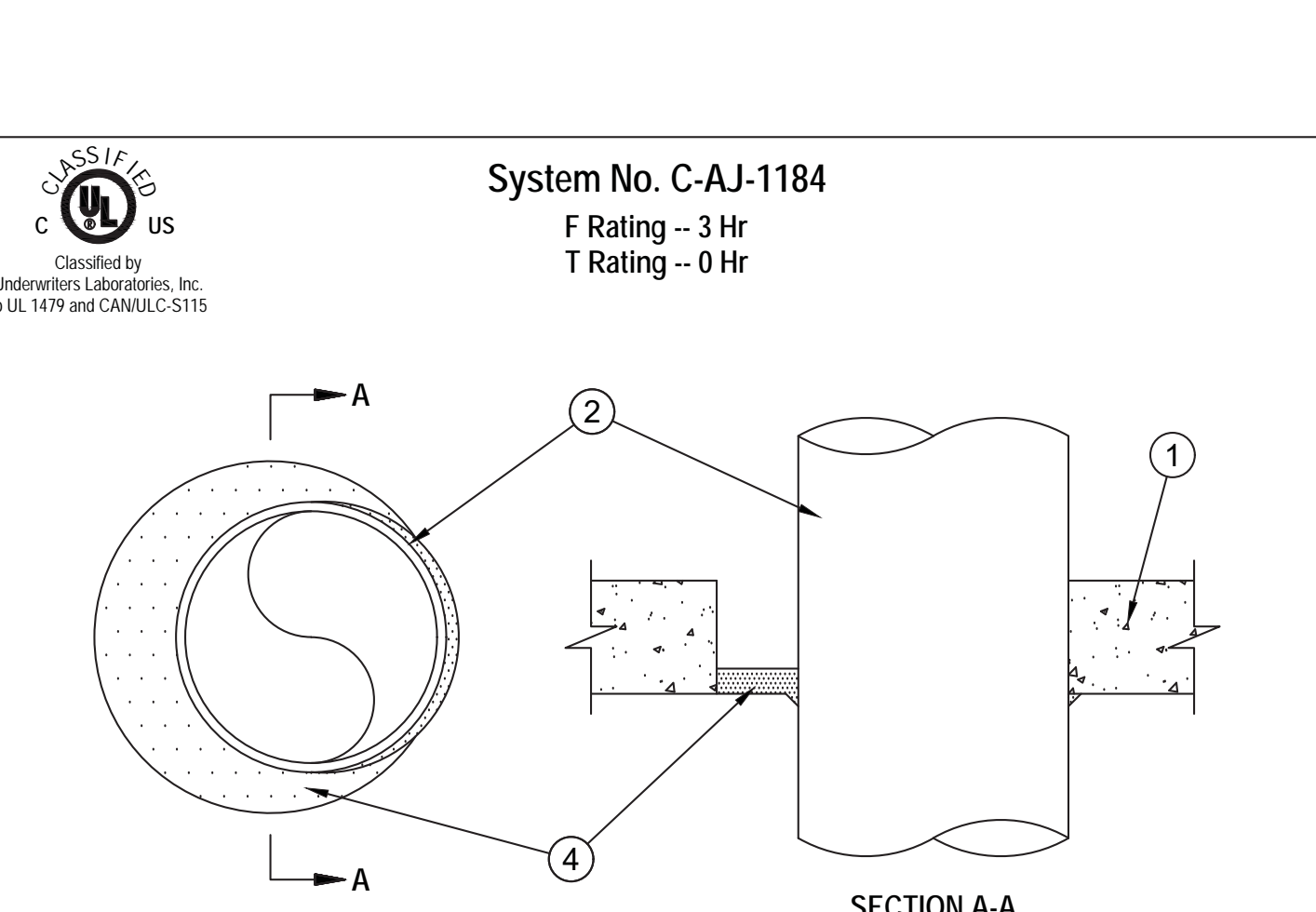
System No. W-L-5029
ANSI/UL1479 (ASTM E814)
CANULC S115
F Ratings — 1, 2 and 3 Hr (See Items 1, 3 and 4)
T Ratings — 0, 1/2, 1 and 1-1/4 Hr (See Item 3)
L Rating At Ambient — 4 CFMSq Ft
L Rating At 400 F — Less Than 1 CFMSq Ft

1. Wall Assembly — The 1, 2 or 3 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 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. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
 B. Gypsum Board — Min 5/8 in. (16 mm) thick 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 Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).
 A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide for 1 and 2 hr F and FH rating and 3-1/2 in. (89 mm) wide for 3 hr F and FH rating and spaced max 24 in. (610 mm) OC.
 B. Gypsum Board — Min 5/8 in. (16 mm) thick 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 Wall and Partition Design. Max diam of opening is 18-5/8 in. (473 mm).
 The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants — One metallic pipe or tubing to be installed within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
 A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 B. Iron Pipe — Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
 C. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper tube shall not exceed 4 in. (102 mm).
 D. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe. When the hourly F or FH Rating of the firestop system is 3 hr, the nom diam of copper pipe shall not exceed 4 in. (102 mm).

3. Pipe Covering — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with duct tape supplied with the product. For 1 and 2 hr F and FH Ratings, the annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
 See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Fill, Void or Cavity Material — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant
 *Bearing the UL Classification Mark



System No. C-AJ-1184
F Rating — 3 Hr
T Rating — 0 Hr

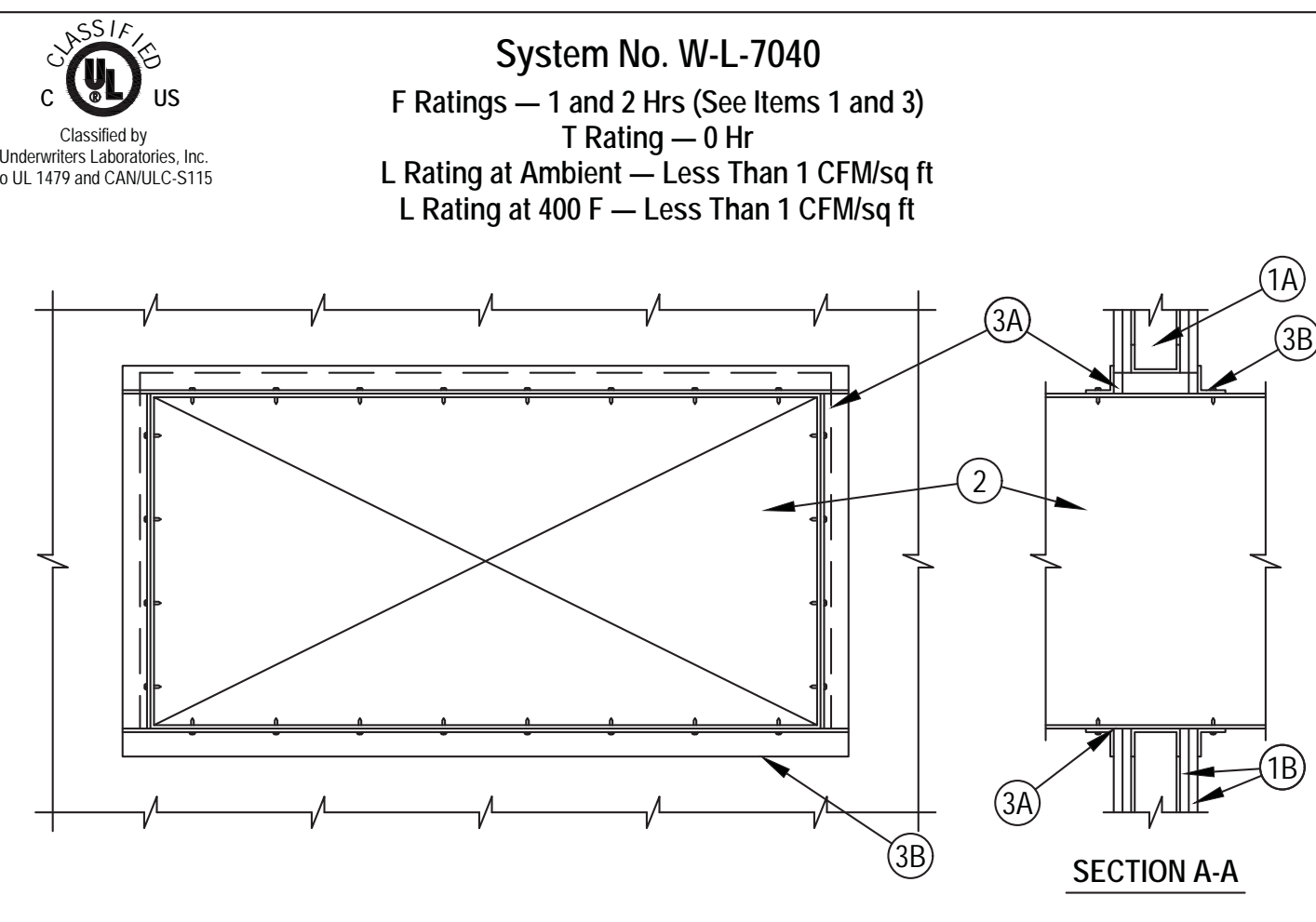
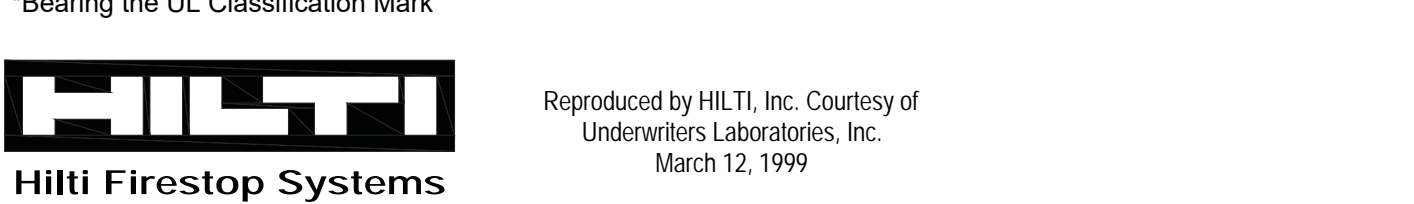
1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Floor may also be constructed of any min 7-1/2 in. thick UL Classified hollow core Precast Concrete Unit. Max diam of opening is 14 in. when concrete floor or wall is used and max 7 in. when precast concrete units are used.
 See Concrete Blocks (CAZT) and Precast Concrete Units (CFTV) categories in the Fire Resistance Directory for names of manufacturers.

2. Through Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min 0 in. (point contact) to max 3-1/4 in. (86 mm) wide and spaced max 24 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. Additional steel studs shall be used to completely frame the opening.
 A. Steel Pipe — Nom 10 in. (254 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
 B. Iron Pipe — Nom 10 in. (254 mm) diam (or smaller) cast or ductile iron pipe.
 C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or steel conduit.
 D. Copper Tubing — Nom 4 in. (102 mm) diam (or smaller) Type L (or heavier) copper tubing.
 E. Copper Pipe — Nom 4 in. (102 mm) diam (or smaller) regular (or heavier) copper pipe.

3. Forms — (Not Shown, Optional) — Used as a form to prevent leakage of fill material during installation. Forms to be rigid sheet material, cut to fit the contour of the penetrating item and positioned as required to accommodate the required thickness of fill material. Forms to be removed after fill material has cured. Additional forming material may be used concrete block wall is penetrated. A min 1/2 in. (13 mm) thickness of min 4 pcf mineral wool batt insulation is firmly packed into the annulus as a permanent form and recessed from both surfaces of the wall as required to accommodate the required thickness of fill material.
 A. Fill, Void or Cavity Material — Sealant — Min 1 in. (25 mm) thickness of fill material applied within the annulus. At the point contact location between penetrant and concrete, a min 1/2 in. (13 mm) long steel sheet metal screws located a max of 6 in. (152 mm) from each end of steel duct and spaced a max of 6 in. (152 mm) OC. Steel angles are optional for those sides of duct that do not exceed the dimension specified in Table below, dependent on packing material and annular space as specified.

Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

*Bearing the UL Classification Mark

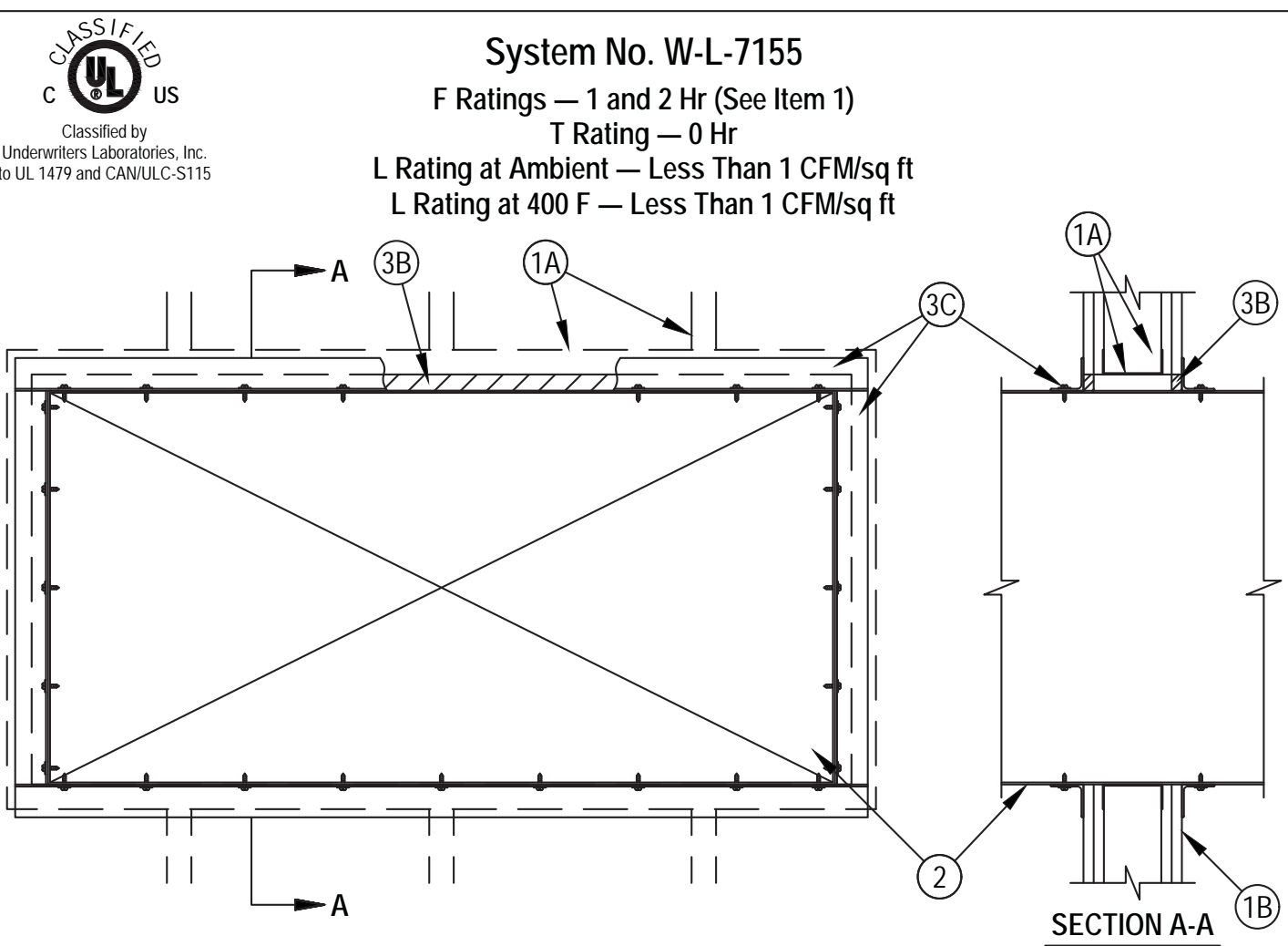
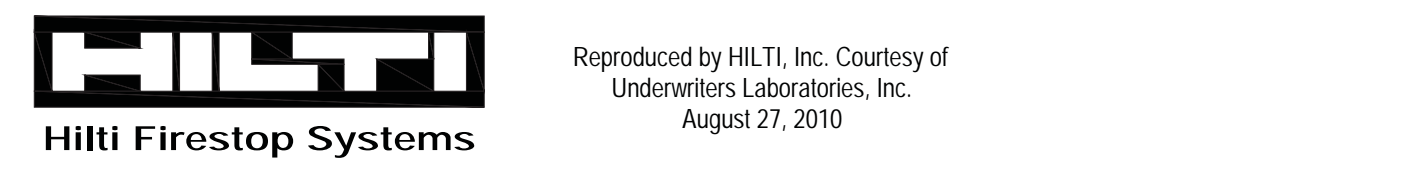


System No. W-L-7040
F Ratings — 1 and 2 Hrs (See Items 1 and 3)
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFMSq Ft
L Rating At 400 F — Less Than 1 CFMSq Ft

1. Wall Assembly — The 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 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. Additional framing members shall be used to completely frame around opening.
 B. Gypsum Board — Nom 5/8 in. thick with square or tapered edges. The gypsum wallboard type, number of layers and sheet orientation shall be as specified in the individual Wall and Partition Design Number. Max area of opening is 1300 in. with the dimension of 50 in. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Steel Duct — Nom 24 in. by 48 in. (or smaller) No. 24 gauge (or heavier) galv steel duct to be installed within the firestop system. The annular space shall be min 0 (point contact) in. to a max 2 in. Duct to be rigidly supported on both sides of the wall assembly.

3. Firestop System — The firestop system shall consist of the following:
 A. Fill, Void or Cavity Material — Sealant — Min 5/8 in. thickness of fill material applied within annulus flush with both surfaces of wall. At point contact location, a min 1/2 in. diam bead of fill material shall be applied to the wall/duct interface on both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant, CP601S Elastomeric Firestop Sealant or CP606 Flexible Sealant
 B. Steel Retaining Angle — Nom 18 MSG (0.048 in.) galv steel angles cut to fit contour of duct with a 2 in. overlap on the duct and a min 1 in. overlap on the gypsum board assembly on both surfaces of wall. 2 in. leg of angle secured to duct with min No. 8 by 3/4 in. long sheet metal screws, spaced a max of 6 in. OC. When bead of fill material is used at point contact locations, angles shall be installed prior to full material curing.
 *Bearing the UL Classification Mark

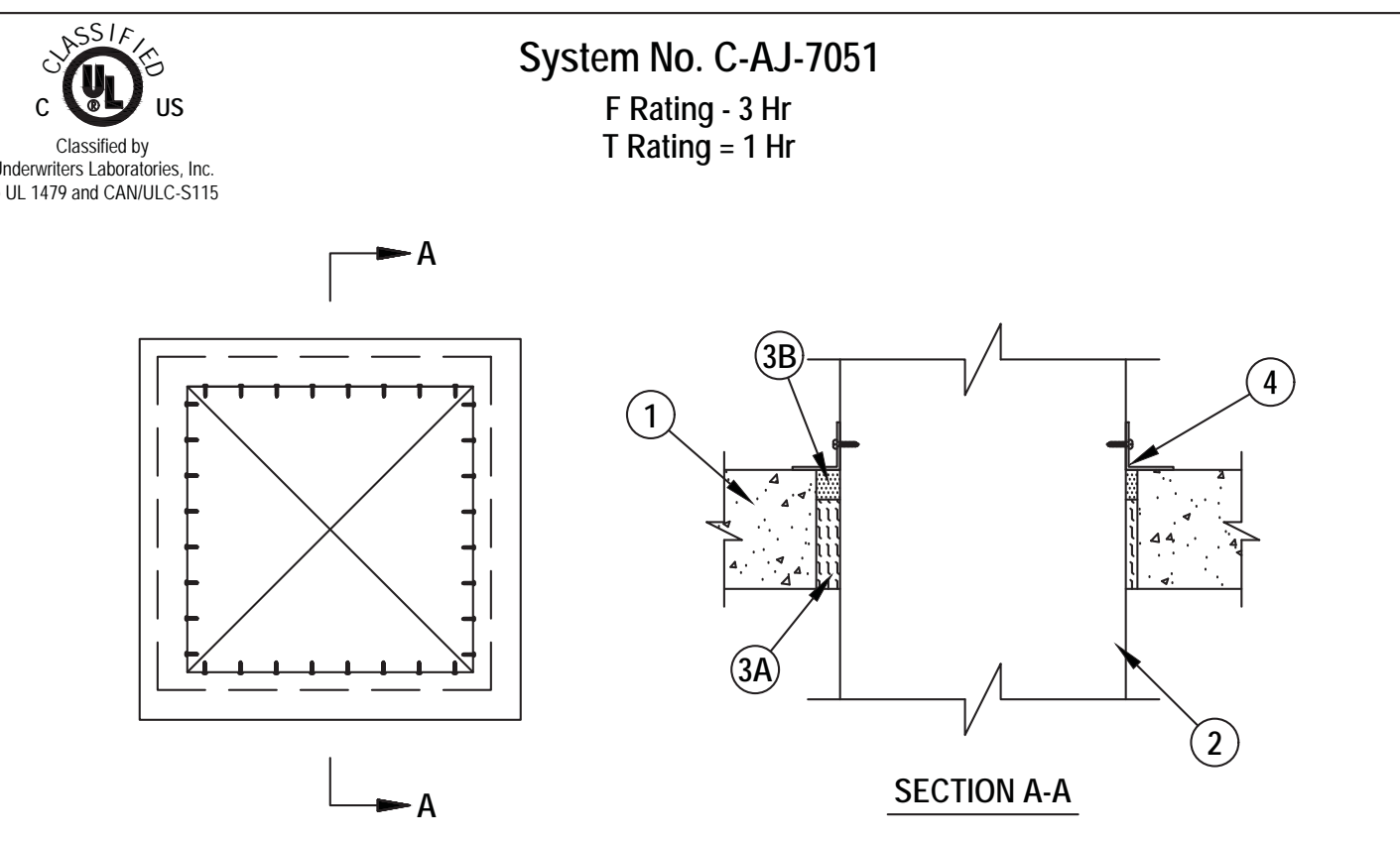
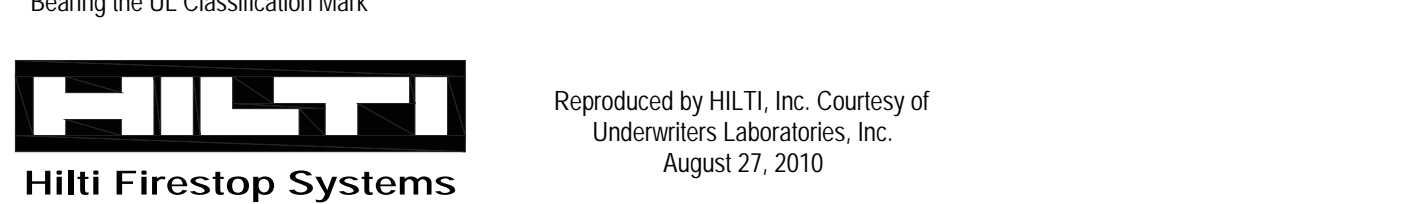


System No. W-L-7155
F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFMSq Ft
L Rating At 400 F — Less Than 1 CFMSq Ft

The hourly T, FT, FTH Ratings of the firestop system are 12 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
 3A. Pipe Covering — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with duct tape supplied with the product. The annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
 See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Fill, Void or Cavity Material — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant
 *Bearing the UL Classification Mark

Max Duct Dimension	Duct Thickness	Annular Space	Packing Material	Angle (Item 3C) Required
24 in. (610 mm)	24 ga or heavier	1/2 in. min to 1 in. max (13 to 25 mm)	Item 3A1	No

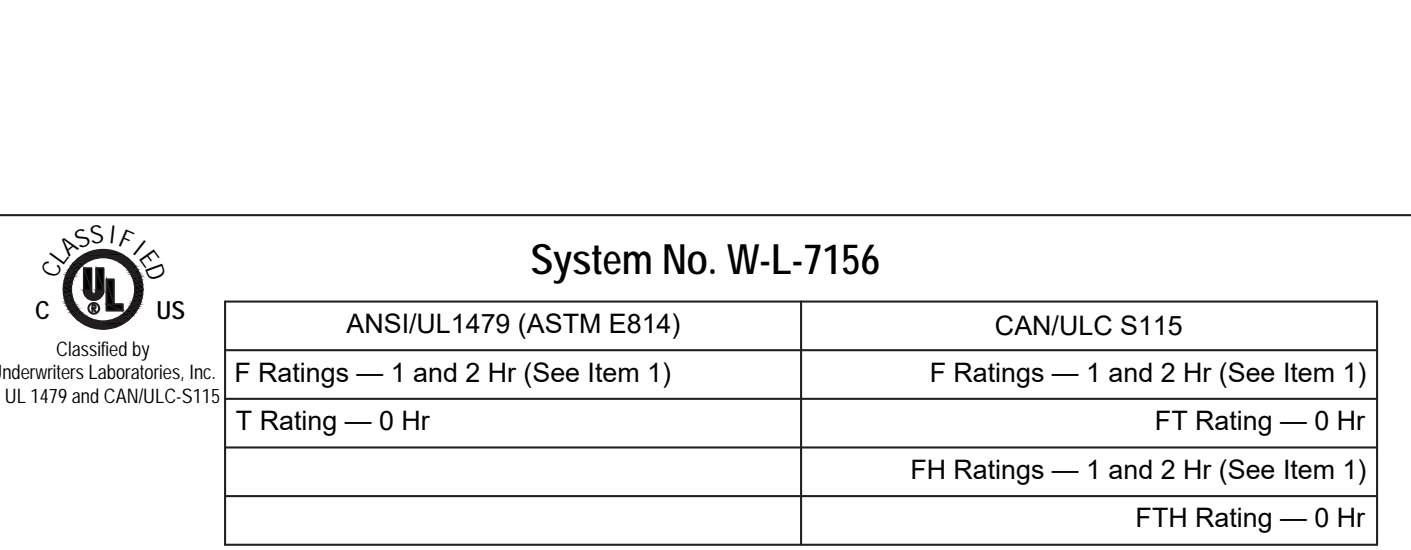


System No. C-AJ-7051
F Rating - 3 Hr
T Rating = 1 Hr

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any Underwriters Laboratories Inc. Classified Concrete Blocks*. Max area of opening is 1024 in. sq. with a max dimension of 32 in.
 See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

2. Steel Duct — Nom 30 by 30 in. (or smaller) No. 24 gauge (or heavier) galv steel duct. One steel duct to be positioned within the firestop system. The annular space shall be min 1/4 in. to a max 1-3/4 in. Duct to be rigidly supported on both sides of floor or wall assembly.

3. Firestop System — The firestop system shall consist of the following:
 A. Packing Materials — Min 3-1/2 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form between the bare steel duct and the periphery of the opening. Packing material to be recessed from top surface of floor or both surfaces of wall as required to accommodate the required thickness of fill material.
 B. Fill, Void or Cavity Material — Sealant — Min 1 in. thickness of fill material applied within annulus, flush with top surface of floor or both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — CP606 Flexible Firestop Sealant or FS-ONE Sealant
 4. Steel Retaining Angle — Nom 2 in. by 2 in. by No. 16 gauge (or heavier) steel angles attached to all four sides of the steel duct on the top surface of both surfaces of the wall. The angles shall be attached with No. 8 (or larger) steel sheet metal screws spaced max of 1 in. from each end and a max of 3 in. OC.
 *Bearing the UL Classification Mark



System No. W-L-7156
ANSI/UL1479 (ASTM E814)
CANULC S115
F Ratings — 1 and 2 Hr (See Item 1)
T Rating — 0 Hr
FH Ratings — 1 and 2 Hr (See Item 1)
FTH Rating — 0 Hr

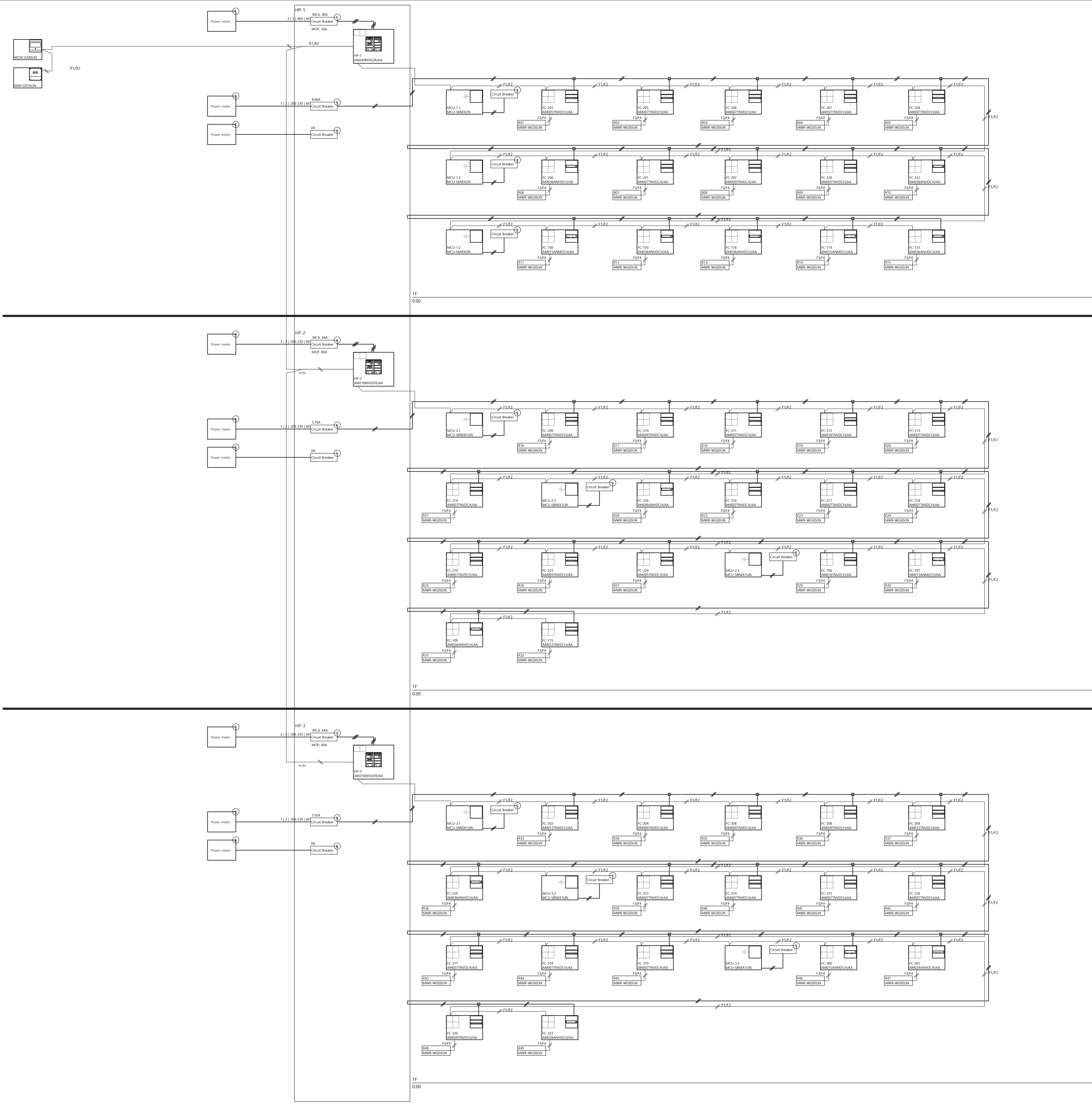
The hourly T, FT, FTH Ratings of the firestop system are 12 hr for 1 hr rated walls and 1 hr for 2 hr rated walls. For 3 hr rated walls, the hourly T, FT and FTH Ratings when steel and iron pipes are used are 1-1/4 hr for 2 in. (51 mm) thick pipe covering and 0 hr for pipe covering thickness less than 2 in. (51 mm).
 3A. Pipe Covering — (Not Shown) — As an alternate to Item 3, max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m³) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with duct tape supplied with the product. The annular space between insulated penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. (48 mm). For 3 hr F and FH Ratings, the annular space shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).
 See Pipe and Equipment Covering — Materials (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

4. Fill, Void or Cavity Material — Sealant — For 1 and 2 hr F and FH Rating, min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. For 3 hr F and FH Rating, min 1 in. (25 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point contact location between pipe covering and gypsum board, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe covering/gypsum board interface on both surfaces of wall.
 HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE Sealant
 *Bearing the UL Classification Mark

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400 or V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
 A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC. Additional framing members shall be used to completely frame around opening.
 B. Gypsum Board — Min 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers and orientation shall be as specified in the individual U300, U400 or V400 Wall and Partition Design. Max area of opening is 210 sq ft (1935 cm²) with max width of 14-1/2 in. (368 mm) for wood studs. Max size of opening is 76.2 sq ft (7 m²) with a max width of 105-1/2 in. (2.7 m) for steel studs.
 The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall in which it is installed.

2. Steel Duct — Max 100 by 100 in. (2.5 by 2.5 m) steel duct to be installed within the framed opening. The duct shall be constructed and reinforced in accordance with SMACNA construction standards. Steel duct to be rigidly supported on both sides of wall assembly.

3. Batts and Blankets — Nom 1-1/2 or 2 in. (38 or 51 mm) thick glass fiber batt or blanket (min 3/4 pcf or 12 kg/m³) jacketed on the outside with a foil-scrim-kraft facing. Longitudinal and transverse joints sealed with aluminum foil tape. During the installation of the fill material, the batt or



Drawing name: E:\SAN\Sansum\SAN2201_SanDiabetes\SAN2201-Dwg\SAN2201-M4-1.dwg
 PLOT DATE: Apr 22, 2024 - 9:55am
 PLOT BY: Tom

ARCHITECT STAMP	CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA.
PERMIT #:

MILESTONE DATES:

9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
04-22-24	PLANNING DEPT. SUBMITTAL

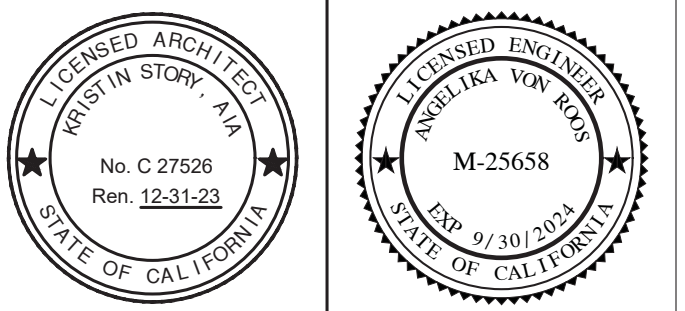
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PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
VRF System Wiring Schematics
DATE: 04-22-24

DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201



AGENCY APPROVAL: CITY OF SANTA BARBARA.
PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
10-2-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
04-22-24 PLANNING DEPT. SUBMITTAL

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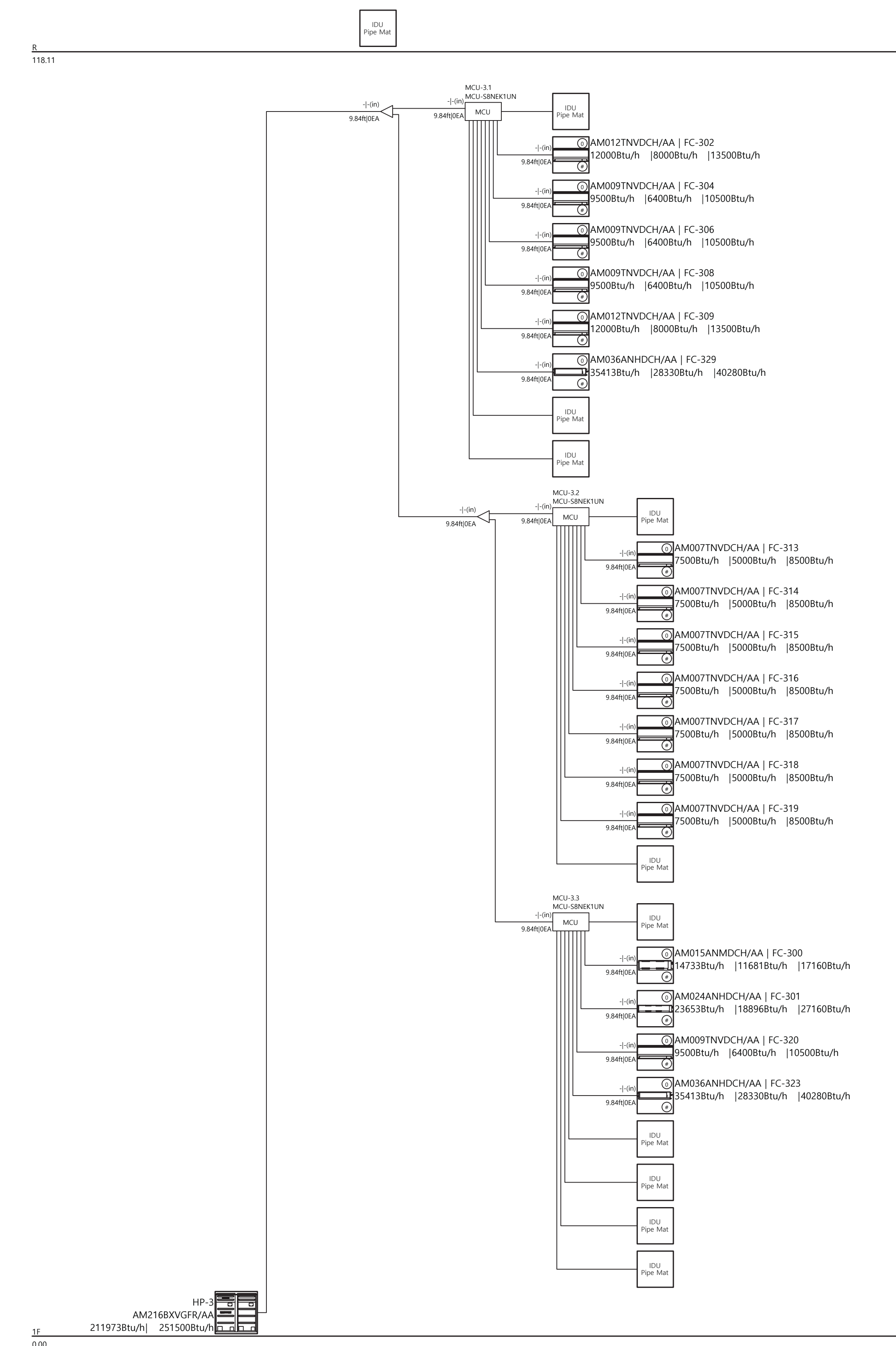
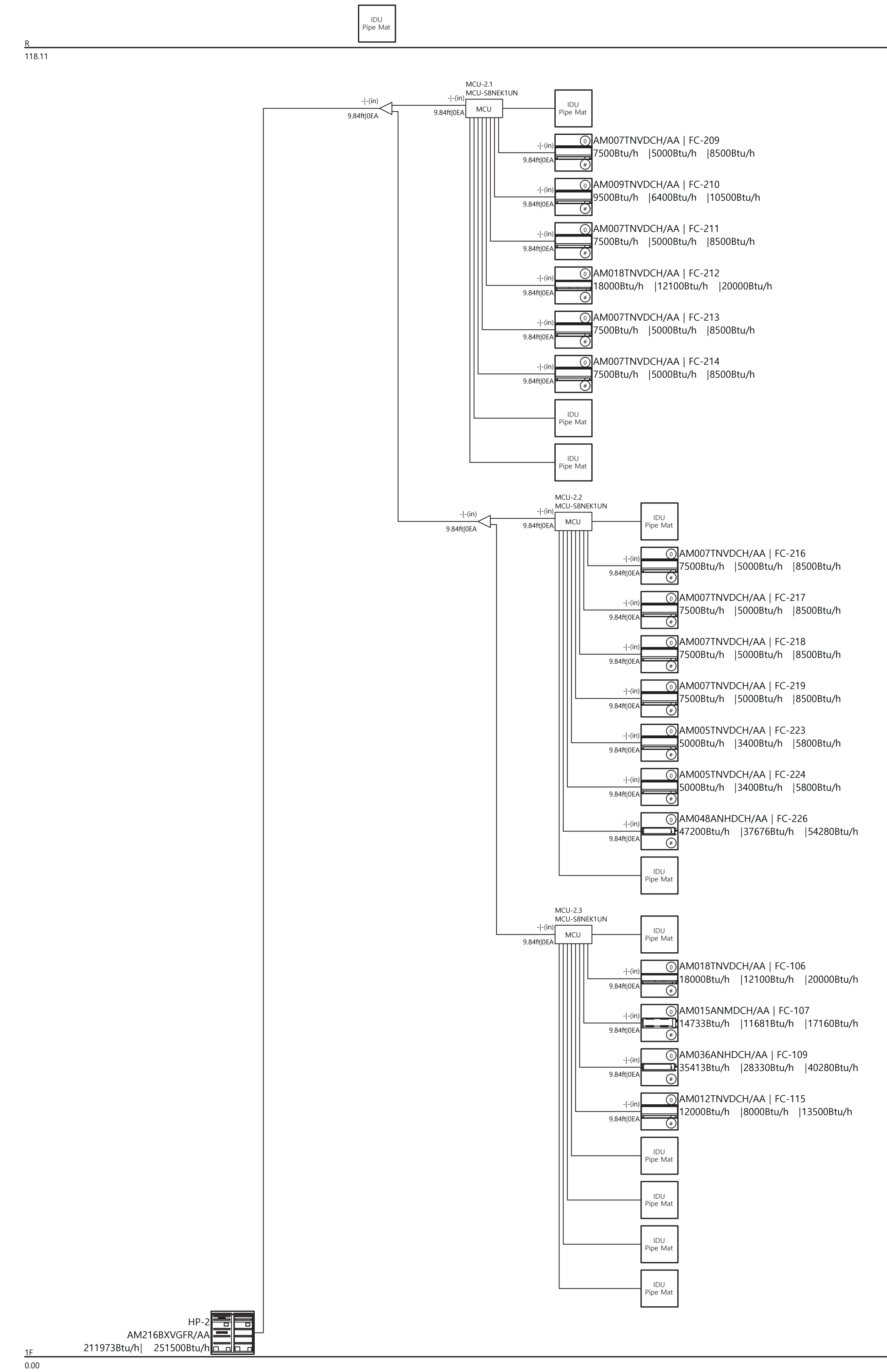
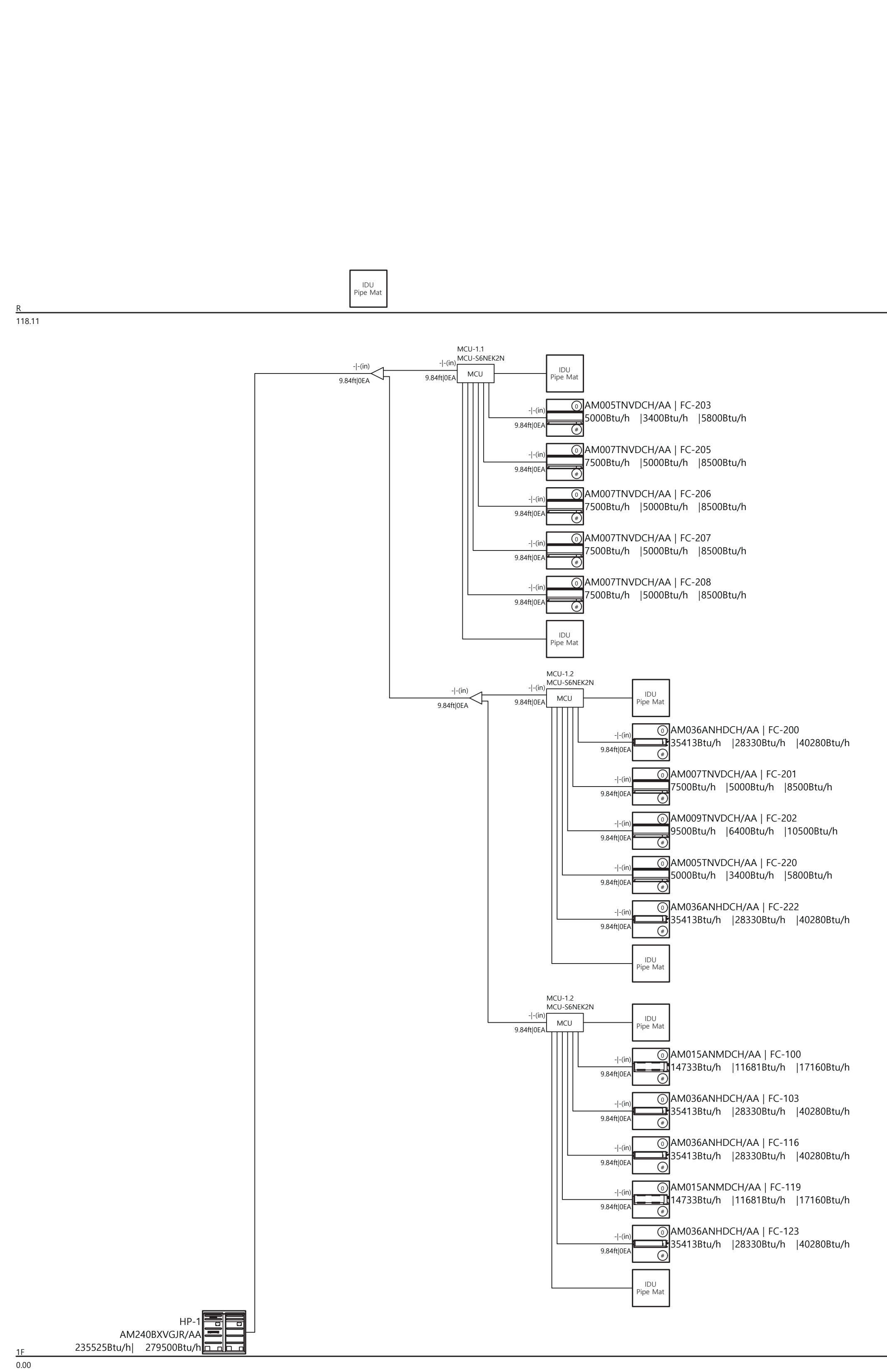
PROJECT TITLE:

**SANSUM DIABETES
RESEARCH
INSTITUTE**
2219 BATH STREET
SANTA BARBARA, CA
93105

SHEET TITLE:
**VRF System
Piping Schematics**
DATE: 04-22-24

DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201

M-4.2



Drawing name: E:\SAN\Sansum\SAN2201_SanDiabetes\SAN2201-Dwg\SAN2201-F1-1.dwg
PLOT DATE: Apr 22, 2024 - 9:55am
PLOT BY: Tom

PLUMBING FIXTURES

TAG	TYPE	MINIMUM CONNECTION SIZES				ELECTRICAL		SPECIFICATION
		CW	HW	W	V	VOLTS	AMPS	
S 1	EXAM SINK	1/2"	1/2"	2"	1-1/2"	-	-	ELKAY #LRAD191855, 18 GA. STAINLESS STEEL, SINGLE BOWL WITH 1 FAUCET HOLE; #LKAD-35 STRAINER/STOPPER WITH OFFSET TAILPIECE; FAUCET: CHICAGO #434-ABCP, 1.5 GPM; SUPPLIES/STOPS: CHICAGO #1016-ABCP. TRAP & SUPPLY COVERS: PLUMBEREX "PRO-EXTREME".
S 2	BREAKROOM SINK	1/2"	1/2"	2"	1-1/2"	-	-	ELKAY MODEL #ECTSRAD33226TBG, 33"x 22"x 6", 18 GAUGE STAINLESS STEEL, DOUBLE BOWL, DUAL MOUNT ADA SINK WITH SINGLE FAUCET HOLE; #LK-35 STRAINER/STOPPER; FAUCET: CHICAGO #434-ABCP, 1.5 GPM; SUPPLIES/STOPS: CHICAGO #1016-ABCP, TRUEBRO #103 COVERS OR PLUMBEREX "PRO-2000" TRAP & SUPPLY COVERS.
S 3	LAB SINK	1/2"	1/2"	2"	1-1/2"	-	-	ELKAY MODEL #ECTSRAD25226TBG, 25" x 22" x 6", 18 GAUGE STAINLESS STEEL, SINGLE BOWL, DUAL MOUNT ADA SINK WITH SINGLE FAUCET HOLE; #LKAD-35 STRAINER/STOPPER WITH OFFSET; FAUCET: CHICAGO #434-ABCP, 1.5 GPM; SUPPLIES/STOPS: CHICAGO #1016-ABCP, TRUEBRO #103 COVERS OR PLUMBEREX "PRO-2000" TRAP & SUPPLY COVERS.
S 4	BAR SINK	1/2"	1/2"	2"	1-1/2"	-	-	ELKAY #LRAD191855, 18 GA. STAINLESS STEEL, SINGLE BOWL WITH 1 FAUCET HOLE; #LKAD-35 STRAINER/STOPPER WITH OFFSET TAILPIECE; FAUCET: CHICAGO #434-ABCP, 1.5 GPM; SUPPLIES/STOPS: CHICAGO #1016-ABCP. TRAP & SUPPLY COVERS: PLUMBEREX "PRO-EXTREME".
S 5	SOILED ROOM SINK	1/2"	1/2"	2"	1-1/2"	-	-	ELKAY MODEL #ECTSRAD25226TBG, 25" x 22" x 6", 18 GAUGE STAINLESS STEEL, SINGLE BOWL, DUAL MOUNT ADA SINK WITH SINGLE FAUCET HOLE; #LKAD-35 STRAINER/STOPPER WITH OFFSET; FAUCET: CHICAGO #434-ABCP, 1.5 GPM; SUPPLIES/STOPS: CHICAGO #1016-ABCP, TRUEBRO #103 COVERS OR PLUMBEREX "PRO-2000" TRAP & SUPPLY COVERS.
LAV 1	LAVATORY	1/2"	1/2"	2"	1-1/2"	-	-	AMERICAN STANDARD "DECORUM" #9024.001EC, EVERCLEAN, SINGLE FAUCET HOLE, FOR CONCEALED ARM SUPPORT; FAUCET: AMERICAN STANDARD #7755.303, NEXTGEN SELECTRONIC, WITH ABOVE DECK MIXING, 5 YR BATTERY POWER, 0.35 GPM, METERING, LEAD FREE; INTEGRAL TMV ASSE 1070 CERTIFIED; GRID STRAINER; CAST BRASS P-TRAP; SUPPLIES/STOPS: CHICAGO #1016-ABCP; TRAP & SUPPLY COVERS: TRUEBRO "LAVGUARD 2" OR PLUMBEREX "PRO-EXTREME"; CARRIER: J.R. SMITH #0700.
WC 1	FLOOR MOUNTED WC (FV, ADA)	1-1/2"	-	4"	2"	-	-	AMERICAN STANDARD "MADERA FLOWISE", 16.5" HEIGHT, ELONGATED, EVERCLEAN, #3461.001, 1.28GPF, FLUSH VALVE: SLOAN #111, 1.28 GPF; SEAT: OLSONITE #955SCT OPEN FRONT LESS COVER OR BEMIS #1955SCT
WC 2	FLOOR MOUNTED WC (FV)	1-1/2"	-	4"	2"	-	-	AMERICAN STANDARD "MADERA FLOWISE", 15" HEIGHT, ELONGATED, EVERCLEAN, #2855.128; FLUSH VALVE: SLOAN #111, 1.28 GPF; SEAT: OLSONITE #955SCT OPEN FRONT LESS COVER.
MS 1	MOP SINK	3/4"	3/4"	3"	2"	-	-	FIAT #MSB2424 WITH GRID STRAINER, MOP HANGER; FAUCET: CHICAGO #540-LD897SWFABCP, LEVER HANDLES WITH WALL BRACE, THREADED OUTLET & VACUUM BREAKER.
DF 1	DRINKING FOUNTAIN	1/2"	-	2"	1-1/2"	-	-	HAWS #1011, DUAL HEIGHT, STAINLESS STEEL, LEAD FREE, SATIN FINISH, 6700.4 MOUNTING PLATE, 6800 CARRIER IF STUD WALL.
FD 1	FLOOR DRAIN	-	-	2"	1-1/2"	-	-	JAY R. SMITH #2005Y-B-PB SERIES, 6" SQUARE POLISHED BRONZE TOP, INCLUDE TRAP PRIMER CONNECTION; TRAP PRIMER: MIFAB M-500 OR MI-DU WHERE MULTIPLE TRAPS ARE SERVED. INSTALL TRAP PRIMER ON CW SUPPLY OF FREQUENTLY USED FIXTURE WITH ISOLATION BALL SOV, WITH ACCESS.
FS 1	FLOOR SINK	-	-	2"	1-1/2"	-	-	JAY R. SMITH #3110, 12" TOP, NICKEL BRONZE GRATE PER FLOOR SINK DRAWINGS.
HB 1	HOSE VALVE	3/4"	-	-	-	-	-	ACORN #8121-LF, LEAD FREE, REMOVABLE LOOSE KEY WHEEL HANDLE, VANDAL RESISTANT LOCKSHEILD BONNET, NON REMOVABLE VACUUM BREAKER.
F 1	INLINE DRINKING WATER FILTER	1/2"	-	-	-	-	-	SM CUNO "AQUA-PURE" MODEL AP-DWS1000, DUAL STAGE CARBON FILTRATION SYSTEM WITH QUICK CHANGE FILTER CARTRIDGES AND DECK FAUCET. INSTALL PER MFR'S INSTRUCTION AND CODES.
EW 1	EYEWASH DECK MOUNTED	1/2"	1/2"	-	-	-	-	GUARDIAN BARRIER FREE DECK MOUNTED 90° SWING DOWN WITH EMERGENCY SIGN TO BE MOUNTED ON THE WALL BEHIND UNIT; GUARDIAN MODEL #G8F1849LH-R WITH #66020 THERMOSTATIC MIXING VALVE TO SUPPLY TEPID WATER IN COMPLIANCE WITH ANSI Z358.1-2014. MOUNT TMV IN ACCESSIBLE LOCATION BELOW THE COUNTER.
AG 1	AIRGAP FITTING	-	-	2"	1-1/2"	-	-	---

ABBREVIATIONS

AFF ABOVE FINISHED FLOOR	MIN MINIMUM
ARCH ARCHITECTURAL DRAWINGS	(N) NEW
BLDG BUILDING	N/A NOT APPLICABLE
BTU BRITISH THERMAL UNIT	NC NORMALLY CLOSED
CFH CUBIC FEET PER HOUR	NIC NOT IN CONTRACT
CGC CALIFORNIA GREEN CODE	NTS NOT TO SCALE
CLG CEILING	P&T PRESSURE & TEMPERATURE RELIEF
CLN CLEANOUT	POC POINT OF CONNECTION
CONT CONTINUATION	PRESS PRESSURE
COTG CLEAN OUT TO GRADE	PRV PRESSURE REDUCING VALVE
CPC CALIFORNIA PLUMBING CODE	PSI POUNDS PER SQUARE INCH
CW COLD WATER DOMESTIC	(R) REMOVE
D CONDENSATE OR EQUIPMENT DRAIN	RD ROOF DRAIN
DN DOWN	RWL RAIN WATER LEADER
(E) EXISTING	SD STORM DRAIN
ELEC ELECTRICAL DRAWINGS	SF SQUARE FEET
ELEV ELEVATION	SOV SHUT OFF VALVE
(F) FUTURE	SPEC SPECIFICATIONS
FCO FLOOR CLEAN OUT	STRUCTSTRUCTURAL DRAWINGS
FF FINISHED FLOOR ELEVATION	SW SOFTENED WATER
FL FLOW LINE	T24 CALIFORNIA ENERGY CODE
FD FLOOR DRAIN	TMV THERMOSTATIC MIXING VALVE
FS FLOOR SINK	TYP TYPICAL
FT FEET	U URINAL
G GAS LINE (FUEL GAS)	UL UNDERWRITERS' LABORATORIES, INC.
GAL GALLONS	UTR UP THROUGH ROOF
GPC GALLONS PER CYCLE	V SANITARY VENT
GPF GALLONS PER FLUSH	VB VACUUM BREAKER
GC GENERAL CONTRACTOR	VR VANDAL RESISTANT
GPM GALLONS PER MINUTE	VTR VENT THROUGH ROOF
HB HOSE BIBB	W SANITARY WASTE
HP HORSEPOWER	W.C. WATER COLUMN
HW HOT WATER DOMESTIC	WC WATER CLOSET
HWR HOT WATER RETURN DOMESTIC	WCO WALL CLEAN OUT
IW INDIRECT WASTE	WH WATER HEATER
KW KILOWATT	WHA WATER HAMMER ARRESTER
LAV LAVATORY	WM WATER METER
MBH THOUSAND BTU PER HOUR	WT WEIGHT
MFR MANUFACTURER	

SYMBOLS

— — WALL CLEAN OUT	⊕ 3 WAY CONTROL VALVE
● WATER HAMMER ARRESTOR	⊕ TRIPLE DUTY VALVE
○ PIPE DROP	⊕ UNION
○ PIPE RISER	⊕ STRAINER
⊕ POINT OF CONNECTION	⊕ SOV IN RISER
⊕ POINT OF DISCONNECTION	⊕ AUTOMATIC AIR VENT
--- WASTE	⊕ PRESSURE GAGE
--- VENT	⊕ THERMOMETER
⊕ FLOOR DRAIN	⊕ AQUASTAT
⊕ FLOOR SINK	⊕ FLOW SWITCH
⊕ PRESSURE & TEMPERATURE RELIEF VALVE	⊕ DIFFERENTIAL PRESSURE SWITCH
⊕ CHECK VALVE	⊕ CONDENSATE OR INDIRECT WASTE DRAIN
⊕ BALL VALVE	⊕ FLEXIBLE PIPE CONNECTOR
⊕ BALL VALVE/MEMORY STOP	⊕ FIRE
⊕ PRESSURE REDUCING VALVE	⊕ COLD WATER
⊕ AUTOMATIC BALANCING VALVE	⊕ HOT WATER
⊕ MANUAL SERVICE/BALANCING VALVE	⊕ HOT WATER RETURN
⊕ BUTTERFLY VALVE	⊕ GAS
⊕ 2 WAY CONTROL VALVE	⊕ DEMOLITION WORK

PLUMBING EQUIPMENT

TAG	TYPE	MIN CONNECTION SIZES & LOADS				SPECIFICATION		
		CW	HW	V-β	WATTS		AMPS	GAS
WH 1	GAS WATER HEATER	1-1/2"	1-1/2"	120-1	-	-	200	BRADFORD WHITE MODEL# EF-100T-199E-5N, 100 GALLON TANK, 97% THERMAL EFFICIENCY, 235 GPH AT 100°F TEMPERATURE RISE. ROUTE STAINLESS STEEL VENT AND AIR TO ROOF WITH FACTORY CONCENTRIC VENT TERMINATION.
CP 1	CIRCULATING SMART PUMP	-	-	115-1	70	1.02	-	BELL & GOSSETTE "ECOCIRC+ 20-18" PART#60B0B1001, STAINLESS STEEL FLANGE, CHECK VALVE, BLUETOOTH, INCLUDING TEMPERATURE CONTROL, AUTO-LEARN ADAPT & NIGHT MODE. SET TO PROPORTIONAL PRESSURE MODE.
SW 1	WATER SOFTENER	1-1/4"	1-1/4"	120-1	-	-	-	CULLIGAN HIGH EFFICIENCY SOFTENER - HE 1.25 SERIES - 16" DIAMETER MEDIA TANK, 24" DIAMETER BRINE TANK, RATED AT 21 GPM AT 15 PSI PRESSURE DROP.
ET 1	EXPANSION TANK	-	-	-	-	-	-	ANTROL THERM-X-TROL THERMAL EXPANSION TANK ST-C SERIES ASME MODEL #ST-12C, 6.4 GALLON, 12" BY 14"

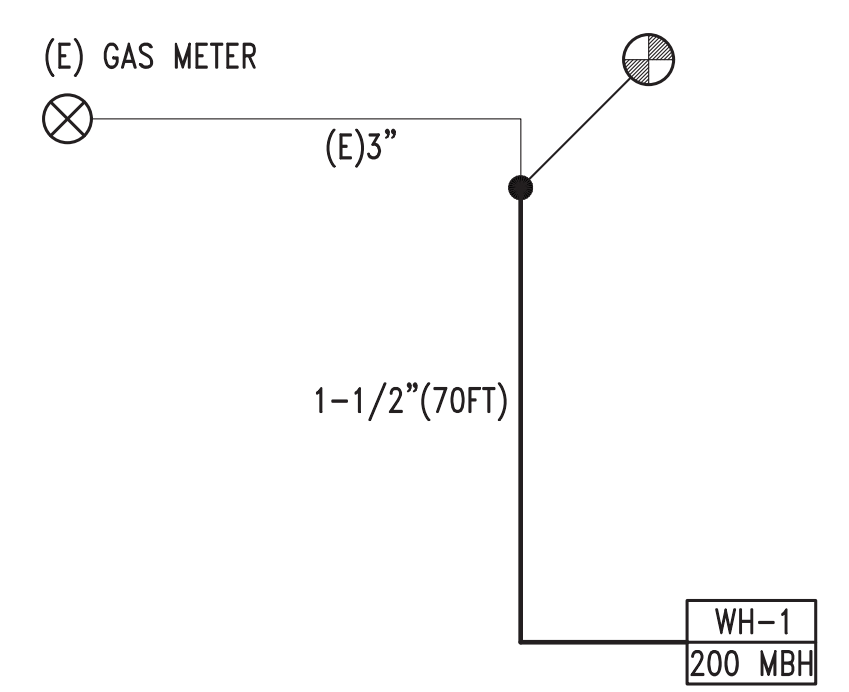
GREEN CODE WATER REDUCTION COMPLIANCE

- EFFECTIVE FLUSH OF WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH.
- NONRESIDENTIAL LAVATORY FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 0.5 GPM @ 60 PSI.
- NONRESIDENTIAL METERING LAVATORY FAUCETS SHALL NOT EXCEED 0.20 GALLONS PER CYCLE.
- BREAK ROOM SINK FAUCETS SHALL HAVE A MAXIMUM FLOW RATE OF 1.8 GPM @ 60 PSI.

NATURAL GAS PIPING SCHEMATIC

SIZES FOR PIPING ABOVE GRADE AND WITHIN THE BUILDING ARE PER 2019 CPC TABLE 1215.2(1).

TOTAL LOAD = 200 MBH
LONGEST RUN = 100 FT



TRAP ARM DISTANCE

HORIZONTAL LENGTHS OF TRAP ARMS ** (EXCEPT FOR WATER CLOSETS)		
TRAP ARM DIAMETER (INCHES)	MINIMUM TRAP TO VENT DISTANCE (INCHES)	MAXIMUM LENGTH (INCHES)
1-1/4	2-1/2	30
1-1/2	3	42
2	4	60
3	6	72
4	8	120
OVER 4	2 x DIAMETER	120

* MAINTAIN 1/4" PER FOOT SLOPE.
** THE DEVELOPED LENGTH BETWEEN THE TRAP OF A WATER CLOSET OR SIMILAR FIXTURE (MEASURED FROM THE TOP OF THE CLOSET FLANGE TO THE INNER EDGE OF THE VENT), AND ITS VENT SHALL NOT EXCEED 6 FT.

GENERAL NOTES

- BUILDING DRAIN AND VENT PIPING MATERIALS SHALL COMPLY WITH SECTION 701.0 AND 903.0 OF THE CALIFORNIA PLUMBING CODE.
- ALL SANITARY SYSTEM MATERIALS SHALL BE LISTED BY AN APPROVED LISTING AGENCY.
- EACH VENT SHALL RISE VERTICALLY TO A POINT NOT LESS THAN SIX INCHES ABOVE THE FLOOD-LEVEL RIM OF THE FIXTURE SERVED BEFORE OFFSETTING HORIZONTALLY OR BEFORE BEING CONNECTED TO ANY OTHER VENT.

FIRE PENETRATIONS

USE FIRE STOP BY HILTI OR 3M AT PIPE PENETRATIONS OF FIRE RATED ASSEMBLIES. FIRE STOP MATERIALS SHALL BE LISTED AND COMPATIBLE WITH THE PIPING MATERIALS. SEE ARCHITECT FOR THE LOCATION AND RATING OF FIRE ASSEMBLIES. SEE SHEETS M3.3 & M3.4 FOR RELATED DETAILS.

ACOUSTICS

EVERY PRECAUTION SHALL BE TAKEN TO INSTALL PLUMBING SYSTEMS IN SUCH A MANNER AS TO PREVENT SOUND TRANSMISSION. APPROPRIATE ISOLATION, INSULATION, LINTELS, FRAMES, BLOCKING, ESCUTCHEONS, GROUTING, GASKETS, PACKING, CAULKING, TAPPING, FILLING, ETC., ALL SHALL BE EMPLOYED TO PREVENT SOUND TRANSMISSION.

PLUMBING SHEET INDEX

- P1.1 ABBREVIATIONS, SYMBOLS & SCHEDULES
- P2.0 PLUMBING DEMOLITION PLANS
- P2.1 BASEMENT FLOOR PLUMBING PLAN
- P2.2 FIRST FLOOR PLUMBING PLAN
- P2.3 SECOND FLOOR PLUMBING PLAN
- P2.4 PLUMBING ROOF PLAN
- P3.1 WASTE & VENT RISER DIAGRAM - WEST
- P3.2 WASTE & VENT RISER DIAGRAM - EAST
- P3.3 DOMESTIC WATER RISER DIAGRAM
- P4.1 PLUMBING DETAILS & SPECIFICATIONS



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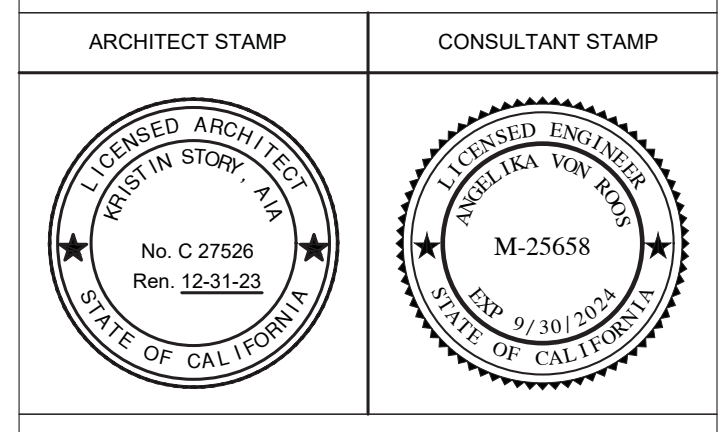
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AGENCY APPROVAL: CITY OF SANTA BARBARA. PERMIT #:

MILESTONE DATES:	
9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
04-22-24	PLANNING DEPT. SUBMITTAL

REVISIONS:

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT TITLE:

SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
Plumbing Spec's & Schedules
DATE: 04-22-24

DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201

P-1.1

DEMOLITION NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF ANY DEMOLITION INDICATED ON DRAWINGS.
2. SEE ARCHITECT'S DEMOLITION PLANS FOR SCOPE OF WORK. DEMOLITION DRAWINGS ARE SCHEMATIC, BASED ON CURSORY FIELD OBSERVATION. REPORT ALL DISCREPANCIES TO ARCHITECT BEFORE DISTURBING EXISTING WORK.
3. SEE DIVISION 1 SPECIFICATIONS FOR CONTRACTOR'S CONDITIONS OF ACCEPTANCE OF EXISTING CONDITIONS.
4. COORDINATE UTILITY OUTAGES WITH ALL AFFECTED PARTIES, INCLUDING THE UTILITY COMPANIES, OWNER AND OCCUPANTS OF BUILDINGS. VERIFY CONSTRUCTION PHASING WITH ARCHITECT.
5. REMOVE, RELOCATE AND EXTEND EXISTING WORK TO ACCOMMODATE NEW CONSTRUCTION.
6. ISOLATE FIXTURES AND EQUIPMENT TO BE REMOVED BY SHUTTING OFF MAINS OR PROVIDING NEW ISOLATION VALVES AS REQUIRED. DRAIN ALL WATER PIPING BEFORE REMOVING PIPING. REMOVE ALL UNUSED WATER PIPING AND CAP AT NEAREST ACTIVE BRANCH TEE. DO NOT LEAVE DEAD END RUNS. DISINFECT AND FLUSH ENTIRE POTABLE WATER SYSTEM OF ANY DOMESTIC SYSTEM WHERE CROSS CONNECTION IS SUSPECTED TO HAVE OCCURRED.
7. REMOVE ANY ABANDONED ABOVE GRADE WORK FROM THIS AND PRIOR WORK.
8. PIPING BELOW GRADE MAY BE ABANDONED IN PLACE, PROVIDED IT DOES NOT INTERFERE WITH NEW WORK. CAP WASTE BELOW FLOOR AND REMOVE UNUSED VENT PIPING TO ROOF OR CAP AT NEAREST ACTIVE BRANCH TEE. PATCH AND REPAIR DEMOLISHED AREAS.
9. PROTECT EXISTING STRUCTURE AND WORK FROM DAMAGE DURING DEMOLITION.
10. CLEAN AND REPAIR EXISTING MATERIALS AND EQUIPMENT TO BE RELOCATED OR REUSED.
11. IF HAZARDOUS MATERIALS ARE A PART OF THIS PROJECT, COORDINATE REMOVAL OF WORK WITH HAZARDOUS MATERIALS DEMOLITION CONTRACTOR.
12. CAREFULLY REMOVE FIXTURES AND EQUIPMENT. PROVIDE OWNER THE OPTION OF SALVAGING ANY EQUIPMENT OR MATERIALS BEING REMOVED.

KEYNOTES

- 1 REMOVE ALL EXISTING PLUMBING FIXTURES, EQUIPMENT AND ASSOCIATED PIPING INCLUDING EMERGENCY SHOWERS, EYEWASH STATIONS.
- 2 REMOVE WATER HEATERS & PUMPS
- 3 REMOVE ACID NEUTRALIZER AND FLOOR SINKS
- 4 REMOVE VALVE ASSEMBLIES AND ALL PIPING FROM THIS AND PRIOR WORK.

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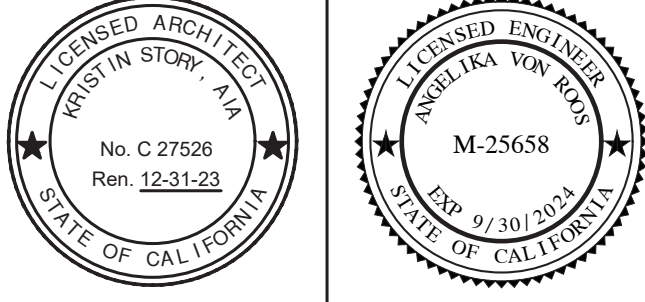
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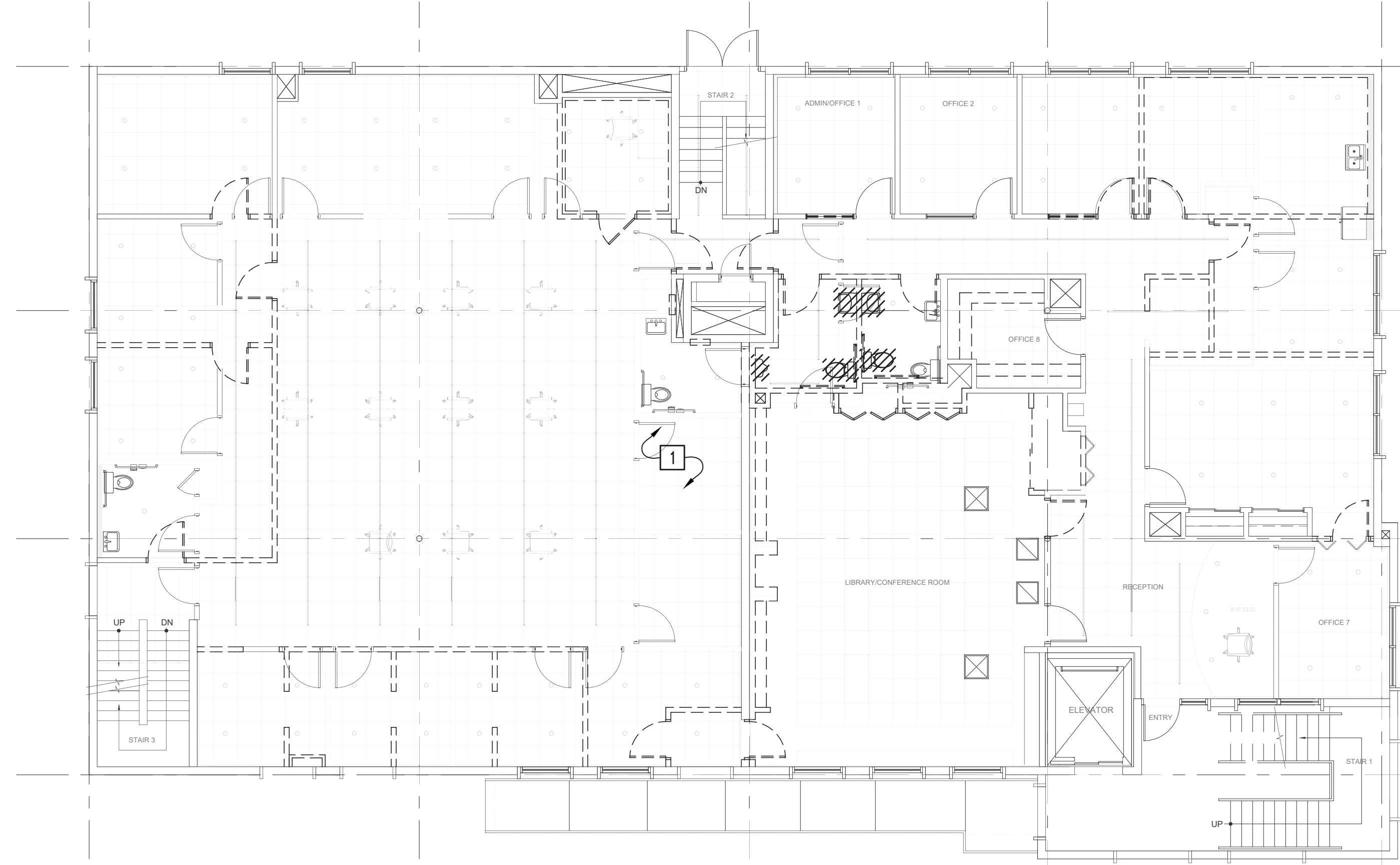
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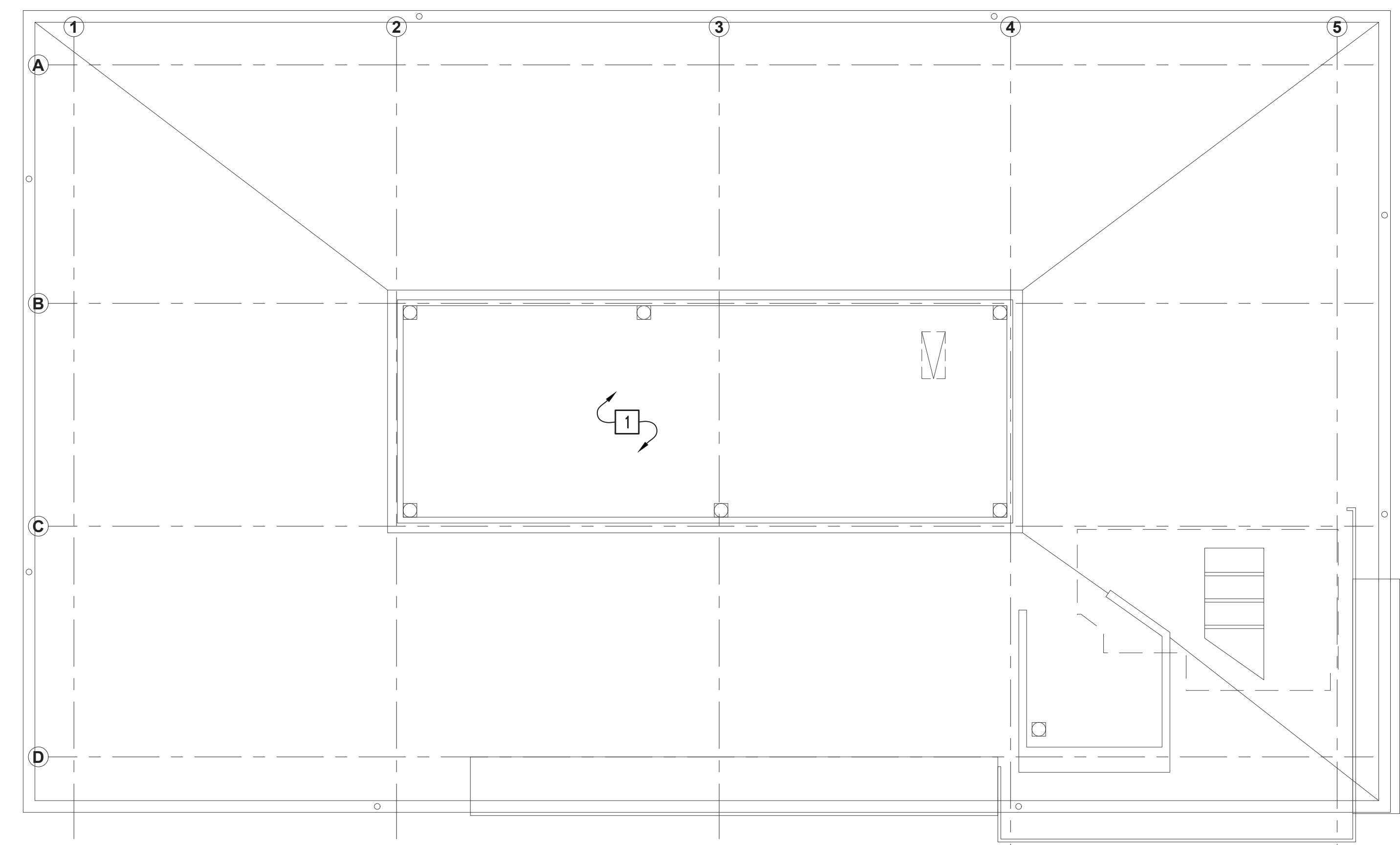
SHEET TITLE:
**Plumbing
DemolitionPlans**
DATE: 04-22-24
DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201

P-2.0



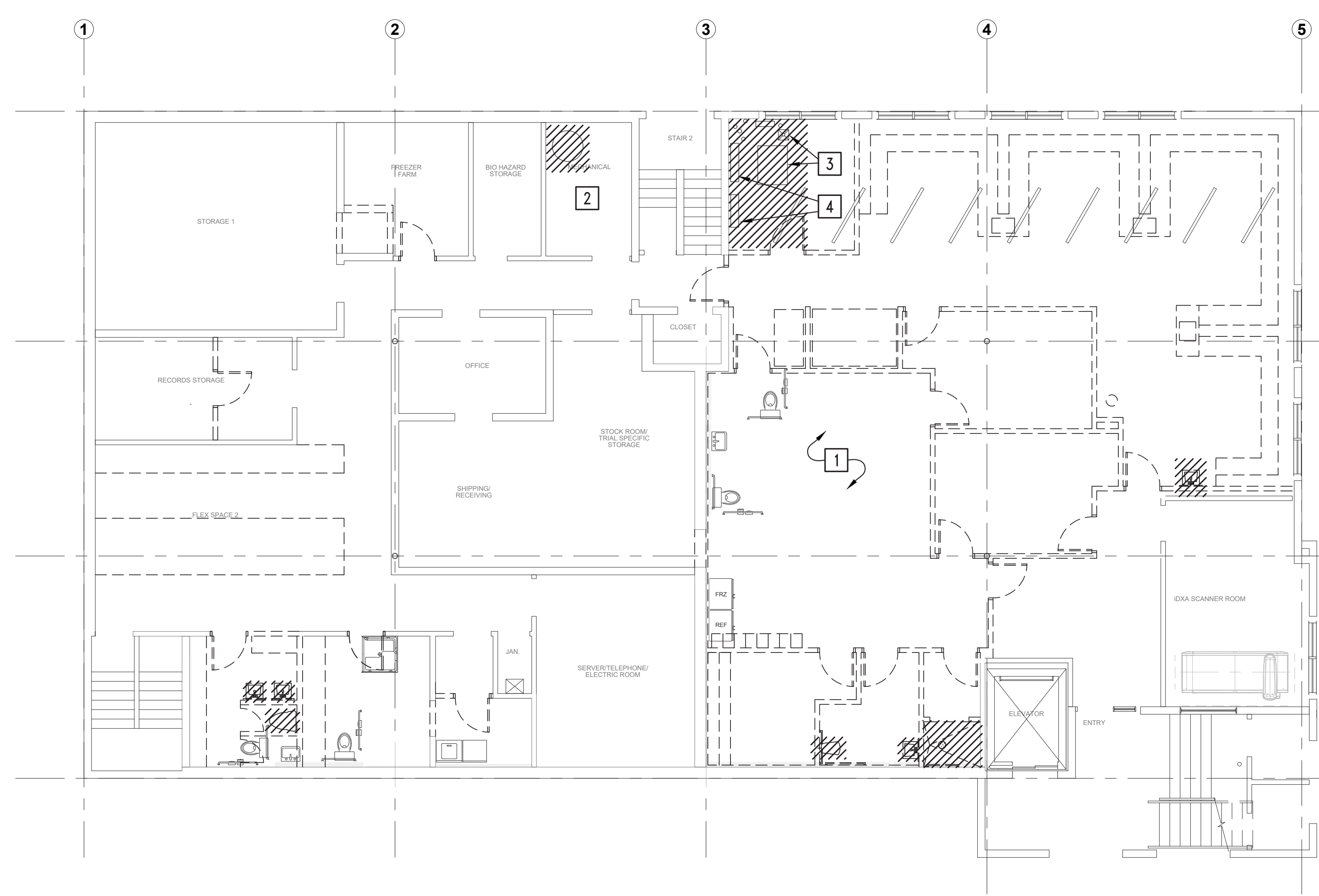
FIRST FLOOR PLUMBING DEMO PLAN

1/8" = 1'-0"



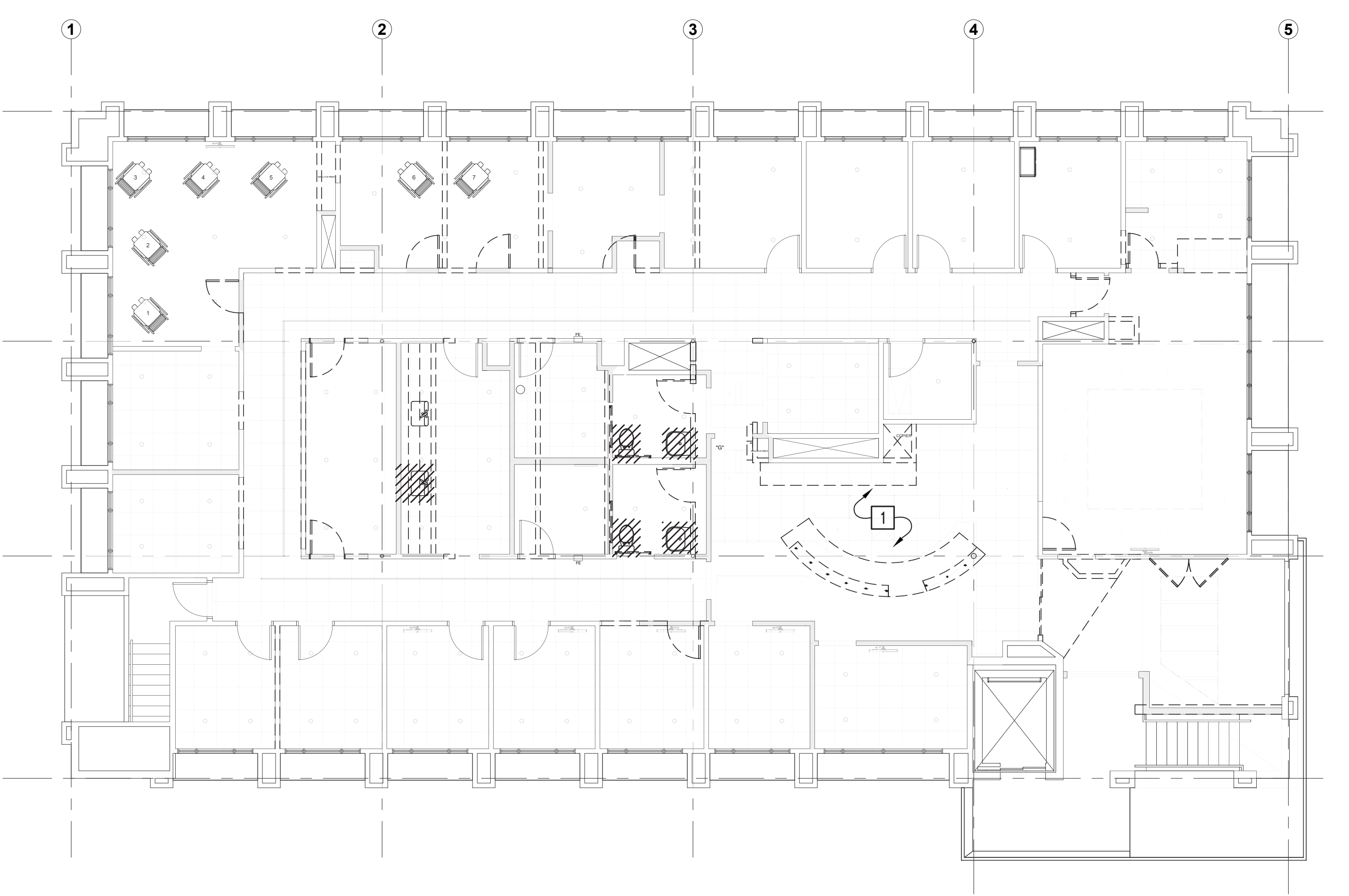
ROOF PLUMBING DEMO PLAN

1/8" = 1'-0"



BASEMENT PLUMBING DEMO PLAN

1/8" = 1'-0"

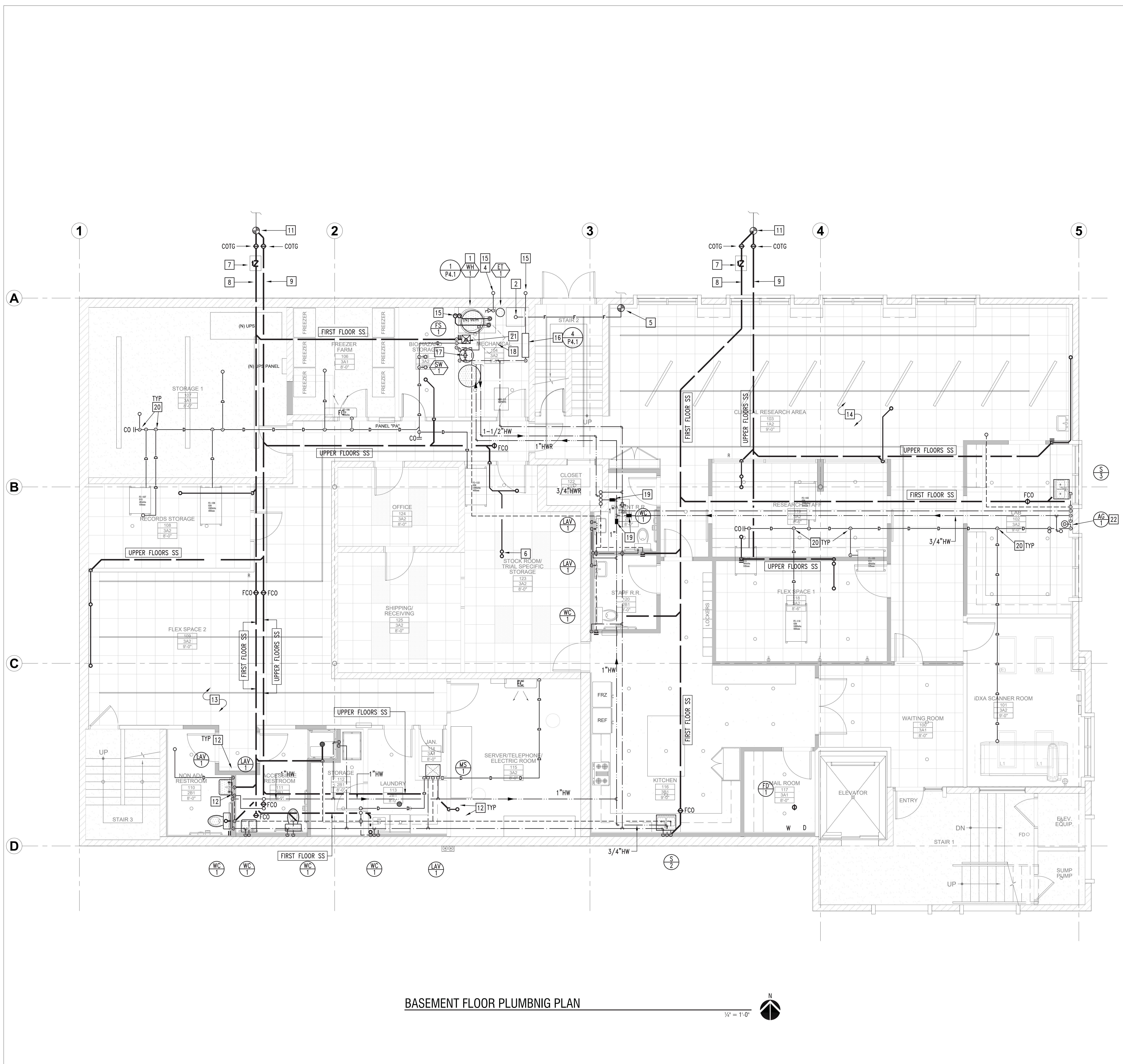


SECOND FLOOR PLUMBING DEMO PLAN

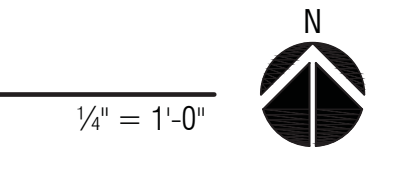
1/8" = 1'-0"

KEYNOTES

- 1 NEW WATER HEATER AND RECIRCULATION PUMP.
- 2 PROPOSED LOCATION OF RELOCATED FIRE RISER ASSEMBLY WITH DRAIN TO FS.
- 3 ROUTE INDIRECT WASTE FROM SW, WH AND VALVE ASSEMBLIES ALONG WALL TO FS WITH 1" MINIMUM AIR GAP.
- 4 MAIN GAS SUPPLY.
- 5 POC TO EXISTING FIRE WATER SUPPLY.
- 6 FOR CONTINUATION SEE SHEET P2.2.
- 7 NEW BACKWATER VALVE.
- 8 SANITARY SEWER LATERAL SERVING THE FIRST FLOOR.
- 9 SANITARY SEWER LATERAL SERVING THE SECOND AND THIRD FLOORS.
- 10 ROUTE INDIRECT WASTE THRU BACKWATER VALVE. ALL OTHER WASTE MUST BYPASS THE VALVE.
- 11 POINT OF CONNECTION TO EXISTING SANITARY SEWER LATERAL. REPAIR OR REPLACE AS REQUIRED.
- 12 ROUTE CONDENSATE DRAIN FROM FAN COIL PUMP DISCHARGE TO SINK TAIL PIECE.
- 13 SEE WASTE AND VENT RISER DIAGRAMS ON SHEETS P3.1 AND P3.2 FOR PIPE SIZES.
- 14 SEE DOMESTIC WATER RISER DIAGRAM ON SHEET P3.3 FOR ADDITIONAL PIPE SIZES.
- 15 FOR CONTINUATION SEE SHEET P2.2.
- 16 PRV ASSEMBLY.
- 17 LINE SIZE BALL VALVE BYPASS VALVE AT SW.
- 18 REQUIRED WH SERVICE CLEARANCE.
- 19 "CIRCUIT SOLVER" BY THERM-OMEGA-TECH.
- 20 ROUTE CONDENSATE DRAIN FROM FAN COIL TO TOP OF COLLECTOR DRAIN.
- 21 ROUTE 1-1/2" CONDENSATE COLLECTOR INDIRECT DRAIN TO FLOOR SINK.
- 22 ROUTE 1-1/4" CONDENSATE COLLECTOR INDIRECT DRAIN TO AIR GAP FITTING IN ACCESSIBLE LOCATION BELOW THE COUNTER.



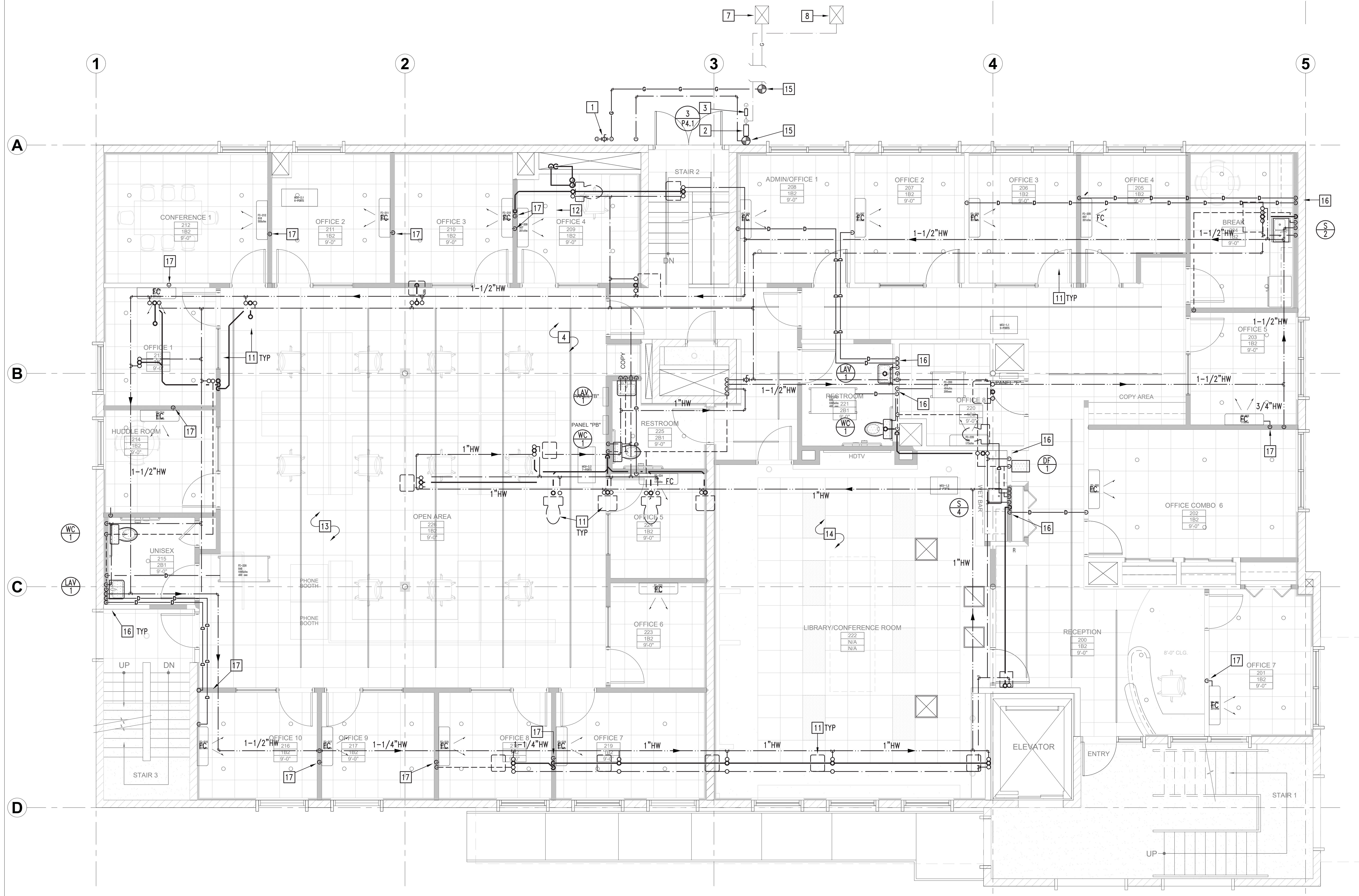
BASEMENT FLOOR PLUMBING PLAN



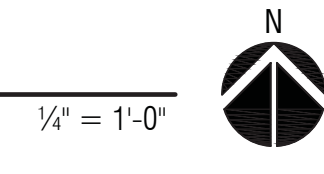
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 PLOT DATE: Apr 22, 2024 - 9:56am
 PLOT BY: Tom

KEYNOTES

- 1 MAIN NATURAL GAS SEISMIC SHUT OFF VALVE SECURED TO THE STRUCTURE WITH ISOLATION VALVES.
- 2 EXISTING MAIN DOMESTIC BACKFLOW PREVENTER. TEST, REPAIR OR REPLACE AS REQUIRED.
- 3 EXISTING IRRIGATION BACKFLOW PREVENTER.
- 4 ROUTE CONDENSATE DRAIN FROM FAN COIL PUMP TO SINK TAILPIECE.
- 5 FOR CONTINUATION SEE SHEET P2.1.
- 6 SANITARY SEWER LATERAL SERVING THE FIRST FLOOR.
- 7 EXISTING WATER METER IN SIDEWALK VAULT. FIELD VERIFY EXACT LOCATION.
- 8 EXISTING GAS METER IN SIDEWALK VAULT. FIELD VERIFY EXACT LOCATION.
- 9 EXISTING SANITARY SEWER LATERAL SERVING THE WEST SECTION OF THE BUILDING.
- 10 FOR CONTINUATION SEE SHEET P2.3.
- 11 OUTLINE OF PLUMBING FIXTURE ABOVE.
- 12 WH VENT AND INTAKE TO ROOF.
- 13 SEE WASTE AND VENT RISER DIAGRAMS ON SHEETS P3.1 AND P3.2 FOR PIPE SIZES.
- 14 SEE DOMESTIC WATER RISER DIAGRAM ON SHEET P3.3 FOR ADDITIONAL PIPE SIZES.
- 15 POC TO EXISTING. FIELD VERIFY EXACT LOCATION.
- 16 ROUTE CONDENSATE DRAIN FROM FAN COIL TO SINK TAILPIECE. PROVIDE PUMP IF REQUIRED AND NOT INTEGRAL TO THE UNIT.
- 17 ROUTE CONDENSATE DRAIN FROM FAN COIL DOWN TO COLLECTOR PIPE ON LOWER FLOOR.



FIRST FLOOR PLUMBING PLAN



Drawing name: E:\SAN-Sansum\SAN2201_SanDiabetes\SAN2201-Dwg\SAN2201-P2.2.dwg
 PLOT DATE: Apr 22, 2024 - 9:56am
 PLOT BY: Tom

KEYNOTES

- 1 ROUTE CONDENSATE DRAIN FROM FAN COIL PUMP TO SINK TAILPIECE.
- 2 FOR CONTINUATION SEE SHEET P2.2.
- 3 SEE WASTE AND VENT RISER DIAGRAMS ON SHEETS P3.1 AND P3.2 FOR PIPE SIZES.
- 4 ROUTE VTR. OFFSET AS REQUIRED TO MAINTAIN A MINIMUM 10FT SEPARATION FROM INTAKES.
- 5 SEE DOMESTIC WATER RISER DIAGRAM ON SHEET P3.3 FOR PIPE SIZES.
- 6 ROUTE CONDENSATE DRAIN FROM FAN COIL TO SINK TAILPIECE. PROVIDE PUMP IF REQUIRED AND NOT INTEGRAL TO THE UNIT.

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ARCHITECT STAMP	CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA. PERMIT #:

MILESTONE DATES:

9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
04-22-24	PLANNING DEPT. SUBMITTAL

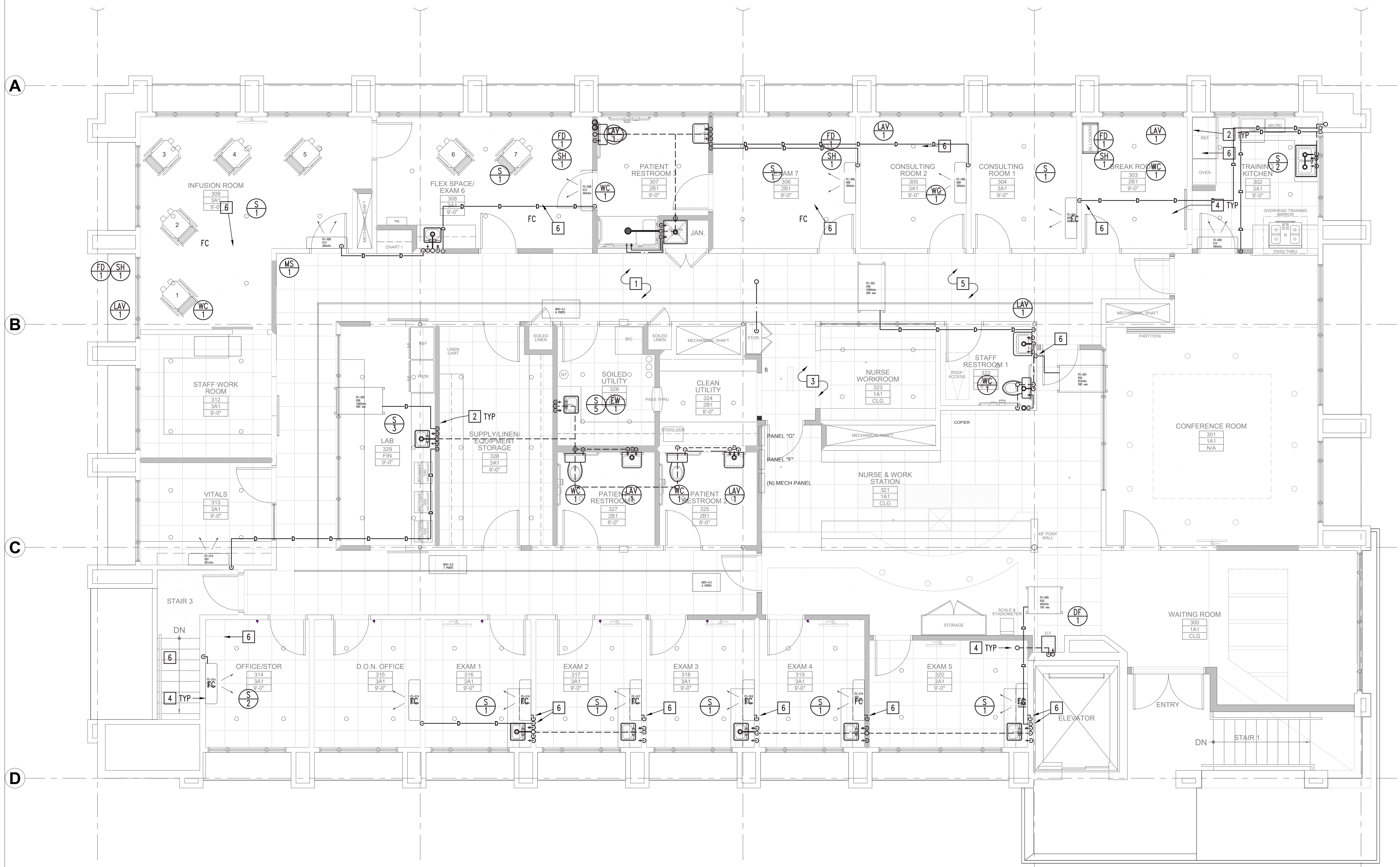
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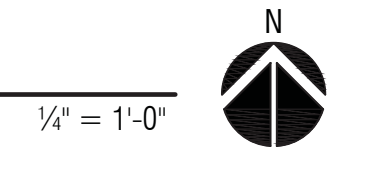
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SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
Second Floor Plumbing Plan
DATE: 04-22-24
DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201

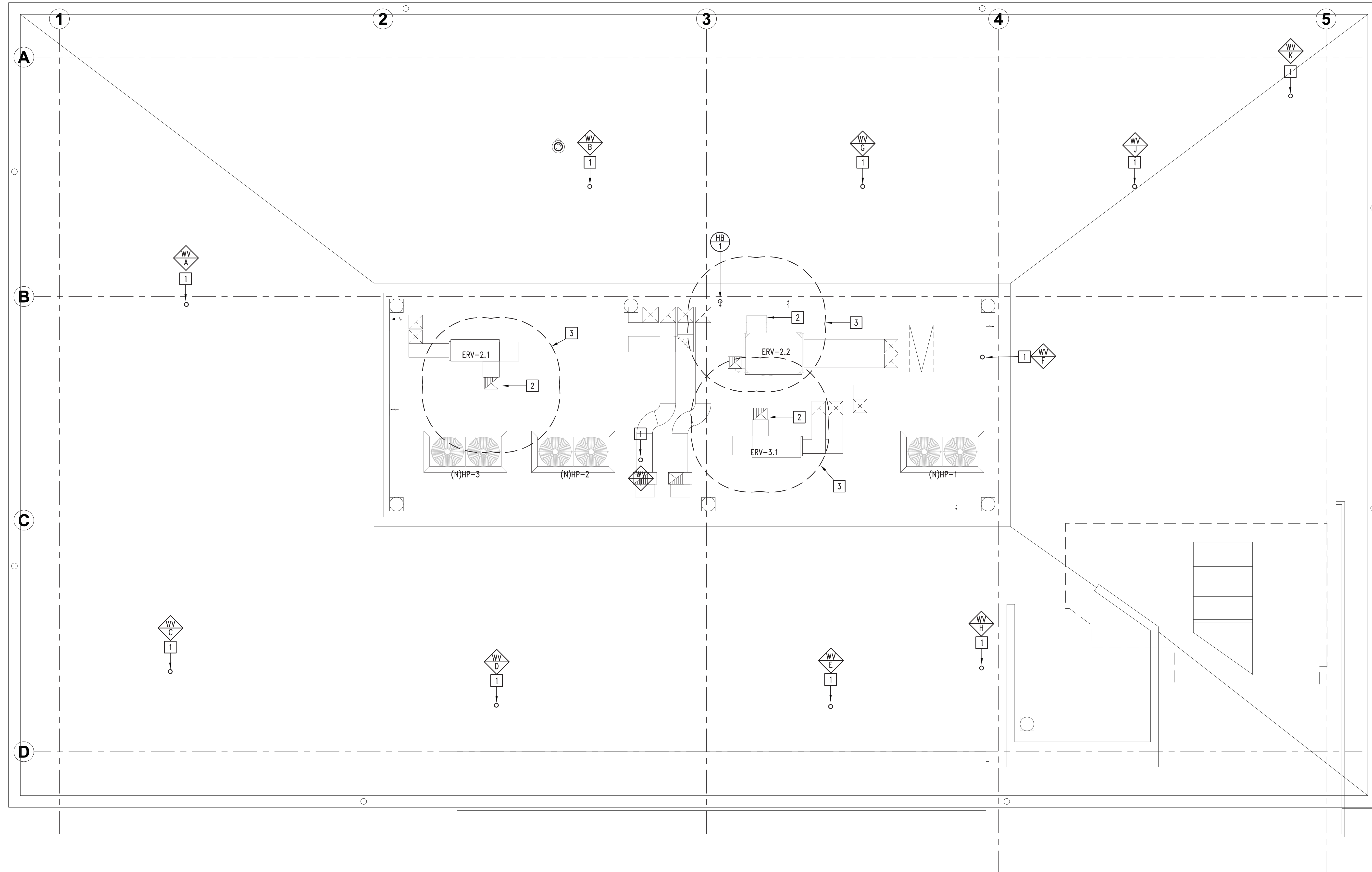
P-2.3




SECOND FLOOR PLUMBING PLAN



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 PLOT DATE: Apr 22, 2024 - 9:56am
 PLOT BY: Tom



PLUMBING ROOF PLAN

1/4" = 1'-0" 

KEYNOTES

- 1 VENT THRU ROOF. SEE WASTE & VENT RISER DIAGRAMS ON SHEET P3.1 AND P3.2.
- 2 OUTSIDE AIR INTAKE.
- 3 BOUNDARY OF VENT EXCLUSION ZONE.

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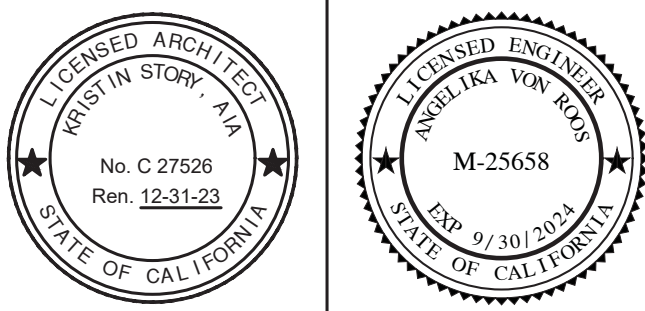
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10-2-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
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PROJECT TITLE:

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93105

SHEET TITLE:

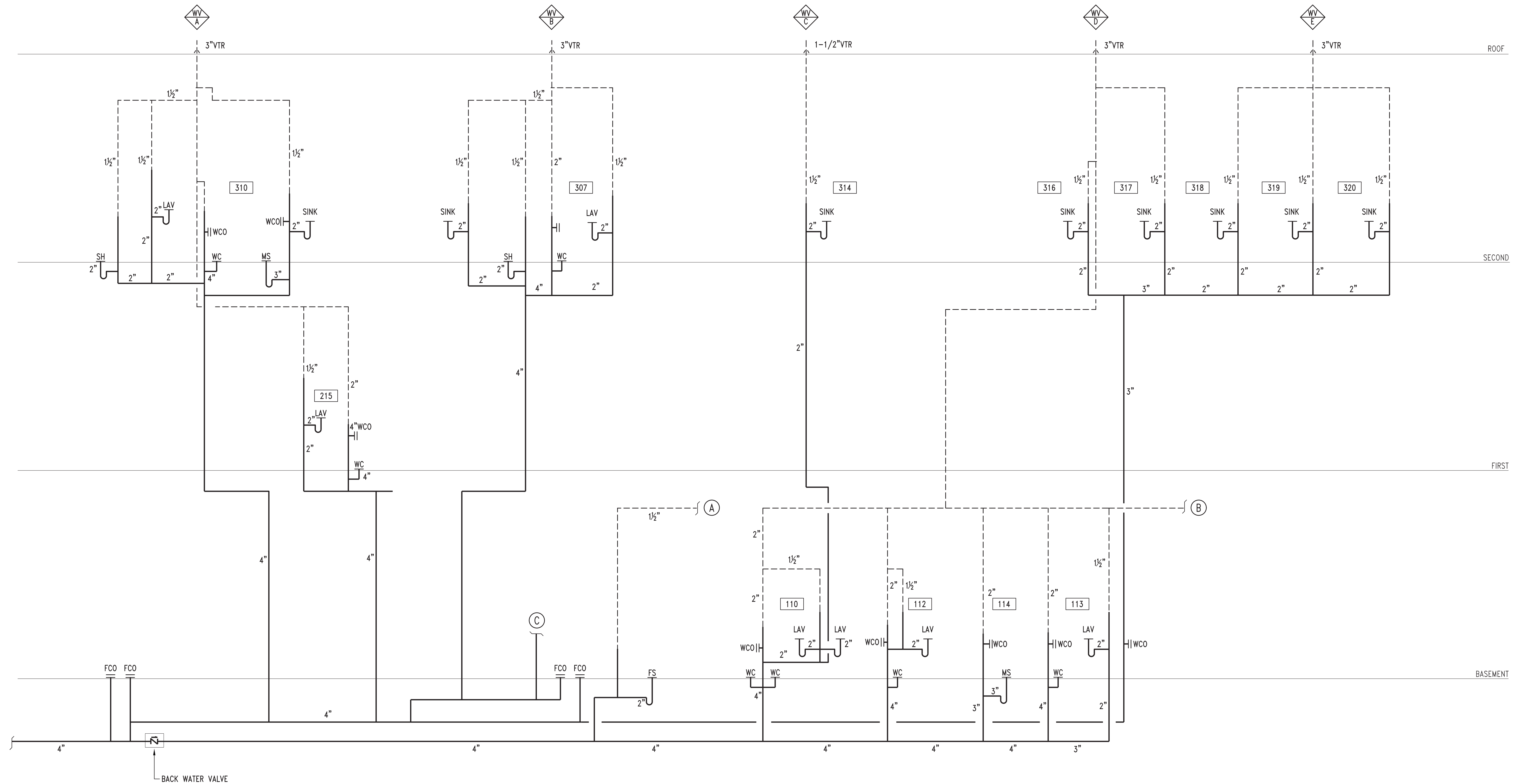
Plumbing Roof Plan

DATE: 04-22-24

DRAWN BY: TDH, LLA

JOB NUMBER: SAN-2201

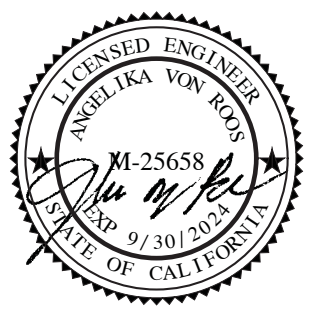
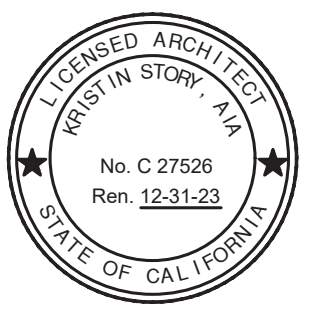
P-2.4



WASTE & VENT RISER DIAGRAM - WEST

NTS

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PERMIT #:

MILESTONE DATES:
08-15-23 1ST PERMIT SUBMITTAL

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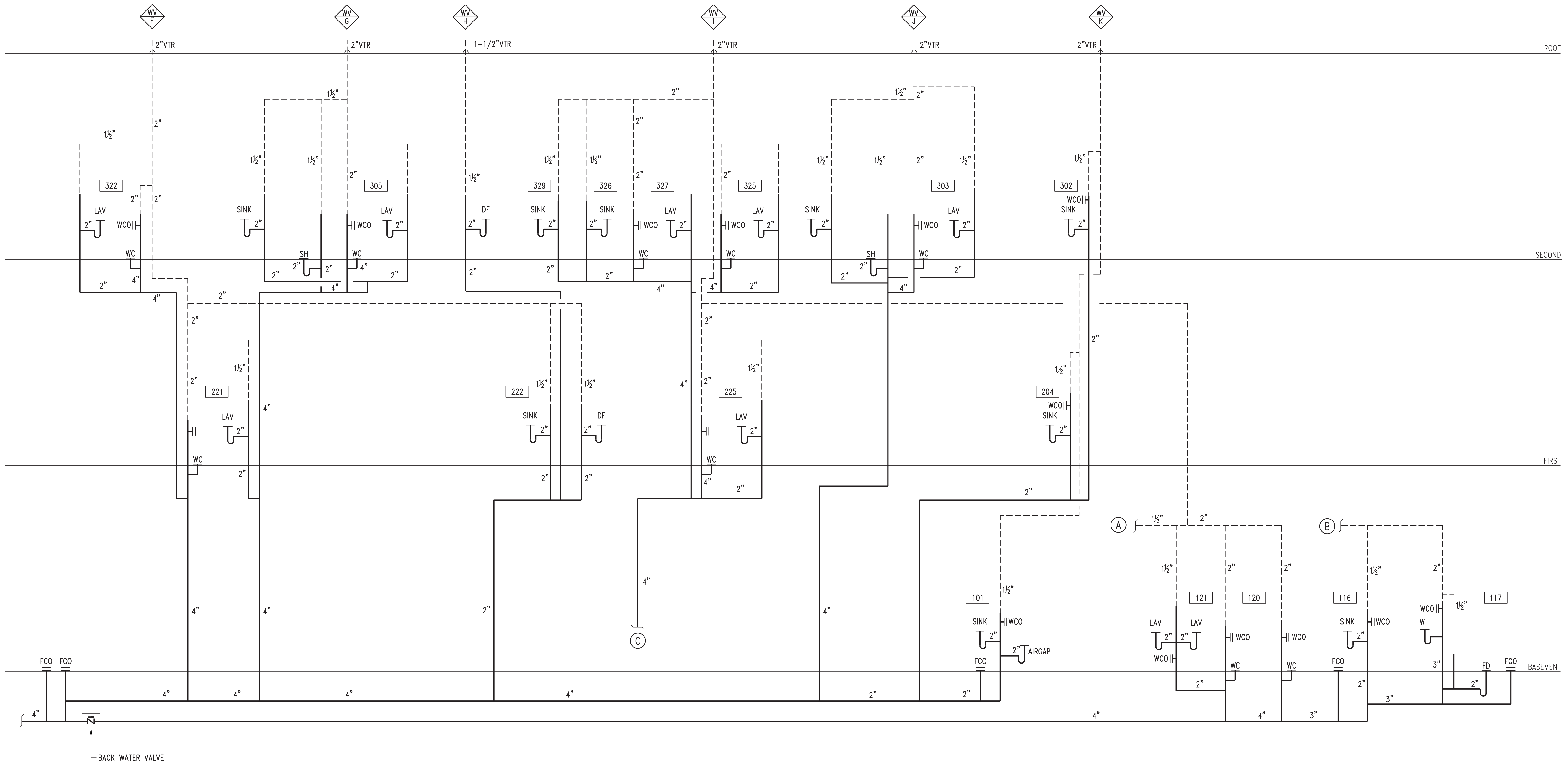
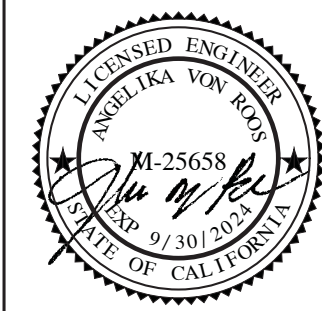
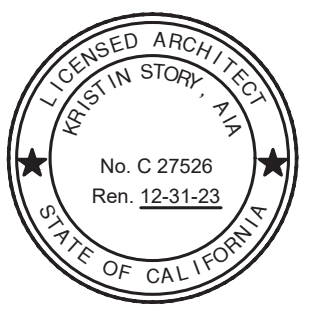
**SANSUM DIABETES
RESEARCH
INSTITUTE**
2219 BATH STREET
SANTA BARBARA, CA
93105

SHEET TITLE:
**Waste & Vent
Riser Diagram - West**
DATE: 09-07-23

DRAWN BY: TDH, LLA

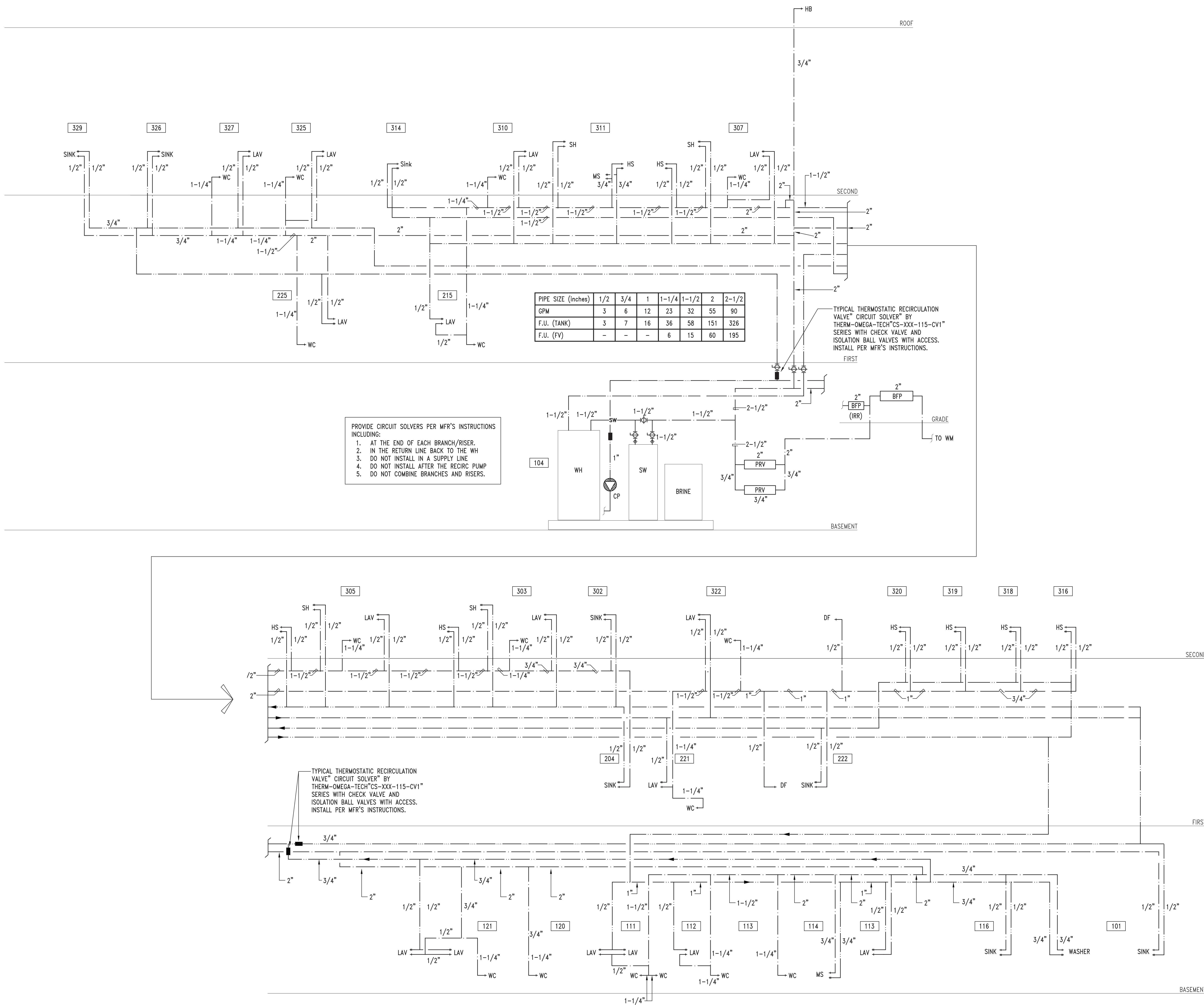
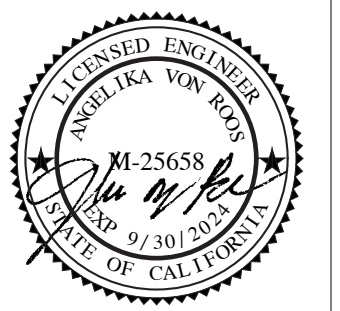
JOB NUMBER: SAN-2201

P-3.1



WASTE & VENT RISER DIAGRAM - EAST

NTS



DOMESTIC WATER RISER DIAGRAM

NTS

Drawing name: E:\SAN\Sansum\SAN2201_SanDiabetes\SAN2201-Dwg\SAN2201-P3.3.dwg
 PLOT DATE: Sep 07, 2023 - 8:14am
 PLOT BY: Tom

SPECIFICATIONS

PART 1 — GENERAL

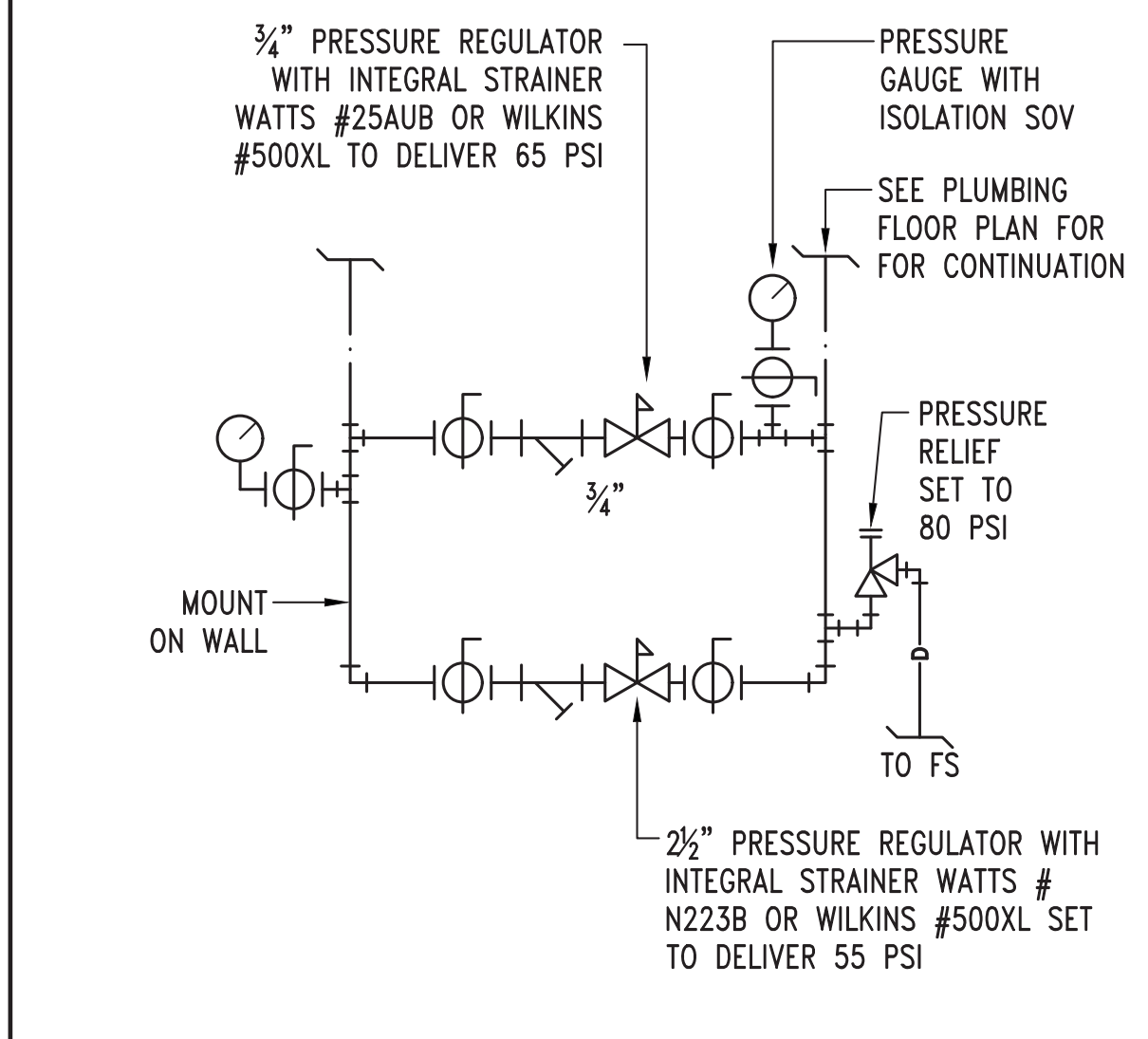
- 1.1 WORK
 - A. Provide and install plumbing as shown on the Drawings and as specified herein. The Work shown on Drawings is diagrammatic. Vary piping and locate equipment as required to avoid structure and other interferences as approved by the Architect.
 - B. Plumbing Includes:
 1. Hot and cold water distribution systems.
 2. Waste drains and vents.
 3. Gas piping.
 4. Plumbing fixtures.
 5. Roof drainage.
 - C. Plumbing fixtures shall be as shown on the Architectural Drawings and specifications. Work includes trim and related construction as required. See owner for plumbing fixture specifications. Contractor to purchase and install.
- 1.2 QUALITY STANDARDS
 - A. Provide experienced, well-trained workers competent to complete the work as specified.
 - B. Unless approved by the Architect, provide related products and accessories from one manufacturer.
 - C. All work shall comply with manufacturer's instructions and governing building and safety codes, including the currently adopted California Plumbing Code, California Green Code, and the California Energy Code, Mandatory Requirements for Appliances:
 - a. Any appliance regulated by the Appliance Efficiency
 - b. Regulations, Title 20 California Code of Regulations. Install appliances only fully compliant.
- 1.3 SUBMITTALS
 - A. Submit the following after receiving the Notice to Proceed.
 1. Submit list of materials to be provided for this work.
 2. Submit manufacturer's specifications required to prove compliance with these specifications.
 3. Submit manufacturer's installation instructions.
 4. Submit Shop Drawings as required with complete details and assembly instructions.
 5. Submit samples of proposed exposed finishes and fixtures for approval by the Architect.
 - B. At the time of final inspection, a manual or compact disc which includes all of the following shall be placed in the building:
 1. Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
 2. Manufacturer's installation, operation, maintenance instructions, and warranty information for plumbing fixtures, plumbing equipment and systems, water heating systems, etc.
- 1.4 MATERIALS HANDLING
 - A. Provide all materials required to complete the work as shown on Drawings and specified herein. Deliver, store, and transport materials to avoid damage to the product or to any other work. Reject and return any products or materials delivered in a damaged or unsatisfactory condition. Materials and products delivered will be certified by the manufacturer to be as specified.
 - B. Store materials indoors, protected from dirt, moisture, contaminants, and weather.
- 1.5 PRECONSTRUCTION AND PREPARATION
 - A. Examine and verify that job conditions are satisfactory for speedy and acceptable work. Maintain and use up-to-date trade standards and manufacturer's instructions.
 - B. Verify utilities, site conditions and points of connection. Camera test the sanitary sewer lateral if existing to confirm it is in good working order. Repair or replace as required.
 - C. Confirm there are no conflicts between this work and work of other trades. All work shall be in accordance to local and State Codes. Confirm that work of other trades that must precede this work has been completed. Meet all requirements to secure warranty.
 - D. Notify Architect when work is scheduled to be installed. Use agreed schedule for installation and for field observation by Architect.

PART 2 — MATERIALS

- 2.1 GRAVITY SANITARY SEWER, WASTE & VENT PIPING
 - A. Building drain and vent piping materials shall comply with UPC 701 and 903, and shall be listed by an approved listing agency.
 - B. Sanitary sewer & waste piping shall be made in the USA cast iron pipe, fittings and joints per ASTM A74, ASTM A888, and CISP1 301. Fittings shall be hubless cast iron, service weight per CISP1 310, neoprene gaskets and stainless steel clamp-and-shield assemblies.
 - C. Sanitary Sewer piping below grade within 5 feet of the building and when ABS is not allowed, the sanitary sewer, waste and vent piping shall be made in the USA cast iron pipe; CISP1 301, hubless with MG couplings, where soils are reactive, and with stainless steel clamp and shield assemblies, where soils are non-reactive.
 - D. Floor Cleanouts: polished nickel bronze non-skid adjustable top in carpeted areas by J.R. Smith or Zurn.
 - E. Dry Wall Cleanouts: Prime coated steel cover or wall type by J.R. Smith or Zurn.
 - F. Non Dry Wall Cleanouts: chrome plated cover and screws with wall thickness adequate to conceal.
- 2.2 RAINWATER PIPING
 - A. Storm drainage piping: Same as sanitary sewer piping.
- 2.3 INDIRECT WASTE AND CONDENSATE DRAIN PIPING
 - A. Indirect waste shall be Type L copper DWV piping with, wrought copper fittings, and Grade 9218 soldered joints.
 - B. When serving condensing equipment where acidic waste is produced, indirect waste piping shall be CPWC with solvent joints.
 - C. Insulate piping where pipes may sweat.
- 2.4 WATER SUPPLY
 - A. Water supply piping above grade and within the building line shall be: Copper tubing, Type L, ASTM B-88, hard drawn, cast brass or wrought copper fittings, soldered joints. Ball Valves: Full port, low lead, bronze with minimum 150 PSI rating, quarter turn by Nibco or approved equal in accordance with ASME A112.1.4, ASME B16.24, ASTM F1070, ASTM F 2389, ANNA 5200, ANNA 5204, ANNA 5207, CSA b125.3, MSS SP80, MSS SP110 MSS SP122 or NSF 358.
- 2.6 GAS SUPPLY
 - A. Natural gas piping below grade below the building line and uGL under hardscape shall be polyethylene Pipe ASTM D2513, SDR 11.5, with ASTM D2683 socket fittings, and fusion welded joints. Provide continuous tracer wire with ends secured to risers. Provide electrically continuous corrosion-resistant blue insulated copper tracer wire with ends secured to risers.
 - B. Provide proper grounding of the electrical system and equipotential bonding of all metallic systems in accordance with NFPA 70.
 - C. Natural gas piping below grade below the building and under hardscape shall be: OmegaFlex, Inc. "FlexPipe" PS-111 ASTM A240 stainless steel tubing factory sleeved with polyethylene with vent channels, yellow brass fittings. All buried metallic parts shall be wrapped with Code approved metallic wrap. Provide manufacturer's strike plates as necessary. Route dedicated vent to roof. Installer shall have successfully trained through the TracPipe manufacturer's installation program. Install per manufacturer's installation instructions and recommendations.
- 2.8 NATURAL GAS PIPING ABOVE GRADE AND WITHIN THE BUILDING LINE SHALL BE MADE IN THE USA STEEL, Schedule 40 black, malleable iron or forged steel fittings, with screwed or welded joints for interior and galvanized for exterior applications. Provide clearly marked, easily accessible, and tested shut off valves as required by the building code.
- 2.9 PROVIDE A PRESSURE RELIEF VALVE WHICH VENTS TO OUTDOORS WHEN THE GAS SUPPLY PRESSURE IS GREATER THAN 2 PSI FOR PIPING SYSTEMS DESIGNED TO OPERATE AT 14 INCHES WATER COLUMN OR LESS.
- 2.10 GAS PIPING ON THE ROOF SHALL BE ELEVATED AND SUPPORTED IN ACCORDANCE WITH CPC TABLE 1210.3.5.1.
- 2.7 WATER HEATERS
 - A. Provide and install automatic water heaters as shown on the Drawings. Provide pressure and temperature relief valve piped to exterior, seismic bracing, and an expansion tank per CPC. Provide 24" reinforced flexible, braided stainless steel, or polymer braided with EPDM core connectors to the piping system in accordance with ASME A112.18.6/CSA B125.6
- 2.8 PIPING INSULATION
 - A. Provide and install piping insulation on entire hot water piping system, including run outs, and in accordance with Title 24 and the CPC Section 609.11. AP Armaflex or Manville insulation with minimum wall thickness of not less than the diameter of the pipe up to 2 inches and not less than 1" wall thickness. 0.25 BTU-in/hr per square foot per degree F and with flame spread and smoke rating not exceeding 25/50 per ANSI/ASTM-E-84, NFPA 225 or UL 723. Provide PVC jacketing where exposed inside the building and aluminum jacketing where exposed on exterior of the building. Provide jacketing on all components including valves and fittings.
- 2.9 PLUMBING FIXTURES
 - A. Install plumbing fixtures which reduce the overall use of potable water within the building by a least 20 percent in compliance with California's Green Code, Title 24, Part 11, Chapter 4. Provide the required trim, and related construction.
 - B. Provide and install accessible fixtures in compliance with the American's with Disabilities Act.
- 2.10 LEAD FREE
 - A. Domestic water plumbing systems and components shall be lead free in compliance with California's Health and Safety Code and CPC.
- 2.11 VOLATILE ORGANIC COMPOUNDS (VOC)
 - A. Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits per CDBS Section 4.504.

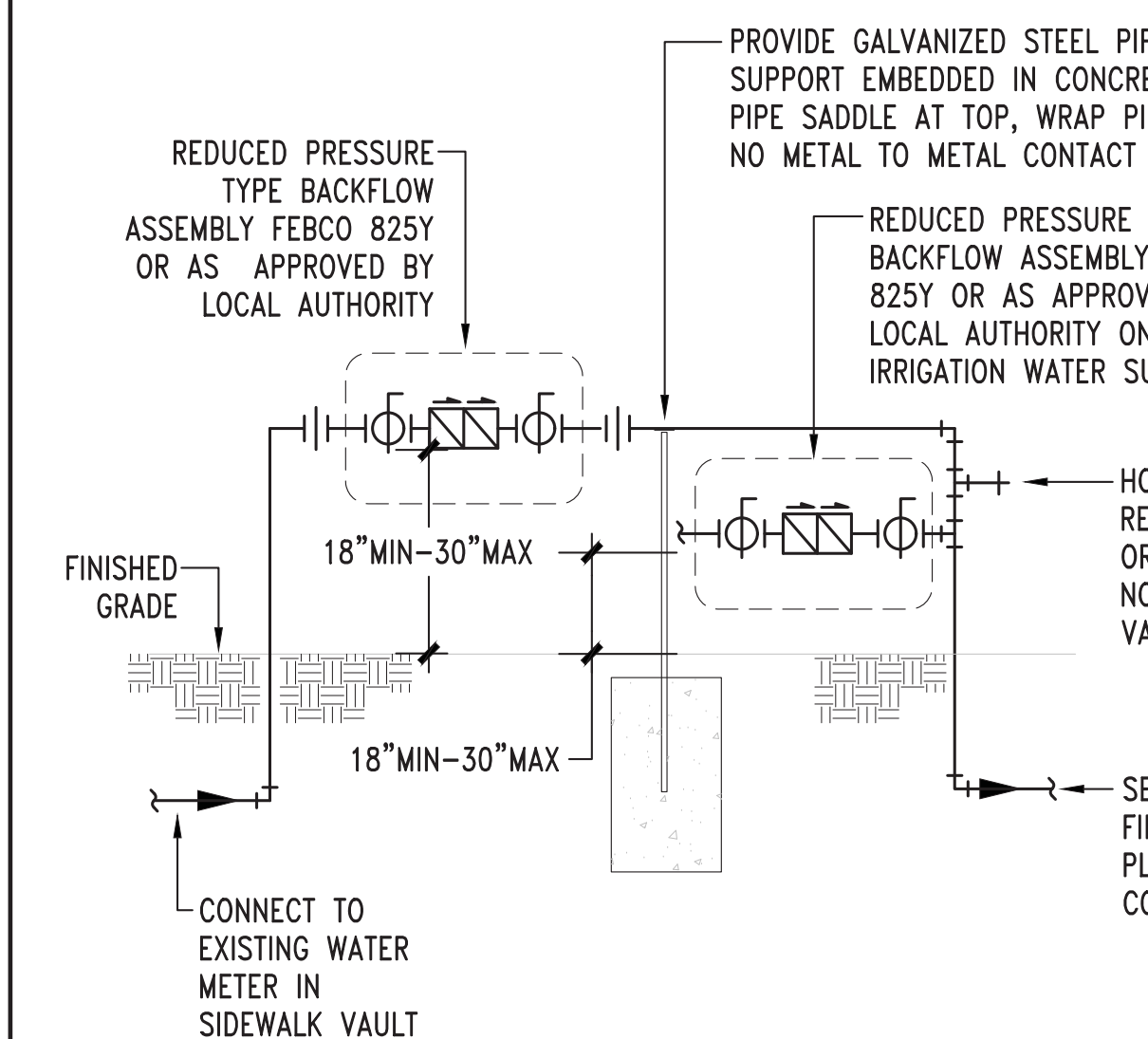
PART 3 — CONSTRUCTION AND INSTALLATION

- 3.1 WORK CONDITIONS
 - A. Correct any conditions not in compliance with Section 1.5.A, noted above.
 - B. All work conditions shall be as per manufacturer's instructions, trade association standards, and governing building and safety codes.
- 3.2 PREPARATION
 - A. Vents and related support construction for plumbing and mechanical equipment must be as required by the building department.
- 3.3 INSTALLATION
 - A. Install products as per Drawings and these Specifications.
 - B. Provide all necessary sawcutting, excavation, shoring, backfilling and compaction required for the proper installation of the Work of this Section. Lay underground lines on firm bed through its entire length in compliance with CPC Section 718.2 and 718.3. Place 6" of clean cohesionless sand all around pipes. After underground piping has been tested and accepted, backfill with the excavated material or acceptable imported soil. Backfill material shall be free of clods or stone larger than 2" in dimension. Install backfill material in thin layers (less than ten inches uncompacted thickness), brought to near the optimum moisture content and compacted to a minimum of 90% of the maximum density obtainable by ASTM Test Method D1557, unless higher density is specified by the Architect. If it becomes necessary to import materials from offsite to complete site grading, imported soils should consist of essentially granular, silty sands with low expansion potential and free of grasses, weeds, debris, rocks larger than 3 inches in maximum dimension, and soluble sulfates in excess of 200 parts per million. Sewer existing surface to facilitate new piping. Locate existing underground Work prior to marking out lines. Do not allow cut path to disturb existing Work without prior review from the Architect. Segregate and dispose of demolished concrete or asphalt concrete. Evaluate excavated soil for reuse in same location. Dispose of soil if it is not in compliance with the Contract Documents or not acceptable to Soils Engineer. Carefully excavate trench to prevent damage to existing Work. Restore existing Work found damaged to its intended condition. Comply with requirements for excavation, backfill and compaction specified by the Architect.
 - C. Protect any pipes crossing "Zones of Influence" with Schedule 40 black steel sleeves. Zone of influence is defined as the area that projects out at 45 degrees from the outer lower perimeter of footings and grade beams. Do not run piping parallel to footings or grade beams in zones of influence.
 - D. Provide non-conducting dielectric connections wherever joining dissimilar metals.
 - E. Install piping to allow for expansion and contraction without stressing pipes, joints, or connections to fixtures or equipment.
 - F. Contractor shall install "Acousa-Plumb" at all pipe penetrations to ensure no piping or valves come in direct contact with the structure.
 - G. Collect vents to minimize roof penetration and maintain the integrity of the roof assembly. Each vent shall rise vertically to a point not less than 6 inches above the flood-level rim of the fixture served before offsetting horizontally or before being connected to any other vent.
 - H. Provide for maintenance of this work for one year following final approval by governing agencies. Maintenance includes all work required in manufacturer's instructions such as inspection, adjustment, repair and replacement of parts as required.
 - I. Identify all piping with the words DOMESTIC WATER, SEWER, STORM DRAIN, NATURAL GAS, etc. every six feet.
 - J. No plumbing piping shall be directly embedded or come in direct contact with the structure. Provide sleeve over all pipes passing through concrete or masonry walls and concrete floors.
 - K. Install ball valves to shut off and isolate equipment.
 - L. Provide flexible pipe connectors and plug valves at all natural gas appliances and equipment.
 - M. Maintain minimum one quarter of an inch per foot slope on all drainage piping. Install cleanouts, vacuum breakers, and backflow preventers in accordance to local and State codes.
 - N. Provide hangers and supports per CPC Table 313.3, capable of supporting the trailer weight of pipe and contents, maintain its alignment, and prevent sagging. Provide saddles for insulated pipes. Gas piping shall be supported by metal straps at intervals not to exceed those shown in Table 1210.3.5.1 of CPC. All piping and equipment shall be suitably restrained and anchored in both horizontal and vertical directions to withstand seismic forces as required by the State of California and in compliance with SMACNA standards (Sheet Metal and Air Conditioning Contractors' National Association, Inc.).
 - O. Avoid running plumbing piping above electrical equipment.
 - P. Provide the next available pipe size up, if the size indicated on the Drawings is not available.
 - Q. Test all new piping systems as specified. Install shut-off valves to isolate existing systems that do not require testing. Existing systems that have been connected to new systems shall be tested to the extent of the closest new connection. Tests must be performed and systems approved prior to painting, covering, or concealing piping. Provide all test equipment, instrumentation and labor in conjunction with tests. Prior to test, protect or remove all devices, and other items which are not designed to stand pressures used in test. Accomplish testing of piping in sections so as not to leave any portion of pipe or joints untested. Obtain prior approval for test procedures. Responsibility for Damages: Bear costs of repair and restoration of Work of other trades damaged by tests or cutting done in connection with tests. Domestic Water systems: Test all portions of new water systems at hydrostatic pressure of not less than 150 psig, with 5 psig permissible drop at end of four hours. Drainage Systems: Fill entire waste and vent system with water to level of highest vent stack. System shall hold water for two hours. Fuel Gas Systems: Test with air at a pressure of not less than 10 psig for a minimum of 15 minutes with no perceptible drop in pressure. For welded pipe or gas pressures of 14 inches water column, the test pressure shall not be less than 60 psig (or as approved by governing authority) and shall be continued for a minimum of 30 minutes. Rainwater System: Test in the same manner as described for the Drainage System above.
 - R. Disinfection of domestic water piping system. Verify system is complete, flushed and clean. Ensure pH of water to be treated is between 7.4 and 7.6. Inject disinfectant, free chlorine in liquid, powder or gas form throughout system to obtain 50 to 80 mg/L residual. Bleed water from outlets to ensure distribution. Maintain disinfectant in system until residual is equal to incoming water of 1.0 mg/L. Analyze 24 hours after flushing in accordance with ANNA 5203. Provide copies of Certificates of Performance.
 - S. Upon completion, secure all required pressure tests, inspections, and approvals of the completed system. Make all required adjustments and corrections at no added cost to the Owner.
 - T. Openings in the building envelope separating conditioned space from unconditioned space needed to accommodate piping and other necessary penetrations must be sealed in compliance with the California Energy Code. Exception: The annular spaces around pipes and other openings at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, or concrete masonry.
 - U. Wall hung fixtures shall be installed with carriers concealed in walls that are anchored to the floor in compliance with ASME A112.6.
 - V. PROTECTION FROM MARINE/COASTAL ENVIRONMENT
 - A. Contractor shall be responsible for protecting all plumbing systems from premature corrosion due to the coastal environment. This includes the use of non ferrous piping, supports, equipment and other materials and components. Epoxy paint, or wrap any exterior or exposed ferrous metallic plumbing system. No sheet metal flashing is allowed. Contractor shall be responsible for any damage resulting from his failure to protect plumbing systems from premature corrosion.
- 3.5 REPAIR AND CLEANUP
 - A. After installation, inspect all work for improper installation or damage.
 - B. Operating fixtures must perform smoothly. Repair or replace any defective work. Repair work will be undetectable. Redo repairs if work is still defective, as directed by the Architect or governing safety regulatory agency.
 - C. Clean the work area and remove all scrap and excess materials from the site and dispose of in accordance with State and local requirements.



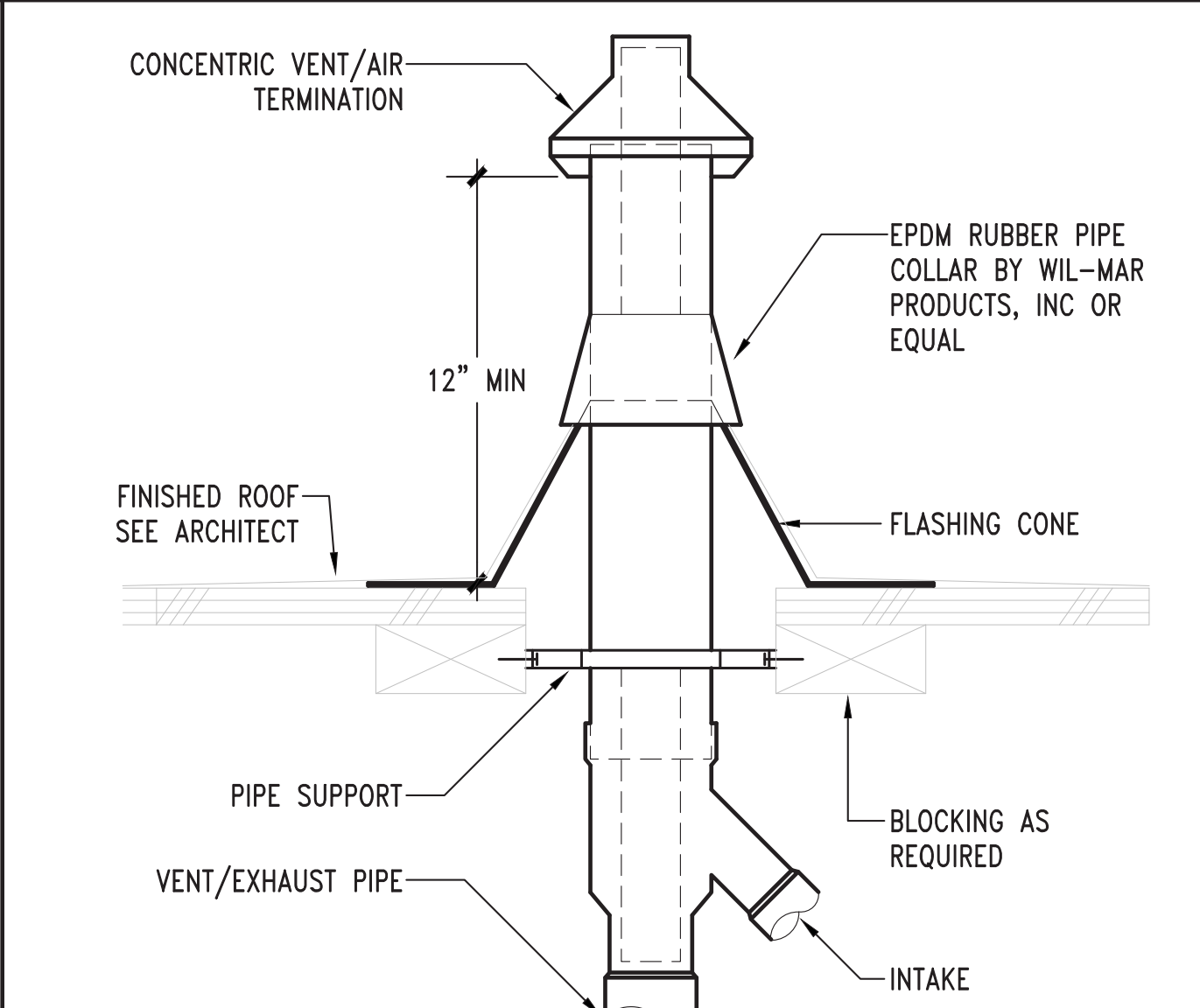
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PRV ASSEMBLY NTS 4



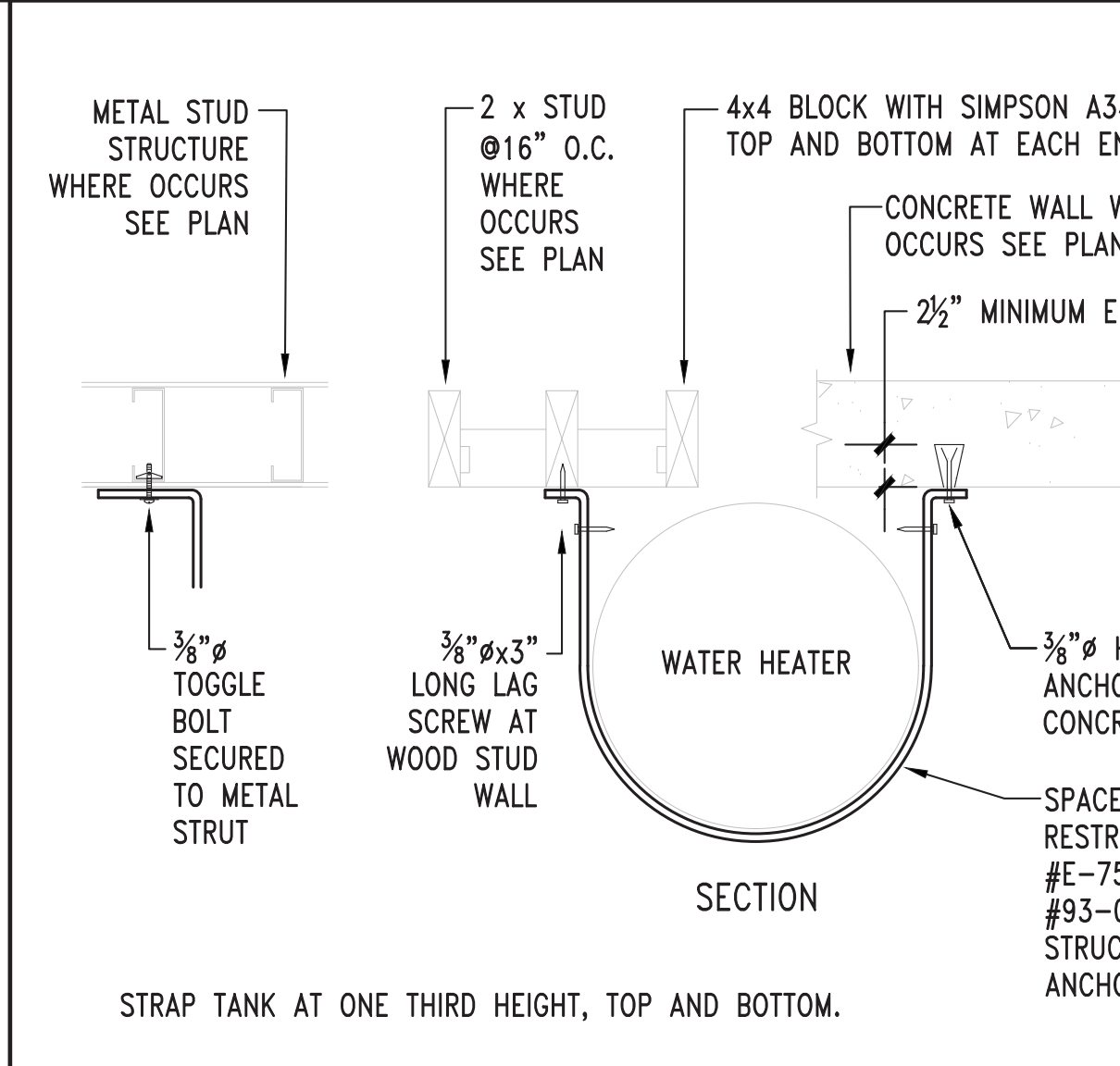
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BFP ASSEMBLY NTS 3



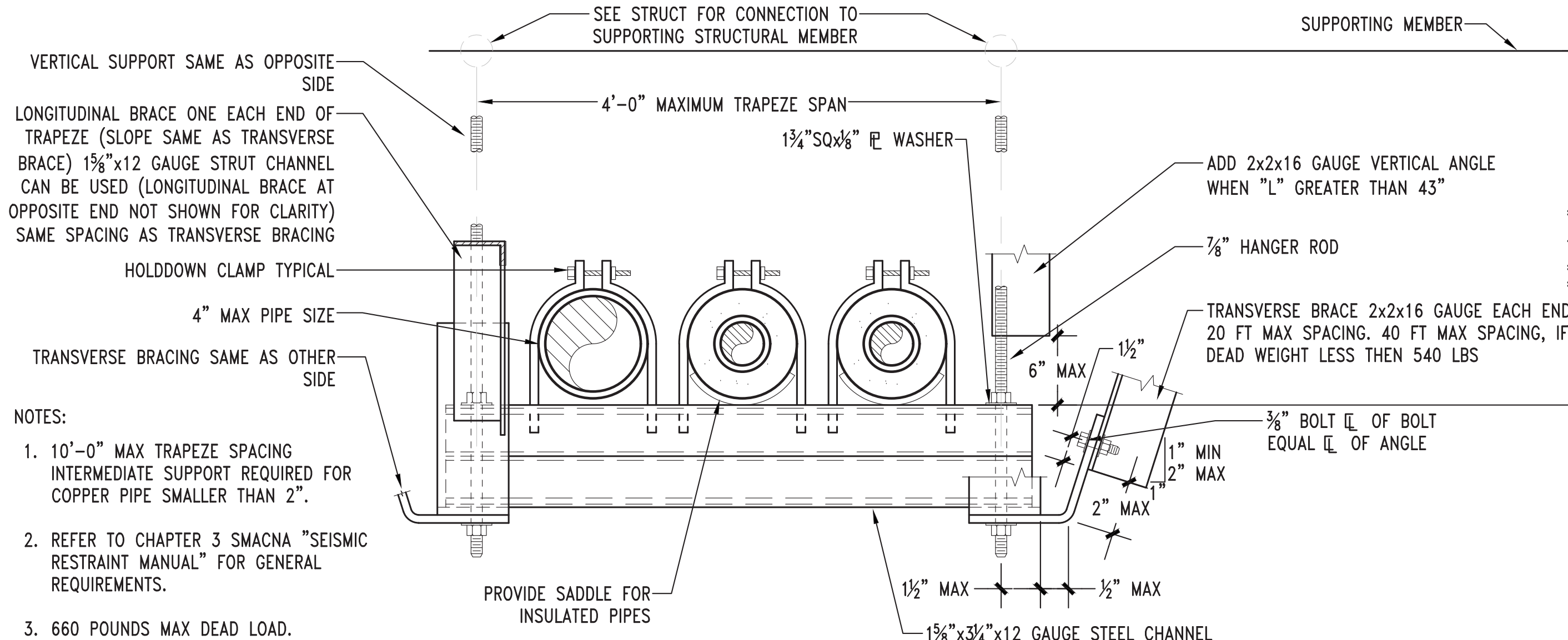
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VENT/AIR TERMINATION NTS 6



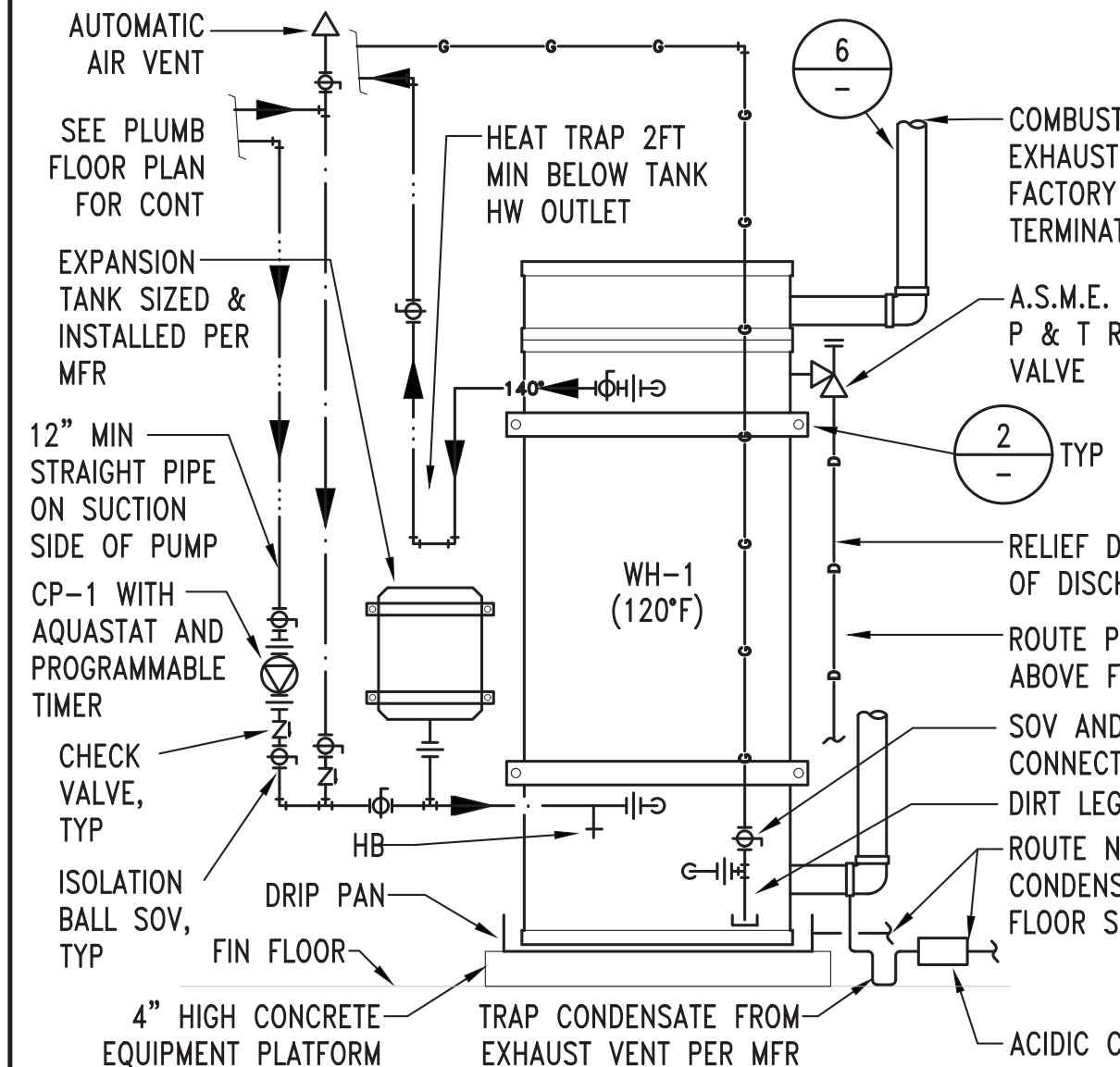
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ANCHORAGE DETAIL FOR WATER HEATER NTS 2



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PIPE SUPPORT TRAPEZE NTS 5



EQ_WH_GAS_CONDENSING_CIRC_TEMP.DWG

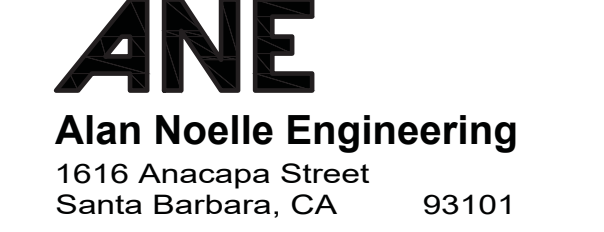
CONDENSING WATER HEATER NTS 1



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MILESTONE DATES:	
9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
04-22-24	PLANNING DEPT. SUBMITTAL

REVISONS:

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
Plumbing Details & Specifications
DATE: 04-22-24

DRAWN BY: TDH, LLA
JOB NUMBER: SAN-2201

Drawing Name: E:\SAN\Sansum\SAN2201_SanDiabetes\SAN2201-Dwg\SAN2201-P4-1.dwg
PLOT DATE: Apr 22, 2024, 9:56am
PLOT BY: Tom

ELECTRICAL SPECIFICATION NOTES

PROVIDE ALL ELECTRICAL WORK, AND MATERIALS AS SHOWN ON THE DRAWINGS, AS CALLED FOR HEREIN, AND AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.

THE INSTALLATION SHALL CONFORM TO ALL THE REQUIREMENTS OF THE CURRENTLY ADOPTED CALIFORNIA ELECTRICAL CODES, STATE OF CALIFORNIA TITLE 24, ALL OTHER APPLICABLE CODES AND ORDINANCES, AND THE REQUIREMENTS OF THE FIRE, ALL EQUIPMENT AND WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS' LABORATORY (UL) OR AN APPROVED TESTING LABORATORY. PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.

THIS CONTRACT SHALL BE RESPONSIBLE FOR THE SAFETY, AND GOOD CONDITION, OF ALL MATERIAL AND EQUIPMENT FOR THE ENTIRE INSTALLATION, AND UNIT COMPLETION OF WORK. ERECT AND MAINTAIN APPROVED AND SUITABLE BARRIERS, PROTECTIVE DEVICES, AND WARNING SIGNS. BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENT MAINTENANCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS AND WARNINGS.

COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.

ALL SAWCUTTING, TRENCHING, BACKFILLING, AND PATCHING SHALL BE PART OF THIS CONTRACT. ALL BACKFILLING, COMPACTION, AND RESURFACING METHODS SHALL BE APPROVED BY THE ARCHITECT.

FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, PENetration, AND PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY. VERIFY LOCATION OF FACILITIES AND DETAILS WITH POWER UTILITY. IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS AND SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DRAWINGS ISSUED, AND SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.

RACEWAYS FOR ALL CONDUCTORS IN EXPOSED AREAS LESS THAN 5"-0" ABOVE GRADE SHALL BE GALVANIZED STEEL CONDUIT OR PVC SCHEDULE 80, AS PERMITTED BY BUILDING CONSTRUCTION TYPE. UNDERGROUND CONDUITS SHALL BE BURIED A MINIMUM OF 24" BELOW GRADE, AND MAY BE PVC SCHEDULE 40. ALL CONDUIT RISERS FROM UNDERGROUND RISERS SHALL BE PVC SCHEDULE 80 OR RIGID GALVANIZED STEEL. RACEWAYS IN ALL CONCEALED AREAS MAY BE TYPE EMT. FLEXIBLE STEEL CONDUIT MAY BE USED IN CONCEALED AREAS, UP TO A MAXIMUM LENGTH OF 12'-0", IF A SUITABLE BONDING WIRE IS INSTALLED. THIS BONDING CONDUCTOR SHALL BE IN ADDITION TO THE REQUIRED EQUIPMENT GROUNDING CONDUCTOR. CONCEALED RACEWAYS FOR LOW VOLTAGE SYSTEMS WITHIN BUILDING CONSTRUCTION MAY BE EQUAL TO CARLON TYPE "EFF". ALL EMPTY CONDUITS SHALL HAVE A SUITABLE FULLCORD INSTALLED. A SUITABLE GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL LINE VOLTAGE CONDUIT RUNS. NOTE THAT THIS CONDUCTOR IS NOT NECESSARILY SHOWN ON THE DRAWINGS. CONDUCTOR-IN-CONDUIT TYPE SYSTEMS, SUCH AS "MC" CABLE SHALL NOT BE ALLOWED UNLESS SPECIFICALLY CLEARED BY THE ENGINEER. NO MORE THAN THREE NINETY DEGREE BENDS SHALL BE ALLOWED IN ANY CONDUIT RUN, BETWEEN PULL POINTS.

OUTLET AND JUNCTION BOXES SHALL BE GALVANIZED STEEL, 4" SQUARE BY 1-1/2" DEEP, OR LARGER. THEY SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS, AND SHALL INCLUDE A PLASTER RING SUITABLE FOR THE DEVICE MOUNTED IN THE BOX. TELEPHONE AND COMMUNICATIONS OUTLETS MAY CONSIST OF THE PLASTER RING, BUT NO BOX, WHERE NOISE TRANSMISSION FROM ONE ROOM TO THE NEXT IS NOT AN ISSUE. UNLESS OTHERWISE NOTED, CONDUIT STUBS SHALL STILL BE REQUIRED FOR ALL COMMUNICATIONS OUTLETS INTO ACCESSIBLE CEILING SPACE. ALL BOXES SHALL BE LISTED FOR THEIR USE, INCLUDING ANY FIRE RATING. ADDITIONAL REGARDLESS OF OUTLET LOCATIONS SHOWN ON THESE PLANS, BOXES SHALL BE LOCATED AS REQUIRED TO COMPLY WITH NOISE AND FIRE SEPARATION REQUIREMENTS.

PROVIDE ALL CONDUIT, WIRING, OUTLETS, DISCONNECT OR MANUAL MOTOR STARTER SWITCHES, AND EQUIPMENT NECESSARY TO CONNECT MECHANICAL SYSTEMS AND EQUIPMENT. INSTALL OUTLETS AND CONTROL WIRING FOR LOW VOLTAGE CONTROL EQUIPMENT, IF REQUIRED. PROVIDE ALL REQUIRED CONDUIT FOR LOW VOLTAGE SYSTEMS.

FURNISH AND INSTALL ALL LIGHT FIXTURES, COMPLETE WITH REQUIRED LAMPS, BALLASTS, MOUNTING TRIMS, AND DEVICES. ALL EXISTING FIXTURES TO REMAIN SHALL BE LEANED, REPAIRED OR REPLACED, AND RELAMPED AS NECESSARY. FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE IN AN APPROVED MANNER. CONNECT T-BAR DROP-IN FIXTURES AT DIAGONAL CORNERS DIRECTLY TO STRUCTURE OVERHEAD USING MINIMUM #12 WIRES.

ALL FIXTURE AND OUTLET HEIGHTS AND LOCATIONS SHALL BE INDIVIDUALLY COORDINATED WITH THE ARCHITECT.

LIGHT SWITCHES SHALL BE 20A, EQUAL TO HUBBELL #S120 SERIES. DUPLEX RECEPTACLES SHALL BE 20A, EQUAL TO HUBBELL #R20 SERIES. ALL DEVICE COVERPLATES IN FINISHED AREAS SHALL BE SMOOTH PLASTIC, OR BRUSHED ALUMINUM, AS SPECIFIED BY THE ARCHITECT. ALL DEVICE COVERPLATES IN UNFINISHED AREAS MAY BE SMOOTH PLASTIC OR PRESSED STEEL, AS SPECIFIED BY THE ARCHITECT. ALL COVERPLATES IN EXTERIOR LOCATIONS SHALL BE WEATHERPROOF. DEVICE AND COVERPLATE COLORS SHALL BE AS SPECIFIED BY THE ARCHITECT. WHERE MULTIPLE DEVICES EXIST, THEY SHALL BE GROUPED TOGETHER, AND GROUPE DEVICES SHALL BE UNDER A SINGLE COVER PLATE. DEVICES ON AN EMERGENCY OR BACKUP POWER SYSTEM SHALL BE RED IN COLOR.

PANELBOARDS SHALL BE EQUAL TO SQUARE D TYPE "NOOD". PROVIDE TYPED WRITTEN CIRCUIT DIRECTORIES PER PANEL SCHEDULES. PANEL DIRECTORIES SHALL INCLUDE THE PANEL OR SWITCHBOARD FROM WHICH THE PANEL IS FED. (1) 3/4" STUB INTO ACCESSIBLE CEILING SPACE IS REQUIRED FOR EVERY (3) SPARES OR SPACES IN RECESSED PANELBOARDS. CIRCUIT BREAKERS USED AS SWITCHES SHALL BE LISTED FOR SWITCHING AND MARKED "SWD" PER NEC 240-83(4).

SWITCHGEAR AND DISTRIBUTION EQUIPMENT SHALL BE SPECIFICATION GRADE, AS MANUFACTURED BY SQUARE D, SIEMENS, OR APPROVED EQUAL. ALL CONNECTIONS, TERMINATIONS, GROUNDING, AND HARDWARE ASSEMBLIES SHALL BE CHECKED BY AN EXPERIENCED SWITCHBOARD INSTALLER PRIOR TO ENERGIZATION. EACH CONNECTION POINT OR FASTENER SHALL BE ALIGNED AND TORQUED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ANCHOR EACH SECTION TO THE FLOOR AND WALL. STRUCTURAL ANCHORAGE SHALL BE PER MANUFACTURER'S SPECIFICATIONS, AND SHALL BE APPROVED BY THE A/E.

ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN". CONDUCTORS LARGER THAN #6 AWG MAY BE TYPE "THWN" OR "THW".

PROVIDE BRANCH CIRCUIT WIRING, OUTLETS, DEVICES, AND CONNECTIONS TO ALL EQUIPMENT. ELECTRICAL EQUIPMENT AND MATERIAL SHALL BE LISTED, LABELED, AND INSTALLED PER A RECOGNIZED ELECTRICAL TESTING LABORATORY.

STEEL LIQUID-TIGHT, FLEXIBLE CONDUITS ARE REQUIRED FOR MOTOR CONNECTIONS, CONNECTIONS TO LIQUID-HANDLING EQUIPMENT, AND CONNECTIONS IN WET OR EXTERIOR LOCATIONS.

PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.

UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, DUAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MANUAL MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS. SWITCHES EXPOSED TO THE WEATHER SHALL BE TYPE NEMA 3R. ALL MOTOR DISCONNECTING MEANS SHALL BE HORSEPOWER RATED, BASED ON UNIT SERVED.

PANELBOARDS, TERMINAL CABINETS, SWITCHGEAR, DISCONNECTS, DISTRIBUTION BREAKERS, AND MISCELLANEOUS ELECTRICAL EQUIPMENT, SHALL HAVE LAMINATED, WHITE LETTERS ON BLACK BACKGROUND, PHENOLIC NAMEPLATES PROPERLY IDENTIFYING EACH ITEM.

PROVIDE ALL MATERIALS AND WORK REQUIRED TO LOCATE, AND CONNECT TO, EXISTING DISTRIBUTION EQUIPMENT. UPDATE EXISTING PANELBOARDS WITH NEW TYPED WRITTEN CIRCUIT DIRECTORIES, AND FURNISH NEW CIRCUIT BREAKERS AS REQUIRED. EXISTING CIRCUIT DESCRIPTIONS IN EXISTING PANEL DIRECTORIES SHALL BE USED FOR EXISTING CIRCUITS TO REMAIN IF THEY ARE MORE DETAILED THAN THE PANEL SCHEDULES SHOWN IN THESE PLANS. RECONNECT ANY BRANCH CIRCUITS INTERRUPTED DURING DEMOLITION THAT ARE TO REMAIN. PANELBOARD CIRCUIT DIRECTORIES SHALL INCLUDE WHERE THE PANEL IS FED FROM.

RE-USE OF EXISTING BRANCH CIRCUIT CONDUITS AND WIRING IS ACCEPTABLE IF IN COMPLIANCE WITH ALL APPLICABLE CODES AND ORDINANCES, AND APPROVED BY THE A/E.

INFORMATION SHOWN WAS OBTAINED FROM "AS-BUILT" DRAWINGS. VISIT THE SITE PRIOR TO BID TO VERIFY EXISTING CONDITIONS, AND MAKE ALLOWANCE FOR VARIATIONS TO THAT WHICH IS SHOWN.

(5) COPIES OF SUBMITTAL DRAWINGS ARE REQUIRED FOR DISTRIBUTION EQUIPMENT, LIGHT FIXTURES, DEVICES, AND COVERPLATES. SUBSTITUTIONS MAY BE APPROVED BY THE ENGINEER IF THE SUBMITTAL SHOWS A REASONABLE BENEFIT TO THE OWNER. NO PRIOR APPROVAL FOR SUBSTITUTIONS SHALL BE GIVEN BEFORE SUBMITTALS. AS SUCH, BID COMPARISONS MUST BE MADE BASED ON SPECIFIED EQUIPMENT. THE ENGINEER RESERVES THE RIGHT TO REJECT SUBMITTALS BASED ON INCOMPLETENESS OF THE SUBMITTAL, AS WELL AS NOT MEETING THE REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. SUBMITTALS MUST BE PROVIDED FOR SPECIFIED EQUIPMENT, AS WELL AS ANY SUBSTITUTIONS.

PROVIDE PANEL AND CIRCUIT NUMBER ON WALL OUTLET AND LIGHT SWITCH COVERPLATES. USE A TAPE TYPE SYSTEM EQUAL TO KROY OR BROTHER.

THE ELECTRICAL DRAWINGS SHALL BE TREATED AS DIAGRAMMATIC IN NATURE. THEY SHALL NOT BE USED TO DETERMINE EXACT DIMENSIONS OR LOCATIONS FOR ANY DEVICE. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COORDINATING WITH ARCHITECTURAL ELEMENTS AND PLANS, OTHER DISCIPLINES, THE ARCHITECT, AND OWNER, FOR ALL LOCATIONS, BEFORE COMPLETING ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS IN RELOCATING ANY DEVICE OR CONNECTION INSTALLED IN THE WRONG LOCATION. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR COORDINATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REQUIRED LIGHTING CONTROL PROGRAMMING, TO ACHIEVE A WORKING SYSTEM TO THE SATISFACTION OF THE PLANS, ENGINEER, AND OWNER. REQUIRED PROGRAMMING INFORMATION MAY NOT BE FULLY SHOWN IN THE CONTRACT DOCUMENTS. THAT DOES NOT RELEASE THE CONTRACTOR FROM ADJUSTING/PROGRAMMING THE CONTROLS TO THE SATISFACTION OF THE OWNER. THE CONTRACTOR SHALL ALLOW SUFFICIENT TIME FOR COORDINATION.

CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SHORT CIRCUIT, COORDINATION, OR ARC FAULT CALCULATIONS REQUIRED TO PRODUCE PROPER EQUIPMENT LABELING. CONTRACTOR TO PROVIDE CODE REQUIRED SHORT CIRCUIT AND ARCH FLASH LABELS AT ALL PANELS, DISCONNECTS, AND OVERCURRENT PROTECTION.

LIGHT FIXTURE SCHEDULE

FIXT.	MANUFACTURER	CATALOGUE NUMBER	MOUNTING	LAMPING	WATTS	DM
A	FINELITE	HPRLD-A-2X2-H-930-DCO-96LG-129-FC-10%-C1-96LG	RECESSED, CEILING	LED INCLUDED	42.8	0-10V
B	FINELITE	HPRLD-A-2X4-H-930-DCO-96LG-129-FC-10%-C1-96LG	RECESSED, CEILING	LED INCLUDED	40.6	0-10V
C32	FINELITE	HP2-P-ID-32'-S-H-935-F-F-96LG-120-DC-FC-10%-FA50-FM-C1-FE-SW	PENDANT, CEILING	LED INCLUDED	504	0-10V
C40	FINELITE	HP2-P-ID-40'-S-H-935-F-F-96LG-120-DC-FC-10%-FA50-FM-C1-FE-SW	PENDANT, CEILING	LED INCLUDED	640	0-10V
D	BROWNLEE	20B1-18-BN-R23-FL1-35K	SURFACE, CEILING	LED INCLUDED	23	0-10V
E	BROWNLEE	5160-24-BN-H16-EC1-35K	SURFACE, WALL	LED INCLUDED	16	0-10V
F	BETA CALCO	TMRG103-LMA0320-CR80-C7A35-VI-DA01-FA20	SURFACE, CEILING	LED INCLUDED	132	0-10V
G1	DMF	M4-NC-R-S-DRD2M-12-9-35-WF-W-O-M4T-R-S-WH	RECESSED, CEILING	LED INCLUDED	14.3	0-10V
G1E	DMF	M4-NC-R-S-DRD2M-10-9-35-GA-W-O-M4T-R-S-WH	RECESSED, CEILING	LED INCLUDED	14.3	0-10V
G2	DMF	2FSL4-48L-MVOLT-EZ1-LP835-WH	RECESSED, CEILING	LED INCLUDED	12.5	0-10V
H2	HEW	75R-2-132-8-35-DIM	SURFACE, CEILING	LED INCLUDED	21.3	0-10V
H4	HEW	75R-4-165-8-35-DIM	SURFACE, WALL	LED INCLUDED	42.3	0-10V
I	LUMINAIRE LED	TSL9-24-2DRV-SOW-35-MVOLT-CLP-WHT-EMB310-FAM7	SURFACE, WALL	LED INCLUDED	51	0-10V
J2	CORE	LSM40HF-35K-2'-24	UNDERCABINET	LED INCLUDED	8.8	0-10V
J6	CORE	LSM40HF-35K-6'-24	UNDERCABINET	LED INCLUDED	26.4	0-10V
J18	CORE	LSM40HF-35K-18'-24	UNDERCABINET	LED INCLUDED	79.2	0-10V
K	LOUIS POULSEN	10000151370	PENDANT, CEILING	LED INCLUDED	6	0-10V
L8	FINELITE	HP2-2-R-D-8'-H-935-F-F-96LG-120-SC-FC-10%-VF-FE-SW	RECESSED, CEILING	LED INCLUDED	54.4	0-10V

GENERAL NOTES

ALL MOUNTING HEIGHTS AND EXACT LOCATIONS SHALL BE COORDINATED WITH ARCHITECT, BEFORE ROUGH-IN. MOUNTING OUTLET BOX, OR FIXTURE, TO NEAREST STUD IS NOT ACCEPTABLE.

ALL INTERIOR LED LAMPS SHALL BE 3500K COLOR, UON. ALL EXTERIOR LED LAMPS SHALL BE 2700K COLOR, UON.

ALL FINISHES SHALL BE CHOSEN BY ARCHITECT. FOR BID PURPOSES, ASSUME A STANDARD FINISH, UON.

KEYED NOTES LEGEND

200A MLO, 200A BUSSING		EXISTING		MOUNTING: RECESSED					
120/208V, 3Ø4W		SQUARE D TYPE NOOB		PANEL "A"					
DESCRIPTION/LOCATION	#A	#B	#C	CIRCUIT BREAKER	CIRCUIT NUMBER	#A	#B	#C	DESCRIPTION/LOCATION
LIGHTS (LOWER LVL WEST)	608	733	855	20/1	1 2 20/14	720			RECEPT (BATHROOM GFI)
SPARE					7	8	9	900	(STORAGE)
SPARE					9	10		720	(RECORDS/OFFICE)
					11	12		720	(TRIAL STORAGE)
					13	14		540	(WH/MECH ROOM)
					15	16		360	(STAFF/PAT RR)
SPARE					19	20		1000	(LAB)
					21	22		1000	(COUNTER TOP)
RECEPTS (RESEARCH STAFF)	540	920/1	25	26	830				SUMP PUMP
					27	28		1000	RECEPTS (INFUSION)
(FLEX SPACE)					29	30		1000	
					31	32		1000	
(T.V.S EXERCISE)	540	920/1	33	34				1000	
(CARDIO EQUIP)	1000	1000			23	24		1000	
					37	38		500	SPARE
					39	40		200	HOT WATER PUMP
RECEPTACLES					41	42	20/1		ELEV PIT RECEPT/LIGHT
				CONNECTED LOAD	8.11	8.29	8.51	24.92	kVA CONN.
				LONG CONTINUOUS LOAD (LCL) OR LARGEST MOTOR LOAD (LML)				0.55	LCL & LML
				PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE AND RED HANDLED BREAKER				25.47	TOTAL kVA
				ISOLATED GROUND CIRCUIT				71	TOTAL AMPS
				GFI TYPE BREAKER					
				EXISTING BREAKER WITH NEW LOAD					
				NEW BREAKER IN EXISTING SPACE, OR REPLACING EXISTING BREAKER					

ELECTRICAL SYMBOLS

LIGHTING	CONDUIT & WIRE
SEE LIGHT FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION	ALL WIRE SHALL BE #12 THHN CU UON
LED (LETTER DESIGNATION REFERS TO FIXTURE TYPE AS SPECIFIED IN THE LIGHT FIXTURE SCHEDULE)	(4) #12 + ground MAX. IN 1/2" CONDUIT (8) #12 + ground MAX. IN 3/4" CONDUIT (16) #12 + ground MAX. IN 1" CONDUIT --- BELOW GRADE OR FLOOR --- STUBBED AND CAPPED --- WIREMOLD G4000 --- PLUGMOLD, WIREMOLD G20GBX12
RECESSED DOWNLIGHT SURFACE MOUNTED SURFACE, WALL MOUNTED PENDANT MOUNTED TRACK WITH TRACK HEADS STRIP	SWITCHES & CONTROLS MOUNT AT 4-44" TO U. UNLESS OTHERWISE NOTED
EXIT SIGN (SINGLE OR DOUBLE FACED WITH DIRECTIONAL ARROWS AS SHOWN)	S SINGLE POLE (SPST) S ₂ TWO POLE (SPST) S ₃ 3-WAY (SPST) S ₄ 4-WAY (SPST) S ₅ WITH PILOT LIGHT S ₆ DOUR OPERATED S ₇ TIMER S ₈ KEY OPERATED S ₉ WALLBOX DIMMER (RATED FOR THE LAMP TYPES AND WATTAGE OF THE LOAD THEY CONTROL, INCLUDING REQUIRED DEPARTING FOR MULTILING INSTALLATIONS)
WALL MOUNTED RECEPTACLES (MOUNT AT +18" TO U. UNLESS OTHERWISE NOTED)	FLOOR OUTLETS
20A DUPLEX, VERTICALLY MOUNTED 20A DUPLEX, W/USB PORTS 20A HALF SWITCHED DUPLEX RECEPTACLE 20A DUPLEX, HORIZONTALLY MOUNTED DOUBLE DUPLEX CATV AND/OR VIDEO TELEPHONE AND/OR COMMUNICATIONS (PROVIDE 3/4" TO INTO ACCESSIBLE CEILING SPACE, UON) NON-STANDARD OUTLET (SEE PLANS FOR NEMA CONFIGURATION)	20A DUPLEX (OUTLETS SHALL BE FLUSH, RECESSED, OR PEDESTAL TYPE, ALL SHALL BE AS SPECIFIED IN THE PLANS AND SPECIFICATIONS) TEL/COMM
LETTER DESIGNATIONS	MISC. OUTLETS & EQUIPMENT
AC ABOVE COUNTER (MOUNT ABOVE COUNTER SPLASH, BUT NOT ABOVE 48" TO TOP OF BOX, AS DIRECTED BY ARCHITECT) AHJ AUTHORITY HAVING JURISDICTION CD CONDUIT ONLY (WITH FULL CODE) dms DO NOT SWITCH (LIGHT FIXTURE SHALL BE WIRED HOT) EX EXISTING, TO REMAIN EXR EXISTING, TO BE REMOVED FLA FULL LOAD AMPS GD CONNECT, AS REQ'D TO GARBAGE DISPOSAL GFI GROUND FAULT INTERRUPTING GWS GANG WITH SWITCH MCA MINIMUM CIRCUIT AMPS MCB MAIN CIRCUIT BREAKER MFS MAXIMUM FUSE SIZE MLO MAIN LUGS ONLY NL NIGHT LIGHT (LIGHT FIXTURE TO BE LEFT ON 24-HOURS A DAY) REF LOCATE, AS REQ'D FOR REFRIGERATOR REL EXISTING, RELOCATED TO NEW POSITION TW TANDEM WIRED TYP TYPICAL UON UNLESS OTHERWISE NOTED WM OUTLET MOUNTED IN WIREMOLD WP WEATHERPROOF (NEMA 3R IF ENCLOSURE) WT WALL TELEPHONE (MOUNTING HEIGHT, AS DIRECTED BY ARCHITECT)	TIME SWITCH THERMOSTAT (+44" STANDARD UON) JUNCTION BOX MOTOR DISCONNECT SWITCH TRANSFORMER RELAY OR CONTACTOR (IN NEMA 1 ENCLOSURE UON) MANUAL MOTOR STARTER SPEAKER VOLUME CONTROL SWITCH DOORBELL FIRE ALARM PULL STATION FIRE ALARM HORN FIRE ALARM CHIME FIRE ALARM VISUAL FIRE ALARM AUDIO/VISUAL FIRE ALARM SMOKE DETECTOR FIRE ALARM HEAT DETECTOR FIRE ALARM SMOKE/CO DETECTOR LOW VOLTAGE/WIRELESS KEYPAD OCCUPANCY SENSOR (CEILING OR WALL MOUNTED) PHOTOCELL UTILITY OR TENANT METER, INCLUDING SOCKET AND ALL REQUIRED ACCESSORIES UTILITY METER SOCKET AND BLANK COVER FOR FUTURE METER
ADA OUTLET HEIGHT REQUIREMENTS PER CBC 11B-308.1, ALL POWER, LOW VOLTAGE, AND SWITCH CONTROLS SHALL BE LOCATED AS FOLLOWS: • MINIMUM HEIGHT AFF SHALL BE +15" TO BOTTOM OF OUTLET BOX. • MAXIMUM HEIGHT WITHOUT OBSTRUCTION SHALL BE +48" AFF TO TOP OF OUTLET BOX. • MAXIMUM HEIGHT WITH 20"-25" OBSTRUCTION, FORWARD APPROACH SHALL BE +44" TO TOP OF OUTLET BOX. • MAXIMUM HEIGHT WITH 1"-24" OBSTRUCTION, SIDE APPROACH SHALL BE +46" TO TOP OF OUTLET BOX.	

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ARCHITECT STAMP	CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA.
PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
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PROJECT TITLE:

SANSUM DIABETES
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SHEET TITLE:
ELECTRICAL
SYMBOLS, SPECS

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET ___ of ___

E1.0

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Electrical Engineering Lighting Design
A230201E10.dwg 8.19.23

200A MLO, 200A BUSSING
120/208V, 3Ø4W
SQUARE D TYPE NOOB

EXISTING MOUNTING: RECESSED (RELOCATED)

PANEL "B"

DESCRIPTION/LOCATION	#A	#B	#C	CIRCUIT BREAKER	CIRCUIT NUMBER	CIRCUIT BREAKER	#A	#B	#C	DESCRIPTION/LOCATION
LIGHTS (1ST FLR WEST)	1130			P20/1	1 2	20/10	720			RECEPTS (OFFICE 5,6,7)
↓					3 4					
↓					5 6					
↓					7 8		720			(OFFICE 8,9,10)
↓					9 10			900		
↓					11 12					
↓					13 14		180			(UNISEX RR)
↓					15 16					(HUDDLE OFFICE 1, CONF)
↓					17 18					
↓					19 20		720			
↓					21 22					(OFFICE 2,3,4)
↓					23 24					
↓					25 26		900			
↓					27 28					(MEN RR, WOMEN RR)
↓					29 30			360		SYSTEM FURNITURE
↓					31 32		720			
↓					33 34					
↓					35 36					
↓					37 38					SPARE
↓					39 40					
↓					41 42					
CONNECTED LOAD 7.33 7.66 7.94 22.93 kVA CONN.										
* LONG CONTINUOUS LOAD (LCL) OR LARGEST MOTOR LOAD (LML) 0.92 LCL & LML										
▲ PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE AND RED HANDLED BREAKER 23.85 TOTAL KVA										
◊ ISOLATED GROUND CIRCUIT 66 TOTAL AMPS										
* GFI TYPE BREAKER										
○ EXISTING BREAKER WITH NEW LOAD										
□ NEW BREAKER IN EXISTING SPACE, OR REPLACING EXISTING BREAKER										

150A MLO, 225A BUSSING
120/208V, 3Ø4W
SQUARE D TYPE NOOB

EXISTING MOUNTING: SURFACE

PANEL "F"

DESCRIPTION/LOCATION	#A	#B	#C	CIRCUIT BREAKER	CIRCUIT NUMBER	CIRCUIT BREAKER	#A	#B	#C	DESCRIPTION/LOCATION
LIGHTS (UPPER FLR EAST)	689			P20/1	1 2	20/10	720			RECEPTS (CORR. WAITING)
↓					3 4					(DRINKING FOUNTAIN)
↓					5 6					
↓					7 8		360			(NURSE STATION)
↓					9 10			360		
↓					11 12					
↓					13 14		360			(NURSE WORK RM)
↓					15 16					
↓					17 18		180			(STAFF TOILET)
↓					19 20					(NURSE WK. STATION)
↓					21 22		360			
↓					23 24					PYXIS
↓					25 26		360			COPIER (NURSE STATION)
↓					27 28					RECEPTS (CHARTING)
↓					29 30		720			(PRIVATE RM 2)
↓					31 32					(PRIVATE RM 1)
↓					33 34		900			(CORRIDOR)
↓					35 36					(CONF RM)
↓					37 38					
↓					39 40					SPARE
↓					41 42					
CONNECTED LOAD 9.81 10.71 12.16 32.68 kVA CONN.										
* LONG CONTINUOUS LOAD (LCL) OR LARGEST MOTOR LOAD (LML) 0.37 LCL & LML										
▲ PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE AND RED HANDLED BREAKER 33.05 TOTAL KVA										
◊ ISOLATED GROUND CIRCUIT 92 TOTAL AMPS										
* GFI TYPE BREAKER										
○ EXISTING BREAKER WITH NEW LOAD										
□ NEW BREAKER IN EXISTING SPACE, OR REPLACING EXISTING BREAKER										

150A MLO, 225A BUSSING
120/208V, 3Ø4W
SQUARE D TYPE NOOB

EXISTING MOUNTING: SURFACE

PANEL "M2"

DESCRIPTION/LOCATION	#A	#B	#C	CIRCUIT BREAKER	CIRCUIT NUMBER	CIRCUIT BREAKER	#A	#B	#C	DESCRIPTION/LOCATION
RECEPTS (ROOF)	900			20/1	1 2	15/2	208			MCU (2ND FLR)
↓					3 4					
↓					5 6		208			
↓					7 8					FC UNITS (2ND FLR SOUTH)
↓					9 10					
↓					11 12		208			FC UNITS (2ND FLR NORTH)
↓					13 14					
↓					15 16					SMOKE FIRE DAMPERS
↓					17 18					SPACE
↓					19 20					
↓					21 22					
↓					23 24					
↓					25 26					
↓					27 28					
↓					29 30					
↓					31 32					
↓					33 34					
↓					35 36					
↓					37 38		1123			ERV-2.1 (ROOF)
↓					39 40					
↓					41 42					
CONNECTED LOAD 11.17 11.41 11.40 33.97 kVA CONN.										
* LONG CONTINUOUS LOAD (LCL) OR LARGEST MOTOR LOAD (LML) 0.00 LCL & LML										
▲ PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE AND RED HANDLED BREAKER 3.97 TOTAL KVA										
◊ ISOLATED GROUND CIRCUIT 94 TOTAL AMPS										
* GFI TYPE BREAKER										

200A MLO, 200A BUSSING
120/208V, 3Ø4W
SQUARE D TYPE NOOB

EXISTING MOUNTING: RECESSED

PANEL "D"

DESCRIPTION/LOCATION	#A	#B	#C	CIRCUIT BREAKER	CIRCUIT NUMBER	CIRCUIT BREAKER	#A	#B	#C	DESCRIPTION/LOCATION
LIGHTS	862			20/1	1 2	20/1	1000			RECEPTS (KITCHEN)
↓					3 4					
↓					5 6					
↓					7 8		600			(REF)
↓					9 10					(GARBAGE DISP.)
↓					11 12		500			(HOOD)
↓					13 14		2000			(RANGE/OVEN)
↓					15 16					
↓					17 18		2000			(LAUNDRY)
↓					19 20					
↓					21 22		900			RECEPTS
↓					23 24					
↓					25 26					SPARE
↓					27 28		150			CIRC. PUMP
↓					29 30					CIRC. PUMP
↓					31 32		1500			WASHER (LAUNDRY)
↓					33 34		2500			DRYER
↓					35 36					
↓					37 38		60/3			SPARE
↓					39 40					
↓					41 42					
CONNECTED LOAD 7.36 9.87 6.28 23.52 kVA CONN.										
* LONG CONTINUOUS LOAD (LCL) OR LARGEST MOTOR LOAD (LML) 0.32 LCL & LML										
▲ PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE AND RED HANDLED BREAKER 23.84 TOTAL KVA										
◊ ISOLATED GROUND CIRCUIT 66 TOTAL AMPS										
* GFI TYPE BREAKER										
○ EXISTING BREAKER WITH NEW LOAD										
□ NEW BREAKER IN EXISTING SPACE, OR REPLACING EXISTING BREAKER										

150A MLO, 225A BUSSING
120/208V, 3Ø4W
SQUARE D TYPE NOOB

EXISTING MOUNTING: RECESSED

PANEL "G"

DESCRIPTION/LOCATION	#A	#B	#C	CIRCUIT BREAKER	CIRCUIT NUMBER	CIRCUIT BREAKER	#A	#B	#C	DESCRIPTION/LOCATION
LIGHTS (UPPER FLR WEST)	689			P20/1	1 2	20/10	720			RECEPTS (EXAM RMS 2,3)
↓					3 4					(EXAM RM 1, OFFICE)
↓					5 6					
↓					7 8		360			(CORRIDOR)
↓					9 10					(SUPPLY/LINEN)
↓					11 12		360			(SOILED UTIL. RR)
↓					13 14					
↓					15 16		360			(PRIVATE RM 4)
↓					17 18					(STAFF TOILET)
↓					19 20		720			(INFUSATE RM)
↓					21 22					HOOD
↓					23 24		360			RECEPTS (VITALS)
↓					25 26					
↓					27 28		720			CENTRIFUGE
↓					29 30					
↓					31 32		720			
↓					33 34					
↓					35 36		900			SPARE
↓					37 38					
↓					39 40					SPACE
↓					41 42					
CONNECTED LOAD 7.80 8.64 7.20 23.64 kVA CONN.										
* LONG CONTINUOUS LOAD (LCL) OR LARGEST MOTOR LOAD (LML) 0.38 LCL & LML										
▲ PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE AND RED HANDLED BREAKER 24.02 TOTAL KVA										
◊ ISOLATED GROUND CIRCUIT 67 TOTAL AMPS										
* GFI TYPE BREAKER										
○ EXISTING BREAKER WITH NEW LOAD										
□ NEW BREAKER IN EXISTING SPACE, OR REPLACING EXISTING BREAKER										

150A MLO, 225A BUSSING
120/208V, 3Ø4W
SQUARE D TYPE NOOB

EXISTING MOUNTING: SURFACE

PANEL "MB"

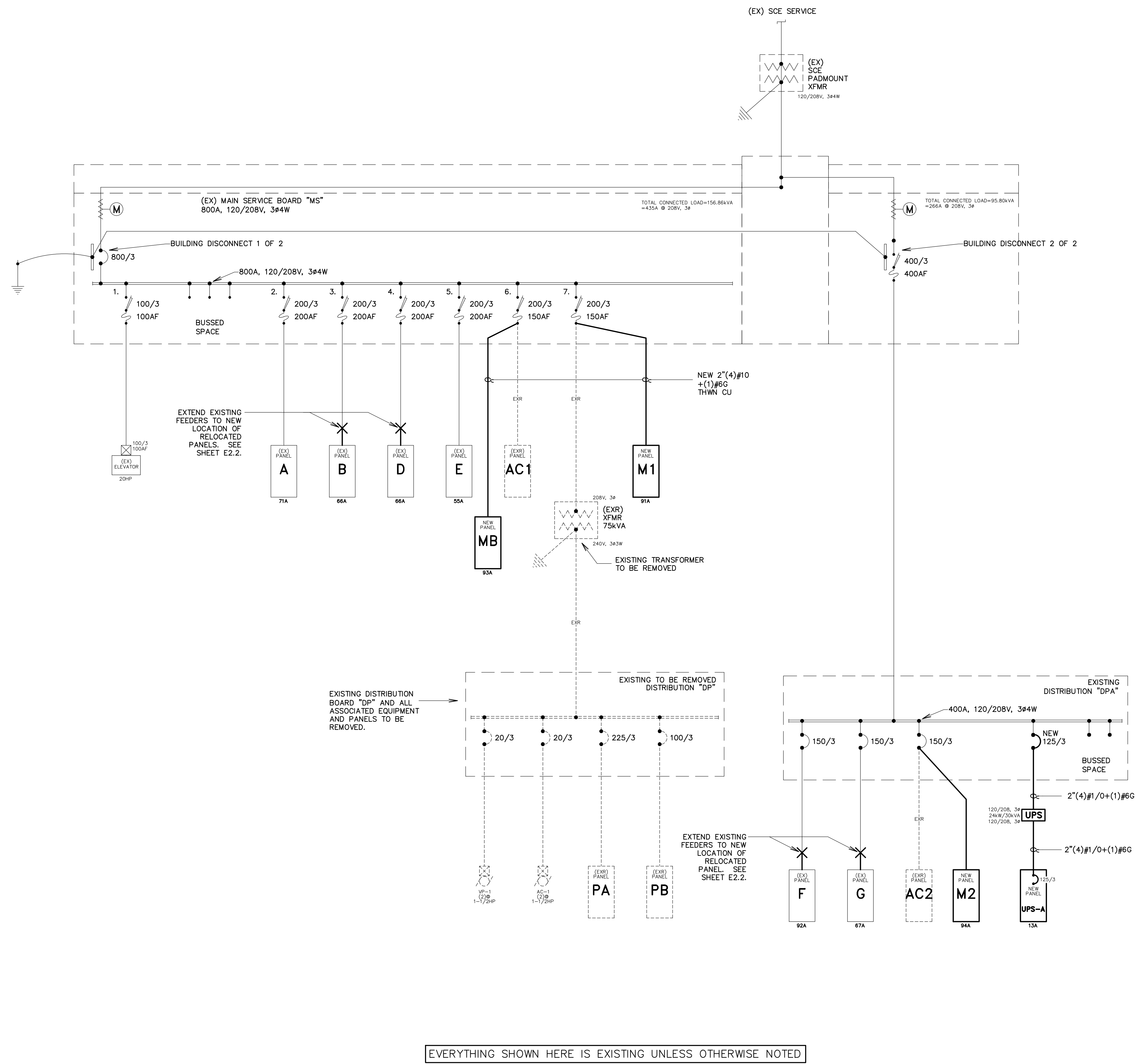
DESCRIPTION/LOCATION	#A	#B	#C	CIRCUIT BREAKER	CIRCUIT NUMBER	CIRCUIT BREAKER	#A	#B	#C	DESCRIPTION/LOCATION
FC-106,107,109,115,123	859			15/2	3 4	15/2	208			MCU
↓					5 6					
↓					7 8		250			SMOKE FIRE DAMPERS
↓					9 10					SPACE
↓					11 12					
↓					13 14					
↓					15 16					
↓					17 18					
↓					19 20					
↓					21 22					
↓					23 24					
↓					25 26					
↓					27 28					
↓					29 30					
↓					31 32		745			ERV-1.1
↓					33 34					
↓					35 36					
↓					37 38		745			ERV-1.2
↓					39 40					
↓					41 42					
CONNECTED LOAD 11.63 10.93 11.03 33.60 kVA CONN.										
* LONG CONTINUOUS LOAD (LCL) OR LARGEST MOTOR LOAD (LML) 0.00 LCL & LML										
▲ PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE AND RED HANDLED BREAKER 33.60 TOTAL KVA										
◊ ISOLATED GROUND CIRCUIT 93 TOTAL AMPS										
* GFI TYPE BREAKER										

200A MLO, 200A BUSSING
120/208V, 3Ø4W
SQUARE D TYPE NOOB

EXISTING MOUNTING: SURFACE

PANEL "E"

DESCRIPTION/LOCATION	#A	#B	#C	CIRCUIT BREAKER	CIRCUIT NUMBER	CIRCUIT BREAKER	#A	#B	#C	DESCRIPTION/LOCATION
LIGHTS (GROUND FLR EAST)	517		</							



ONE LINE DIAGRAM

ARCHITECT STAMP	CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA. PERMIT #:

MILESTONE DATES:

9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
4-22-24	PLANNING DEPT. SUBMITTAL

REVISIONS:

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
ELECTRICAL
ONE LINE DIAGRAM

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

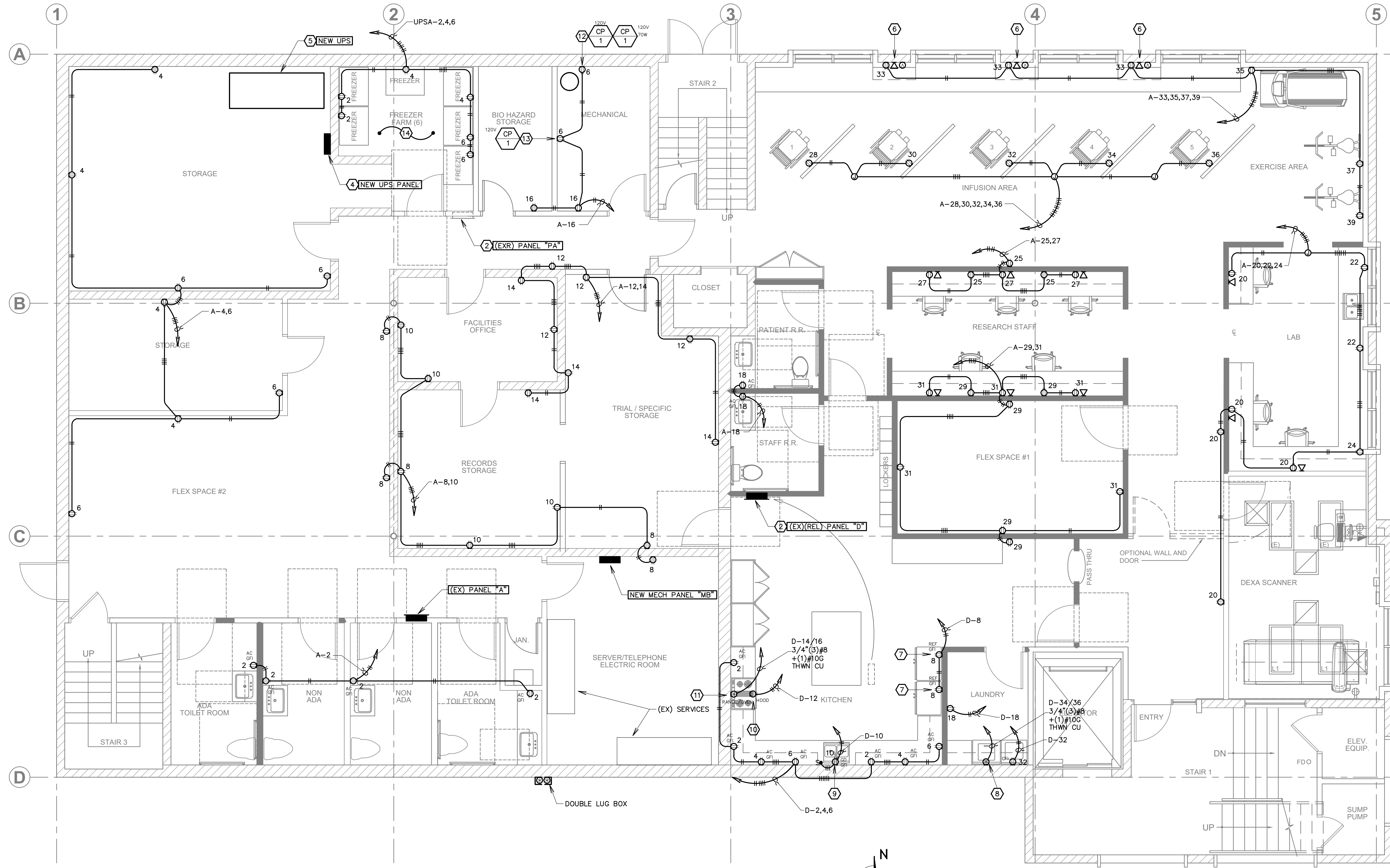
JOB NUMBER: 22004

SHEET ___ of ___

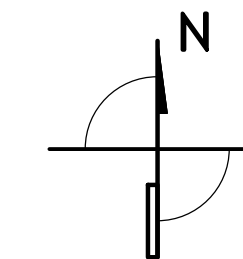
E1.2

SHEET NOTES LEGEND

- 1 EXISTING PANEL "D", TO BE RELOCATED TO NEW LOCATION. INTERCEPT EXISTING FEEDER WITH PULL BOX. PROVIDE AND INSTALL NEW CONDUIT AND WIRE (2(4)3/4"Ø+(1)Ø6G THWN) FROM PULL BOX TO NEW LOCATION OF PANEL "D". REROUTING OF EXISTING CONDUIT AND WIRE IS ACCEPTABLE IF POSSIBLE. INTERCEPT EXISTING BRANCH CIRCUITS TO REMAIN AND EXTEND TO NEW PANEL LOCATION. PROVIDE NEW CONDUIT AND WIRING IF EXISTING WIRING IS NOT PER CODE OR UNABLE TO EXTEND. COORDINATE ALL WORK AND LOCATIONS WITH EXISTING FIELD CONDITIONS AND CURRENT PLANS.
- 2 EXISTING PANEL "PA", TO BE REMOVED. REMOVE ALL CONDUIT AND WIRING BACK TO THE PANEL THAT IT WAS FED FROM. COORDINATE ALL WORK AND LOCATIONS WITH EXISTING FIELD CONDITIONS.
- 3 NEW MECHANICAL PANEL "MB". SEE ONE LINE DIAGRAM FOR CONDUIT AND WIRING INFORMATION. COORDINATE NEW LOCATION WITH THE ARCHITECT BEFORE ROUGH-IN.
- 4 NEW UPS PANEL "UPS-A". SEE ONE LINE DIAGRAM FOR CONDUIT AND WIRING INFORMATION. COORDINATE NEW LOCATION WITH THE ARCHITECT BEFORE ROUGH-IN.
- 5 NEW UPS, EQUAL TO APC SMART-UPS VT, 30KVA, 208V, 3PH, WITH 4 BATTERY MODIFICATION, START-UP 5X8, INTERNAL MAINTENANCE BYPASS, PARALLEL CAPABILITY (PN #SUVTP30K4BMS). PROVIDE PROPER MOUNTING TO SUPPORT UNIT, AND CLEARANCE AROUND UNIT.
- 6 PROVIDE POWER AND DATA CONNECTIONS FOR TV, AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 7 MOUNT OUTLET AS REQUIRED FOR REFRIGERATOR. OUTLET SHALL BE MOUNTED ABOVE COUNTER HEIGHT BUT CONCEALED BY REFRIGERATOR. OUTLET SHALL BE LOCATED TO ALLOW UN-PLUGGING WITHOUT COMPLETE REMOVAL OF THE REFRIGERATOR.
- 8 PROVIDE ALL REQUIRED CONNECTIONS FOR DRYER. COORDINATE 208V, 30A, 1PH RECEPTACLE WITH DRYER. COORDINATE ALL WORK AND LOCATIONS WITH THE ARCHITECT AND ACTUAL UNIT CHOSEN BEFORE ROUGH-IN.
- 9 PROVIDE ALL CONNECTIONS, AS REQUIRED, FOR GARBAGE DISPOSAL. THIS MAY BE A RECEPTACLE OR HARD WIRED. TIE INTO WALL SWITCH AT COUNTER, AS REQUIRED. LABEL SWITCH "DISPOSAL".
- 10 PROVIDE ALL CONNECTIONS FOR RANGE HOOD AND RANGE CONTROLS, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH ACTUAL UNIT INSTALLATION GUIDE. ASSUME THAT POWER IS REQUIRED BOTH BEHIND UNIT AND ABOVE, BEHIND HOOD. FOR ADA REQUIREMENT PROVIDE CABINET MOUNTED SWITCH FOR RANGE HOOD. COORDINATE LOCATION WITH THE ARCHITECT.
- 11 PROVIDE ALL POWER CONNECTIONS FOR ELECTRIC RANGE, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH ACTUAL UNIT INSTALLATION GUIDE. COORDINATE LOCATION WITH THE ARCHITECT.
- 12 PROVIDE ALL REQUIRED 120V POWER CONNECTIONS TO WATER HEATER AND RECIRCULATION PUMP. COORDINATE POWER CONNECTION WITH EQUIPMENT AND PROVIDE A DISCONNECTING MEANS IF DEVICES ARE NOT PLUG-IN. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL/PLUMBING.
- 13 PROVIDE ALL REQUIRED 120V POWER CONNECTIONS TO WATER SOFTNER. COORDINATE POWER CONNECTION WITH EQUIPMENT AND PROVIDE A DISCONNECTING MEANS IF DEVICE IS NOT PLUG-IN. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL/PLUMBING.
- 14 MOUNT OUTLETS IN THIS ROOM AS REQUIRED FOR FREEZERS. OUTLETS SHALL BE MOUNTED ABOVE COUNTER HEIGHT BUT CONCEALED BY FREEZERS. OUTLET SHALL BE LOCATED TO ALLOW UN-PLUGGING WITHOUT COMPLETE REMOVAL OF THE FREEZER.



BASEMENT POWER PLAN
SCALE: 1/4"=1'-0"



ARCHITECT STAMP	CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA.
PERMIT #:

MILESTONE DATES:	9-22-23 PLANNING DEPT. SUBMITTAL
	10-19-23 PLANNING DEPT. SUBMITTAL
	10-19-23 PLANNING DEPT. SUBMITTAL
	4-22-24 PLANNING DEPT. SUBMITTAL

REVISIONS:

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PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

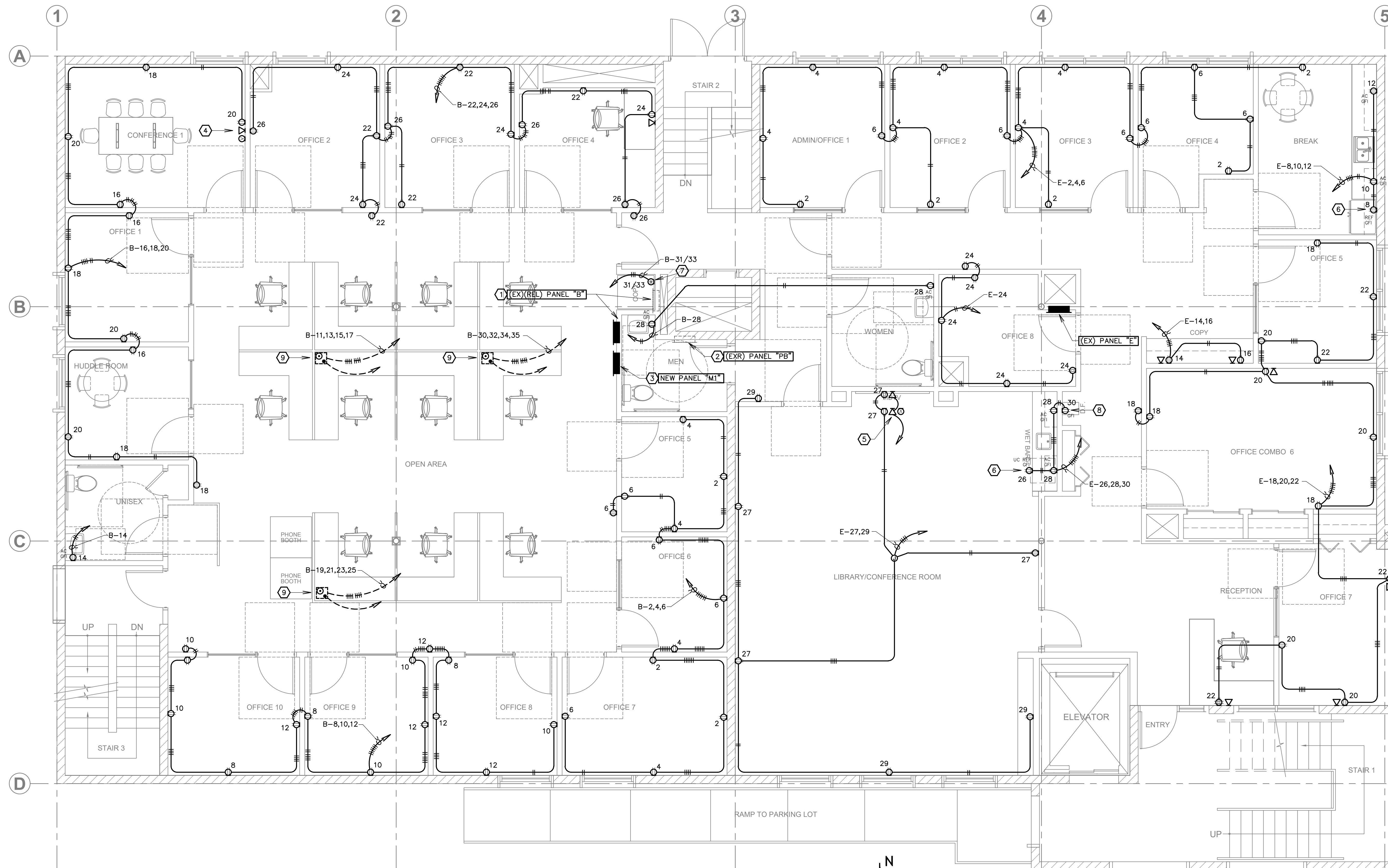
SHEET TITLE:
ELECTRICAL
BASEMENT POWER PLAN

DATE: 12-30-22
DRAWN BY: KEVIN M. MURPHY
JOB NUMBER: 22004

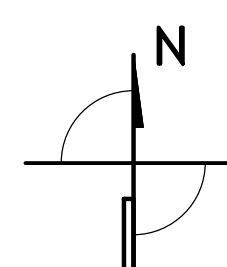
SHEET ___ of ___
E2.0

SHEET NOTES LEGEND

- 1 EXISTING PANEL "B", TO BE RELOCATED TO NEW LOCATION. INTERCEPT EXISTING FEEDER WITH PULL BOX. PROVIDE AND INSTALL NEW CONDUIT AND WIRE (2" (4) #3/0 + (1) #6G THWN) FROM PULL BOX TO NEW LOCATION OF PANEL "B". REROUTING OF EXISTING CONDUIT AND WIRE IS ACCEPTABLE IF POSSIBLE. INTERCEPT EXISTING BRANCH CIRCUITS TO REMAIN AND EXTEND TO NEW PANEL LOCATION. PROVIDE NEW CONDUIT AND WIRING IF EXISTING WIRING IS NOT PER CODE OR UNABLE TO EXTEND. COORDINATE ALL WORK AND LOCATIONS WITH EXISTING FIELD CONDITIONS AND CURRENT PLANS.
- 2 EXISTING PANEL "PB", TO BE REMOVED. REMOVE ALL CONDUIT AND WIRING BACK TO THE PANEL THAT IT WAS FED FROM. COORDINATE ALL WORK AND LOCATIONS WITH EXISTING FIELD CONDITIONS.
- 3 NEW MECHANICAL PANEL "M1". SEE ONE LINE DIAGRAM FOR CONDUIT AND WIRING INFORMATION. COORDINATE NEW LOCATION WITH THE ARCHITECT BEFORE ROUGH-IN.
- 4 PROVIDE POWER AND DATA CONNECTIONS FOR TV IN CONFERENCE ROOM, AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5 POWER AND AV BOX FOR TELEVISION TO BE MOUNTED HIGH ON WALL. FROM THE AV BOX BEHIND TV PROVIDE (1) 1-1/2" DATA CONDUIT TO ACCESSIBLE CEILING SPACE OR IDF ROOM AND (1) 1-1/2" DATA CONDUIT TO LOWER AV BOX ON WALL. ALL COMMUNICATIONS WIRING TO BE BUNDLED AND SUPPORTED WITH J-HOOKS IN 1ST FLOOR CEILING SPACE OVER TO IDF ROOM, AS REQUIRED. COORDINATE ALL WORK, LOCATIONS, AND AV BOX SIZE WITH ARCHITECT.
- 6 MOUNT OUTLET AS REQUIRED FOR REFRIGERATOR. OUTLET SHALL BE MOUNTED ABOVE COUNTER HEIGHT BUT CONCEALED BY REFRIGERATOR. OUTLET SHALL BE LOCATED TO ALLOW UN-PLUGGING WITHOUT COMPLETE REMOVAL OF THE REFRIGERATOR.
- 7 PROVIDE ALL POWER CONNECTIONS FOR COPIER, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH ACTUAL UNIT INSTALLATION GUIDE. COORDINATE LOCATION WITH THE ARCHITECT.
- 8 PROVIDE GFI DUPLEX OUTLET FOR DRINKING FOUNTAIN. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 9 PROVIDE A FIRE RATED POKE THROUGH WITH FLUSH FLOOR FURNITURE FEED, EQUAL TO HUBBELL SYSTEM ONE RECESSED 4 INCH CORE. THIS FLOOR OUTLET SHALL SERVE AS SYSTEMS FURNITURE FEEDER. USE A S1P1FFXX FLOOR BOX WITH A S1SPFFXX FURNITURE FEED COVER. COORDINATE FINISH (ALUMINUM, BRASS, BLACK, OR GRAY) WITH OWNER, BEFORE ORDERING. PROVIDE LIQUID TIGHT FLEXIBLE WHIPS TO FURNITURE, AS DIRECTED BY FURNITURE SUPPLIERS. THE POWER CONDUIT SHOWN SHALL BE 3/4" MINIMUM. THE LOW VOLTAGE CONDUIT SHALL BE 1-1/2" UNLESS OTHERWISE DIRECTED BY LOW VOLTAGE CONSULTANT.



FIRST FLOOR POWER PLAN
SCALE: 1/4"=1'-0"



ARCHITECT STAMP CONSULTANT STAMP



AGENCY APPROVAL CITY OF SANTA BARBARA. PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
10-23-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
4-22-24 PLANNING DEPT. SUBMITTAL

REVISIONS:

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PROJECT TITLE:

SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
ELECTRICAL
FIRST FLOOR POWER PLAN

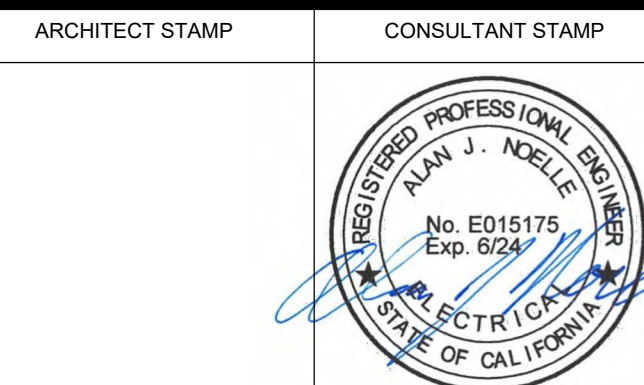
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

SHEET ___ of ___

E2.1



SHEET NOTES LEGEND

- 1 EXISTING PANEL "F", TO BE RELOCATED TO NEW LOCATION. INTERCEPT EXISTING FEEDER WITH PULL BOX. PROVIDE AND INSTALL NEW CONDUIT AND WIRE (2"(4)#1/0 + (1)#8G THWN) FROM PULL BOX TO NEW LOCATION OF PANEL "F". REROUTING OF EXISTING CONDUIT AND WIRE IS ACCEPTABLE IF POSSIBLE. INTERCEPT EXISTING BRANCH CIRCUITS TO REMAIN AND EXTEND TO NEW PANEL LOCATION. PROVIDE NEW CONDUIT AND WIRING IF EXISTING WIRING IS NOT PER CODE OR UNABLE TO EXTEND. COORDINATE ALL WORK AND LOCATIONS WITH EXISTING FIELD CONDITIONS AND CURRENT PLANS.
- 2 EXISTING PANEL "G", TO BE RELOCATED TO NEW LOCATION. INTERCEPT EXISTING FEEDER WITH PULL BOX. PROVIDE AND INSTALL NEW CONDUIT AND WIRE (2"(4)#1/0 + (1)#8G THWN) FROM PULL BOX TO NEW LOCATION OF PANEL "G". REROUTING OF EXISTING CONDUIT AND WIRE IS ACCEPTABLE IF POSSIBLE. INTERCEPT EXISTING BRANCH CIRCUITS TO REMAIN AND EXTEND TO NEW PANEL LOCATION. PROVIDE NEW CONDUIT AND WIRING IF EXISTING WIRING IS NOT PER CODE OR UNABLE TO EXTEND. COORDINATE ALL WORK AND LOCATIONS WITH EXISTING FIELD CONDITIONS AND CURRENT PLANS.
- 3 PROVIDE POWER AND DATA CONNECTIONS FOR TV IN PRIVATE ROOM, AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 4 PROVIDE POWER AND DATA CONNECTIONS FOR TV IN EXAM ROOM, AS REQUIRED. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5 POWER AND AV BOX FOR TELEVISION TO BE MOUNTED HIGH ON WALL. FROM THE AV BOX BEHIND TV PROVIDE (1) 1-1/2" DATA CONDUIT TO ACCESSIBLE CEILING SPACE OR IDF ROOM AND (1) 1-1/2" DATA CONDUIT TO LOWER AV BOX ON WALL. ALL COMMUNICATIONS WIRING TO BE BUNDLED AND SUPPORTED WITH J-HOOKS IN SECOND FLOOR CEILING SPACE OVER TO IDF ROOM, AS REQUIRED. COORDINATE ALL WORK, LOCATIONS, AND AV BOX SIZE WITH ARCHITECT.
- 6 PROVIDE A FIRE RATED POKE THROUGH WITH FLUSH FLOOR COMBINATION OUTLET, EQUAL TO HUBBELL SYSTEM ONE RECESSED 6 INCH CORE, #STR#PFTT. COORDINATE FINISH AND EXACT LOCATION WITH ARCHITECT. THE POWER CONDUIT SHOWN SHALL BE 3/4" MINIMUM. THE LOW VOLTAGE CONDUIT SHALL BE 1-1/2" UNLESS OTHERWISE DIRECTED BY LOW VOLTAGE CONSULTANT. PROVIDE (2) DUPLEX OUTLETS WITHIN BOX. COORDINATE COVERPLATE AND DEVICE SUB-PLATES WITH THE ARCHITECT BEFORE ORDERING. NOTE THAT LOCATION, AND INSTALLATION SHALL BE COORDINATED WITH THE ARCHITECT BEFORE INSTALLING.
- 7 MOUNT OUTLET AS REQUIRED FOR REFRIGERATOR. OUTLET SHALL BE MOUNTED ABOVE COUNTER HEIGHT BUT CONCEALED BY REFRIGERATOR. OUTLET SHALL BE LOCATED TO ALLOW UN-PLUGGING WITHOUT COMPLETE REMOVAL OF THE REFRIGERATOR.
- 8 PROVIDE ALL CONNECTIONS FOR RANGE HOOD AND RANGE CONTROLS, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH ACTUAL UNIT INSTALLATION GUIDE. ASSUME THAT POWER IS REQUIRED BOTH BEHIND UNIT AND ABOVE, BEHIND HOOD. FOR ADA REQUIREMENT PROVIDE CABINET MOUNTED SWITCH FOR RANGE HOOD. COORDINATE LOCATION WITH THE ARCHITECT.
- 9 PROVIDE ALL POWER CONNECTIONS FOR ELECTRIC RANGE, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH ACTUAL UNIT INSTALLATION GUIDE. COORDINATE LOCATION WITH THE ARCHITECT.
- 10 PROVIDE ALL POWER CONNECTIONS FOR ELECTRIC OVEN, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH ACTUAL UNIT INSTALLATION GUIDE. COORDINATE LOCATION WITH THE ARCHITECT.
- 11 MOUNT OUTLETS AS REQUIRED FOR FREEZER. OUTLET SHALL BE MOUNTED ABOVE COUNTER HEIGHT BUT CONCEALED BY FREEZER. OUTLET SHALL BE LOCATED TO ALLOW UN-PLUGGING WITHOUT COMPLETE REMOVAL OF THE FREEZER.
- 12 PROVIDE ALL CONNECTIONS FOR LAB HOOD AND CONTROLS, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH ACTUAL UNIT INSTALLATION GUIDE. COORDINATE LOCATION WITH THE ARCHITECT.
- 13 PROVIDE ALL POWER CONNECTIONS FOR COPIER, AS REQUIRED. COORDINATE ALL REQUIREMENTS WITH ACTUAL UNIT INSTALLATION GUIDE. COORDINATE LOCATION WITH THE ARCHITECT.
- 14 PROVIDE GFI DUPLEX OUTLET FOR DRINKING FOUNTAIN. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ARCHITECT STAMP CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA. PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
10-23-23 PLANNING DEPT. SUBMITTAL
10-19-23 PLANNING DEPT. SUBMITTAL
4-22-24 PLANNING DEPT. SUBMITTAL

REVISIONS:

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PROJECT TITLE:

**SANSUM DIABETES
RESEARCH
INSTITUTE**
2219 BATH STREET
SANTA BARBARA, CA
93105

SHEET TITLE:
ELECTRICAL
SECOND FLOOR POWER PLAN

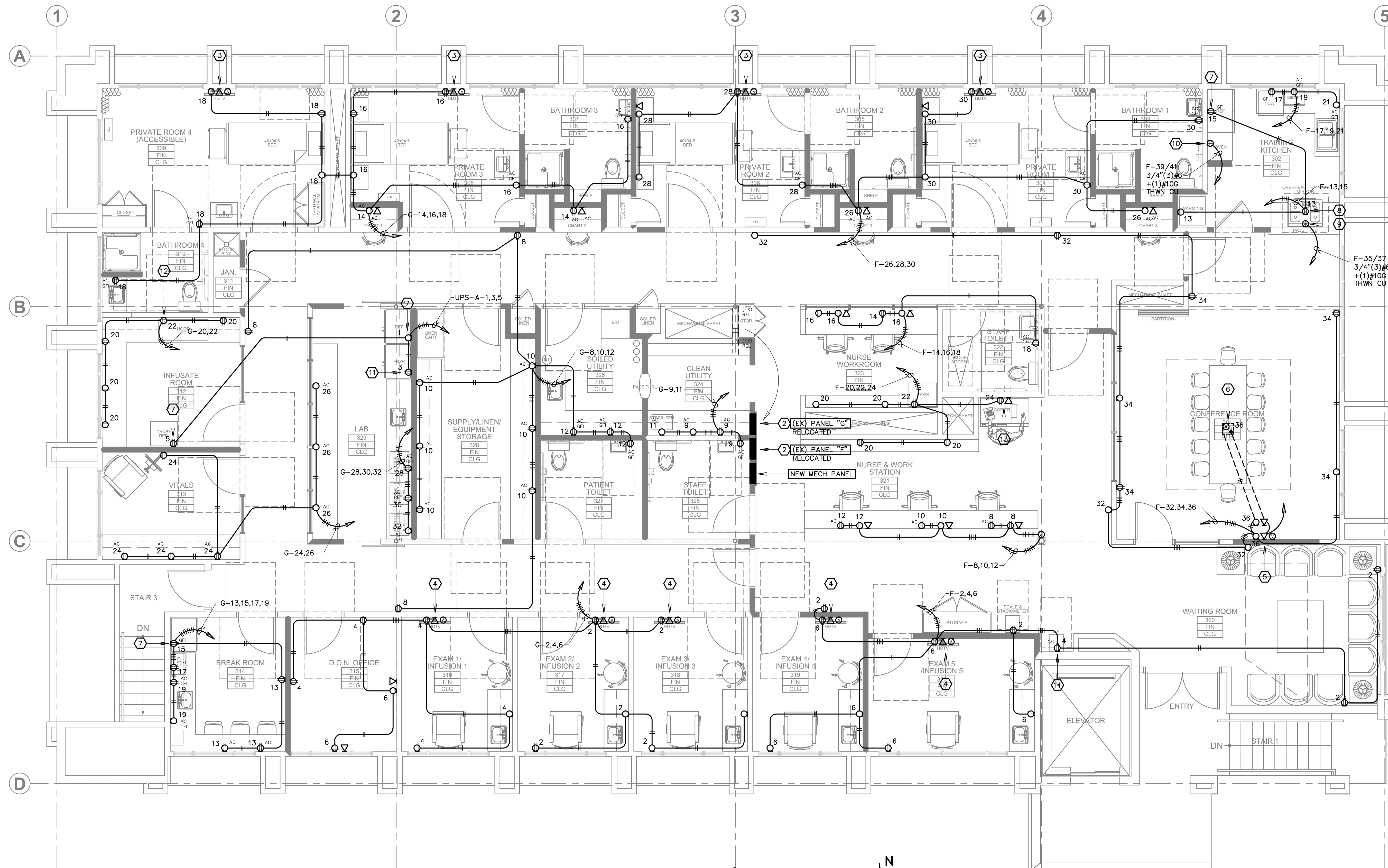
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

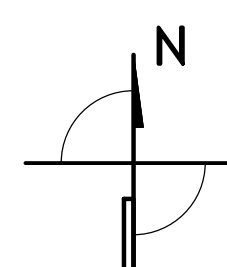
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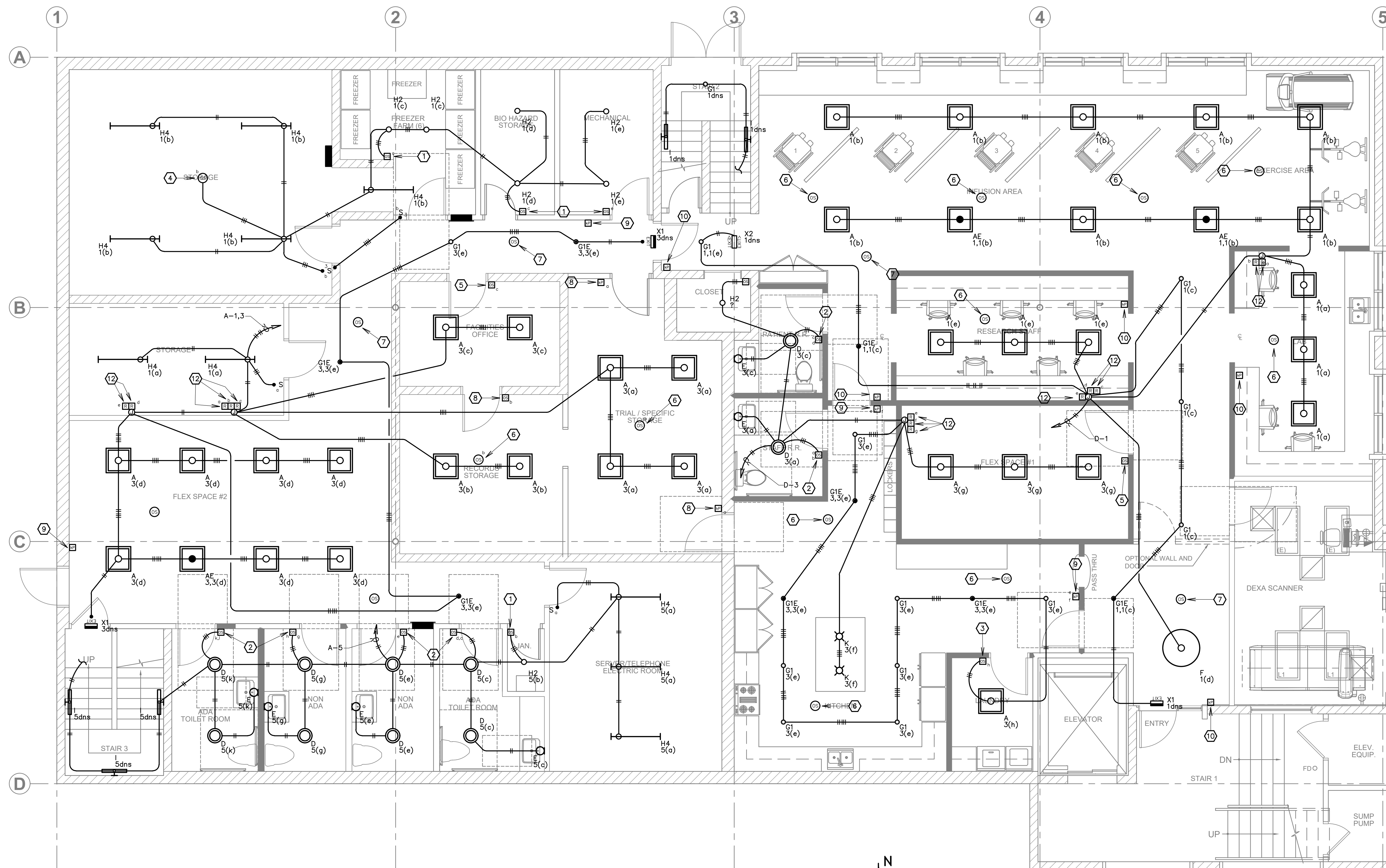
E2.2



SECOND FLOOR POWER PLAN

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





BASEMENT LIGHTING PLAN
SCALE: 1/4"=1'-0"

SHEET NOTES LEGEND

- 1 PROVIDE A SWITCHED, WALL MOUNTED OCCUPANCY SENSOR, EQUAL TO SENSOR SWITCH WSX-PDT-XX. ADJUST FOR PROPER OPERATION. ASSUME NEUTRAL AND GROUND MUST BE PULLED TO THE SWITCH (THIS MAY NOT BE SHOWN ON THE DRAWINGS), AND COORDINATE INSTALLATION WITH MANUFACTURER'S LITERATURE. COORDINATE FINISH WITH ARCHITECT BEFORE ORDERING.
- 2 PROVIDE A DUAL SWITCHED, WALL MOUNTED OCCUPANCY SENSOR, EQUAL TO SENSOR SWITCH WSX-PDT-2P-FAN-ASHRT-XX. POLE 2 TO CONTROL EXHAUST FAN, SEE POWER PLAN FOR CONTINUATION. ADJUST FOR PROPER OPERATION. ASSUME NEUTRAL AND GROUND MUST BE PULLED TO THE SWITCH (THIS MAY NOT BE SHOWN ON THE DRAWINGS), AND COORDINATE INSTALLATION WITH MANUFACTURER'S LITERATURE. COORDINATE FINISH WITH ARCHITECT BEFORE ORDERING.
- 3 PROVIDE A DIMMING SWITCH, WALL MOUNTED OCCUPANCY SENSOR, EQUAL TO SENSOR SWITCH WSX-PDT-D. ADJUST FOR PROPER OPERATION. ASSUME NEUTRAL AND GROUND MUST BE PULLED TO THE SWITCH (THIS MAY NOT BE SHOWN ON THE DRAWINGS), AND COORDINATE INSTALLATION WITH MANUFACTURER'S LITERATURE. COORDINATE FINISH WITH ARCHITECT BEFORE ORDERING.
- 4 PROVIDE A CEILING MOUNTED OCCUPANCY SENSOR, EQUAL TO SENSOR SWITCH #MWR-PDT-10. ADJUST FOR PROPER OPERATION TO SENSE MOVEMENT IN THE ROOM. ASSUME NEUTRAL AND GROUND MUST BE PULLED TO THE SWITCH (THIS MAY NOT BE SHOWN ON THE DRAWINGS), AND COORDINATE INSTALLATION WITH MANUFACTURER'S LITERATURE. PROVIDE ALL REQUIRED WIRING CONNECTIONS BETWEEN UNITS. THE INTO ROOM LIGHTING, NOTE THAT ALL MANUAL SWITCHES/DIMMERS SHALL BE RUN IN SERIES WITH THE OCCUPANCY SENSOR, CREATING A MASTER OCCUPANCY SENSOR DRIVEN CONTROL.
- 5 PROVIDE A NIGHT LOW VOLTAGE ON/OFF, RAISE/LOWER PUSH BUTTON WALL SWITCH SENSOR EQUAL TO #NWSX-PDT-LV-DX-XX. PROVIDE ALL REQUIRED CONNECTIONS AND CAT 5 CABLING BETWEEN THIS WALL SWITCH SENSOR AND ALL ROOM NIGHT CONTROLLED FIXTURES FOR A COMPLETE NIGHT T24 SYSTEM. COORDINATE ALL WORK AND LOCATIONS WITH ARCHITECT AND MANUFACTURER'S INSTALLATION INSTRUCTIONS. COORDINATE FINISH WITH ARCHITECT BEFORE ORDERING.
- 6 PROVIDE A NIGHT CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO #NWC-PDT-10-RUB. PROVIDE ALL REQUIRED CONNECTIONS AND CAT 5 CABLING BETWEEN CEILING MOUNTED OCCUPANCY SENSOR(S), LOW VOLTAGE WALLPOD(S) AND ALL ROOM NIGHT CONTROLLED FIXTURES OR RELAYS FOR A COMPLETE NIGHT T24 SYSTEM. COORDINATE ALL WORK AND LOCATIONS WITH ARCHITECT AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
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- 8 PROVIDE A NIGHT WALLPOD EQUAL TO NPDM-DX-XX TO CONTROL THE ROOM LIGHTS AS SHOWN. PROVIDE REQUIRED CAT 5 CABLING AS REQUIRED FOR A COMPLETE NIGHT CONTROL SYSTEM. COORDINATE BUTTON CONFIGURATIONS WITH OWNER/ARCHITECT FOR THIS LOCATION BEFORE ORDERING.
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- 11 PROVIDE A WALL MOUNTED DIGITAL TIME CLOCK EQUAL TO NIGHT EQUAL TO #NDTC-WH. PROVIDE ALL REQUIRED CONNECTIONS AND CAT 5 CABLING BETWEEN RELAY(S), CEILING MOUNTED SENSOR(S), AND LOW VOLTAGE WALLPOD(S) FOR A COMPLETE NIGHT T24 SYSTEM.
- 12 PROVIDE A NIGHT RELAY PACK EQUAL TO #NPP16-D FOR THE FIXTURES SHOWN. PROVIDE ALL REQUIRED CONNECTIONS AND CAT 5 CABLING BETWEEN RELAY(S), CEILING MOUNTED SENSOR(S), AND LOW VOLTAGE WALLPOD(S) FOR A COMPLETE NIGHT T24 SYSTEM. RELAYS SHALL BE MOUNTED IN AN ACCESSIBLE LOCATION. COORDINATE ALL WORK AND LOCATIONS WITH ARCHITECT AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ARCHITECT STAMP CONSULTANT STAMP



AGENCY APPROVAL: CITY OF SANTA BARBARA. PERMIT #:

MILESTONE DATES:
9-22-23 PLANNING DEPT. SUBMITTAL
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ELECTRICAL
BASEMENT LIGHTING PLAN

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

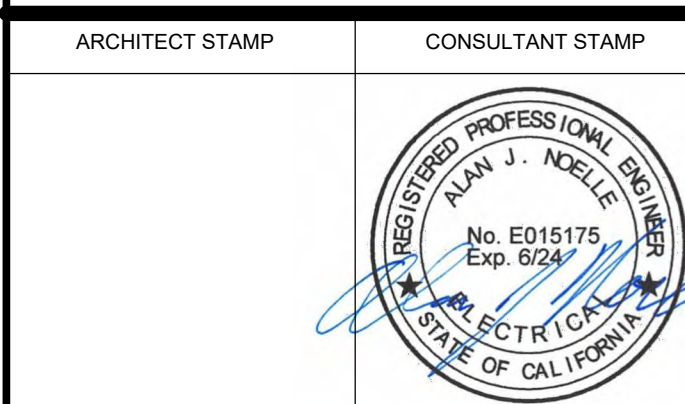
JOB NUMBER: 22004

SHEET ___ of ___

E3.0

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- 3 PROVIDE A DIMMING SWITCH, WALL MOUNTED OCCUPANCY SENSOR, EQUAL TO SENSOR SWITCH WSX-PDT-0 XX. ADJUST FOR PROPER OPERATION. ASSUME NEUTRAL AND GROUND MUST BE PULLED TO THE DIMMING SWITCH (THIS MAY NOT BE SHOWN ON THE DRAWINGS), AND COORDINATE INSTALLATION WITH MANUFACTURER'S LITERATURE. COORDINATE FINISH WITH ARCHITECT BEFORE ORDERING.
- 4 PROVIDE A NIGHT CEILING MOUNTED OCCUPANCY SENSOR EQUAL TO #NOM-PDT-9-RUB. PROVIDE ALL REQUIRED CONNECTIONS AND CAT 5 CABLING BETWEEN CEILING MOUNTED OCCUPANCY SENSOR(S), LOW VOLTAGE WALLPOD(S) AND ALL ROOM NIGHT CONTROLLED FIXTURES OR RELAYS FOR A COMPLETE NIGHT T24 SYSTEM. COORDINATE ALL WORK AND LOCATIONS WITH ARCHITECT AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.
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REVISIONS:

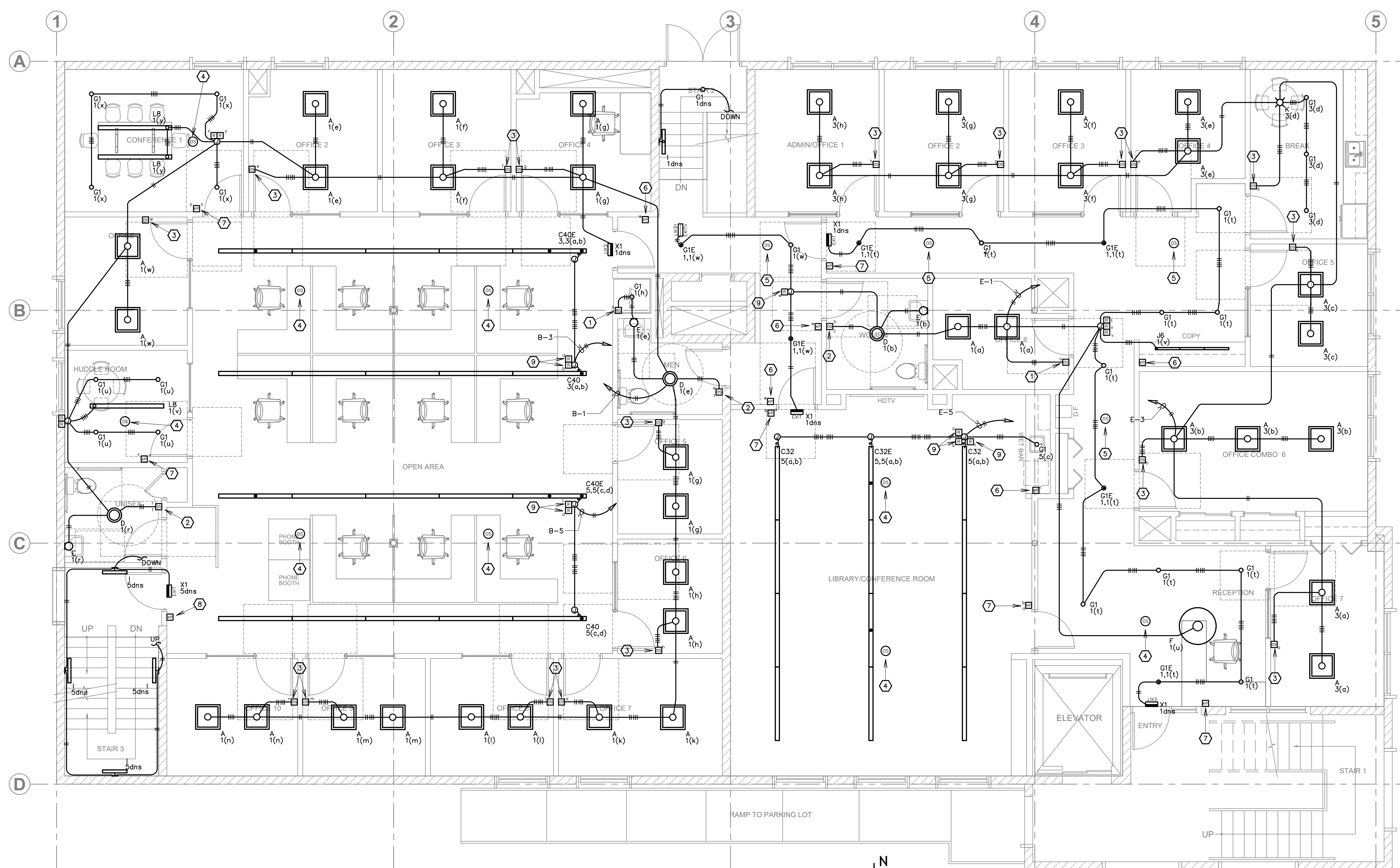
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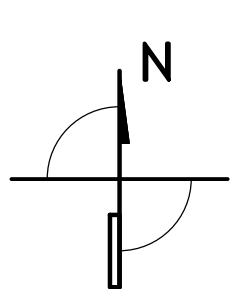
SHEET TITLE:
ELECTRICAL
FIRST FLOOR LIGHTING PLAN

DATE: 12-30-22
DRAWN BY: KEVIN M. MURPHY
JOB NUMBER: 22004

SHEET of
E3.1

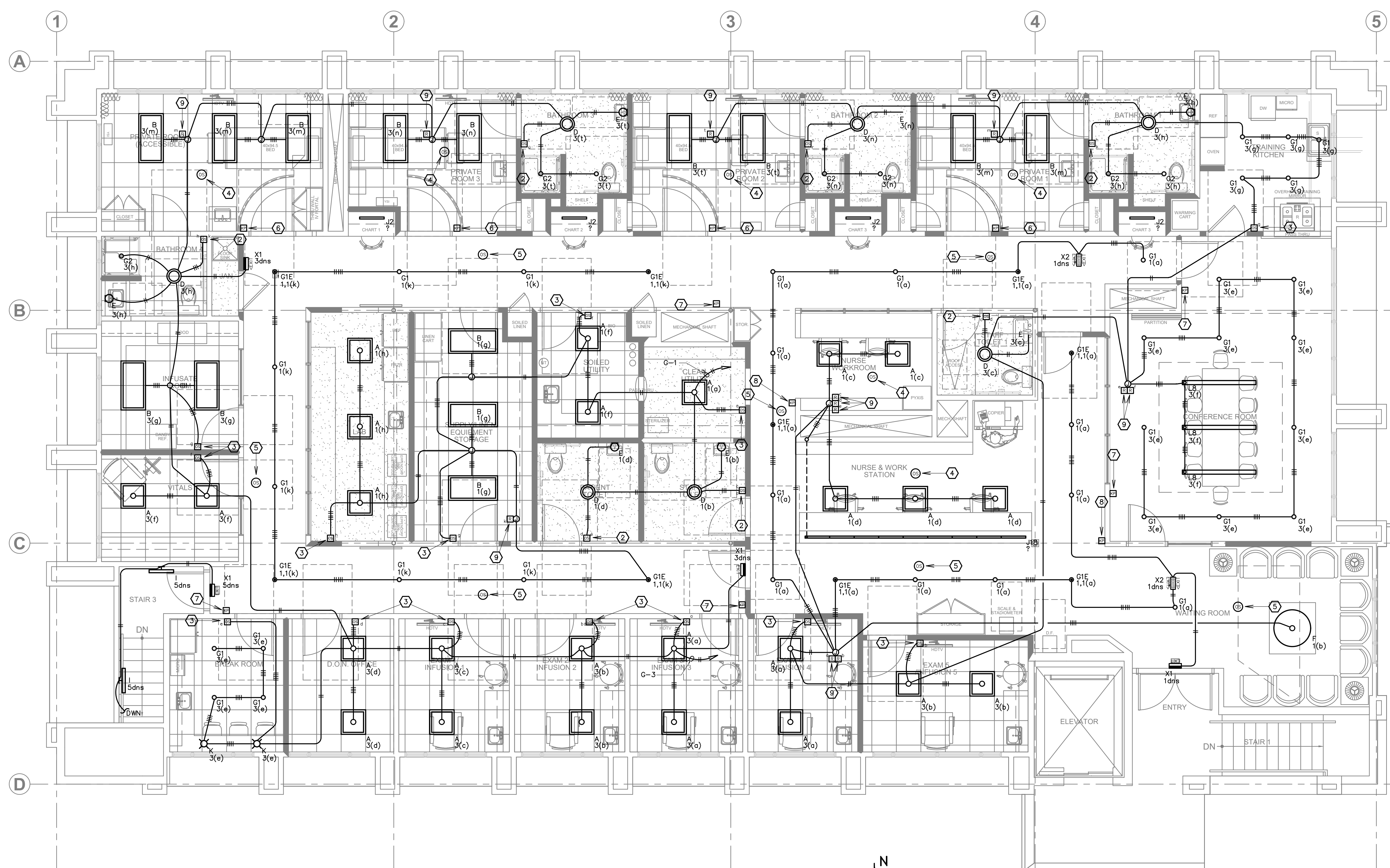


FIRST FLOOR LIGHTING PLAN
SCALE: 1/4"=1'-0"

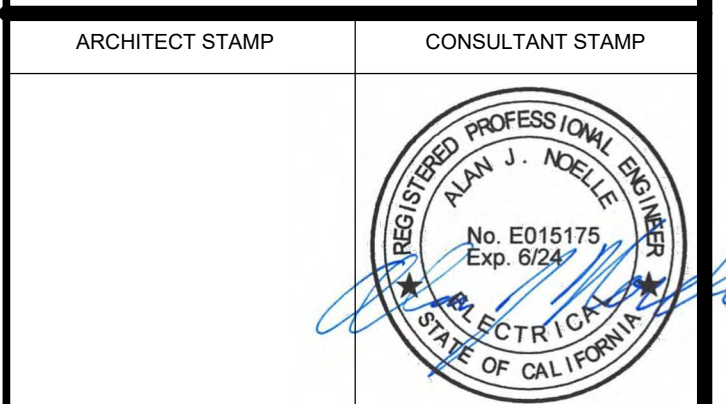


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SECOND FLOOR LIGHTING PLAN
SCALE: 1/4"=1'-0"



AGENCY APPROVAL: CITY OF SANTA BARBARA. PERMIT #:

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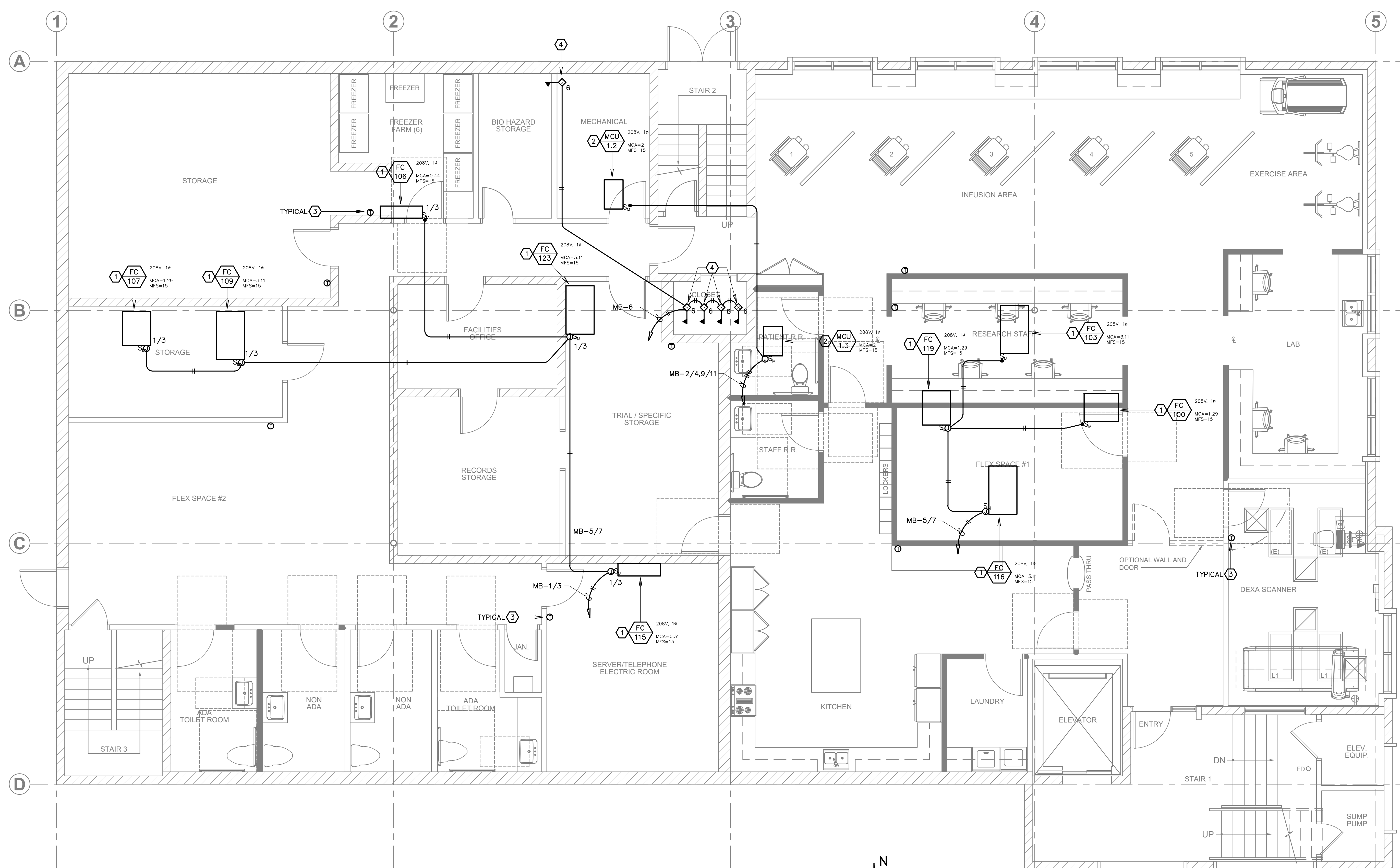
DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY
JOB NUMBER: 22004

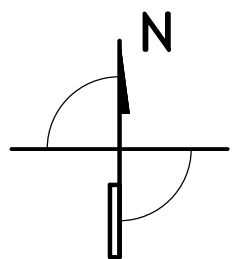
SHEET of
E3.2

SHEET NOTES LEGEND

- 1 PROVIDE ALL REQUIRED POWER CONNECTIONS TO FC UNIT. VERIFY FUSE SIZE OR MOTOR STARTER WITH UNIT NAMEPLATE IN FIELD. PROVIDE 3/4" CO. FOR LOW VOLTAGE CONTROL WIRING FROM UNIT TO ALL ASSOCIATED UNITS AND CONTROLS. SEAL ALL PENETRATIONS COMPLETELY WATERTIGHT. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL.
- 2 PROVIDE ALL REQUIRED POWER CONNECTIONS TO MJU UNIT. VERIFY FUSE SIZE OR MOTOR STARTER WITH UNIT NAMEPLATE IN FIELD. PROVIDE 3/4" CO. FOR LOW VOLTAGE CONTROL WIRING FROM UNIT TO ALL ASSOCIATED UNITS AND CONTROLS. SEAL ALL PENETRATIONS COMPLETELY WATERTIGHT. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL.
- 3 PROVIDE 3/4" CO TO UNIT T-STAT FOR LOW VOLTAGE CONTROL WIRING FROM ASSOCIATED MECHANICAL UNIT, AS REQUIRED. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL.
- 4 PROVIDE 120V POWER, AS REQUIRED, AT EACH SMOKE/FIRE DAMPER. IF A LOCAL DISCONNECT IS REQUIRED, A STANDARD SNAP SWITCH MAY BE USED, IF PROPERLY LABELED. PROVIDE ALL FIRE ALARM WIRING TO CONNECT TO FIRE ALARM SYSTEM. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL.



BASEMENT MECHANICAL PLAN
SCALE: 1/4"=1'-0"



ARCHITECT STAMP	CONSULTANT STAMP

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9-22-23	PLANNING DEPT. SUBMITTAL
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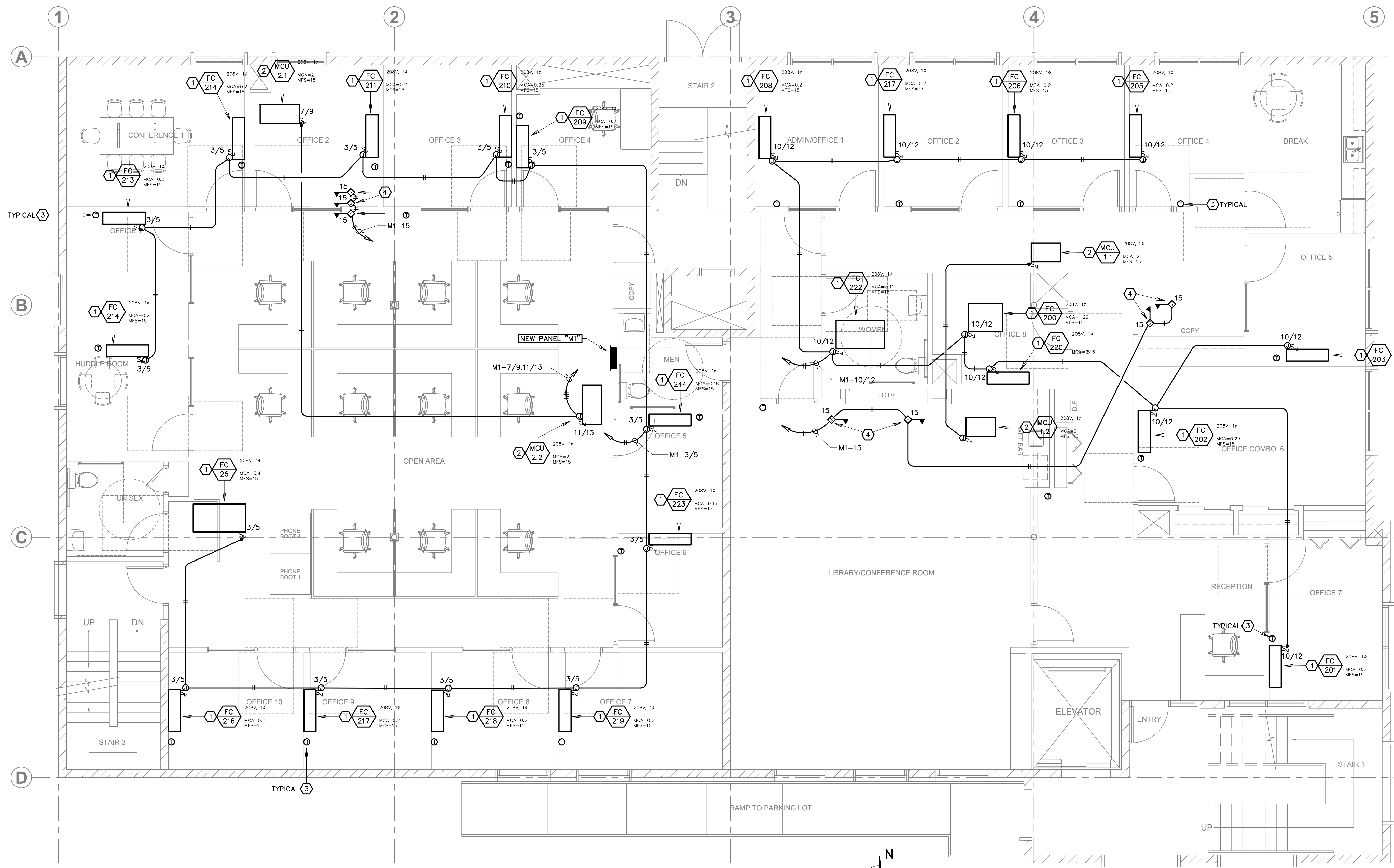
SHEET TITLE:
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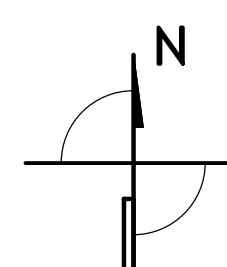
SHEET ___ of ___
E4.0

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FIRST FLOOR MECHANICAL PLAN
SCALE: 1/4"=1'-0"



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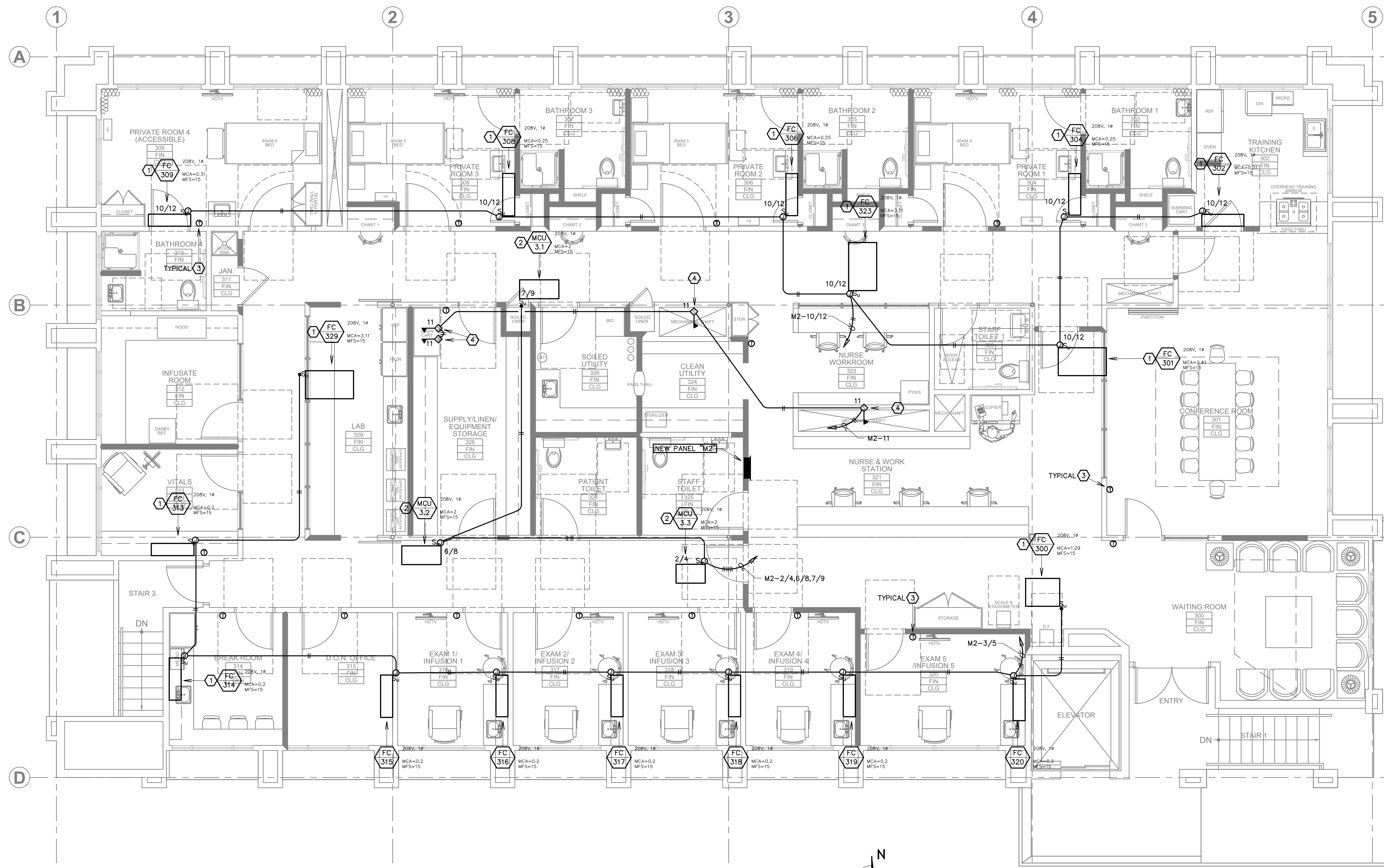
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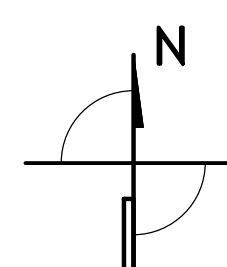
ANE
Alan Noelle Engineering
3639 Harbor Blvd, Suite 204
Ventura, CA 93001
phone: 805.563.5444
alan@aneng.com
Electrical Engineering Lighting Design
A230206141.dwg 2.16.23

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SECOND FLOOR MECHANICAL PLAN
SCALE: 1/4"=1'-0"



ARCHITECT STAMP	CONSULTANT STAMP

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4-22-24	PLANNING DEPT. SUBMITTAL

REVISIONS:

THE ARCHITECT DOES NOT REPRESENT THAT THESE PLANS OR THE SPECIFICATIONS ARE SUITABLE FOR ANY SITE OTHER THAN THE ONE FOR WHICH THEY WERE SPECIFICALLY PREPARED. THE ARCHITECT DISCLAIMS RESPONSIBILITY FOR THESE PLANS AND SPECIFICATIONS IF THEY ARE USED IN WHOLE OR IN PART AT ANY OTHER SITE.

PROJECT TITLE:

**SANSUM DIABETES
RESEARCH
INSTITUTE**
2219 BATH STREET
SANTA BARBARA, CA
93105

SHEET TITLE:
ELECTRICAL
SECOND FLOOR POWER PLAN

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

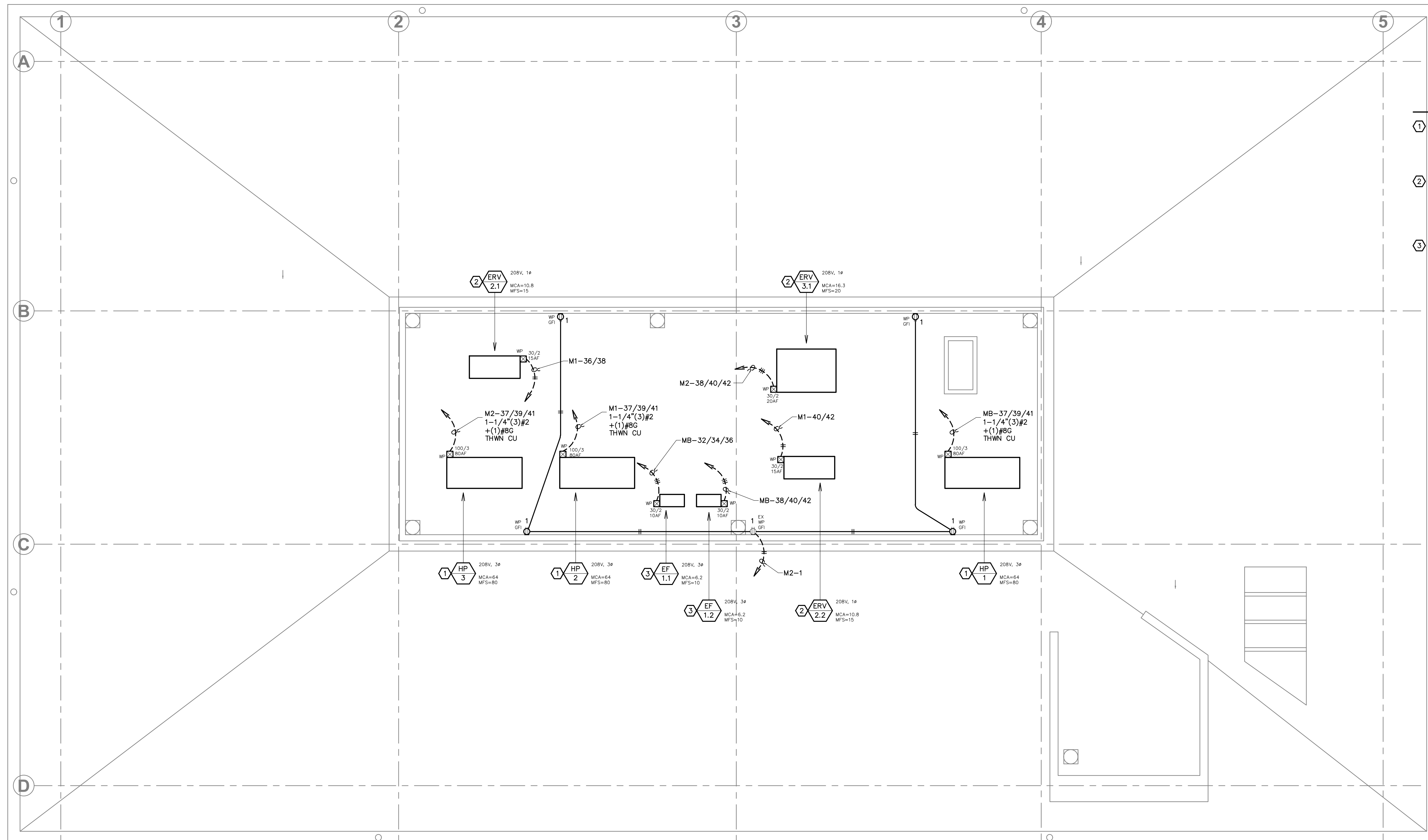
JOB NUMBER: 22004

SHEET ___ of ___

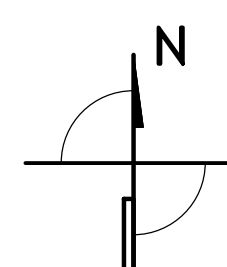
E4.2

SHEET NOTES LEGEND

- 1 PROVIDE ALL REQUIRED POWER CONNECTIONS TO EXTERIOR ROOF HP UNIT AND ALL CONTROL WIRING INTERFACES. IF REQUIRED, PROVIDE 3/4" CO. FOR LOW VOLTAGE CONTROL WIRING FROM UNIT TO ALL ASSOCIATED UNITS AND CONTROLS (NOT SHOWN ON PLANS). VERIFY UNIT FUSE SIZE WITH UNIT NAMEPLATE IN FIELD. SEAL ALL PENETRATIONS COMPLETELY WATERTIGHT. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL.
- 2 PROVIDE ALL REQUIRED POWER CONNECTIONS TO EXTERIOR ROOF ERV UNIT AND ALL CONTROL WIRING INTERFACES. IF REQUIRED, PROVIDE 3/4" CO. FOR LOW VOLTAGE CONTROL WIRING FROM UNIT TO ALL ASSOCIATED UNITS AND CONTROLS (NOT SHOWN ON PLANS). VERIFY UNIT FUSE SIZE (MANUAL MOTOR STARTER) WITH UNIT NAMEPLATE IN FIELD. SEAL ALL PENETRATIONS COMPLETELY WATERTIGHT. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL.
- 3 PROVIDE ALL REQUIRED POWER CONNECTIONS TO EXTERIOR ROOF EF UNIT AND ALL CONTROL WIRING INTERFACES. IF REQUIRED, PROVIDE 3/4" CO. FOR LOW VOLTAGE CONTROL WIRING FROM UNIT TO ALL ASSOCIATED UNITS AND CONTROLS (NOT SHOWN ON PLANS). VERIFY UNIT FUSE SIZE (MANUAL MOTOR STARTER) WITH UNIT NAMEPLATE IN FIELD. SEAL ALL PENETRATIONS COMPLETELY WATERTIGHT. COORDINATE ALL WORK AND LOCATIONS WITH MECHANICAL.



ROOF MECHANICAL PLAN
SCALE: 1/4"=1'-0"



ARCHITECT STAMP	CONSULTANT STAMP

AGENCY APPROVAL: CITY OF SANTA BARBARA.
PERMIT #:

MILESTONE DATES:

9-22-23	PLANNING DEPT. SUBMITTAL
10-2-23	PLANNING DEPT. SUBMITTAL
10-19-23	PLANNING DEPT. SUBMITTAL
4-22-24	PLANNING DEPT. SUBMITTAL

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SANSUM DIABETES RESEARCH INSTITUTE
2219 BATH STREET
SANTA BARBARA, CA 93105

SHEET TITLE:
ELECTRICAL
ROOF MECHANICAL PLAN

DATE: 12-30-22

DRAWN BY: KEVIN M. MURPHY

JOB NUMBER: 22004

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E4.3

STATE OF CALIFORNIA
Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: Sansum SDRI
 Report Page: (Page 1 of 9)
 Date Prepared: 2023-09-15 14:47:03

A. GENERAL INFORMATION	
01 Project Location (city)	Santa Barbara
02 Climate Zone	5
03 Occupancy Types Within Project (select all that apply):	06 # of Stories (Habitable Above Grade) 2
<input type="checkbox"/> Medical Clinic <input type="checkbox"/> Office	

B. PROJECT SCOPE				
This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.				
Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
<input checked="" type="checkbox"/> New Lighting System	Area Category Method	18720	N/A	0
<input type="checkbox"/> New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)		18720		

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C. COMPLIANCE RESULTS										
If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.										
Lighting in conditioned and unconditioned spaces must be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)					Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)			Compliance Results	
	01	02	03	04	05	06	07	08	09	
	Complete Building 140.6(c)1	Area Category 170.2(e)2	Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	Total Allowed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(a)1B (-)	=	Total Adjusted (Watts) *Includes Adjustments	05 must be >= 08 140.6 / 170.2(e)
(See Table I)	(See Table J)	(See Table J)	(See Table K)	=	15,995.55		=	12,845.9	COMPLIES	
Conditioned	15,995.55			=	15,995.55		=	12,845.9	COMPLIES	
Unconditioned				=			=		COMPLIES	
Controls Compliance (See Table H for Details)										
Rated Power Reduction Compliance (See Table Q for Details)										

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

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

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F. INDOOR LIGHTING FIXTURE SCHEDULE											
This table includes all planned permanent and portable lighting other than dwelling unit/hotel/motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.											
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 is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Field Inspector	Pass	Fail
A	LED 2X2	No	NA	42.8	Mfr. Spec	96	No	4,108.8	<input type="checkbox"/>	<input type="checkbox"/>	
B	LED 2x4	No	NA	40.6	Mfr. Spec	14	No	568.4	<input type="checkbox"/>	<input type="checkbox"/>	
C32	LED DIRECT	No	NA	54.0	Mfr. Spec	3	No	1,620	<input type="checkbox"/>	<input type="checkbox"/>	
C40	LED DIRECT	No	NA	64.0	Mfr. Spec	4	No	2,560	<input type="checkbox"/>	<input type="checkbox"/>	
D	LED SURFACE	No	NA	23	Mfr. Spec	18	No	414	<input type="checkbox"/>	<input type="checkbox"/>	
E	LED FLOW	No	NA	16	Mfr. Spec	14	No	224	<input type="checkbox"/>	<input type="checkbox"/>	
F	LED RING	No	NA	132	Mfr. Spec	2	No	264	<input type="checkbox"/>	<input type="checkbox"/>	
GL/G1E	LED DOWNLIGHT	No	NA	14.3	Mfr. Spec	93	No	1,329.9	<input type="checkbox"/>	<input type="checkbox"/>	
G2	LED DOWNLIGHT	No	NA	12.5	Mfr. Spec	7	No	87.5	<input type="checkbox"/>	<input type="checkbox"/>	
H2	LED STRIP	No	NA	21.3	Mfr. Spec	7	No	149.1	<input type="checkbox"/>	<input type="checkbox"/>	
H4	LED STRIP	No	NA	42.3	Mfr. Spec	10	No	423	<input type="checkbox"/>	<input type="checkbox"/>	
I	LED INDIRECT	No	NA	51	Mfr. Spec	12	No	612	<input type="checkbox"/>	<input type="checkbox"/>	
J2	LED STRIP	No	NA	8.8	Mfr. Spec	4	No	35.2	<input type="checkbox"/>	<input type="checkbox"/>	
J6	LED STRIP	No	NA	26.4	Mfr. Spec	1	No	26.4	<input type="checkbox"/>	<input type="checkbox"/>	
J18	LED STRIP	No	NA	79.2	Mfr. Spec	1	No	79.2	<input type="checkbox"/>	<input type="checkbox"/>	
K	LED PENDANT	No	NA	6	Mfr. Spec	3	No	18	<input type="checkbox"/>	<input type="checkbox"/>	
L8	LED DIRECT	No	NA	54.4	Mfr. Spec	6	No	326.4	<input type="checkbox"/>	<input type="checkbox"/>	
						Total Designed Watts: CONDITIONED SPACES		12,845.9			

¹FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(b)4B / 170.2(e)2D is adjusted to be 75%/80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.

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STATE OF CALIFORNIA
Indoor Lighting
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F. INDOOR LIGHTING FIXTURE SCHEDULE
 Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.

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

H. INDOOR LIGHTING CONTROLS (Not including PAFs)			
This table includes lighting controls for conditioned and unconditioned spaces.			
Building Level Controls			
01	02	03	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Field Inspector	
NA < 4,000W subject to multilevel	See Area/Space Level Controls	Pass	Fail

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Indoor Lighting
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H. INDOOR LIGHTING CONTROLS (Not including PAFs)											
Area Level Controls											
04	05	06	07	08	09	10	11	12			
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(e) / 160.5(b)4E	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Field Inspector		Verified	
CONFERENCE	Convention, Conference, Multipurpose and Meeting Center	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>	Systems/Spaces To Be Field Verified	
OFFICE	Office (>250 square feet)	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>	CONFERENCE, OFFICE; RESTROOMS, EXAM ROOMS/TREATMENT; RESEARCH AREAS	
RESTROOMS	Restroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>		
EXAM ROOMS/TREATMENT	Hospital - Exam/Treatment	Readily Accessible	Restrooms	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>		
RESEARCH AREAS	Laboratory Area, Scientific	Readily Accessible	Dimmer	Occupancy Sensor	NA: Not daylight zone	NA: Not daylight zone	No	<input type="checkbox"/>	<input type="checkbox"/>		
13 Plan Sheet Showing Daylit Zones:											

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS						
Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used.						
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 Allowance / Adjustment Area Category PAF	
CONFERENCE	Convention, Conference, Multipurpose and Meeting Center	0.75	1,510	1,132.5	No	No
OFFICE	Office (>250 square feet)	0.6	6,240	3,744	No	No
RESTROOMS	Restroom	0.65	1,245	809.25	No	No
EXAM ROOMS/TREATMENT	Hospital - Exam/Treatment	1.14	6,240	7,176	No	No
RESEARCH AREAS	Laboratory Area, Scientific	0.9	3,482	3,133.8	No	No
		TOTALS:	18,717	15,995.55	See Tables J, or P for detail	

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

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

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

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

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

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

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

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

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

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

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

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

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STATE OF CALIFORNIA
Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: Sansum SDRI
 Report Page: (Page 8 of 9)
 Date Prepared: 2023-09-15 14:47:03

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE		
Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html		
Form/Title		
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Verified	Systems/Spaces To Be Field Verified
	<input type="checkbox"/>	CONFERENCE, OFFICE; RESTROOMS, EXAM ROOMS/TREATMENT; RESEARCH AREAS

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Indoor Lighting
 CERTIFICATE OF COMPLIANCE
 Project Name: Sansum SDRI
 Report Page: (Page 9 of 9)
 Date Prepared: 2023-09-15 14:47:03

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Alan Noelle	Documentation Author Signature:
Company: Alan Noelle Engineering	Signature Date: 9.15.23
Address: 3639 Harbor Blvd., Suite 204	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Ventura, CA 93001	Phone: (805)563-5444
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the State of California:	
<ol style="list-style-type: none"> The information provided on this Certificate of Compliance is true and correct. 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). 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. 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. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available to be included with the documentation the builder provides to the building inspector upon occupancy 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 inspector upon occupancy inspections. 	
Responsible Designer Name: Alan Noelle Engineering	Responsible Designer Signature:
Company: Alan Noelle Engineering	Date Signed: 9.15.23
Address: 3639 Harbor Blvd., Suite 204	License: E015175
City/State/Zip: Ventura, CA 93001	Phone: (805)563-5444

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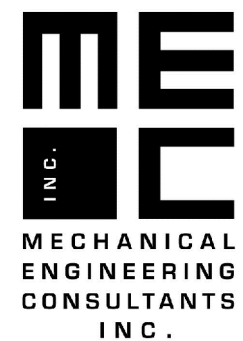
114 East De La Guerra Street
 No. 5A
 Santa Barbara, CA 93101
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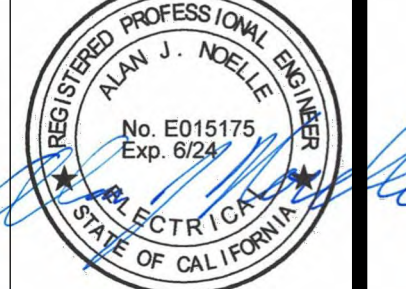


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ARCHITECT STAMP CONSULTANT STAMP



AGENCY APPROVAL: CITY OF SANTA BARBARA.
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MILESTONE DATES:
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PROJECT TITLE:
SANSUM DIABETES RESEARCH INSTITUTE
 2219 BATH STREET
 SANTA BARBARA, CA 93105

SHEET TITLE:
 ELECTRICAL
 TITLE 24

DATE: 12-30-22
 DRAWN BY: KEVIN M. MURPHY
 JOB NUMBER: 22004

SHEET ___ of ___
E5.0

ANE
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 alan@aneng.com
 Electrical Engineering Lighting Design
 A23020250.dwg 9.15.23