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file:



# COLLEGE OF MARIN INDIAN VALLEY CAMPUS BUILDING 11 RENOVATION

1800 IGNACIO BLVD.  
NOVATO, CA 94949

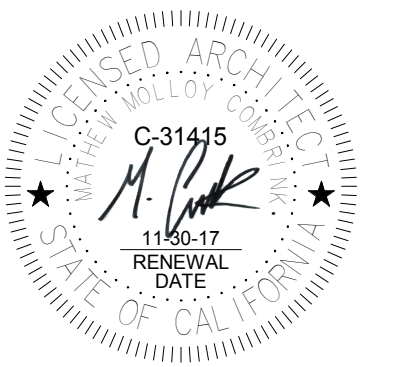
100% CONSTRUCTION DOCUMENTS/BID SET  
03.10.17

brick.

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3/10/17 100% CD/BID SET  
rev date issue



college of marin -  
indian valley  
campus bldg. 11  
renovation

novato, california  
project number: 16-148.01

scale: as noted  
date: 03/10/2017

CONSTRUCTION  
DOCUMENTS  
TITLE SHEET

G0.0



☉	CENTERLINE ANGLE	LAB. LAM. LAV. LT.	LABORATORY LAMINATE LAVATORY LIGHT
ACOUS. AGG. AL. APPROX. ARCH. A.P.L. A.F.F. ADDL.	ACOUSTICAL ADJUSTABLE AGGREGATE ALUMINUM APPROXIMATE ARCHITECTURAL ASSUMED PROPERTY LINE ABOVE FINISH FLOOR ADDITIONAL	MAT. MAX. M.C. MECH. MEMB. MET. MFR. MIN. M. MISC. M.O. MTD. MUL. MS. M.B. MK MBH	MATERIAL MAXIMUM MEDICINE CABINET MECHANICAL MEMBRANE METAL MANUFACTURER MINIMUM MIRROR (FRAMED) MISC MASONRY OPENING MOUNTED MULLION MEDICAL GAS PANEL MACHINE BOLT MARKER BOARD MOP AND BROOM HOLDER
BD. BTUM. BLDG. BLKG. BM. BOT. BTWN.	BOARD BITUMINOUS BUILDING BLOCKING BEAM BOTTOM BETWEEN	(N) NEW N.I.C. NOT IN CONTRACT NO. or # NOM. NOMINAL N.T.S. NOT TO SCALE	
CAB. C.B. C.T. C.C.T. C.I. CLG. CL CLR. COL. CONC. CONCT. CORR. CTSK. C.M.U. C.D.U.	CABINET CATCH BASIN CERAMIC TILE CUBICLE CURTAIN TRACK CAST IRON CEILING CENTER LINE CLEAR COLUMN CONCRETE CONTINUOUS CORRIDOR COUNTERSUNK CONCRETE MASONRY COMBINATION DISPENSING UNIT	O/A OVERALL O.C. ON CENTER O.D. OUTSIDE DIAMETER OPP. OPPOSITE O.F.D. OVERFLOW DRAIN OFOI OWNER FURNISHED, OWNER INSTALLED OFCI OWNER FURNISHED, CONTRACTOR INSTALLED O.T.A OPEN TO ABOVE	
D.A. DEPT. D.F. DET. DIA. DIM. DISP. DN. DR. DS. DWG. D.D. D.F.	DISABLED ACCESSIBILITY DOUBLE DEPARTMENT DRINKING FOUNTAIN DETAIL DIAMETER DIMENSION DISPENSER DOWN DOOR DOWNSPOUT DRAWING DECK DRAIN DOUGLAS FIR	PEN. PL. P.LAM. PLYWD. PR. PTD. PTD. P.A.D. P.I.P. P.T. PTN. PV Q.T.	PENETRATION(S) PLATE PLASTIC LAMINATE PLYWOOD PAIR PAPER TOWEL DISPENSER PAINTED POWER ACTUATED DEVICE POURED-IN-PLACE PRESSURE TREATED PARTITION PHOTOVOLTAIC QUARRY TILE
(E) EA. E.J. EL. ELEC. ELEV. EMERG. ENCL. EQ. EQPT. E.W.C. EXP. EXT.	EXISTING EACH EXPANSION JOINT ELEVATION ELECTRICAL ELEVATOR EMERGENCY ENCLOSURE EQUAL EQUIPMENT ELECTRIC WATER COOLER EXPANSION EXTERIOR	R. RAD. R.D. REF. REFR. RENOV. REQD. RESIL. R.H. RM. R.O. RT. R.W.D. R.W.L.	RISER RADIUS ROOF DRAIN REFERENCE REFRIGERATOR REINFORCED REQUIRED RESILIENT ROBE HOOK ROOM ROUGH OPENING RESILIENT TILE REDWOOD RAIN WATER LEADER
F.A. F.C.O. F.D. FDN. F.E. F.E.C. F.H.C. FIN. FL. FLUOR. F.O.C. F.O.F. F.O.S. F.S.S. FT. FTG. FURR. F.H.S. F.R.	FIRE ALARM FLOOR CLEAN OUT FLOOR DRAIN FOUNDATION FIRE EXTINGUISHER FIRE EXTINGUISHER CAB. FIRE HOSE CABINET FINISH FLOOR FLUORESCENT FACE OF CONCRETE FACE OF FINISH FACE OF STUDS FOLDING SHOWER SEAT FOOT OR FEET FOOTING FURRING FLAT HEAD SCREW FIRE RETARDANT	S.C. SCD. SCHED. SD SECT. SH. SHWR. SHT. SIM. S.M.S. SND SNTV. SSD STD. STL. STR. STRL. SUSP.	SOLID CORE SEAT COVER DISPENSER SCHEDULE SOAP DISPENSER SECTION SHELF SHOWER SHOWER SHEET SIMILAR SHEET METAL SCREW SANITARY NAPKIN DISPOSAL SANITARY NAPKIN VENDOR SEE STRUCTURAL DRAWINGS STANDARD STEEL STORAGE STRUCTURAL SUSPENDED TOILET SEAT COVER DISPENSER TRENCH DRAIN TREAD TOWEL BAR TOP OF CURB/CONCRETE TELEPHONE TERRAZZO TONGUE AND GROOVE THICK TACKBOARD TOP OF PAVEMENT/TELEPHONE PANELBOARD TOILET PAPER DISPENSER TELEVISION TYPICAL TOP OF STEEL TOP OF WALL
GA. GALV. G.B.R. GL. GND. GYP. G.W.B. GEN.	GAGE GALVANIZED GRAB BAR REINFORCEMENT GLASS GROUND GYPSUM GYPSUM WALL BOARD GENERAL	TCD T.D. TRD. T.B. T.O.C. TEL. TER. T.&G. THK. TK.BD. T.P. TPD TYP T.O.S. T.O.W.	TOILET SEAT COVER DISPENSER TRENCH DRAIN TREAD TOWEL BAR TOP OF CURB/CONCRETE TELEPHONE TERRAZZO TONGUE AND GROOVE THICK TACKBOARD TOP OF PAVEMENT/TELEPHONE PANELBOARD TOILET PAPER DISPENSER TELEVISION TYPICAL TOP OF STEEL TOP OF WALL
H.B. H.C. H.M. HORIZ. HR.	HOSE BIBB HOLLOW CORE HOLLOW METAL HORIZONTAL HOUR	U.O.N. UNLESS OTHERWISE NOTED	
I.D. INSUL. INT. IVT.	INSIDE DIAMETER INSULATION INTERIOR INTRAVENOUS TRACK	VCT VDB VERT. VEST.	VINYL COMPOSITION TILE VISUAL DISPLAY BOARD VERTICAL VESTIBULE
JAN. J.T. KIT.	JANITOR JOINT KITCHEN	W/ W.C. WD. W.O. W/O WP. WR WT.	WITH WATER CLOSET WOOD WHERE OCCURS WITHOUT WATERPROOF WASTE RECEPTACLE WEIGHT

**ABBREVIATIONS**

**CLIENT:**  
COLLEGE OF MARIN  
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ANDREW MCGANN

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DAN DAVIS  
DAN@DDCOMM.BIZ

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C: 415-425-0943  
TIM SCHMIDT  
TSCHMIDT@ACOUSTICAE.COM

**PROJECT DIRECTORY**

APPLICABLE STATE & LOCAL CODES

- 2016 BUILDING STANDARDS ADMINISTRATION CODE, PART 1, TITLE 24 C.C.R.
- 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
- 2016 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
- 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
- 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
- 2016 CALIFORNIA ELEVATOR CODE, PART 7, TITLE 24 C.C.R.
- 2016 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
- 2016 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
- 2016 TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATION
- 2016 CALIFORNIA GREEN BUILDING CODE
- 2016 CALIFORNIA ENERGY CODE

PARTIAL LIST OF APPLICABLE STATE STANDARDS

- NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED) 1999 EDITION (NOTE SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
- REFERENCE CODE SECTION FOR NFPA STANDARDS - CBC (SFM) 3504.1
- ASME A17.1-1993 FOR SECTION 7-3094 PART 7, C.C.R. TITLE 24
- ASME A18.1-1999 FOR SECTION 7-3094 PART 7, C.C.R. TITLE 24
- ANSI/HMMA A156.10-1985 AMERICAN NATIONAL STANDARD FOR POWER OPERATED PEDESTRIAN DOORS
- ANSI A156.19-1994 AMERICAN NATIONAL STANDARD FOR POWER ASSIST AND LOW ENERGY POWER OPERATED DOORS

APPLICABLE ACCESSIBILITY STANDARDS

- 2016 CALIFORNIA BUILDING CODE (CBC) CHPT. 11B
- AMERICANS WITH DISABILITIES ACT (ADA) USING 2010 ADA STANDARDS (ADAS) FOR ALL PUBLIC ACCOMMODATION AREAS

**APPLICABLE CODES**

- ALL DIMENSIONS ARE TO FACE OF FINISHED SURFACE, CENTERLINE OF COLUMN, OR OTHER GRID POINT, AND CENTERLINE OF DOOR OR OTHER SCHEDULED OPENING UNLESS OTHERWISE NOTED.
- DATUM ELEVATION 0'-0" IS GIVEN AS THE BENCHMARK FOR T.O. LEVEL.
- THE CONTRACTOR SHALL COORDINATE LAYOUT DIMENSIONS INDICATED ON THE ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS WITH THOSE INDICATED ON THE ARCHITECTURAL BEFORE PROCEEDING WITH THE WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT DIMENSIONS AND ELEVATIONS.
- IN THE EVENT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE CONSTRUCTION DOCUMENTS, THEN THEIR CONSTRUCTIONS SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE SHOWN.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING ELECTRICAL, MECHANICAL, TELEPHONE, FIRE, AND SECURITY REQUIREMENTS PRIOR TO COMMENCING WITH CONSTRUCTION.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE CHECKED AND VERIFIED ON THE PROJECT SITE BY THE CONTRACTOR AND EACH TRADE PRIOR TO COMMENCING WITH CONSTRUCTION. ANY ERRORS, OMISSIONS, AND DISCREPANCIES SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION BEFORE CONSTRUCTION BEGINS.
- ALL ITEMS ARE NEW UNLESS SPECIFICALLY INDICATED OR NOTED AS EXISTING.
- BRICK INC. HAS PREPARED THESE DOCUMENTS ONLY FOR THE SPECIFIED, DETAILED, INDICATED OR SHOWN AS NEW WORK AND ASSUMES NO RESPONSIBILITY FOR OTHER CONSTRUCTION, MATERIAL OR EQUIPMENT NOTED, OR INDICATED BY "PROVIDED BY OTHERS".
- UNLESS OTHERWISE SPECIFIED, BRICK INC. HAS NEITHER CHECKED, NOR VERIFIED THE STRUCTURAL INTEGRITY, QUALITY OF CONSTRUCTION AND ANY OTHER WORK NOT INCLUDED AS PART OF THESE DOCUMENTS.
- ALL "MIN," "MAX," AND "CLEAR" DIMENSIONS ARE FROM FACE OF FINISH SURFACE.
- PERFORM DEMOLITION OF EXISTING AREAS WITH GREAT CARE IN ORDER NOT TO JEOPARDIZE STRUCTURE AND EQUIPMENT TO REMAIN.
- ALL WORK SHALL BE PERFORMED IN CONFORMANCE WITH ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES, LAWS, ORDINANCES, AND REGULATIONS APPLICABLE. NOTHING IN THE CONTRACT DOCUMENTS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES, LAWS, ORDINANCES AND REGULATIONS.

**GENERAL NOTES**

INTERIOR RENOVATION OF AN EXISTING 1970'S TWO-STORY BUILDING WITH AN APPROX. 6400 SF. FT. RENOVATION AREA COMPRISING MAINLY OF THE ENTIRE SECOND FLOOR AND PARTIAL SCOPE OF THE 1<sup>ST</sup> FLOOR. THE NEWLY RENOVATED AREA WILL HOUSE THE CAMPUS HUMAN RESOURCE DEPARTMENT ADMINISTRATIVE OFFICES. THE EXISTING BUILDING STRUCTURE IS COMPOSED OF DEEP PILE CONCRETE COLUMNS, GLUE LAMINATED BEAMS, FLOOR JOISTS AND ROOF RAFTERS. AN EXISTING ELEVATOR AND INTERIOR STAIRWELL WILL REMAIN. DEMOLITION BY OWNER OF FIRST FLOOR CEILING, EXISTING FIRST FLOOR DRINKING FOUNTAIN, THE ENTIRE BLDG. HVAC SYSTEM (BOTH FLOOR LEVEL), 2<sup>ND</sup> FLOOR ITEMS INCLUDING THE EXISTING INTERIOR NON-LOAD BEARING WALLS, ALL EXTERIOR WALL INTERIOR FINISHES, FLOORING FINISH TO SUBFLOOR, SUSPENDED CEILING TO UNDERSIDE OF EXISTING T&G WOOD CEILING, LIGHTING AND ALL ELECTRICAL AND PLUMBING FIXTURE EQUIPMENT WILL BE PERFORMED PRIOR TO NEW CONSTRUCTION. THE RENOVATION SCOPE OF WORK INCLUDES THE FOLLOWING:

- 1<sup>ST</sup> FLOOR:**
- NEW MECHANICAL, LIGHTING, AND FIRE ALARM DESIGN
  - NEW CEILING FINISHES
  - NEW ACCESSIBLE DRINKING FOUNTAIN
  - RENOVATION OF RESTROOMS
  - REPLACEMENT OF ALL EXTERIOR WINDOWS
- 2<sup>ND</sup> FLOOR:**
- NEW OFFICE LAYOUT
  - NEW MECHANICAL ELECTRICAL, LIGHTING, PLUMBING, FIRE ALARM, SECURITY, AUDIO AND VISUAL SYSTEMS
  - TWO SINGLE-STALL UNISEX RESTROOMS
  - SMALL KITCHENETTE/WORKROOM
  - REPLACEMENT OF ALL EXTERIOR WINDOWS
  - ADDITION OF NEW WINDOW OPENINGS
  - INTERIOR STOREFRONT FOR OFFICES AND MEETING ROOM
  - NEW BATT WALL INSULATION AT EXTERIOR WALLS
  - NEW SKYLIGHT OPENING
  - REPLACE EXISTING ROOF MEMBRANE AND INSULATION ABOVE EXISTING ROOF DECK
- SITE:**
- NEW EXTERIOR TRELLIS SLATS
  - NEW SIDEWALK REPAIR AND REPLACEMENT
  - NEW VRF SYSTEM, PAD AND UTILITY HOOK-UP TO SERVE BLDG. 11
  - NEW GENERATOR, PAD AND CONNECTION TO EXISTING POWER PLANT #3 AND CONNECTION TO BLDG. 11 (CONNECTION TO BLDG. CLUSTER IS FUTURE WORK).

**PROJECT DESCRIPTION**

APN: 150-480-12

PROPERTY OWNER: COLLEGE OF MARIN

PROPERTY: 333.42 ACRES (INDIAN VALLEY CAMPUS)

ZONING DESIGNATION: CF (COMMUNITY FACILITIES)

GENERAL PLAN DESIGNATION: CF (COMMUNITY FACILITIES)

OCCUPANCY GROUP: B (BUSINESS)

CONSTRUCTION TYPE: VB

FULLY SPRINKLERED: N/A

STORIES: 2 ABOVE GRADE

**PROJECT INFORMATION**



**VICINITY MAP**

GENERAL	TITLE SHEET
G0.0	PROJECT INFORMATION, GENERAL NOTES
G0.1	SYMBOLS AND LEGEND
G1.0	EGRESS ANALYSIS PLAN - FIRST FLOOR
G1.1	EGRESS ANALYSIS PLAN - SECOND FLOOR
G2.0	ACCESSIBLE PATH OF TRAVEL & EGRESS PLAN - FIRST FLOOR

CIVIL	SITE UTILITIES
C1.0	SITE ACCESSIBILITY
C2.0	

ARCHITECTURE	PROPOSED SITE PLAN
A1.1	DEMOLITION PLANS
A2.1	FIRST FLOOR PLAN
A2.2	SECOND FLOOR PLAN
A2.3	ROOF PLAN
A2.4	FINISH & SIGNAGE PLANS
A3.1	BUILDING ELEVATIONS - SOUTH
A3.2	BUILDING ELEVATIONS - EAST
A3.3	BUILDING ELEVATIONS - NORTH
A3.4	BUILDING ELEVATION - WEST
A3.11	BUILDING SECTIONS
A3.12	BUILDING SECTIONS
A5.1	INTERIOR ELEVATIONS
A5.2	INTERIOR ELEVATIONS
A6.1	REFLECTED CEILING PLAN - FIRST FLOOR
A6.2	REFLECTED CEILING PLAN - SECOND FLOOR - CEILING LEVEL
A6.3	REFLECTED CEILING PLAN - SECOND FLOOR - BEAM LEVEL
A7.1	DOOR, WINDOW AND STOREFRONT SCHEDULE
A8.1	EXTERIOR DETAILS
A8.2	EXTERIOR DETAILS - MECH. ENCLOSURES
A8.1	INTERIOR DETAILS
A8.2	INTERIOR DETAILS
A8.3	INTERIOR DETAILS
A8.4	INTERIOR DETAILS- CEILING
A8.5	INTERIOR DETAILS - ACOUSTIC
A8.10	INTERIOR DETAILS - MILLWORK
A8.11	DETAILS - INTERIOR DOORS & STOREFRONT

STRUCTURAL	STRUCTURAL PLAN NOTES AND SCHEDULES
S1.1	FRAMING PLANS
S2.1	DETAILS
S3.1	

MECHANICAL	MECHANICAL SYMBOLS, LEGENDS AND ABBREVIATIONS
M001	MECHANICAL EQUIPMENT SCHEDULES
M002	MECHANICAL EQUIPMENT SCHEDULES
M003	MECHANICAL DEMO FIRST FLOOR PLANS
M101	MECHANICAL DEMO SECOND FLOOR PLANS
M102	MECHANICAL FIRST FLOOR PLAN HVAC
M201	MECHANICAL SECOND FLOOR PLAN HVAC
M202	MECHANICAL FLOW DIAGRAMS
M501	MECHANICAL FLOW DIAGRAMS
M601	CONTROLS - MECHANICAL
M701	

ELECTRICAL	ELECTRICAL SYMBOLS, LEGENDS AND ABBREVIATIONS
E001	ELECTRICAL LUMINAIRE SCHEDULE
E002	ELECTRICAL M&E COORDINATION SCHEDULE
E003	ELECTRICAL SITE PLAN
E010	ELECTRICAL FIRST FLOOR LIGHTING PLAN
E201	ELECTRICAL SECOND FLOOR LIGHTING PLAN
E202	ELECTRICAL SECOND FLOOR TOP OF BEAM LIGHTING PLAN
E203	ELECTRICAL FIRST FLOOR POWER PLAN
E301	ELECTRICAL SECOND FLOOR POWER PLAN
E302	ELECTRICAL DETAILS
E601	ELECTRICAL SINGLE LINE DIAGRAMS
E801	ELECTRICAL PANEL SCHEDULE
E802	ELECTRICAL PANEL SCHEDULES

PLUMBING	PLUMBING SYMBOLS, LEGENDS AND ABBREVIATIONS
P001	PLUMBING EQUIPMENT SCHEDULE
P002	PLUMBING EQUIPMENT SCHEDULE
P003	PLUMBING DEMO UNDERGROUND PLAN
P101	PLUMBING DEMO FIRST FLOOR PLAN
P102	PLUMBING DEMO SECOND FLOOR PLAN
P201	PLUMBING UNDERGROUND PLAN
P202	PLUMBING FIRST FLOOR PLAN
P203	PLUMBING SECOND FLOOR PLAN
P501	PLUMBING DETAILS

TELECOM	TEL-COM PLAN COVER PAGE
T0.0	TEL-COM FIRST FLOOR PLAN
T3.01	TEL-COM SECOND FLOOR PLAN
T3.02	TEL-COM AV FUNCTIONAL DIAGRAMS & DETAILS
T4.00	TEL-COM DETAILS
T5.00	

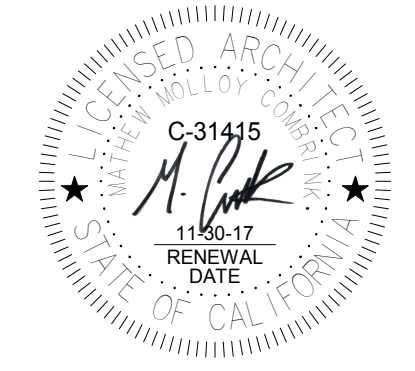
**SHEET INDEX**

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3/10/17 100% CD/BID SET

rev date issue



college of marin - indian valley campus bldg. 11 renovation

novato, california  
project number: 16-148.01

scale: as noted  
date: 03/10/2017

**CONSTRUCTION DOCUMENTS**

**PROJECT INFORMATION, GENERAL NOTES**



## GRAPHIC SYMBOLS

- GRAPHIC SYMBOLS REPRESENT OBJECTS, ELEMENTS, EQUIPMENT, INSTRUCTIONS, LOCATION, CONVENTIONS, ETC. THEY DO NOT REPRESENT THE SHAPE, SIZE, DIMENSION OF THE ACTUAL OBJECT.
- EACH DRAWING GROUP (I.E. MECHANICAL, ELECTRICAL) HAS ITS OWN SYMBOLS, ABBREVIATIONS, LEGEND AND NOTES. THE INFORMATION AND SYMBOLS ON THIS DRAWING ARE GENERAL AND APPLY TO ALL DRAWINGS.

### GENERAL SYMBOLS

	DOOR SYMBOL (LETTER DESIGNATES NUMBER OF DOOR IN ROOM) SEE A7.0-7.3 & FOR DOOR SCHEDULE
	WINDOW TYPE SEE A7.5 FOR WINDOW SCHEDULE
	STOREFRONT SEE A7.5 FOR STOREFRONT SCHEDULE
	EQUIPMENT SYMBOL
	REVISION
	MATCH LINE SHADED PORTION IS THE SIDE CONSIDERED.
	WORK POINT, CONTROL POINT OR DATUM POINT
	SECTIONS SECTION IDENTIFICATION SHEET WHERE SECTION IS DRAWN
	ELEVATIONS (UNFOLD ELEVATIONS CLOCKWISE.) DETAIL NUMBER INDICATES ELEVATION DRAWN SHEET WHERE ELEVATION IS DRAWN.
	DETAILS DETAIL NUMBER SHEET WHERE DETAIL IS DRAWN
	OFFICE ROOM IDENTIFICATION ROOM NAME ROOM NUMBER
	EQUIPMENT TAG
	DIMENSION LINES
	ALIGN FIN. FACE TO FIN. FACE
	LIMIT OF WORK
<b>PARTITIONS</b>	
	PARTITION TAG SEE A9.1 - A9.2
	NEW PARTITIONS
	NEW DOORS FLOOR FINISH TRANSITION WHERE INDICATED AT CENTER LINE OF DOOR, TYPICAL.
	NEW WINDOW REFER TO SCHEDULE IN SPECIFICATIONS SECTION 08005.
	CHASE WALL PIPE OR PLUMBING
<b>CASEWORK</b>	
	WALL HUNG CABINETS OR SHELVES
	BASE CABINET COUNTER TOP
	OWNER FURNISHED ITEMS (NOT IN CONTRACT)
	CASEWORK TAG

### EQUIPMENT

	ROBE HOOK
	CLOCK
	FIRE EXTINGUISHER CABINET
	HANDRAIL / WALL PROTECTION
	VISUAL DISPLAY BOARDS
	CORNER GUARD
	EDGE GUARD

### PLUMBING

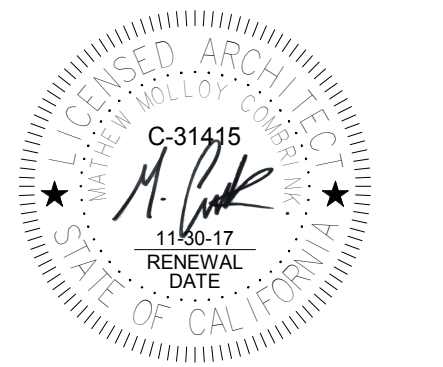
	WALL MOUNTED TOILET
	FLOOR MOUNTED TOILET
	FLOOR CLEAN OUT, (FCO) SEE PLUMBING PLANS FOR LOCATIONS (N) INDICATES NEW FCO (E) INDICATES EXISTING FCO
	FLOOR SINK PROVIDE COVER WHERE EXPOSED TO FOOT TRAFFIC
	FLOOR DRAIN

### MECHANICAL

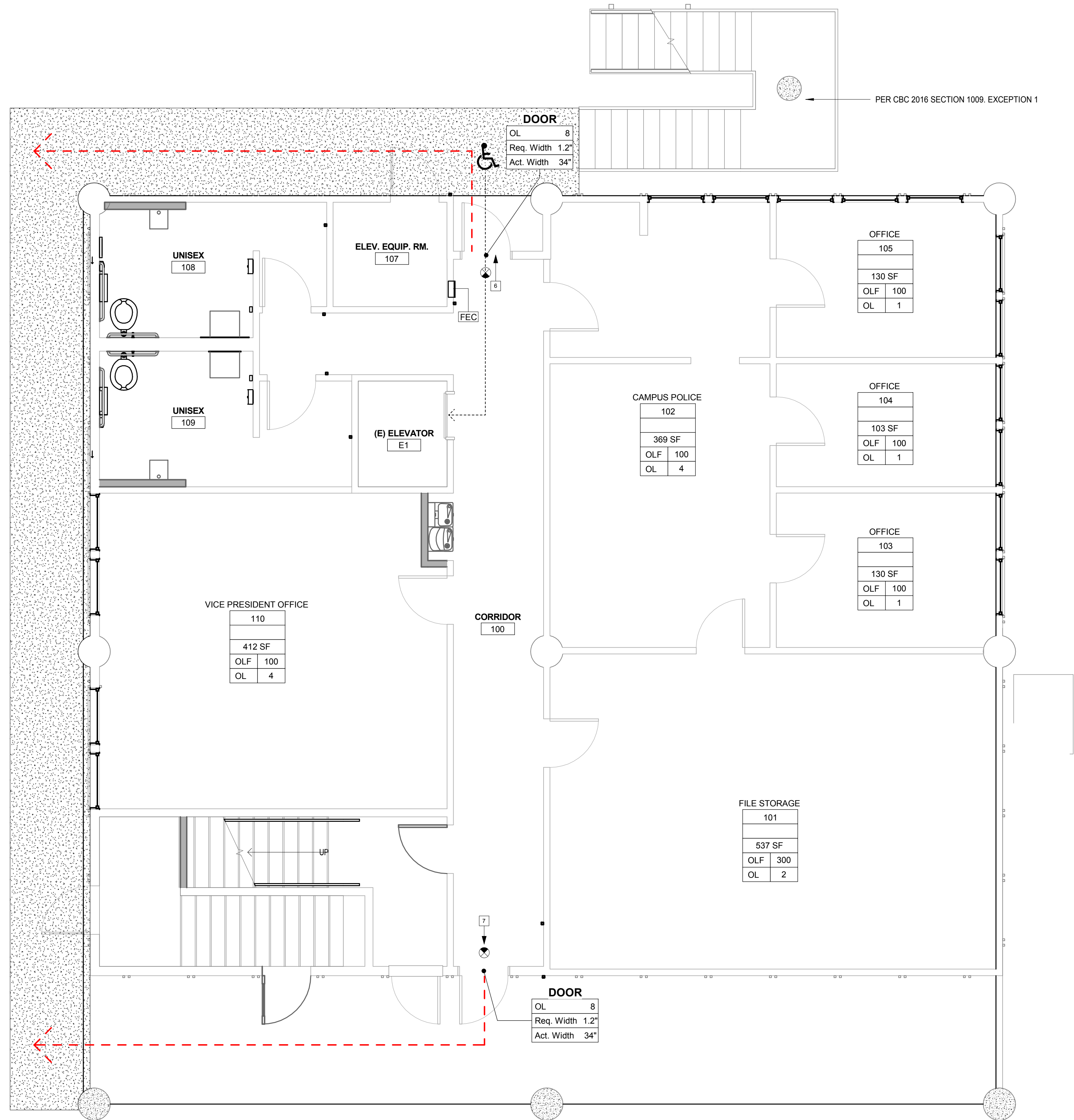
	SUPPLY DIFFUSER
	RETURN AIR GRILLE
	EXHAUST GRILLE

### ELECTRICAL

	2 X 4' LIGHT FIXTURE
	2 X 2' LIGHT FIXTURE
	RECESSED DOWNLIGHT
	STRIP LIGHTING FIXTURE
	SURFACE MOUNTED DOWNLIGHT
	RECESSED WALL WASHER
	ROUND PENDANT
	WALL MOUNTED LIGHT
	TRACK LIGHT
	EXIT SIGN
	SMOKE DETECTOR
	TELEVISION AND BRACKET
	SPEAKER

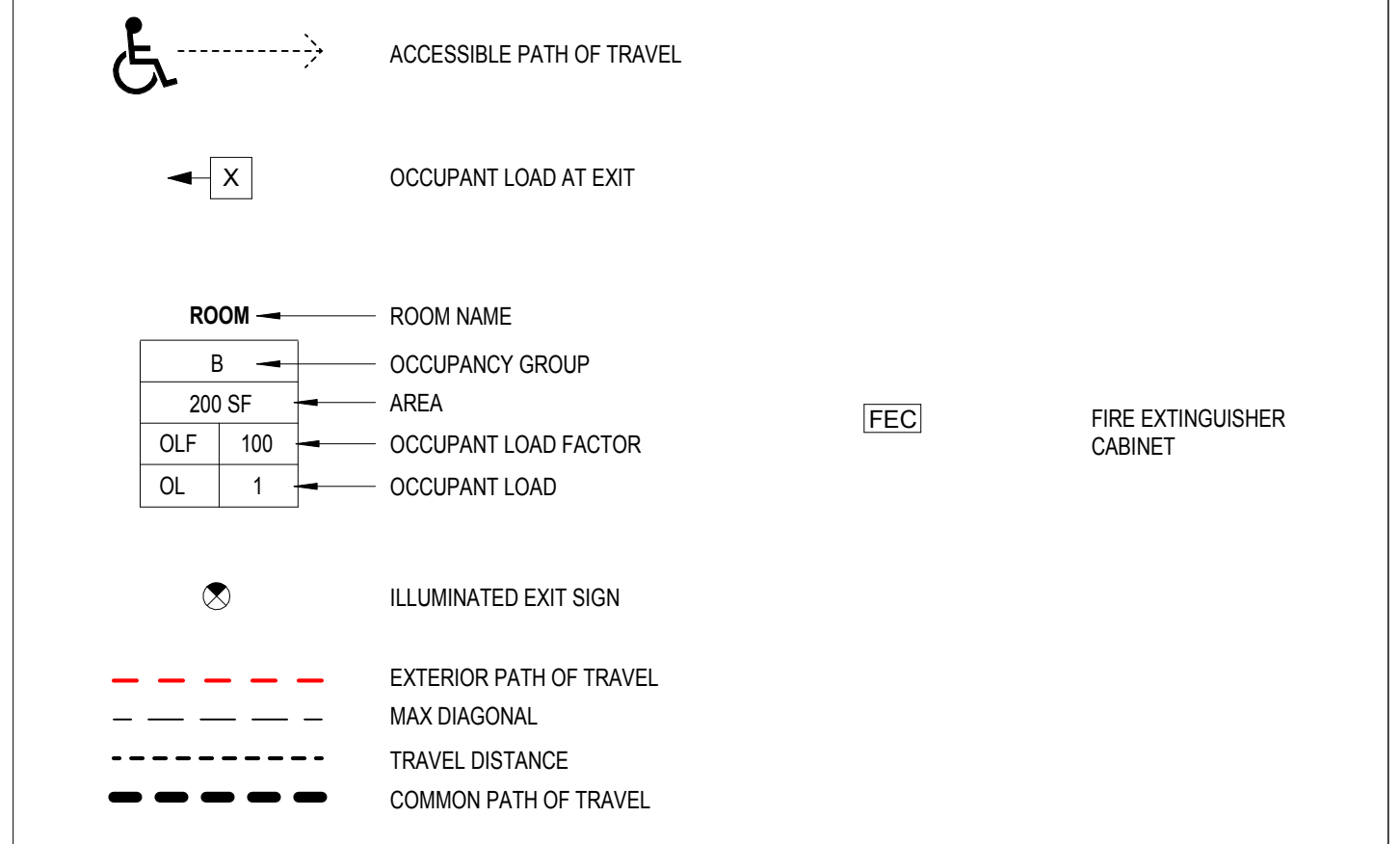


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**BUILDING INFORMATION** 1/4" = 1'-0"

OCCUPANCY GROUP: B (BUSINESS)  
 CONSTRUCTION TYPE: VB  
 SPRINKLERED: YES- DEFERRED SUBMITTAL  
 NO. OF STORIES IN BLDG: 2 ABOVE GRADE  
 MAX. TRAVEL DISTANCE: B-OCCUPANCY = 300'



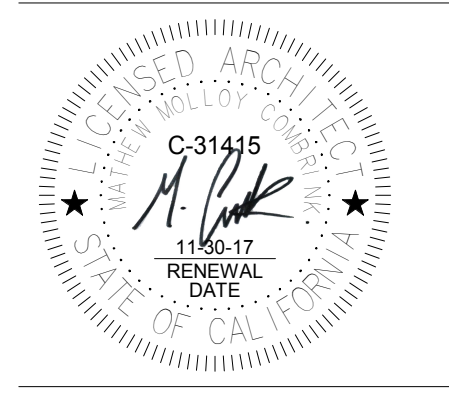
**EGRESS LEGEND** 1/4" = 1'-0"

- 7
- 6
- 5
- 4
- 3
- 2
- 1

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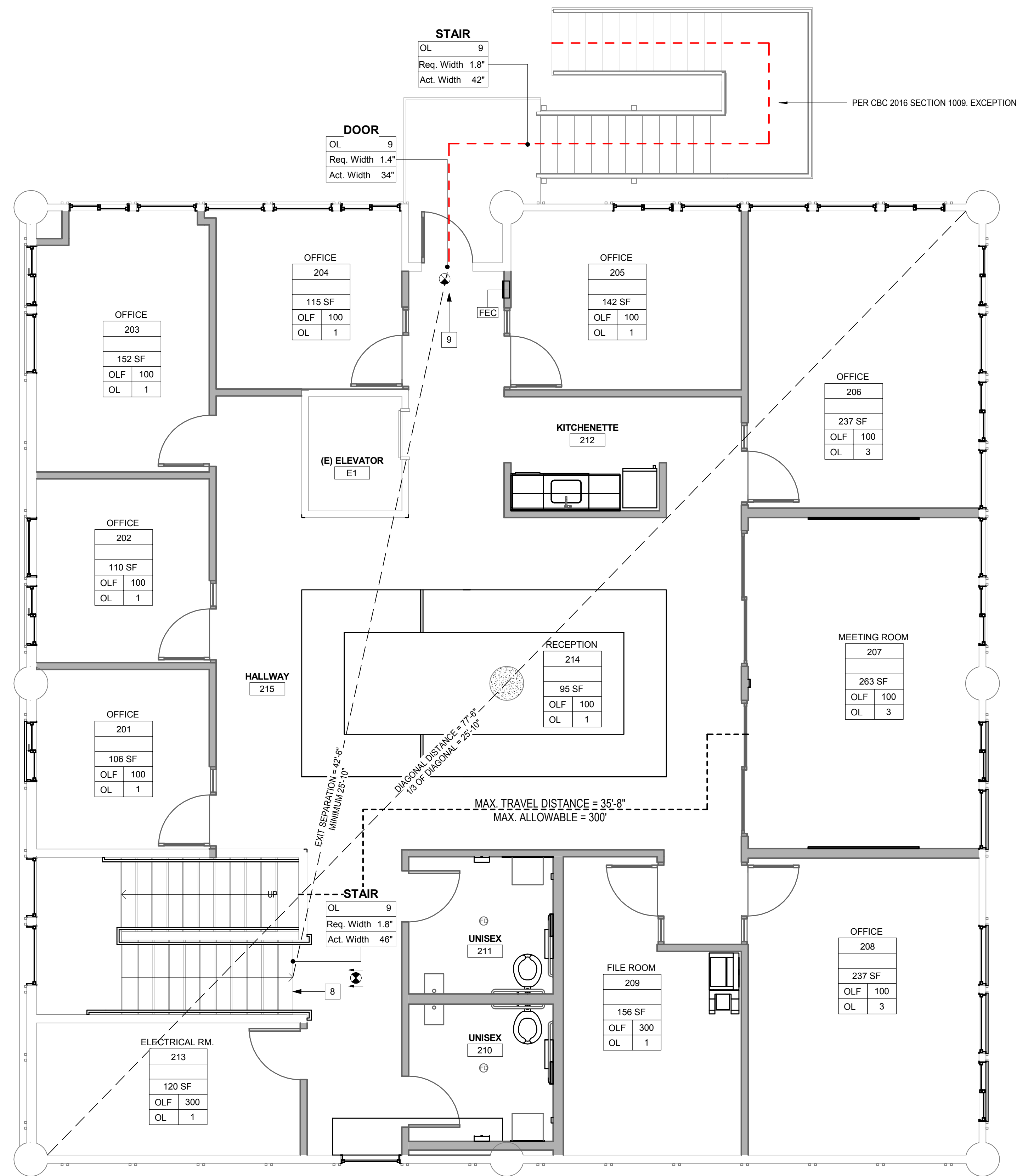
novato, california  
 project number: 16-148-01

scale: as noted  
 date: 03/10/2017

**CONSTRUCTION DOCUMENTS**  
**EGRESS ANALYSIS PLAN - FIRST FLOOR**

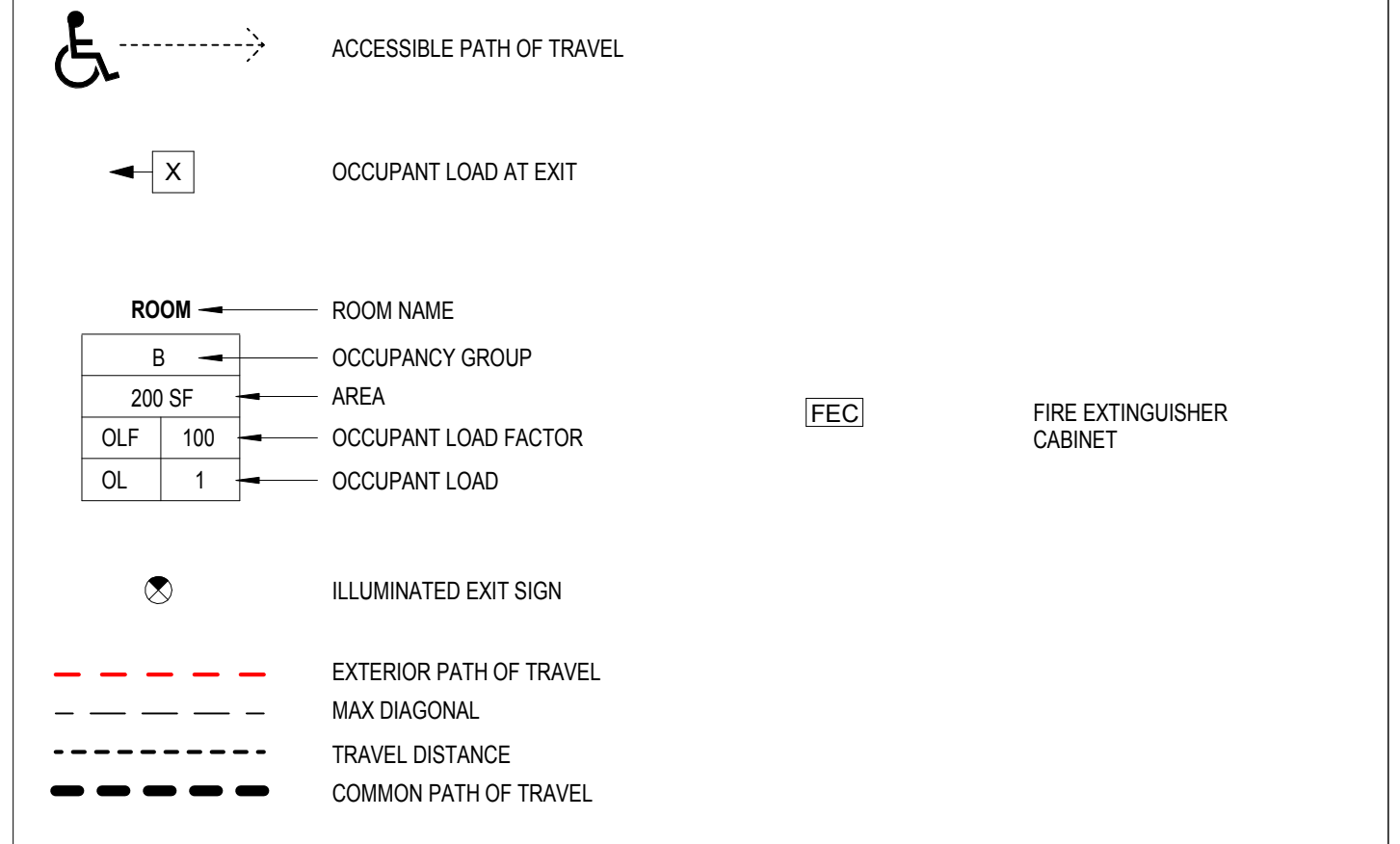


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**BUILDING INFORMATION** 1/4" = 1'-0"

OCCUPANCY GROUP: B (BUSINESS)  
 CONSTRUCTION TYPE: VB  
 SPRINKLERED: YES- DEFERRED SUBMITTAL  
 NO. OF STORIES IN BLDG: 2 ABOVE GRADE  
 MAX. TRAVEL DISTANCE: B-OCCUPANCY = 300'



**EGRESS LEGEND** 1/4" = 1'-0"

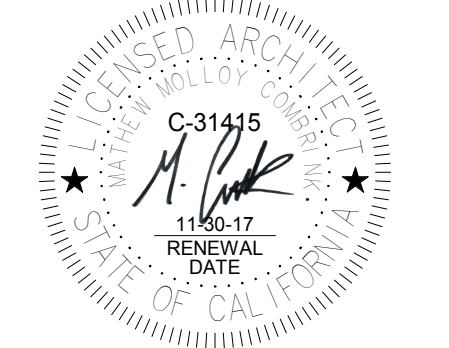
- 7
- 6
- 5
- 4
- 3
- 2
- 1

EGRESS KEYNOTES 1/4" = 1'-0"

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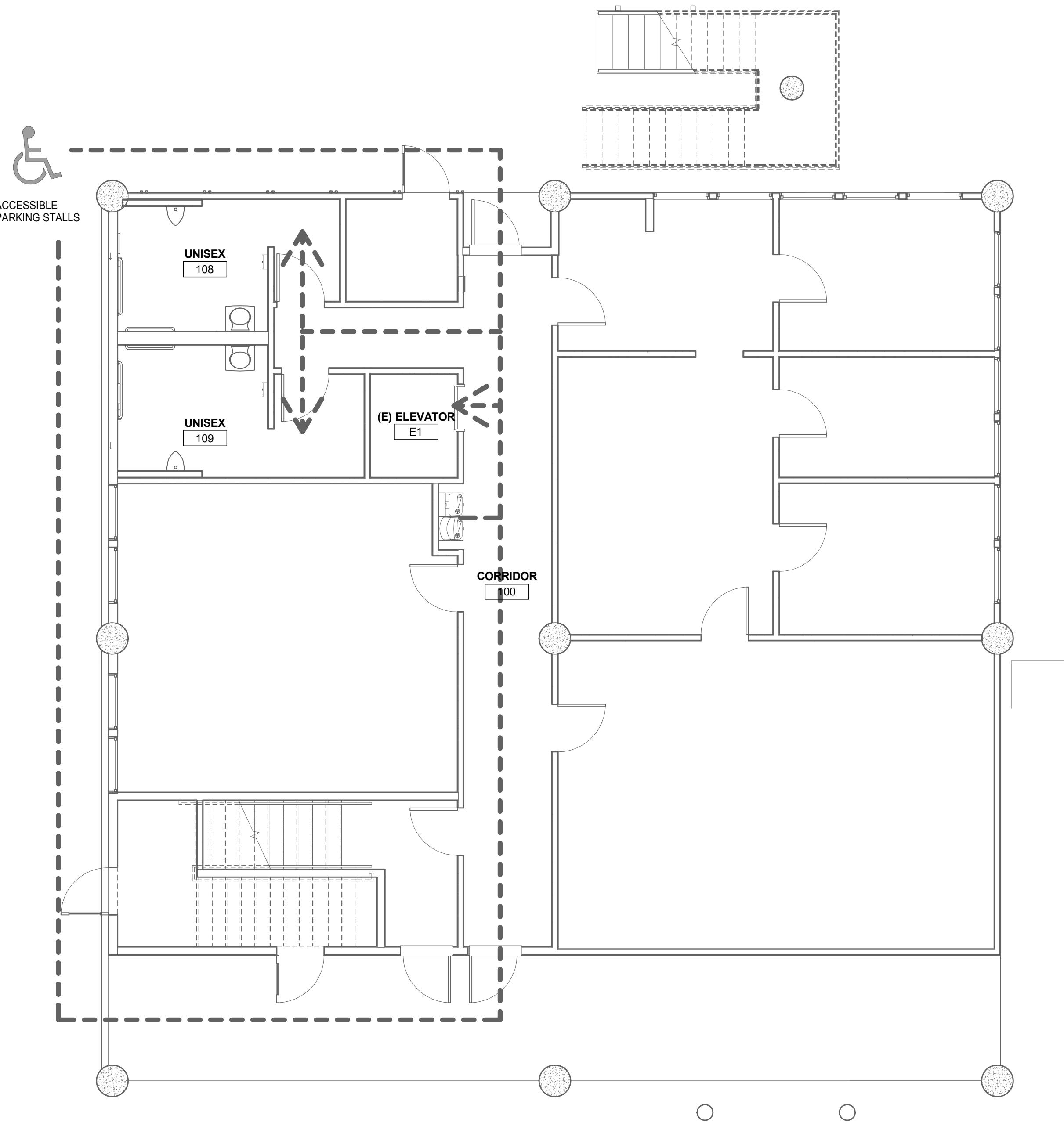
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**CONSTRUCTION DOCUMENTS**

**EGRESS ANALYSIS PLAN - SECOND FLOOR**

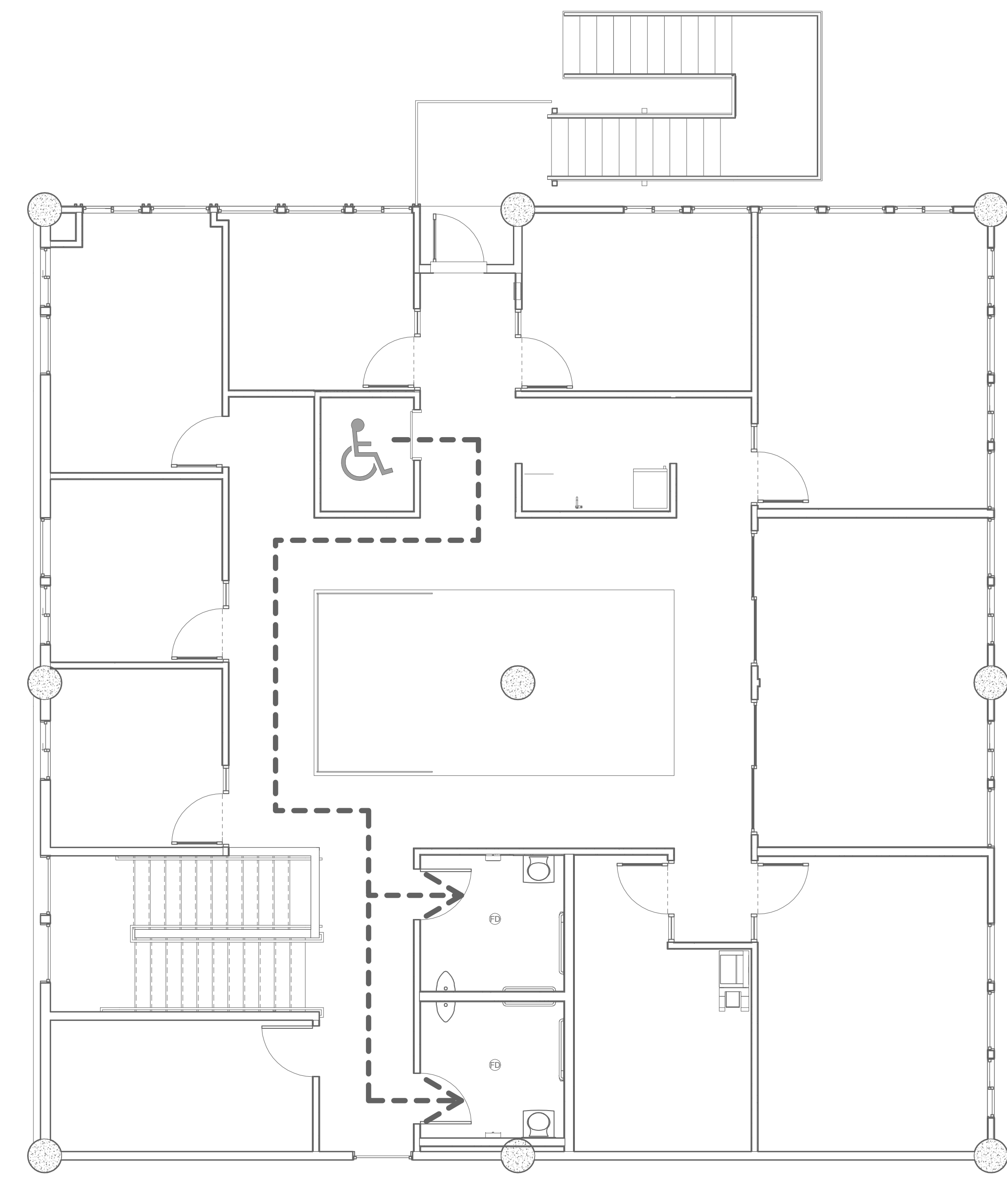


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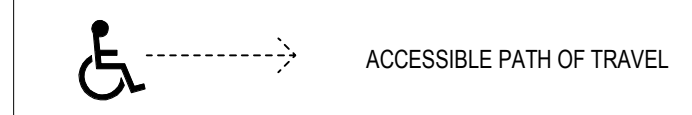
1 ACCESSIBLE PATH OF TRAVEL PLAN - FIRST FLOOR

3/16" = 1'-0"



2 ACCESSIBLE PATH OF TRAVEL PLAN - LEVEL 2

3/16" = 1'-0"



ACCESSIBILITY LEGEND

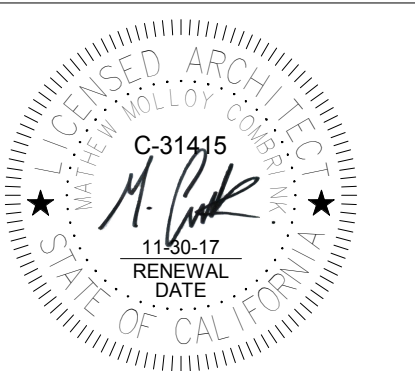
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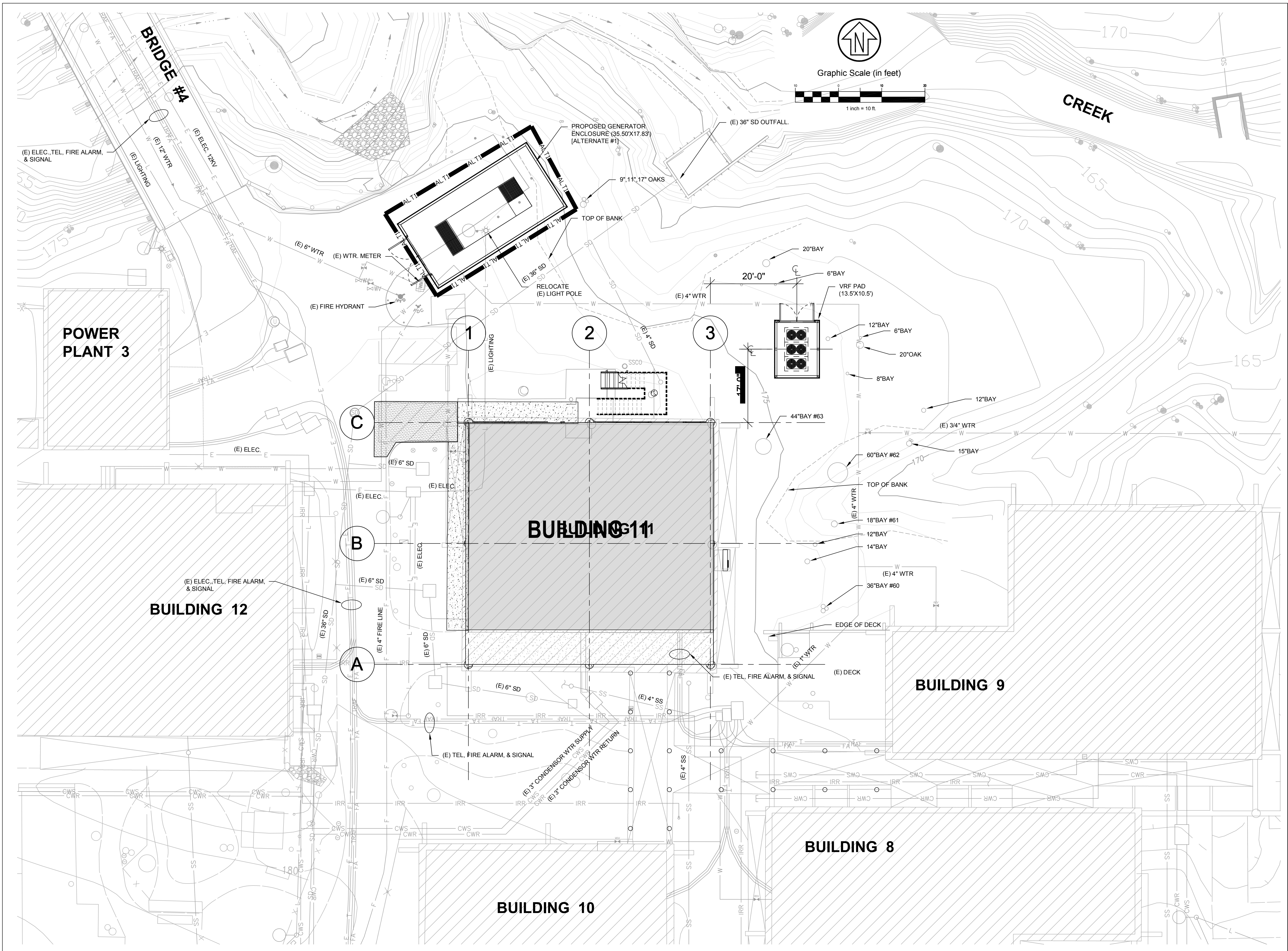
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CONSTRUCTION DOCUMENTS  
ACCESSIBLE PATH OF TRAVEL & EGRESS PLAN - FIRST FLOOR

G2.0



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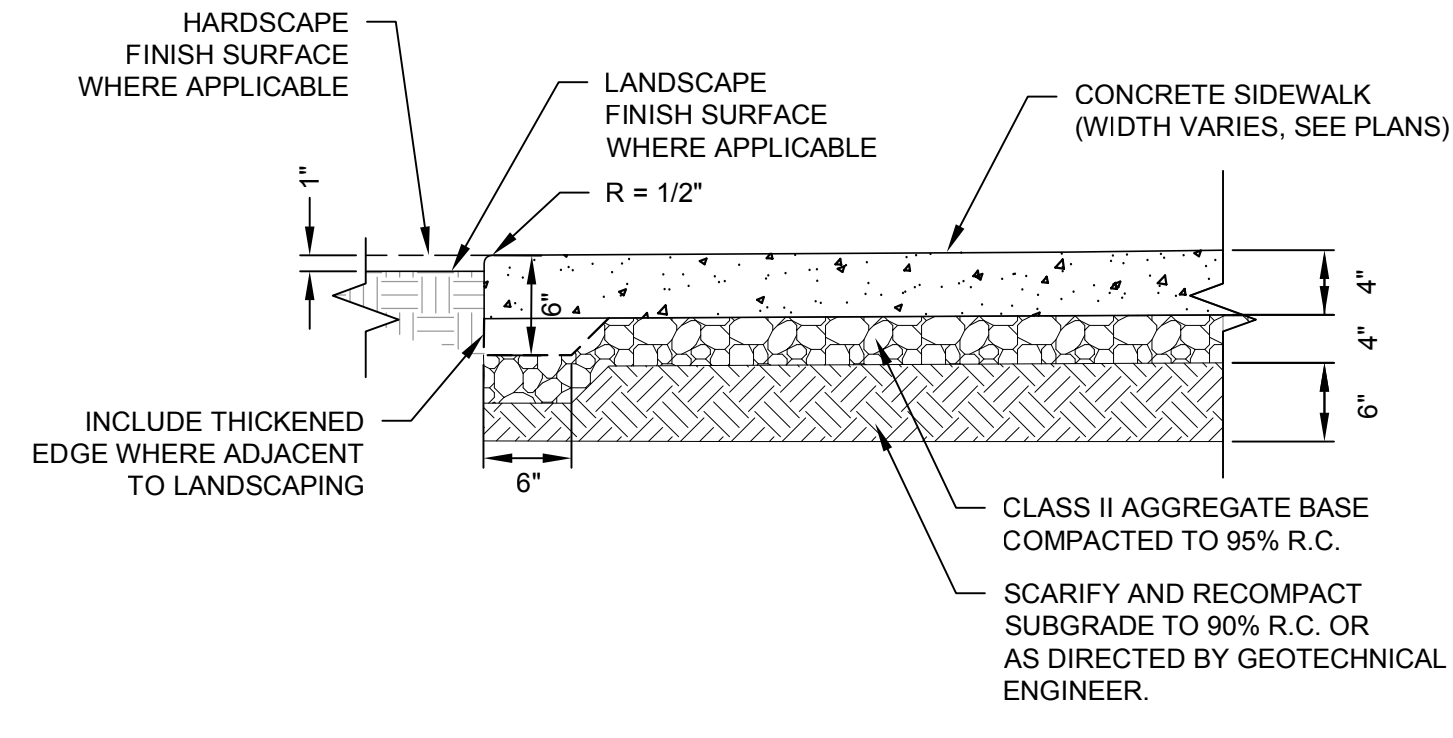
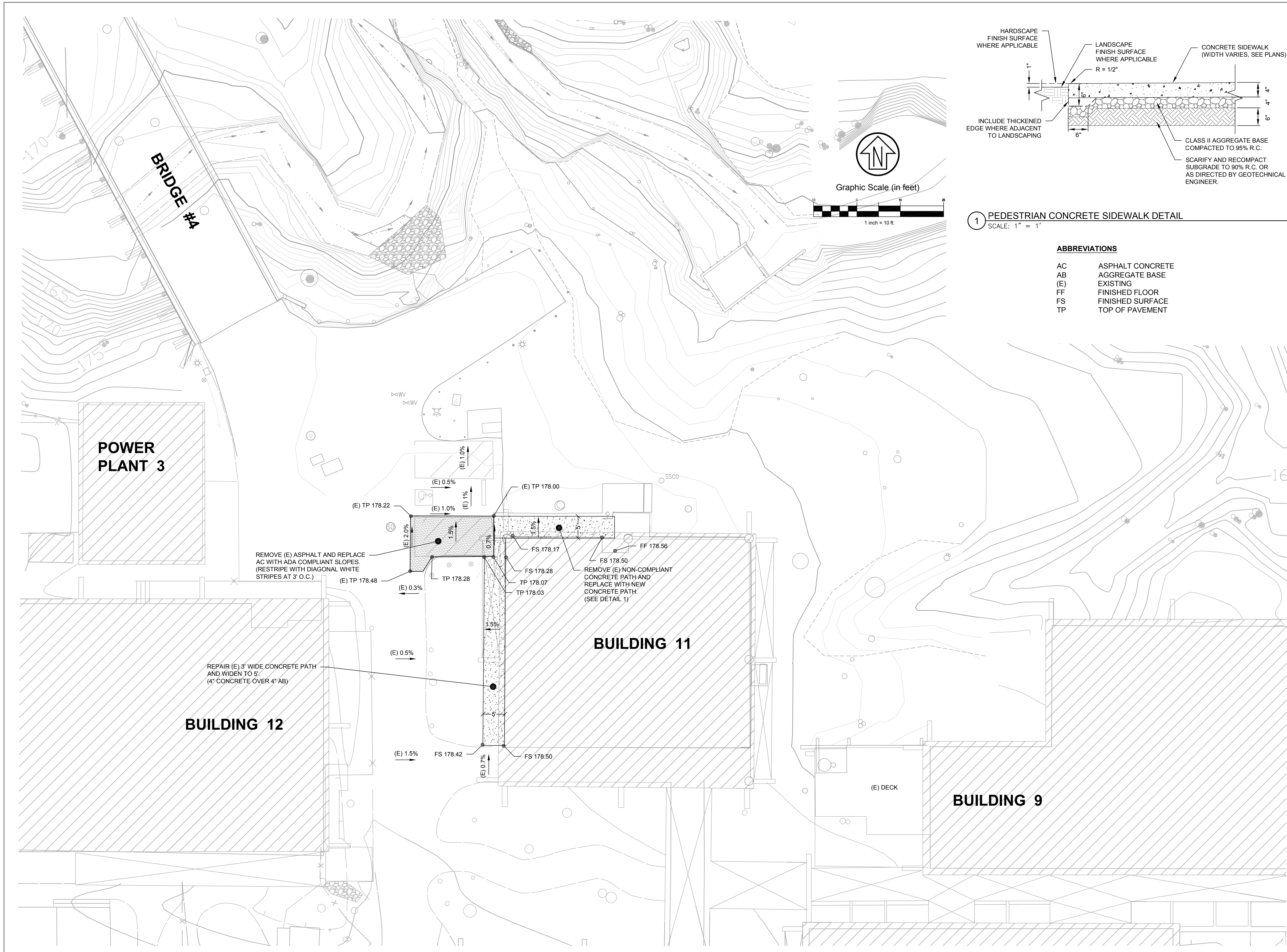
CONSTRUCTION  
DOCUMENTS

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1 PEDESTRIAN CONCRETE SIDEWALK DETAIL  
SCALE: 1" = 1'

**ABBREVIATIONS**

AC	ASPHALT CONCRETE
AB	AGGREGATE BASE
(E)	EXISTING
FF	FINISHED FLOOR
FS	FINISHED SURFACE
TP	TOP OF PAVEMENT

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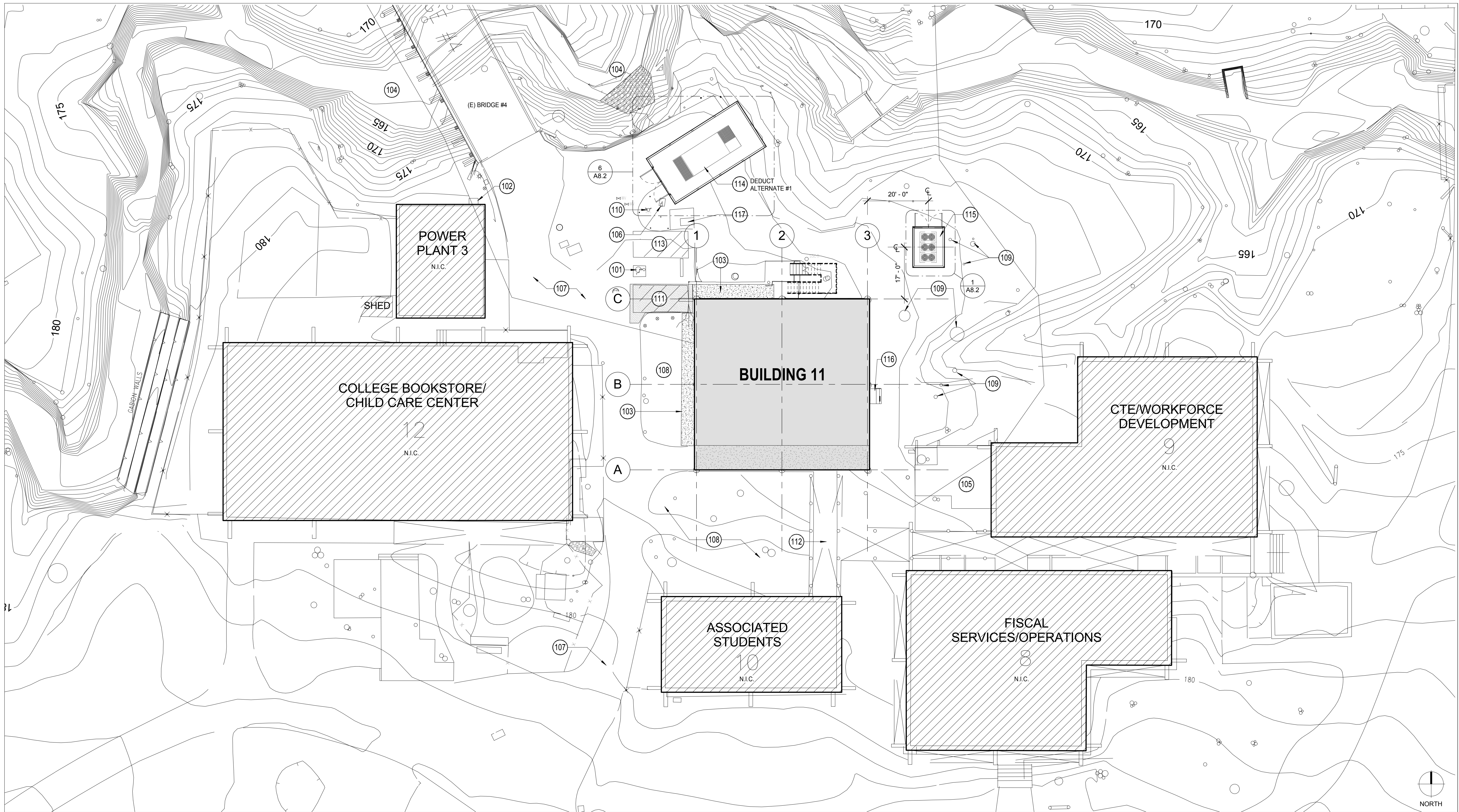
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DOCUMENTS**  
**SITE ACCESSIBILITY  
IMPROVEMENTS**

**C2.0**

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1 SITE PLAN

1/16" = 1'-0"

- |   |   |
|---|---|
| (101) (E) ACCESSIBLE PARKING STALL                | (112) (E) COVERED WALKWAY   |
| (102) ELECTRICAL EQUIP. S.E.D.                    | (113) REPAIR (E) WALK AISLE, S.C.D.   |
| (103) REMOVE & REPAIR (E) CONC. WALKWAY, S.C.D.   | (114) BACKUP GENERATOR ON CONCRETE PAD WITH SCREENED ENCLOSURE & GATE, S.M.D., S.C.D., S.S.D. |
| (104) (E) CREEK, S.C.D.                           | (115) NEW MECH. UNITS ON CONC. PAD W/ SCREENED ENCLOSURE + GATE, S.M.D., S.C.D., S.S.D.       |
| (105) (E) WD. DECK, S.C.D.                        | (116) (E) MECH. UNIT  |
| (106) (E) WATER METER, S.C.D.                     | (117) (E) MAILBOXES, S.C.D.   |
| (107) (E) ASPHALT DRIVE AISLE AND WALKWAY, S.C.D. |   |
| (108) (E) LANDSCAPE AREA, S.C.D.                  |   |
| (109) (E) TREE, S.C.D.                            |   |
| (110) (E) FIRE HYDRANT                            |   |
| (111) (E) ACCESSIBLE WALK AISLE                   |   |

SITE PLAN KEYNOTES

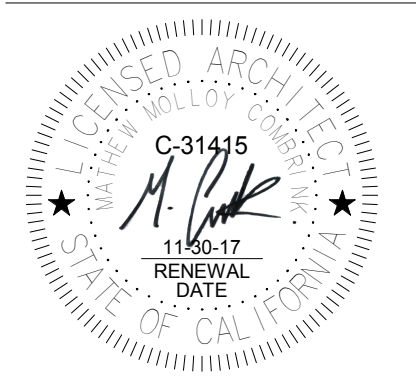
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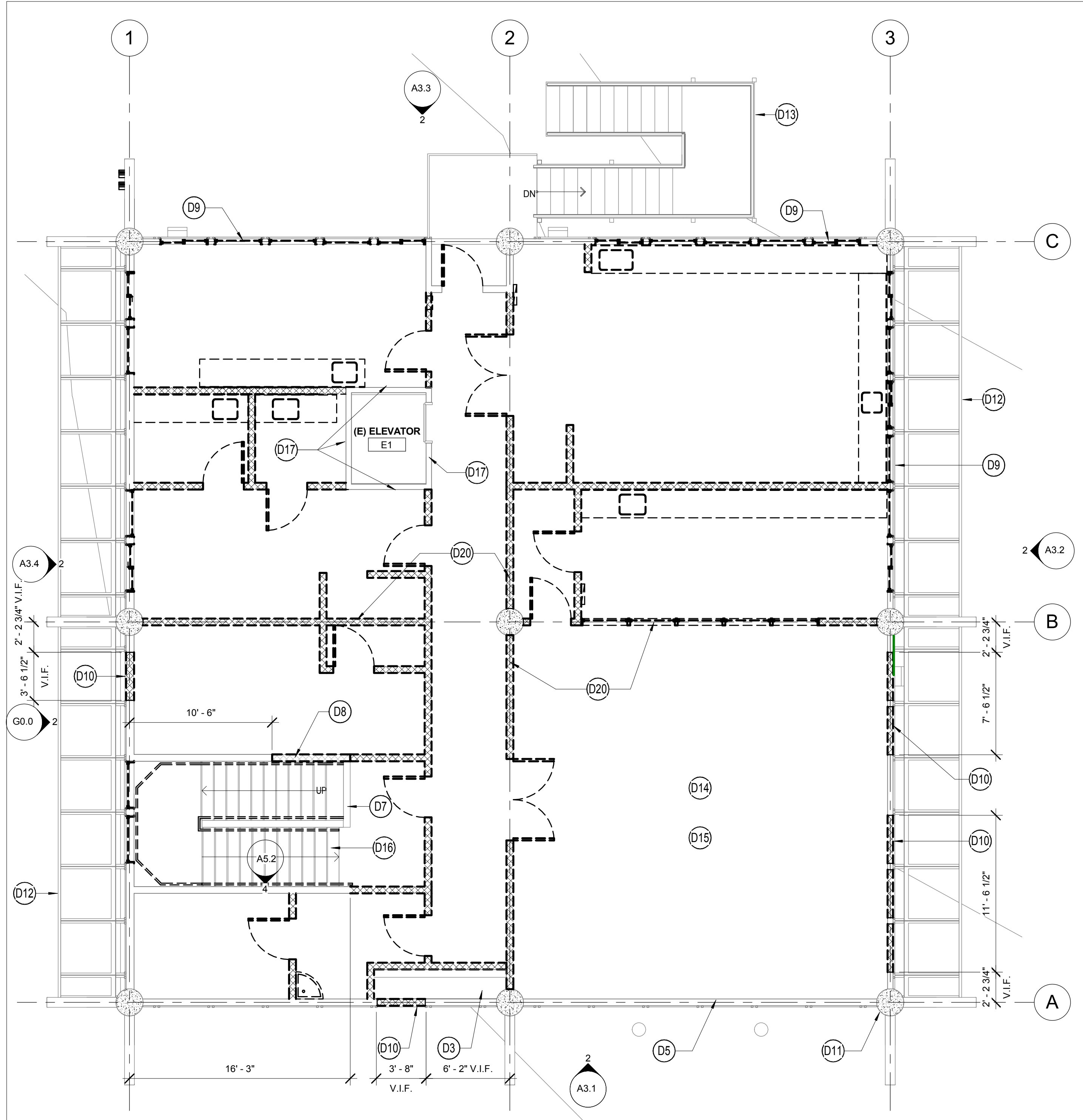
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CONSTRUCTION DOCUMENTS  
PROPOSED SITE PLAN

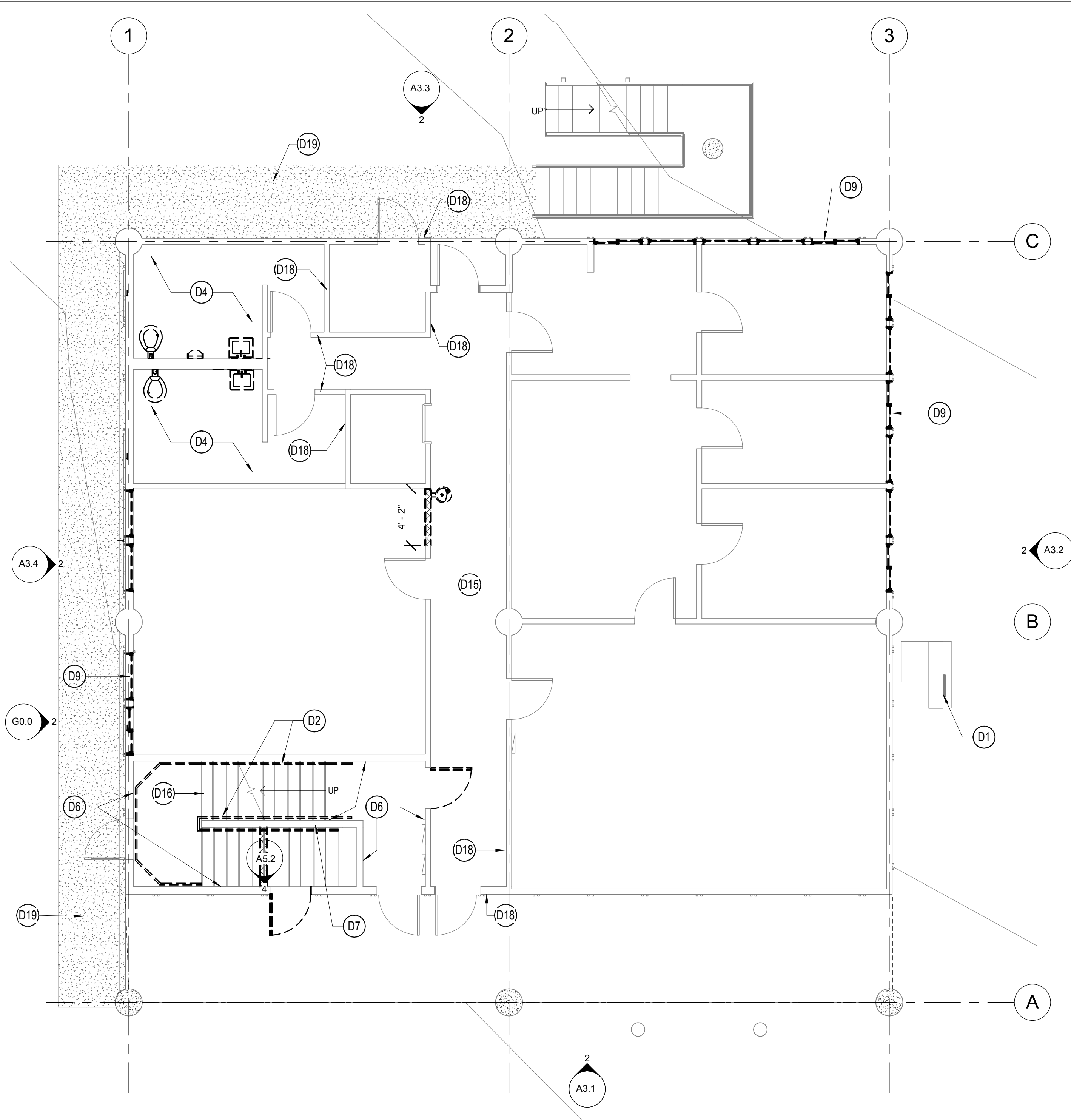


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**2** DEMOLITION PLAN - SECOND LEVEL 3/16" = 1'-0"

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. ALL DEMOLITION WORK BY OTHERS U.O.N. IN DEMOLITION KEYNOTES. NOT EVERY ITEM OF (E) WORK TO BE DEMOLISHED IS INDICATED ON THE DRAWINGS. DEMOLITION WORK INCLUDES THE REMOVAL OF (E) CONSTRUCTION TO THE EXTENT REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION WHETHER PARTICULARLY INDICATED OR NOT. VISIT THE PROJECT SITE AND REVIEW DRAWINGS SHOWING NEW CONSTRUCTION TO DETERMINE THE EXTENT OF DEMOLITION WORK REQUIRED BEFORE PRICING.</li> <li>2. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCHITECT &amp; OWNER.</li> <li>3. CONDUCT A PRE-DEMOLITION MEETING AT THE PROJECT SITE BEFORE COMMENCING WITH DEMOLITION WORK. INSPECT AND DISCUSS CONDITION OF CONSTRUCTION TO BE SELECTIVELY DEMOLISHED. REVIEW DEMOLITION DOCUMENTS AND REPORT UNRESOLVED ISSUES OR CONFLICTS TO THE ARCHITECT.</li> <li>4. PROTECT WALLS, CEILINGS, FLOORS AND OTHER EXISTING FINISH WORK TO REMAIN. COVER AND PROTECT FURNITURE, FURNISHINGS AND EQUIPMENT NOT TO BE REMOVED.</li> <li>5. DO NOT CLOSE OR OBSTRUCT WALKWAYS, CORRIDORS, OR OTHER OCCUPIED OR USED FACILITIES WITHOUT WRITTEN PERMISSION FROM AUTHORITIES HAVING JURISDICTION. MAINTAIN FIRE-PROTECTION, LIFE SAFETY, AND BUILDING SECURITY SYSTEM IN SERVICE DURING DEMOLITION OPERATIONS.</li> <li>6. MAINTAIN (E) UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE. DO NOT REMOVE UTILITY LINES SERVING OTHER PARTS OF THE BUILDING UNTIL NEW REPLACEMENT LINES ARE INSTALLED. REMOVE &amp; CAP UTILITIES CONCEALED BY NEW FINISHED SURFACES WHERE FIXTURES ARE DEMOLISHED.</li> <li>7. REPAIR DAMAGE CAUSED BY SELECTIVE DEMOLITION TO ADJACENT CONSTRUCTION AND (E) COLUMNS AND RESTORE SURFACES INTENDED TO REMAIN. U.O.N. USE REPAIR MATERIALS IDENTICAL TO (E) MATERIALS. PATCH WITH DURABLE SEAMS THAT ARE AS INVISIBLE AS POSSIBLE. WHERE PATCHING OCCURS IN A PAINTED SURFACE, APPLY PRIMER &amp; INTERMEDIATE PAINT COATS OVER PATCH AND APPLY FINAL PAINT COAT OVER ENTIRE UNBROKEN SURFACE CONTAINING PATCH. PROVIDE ADDITIONAL COATS UNTIL PATCH BLENDS WITH ADJACENT SURFACES.</li> </ol> | <ol style="list-style-type: none"> <li>8. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE. STORAGE OR SALE OF REMOVED ITEMS ON-SITE IS NOT PERMITTED. DO NOT SOIL ADJACENT SURFACES OR OTHER BUILDING AREAS. LEGALLY DISPOSE OF REMOVED MATERIALS.</li> <li>9. (E) POWER AND SIGNAL OUTLETS, T-STATS, ALARMS, SPEAKERS, NOT AFFECTED BY CONSTRUCTION TO REMAIN. U.O.N. COMPLY WITH EPA REGULATIONS AND APPLICABLE DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION.</li> <li>11. PROMPTLY PATCH AND REPAIR HOLES AND DAMAGED SURFACES OF BUILDING CAUSED BY DEMOLITION OUTSIDE OF THE DEMISE TENANT'S AREA. RESTORE EXPOSED FINISHES OF PATCHED AREAS AND EXTEND FINISH RESTORATION INTO REMAINING ADJOINING CONSTRUCTION.</li> <li>12. MAINTAIN BUILDING SECURITY, FIRE ALARM, AND FIRE PROTECTION SYSTEM OPERATIONAL AT ALL TIMES.</li> <li>13. PROVIDE AND MAINTAIN SHORING, BRACING OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND SETTLEMENT, OR COLLAPSE OF CONSTRUCTION TO REMAIN, AND TO PREVENT UNEXPECTED OR UNCONTROLLED MOVEMENT OR COLLAPSE OF CONSTRUCTION BEING DEMOLISHED. STRENGTHEN OR ADD NEW SUPPORTS WHEN REQUIRED DURING PROGRESS OF DEMOLITION.</li> <li>14. SEE REFLECTED CEILING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.</li> </ol> |
|---|--|



**1** DEMOLITION PLAN - FIRST FLOOR 3/16" = 1'-0"

- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>(D1) (E) PAD &amp; CONDENSER UNIT, S.M.D.</li> <li>(D2) DEMOLISH (E) HANDRAIL, REMOVE (E) HANDRAIL BRACKET WHERE NEW HANDRAIL DOES NOT OCCUR (BY OTHERS)</li> <li>(D3) DEMOLISH (E) DUCT WORK IN SHAFT (BY OTHERS)</li> <li>(D4) REMOVE (E) WALL AND FLOOR FINISHES (BY OTHERS). PREP SURFACE FOR INSTALLATION OF NEW FINISHES</li> <li>(D5) REMOVE INTERIOR GYP. BD. FACING ON ALL SECOND FLOOR EXTERIOR WALLS, TYP. (BY OTHERS)</li> <li>(D6) REMOVE (E) GYP. BD. FACING (BY OTHERS)</li> <li>(D7) (E) WOOD BALUSTER CAP TO REMAIN</li> <li>(D8) DEMOLISH (E) WALL TO 41" A.F.F. (BY OTHERS)</li> <li>(D9) REMOVE ALL (E) WINDOW, TYP.</li> <li>(D10) DEMOLISH OPENING FOR NEW WINDOW</li> <li>(D11) (E) CONC. COLUMN, TYP.</li> </ul> | <ul style="list-style-type: none"> <li>(D12) (E) EXTERIOR MTL. TRELLIS FRAME</li> <li>(D13) (E) WD. STAIR</li> <li>(D14) REMOVE (E) FLOORING FINISH DOWN TO SUBSTRATE AT SECOND FLOOR, TYP. (BY OTHERS). 1ST &amp; 2ND FLOOR, REMOVE (E) CEILING FINISH (BY OTHERS)</li> <li>(D15) REMOVE (E) FLOOR FINISH @ STAIR (BY OTHERS)</li> <li>(D16) REMOVE (E) WALL FINISH COVERING @ ELEVATOR (BY OTHERS). PREP SURFACE FOR NEW PAINT</li> <li>(D17) DEMO AREA FOR INSTALLATION OF DOOR ACTUATOR PLATE</li> <li>(D18) REMOVE AND REPAIR (E) CONC. WALKWAY, S.C.D.</li> <li>(D20) REMOVE (E) PAINT AT (E) GLULAM BEAMS. SANDBLAST FINISH. PREPARE AREA FOR NEW CLEAR COAT SEALER. TYPICAL AT ALL EXPOSED ROOF STRUCTURE. V.I.F. FIELD FOR LOCATIONS.</li> </ul> | <p>--- EXISTING CONSTRUCTION TO BE REMOVED</p> <p>--- EXISTING PARTITION TO BE REMOVED</p> <p>— (E) WALL TO REMAIN</p> |
|---|---|--|

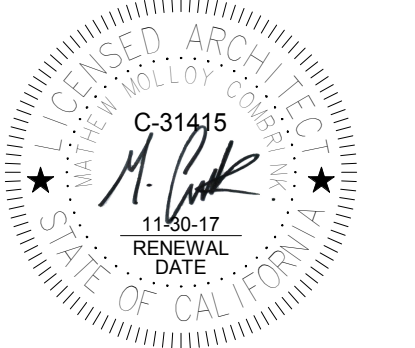
DEMOLITION NOTES DEMOLITION KEYNOTES DEMOLITION LEGEND

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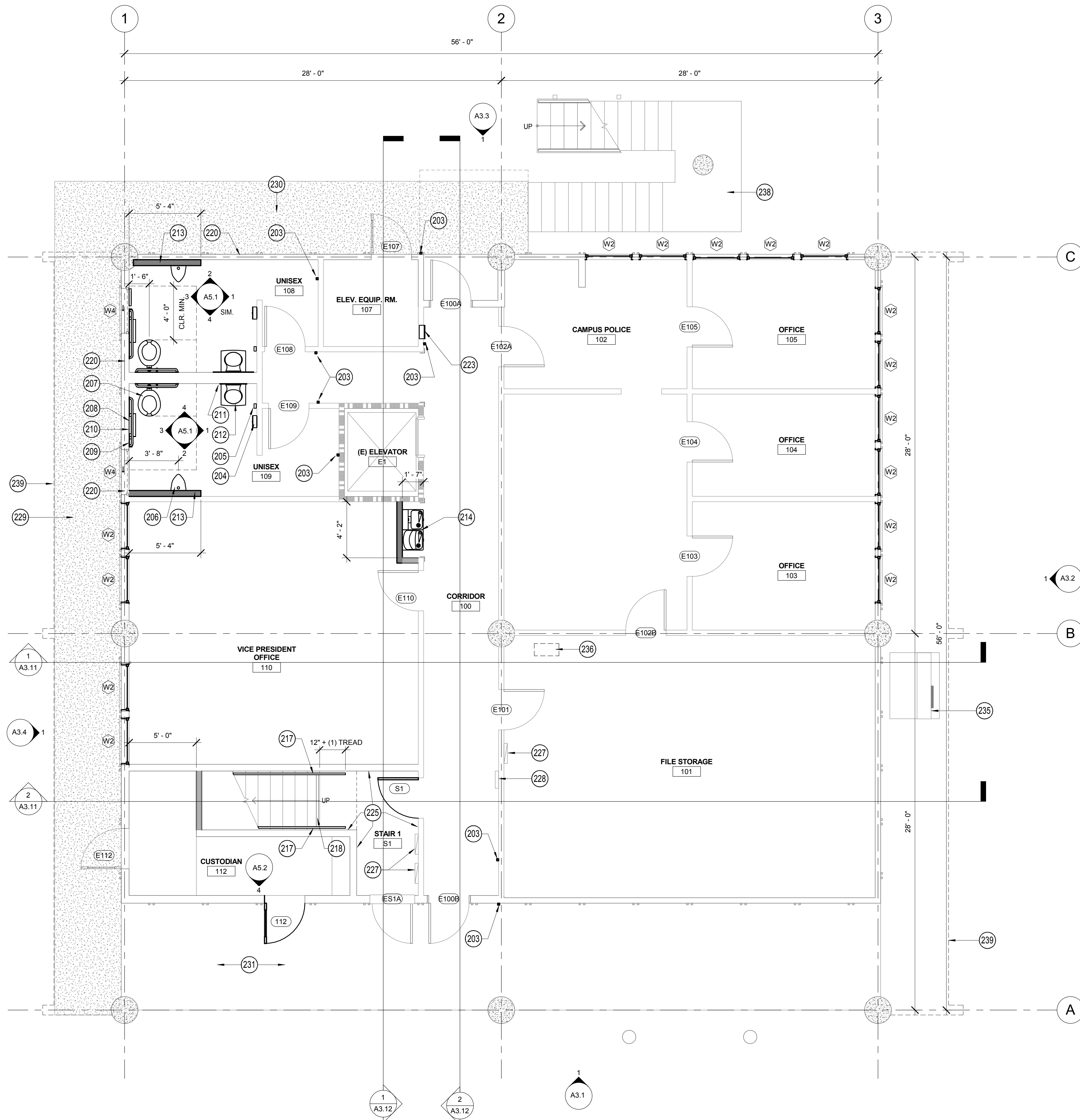
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**CONSTRUCTION DOCUMENTS**  
**DEMOLITION PLANS**



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1. CUT AND FIT COMPONENTS AS REQUIRED TO ALTER (E) WORK FOR INSTALLATION OF NEW WORK. PATCH DAMAGED AREAS TO MATCH ADJACENT MATERIALS AND FINISHES.
2. PATCH AND REPAIR (E) PARTITION, FLOOR, AND CEILING SURFACES AS REQUIRED FOR A SMOOTH FINISHED WORK.
3. PATCH AND REPAIR (E) DAMAGED FIREPROOFING WORK AS REQUIRED PRIOR TO CONCEALING.
4. NO WORK IS TO BE DONE IN AREAS MARKED "N.I.C.", "U.O.N."
5. PROVIDE A CLEAR HORIZONTAL DIMENSION OF 1'-6" MINIMUM FROM STRIKE FACE OF DOOR JAMB TO THE NEAREST RETURNING PARTITION OR OBSTACLE AT THE PULL SIDE OF THE DOOR. LOCATE THE DOOR STOP TO ALLOW FOR A MINIMUM 90 DEGREE SWING.
6. PROVIDE THE REQUIRED BACKING, BRACING, AND BLOCKING FOR ATTACHMENT OF CASEWORK, EQUIPMENT, AND OTHER WORK.
7. CONTRACTOR SHALL COORDINATE KEYING REQUIREMENTS WITH BUILDING OWNER.
8. ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED AND WEATHER-STRIPPED TO LIMIT AIR LEAKAGE. PENETRATIONS AT RATED PARTITIONS SHALL BE FIRE SAFE TO MAINTAIN RATINGS.
9. CONCEALED WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED, TYP.
10. VERIFY DIMENSIONS SHOWN WITH FIELD MEASUREMENTS. CHECK LEVELS AND LINES INDICATED PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR ADJUSTMENT OR CORRECTION. WORK SHALL PROCEED ONLY AFTER THE DISCREPANCY HAS BEEN RESOLVED.
11. WHERE CONFLICTS OCCUR, CONTRACTOR SHALL COORDINATE THE LAYOUT AND EXACT LOCATION OF PARTITIONS, DOORS, TELEPHONE, ELECTRICAL & COMMUNICATIONS OUTLETS AND SWITCHES WITH THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION.
12. REFER TO SHEET A9.0 FOR FLOOR TRANSITION DETAILS.
13. ALL TRASH CANS SHALL BE O.F.C.I.
14. ALL APPLIANCES & FURNITURE SHALL BE O.F.C.I.

**FLOOR PLAN NOTES** 1/4" = 1'-0"

- 1 HR. FIRE RATED PARTITION CONSTRUCTION
- (E) PARTITION
- NEW PARTITION AS SCHEDULED
- SURFACE MOUNTED FIRE EXTINGUISHING CABINET, PORTABLE FIRE EXTINGUISHER 2-A RATED, O.F.C.I.
- FLOOR DRAIN
- INTERIOR PARTITION TAG  
LETTER DENOTES PARTITION TYPE, NUMBER DENOTES STUD SIZE AND SHEATHING DETAILS, SEE A9.1-A9.2 FOR ADDL. DETAILS
- 3'-0"H. CORNER GUARD

**FLOOR PLAN LEGEND** 1/4" = 1'-0"

- |  |   |
|--|---|
| (201) NEW IN-FILL FLOOR FRAMING, SSD   | (221) AREA OF REFUGE: PROVIDE TWO WAY COMMUNICATION SYSTEM PER CBC 1009.8.1           |
| (202) BUILT-IN DESK  | (222) (E) FIRE PULL STATION & ALARM STROBE TO REMAIN                                  |
| (203) AUTOMATIC DOOR OPERATOR PUSH BUTTON, PATCH AREA IN-KIND  | (223) (E) SEMI-RECESSED FIRE EXTINGUISHER CABINET, O.F.C.I.                           |
| (204) PAPER TOWEL DISPENSER  | (224) INSTALL ASSISTIVE LISTENING SYSTEM, MIN. 2 RECEIVERS, PER CBC 11B-219.3, S.T.D. |
| (205) WALL MOUNTED SOAP DISPENSER, O.F.C.I.  | (225) PROVIDE NEW 5/8" GYP. BD. FACING AT WALL SURFACES AT STAIR #1                   |
| (206) WALL MOUNTED URINAL  | (226) TWO WAY COMMUNICATION DEVICE, S.T.D., S.E.D.                                    |
| (207) FLOOR MOUNTED TOILET   | (227) (E) ELECTRICAL PANEL, S.E.D.  |
| (208) TOILET PAPER DISPENSER, O.F.C.I.   | (228) (E) ANNUNCIATOR PANEL   |
| (209) SANITARY NAPKIN RECEPTACLE   | (229) REPAIR & ENLARGE SIDEWALK, S.C.D.   |
| (210) TOILET SEAT COVER DISPENSER, O.F.C.I.  | (230) (N) SIDEWALK, S.C.D.  |
| (211) MIRROR   | (231) (E) OVERHEAD WALKWAY  |
| (212) WALL MOUNTED SINK  | (232) FLOOR FINISH TRANSITION   |
| (213) 2x6 WD. STUD FURRED PLUMBING WALL  | (233) PREP (E) WALL FOR NEW PAINT   |
| (214) BOTTLE/DRINKING FOUNTAIN   | (234) WD. WALL CAP  |
| (215) PROVIDE 2X BLOCKING IN WALLS @ 4'-6" & 7'-6" A.F.F. ON ALL WALLS IN FILE ROOM (#209)                         | (235) (E) AIR CONDITIONING MECH. UNIT   |
| (216) FOLDING PARTITION WALL   | (236) (E) IDF RACK, S.T.D.  |
| (217) NEW 1-1/2"Ø WOOD HANDRAIL, CLEAR SEALED  | (237) (E) COPIER, N.I.C.  |
| (218) 2" WIDE CONTRASTING NOSING CARPET STRIP  | (238) (E) WD. STAIR   |
| (219) 1 LAYER 1/2" SOUND DAMPING GYPSUM PANEL - QUIETROCK 510, SEE 2/A9.1  | (239) (E) TRELLIS ABOVE   |
| (220) INSTALL R-15 BATT INSULATION IN ALL EXTERIOR AND INTERIOR WALL CAVITIES ON SECOND FLOOR AND ROOM 108 AND 109 | (240) FLOOR DRAIN, S.P.D.   |

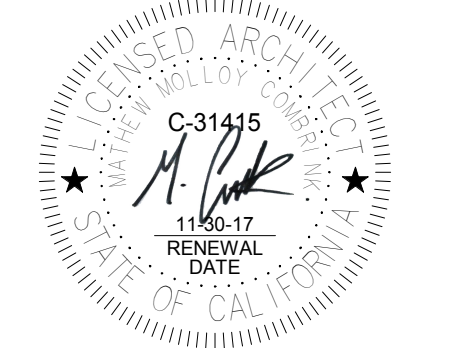
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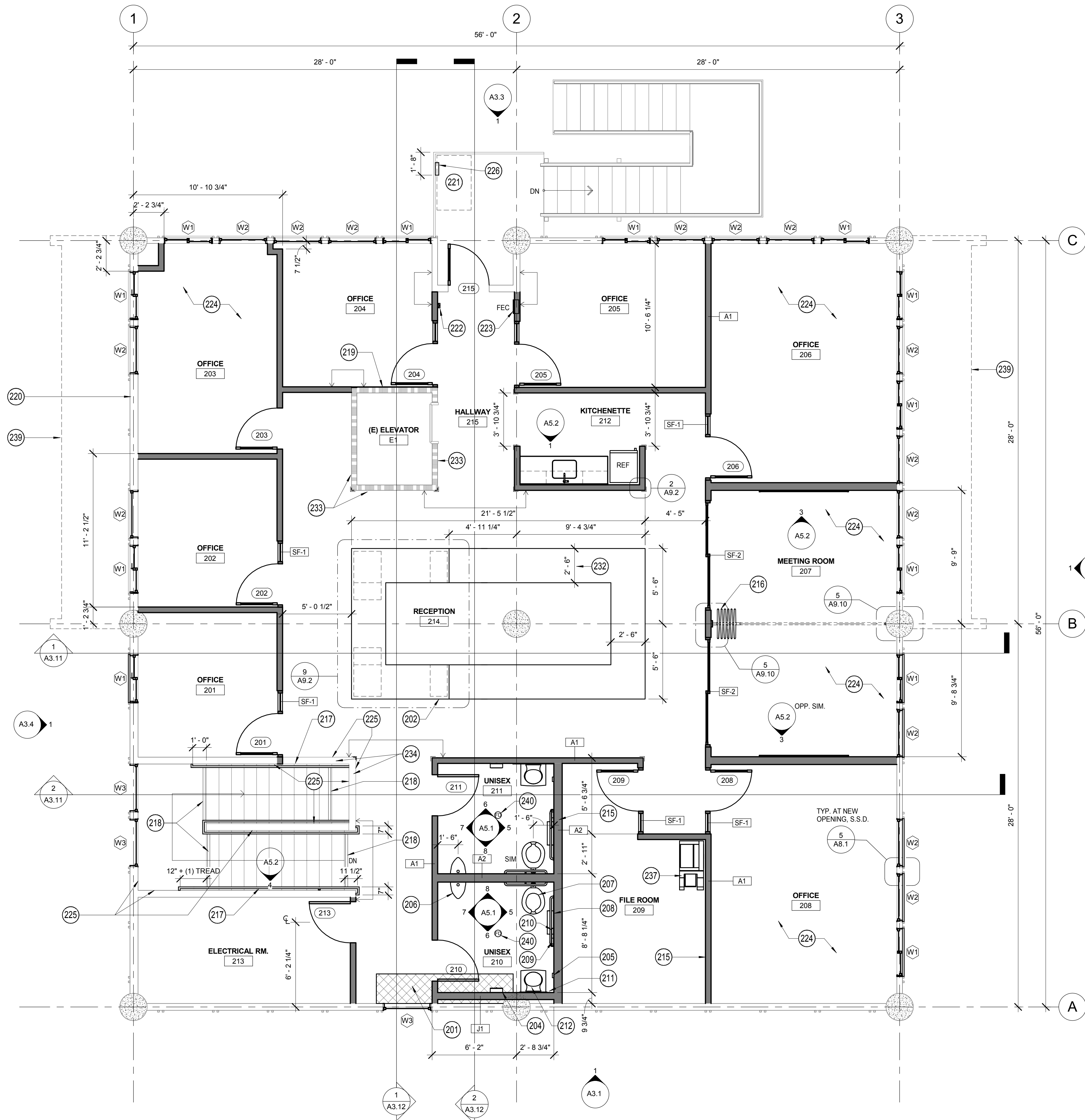
novalo, california  
project number: 16-148.01

scale: as noted  
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**CONSTRUCTION DOCUMENTS**  
**FIRST FLOOR PLAN**



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1. CUT AND FIT COMPONENTS AS REQUIRED TO ALTER (E) WORK FOR INSTALLATION OF NEW WORK. PATCH DAMAGED AREAS TO MATCH ADJACENT MATERIALS AND FINISHES.
2. PATCH AND REPAIR (E) PARTITION, FLOOR, AND CEILING SURFACES AS REQUIRED FOR A SMOOTH FINISHED WORK.
3. PATCH AND REPAIR (E) DAMAGED FIREPROOFING WORK AS REQUIRED PRIOR TO CONCEALING.
4. NO WORK IS TO BE DONE IN AREAS MARKED "N.I.C.", U.O.N.
5. PROVIDE A CLEAR HORIZONTAL DIMENSION OF 1'-6" MINIMUM FROM STRIKE FACE OF DOOR JAMB TO THE NEAREST RETURNING PARTITION OR OBSTACLE AT THE PULL SIDE OF THE DOOR. LOCATE THE DOOR STOP TO ALLOW FOR A MINIMUM 90 DEGREE SWING.
6. PROVIDE THE REQUIRED BACKING, BRACING, AND BLOCKING FOR ATTACHMENT OF CASEWORK, EQUIPMENT, AND OTHER WORK.
7. CONTRACTOR SHALL COORDINATE KEYING REQUIREMENTS WITH BUILDING OWNER.
8. ALL OPEN JOINTS, PENETRATIONS AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED AND WEATHER-STRIPPED TO LIMIT AIR LEAKAGE. PENETRATIONS AT RATED PARTITIONS SHALL BE FIRE SAFE TO MAINTAIN RATING.
9. CONCEALED WOOD BLOCKING SHALL BE FIRE RETARDANT TREATED, TYP.
10. VERIFY DIMENSIONS SHOWN WITH FIELD MEASUREMENTS. CHECK LEVELS AND LINES INDICATED PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOR ADJUSTMENT OR CORRECTION. WORK SHALL PROCEED ONLY AFTER THE DISCREPANCY HAS BEEN RESOLVED.
11. WHERE CONFLICTS OCCUR, CONTRACTOR SHALL COORDINATE THE LAYOUT AND EXACT LOCATION OF PARTITIONS, DOORS, TELEPHONE, ELECTRICAL & COMMUNICATIONS OUTLETS AND SWITCHES WITH THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION.
12. REFER TO SHEET A9.1 FOR FLOOR TRANSITION DETAILS.
13. ALL TRASH CANS SHALL BE O.F.C.I.
14. ALL APPLIANCES & FURNITURE SHALL BE O.F.C.I.

**FLOOR PLAN NOTES** 1/4" = 1'-0"

- 1 HR. FIRE RATED PARTITION CONSTRUCTION
- (E) PARTITION
- NEW PARTITION AS SCHEDULED
- SURFACE MOUNTED FIRE EXTINGUISHING CABINET, PORTABLE FIRE EXTINGUISHER 2-A RATED, O.F.C.I.
- FLOOR DRAIN
- INTERIOR PARTITION TAG  
LETTER DENOTES PARTITION TYPE, NUMBER DENOTES STUD SIZE AND SHEATHING DETAILS, SEE A9.1-A9.2 FOR ADDL. DETAILS
- 3'-0"H. CORNER GUARD

**FLOOR PLAN LEGEND** 1/4" = 1'-0"

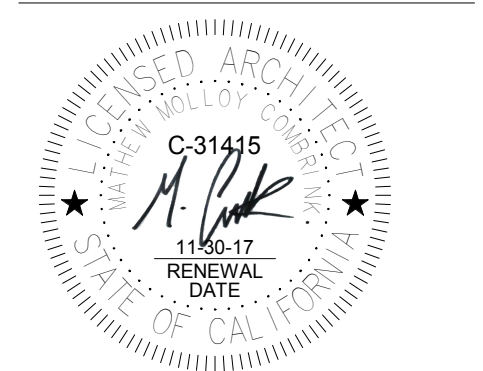
- |  |   |
|--|---|
| (201) NEW IN-FILL FLOOR FRAMING, SSD   | (221) AREA OF REFUGE: PROVIDE TWO WAY COMMUNICATION SYSTEM PER CBC 1009.8.1           |
| (202) BUILT-IN DESK  | (222) (E) FIRE PULL STATION & ALARM STROBE TO REMAIN                                  |
| (203) AUTOMATIC DOOR OPERATOR PUSH BUTTON, PATCH AREA IN-KIND  | (223) (E) SEMI-RECESSED FIRE EXTINGUISHER CABINET, O.F.C.I.                           |
| (204) PAPER TOWEL DISPENSER  | (224) INSTALL ASSISTIVE LISTENING SYSTEM, MIN. 2 RECEIVERS, PER CBC 11B-219.3, S.T.D. |
| (205) WALL MOUNTED SOAP DISPENSER, O.F.C.I.  | (225) PROVIDE NEW 58" GYP. BD. FACING AT WALL SURFACES AT STAIR #1                    |
| (206) WALL MOUNTED URINAL  | (226) TWO WAY COMMUNICATION DEVICE, S.T.D., S.E.D.                                    |
| (207) FLOOR MOUNTED TOILET   | (227) (E) ELECTRICAL PANEL, S.E.D.  |
| (208) TOILET PAPER DISPENSER, O.F.C.I.   | (228) (E) ANNUNCIATOR PANEL   |
| (209) SANITARY NAPKIN RECEPTACLE   | (229) REPAIR & ENLARGE SIDEWALK, S.C.D.   |
| (210) TOILET SEAT COVER DISPENSER, O.F.C.I.  | (230) (N) SIDEWALK, S.C.D.  |
| (211) MIRROR   | (231) (E) OVERHEAD WALKWAY  |
| (212) WALL MOUNTED SINK  | (232) FLOOR FINISH TRANSITION   |
| (213) 2X6 WD. STUD FURRED PLUMBING WALL  | (233) PREP (E) WALL FOR NEW PAINT   |
| (214) BOTTLE/DRINKING FOUNTAIN   | (234) WD. WALL CAP  |
| (215) PROVIDE 2X BLOCKING IN WALLS @ 4'-6" & 7'-6" A.F.F. ON ALL WALLS IN FILE ROOM (#209)                         | (235) (E) AIR CONDITIONG MECH. UNIT   |
| (216) FOLDING PARTITION WALL   | (236) (E) IDF RACK, S.T.D.  |
| (217) NEW 1-1/2"Ø WOOD HANDRAIL, CLEAR SEALED  | (237) (E) COPIER, N.I.C.  |
| (218) 2" WIDE CONTRASTING NOSING CARPET STRIP  | (238) (E) WD. STAIR   |
| (219) 1 LAYER 1/2" SOUND DAMPING GYPSUM PANEL - QUIETROCK 510, SEE 2/A9.1  | (239) (E) TRELLIS ABOVE   |
| (220) INSTALL R-15 BATT INSULATION IN ALL EXTERIOR AND INTERIOR WALL CAVITIES ON SECOND FLOOR AND ROOM 108 AND 109 | (240) FLOOR DRAIN, S.P.D.   |

**FLOOR PLAN KEYNOTES** 1/4" = 1'-0"

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02.14.17 issue for coordination  
 3/10/17 100% CD/BID SET



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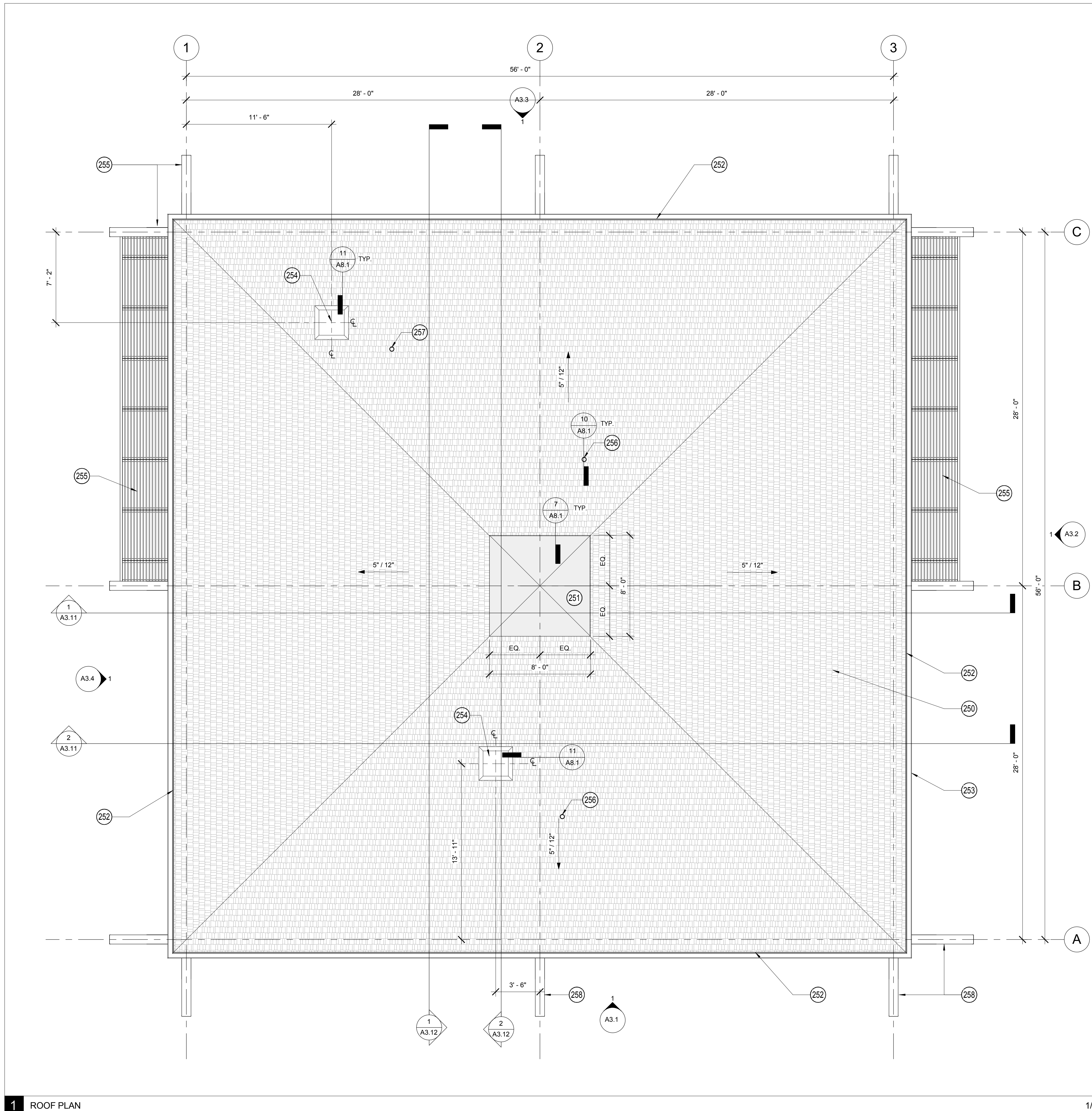
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**CONSTRUCTION DOCUMENTS**  
**SECOND FLOOR PLAN**



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12. REFER TO SHEET A8.0 FOR FLOOR TRANSITION DETAILS.
13. ALL TRASH CANS SHALL BE O.F.C.I.
14. ALL APPLIANCES & FURNITURE SHALL BE O.F.C.I.

**FLOOR PLAN NOTES** 1/4" = 1'-0"

- 1 HR. FIRE RATED PARTITION CONSTRUCTION
- NEW PARTITION AS SCHEDULED
- SURFACE MOUNTED FIRE EXTINGUISHING CABINET, PORTABLE FIRE EXTINGUISHER 2-A RATED
- FLOOR DRAIN

**ROOF PLAN LEGEND** 1/4" = 1'-0"

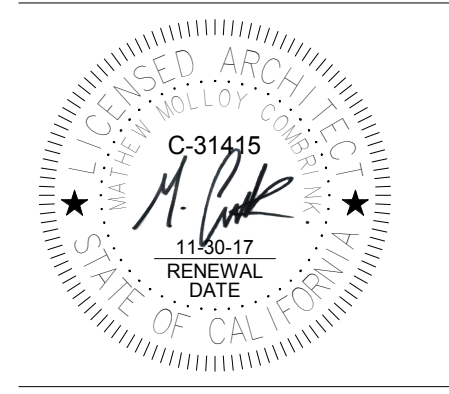
- NEW ASPHALT SHINGLE ROOFING
- NEW SKYLIGHT, O.F.C.I.
- NEW FASCIA BD. SEE 2/A8.1
- EXISTING GUTTER RELOCATED AT NEW ROOF ELEVATION. CLEAN OUT BEFORE REINSTALLATION. PROVIDE GUTTER SCREEN COVER, SEE 2/A8.1
- NEW EXHAUST VENT, S.M.D.
- NEW FIBER REINFORCED HOLLOW PLANK TRELLIS INFILL
- PLUMBING VENT, S.P.D.
- REUSE (E) ROOF PLUMBING VENT, S.M.D.
- (E) GLULAM BEAM, TYP.

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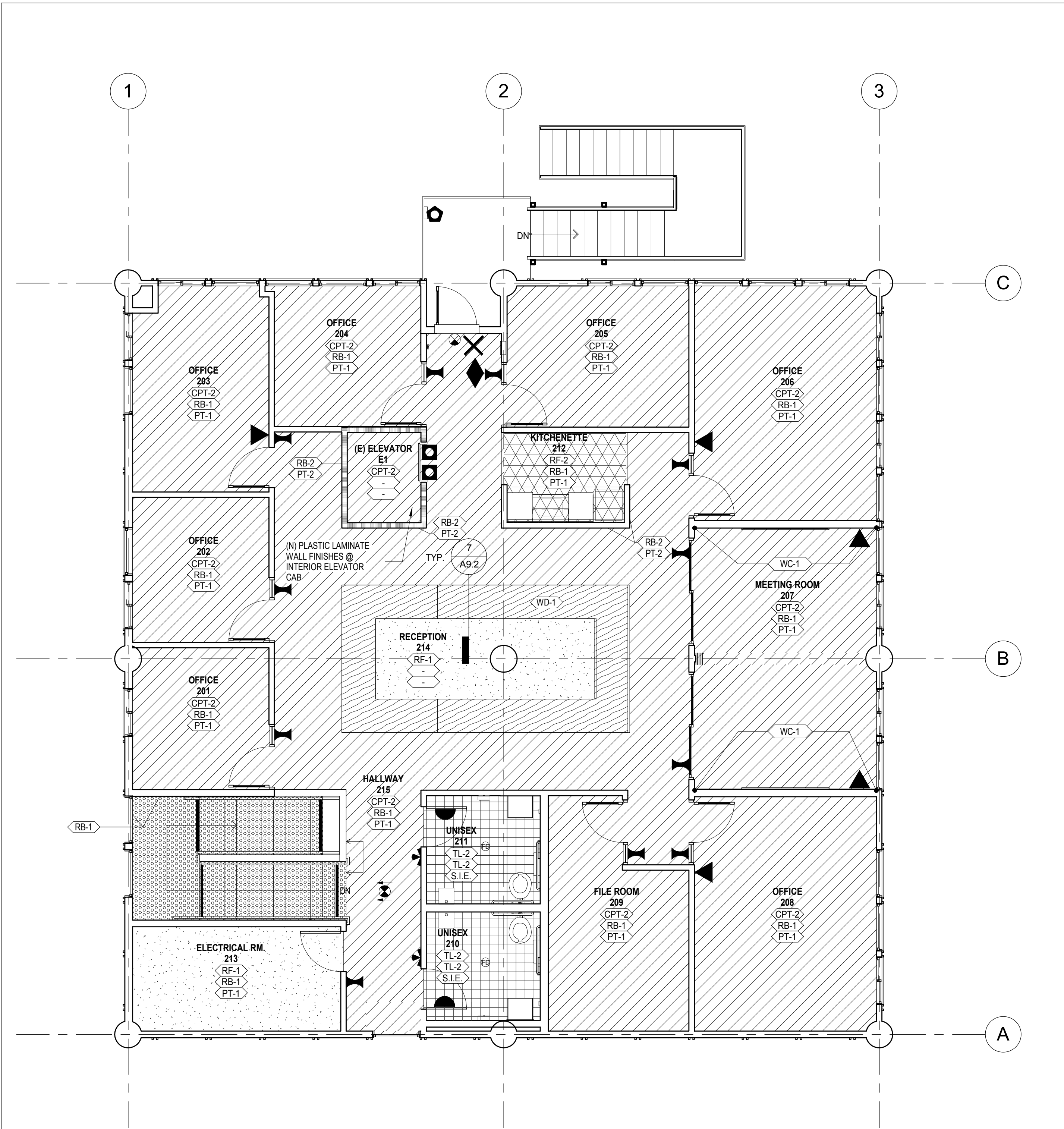
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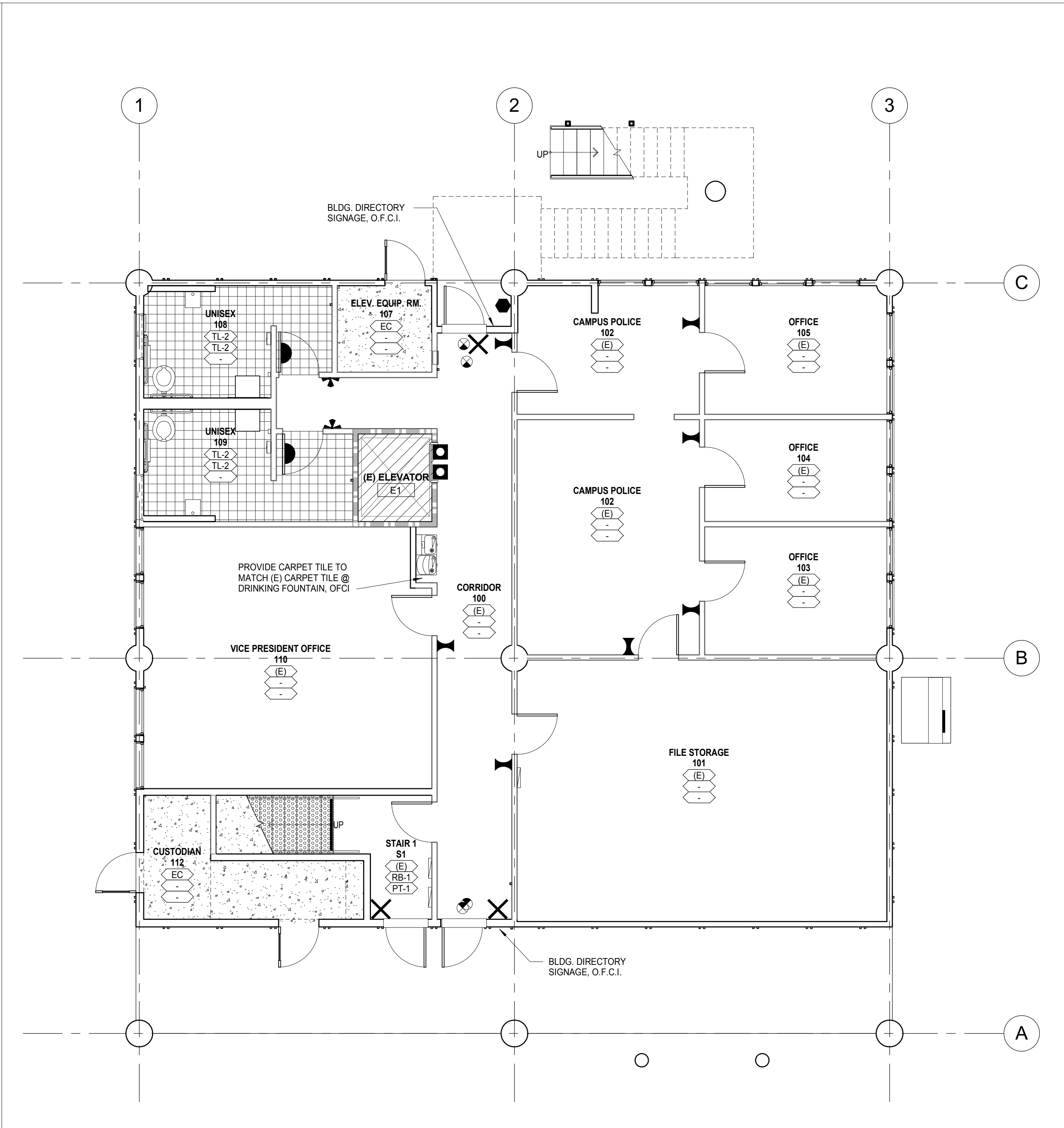
**CONSTRUCTION DOCUMENTS**  
**ROOF PLAN**



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**2** FINISH/SIGNAGE PLAN - LEVEL 2 3/16" = 1'-0"



**1** FINISH/SIGNAGE PLAN - LEVEL 1 3/16" = 1'-0"

SYMBOL	FINISH	MANUFACTURER / NUMBER / COLOR
	RESILIENT FLOORING - RF2	LINOLEUM FLOORING - ARMSTRONG MARMORETTE
	PLYWOOD - WD-1	PLYWOOD - 1/4" PRE-FINISHED VENEER PLYWOOD WOOD
	EXISTING CONCRETE - EC	
	DRY ERASE WALLCOVERING - WC-1	MAGNETIC DRY ERASE WALL COVERING MFR: KOROSEAL, PRODUCT: WALLTALKERS NOTE: PROVIDE LEVEL 5 DRYWALL FINISH TO RECEIVE WALLCOVERING
	BASE - RB-1	4" RUBBER BASE, SEE 3/A9.2
	BASE - RB-2	4" RUBBER BASE ACCENT COLOR
	PAINT - PT-1	PAINT, COLOR TBD
	PAINT - PT-2	PAINT, ACCENT COLOR TBD

SYMBOL	FINISH	MANUFACTURER / NUMBER / COLOR
	(E)	(E) CARPET TILE, RUBBER BASE, & WALL FINISHES
	CARPET - CPT-2	CARPET TILE
	CARPET - CPT-3	BROADLOOM CARPET
	CARPET - CPT-4	BROADLOOM CARPET STRIP AT STAIR NOSING
	TILE - TL-1	PORCELAIN TILE - WALL TILE
	TILE - TL-2	PORCELAIN TILE - FLOOR TILE AND COVE BASE
	RESILIENT FLOORING - RF1	LINOLEUM FLOORING

**GENERAL NOTES:**

- ALL FLOOR TILE TO BE THIN SET PER TONA F131-11 FOR INTERIOR FLOORS OVER CONCRETE.
- ALL WALL TILE TO BE THIN SET PER TONA W244-11 FOR INTERIOR WALLS OVER METAL STUDS.

**LEGEND:**

- OFFICE 101 → ROOM NAME
- 101 → ROOM NUMBER
- CPT1 → FLOOR FINISH
- RB1 → WALL BASE
- PT1 → GENERAL WALL FINISH OR SEE INTERIOR ELEVATIONS (S.I.E.)

SIGNAGE LEGEND

FINISH LEGEND

FINISH LEGEND / GENERAL NOTES

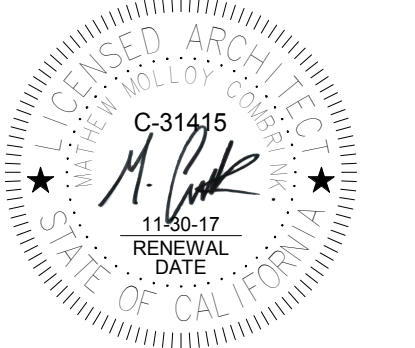
1/8" = 1'-0"

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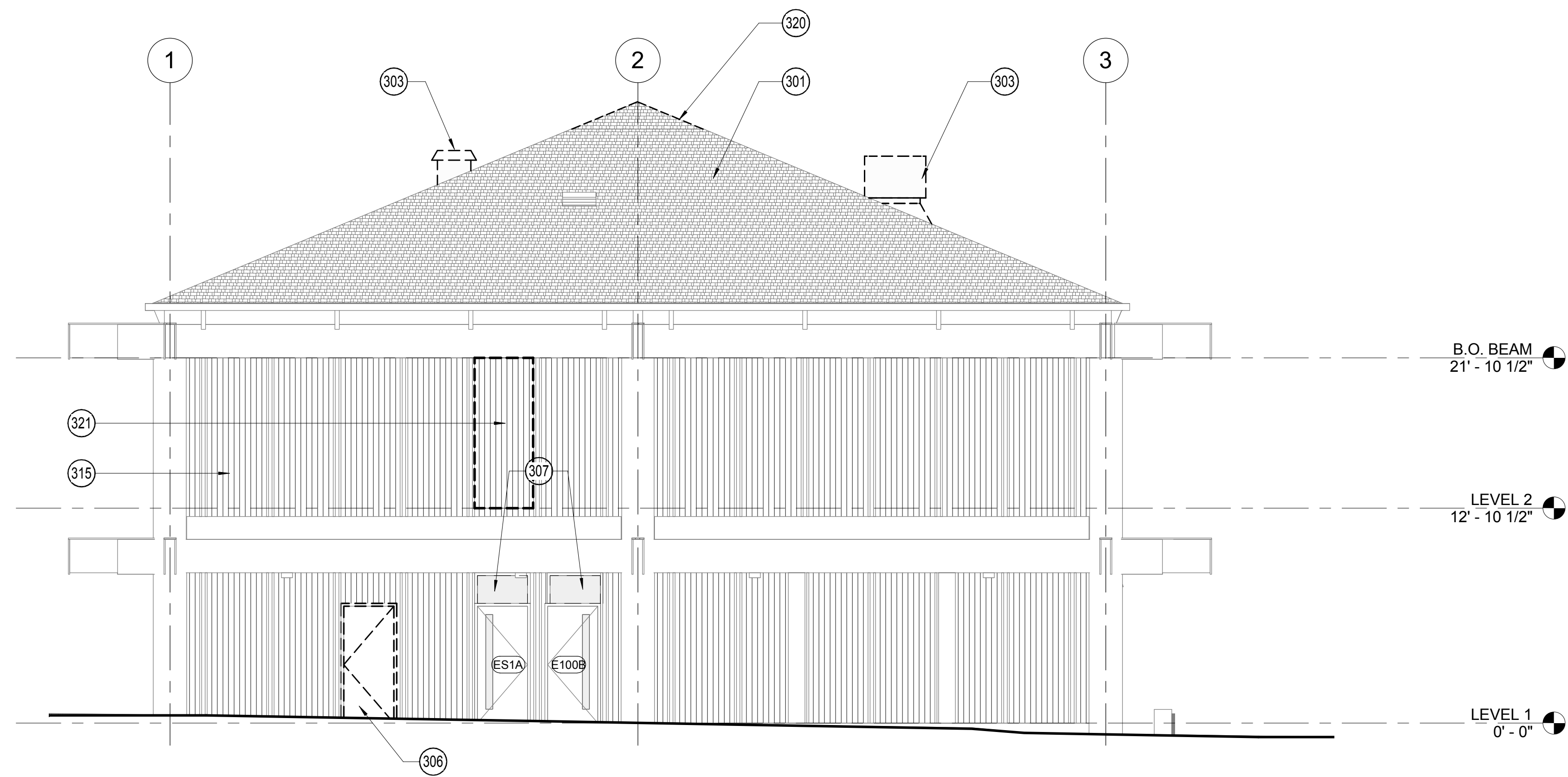
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**CONSTRUCTION DOCUMENTS**  
**FINISH & SIGNAGE PLANS**

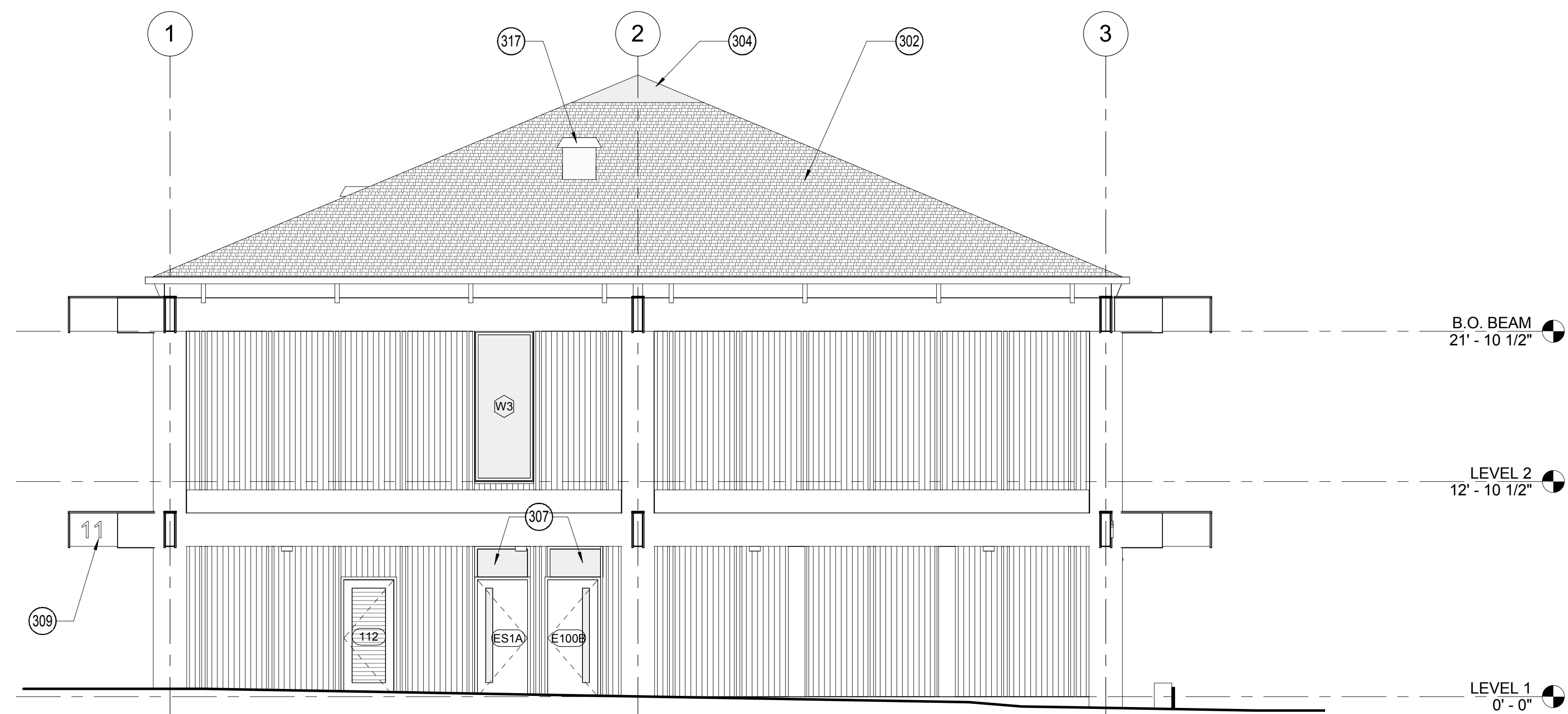


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2 DEMOLITION - SOUTH ELEVATION

3/16" = 1'-0"



1 SOUTH ELEVATION

3/16" = 1'-0"

- GENERAL NOTES:
- SEE A9.3 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
  - SEE A9.10 FOR TYPICAL MILLWORK DETAILS
  - SEE A2.4 FOR FINISHES SCHEDULE

INTERIOR ELEVATION GENERAL NOTES

- |   |  |
|---|--|
| 301 REMOVE EXISTING SHINGLE ROOFING, PREP SUBSTRATE FOR NEW ROOFING | 317 MECH VENT, S.M.D.  |
| 302 NEW ASPHALT SHINGLE ROOFING                                     | 318 NOT USED   |
| 303 DEMOLISH EXISTING ROOF VENT                                     | 319 (E) MECH. UNIT   |
| 304 NEW SKYLIGHT, OFCI  | 320 DEMO EXISTING ROOF MEMBRANE FOR SKYLIGHT OPENING. (E) ROOF FRAMING TO REMAIN |
| 305 EXISTING WINDOW TO BE DEMOLISHED, TYP.                          | 321 REMOVE WAL AREA FOR NEW WINDOW OPENING BETWEEN EXISTING WOOD BATTENS, V.I.F. |
| 306 EXISTING DOOR TO BE DEMOLISHED, TYP. (E) FRAME TO REMAIN        | 322 (E) WALL LOUVER, TYP. S.M.D. FOR REUSE                                       |
| 307 REMOVE (E) SOLID TRANSOM PANEL, REPLACE W/ 1/2" GLASS PANEL     |  |
| 308 REMOVE (E) BUILDING NUMBER SIGNAGE                              |  |
| 309 NEW BUILDING NUMBER SIGNAGE, O.F.C.I.                           |  |
| 310 (E) LIGHT FIXTURE   |  |
| 311 LIGHT FIXTURE, S.E.D.   |  |
| 312 MECH UNIT, S.M.D.   |  |
| 313 (E) GUARDRAIL   |  |
| 314 (E) LOUVER  |  |
| 315 (E) BOARD & BATT SIDING, TYP.                                   |  |
| 316 (E) GLULAM BEAM, TYP.   |  |

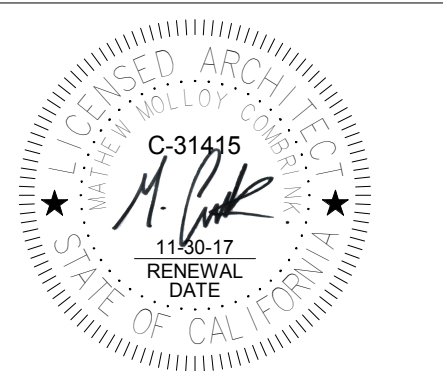
ELEVATION KEYNOTES

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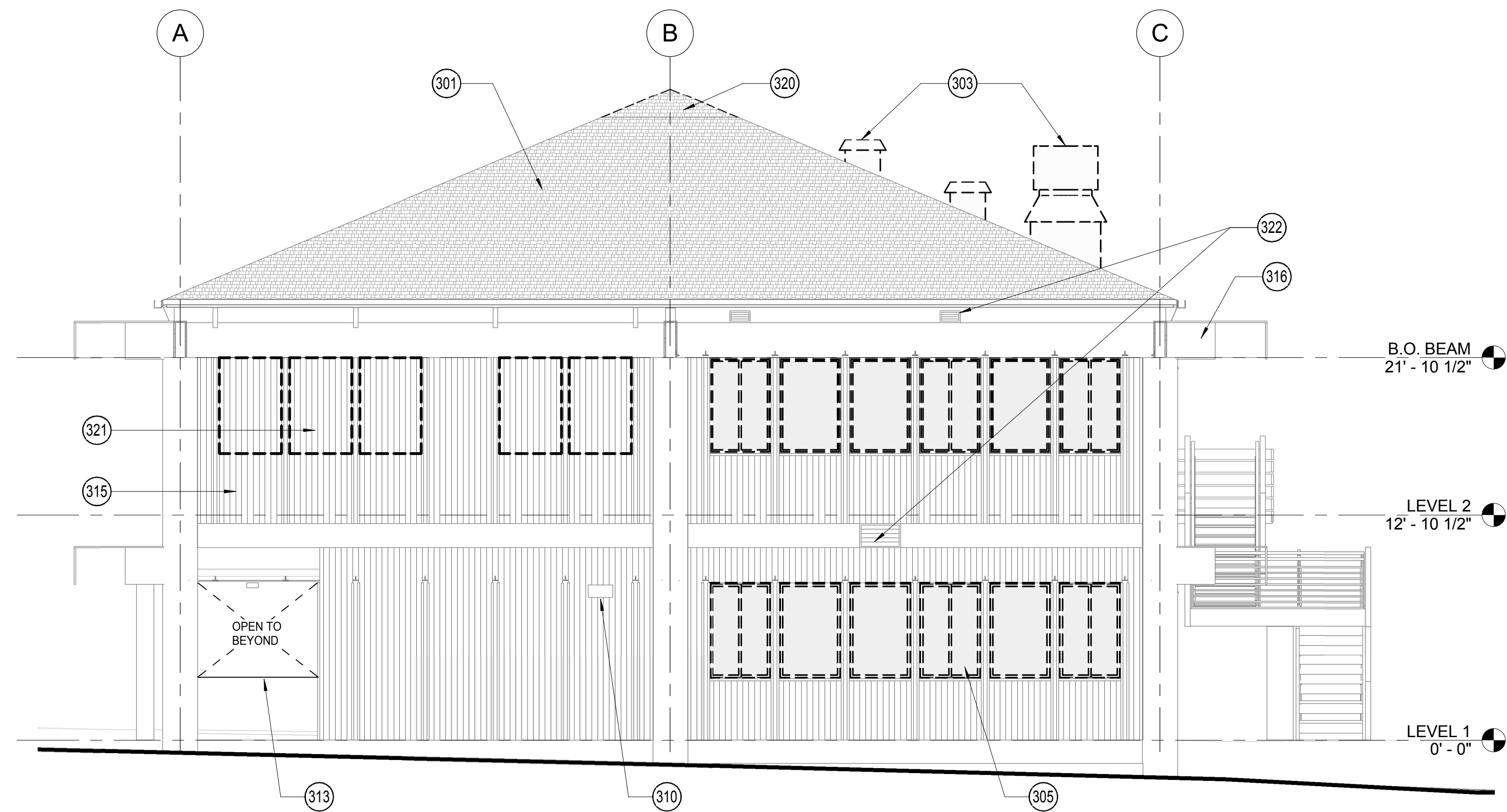
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CONSTRUCTION DOCUMENTS  
BUILDING ELEVATIONS - SOUTH

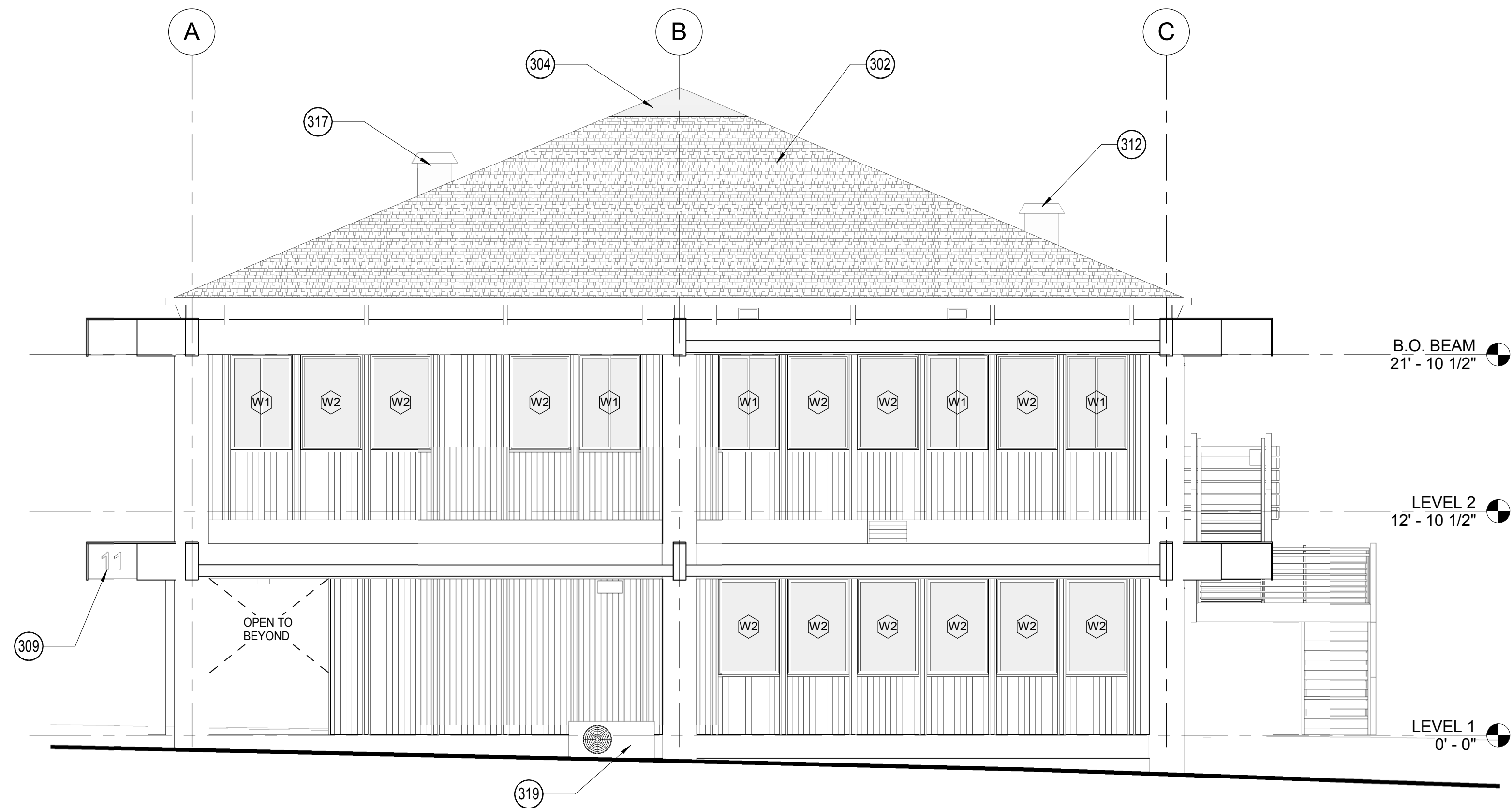


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2 DEMOLITION - EAST ELEVATION

3/16" = 1'-0"



1 EAST ELEVATION

3/16" = 1'-0"

- GENERAL NOTES:
- SEE A9.3 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
  - SEE A9.10 FOR TYPICAL MILLWORK DETAILS
  - SEE A2.4 FOR FINISHES SCHEDULE

INTERIOR ELEVATION GENERAL NOTES

- |   |  |
|---|--|
| (301) REMOVE EXISTING SHINGLE ROOFING, PREP SUBSTRATE FOR NEW ROOFING | (317) MECH VENT, S.M.D.  |
| (302) NEW ASPHALT SHINGLE ROOFING                                     | (318) NOT USED   |
| (303) DEMOLISH EXISTING ROOF VENT                                     | (319) (E) MECH. UNIT   |
| (304) NEW SKYLIGHT, OFCI  | (320) DEMO EXISTING ROOF MEMBRANE FOR SKYLIGHT OPENING. (E) ROOF FRAMING TO REMAIN |
| (305) EXISTING WINDOW TO BE DEMOLISHED, TYP.                          | (321) REMOVE WAL AREA FOR NEW WINDOW OPENING BETWEEN EXISTING WOOD BATTENS, V.I.F. |
| (306) EXISTING DOOR TO BE DEMOLISHED, TYP. (E) FRAME TO REMAIN        | (322) (E) WALL LOUVER, TYP. S.M.D. FOR REUSE                                       |
| (307) REMOVE (E) SOLID TRANSOM PANEL, REPLACE W/ 1/2" GLASS PANEL     |  |
| (308) REMOVE (E) BUILDING NUMBER SIGNAGE                              |  |
| (309) NEW BUILDING NUMBER SIGNAGE, O.F.C.I.                           |  |
| (310) (E) LIGHT FIXTURE   |  |
| (311) LIGHT FIXTURE, S.E.D.   |  |
| (312) MECH UNIT, S.M.D.   |  |
| (313) (E) GUARDRAIL   |  |
| (314) (E) LOUVER  |  |
| (315) (E) BOARD & BATT SIDING, TYP.                                   |  |
| (316) (E) GLULAM BEAM, TYP.   |  |

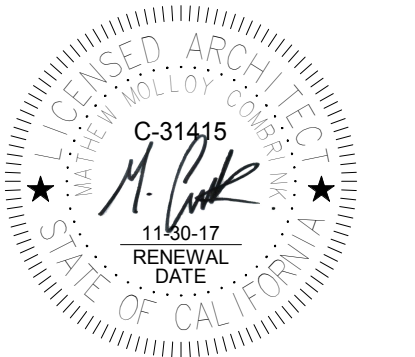
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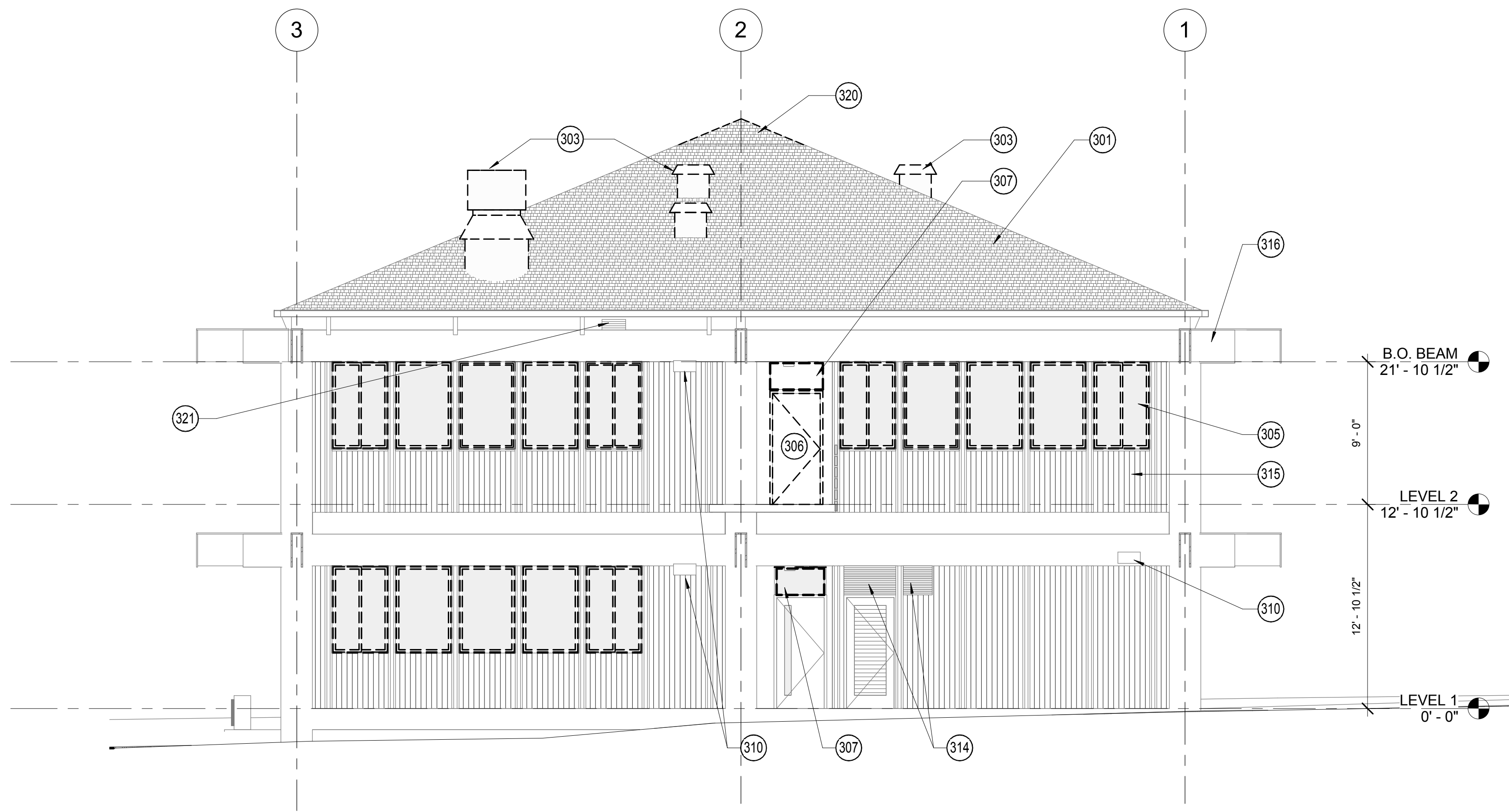
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CONSTRUCTION DOCUMENTS  
BUILDING ELEVATIONS - EAST

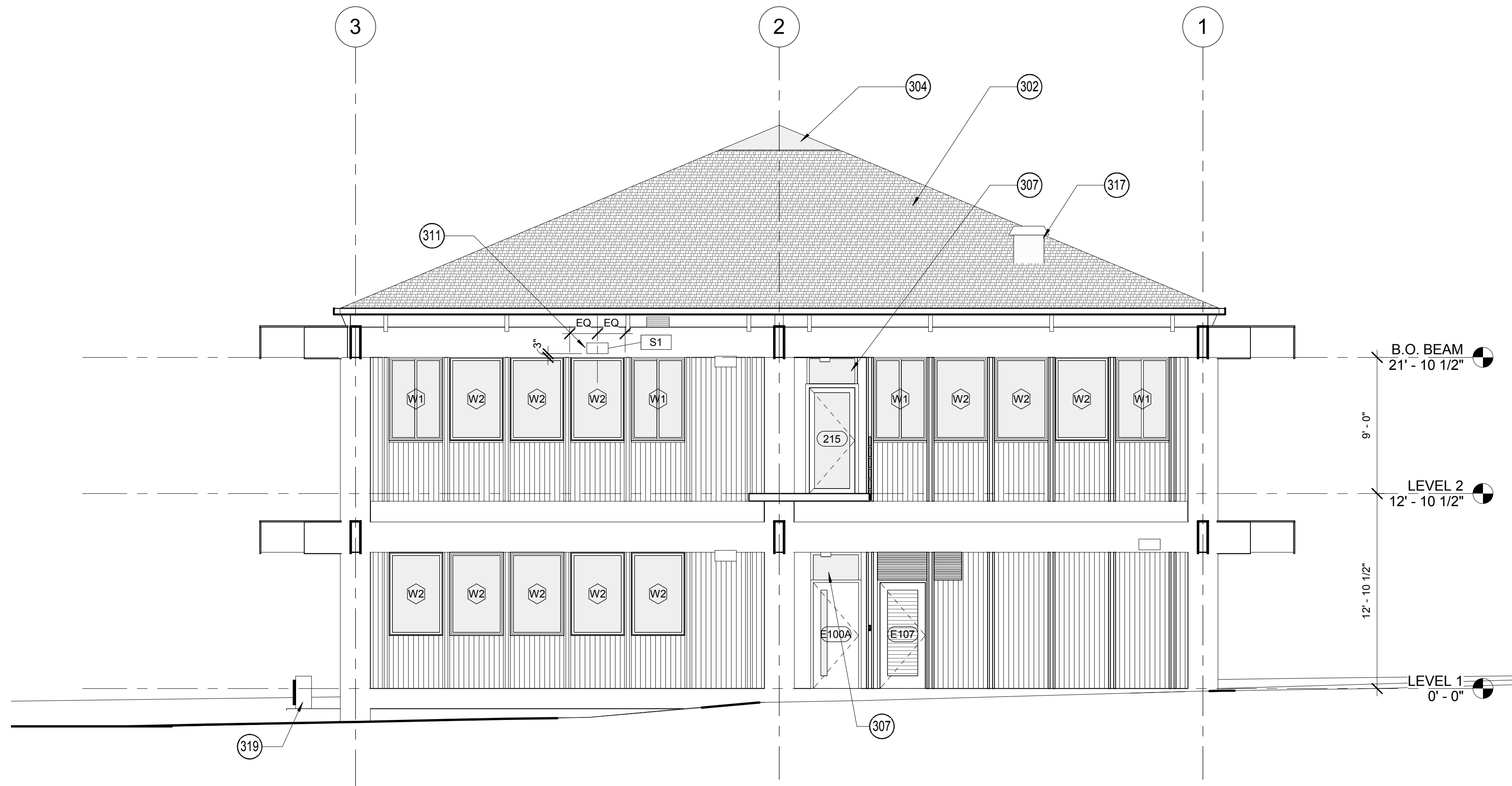


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2 DEMOLITION - NORTH ELEVATION

3/16" = 1'-0"



1 NORTH ELEVATION

3/16" = 1'-0"

GENERAL NOTES:  
 1. SEE A9.3 FOR TYPICAL ACCESSIBILITY REQUIREMENTS  
 2. SEE A9.10 FOR TYPICAL MILLWORK DETAILS  
 3. SEE A2.4 FOR FINISHES SCHEDULE

INTERIOR ELEVATION GENERAL NOTES

- |   |  |
|---|--|
| (301) REMOVE EXISTING SHINGLE ROOFING. PREP SUBSTRATE FOR NEW ROOFING | (317) MECH VENT, S.M.D.  |
| (302) NEW ASPHALT SHINGLE ROOFING                                     | (318) NOT USED   |
| (303) DEMOLISH EXISTING ROOF VENT                                     | (319) (E) MECH. UNIT   |
| (304) NEW SKYLIGHT, OFCI  | (320) DEMO EXISTING ROOF MEMBRANE FOR SKYLIGHT OPENING. (E) ROOF FRAMING TO REMAIN |
| (305) EXISTING WINDOW TO BE DEMOLISHED, TYP.                          | (321) REMOVE WAL AREA FOR NEW WINDOW OPENING BETWEEN EXISTING WOOD BATTENS, V.I.F. |
| (306) EXISTING DOOR TO BE DEMOLISHED, TYP. (E) FRAME TO REMAIN        | (322) (E) WALL LOUVER, TYP. S.M.D. FOR REUSE                                       |
| (307) REMOVE (E) SOLID TRANSOM PANEL. REPLACE W/ 1/2" GLASS PANEL     |  |
| (308) REMOVE (E) BUILDING NUMBER SIGNAGE                              |  |
| (309) NEW BUILDING NUMBER SIGNAGE, O.F.C.I.                           |  |
| (310) (E) LIGHT FIXTURE   |  |
| (311) LIGHT FIXTURE, S.E.D.   |  |
| (312) MECH UNIT, S.M.D.   |  |
| (313) (E) GUARDRAIL   |  |
| (314) (E) LOUVER  |  |
| (315) (E) BOARD & BATT SIDING, TYP.                                   |  |
| (316) (E) GLULAM BEAM, TYP.   |  |

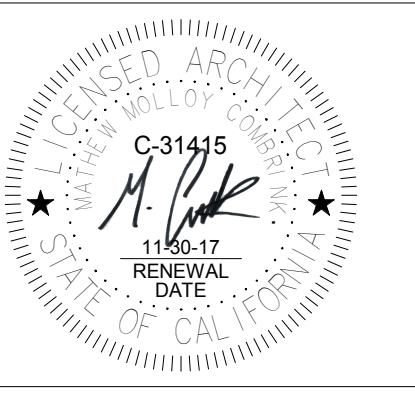
ELEVATION KEYNOTES

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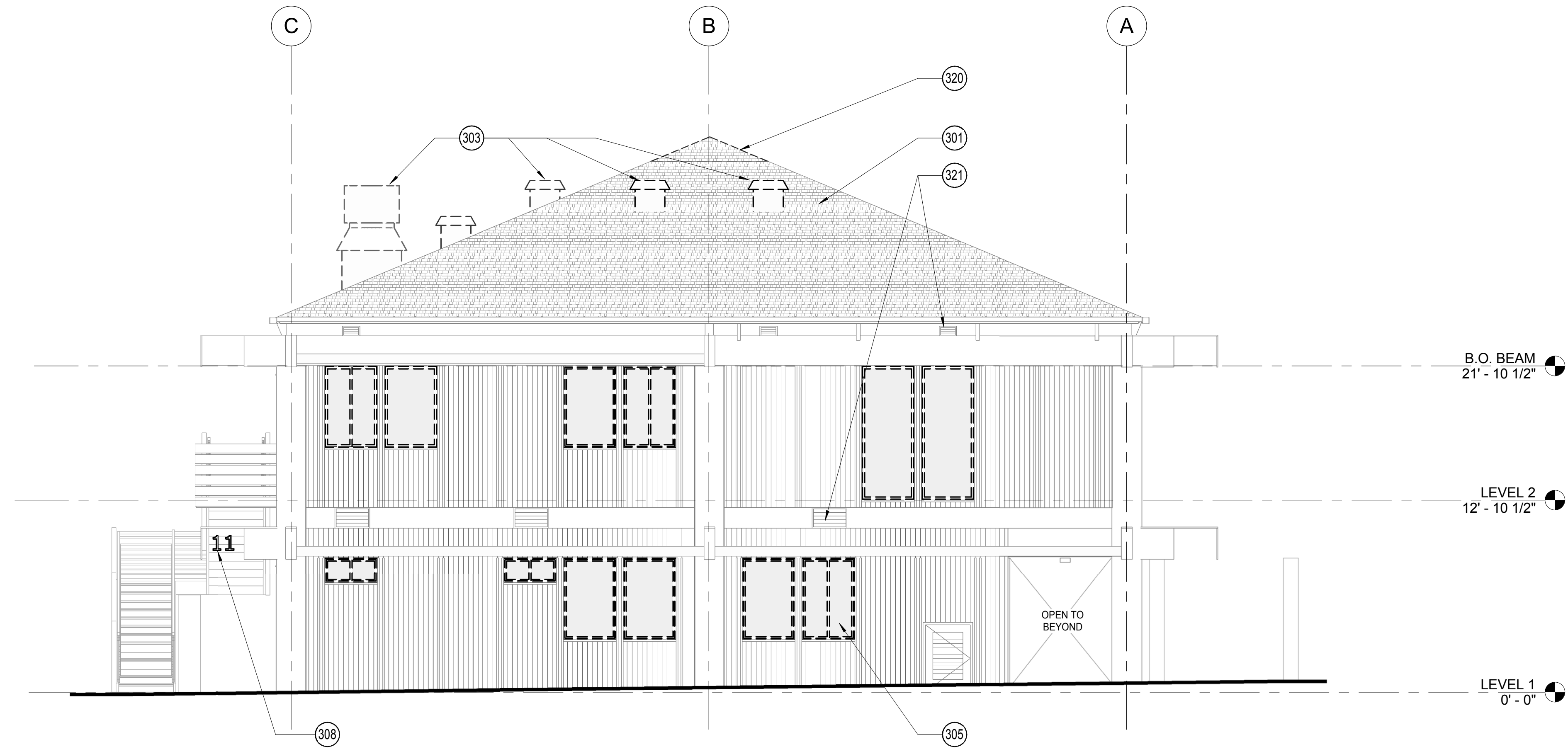
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 date: 03/10/2017

CONSTRUCTION DOCUMENTS  
 BUILDING ELEVATIONS - NORTH

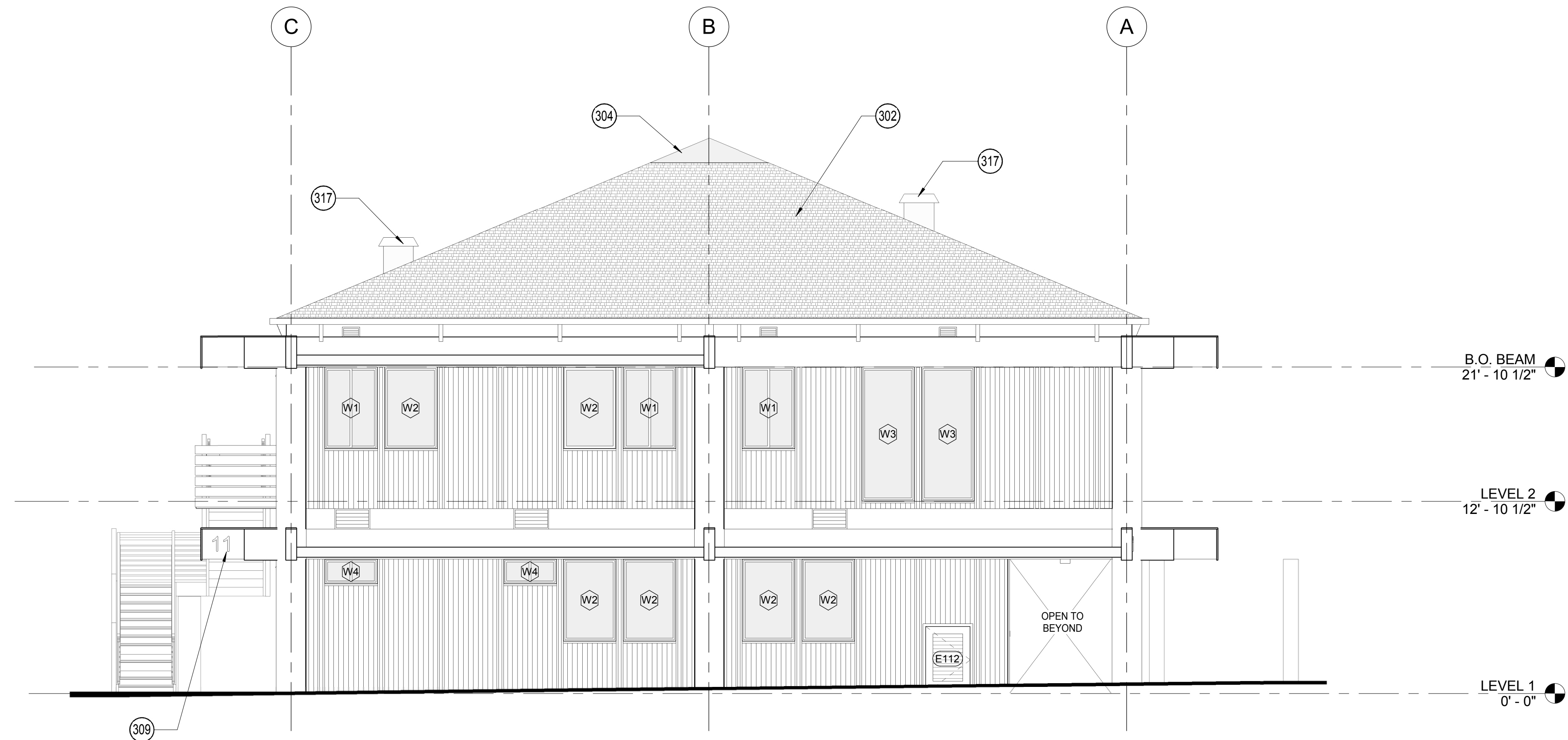


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**2** DEMOLITION - WEST ELEVATION

3/16" = 1'-0"



**1** WEST ELEVATION

3/16" = 1'-0"

- GENERAL NOTES:
1. SEE A9.3 FOR TYPICAL ACCESSIBILITY REQUIREMENTS
  2. SEE A9.10 FOR TYPICAL MILLWORK DETAILS
  3. SEE A2.4 FOR FINISHES SCHEDULE

**INTERIOR ELEVATION GENERAL NOTES**

- |   |  |
|---|--|
| (301) REMOVE EXISTING SHINGLE ROOFING, PREP SUBSTRATE FOR NEW ROOFING | (317) MECH VENT, S.M.D.  |
| (302) NEW ASPHALT SHINGLE ROOFING                                     | (318) NOT USED   |
| (303) DEMOLISH EXISTING ROOF VENT                                     | (319) (E) MECH. UNIT   |
| (304) NEW SKYLIGHT, OFCI  | (320) DEMO EXISTING ROOF MEMBRANE FOR SKYLIGHT OPENING, (E) ROOF FRAMING TO REMAIN |
| (305) EXISTING WINDOW TO BE DEMOLISHED, TYP.                          | (321) REMOVE WAL AREA FOR NEW WINDOW OPENING BETWEEN EXISTING WOOD BATTENS, V.I.F. |
| (306) EXISTING DOOR TO BE DEMOLISHED, TYP. (E) FRAME TO REMAIN        | (322) (E) WALL LOUVER, TYP. S.M.D. FOR REUSE                                       |
| (307) REMOVE (E) SOLID TRANSOM PANEL, REPLACE W/ 1/2" GLASS PANEL     |  |
| (308) REMOVE (E) BUILDING NUMBER SIGNAGE                              |  |
| (309) NEW BUILDING NUMBER SIGNAGE, O.F.C.I.                           |  |
| (310) (E) LIGHT FIXTURE   |  |
| (311) LIGHT FIXTURE, S.E.D.   |  |
| (312) MECH UNIT, S.M.D.   |  |
| (313) (E) GUARDRAIL   |  |
| (314) (E) LOUVER  |  |
| (315) (E) BOARD & BATT SIDING, TYP.                                   |  |
| (316) (E) GLULAM BEAM, TYP.   |  |

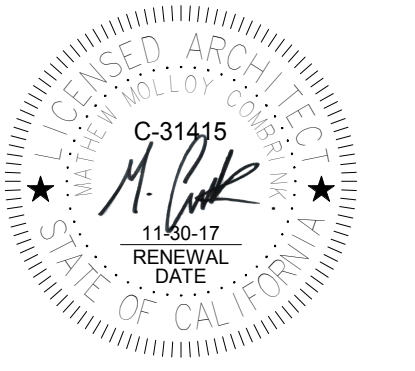
**ELEVATION KEYNOTES**

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college of marin - indian valley campus bldg. 11 renovation

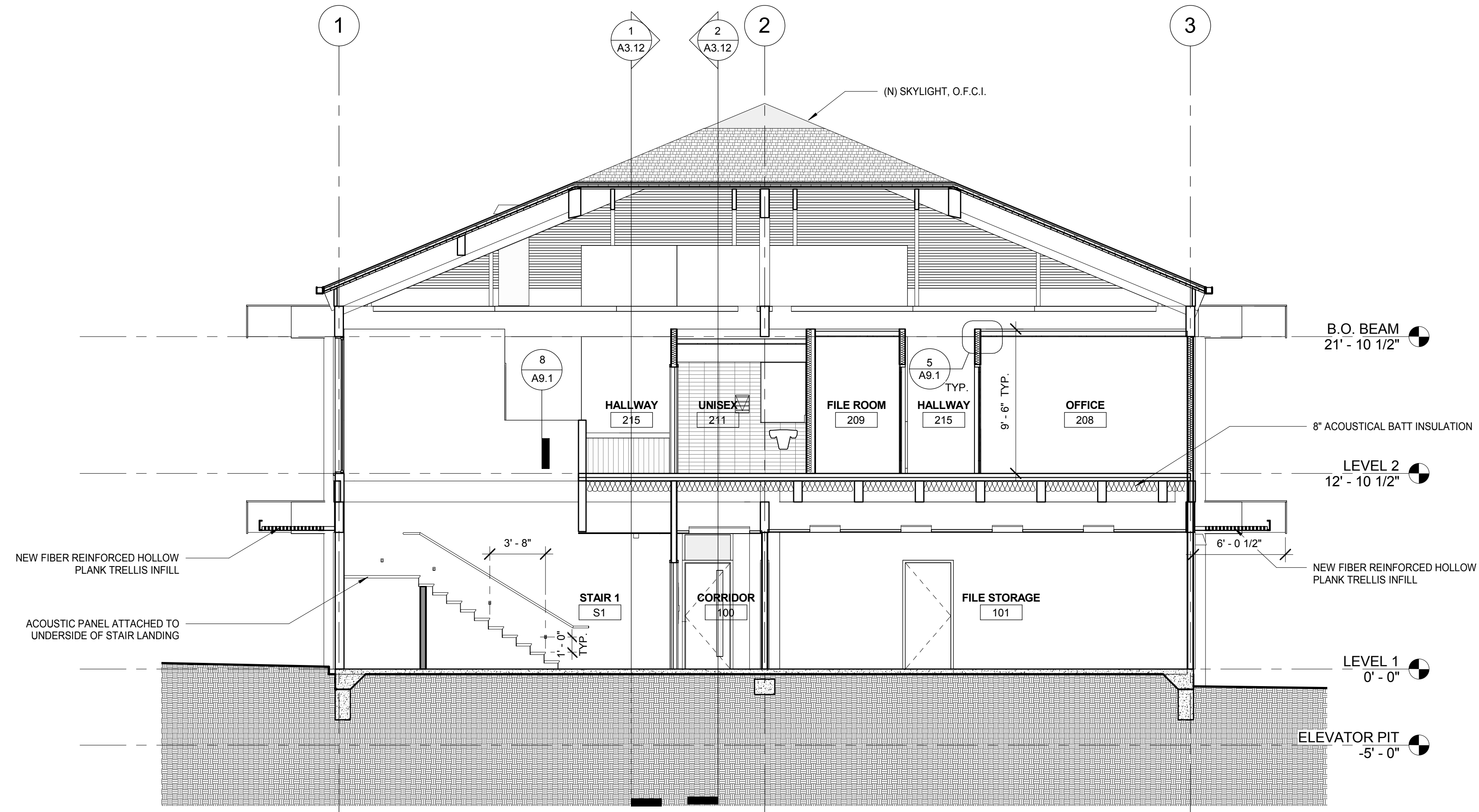
novato, california  
 project number: 16-148.01

scale: as noted  
 date: 03/10/2017

**CONSTRUCTION DOCUMENTS**  
**BUILDING ELEVATION - WEST**

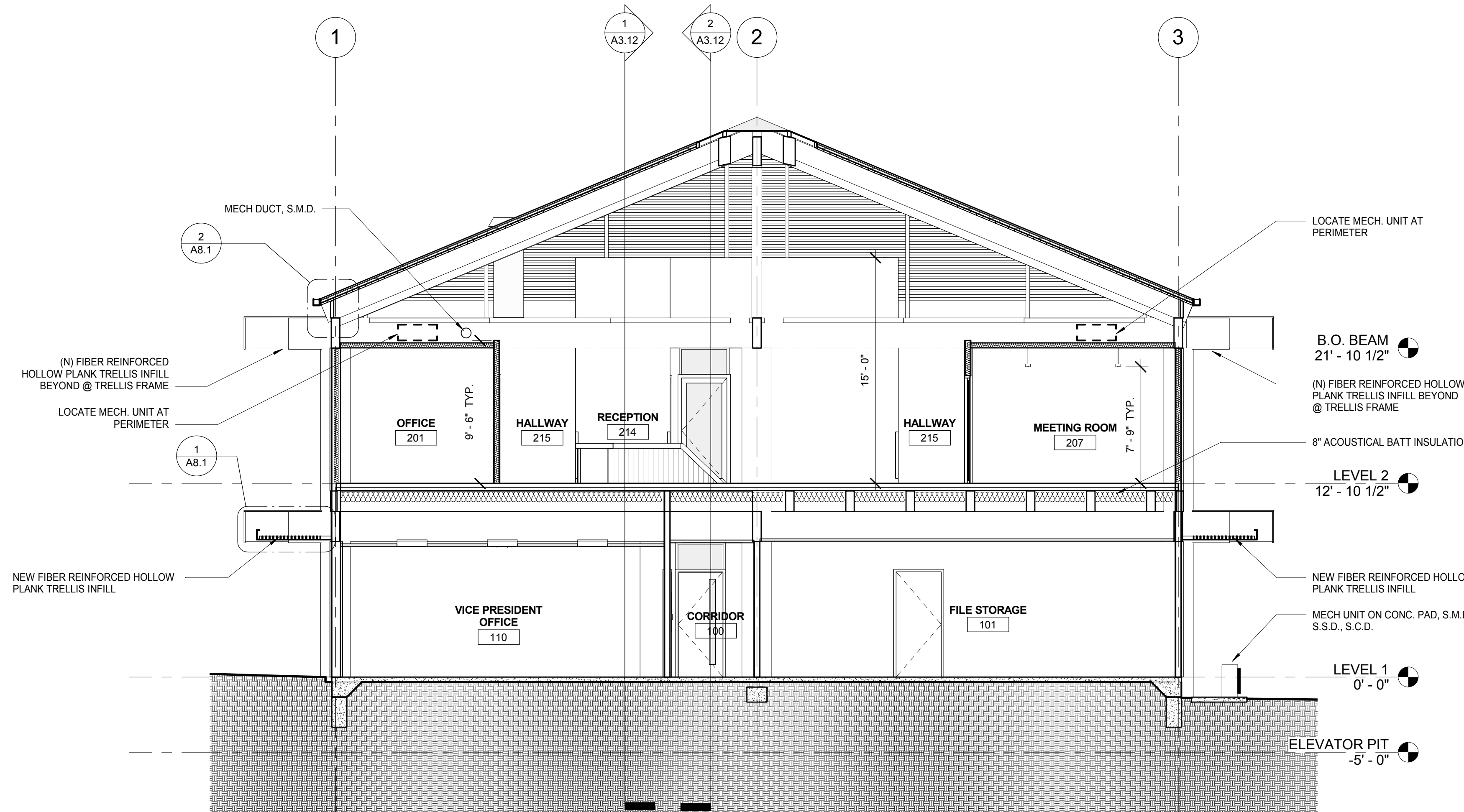


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**2** BLDG. SECTION THRU STAIRS

3/16" = 1'-0"



**1** BLDG. SECTION THRU CENTRAL SPACE

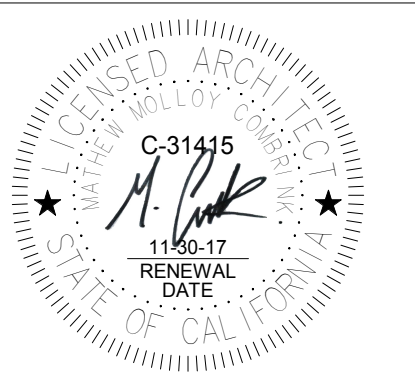
3/16" = 1'-0"

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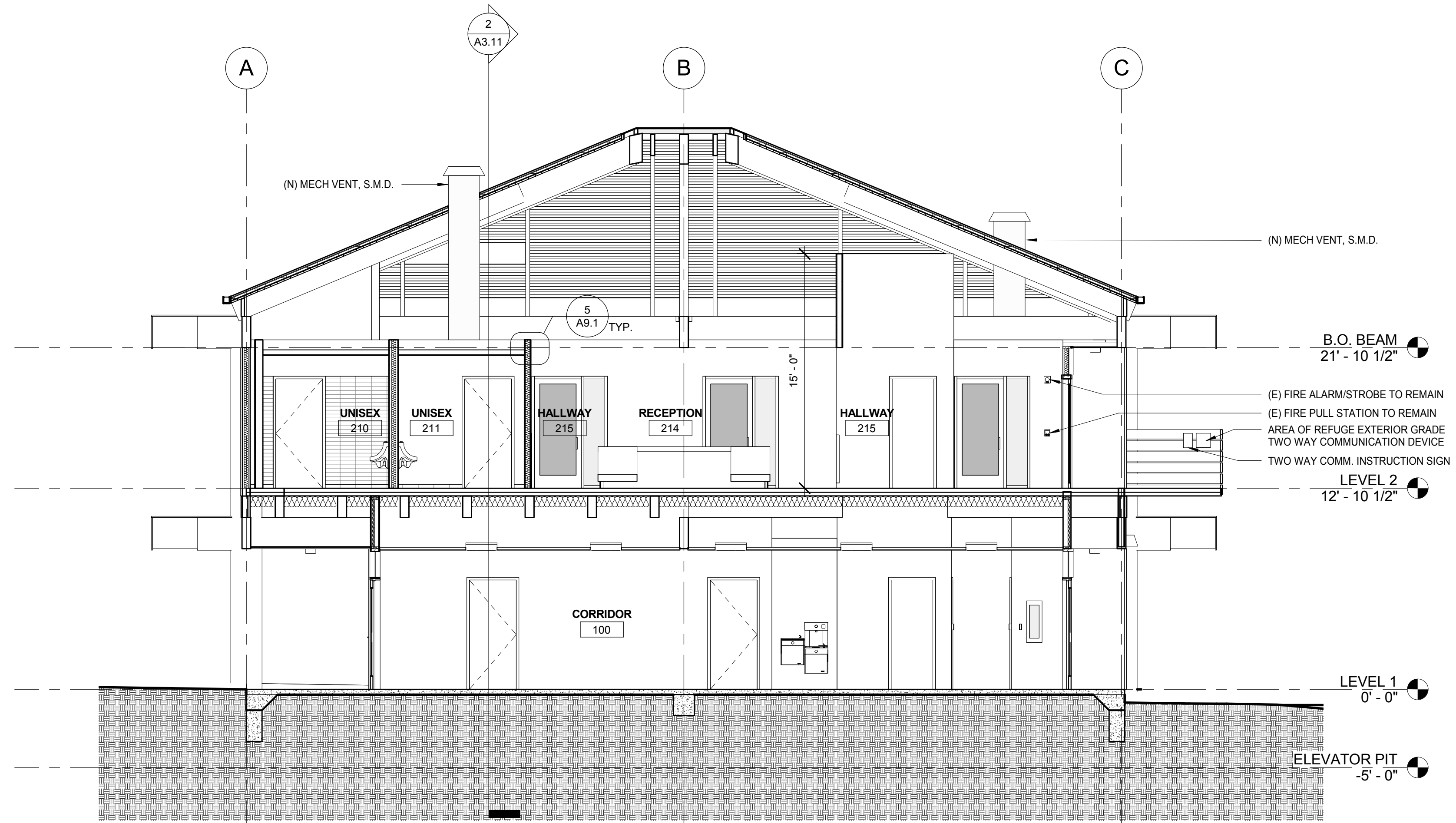
**CONSTRUCTION  
DOCUMENTS**

**BUILDING  
SECTIONS**

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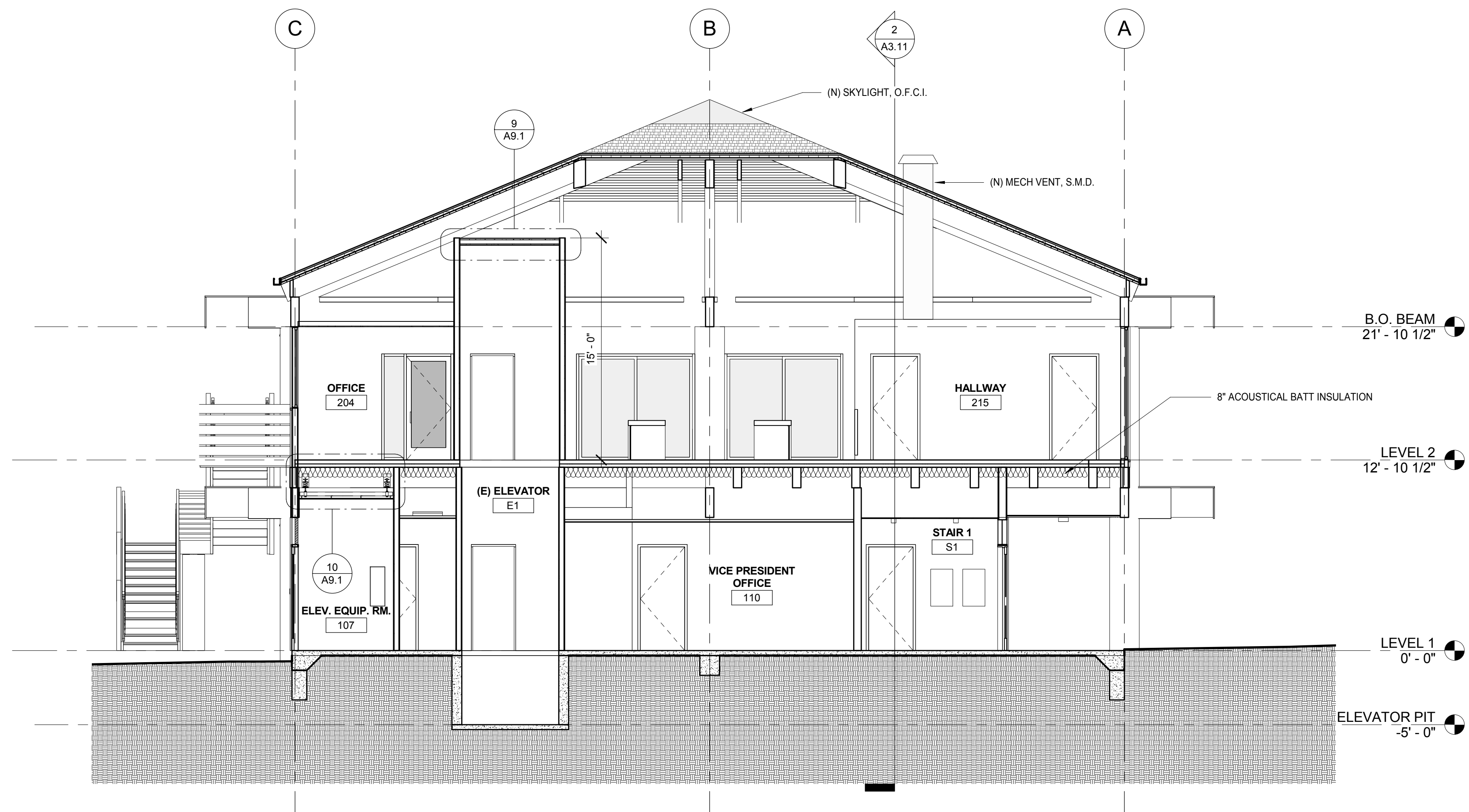


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2 BLDG. SECTION THRU HALLWAY

3/16" = 1'-0"



1 BLDG. SECTION THRU ELEV. HOISTWAY

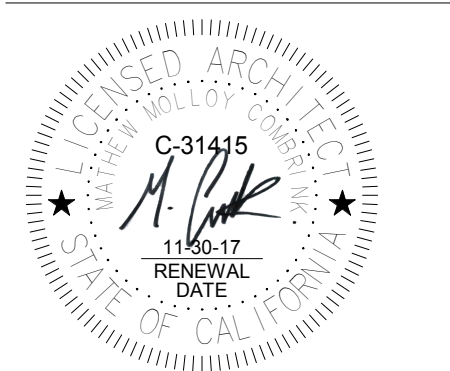
3/16" = 1'-0"

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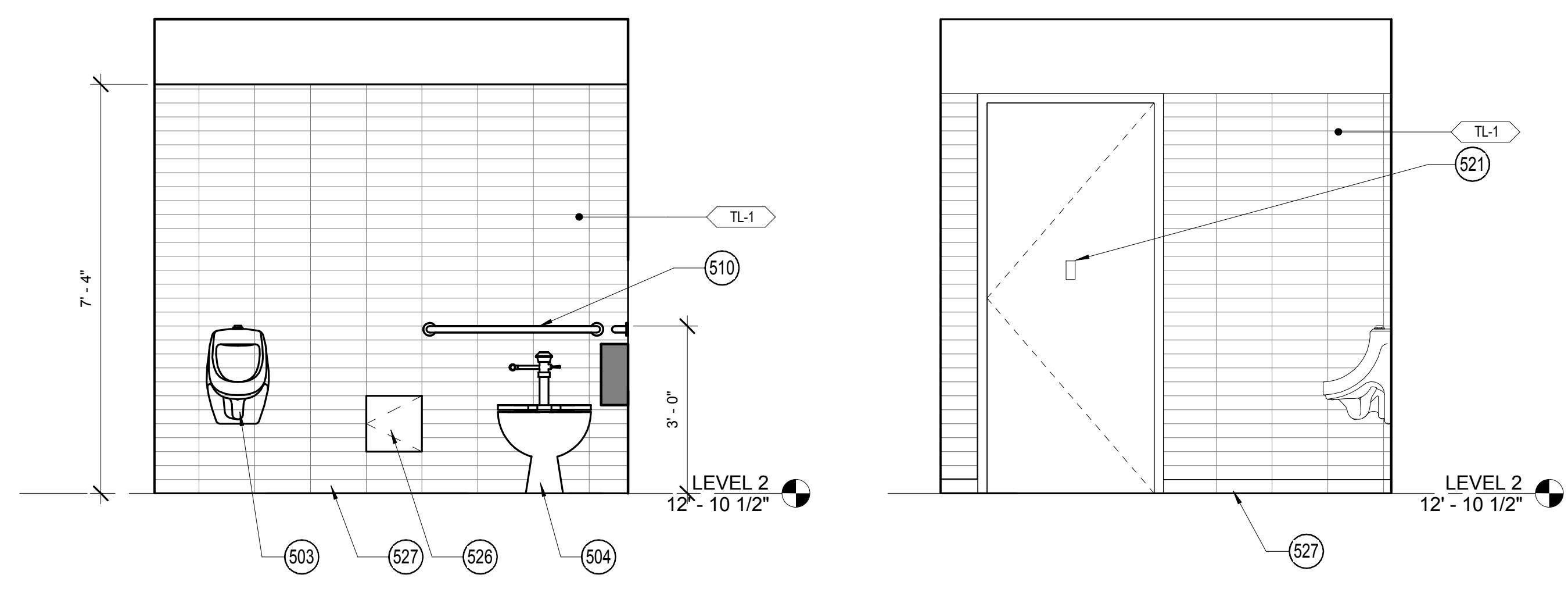
CONSTRUCTION  
DOCUMENTS

BUILDING  
SECTIONS

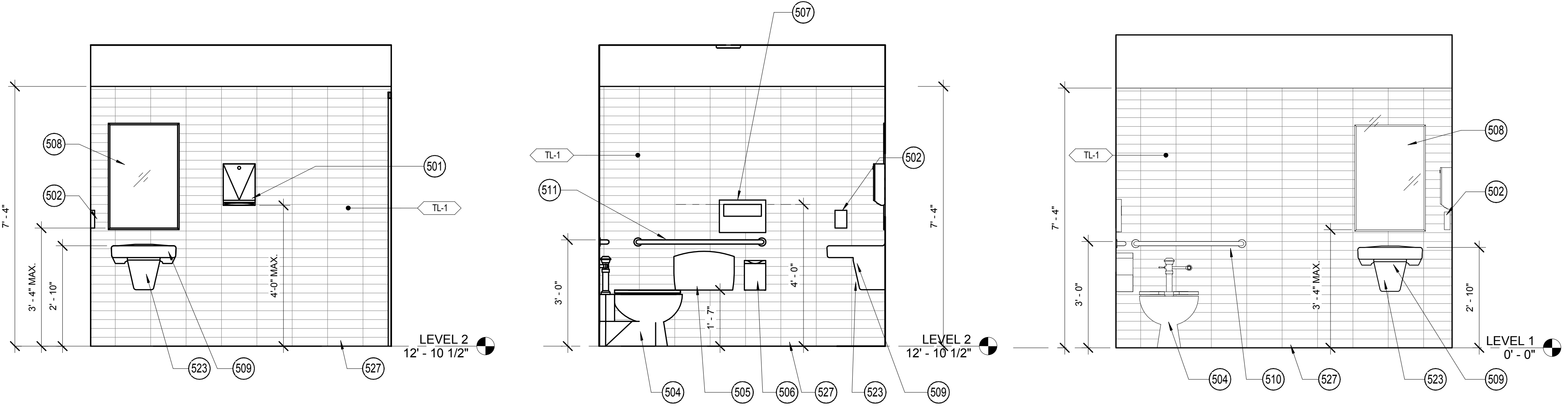
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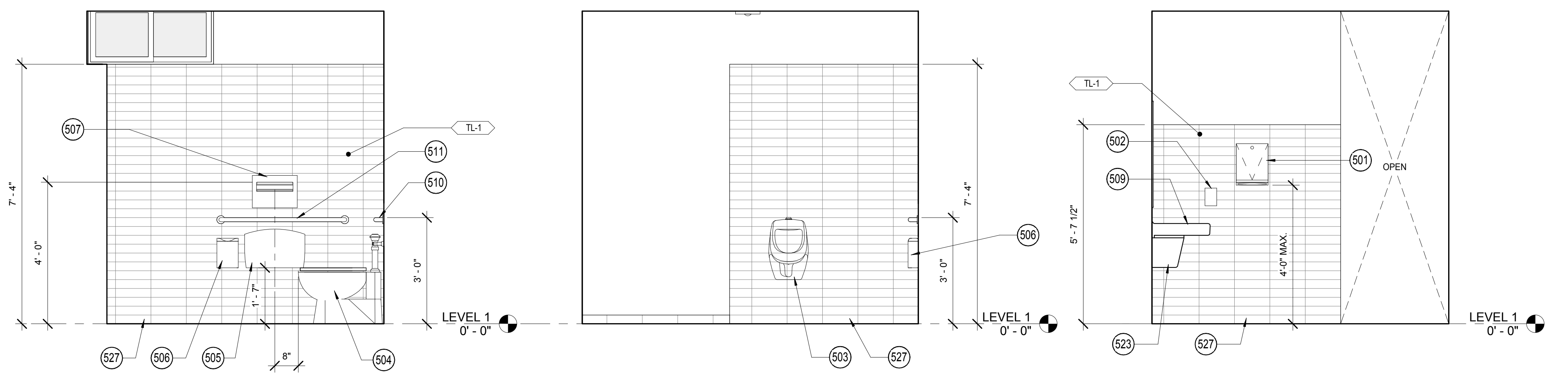
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8 UNISEX RESTROOM #210 - NORTH 1/2" = 1'-0" 7 UNISEX RESTROOM #210 - WEST 1/2" = 1'-0"



6 UNISEX RESTROOM #210 - SOUTH 1/2" = 1'-0" 5 UNISEX RESTROOM #210 - EAST 1/2" = 1'-0" 4 UNISEX RESTROOM #109 - NORTH 1/2" = 1'-0"



3 UNISEX RESTROOM #109 - WEST 1/2" = 1'-0" 2 UNISEX RESTROOM #109 - SOUTH 1/2" = 1'-0" 1 UNISEX RESTROOM #109 - EAST 1/2" = 1'-0"

GENERAL NOTES:  
 1. SEE A9.3 FOR TYPICAL ACCESSIBILITY REQUIREMENTS  
 2. SEE A9.10 FOR TYPICAL MILLWORK DETAILS  
 3. SEE A2.4 FOR FINISHES SCHEDULE

INTERIOR ELEVATION GENERAL NOTES 1/16" = 1'-0"

- 501 PAPER TOWEL DISPENSER, O.F.C.I.
- 502 WALL MOUNTED SOAP DISPENSER, O.F.C.I., SEE 7/A9.3
- 503 WALL MOUNTED URINAL
- 504 FLOOR MOUNTED TOILET
- 505 TOILET PAPER DISPENSER, O.F.C.I.
- 506 SANITARY NAPKIN RECEPTACLE
- 507 TOILET SEAT COVER DISPENSER, O.F.C.I.
- 508 MIRROR
- 509 WALL MOUNTED SINK
- 510 36" GRAB BAR, SEE 8/A9.3
- 511 48" GRAB BAR, SEE 8/A9.3
- 512 QUARTZ SURFACING
- 513 24" REFRIGERATOR, OFCI
- 514 MICROWAVE, OFCI
- 515 4" RUBBER BASE
- 516 LIGHT FIXTURE AS SCHED., S.E.D.
- 517 NOT USED
- 518 WALL MOUNTED FLAT SCREEN MONITOR, OFCI, S.T.D., PROVIDE BLOCKING AS REQUIRED
- 519 WALL MOUNTED MARKER & ERASER CADDY, O.F.C.I.
- 520 1-1/2"Ø WOOD HANDRAIL
- 521 COAT HOOK, TYP. BEHIND DOOR
- 522 MAGNETIC DRY ERASE WALL COVERING. SEE FINISH PLAN
- 523 LAVATORY COVER GUARD AT WATER HEATER AND PIPING, S.M.D.
- 524 PROVIDE BACKING PLATE FOR FUTURE SHELF INSTALLATION
- 525 FUTURE SHELF INSTALLATION
- 526 ACCESS PANEL, S.P.D.
- 527 TILE COVE BASE, SEE A2.6 FOR FINISH SCHEDULE

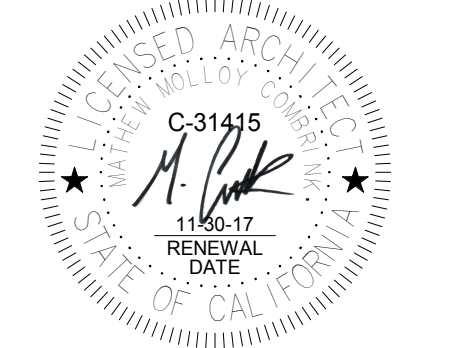
INTERIOR ELEVATION KEYNOTES

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CONSTRUCTION DOCUMENTS  
 INTERIOR ELEVATIONS

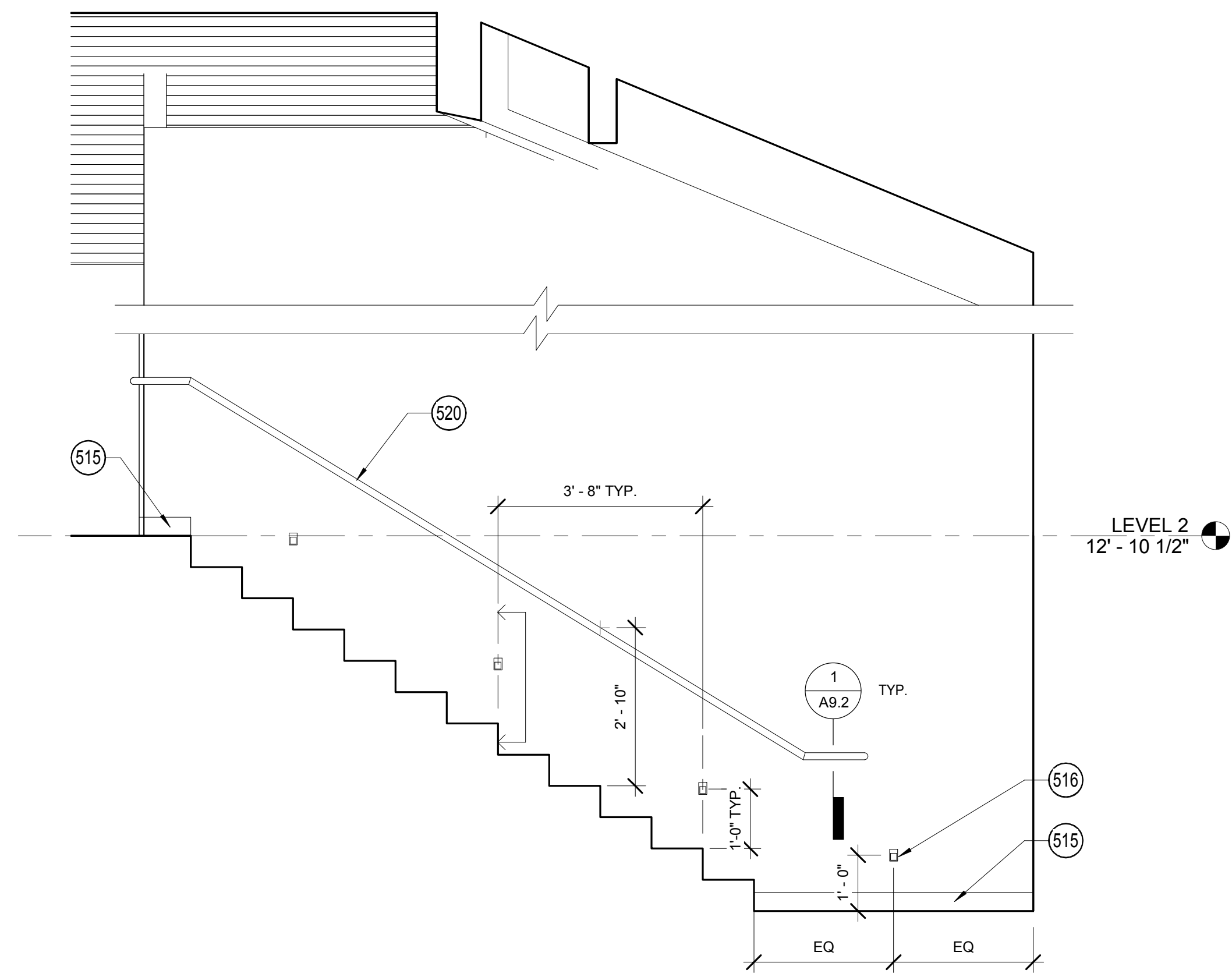


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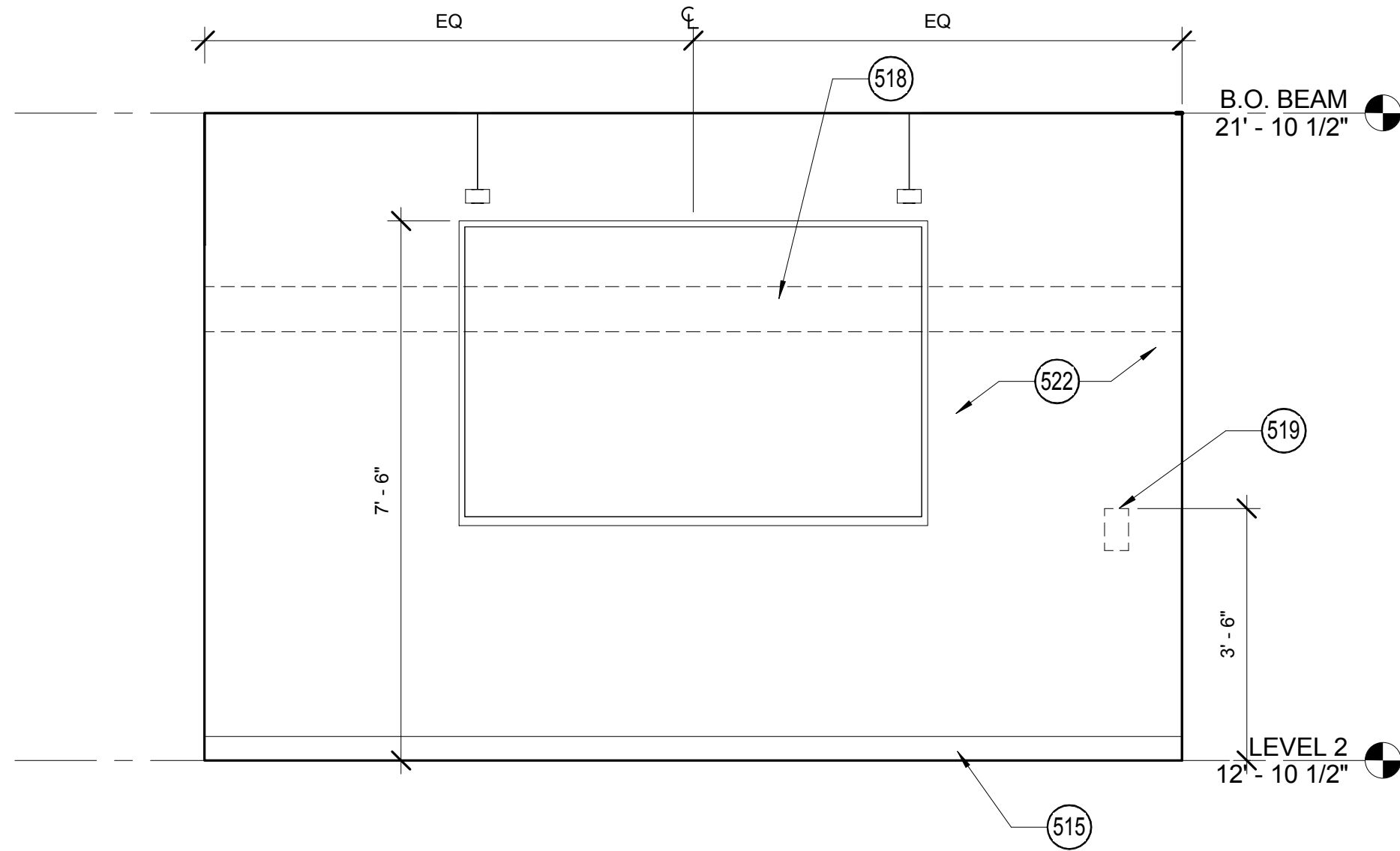
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4 STAIR #1 - SOUTH

1/2" = 1'-0" 3 MEETING #207 - NORTH



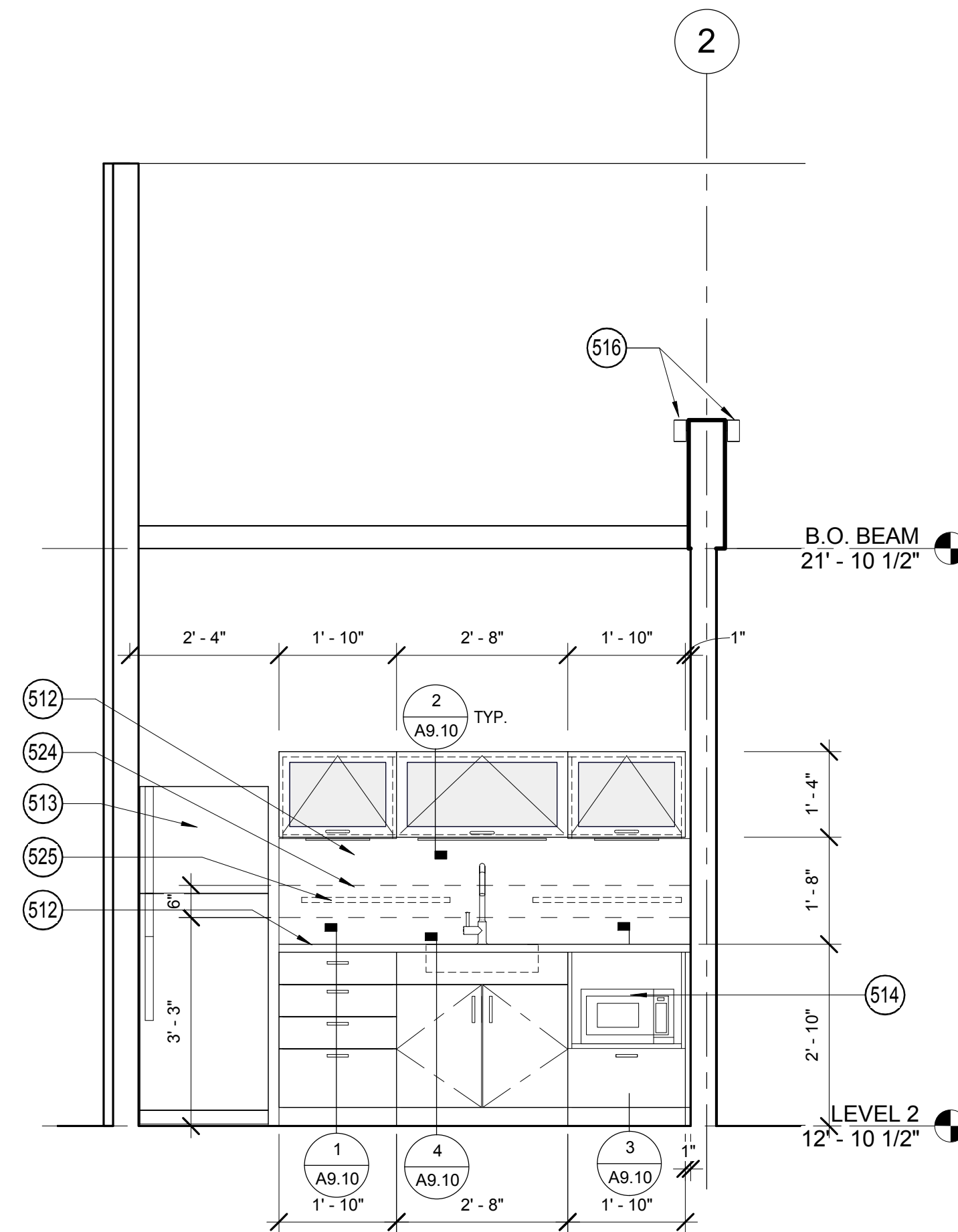
1/2" = 1'-0"

GENERAL NOTES:  
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- 519 WALL MOUNTED MARKER & ERASER CADDY, O.F.C.I.
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- 521 COAT HOOK, TYP. BEHIND DOOR
- 522 MAGNETIC DRY ERASE WALL COVERING. SEE FINISH PLAN
- 523 LAVATORY COVER GUARD AT WATER HEATER AND PIPING, S.M.D.
- 524 PROVIDE BACKING PLATE FOR FUTURE SHELF INSTALLATION
- 525 FUTURE SHELF INSTALLATION
- 526 ACCESS PANEL, S.P.D.
- 527 TILE COVE BASE, SEE A2.6 FOR FINISH SCHEDULE



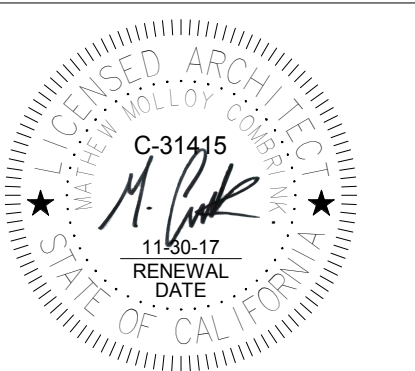
1 KITCHENETTE - SOUTH

1/2" = 1'-0"

INTERIOR ELEVATION KEYNOTES

1/8" = 1'-0"

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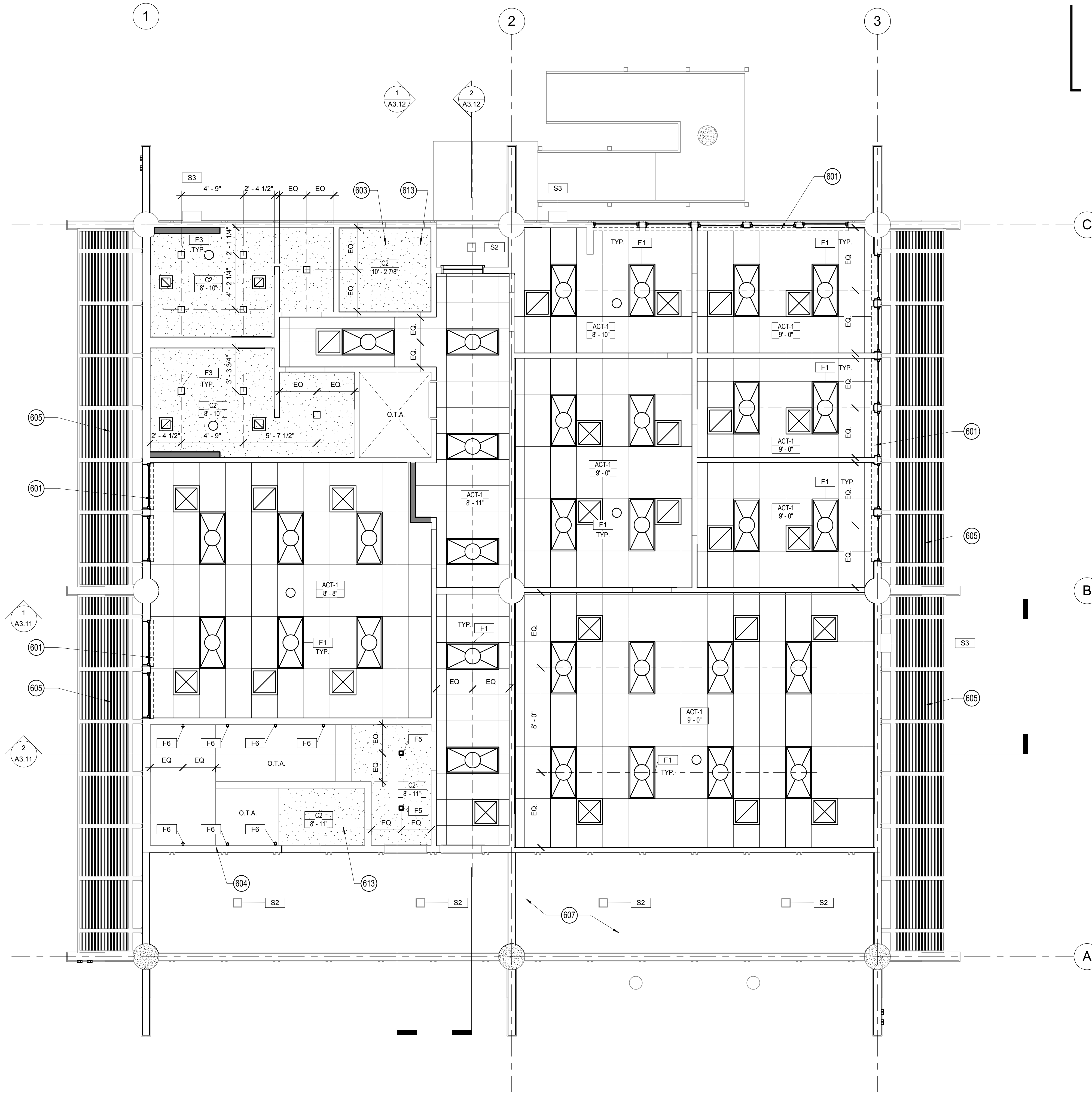
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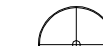



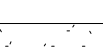
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CONSTRUCTION DOCUMENTS  
INTERIOR ELEVATIONS



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-  MECH. VENT. S.M.D.
-  18" x 18" ACCESS PANEL, @ GYB. BD. CEILING
-  AIR RETURN REGISTER, S.M.D.
-  AIR SUPPLY REGISTER, S.M.D.
-  RECESSED 2x4 LIGHT FIXTURE, S.E.D.
-  RECESSED SPEAKER
-  RECESSED DOWNLIGHT
-  ILLUMINATED EXIT SIGN
-  CEILING MOUNTED FIRE ALARM STROBE
-  FIRE ALARM STROBE, S.E.D.
-  UNDERCABINET LIGHT FIXTURE, S.E.D.
-  LINEAR DIFFUSER, S.E.D.
-  PENDANT LIGHT FIXTURE, LOWEST EDGE 8'-0" A.F.F., S.E.D.
-  SUSPENDED INDIRECT/DIRECT LIGHT FIXTURE, LOWEST EDGE 8'-0" A.F.F., S.E.D.
-  OPEN TO ABOVE
-  GWB CEILING, C1, C2. SEE DETAIL # 7/A9.1 FOR METAL FRAME CEILING. SEE DETAIL #6/A9.1 FOR (E) WOOD FRAME CEILING
-  ACOUSTIC TILE CEILING - SUSPENDED CEILING

**RCP LEGEND** 1/8" = 1'-0"

1. WHERE POSSIBLE, ROUTE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION CONDUITS, DUCTS, CONNECTION LINES TIGHT TO UNDERSIDE OF CEILING AND ALONG EXISTING ROOF STRUCTURE. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION FOR APPROVAL.
2. LIGHT FIXTURE TYPE F7 SHALL BE MOUNTED WITH BOTTOM @ 7'-0" ABOVE SECOND FLOOR.
3. S.E.D. FOR LIGHTING SCHEDULE. FIXTURE CALLOUTS PROVIDED HERE ARE FOR COORDINATION.
4. FOR ACOUSTIC CEILING TILE DETAILS, SEE A9.4
5. SEE A9.5 AND ACOUSTIC REPORT FOR ACOUSTIC DETAILS

**RCP GENERAL NOTES** 1/4" = 1'-0"

- (601) ROLLERSHADE, TYP.
- (602) DUCT SHAFT ABOVE, S.M.D. FOR DUCTWORK, S.S.D. FOR PENETRATION DETAIL
- (603) GYP. BD. CLNG. ON ACOUSTICAL HANGER, SEE DETAIL #10/A9.1
- (604) STEP LIGHT, SEE BLDG SECTION FOR PLACEMENT REQ., S.E.D.
- (605) NEW FIBER REINFORCED HOLLOW PLANK TRELLIS INFILL
- (606) BUILT-IN DESK
- (607) (E) SOFFIT
- (608) (E) GLULAM BEAM. REMOVE (E) PAINT. SAND BLAST WOOD FINISH. PREP. FOR NEW CLEAR COAT SEALER
- (609) DUAL ROLLER SHADE AT MEETING ROOM, TYP.
- (610) MECH. VENT. PENETRATION, ROUTE MECH. DUCT TIGHT TO UNDERSIDE OF CEILING TO ROOF PENETRATION. ARCHITECT TO VERIFY ROUTING LOCATION PRIOR TO INSTALLATION
- (611) SKYLIGHT ABOVE
- (612) PROVIDE BLOCKING/SUPPORT FOR LIGHT FIXTURE
- (613) RELAMP (E) LIGHT FIXTURE, S.E.D.
- (614) REMOVE (E) PAINT AT (E) GLULAM BEAMS. SANDBLAST FINISH. PREPARE AREA FOR NEW CLEAR COAT SEALER, TYPICAL AT ALL EXPOSED ROOF STRUCTURE. V.I.F. FIELD FOR LOCATIONS.

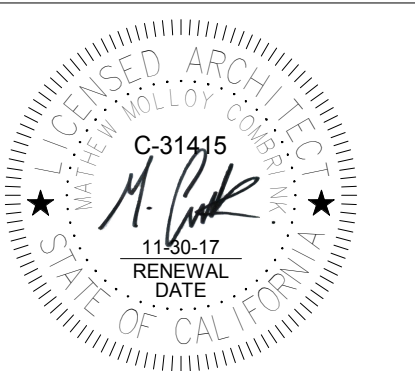
**RCP KEYNOTES** 1/4" = 1'-0"

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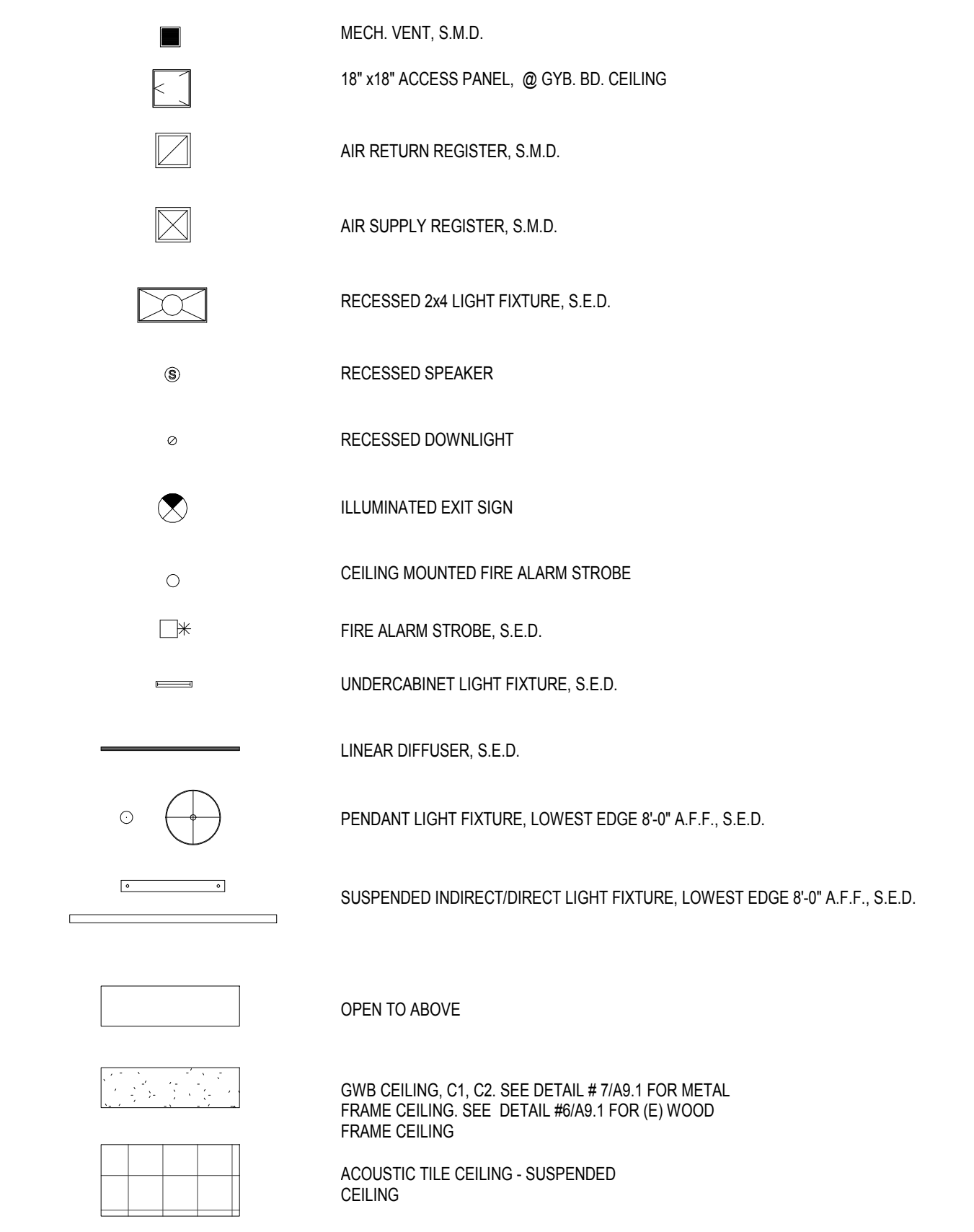
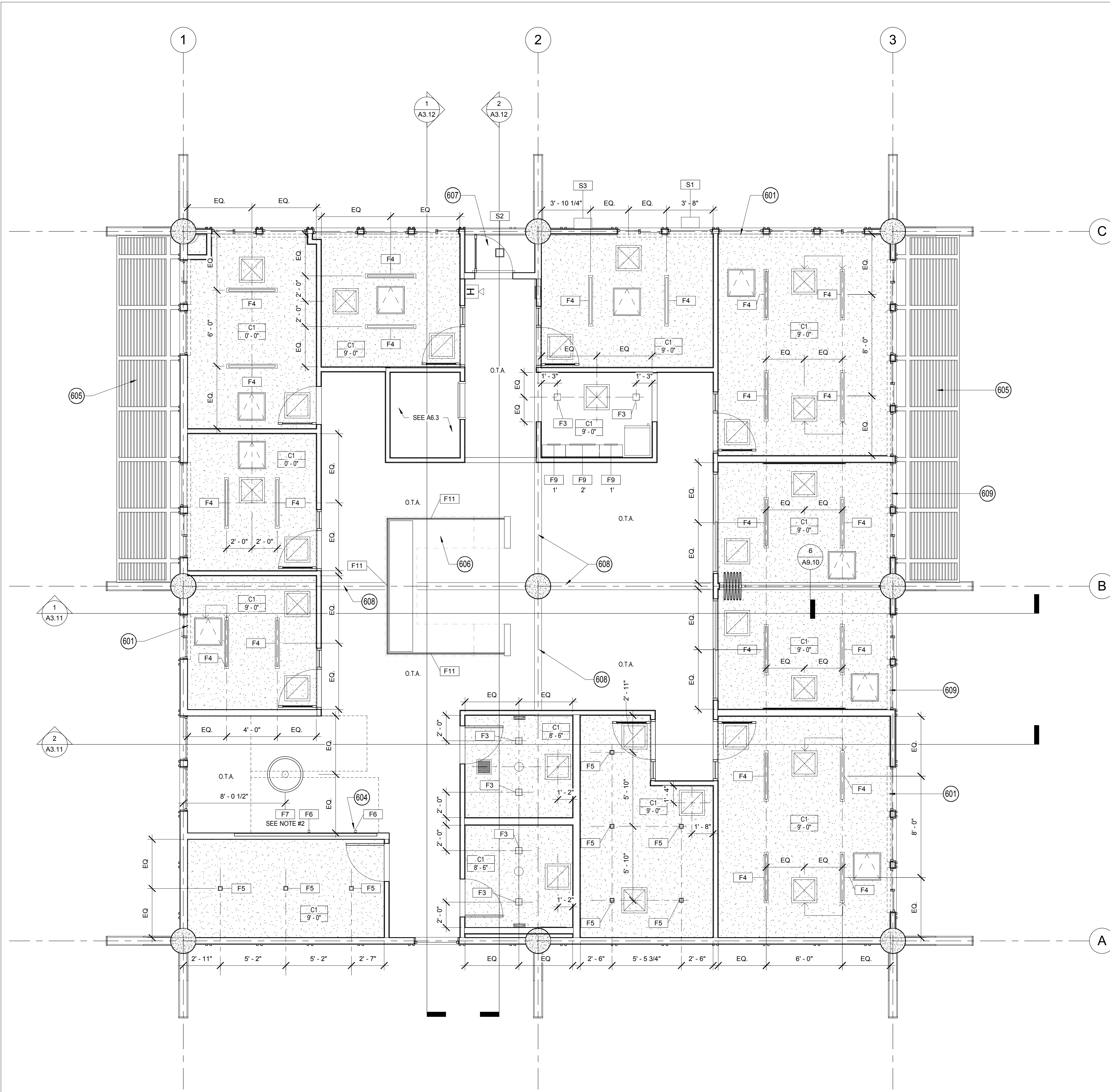
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**REFLECTED CEILING PLAN - FIRST FLOOR**



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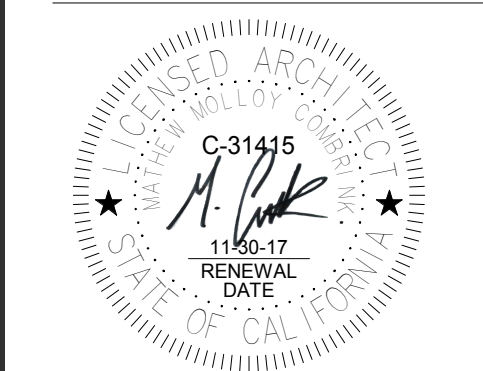
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- (604) STEP LIGHT, SEE BLDG SECTION FOR PLACEMENT REQ., S.E.D.
- (605) NEW FIBER REINFORCED HOLLOW PLANK TRELLIS INFILL
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- (607) (E) SOFFIT
- (608) (E) GLULAM BEAM. REMOVE (E) PAINT. SAND BLAST WOOD FINISH. PREP. FOR NEW CLEAR COAT SEALER
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- (613) RELAMP (E) LIGHT FIXTURE, S.E.D.
- (614) REMOVE (E) PAINT AT (E) GLULAM BEAMS. SANDBLAST FINISH. PREPARE AREA FOR NEW CLEAR COAT SEALER, TYPICAL AT ALL EXPOSED ROOF STRUCTURE. V.I.F. FIELD FOR LOCATIONS.

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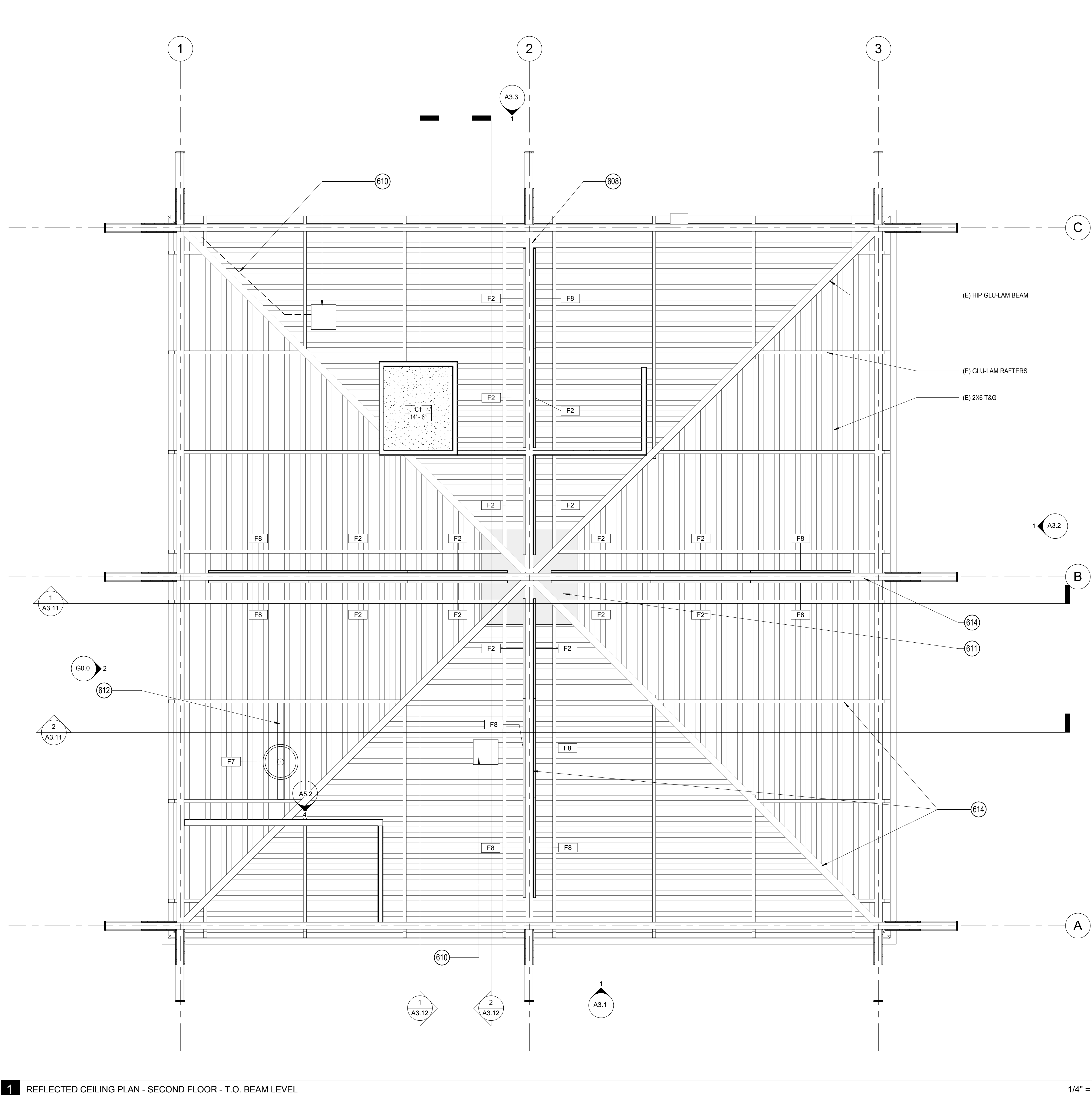
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




**CONSTRUCTION DOCUMENTS**

**REFLECTED CEILING PLAN - SECOND FLOOR - CEILING LEVEL**



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-  RECESSED SPEAKER
-  RECESSED DOWNLIGHT
-  ILLUMINATED EXIT SIGN
-  CEILING MOUNTED FIRE ALARM STROBE
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-  UNDERCABINET LIGHT FIXTURE, S.E.D.
-  LINEAR DIFFUSER, S.E.D.
-  PENDANT LIGHT FIXTURE, LOWEST EDGE 8'-0" A.F.F., S.E.D.
-  SUSPENDED INDIRECT/DIRECT LIGHT FIXTURE, LOWEST EDGE 8'-0" A.F.F., S.E.D.
-  OPEN TO ABOVE
-  GYB CEILING, C1, C2. SEE DETAIL # 7/A8.1 FOR METAL FRAME CEILING. SEE DETAIL #6/A8.1 FOR (E) WOOD FRAME CEILING
-  ACOUSTIC TILE CEILING - SUSPENDED CEILING

**RCP LEGEND** 1/8" = 1'-0"

1. WHERE POSSIBLE, ROUTE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION CONDUITS, DUCTS, CONNECTION LINES TIGHT TO UNDERSIDE OF CEILING AND ALONG EXISTING ROOF STRUCTURE. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION FOR APPROVAL.
2. LIGHT FIXTURE TYPE F7 SHALL BE MOUNTED WITH BOTTOM @ 7'-0" ABOVE SECOND FLOOR.
3. S.E.D. FOR LIGHTING SCHEDULE. FIXTURE CALLOUTS PROVIDED HERE ARE FOR COORDINATION.
4. FOR ACOUSTIC CEILING TILE DETAILS, SEE A3.4
5. SEE A3.5 AND ACOUSTIC REPORT FOR ACOUSTIC DETAILS

**RCP GENERAL NOTES** 1/4" = 1'-0"

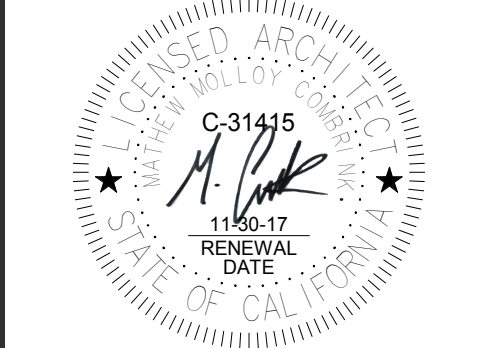
- (601) ROLLERSHADE, TYP.
- (602) DUCT SHAFT ABOVE, S.M.D FOR DUCTWORK, S.S.D FOR PENETRATION DETAIL
- (603) GYP. BD. CLNG. ON ACOUSTICAL HANGER, SEE DETAIL #10/A9.1
- (604) STEP LIGHT, SEE BLDG SECTION FOR PLACEMENT REQ., S.E.D.
- (605) NEW FIBER REINFORCED HOLLOW PLANK TRELLIS INFILL
- (606) BUILT-IN DESK
- (607) (E) SOFFIT
- (608) (E) GLULAM BEAM. REMOVE (E) PAINT. SAND BLAST WOOD FINISH. PREP. FOR NEW CLEAR COAT SEALER
- (609) DUAL ROLLER SHADE AT MEETING ROOM, TYP.
- (610) MECH. VENT. PENETRATION. ROUTE MECH. DUCT TIGHT TO UNDERSIDE OF CEILING TO ROOF PENETRATION. ARCHITECT TO VERIFY ROUTING LOCATION PRIOR TO INSTALLATION
- (611) SKYLIGHT ABOVE
- (612) PROVIDE BLOCKING/SUPPORT FOR LIGHT FIXTURE
- (613) RELAMP (E) LIGHT FIXTURE, S.E.D.
- (614) REMOVE (E) PAINT AT (E) GLULAM BEAMS. SANDBLAST FINISH. PREPARE AREA FOR NEW CLEAR COAT SEALER, TYPICAL AT ALL EXPOSED ROOF STRUCTURE. V.I.F. FIELD FOR LOCATIONS.

**RCP KEYNOTES** 1/4" = 1'-0"

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novato, california  
 project number: 16-148.01

scale: as noted  
 date: 03/10/2017

**CONSTRUCTION DOCUMENTS**

**REFLECTED CEILING PLAN - SECOND FLOOR - BEAM LEVEL**

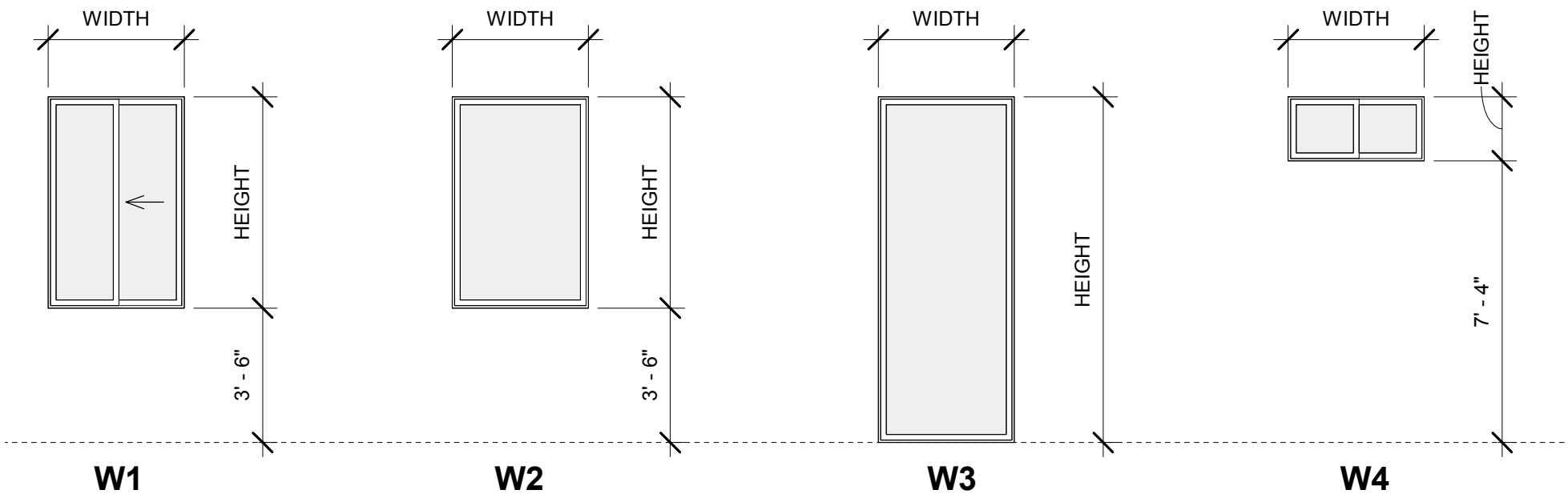


# WINDOW

# DOOR

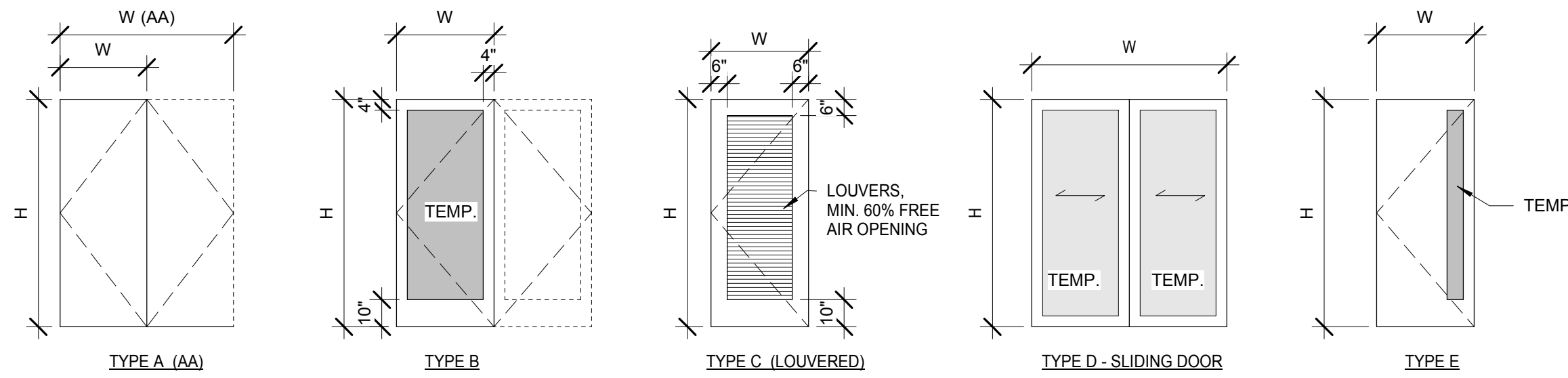
WINDOW SCHEDULE						
Type Mark	Width	Height	Sill Height	HEAD	JAMB	SILL
W1	3' - 6 1/2"	5' - 6"	3' - 6"	4A8.1	8/A8.1	4/A8.1
W2	3' - 6 1/2"	5' - 6"	3' - 6"	4A8.1	8/A8.1	4/A8.1
W3	3' - 6 1/2"	9' - 0"	0' - 0"	4A8.1	8/A8.1	4/A8.1
W4	3' - 6 1/2"	1' - 8"	7' - 4"	4A8.1	8/A8.1	4/A8.1

GLAZING NOTE:  
 1. REMOVE (E) SOLID TRANSOM PANEL AND REPLACE WITH 1/2" GLASS TEMP. GLASS AT DOORS E100A, 100B, ES1A, AND 200



WINDOW LEGEND

DOOR NO.	ROOM #	ROOM NAME	TYPE	DOOR			FRAME		DETAILS			HARDWARE SET	FIRE RATING	HARDWARE COMMENT	
				WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	HEAD				JAMB
G1	M1	BACKUP GENERATOR	AA	10' - 0"	13' - 0"	3"									
G2	M2	MECHANICAL ENCLOSURE	AA	9' - 0"	6' - 0"	3"									
E100A	100	CORRIDOR	E	3' - 0"	7' - 0"	1 3/4"	(E) WD	(E) PTD	(E) HM	(E) PTD	(E)	(E)	(E)	4	N/A
E100B	100	CORRIDOR	E	3' - 0"	7' - 0"	1 3/4"	(E) WD	(E) PTD	(E) HM	(E) PTD	(E)	(E)	(E)	4	N/A
E102A	102	CAMPUS POLICE	A	3' - 0"	7' - 0"	1 3/4"	(E) WD	(E) PTD	(E) HM	(E) PTD	(E)	(E)	(E)	5	N/A
E101	101	FILE STORAGE	A	3' - 0"	7' - 0"	1 3/4"	(E) WD	(E) PTD	(E) HM	(E) PTD	(E)	(E)	(E)	5	N/A
E108	108	UNISEX	A	3' - 0"	7' - 0"	1 3/4"	(E) WD	(E) PTD	(E) HM	(E) PTD	(E)	(E)	(E)	5.1	N/A
E109	109	UNISEX	A	3' - 0"	7' - 0"	1 3/4"	(E) WD	(E) PTD	(E) HM	(E) PTD	(E)	(E)	(E)	5.1	N/A
E110	110	VICE PRESIDENT OFFICE	A	3' - 0"	7' - 0"	1 3/4"	(E) WD	(E) PTD	(E) HM	(E) PTD	(E)	(E)	(E)	5	N/A
ES1A	S1	STAIR 1	E	3' - 0"	7' - 0"	1 3/4"	(E) WD	(E) PTD	(E) HM	(E) PTD	(E)	(E)	(E)	5	N/A
S1	S1	STAIR 1	A	3' - 0"	7' - 0"	1 3/4"	WD	PTD	HM	PTD	(E)	(E)	(E)	6.1	N/A
112	112	CUSTODIAN	C	3' - 0"	7' - 0"	1 3/4"	HM	PTD	HM	PTD	3A9.1	2/A9.11	1/A9.11	6.1	N/A
215	215	HALLWAY	B	3' - 0"	7' - 0"	1 3/4"	WD	PTD	(E) HM	(E) PTD	3A9.1(SIM)	2/A9.11 (SIM)	1/A9.11 (SIM)	6.2	N/A
201	201	OFFICE	B	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	1	N/A
202	202	OFFICE	B	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	1	N/A
203	203	OFFICE	B	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	1	N/A
204	204	OFFICE	B	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	1	N/A
205	205	OFFICE	B	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	1	N/A
206	206	OFFICE	B	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	1	N/A
208	208	OFFICE	B	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	1	N/A
209	209	FILE ROOM	B	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	2	N/A
210	210	UNISEX	A	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	3	N/A
211	211	UNISEX	A	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	3	N/A
213	213	ELECTRICAL RM.	A	3' - 0"	7' - 0"	1 3/4"	WD	FAC	SF	AL	7/A9.11	6/A9.11	11/A9.11	2	N/A



DOOR LEGEND

### ABBREVIATIONS

- AL CLEAR ANNOZIDED ALUMINUM
- CD COIL DOOR
- CW CURTAIN WALL
- FAC FACTORY FINISH
- GLV GALVANIZED
- GL GLASS
- HI HIGH IMPACT DOORS (TRAFFIC DOORS)
- HM HOLLOW METAL
- MFR MANUFACTURER
- PGW PAINT GRADE WOOD
- PTD PAINTED
- SF STOREFRONT
- SS STAINLESS STEEL
- ST STEEL
- STN STAINED
- WD SOLID CORE WOOD
- WV WOOD VENEER, WD1

### GENERAL NOTES

1. SEE FLOOR PLANS FOR DOOR SYMBOL REFERENCES.
2. ALL EXTERIOR DOORS TO HAVE METAL THRESHOLDS, EXCEPT GARAGE DOOR.
3. ALL HOLLOW METAL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT SURFACE.
4. A PERMANENT LABEL SHALL IDENTIFY REQUIRED SAFETY GLAZING (I.E. TEMPERED) INSTALLED IN THE FOLLOWING LOCATIONS: A) WITHIN 24" OF EITHER SIDE OF ANY DOOR; (B) GREATER THAN 9 SQ. FT. IN AREA WITH BOTTOM EDGES LESS THAN 18" ABOVE (AND HORIZONTALLY WITHIN 36") OF A WALKING SURFACE; (C) LITES IN DOOR PANELS. CBC 2406.3 AND 2406.4
5. ALL WOOD DOORS SHALL BE SOLID CORE PER CBC 708A.3, PAINT GRADE.
6. ALL WALL MOUNTED DOOR STOPS SHALL BE O.F.C.I.

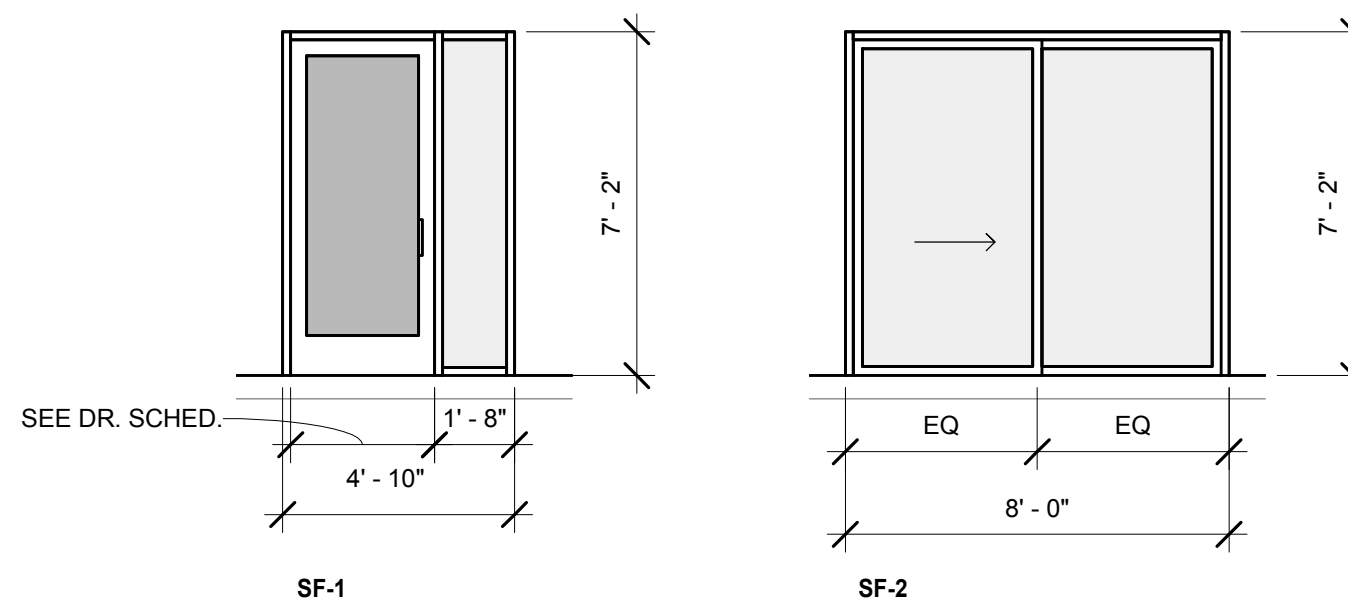
### HARDWARE NOTES

1. REMOVE (E) DOOR STOP
2. REMOVE (E) KICKPLATE
3. NOT USED
4. FILL GAP BETWEEN KICKPLATE AND GLAZING GAP WITH CLEAR FILLER STRIP
5. NOT USED
6. REMOVE (E) DOOR CLOSER

### DOOR GENERAL NOTES

STOREFRONT SCHEDULE				
TYPE	ROOM	HEAD DETAIL	JAMB DETAIL	SILL DETAIL
SF-1	201	10 / A9.11	5 / A9.11	9 / A9.11
SF-1	202	10 / A9.11	5 / A9.11	9 / A9.11
SF-1	204	10 / A9.11	5 / A9.11	9 / A9.11
SF-1	205	10 / A9.11	5 / A9.11	9 / A9.11
SF-1	206	10 / A9.11	5 / A9.11	9 / A9.11
SF-2	207A	10 / A9.11	5 / A9.11	9 / A9.11
SF-2	207B	10 / A9.11	5 / A9.11	9 / A9.11
SF-1	208	10 / A9.11	5 / A9.11	9 / A9.11
SF-1	209	10 / A9.11	5 / A9.11	9 / A9.11

STOREFRONT NOTES:  
 SEE DOOR SCHEDULE FOR ALL DOORS WITH STOREFRONT FRAMES.



STOREFRONT LEGEND

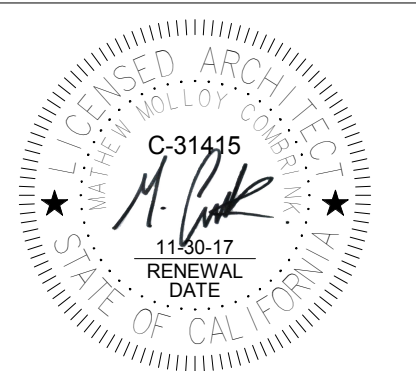
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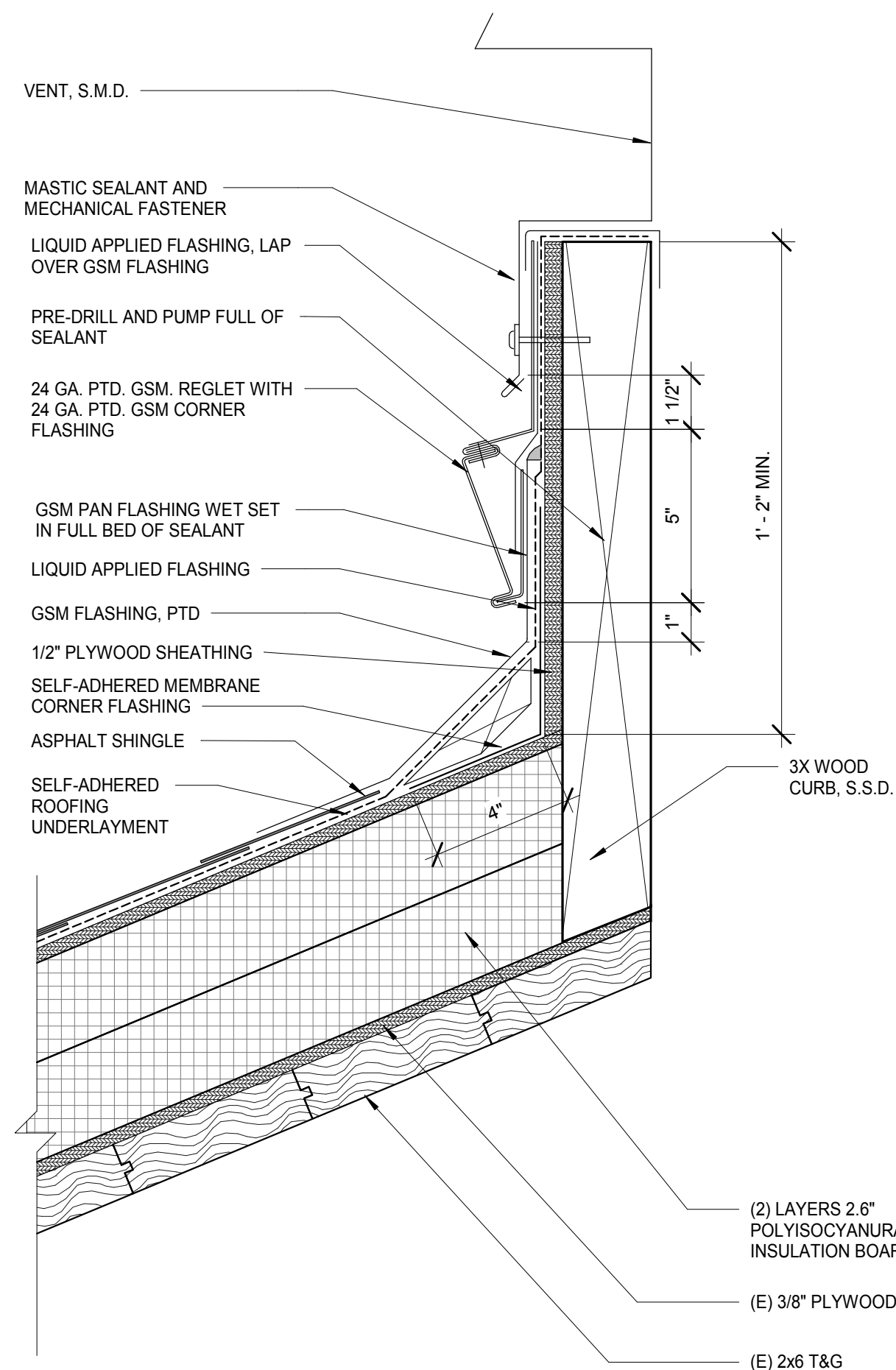
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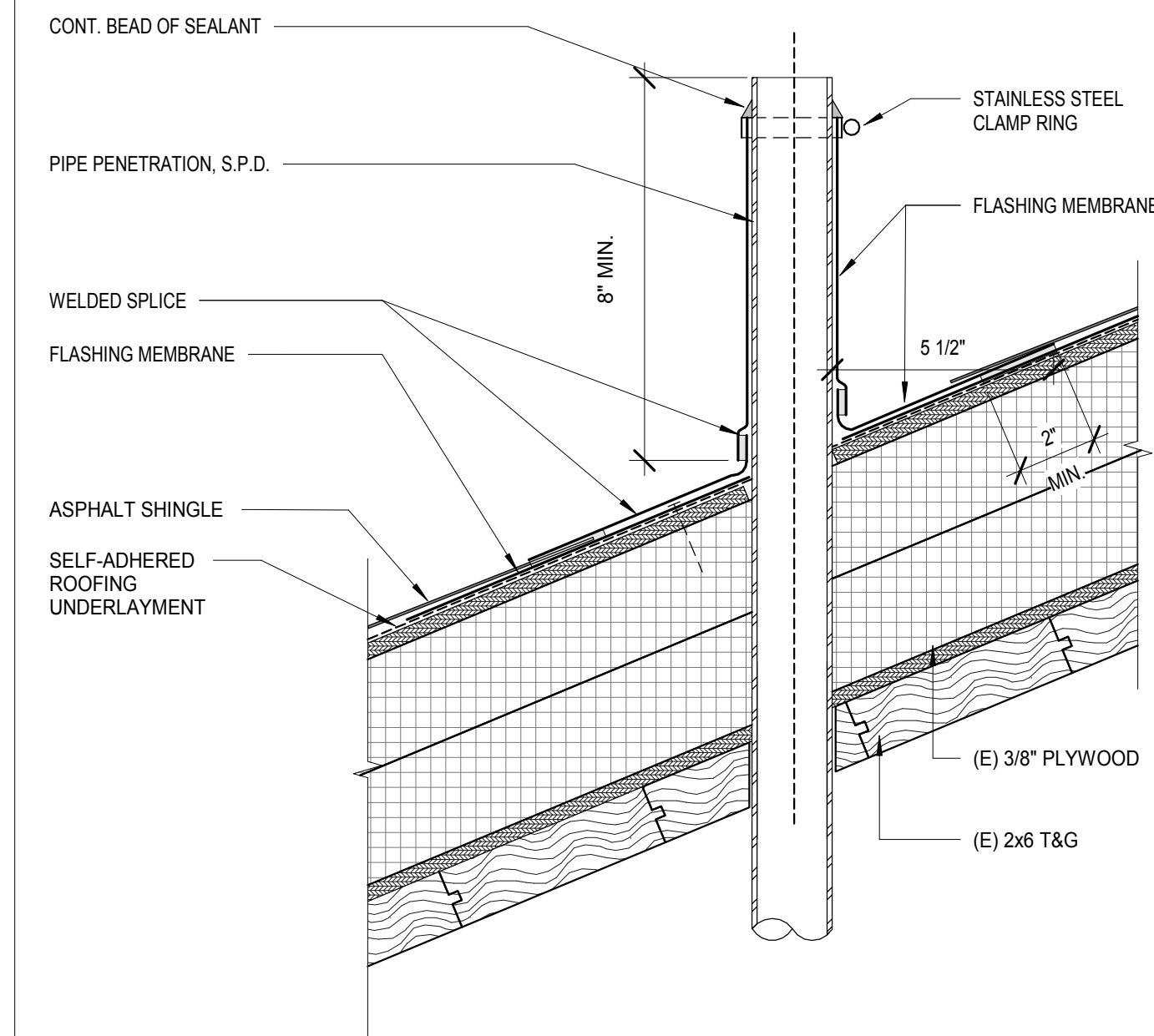
CONSTRUCTION DOCUMENTS  
 DOOR, WINDOW AND STOREFRONT SCHEDULE



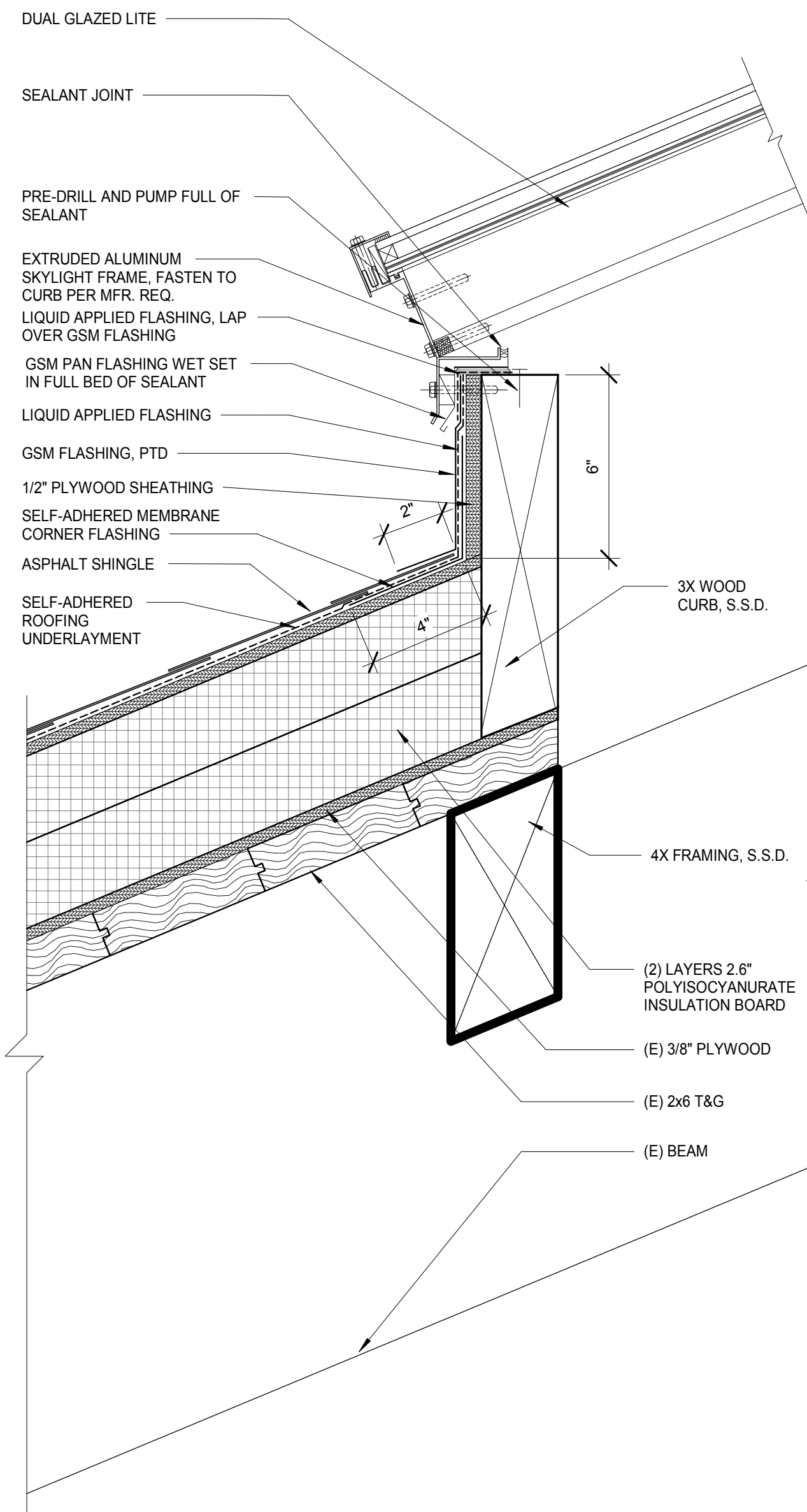
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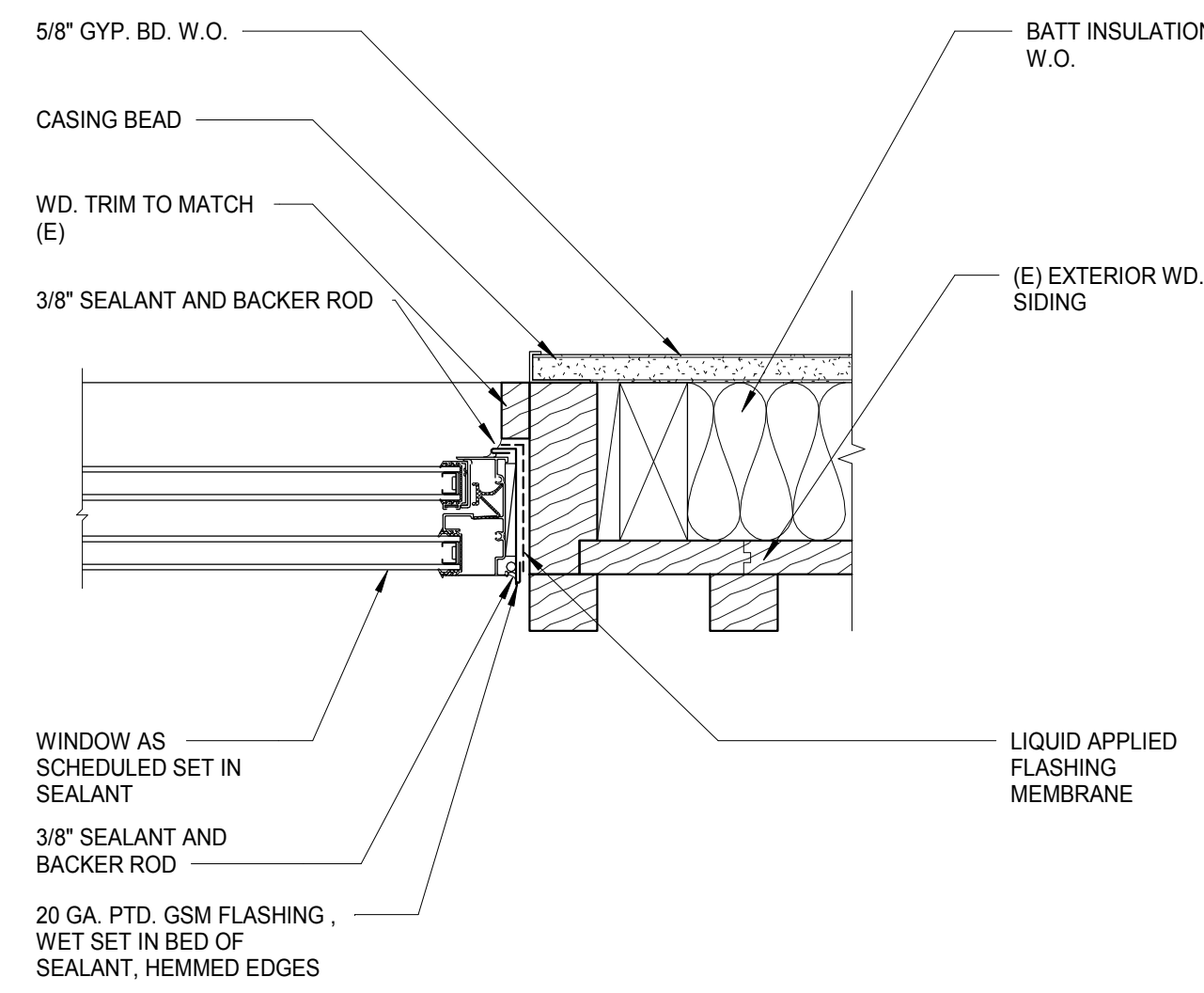
11 TYP. EXHAUST VENT PENETRATION 3" = 1'-0"



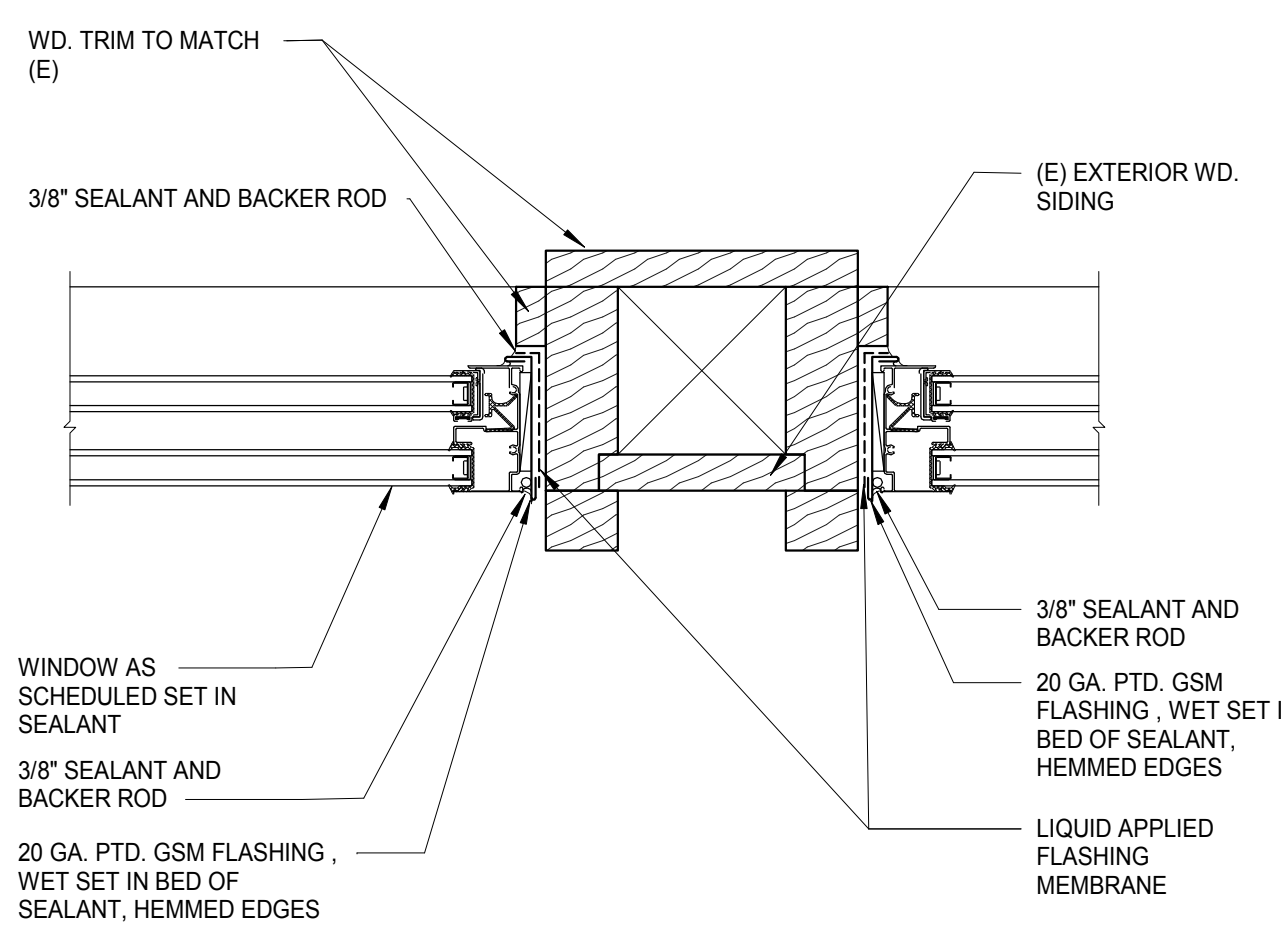
10 TYP. PIPE PENETRATION 3" = 1'-0"



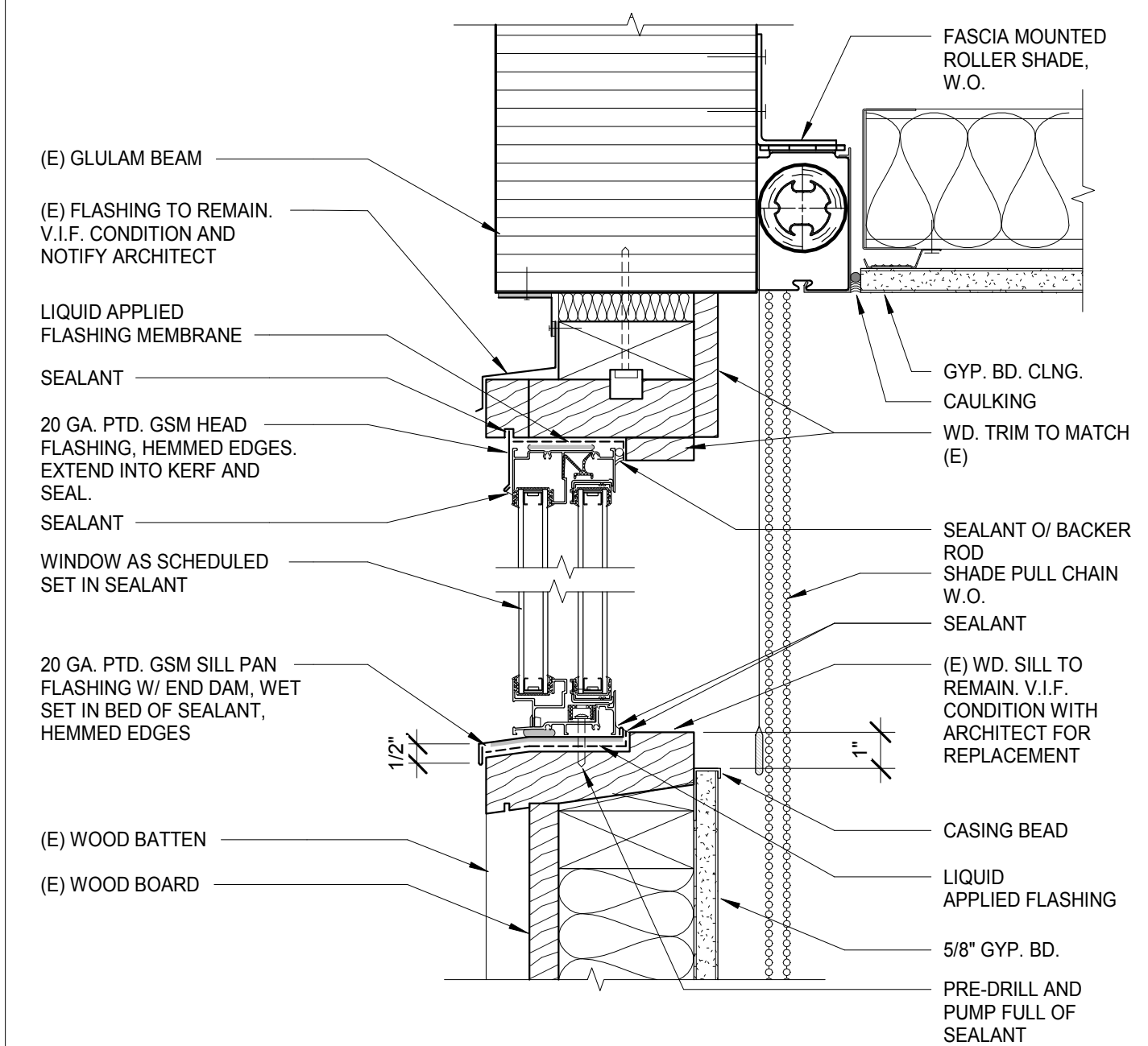
7 SKYLIGHT CURB 3" = 1'-0"



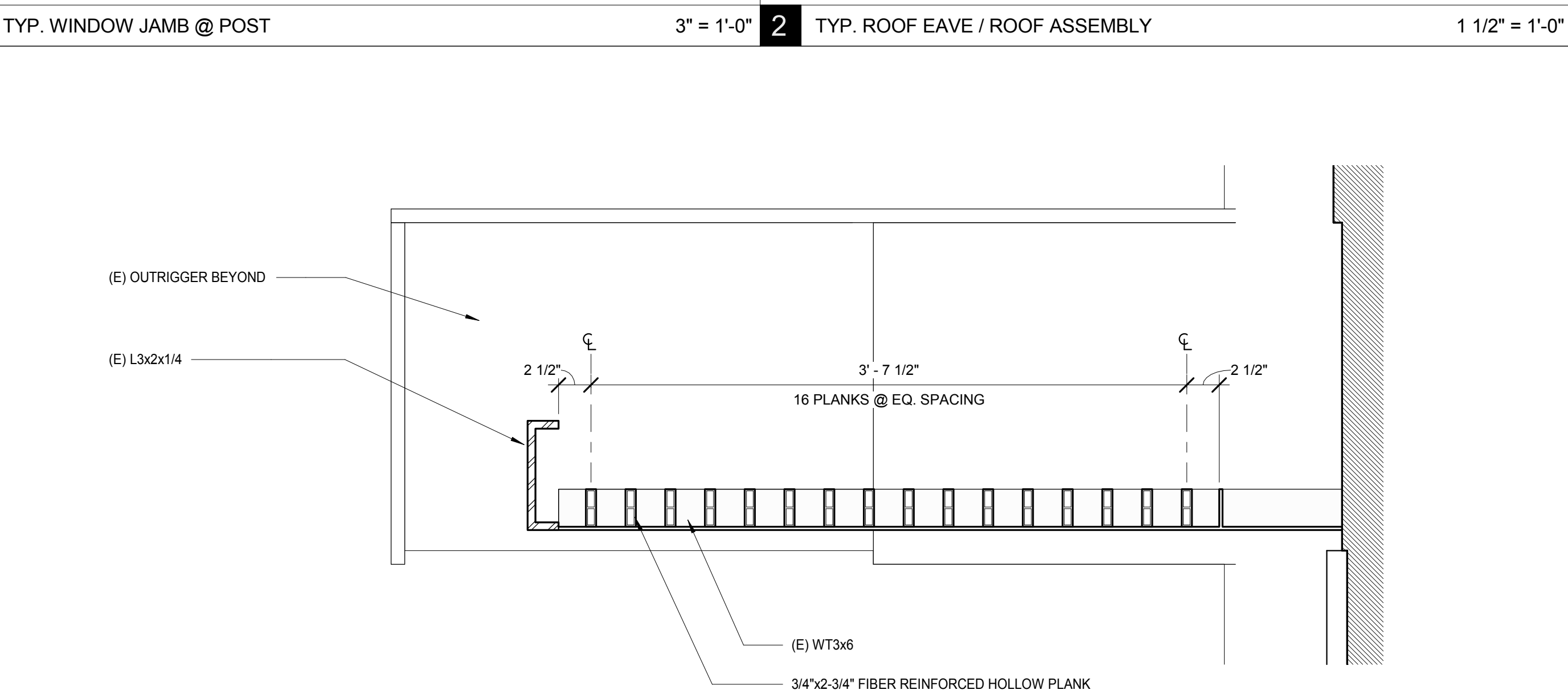
6 TYP. WINDOW JAMB 3" = 1'-0"



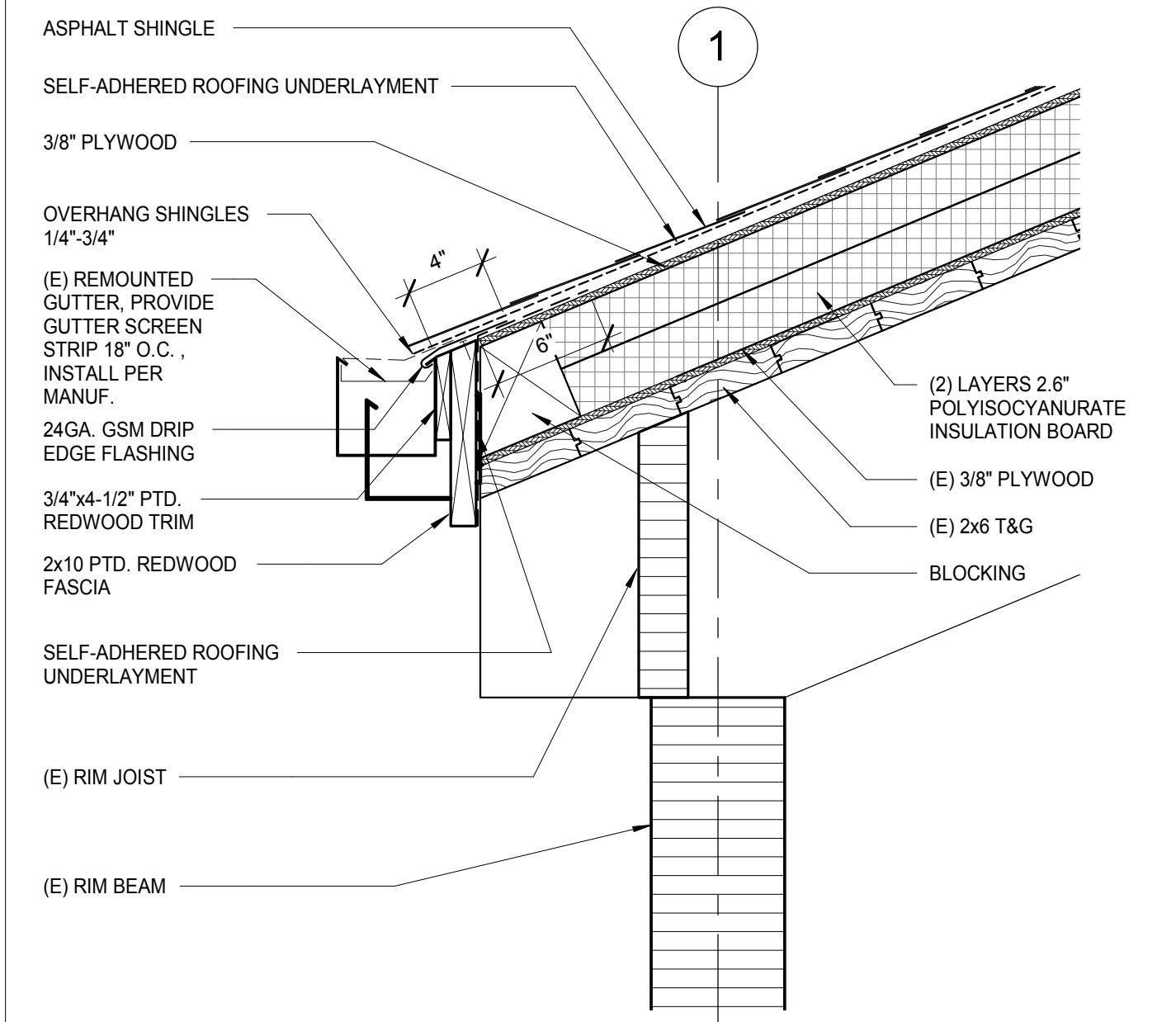
5 TYP. WINDOW JAMB @ POST 3" = 1'-0"



3 TYP. WINDOW HEAD & SILL 3" = 1'-0"



1 NEW TRELLIS FIBER REINFORCED HOLLOW PLANK INFILL 1 1/2" = 1'-0"



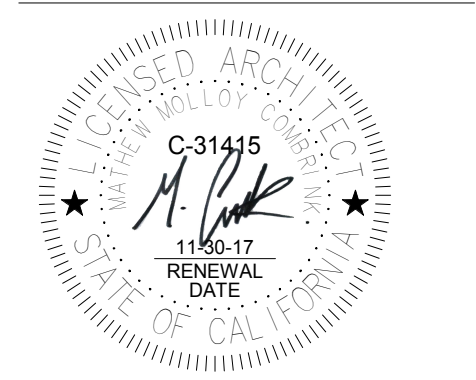
2 TYP. ROOF EAVE / ROOF ASSEMBLY 1 1/2" = 1'-0"

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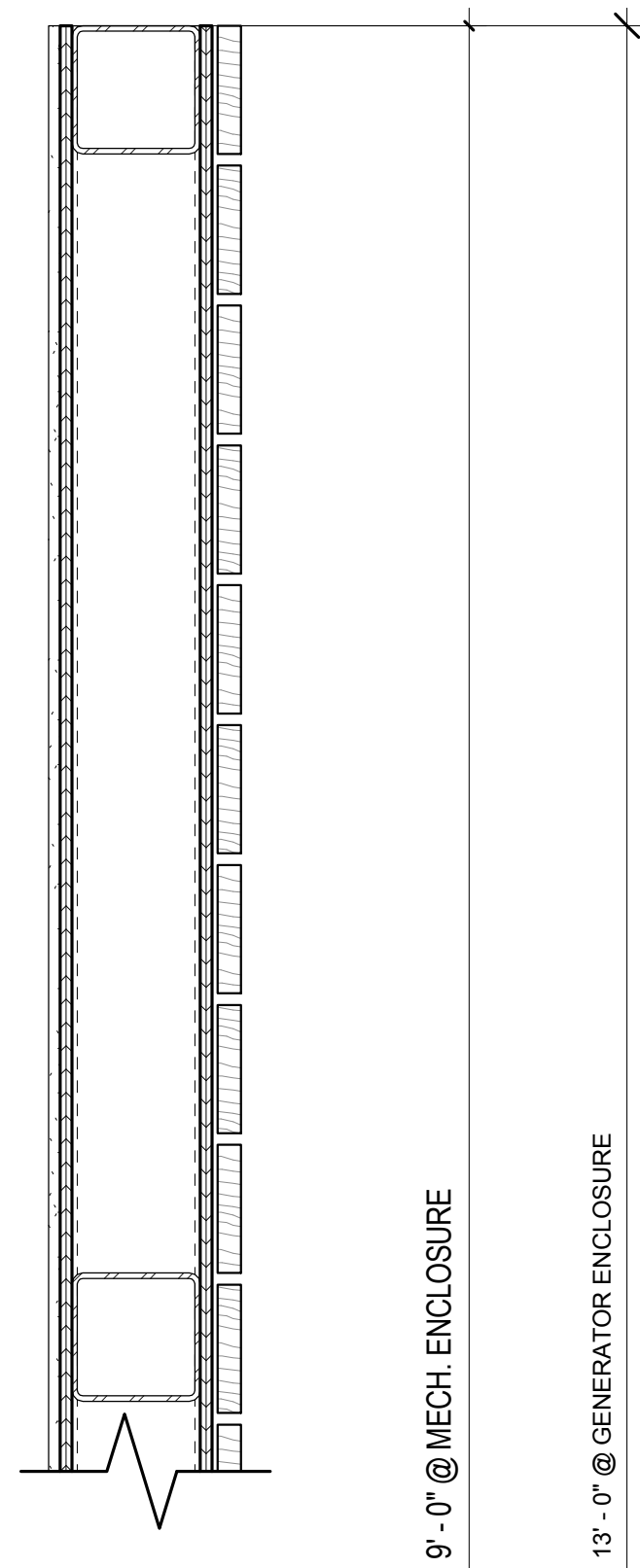
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CONSTRUCTION  
DOCUMENTS  
EXTERIOR  
DETAILS



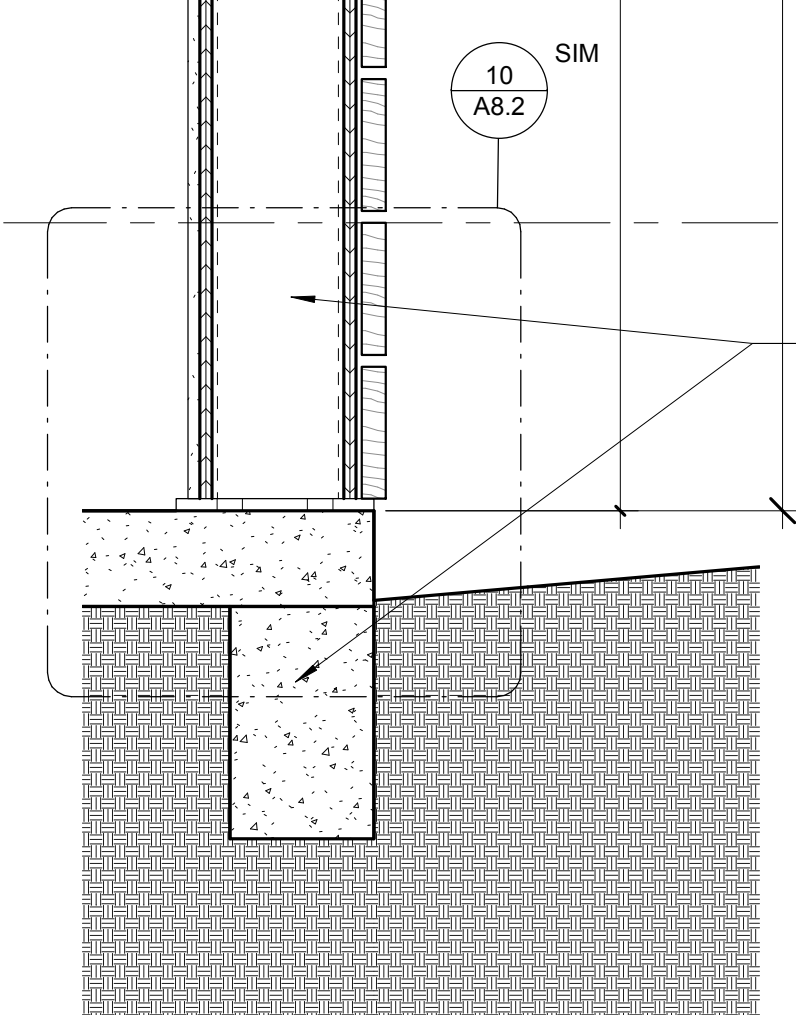
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RESYSTA COMPOSITE SIDING

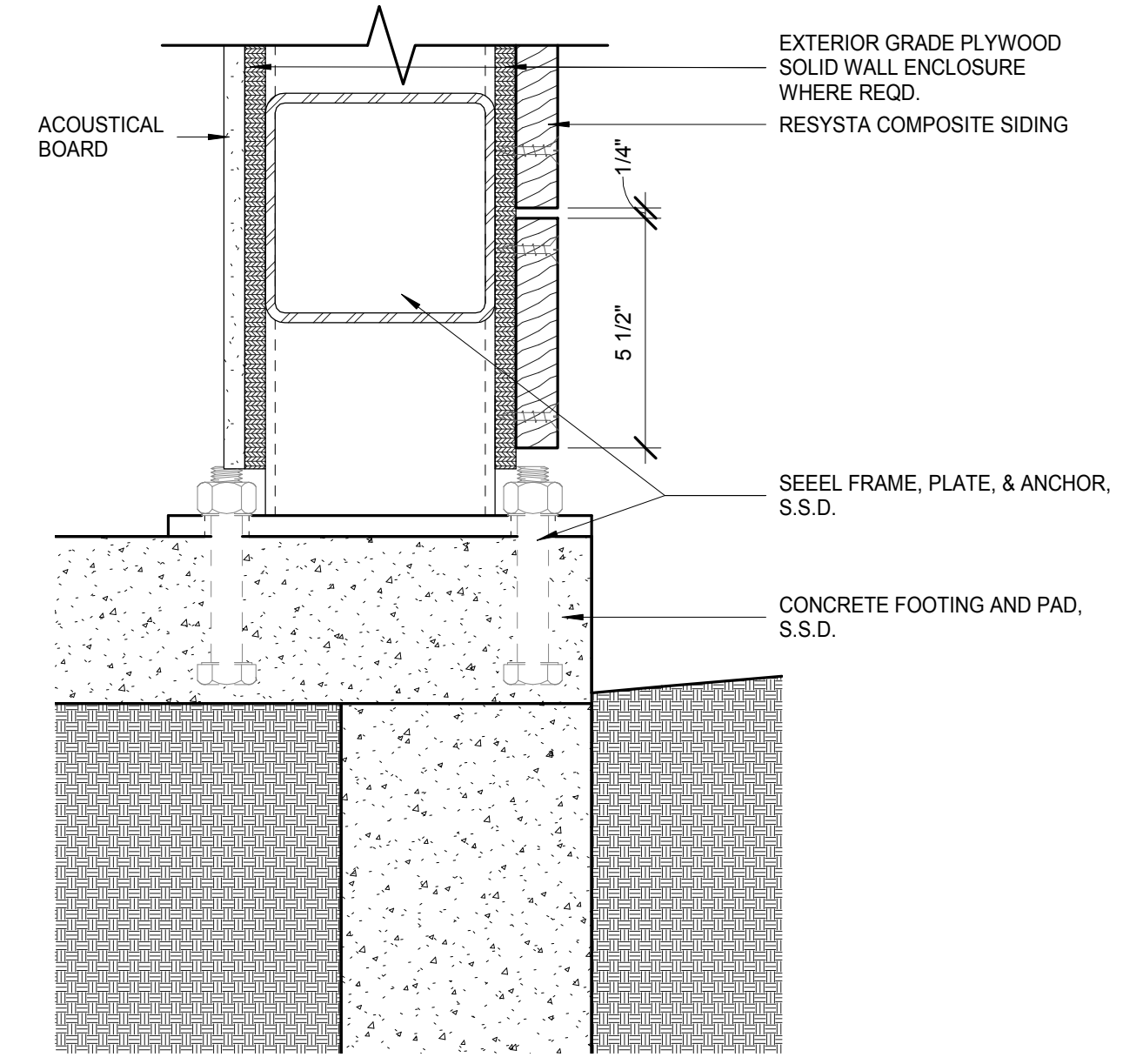
LEVEL 1  
0' - 0"

STEEL FRAME ENCLOSURE AND  
AND CONCRETE PAD, S.S.D.



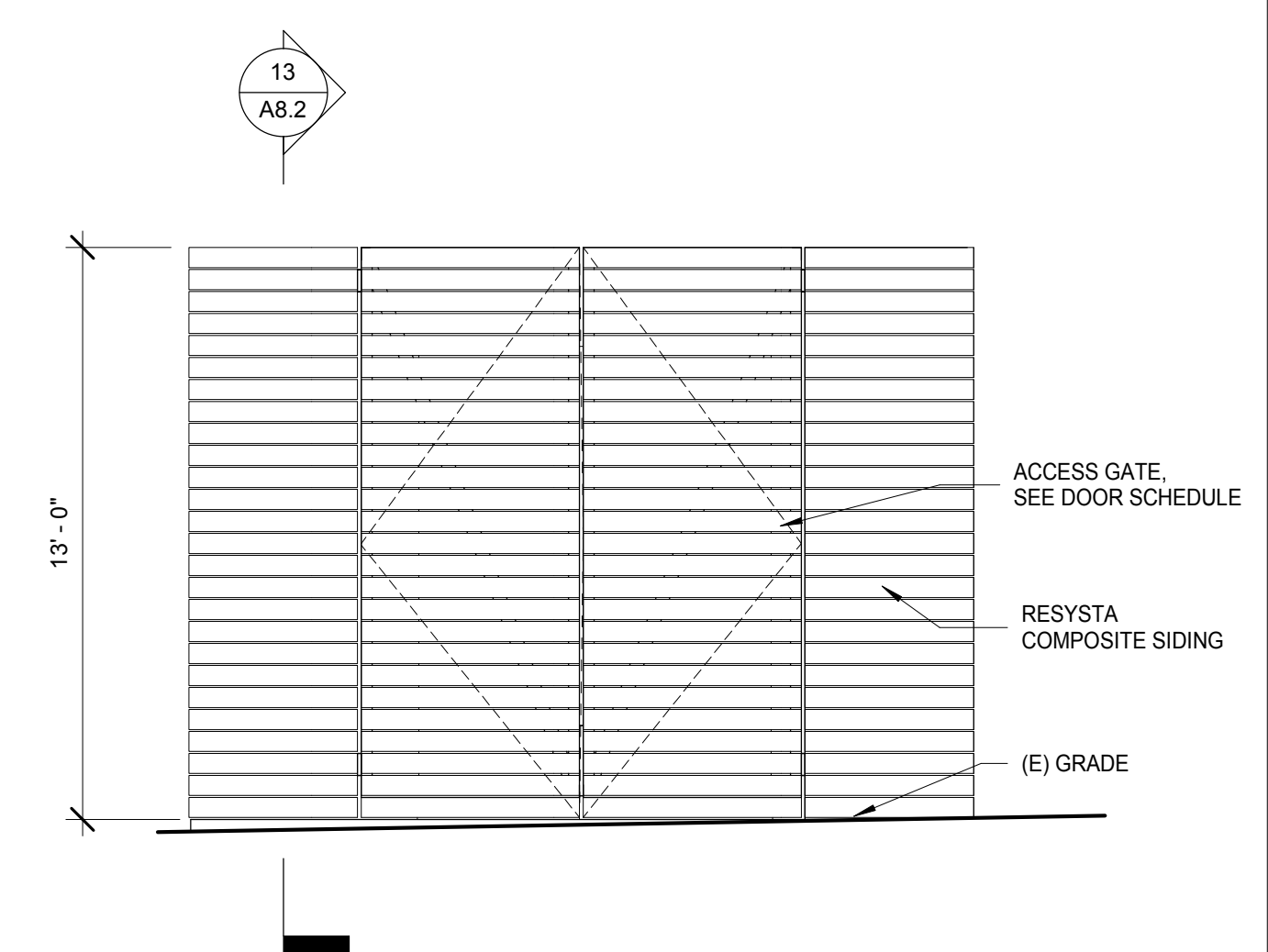
13 MECH. ENCLOSURE SECTION

1 1/2" = 1'-0"



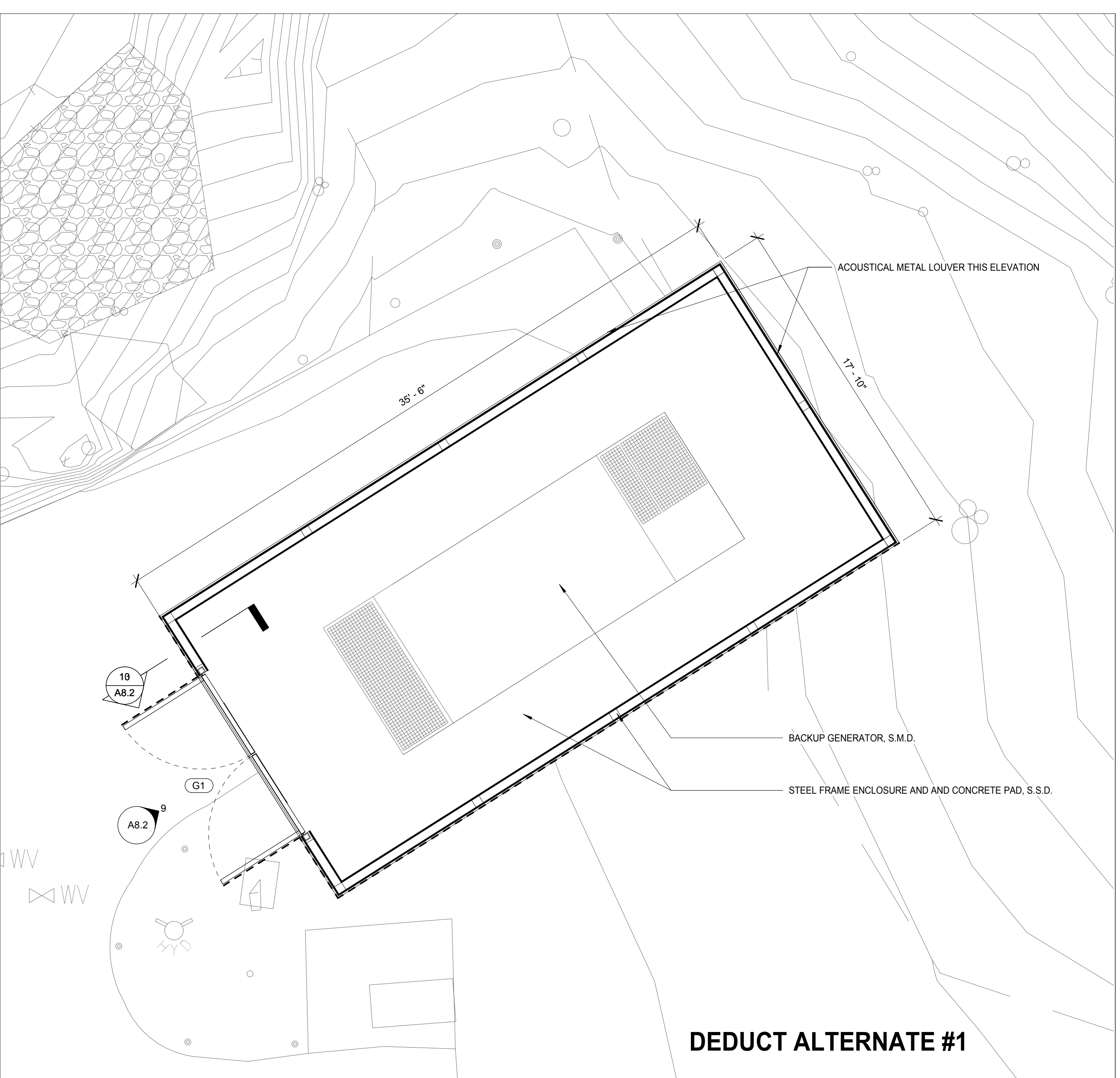
10 MECH. ENCLOSURE DETAIL

3" = 1'-0"



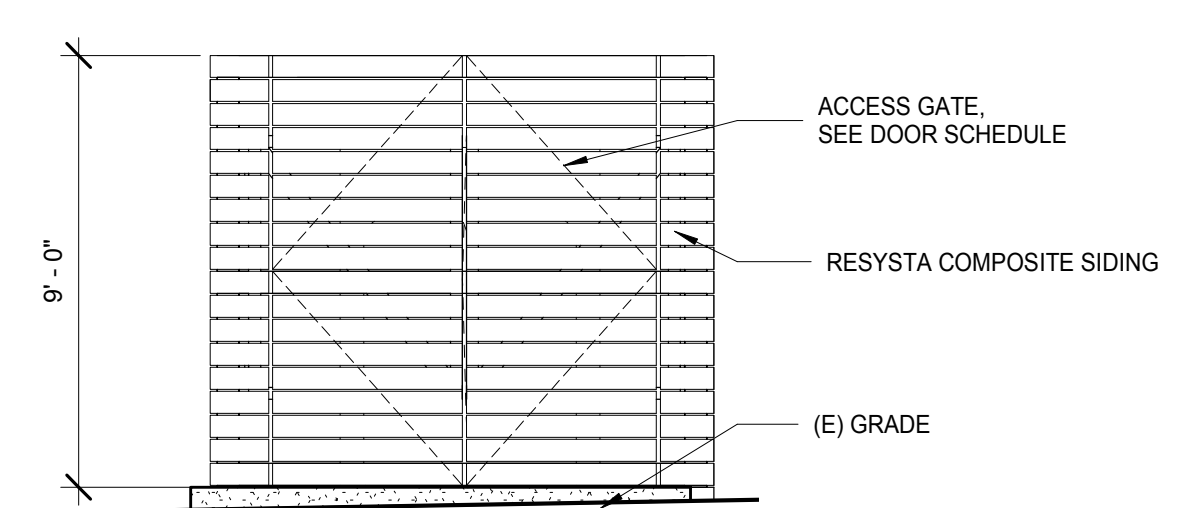
9 BACKUP GENERATOR PAD/ENCLOSURE ELEVATION

1/4" = 1'-0"



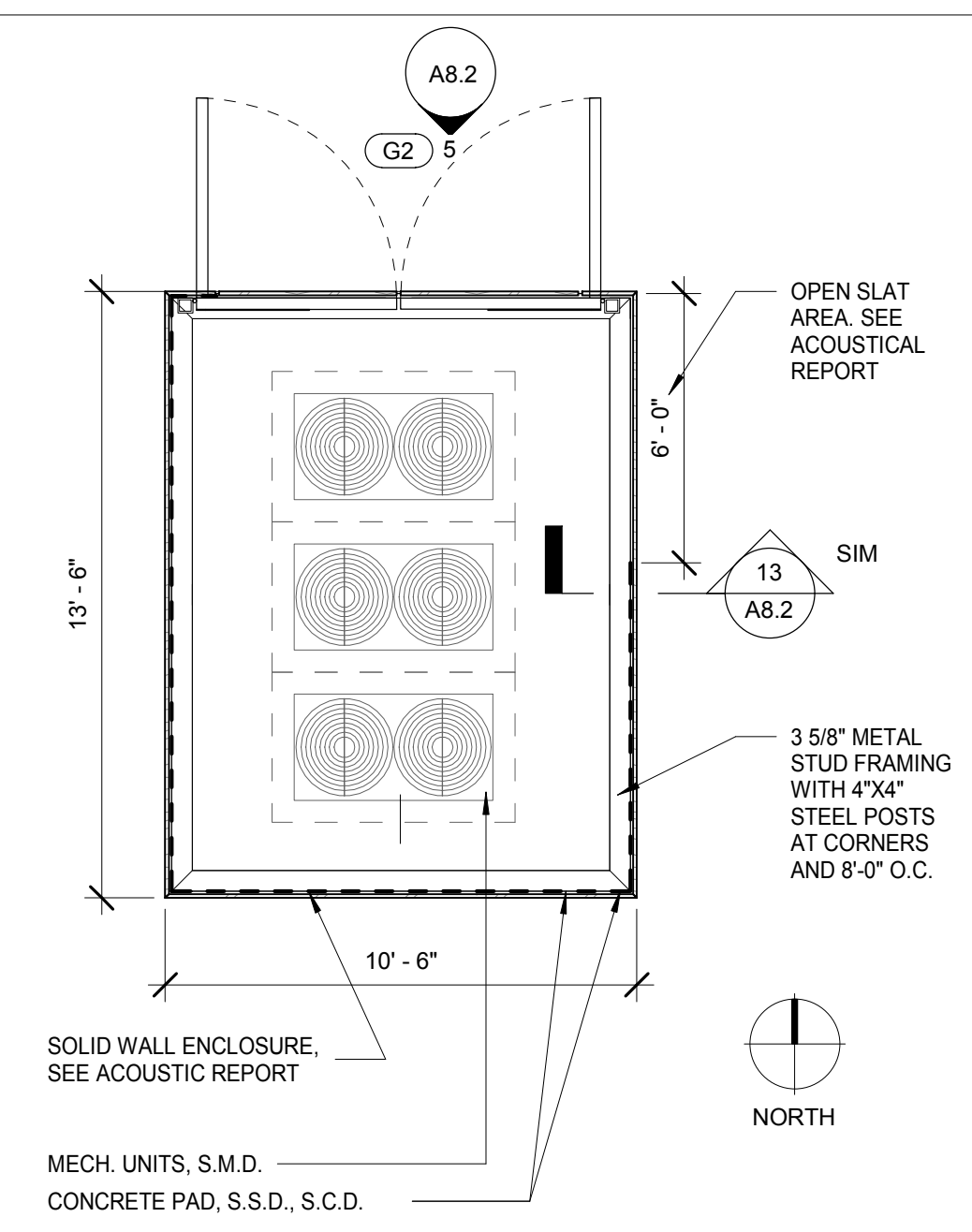
6 BACKUP GENERATOR PAD/ENCLOSURE ENLARGED PLAN

1/4" = 1'-0"



5 MECHANICAL PAD/ENCLOSURE ELEVATION

1/4" = 1'-0"



1 MECHANICAL PAD/ENCLOSURE ENLARGED PLAN

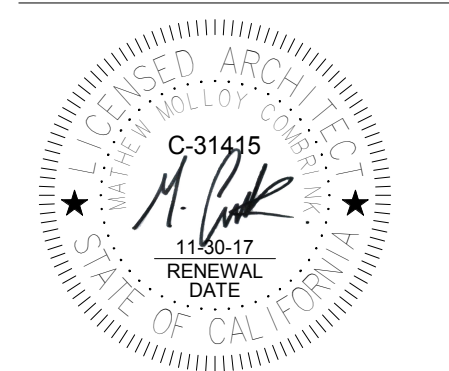
1/4" = 1'-0"

DEDUCT ALTERNATE #1

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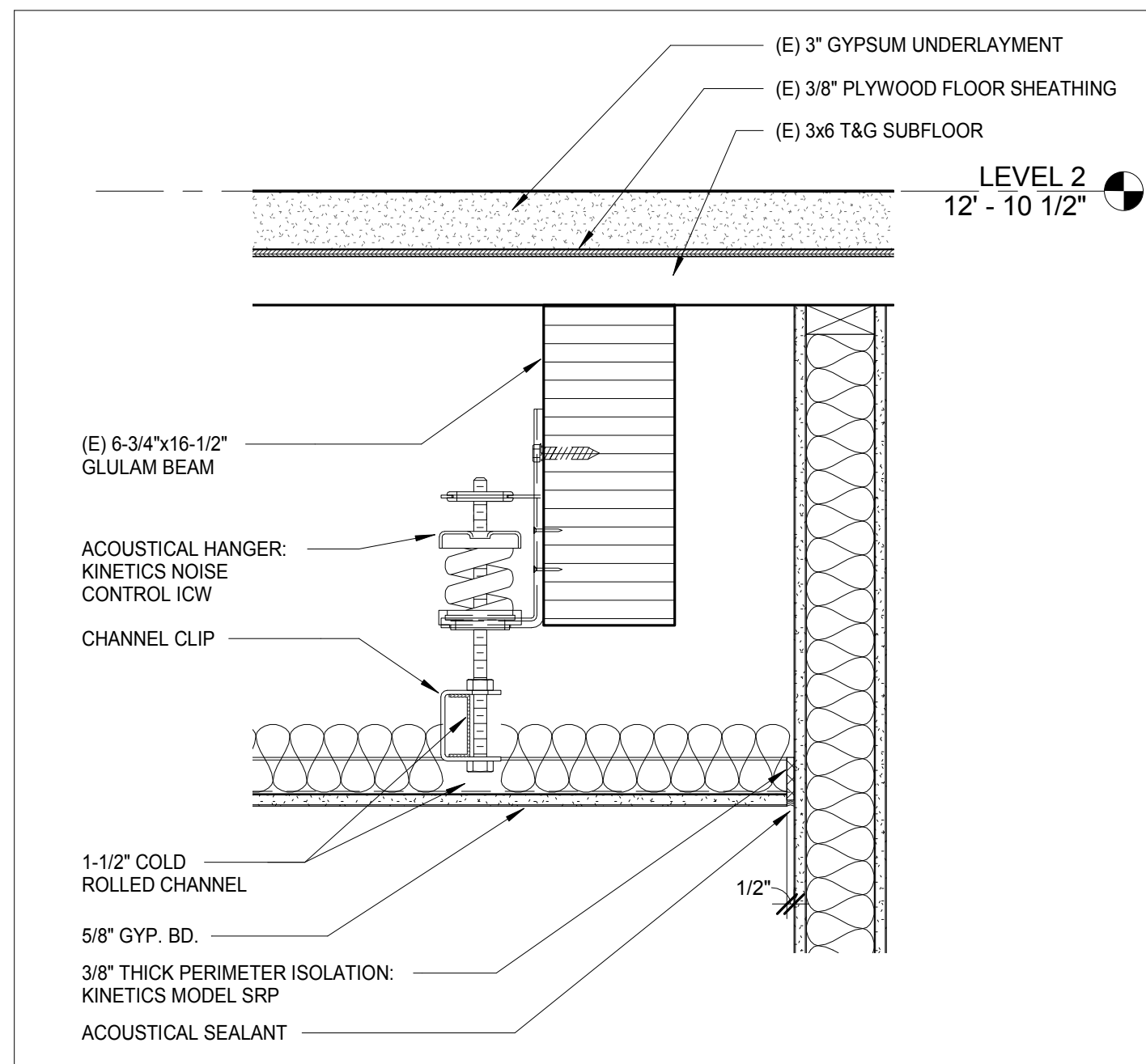
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DOCUMENTS  
EXTERIOR  
DETAILS - MECH.  
ENCLOSURES

A8.2

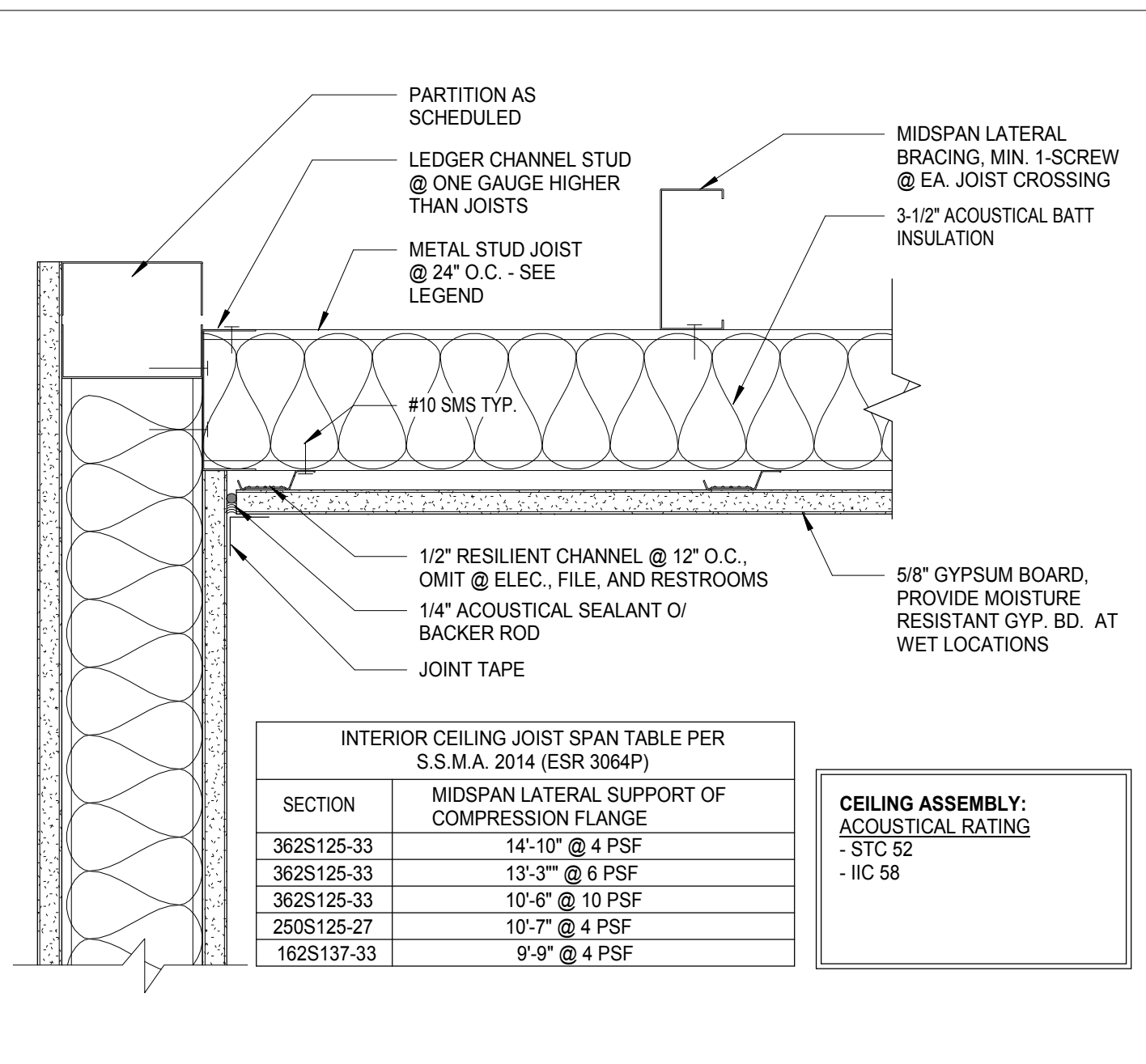
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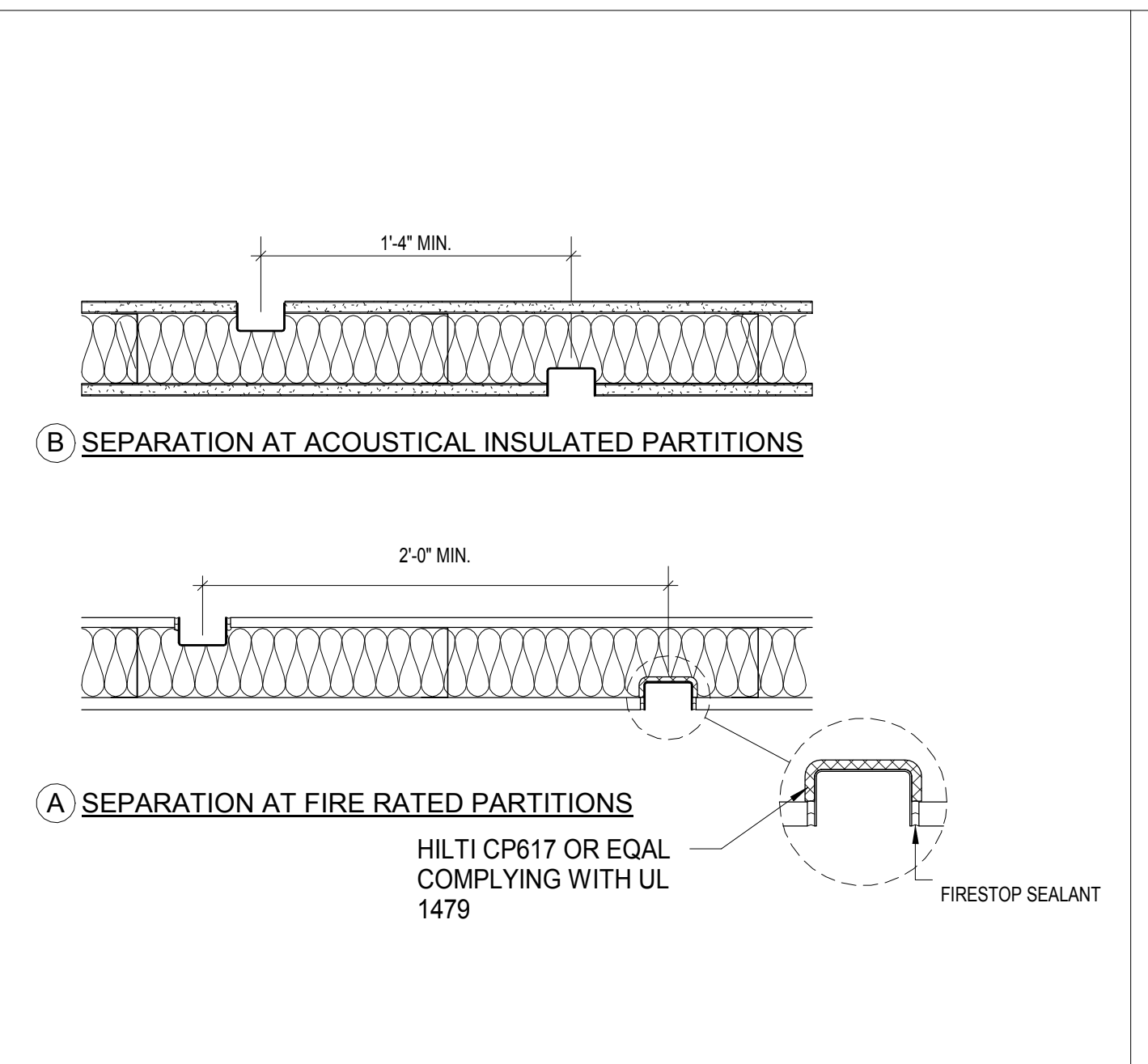
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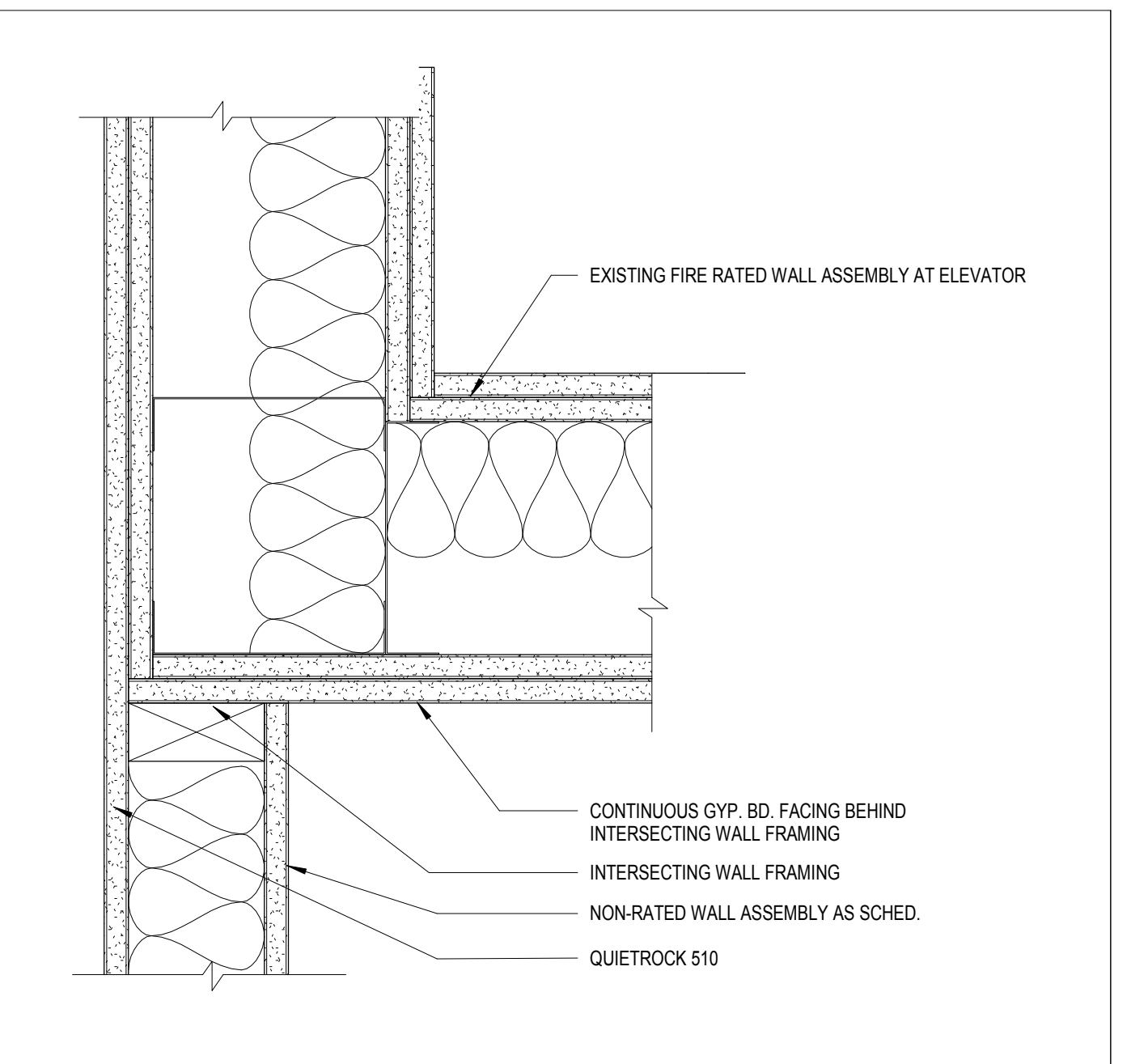
**10** FLR.-CLNG. ASSM. W/ ACOUSTICAL HANGER 1 1/2" = 1'-0"



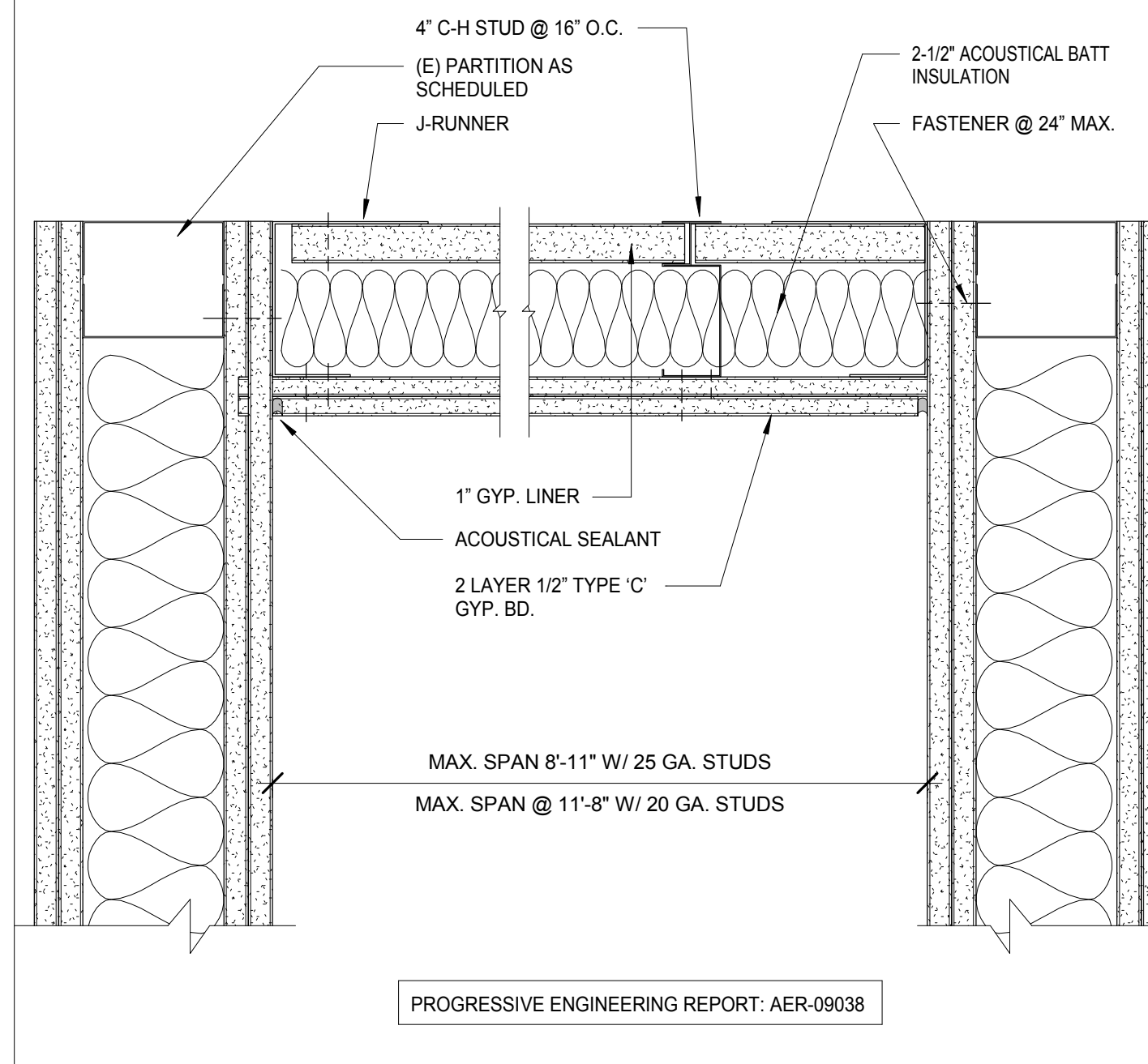
**7** CEILING FRAMING @ NON RATED WALL 3" = 1'-0"



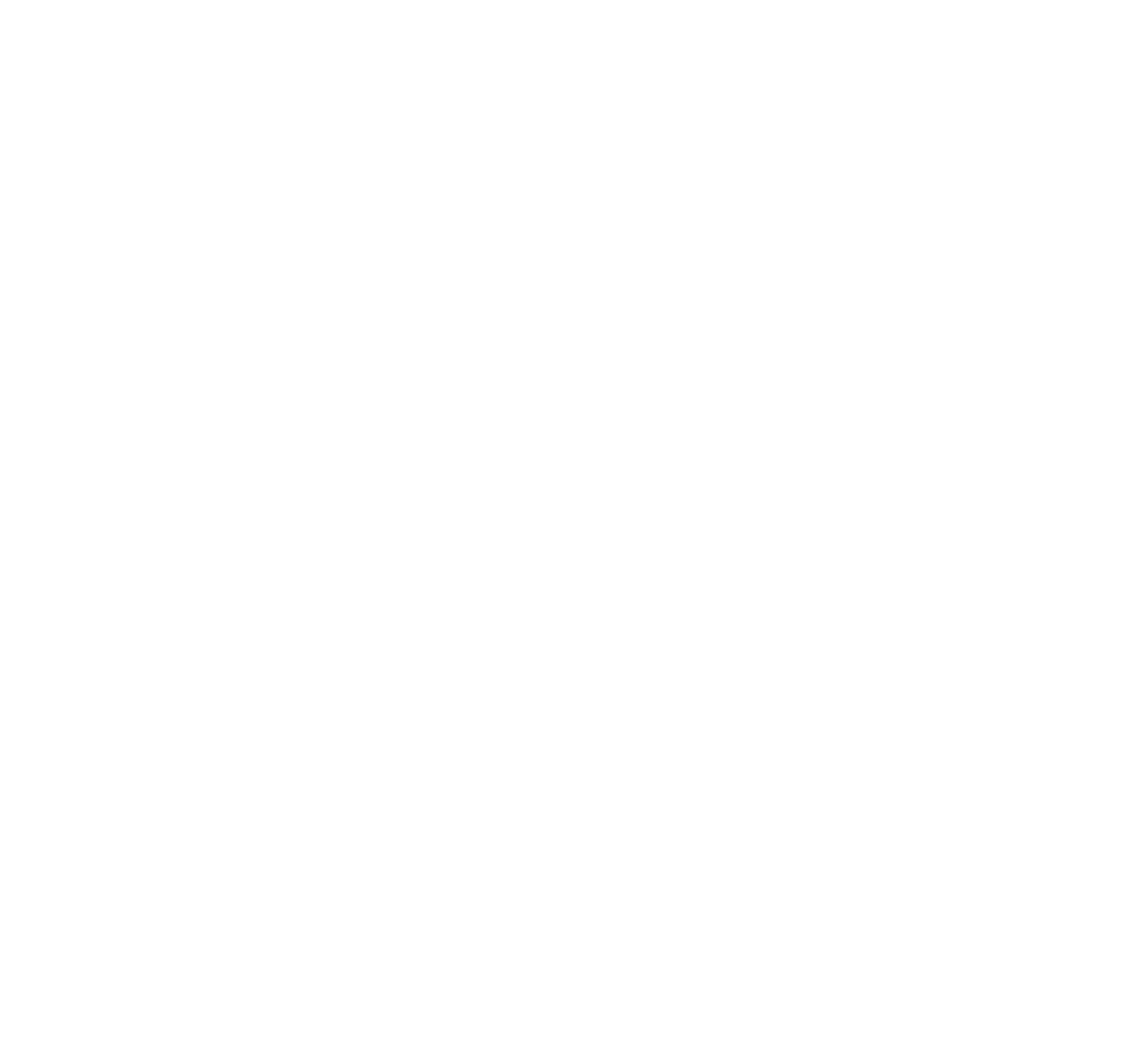
**4** TYP. SEPARATION AT WALL OUTLETS 1 1/2" = 1'-0"



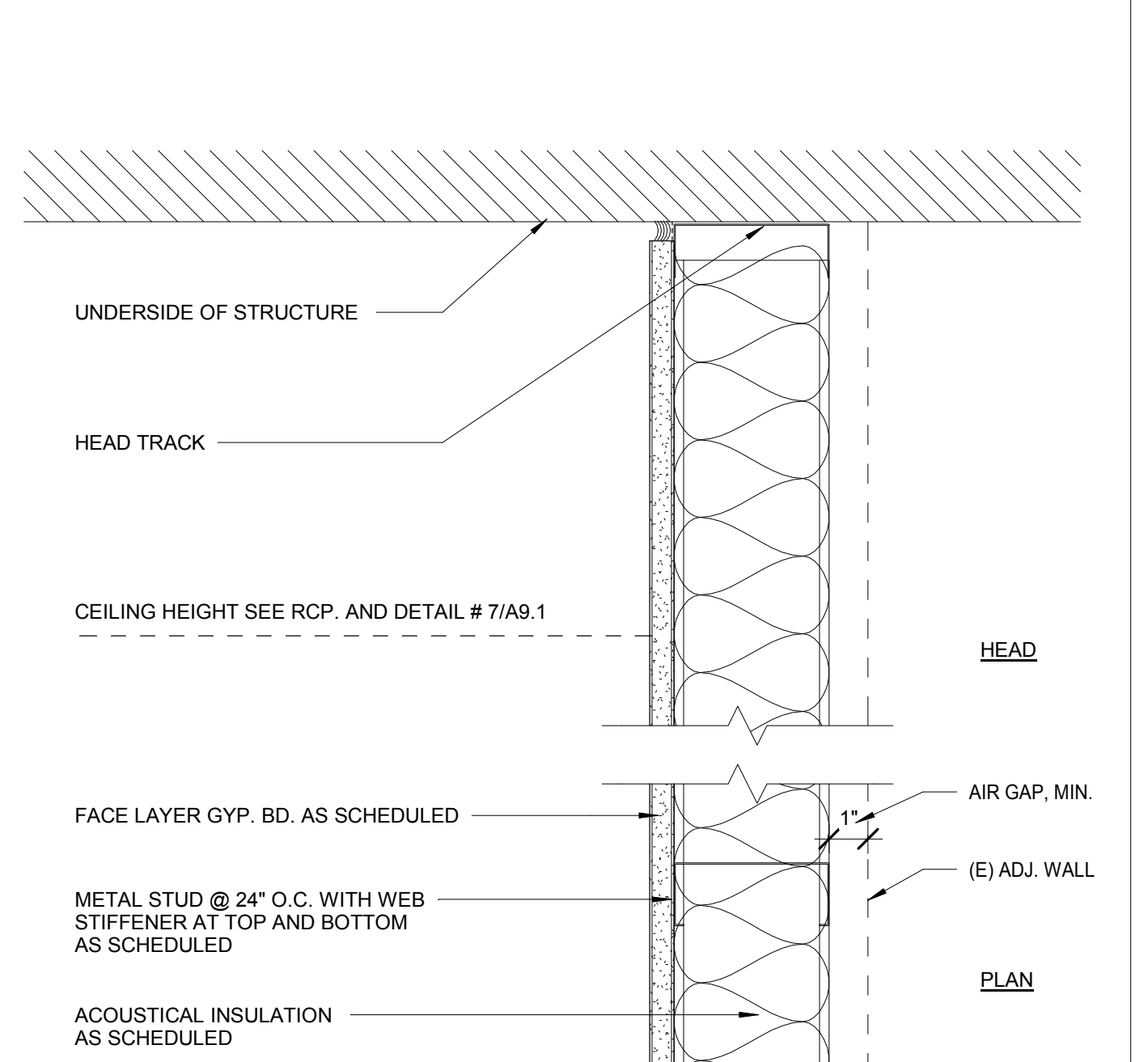
**2** RATED - NON-RATED WALL INTERSECTION 1 - PLAN VIEW 3" = 1'-0"



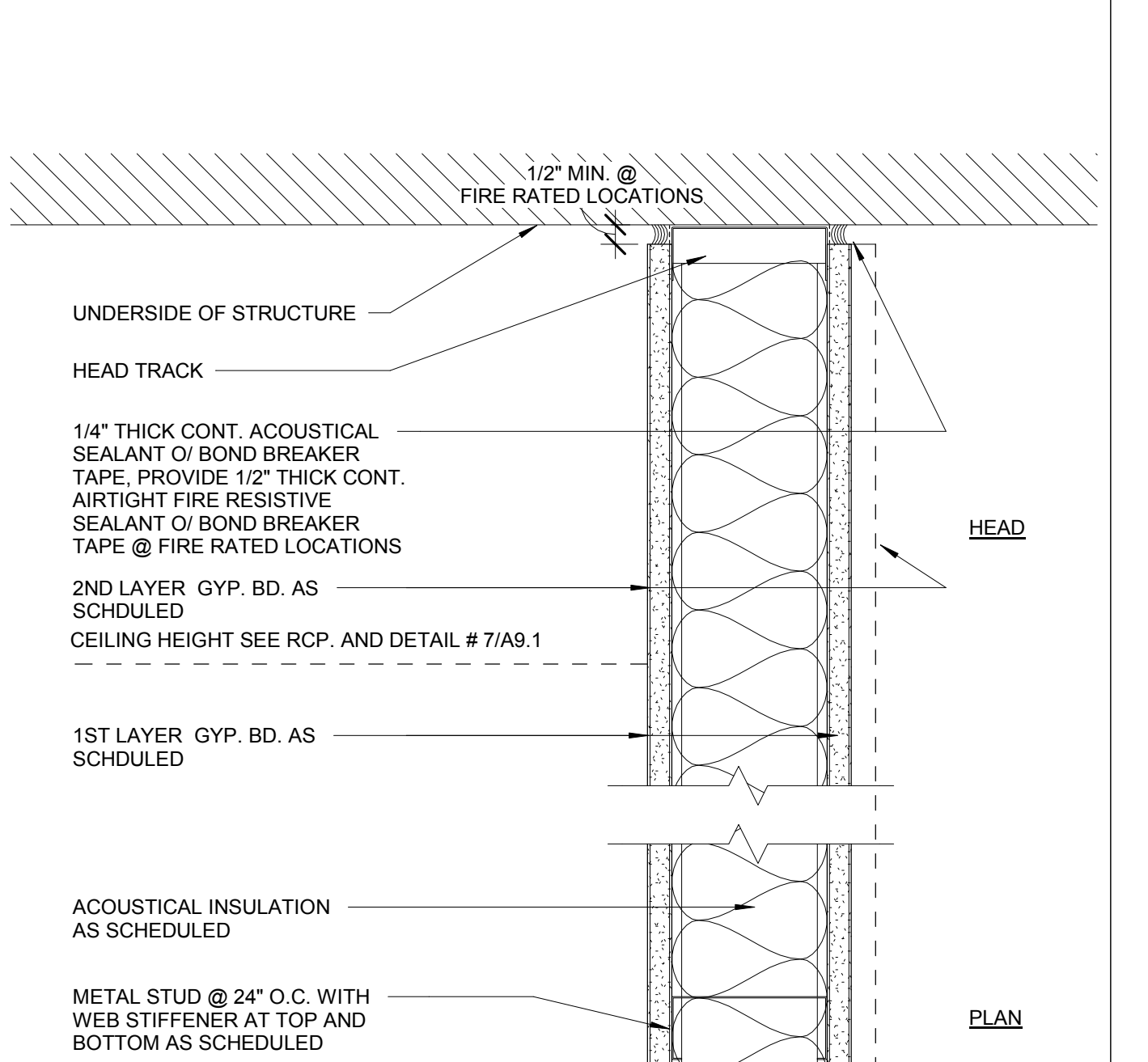
**9** CEILING FRAMING @ RATED ELEVATOR HOISTWAY 3" = 1'-0"



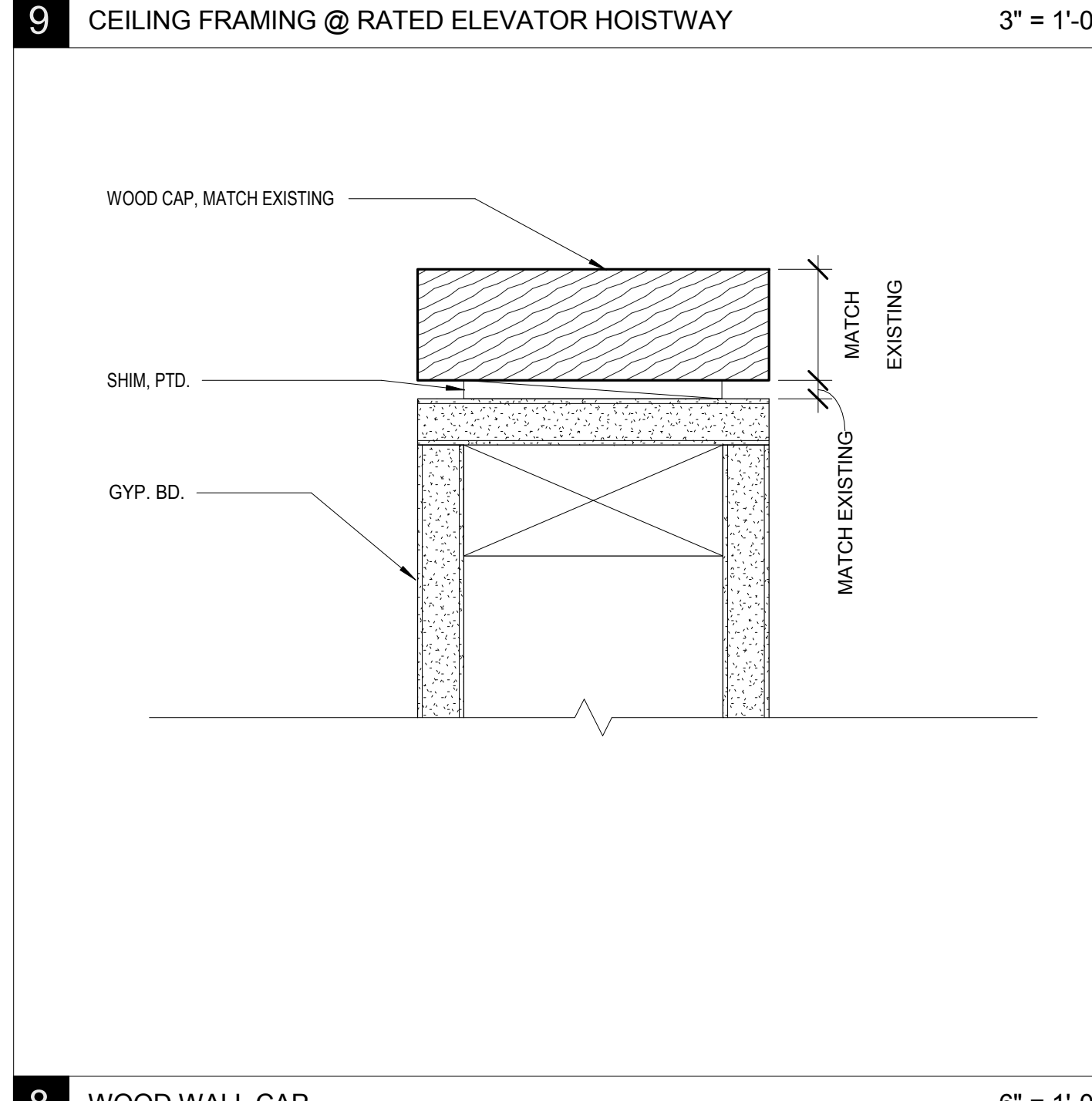
**5** CEILING FRAMING, TYP. 3" = 1'-0"



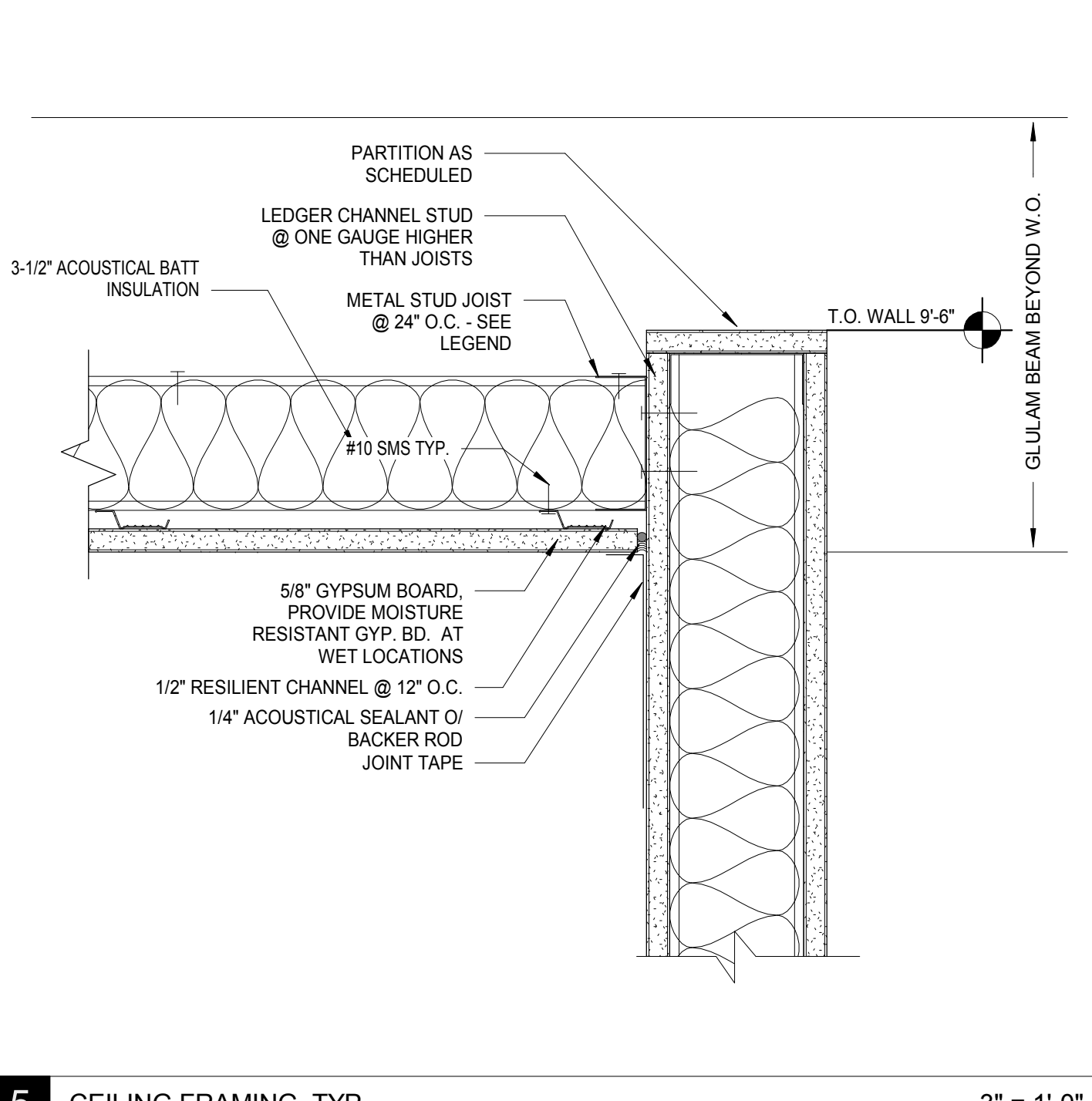
**3** PARTITION TYPE A3 - METAL STUD, PARTIAL HEIGHT FURRING 3" = 1'-0"



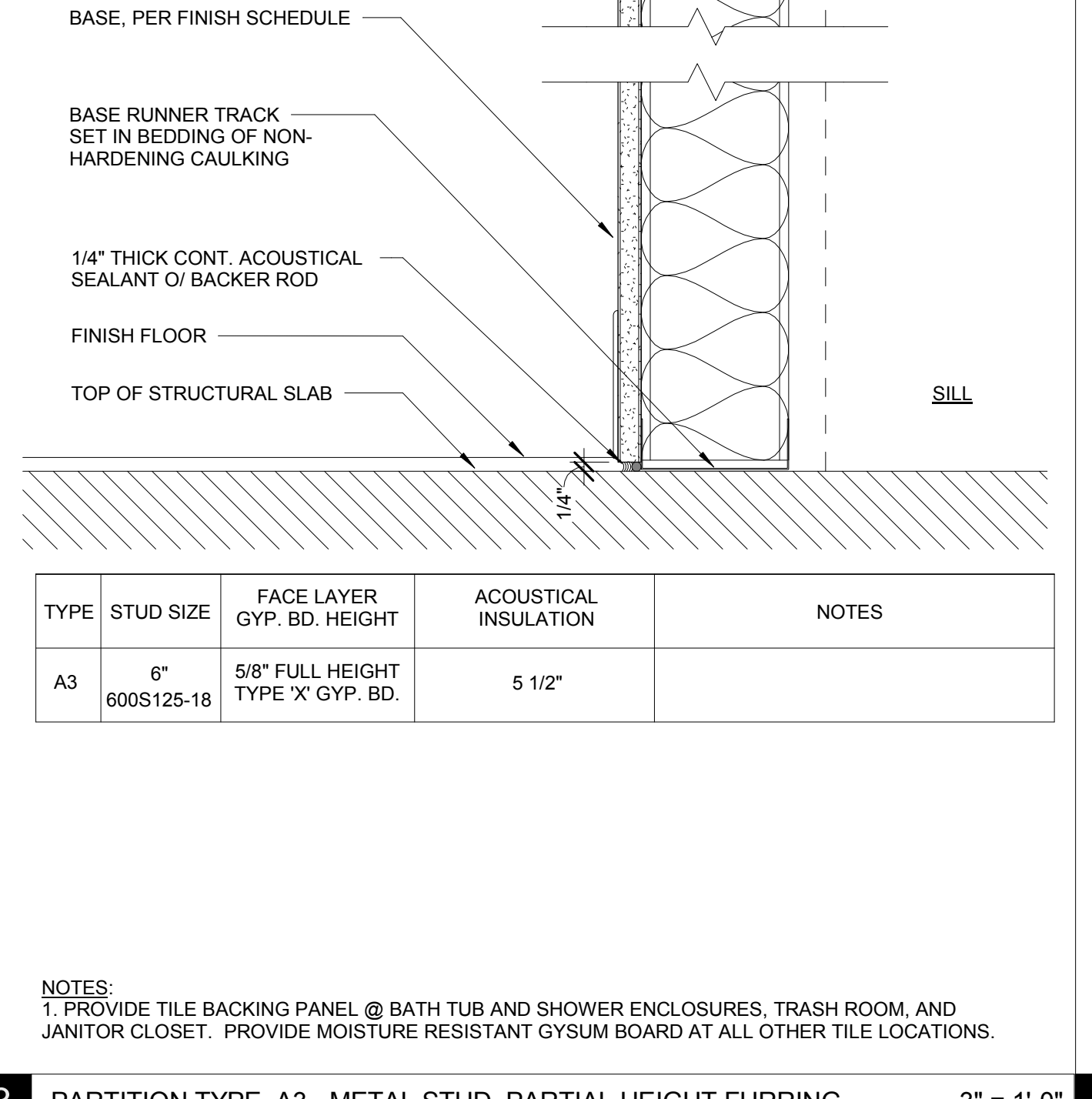
**1** PARTITION TYPE A1, A2 - METAL STUD, NON BEARING 3" = 1'-0"



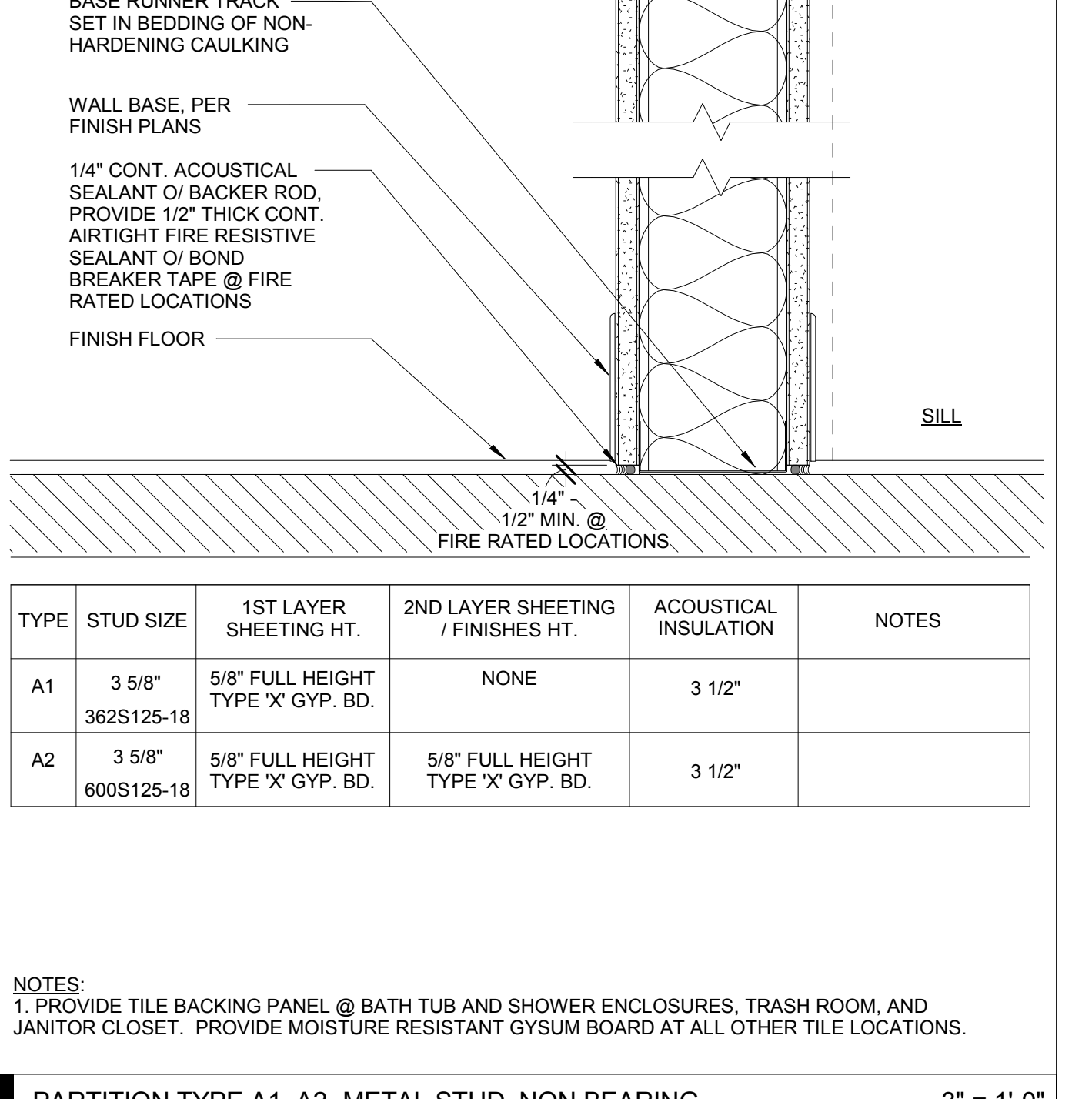
**8** WOOD WALL CAP 6" = 1'-0"



**3** PARTITION TYPE A3 - METAL STUD, PARTIAL HEIGHT FURRING 3" = 1'-0"



**3** PARTITION TYPE A3 - METAL STUD, PARTIAL HEIGHT FURRING 3" = 1'-0"



**1** PARTITION TYPE A1, A2 - METAL STUD, NON BEARING 3" = 1'-0"

INTERIOR CEILING JOIST SPAN TABLE PER S.S.M.A. 2014 (ESR 3064P)

SECTION	MIDSPAN LATERAL SUPPORT OF COMPRESSION FLANGE
362S125-33	14'-10" @ 4 PSF
362S125-33	13'-3" @ 8 PSF
362S125-33	10'-6" @ 10 PSF
250S125-27	10'-7" @ 4 PSF
162S137-33	9'-9" @ 4 PSF

CEILING ASSEMBLY:  
- STC 52  
- IIC 58

TYPE	STUD SIZE	FACE LAYER GYP. BD. HEIGHT	ACOUSTICAL INSULATION	NOTES
A3	6" 600S125-18	5/8" FULL HEIGHT TYPE 'X' GYP. BD.	5 1/2"	

TYPE	STUD SIZE	1ST LAYER SHEETING HT.	2ND LAYER SHEETING / FINISHES HT.	ACOUSTICAL INSULATION	NOTES
A1	3 5/8" 362S125-18	5/8" FULL HEIGHT TYPE 'X' GYP. BD.	NONE	3 1/2"	
A2	3 5/8" 600S125-18	5/8" FULL HEIGHT TYPE 'X' GYP. BD.	5/8" FULL HEIGHT TYPE 'X' GYP. BD.	3 1/2"	

NOTES:  
1. PROVIDE TILE BACKING PANEL @ BATH TUB AND SHOWER ENCLOSURES, TRASH ROOM, AND JANITOR CLOSET. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL OTHER TILE LOCATIONS.

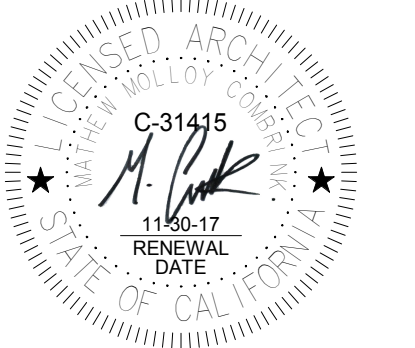
NOTES:  
1. PROVIDE TILE BACKING PANEL @ BATH TUB AND SHOWER ENCLOSURES, TRASH ROOM, AND JANITOR CLOSET. PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL OTHER TILE LOCATIONS.

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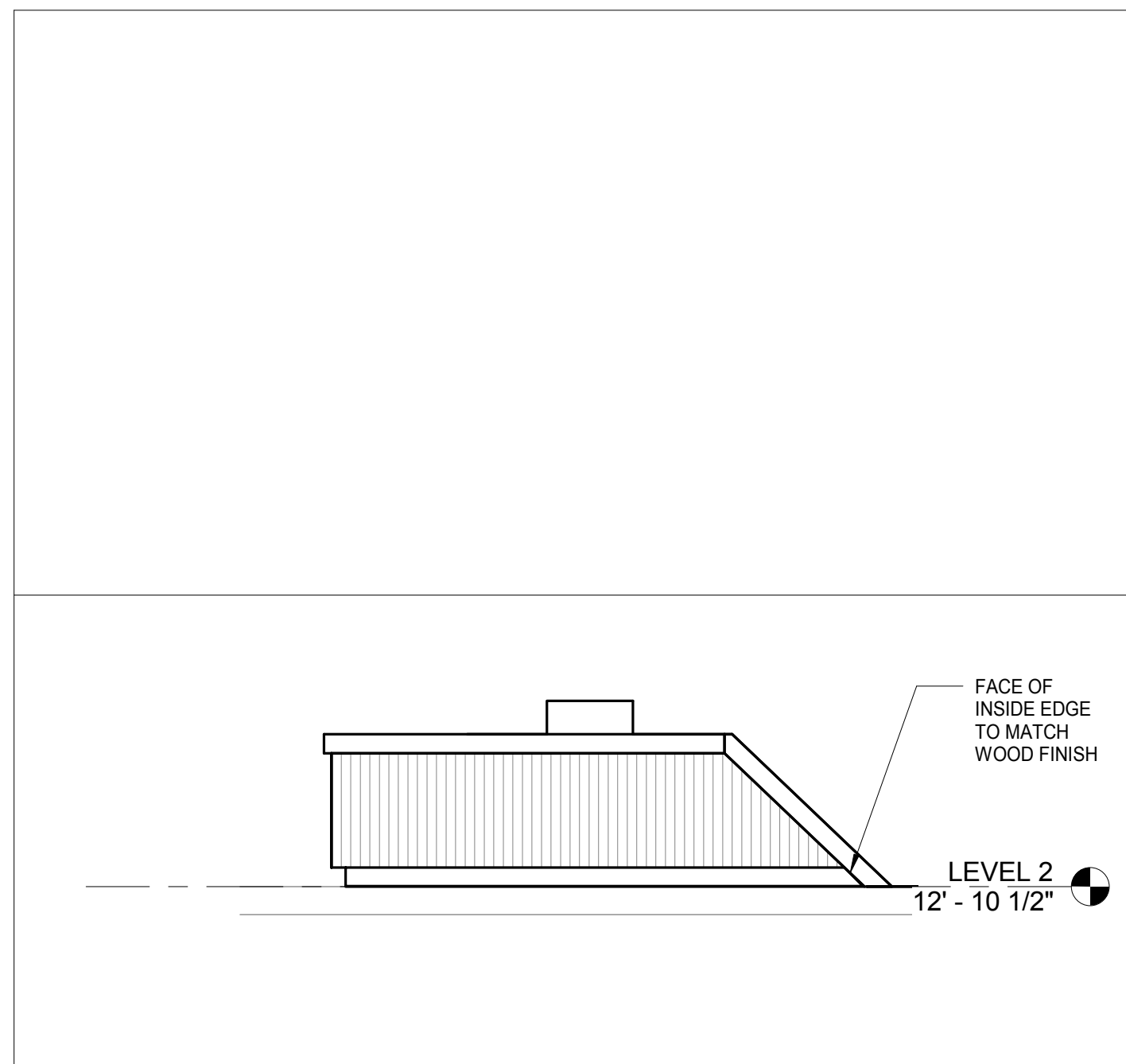
novato, california  
project number: 16-148.01

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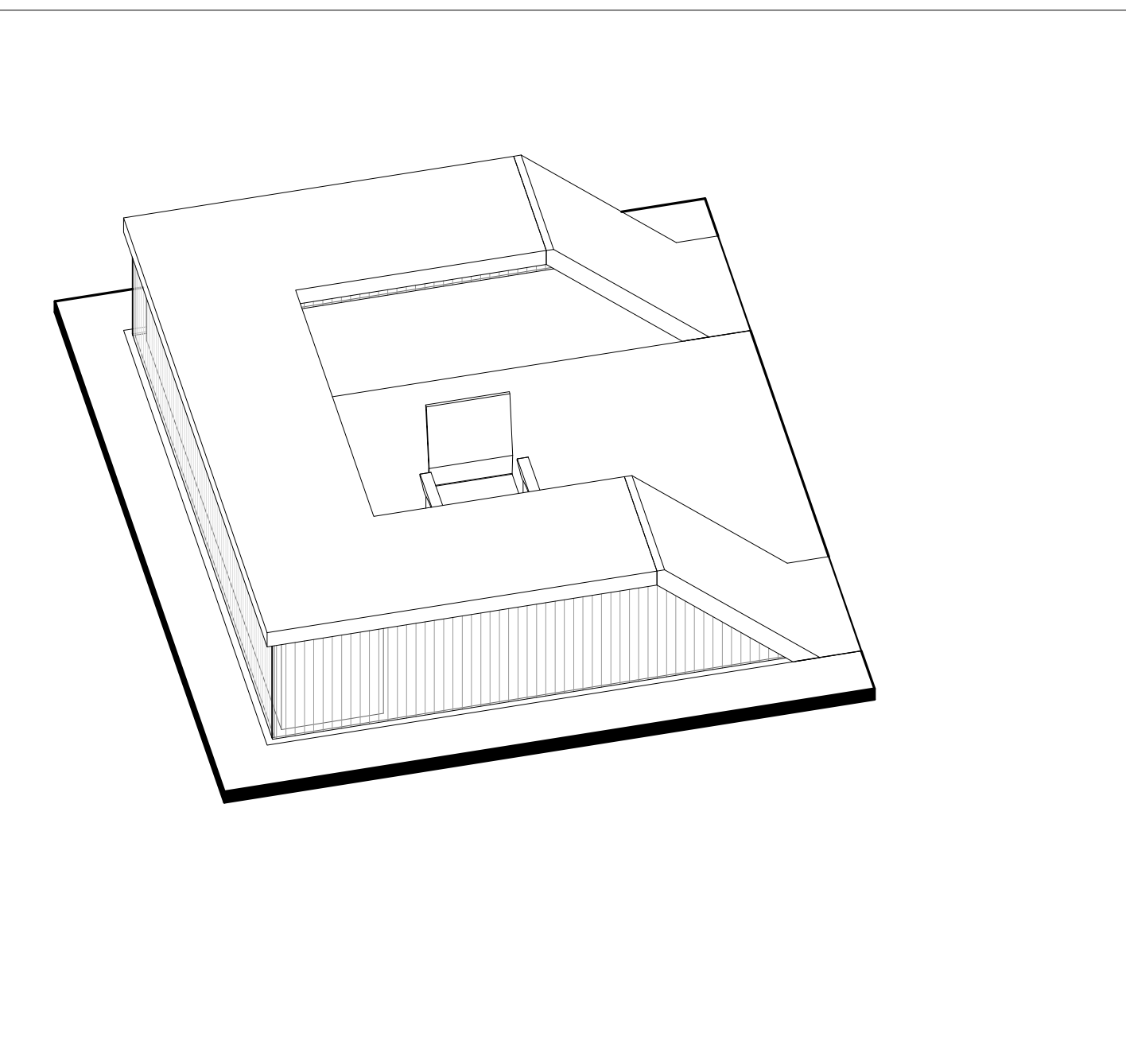
CONSTRUCTION DOCUMENTS  
INTERIOR DETAILS



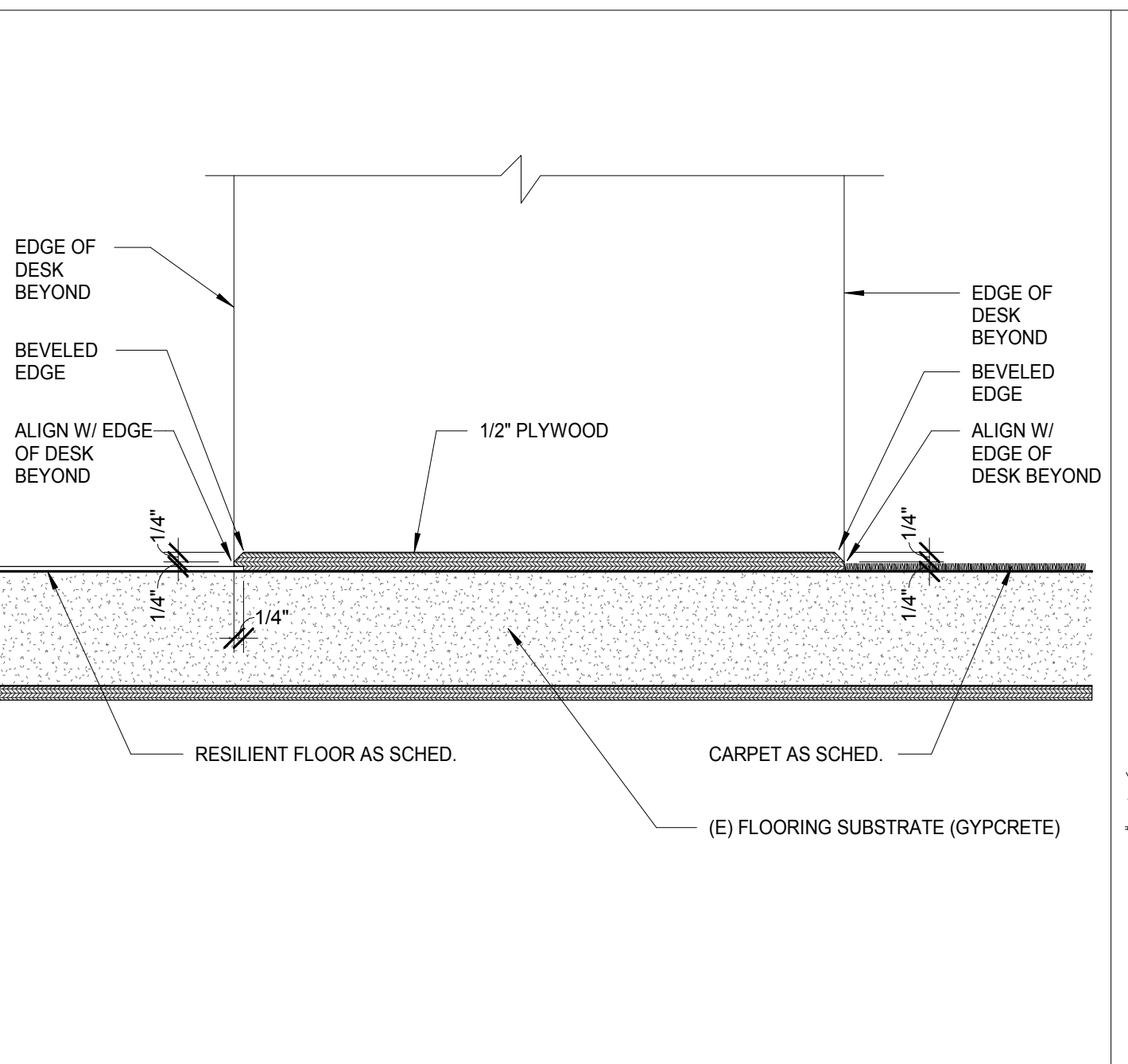
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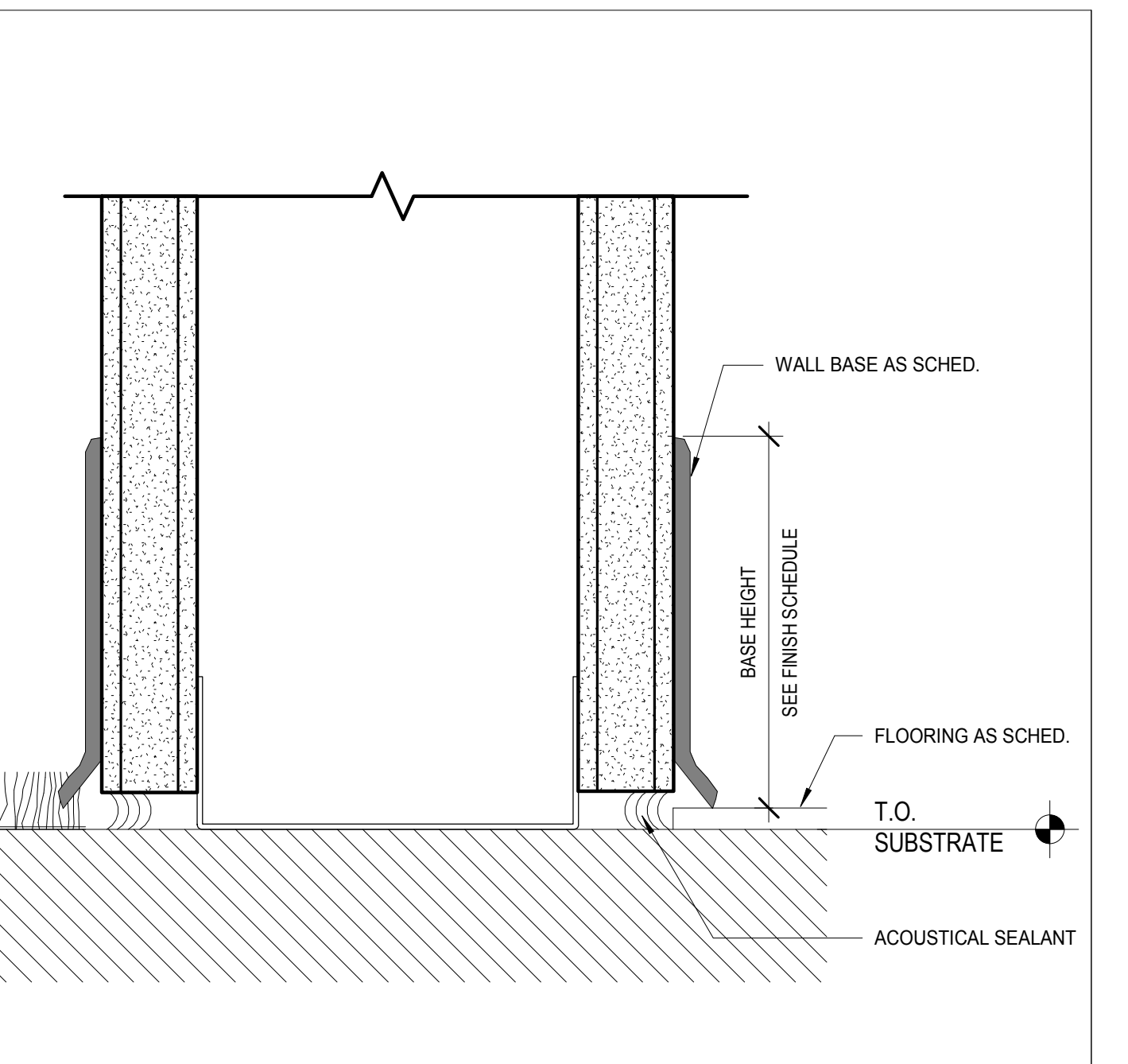
**12** RECEPTION DESK SOUTH 3/8" = 1'-0"



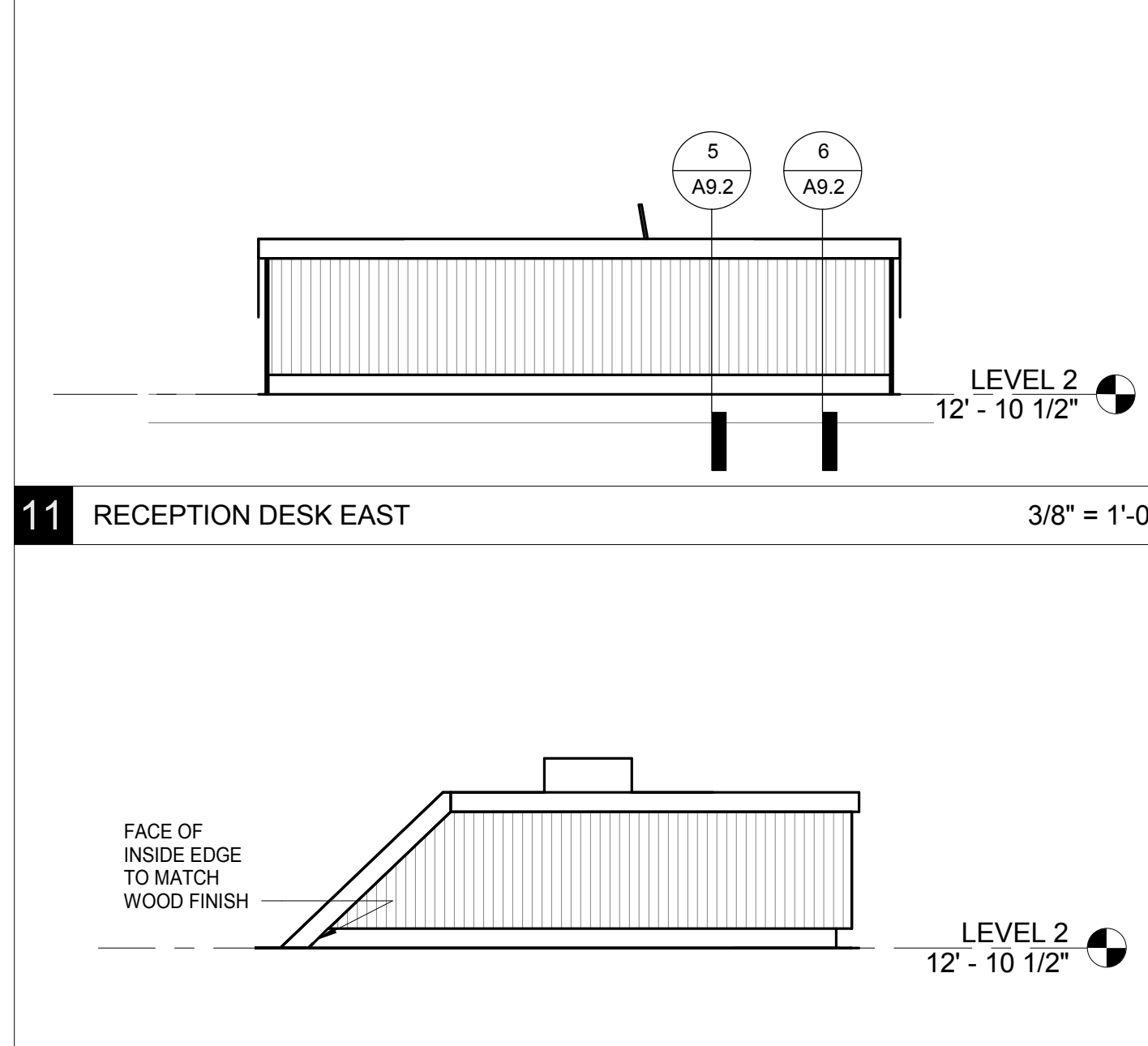
**8** RECEPTION DESK AXON 3/8" = 1'-0"



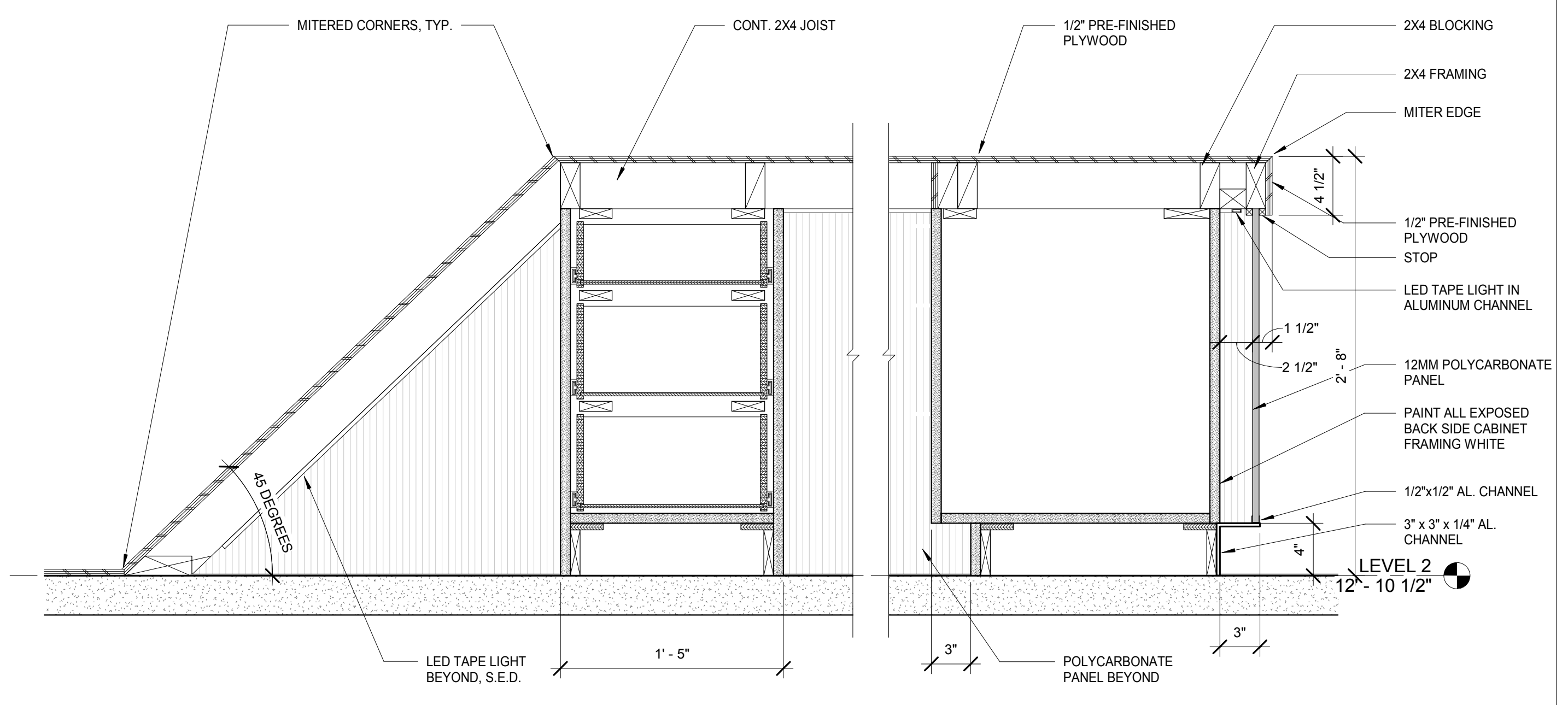
**7** PLYWD. FLOORING TRANSITION 3" = 1'-0"



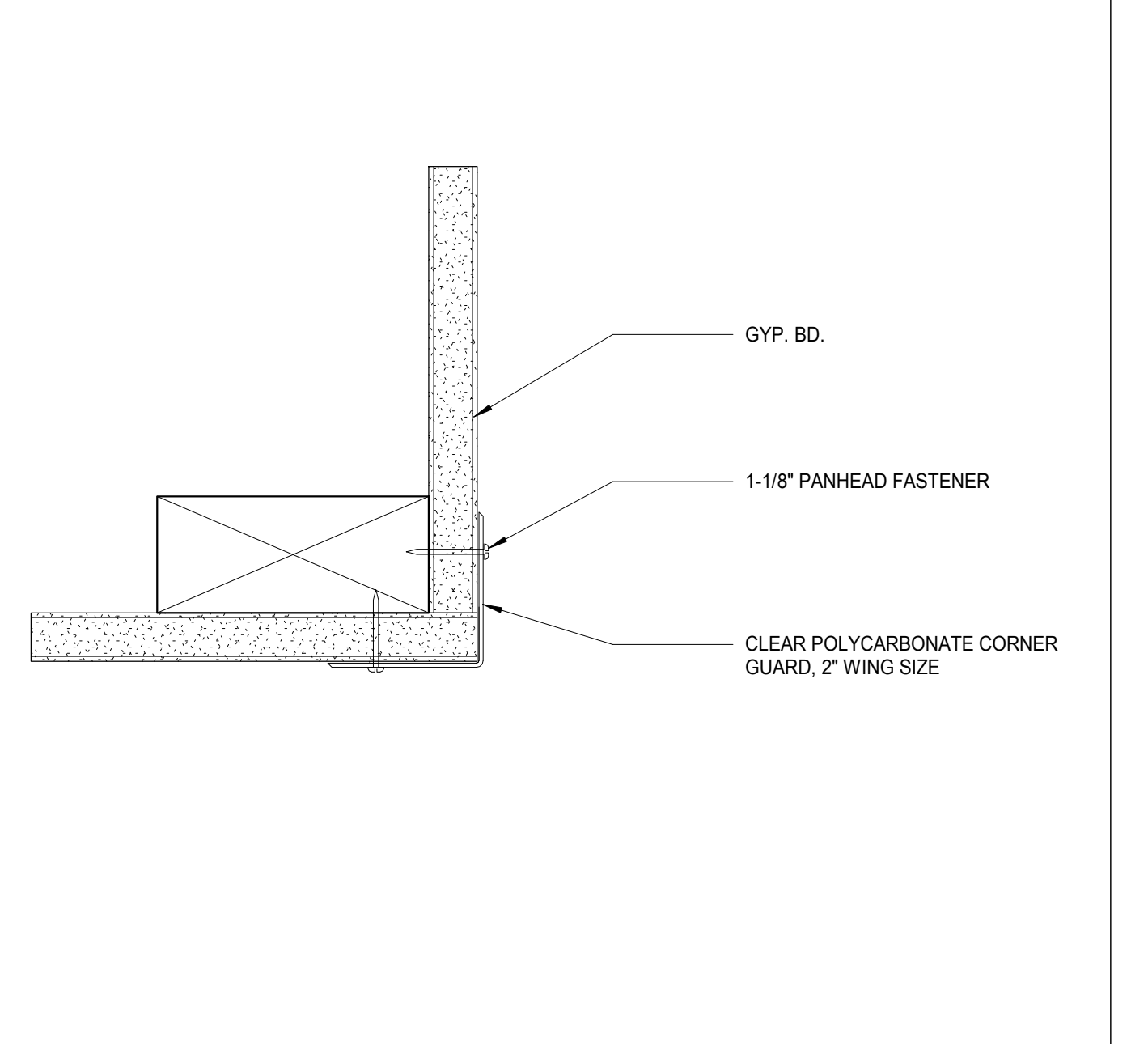
**3** RESILIENT FLOOR BASE 12" = 1'-0"



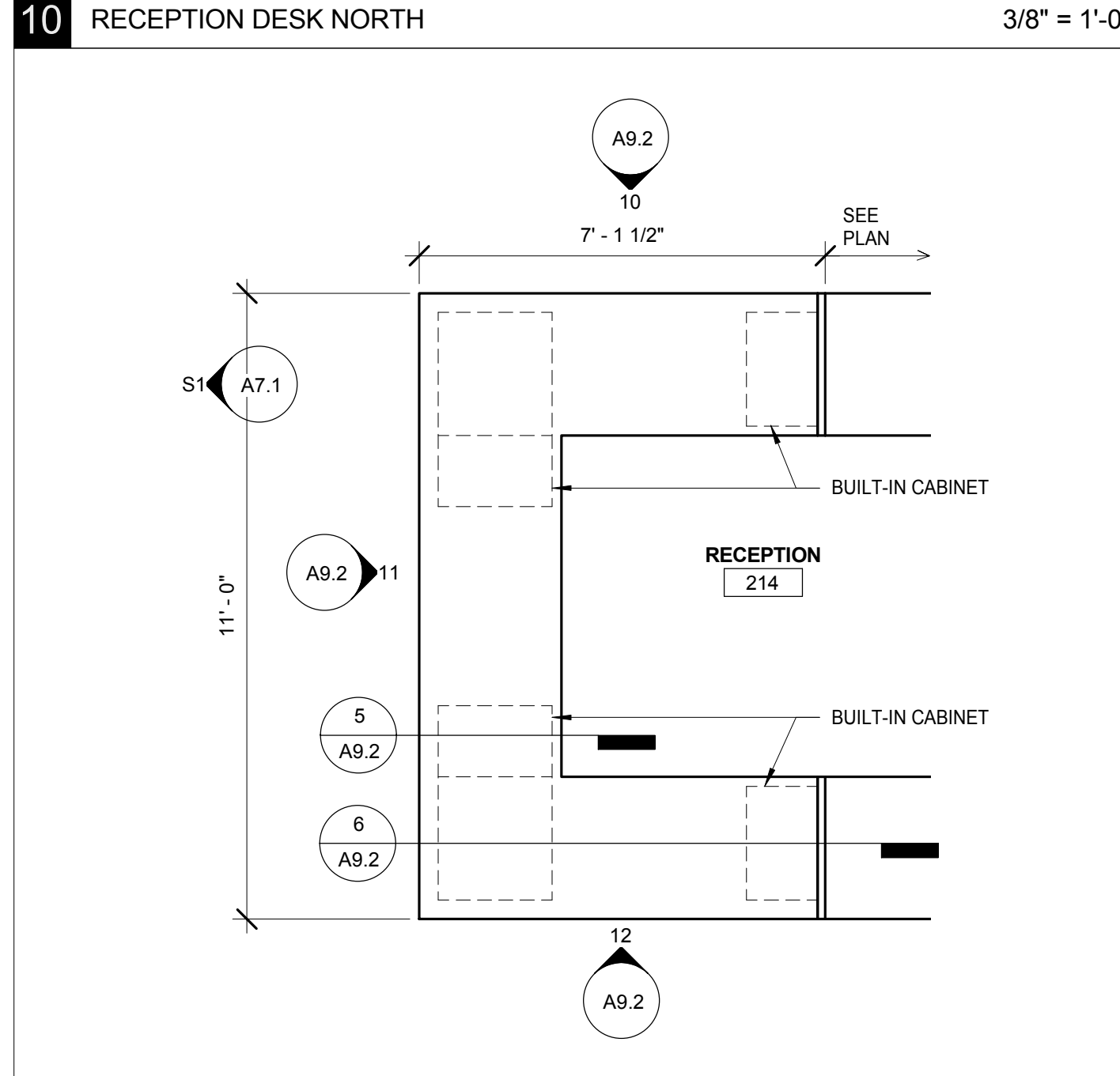
**11** RECEPTION DESK EAST 3/8" = 1'-0"



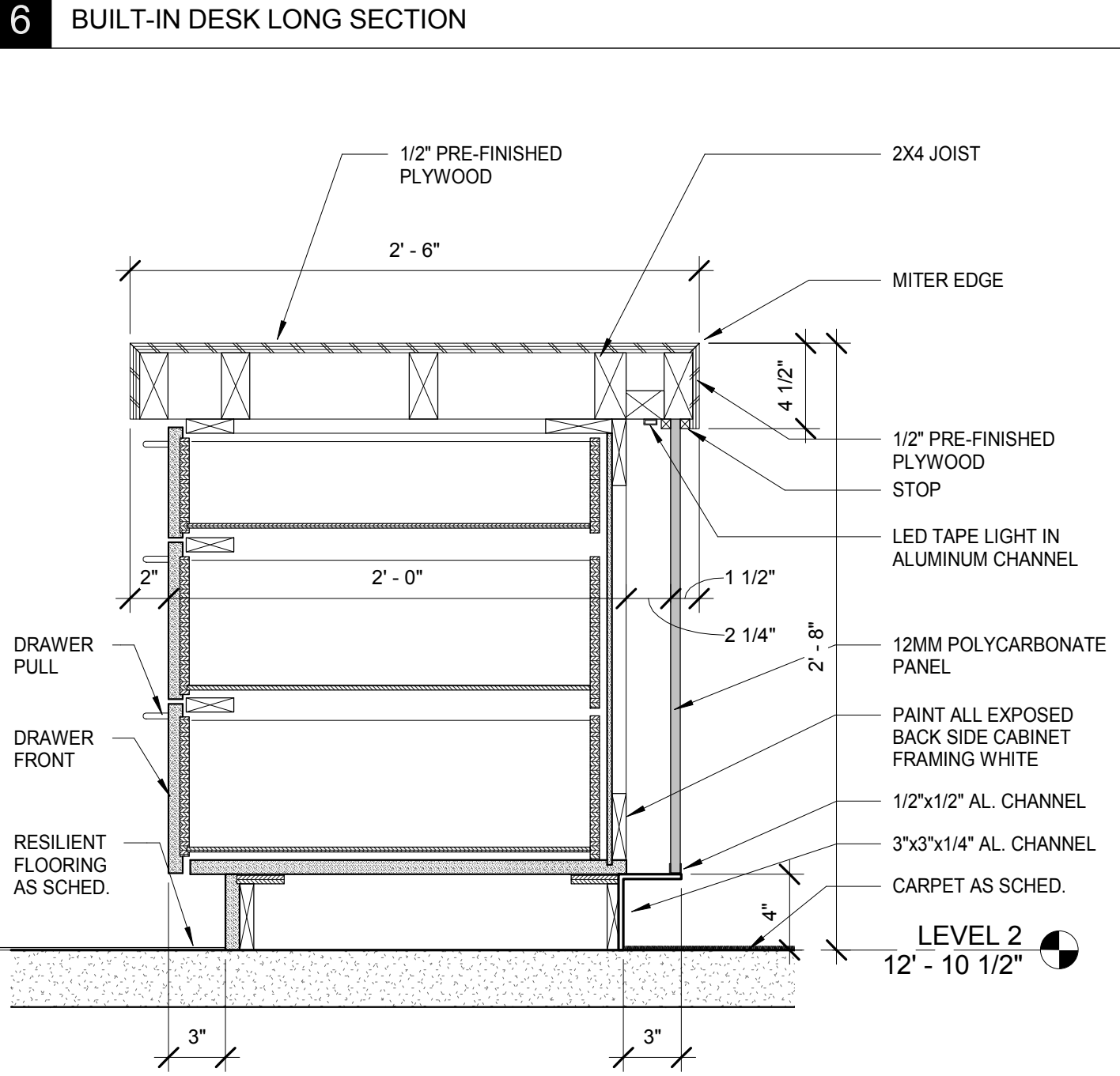
**6** BUILT-IN DESK LONG SECTION 1 1/2" = 1'-0"



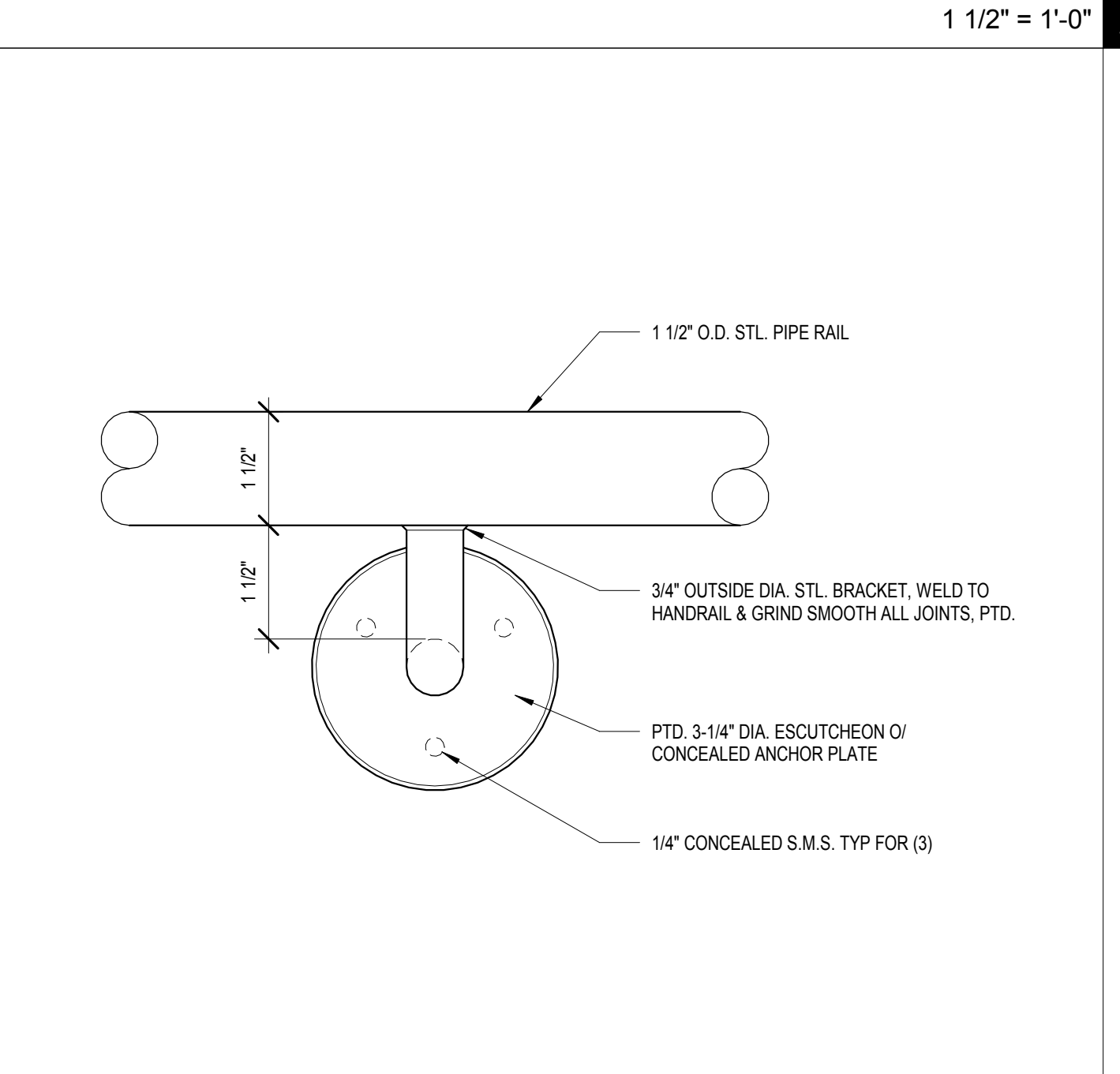
**2** TYP. CORNER GUARD - PLAN VIEW 6" = 1'-0"



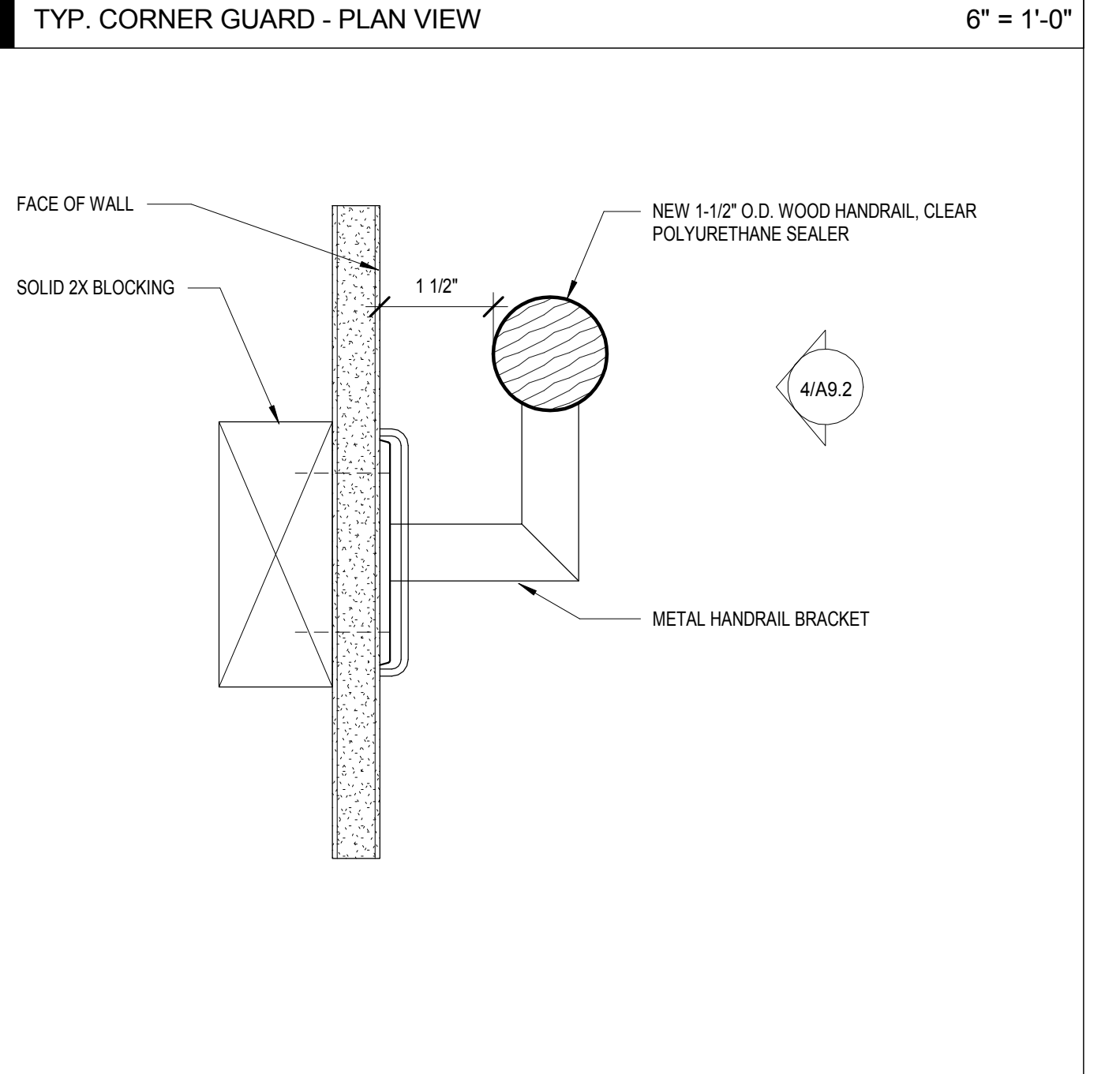
**9** RECEPTION DESK ENLARGED PLAN 3/8" = 1'-0"



**5** BUILT-IN DESK SECTION 1 1/2" = 1'-0"



**4** HANDRAIL MOUNTING 6" = 1'-0"



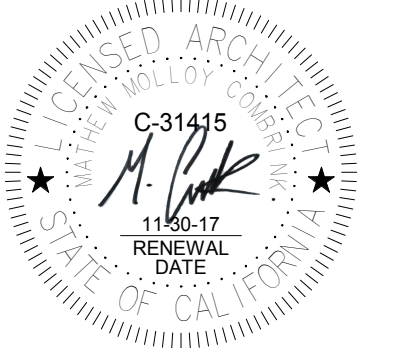
**1** HAND RAIL SECTION 6" = 1'-0"

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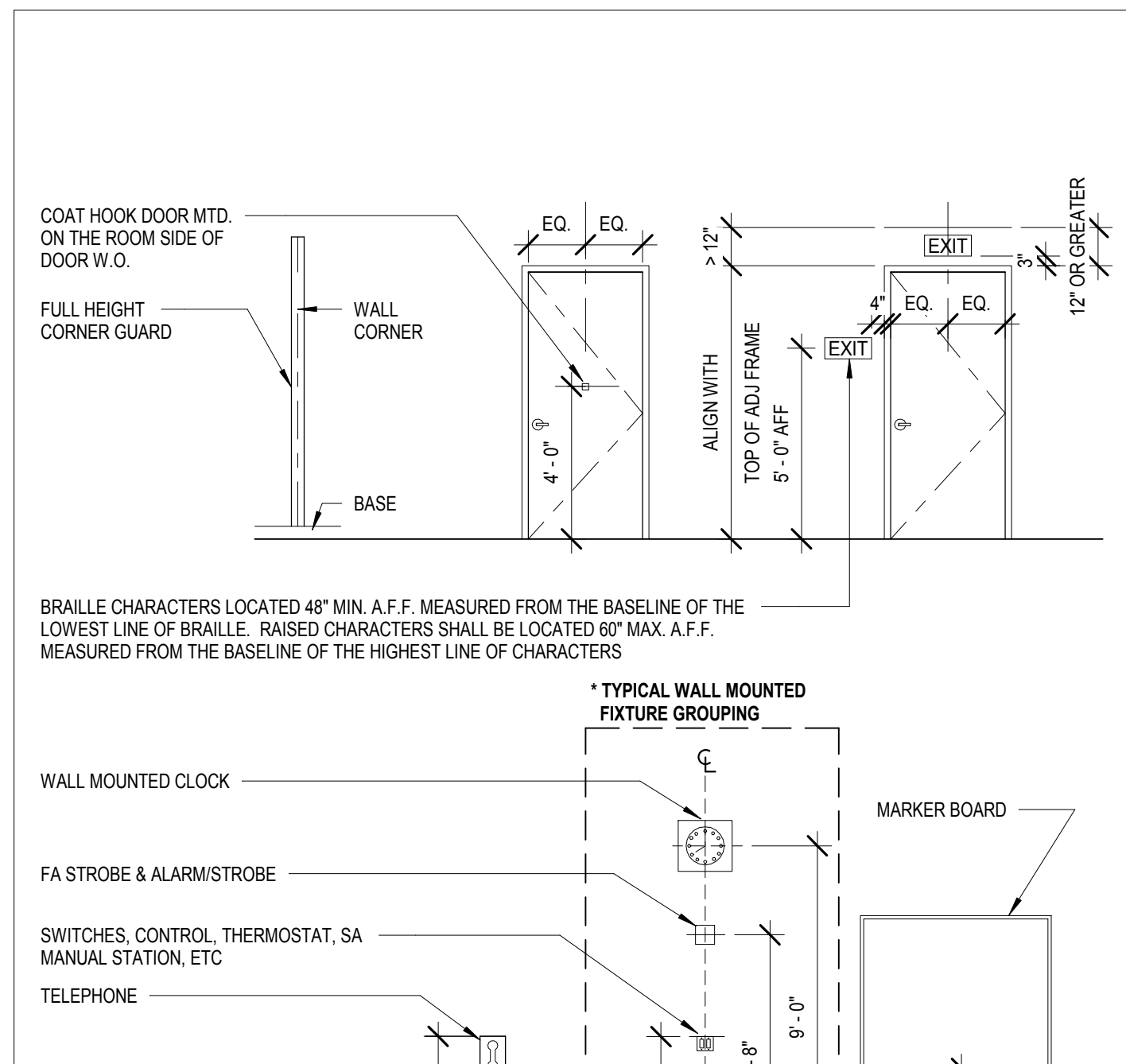
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**CONSTRUCTION  
DOCUMENTS  
INTERIOR  
DETAILS**

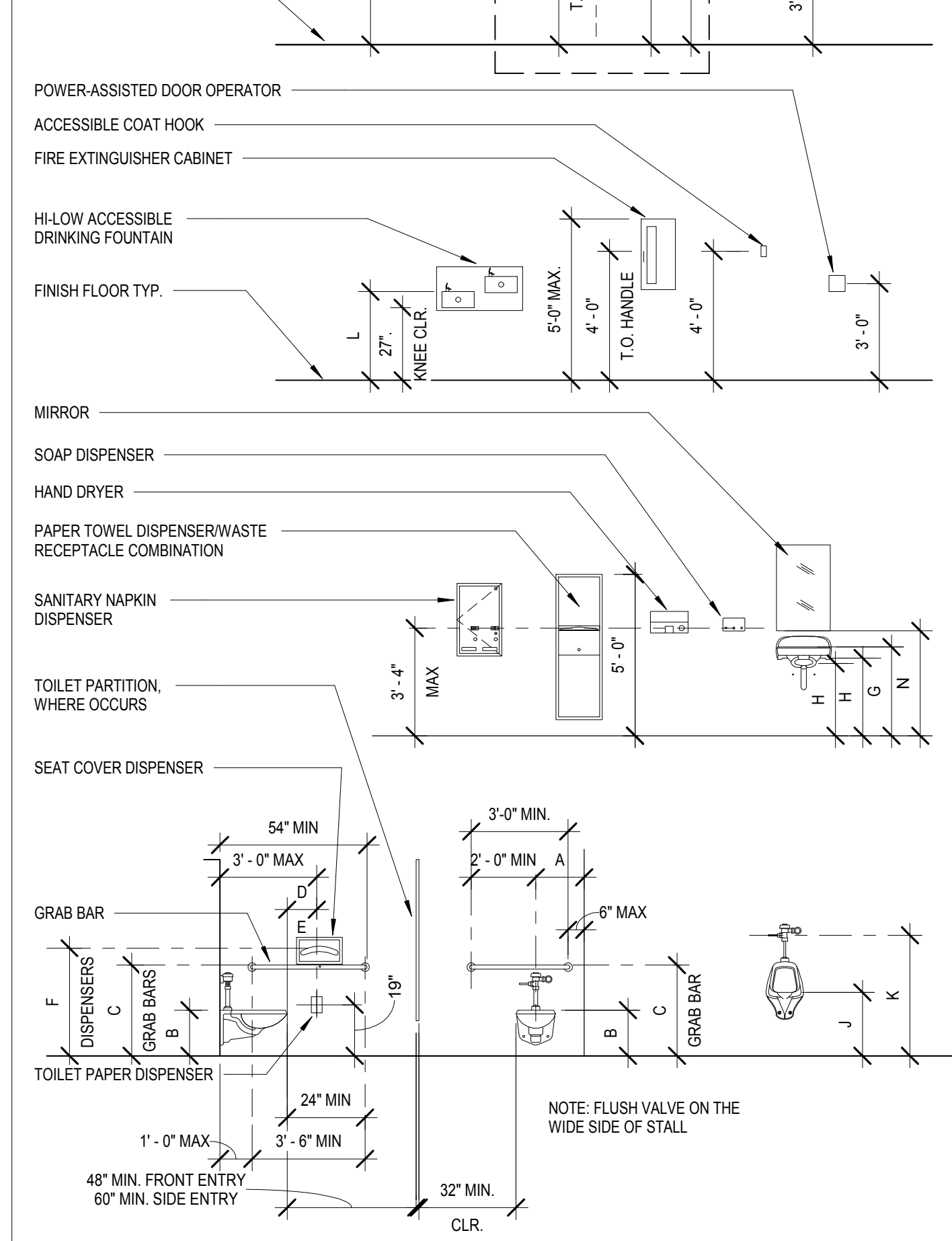
**A9.2**



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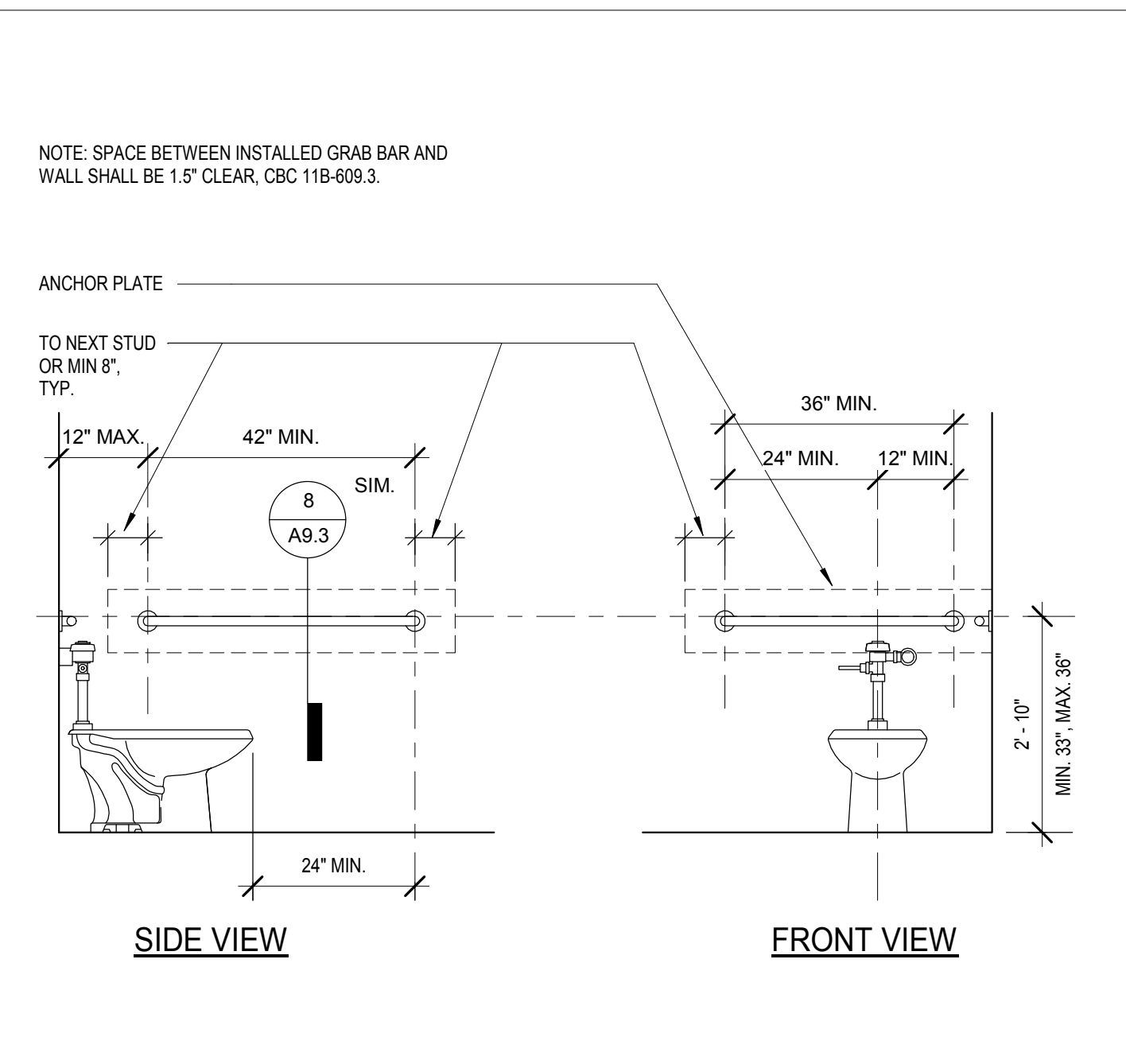
**10** TYPICAL ACCESSIBLE MOUNTING HT1 1/4" = 1'-0"



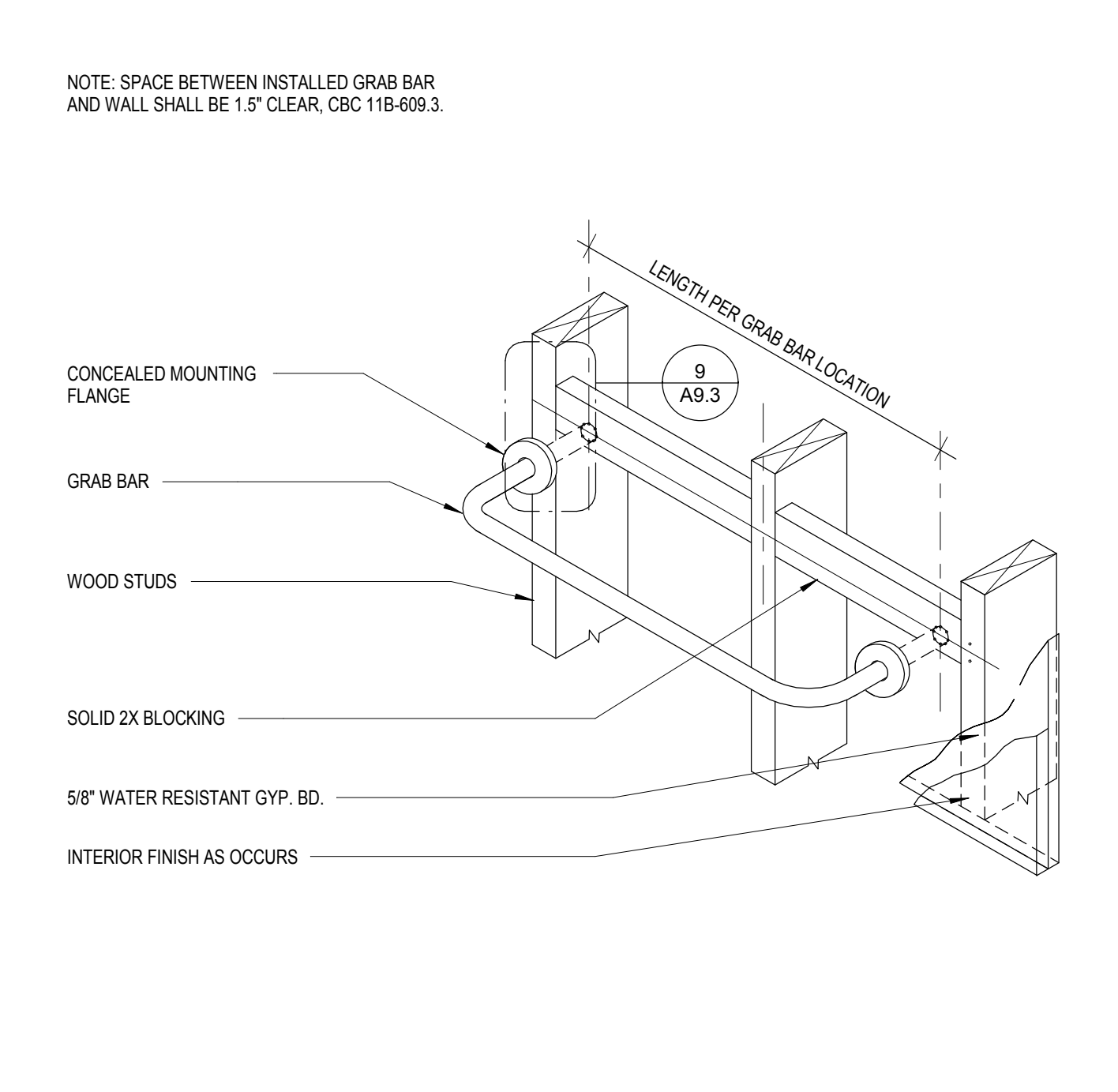
**7** SOAP DISPENSER MOUNTING 6" = 1'-0"

DIMENSIONS FOR ACCESSIBILITY		
DESCRIPTIONS	DIMENSIONS	
A	TOILET CENTER LINE FROM WALL	17" MIN., 18" MAX.
B	TOILET SEAT HEIGHT	17"-19"
C	GRAB BAR HEIGHT	33" - 36"
D	TOILET PAPER IN FRONT OF TOILET	7" - 9"
E	NAPKIN DISPOSAL IN FRONT OF TOILET	12"
F	DISPENSER HEIGHT	40" MAX.
G	LAVATORY AND SINK TOP HEIGHT	34" MAX.
H	LAVATORY AND SINK KNEE CLEARANCE	29" MAX. AT APRON; 27" MAX. AT BOWL
J	URINAL LIP HEIGHT	17" MAX.
K	URINAL FLUSH HANDLE HEIGHT	44" MAX.
L	DRINKING FOUNTAIN BUBBLER HEIGHT	36" MAX.
M	DRINKING FOUNTAIN KNEE CLEARANCE	27" MAX.
N	BOTTOM OF REFLECTIVE SURFACE (MIRROR)	40" MAX.

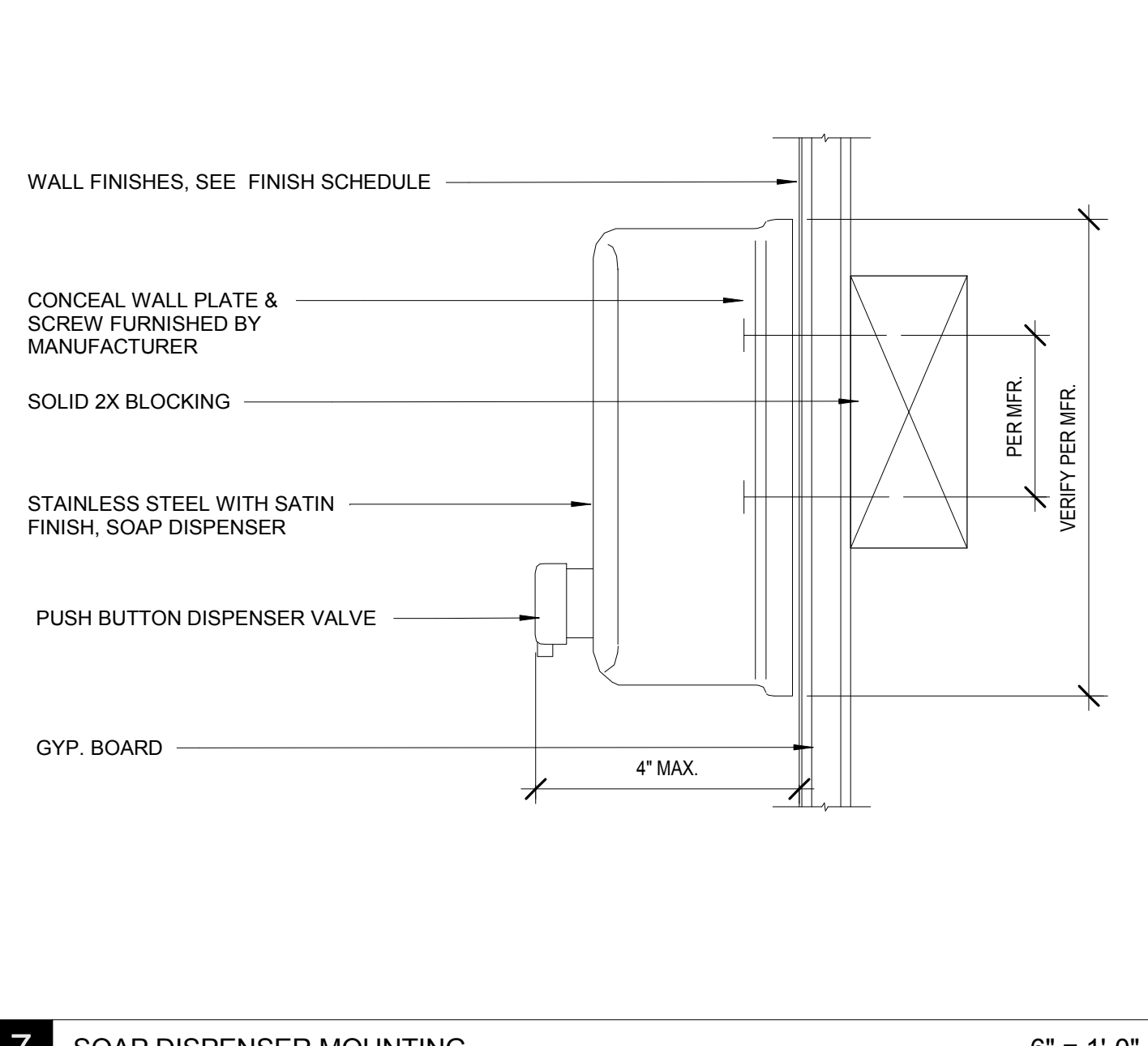
**10** TYPICAL ACCESSIBLE MOUNTING HT1 1/4" = 1'-0"



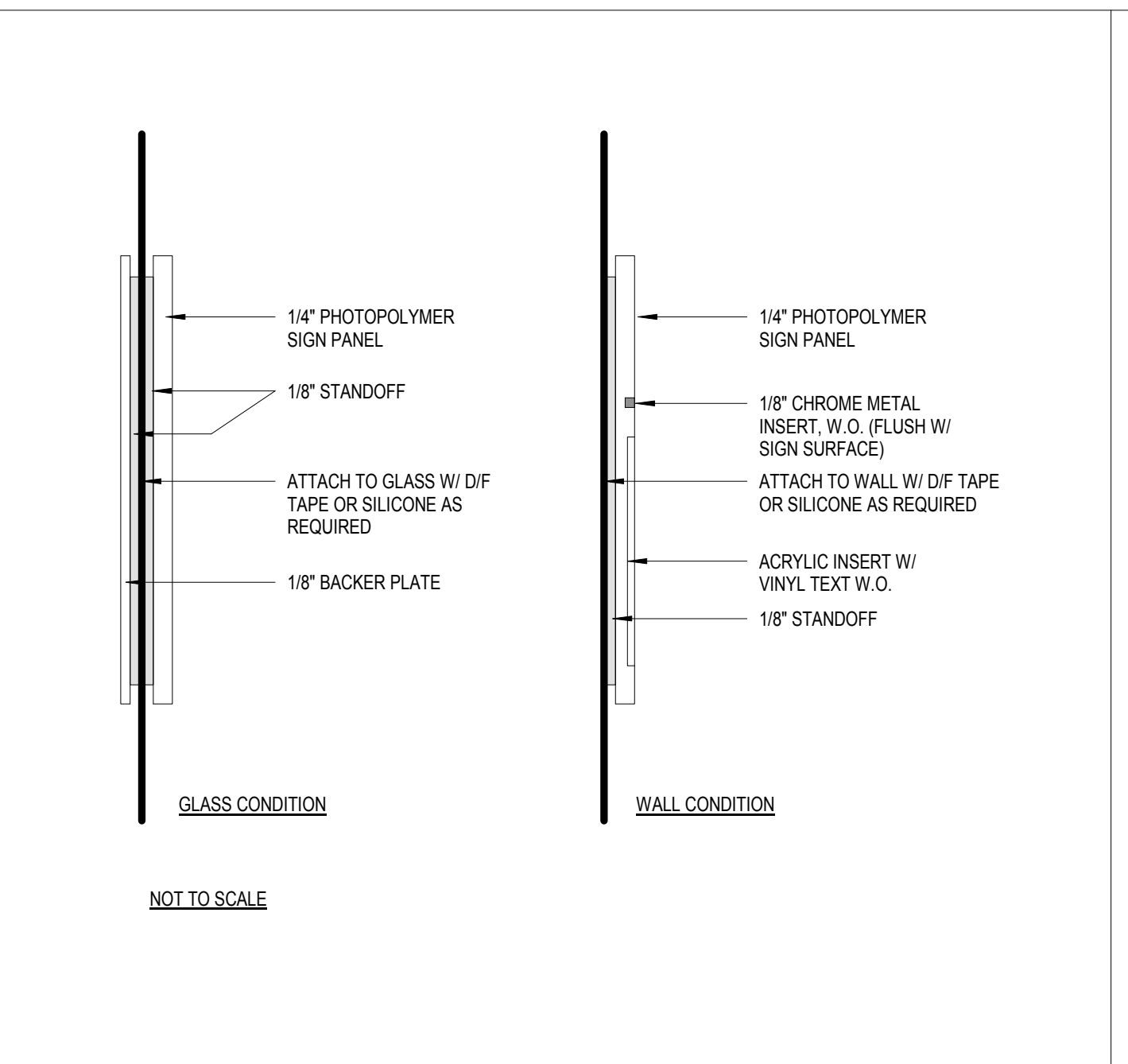
**9** TYPICAL GRAB BAR MOUNTING1 1/2" = 1'-0"



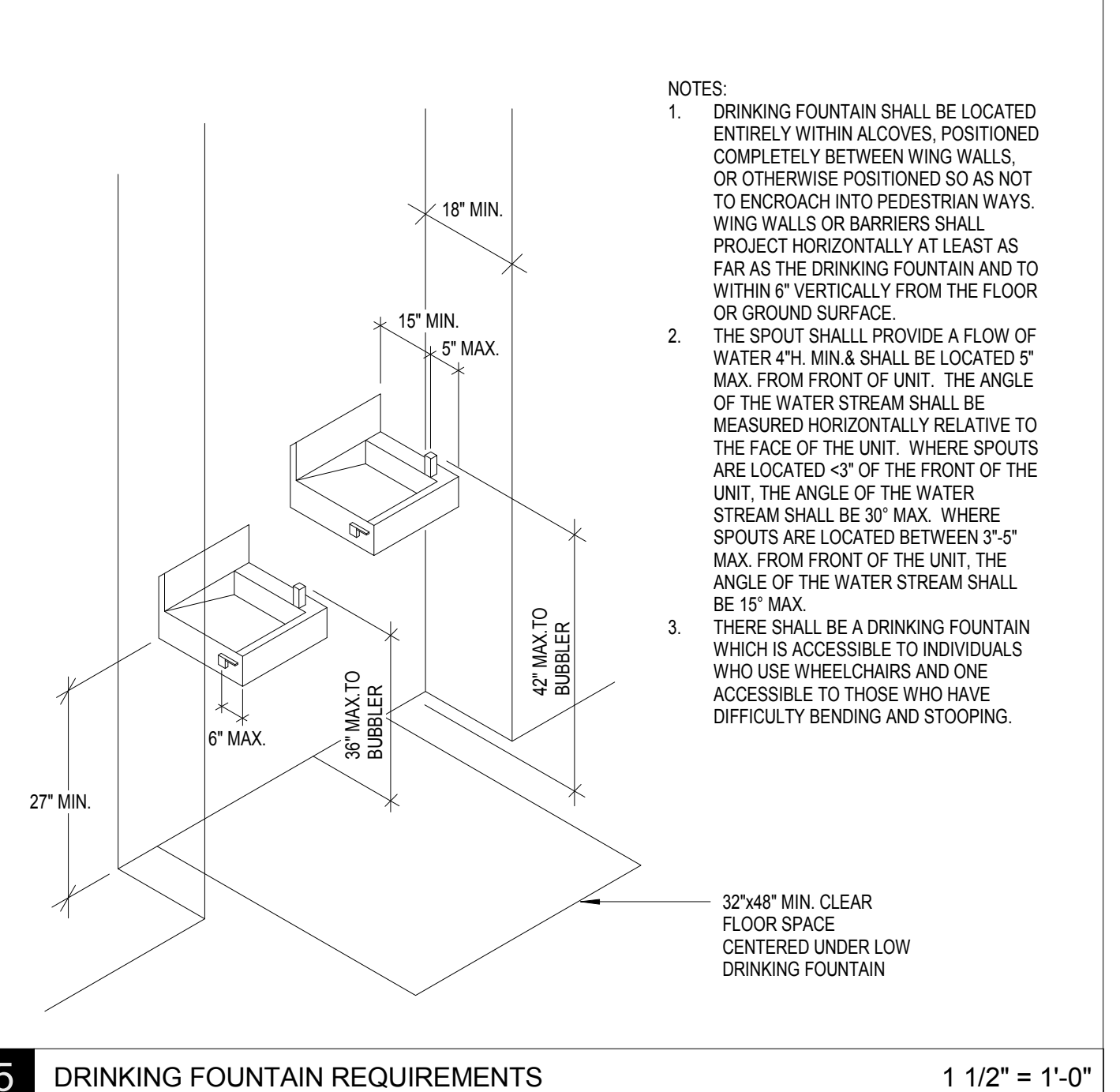
**8** GRAB BAR ANCHORAGE1 3" = 1'-0"



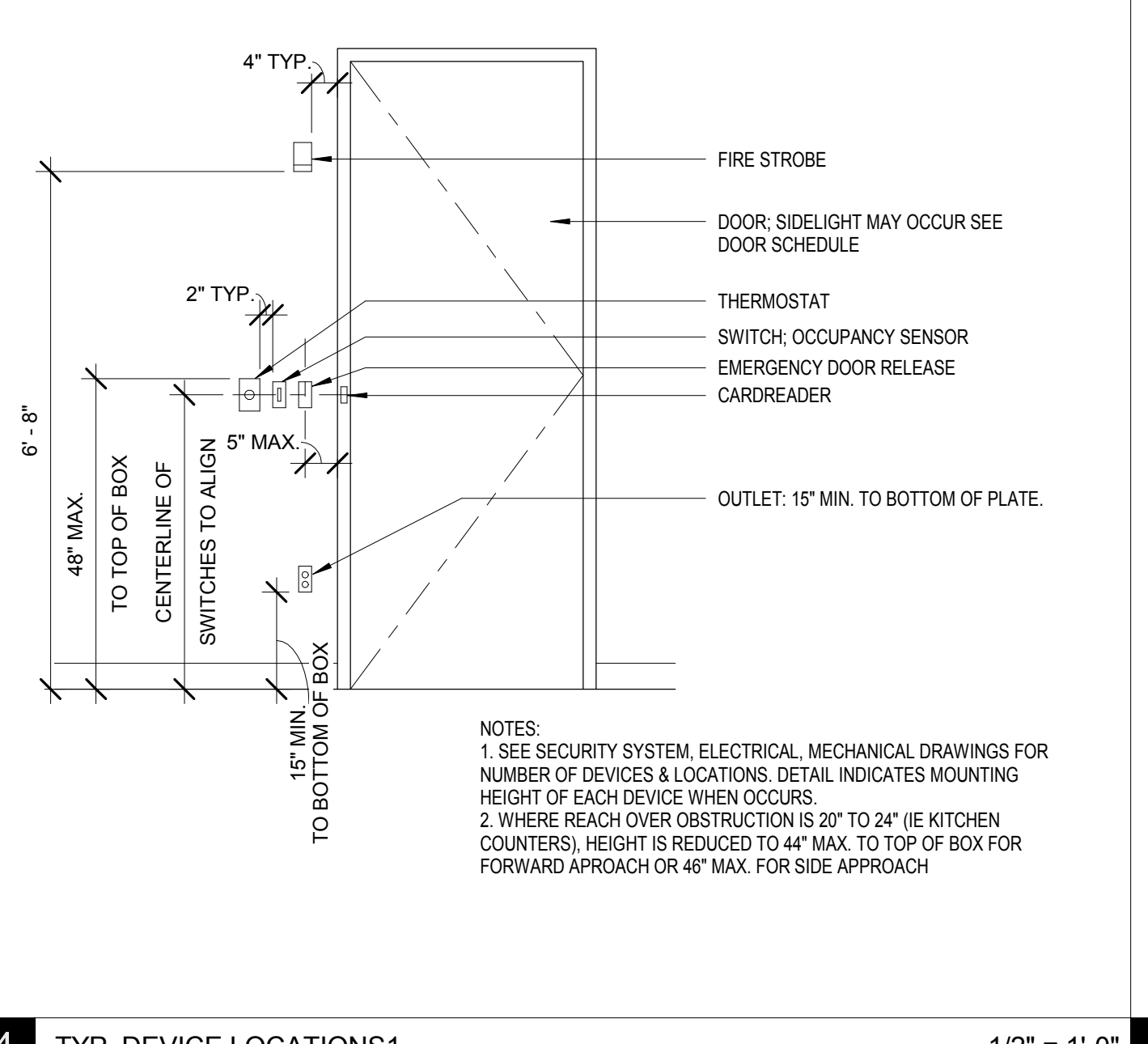
**4** TYP. DEVICE LOCATIONS1 1/2" = 1'-0"



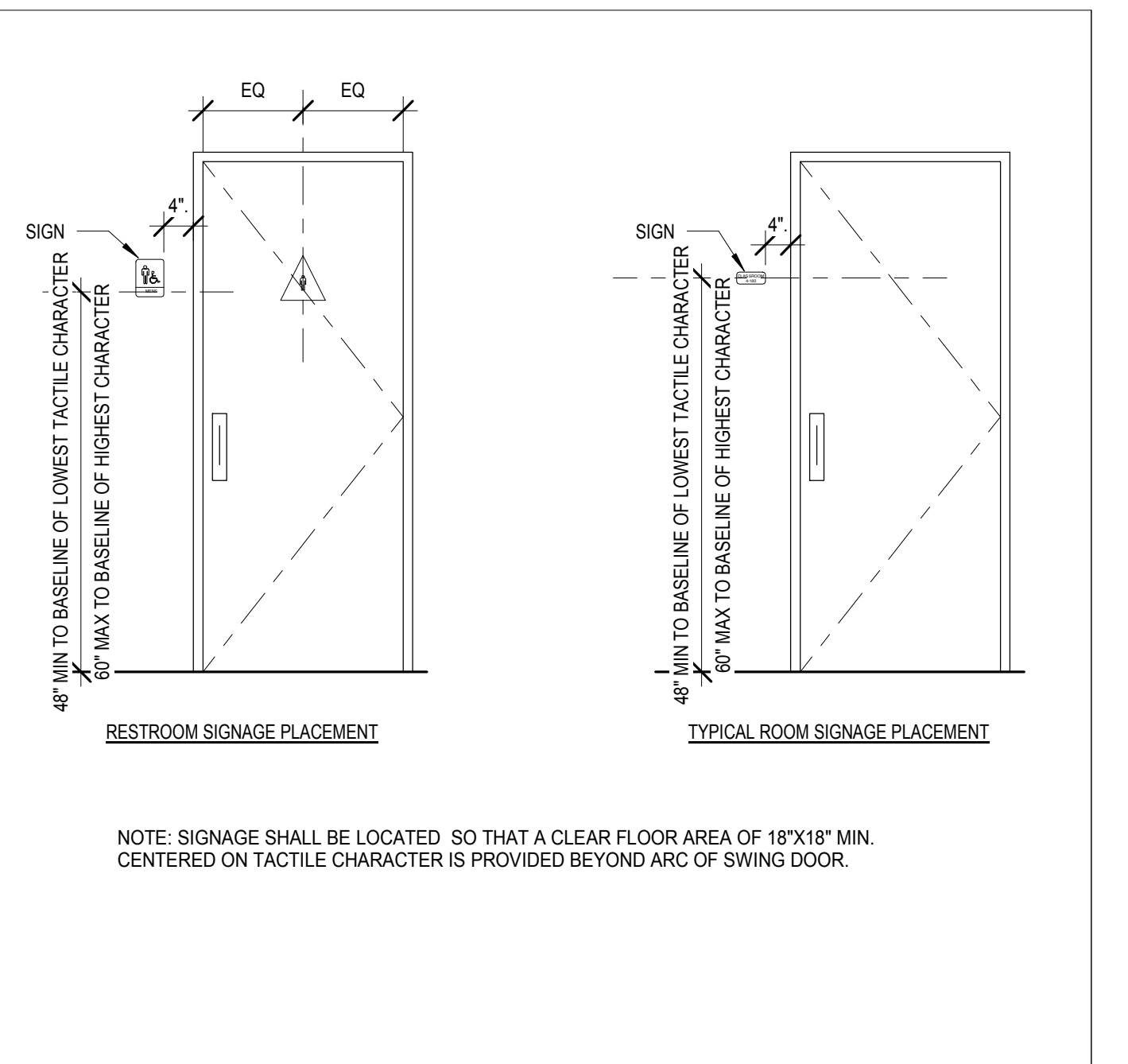
**6** SIGNAGE ATTACHMENT 3" = 1'-0"



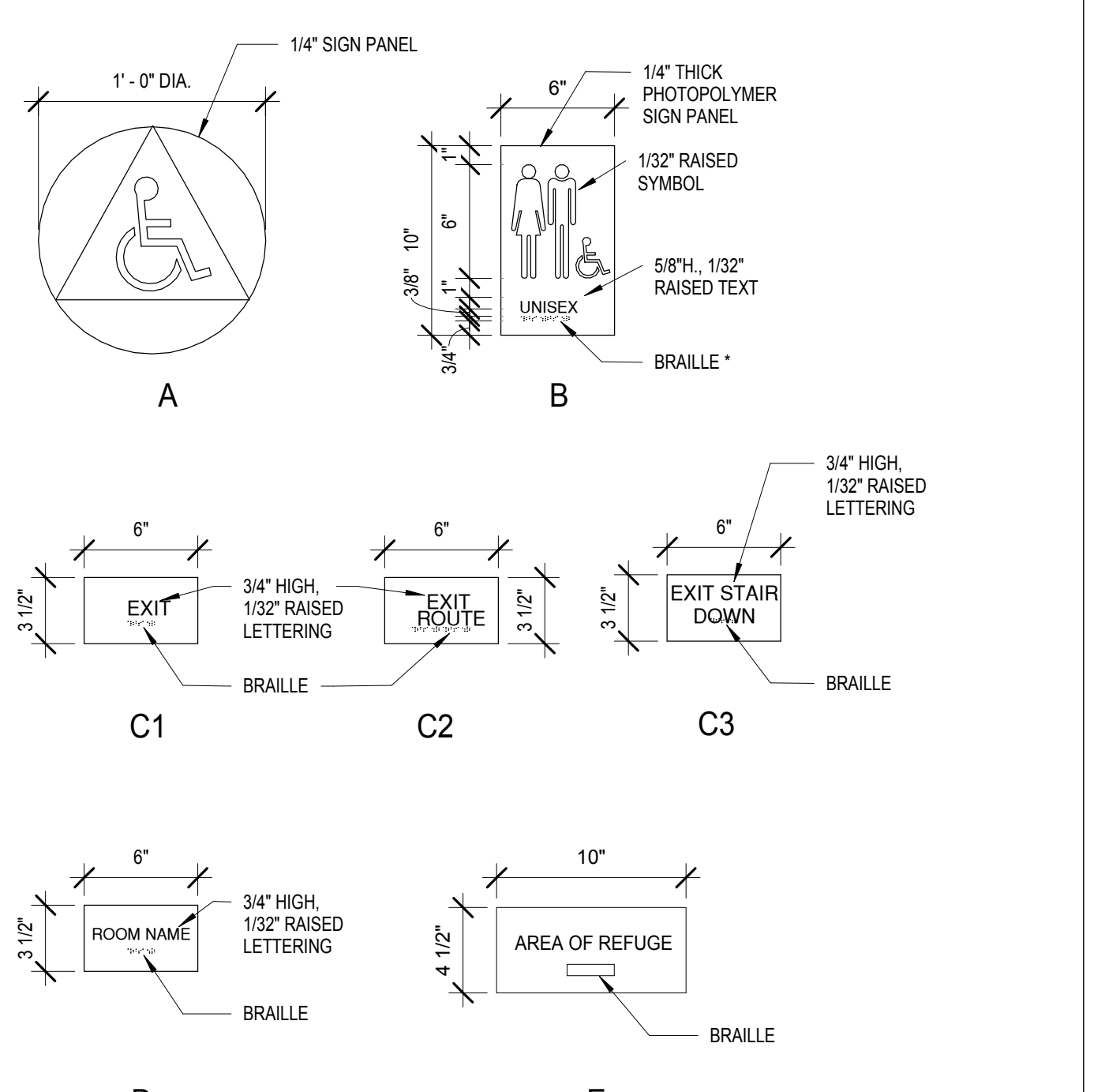
**5** DRINKING FOUNTAIN REQUIREMENTS 1 1/2" = 1'-0"



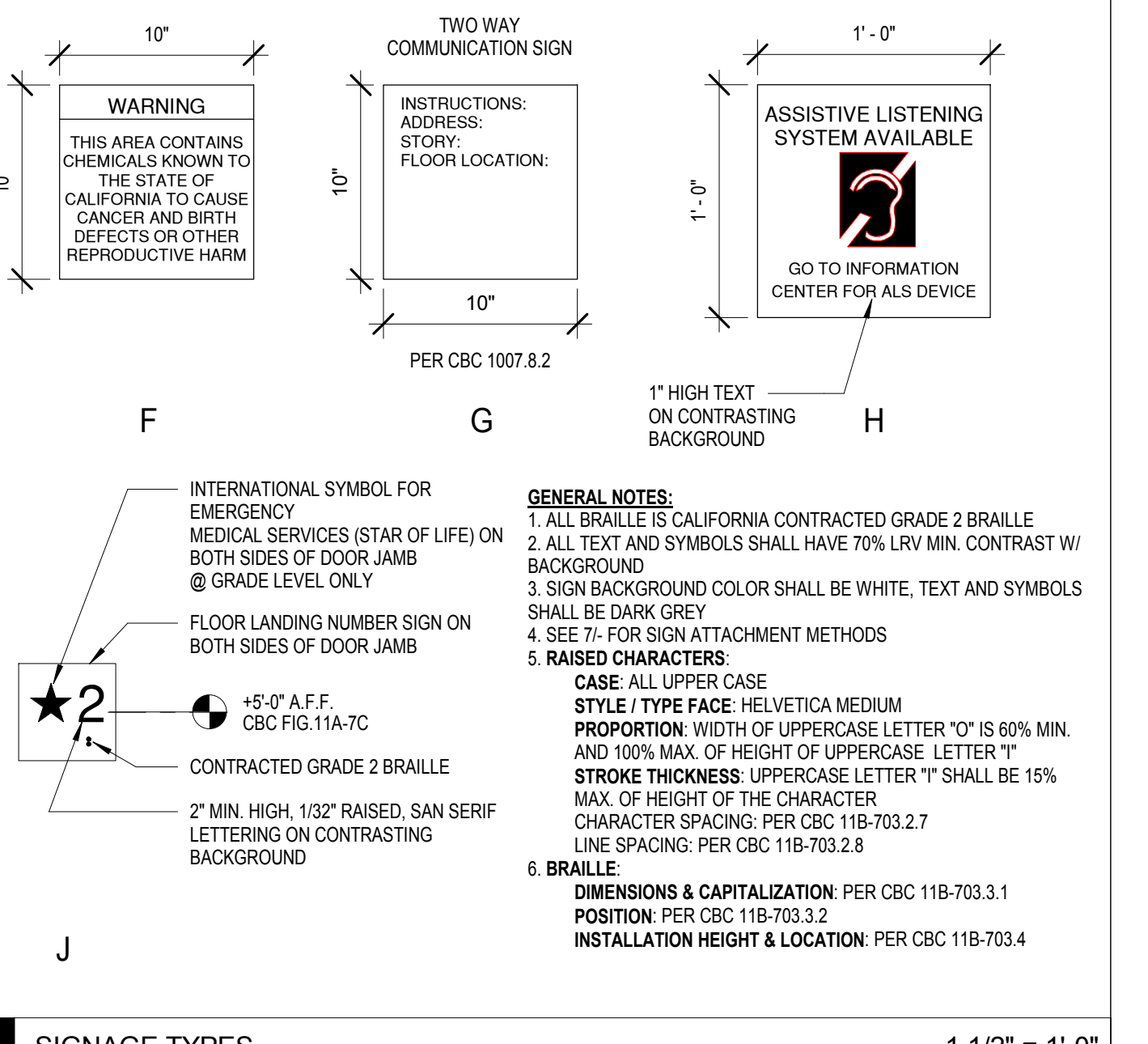
**1** SIGNAGE TYPES 1 1/2" = 1'-0"



**3** TYPICAL ROOM SIGNAGE 3" = 1'-0"



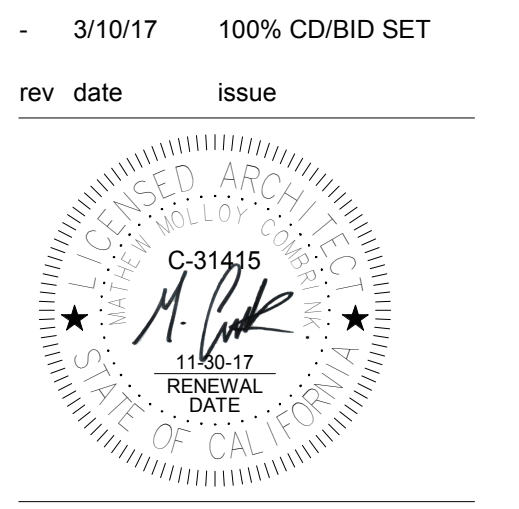
**2** TYP. DEVICE LOCATIONS2 1 1/2" = 1'-0"



**1** SIGNAGE TYPES 1 1/2" = 1'-0"

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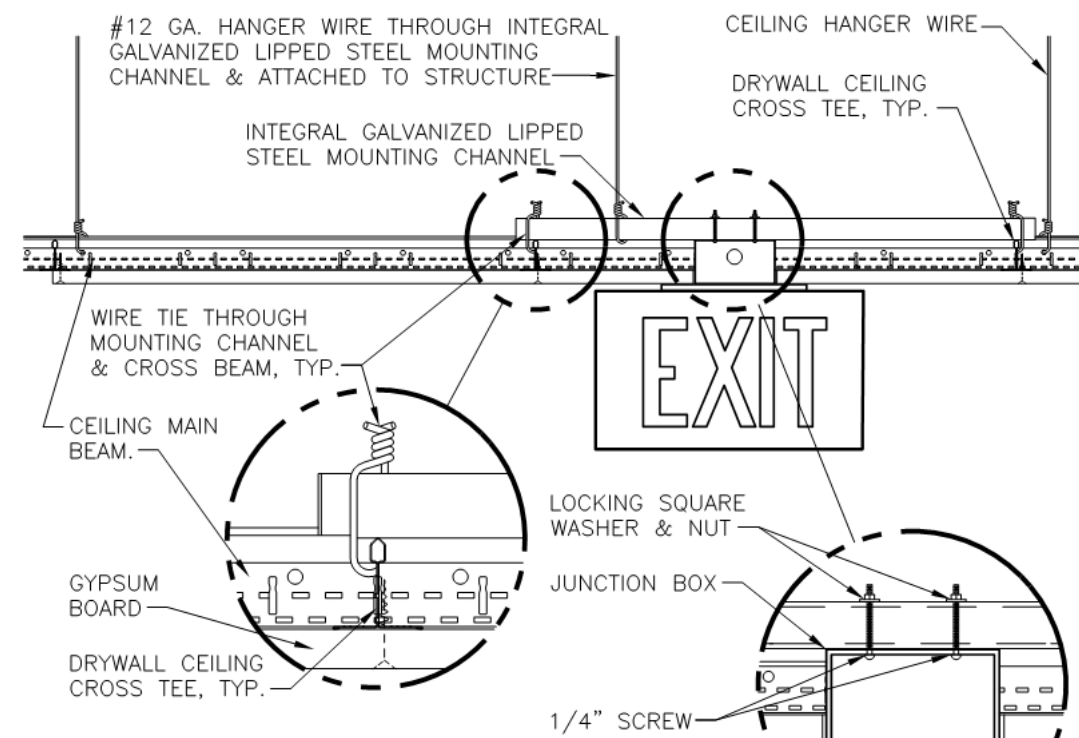
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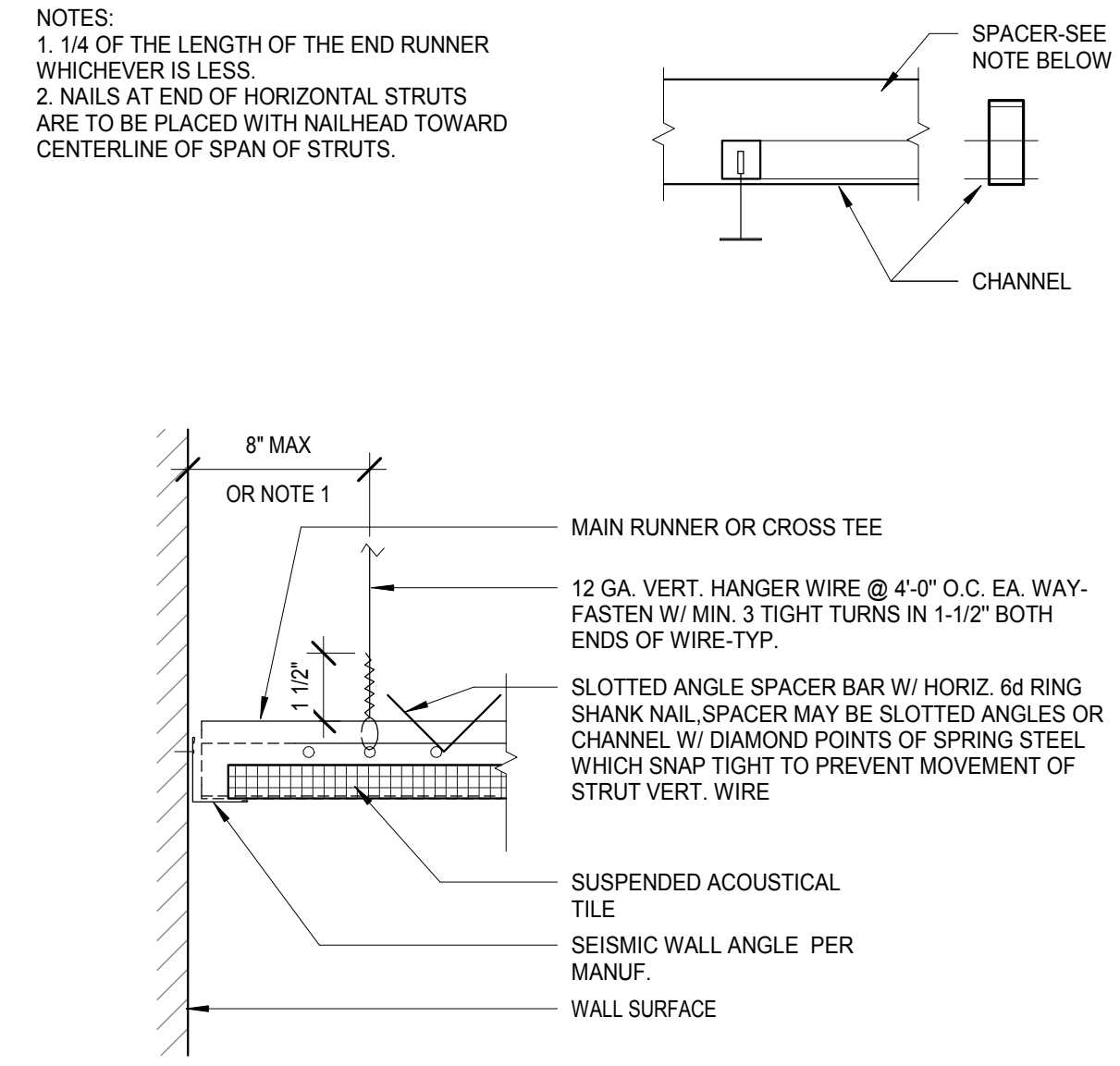
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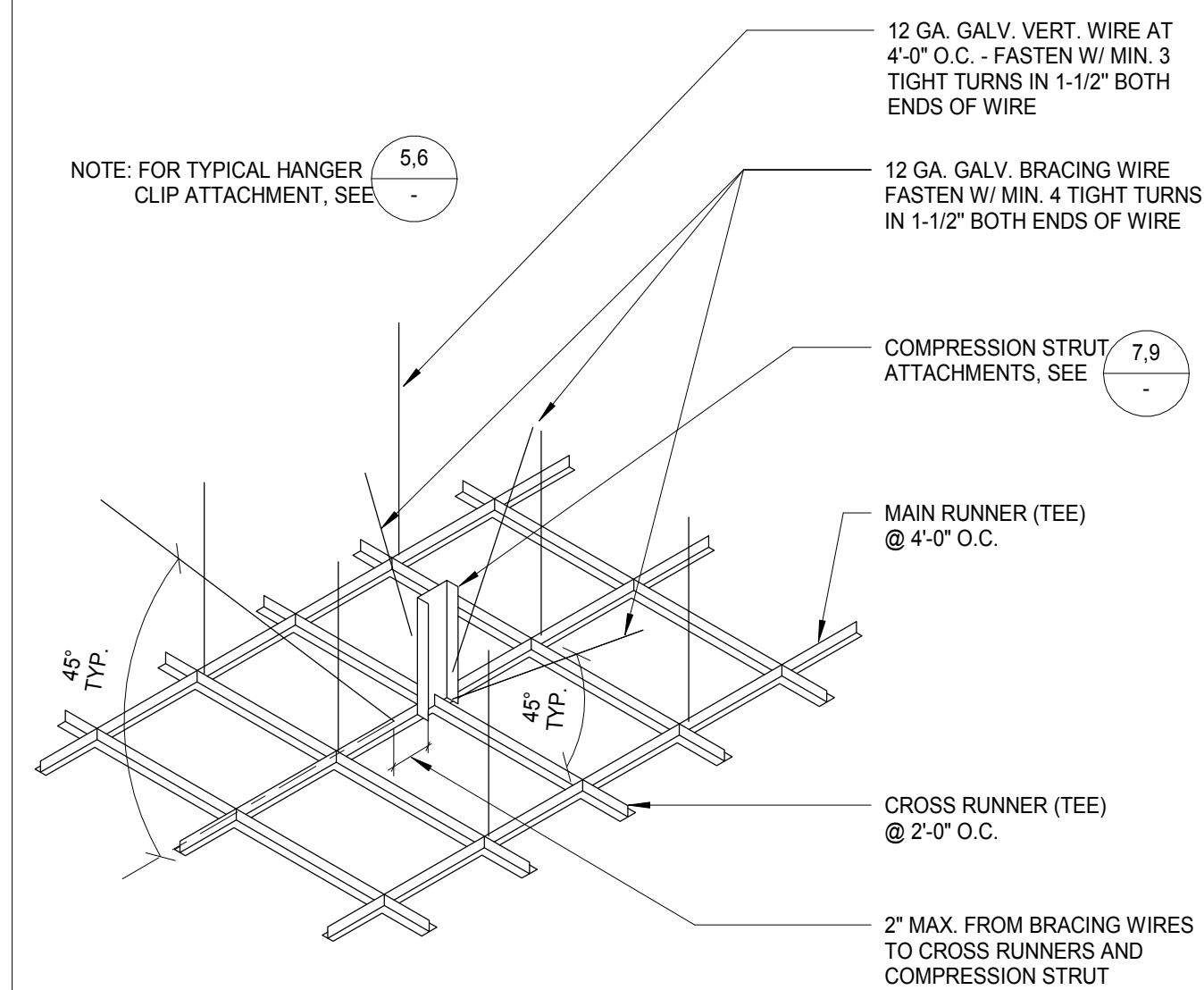
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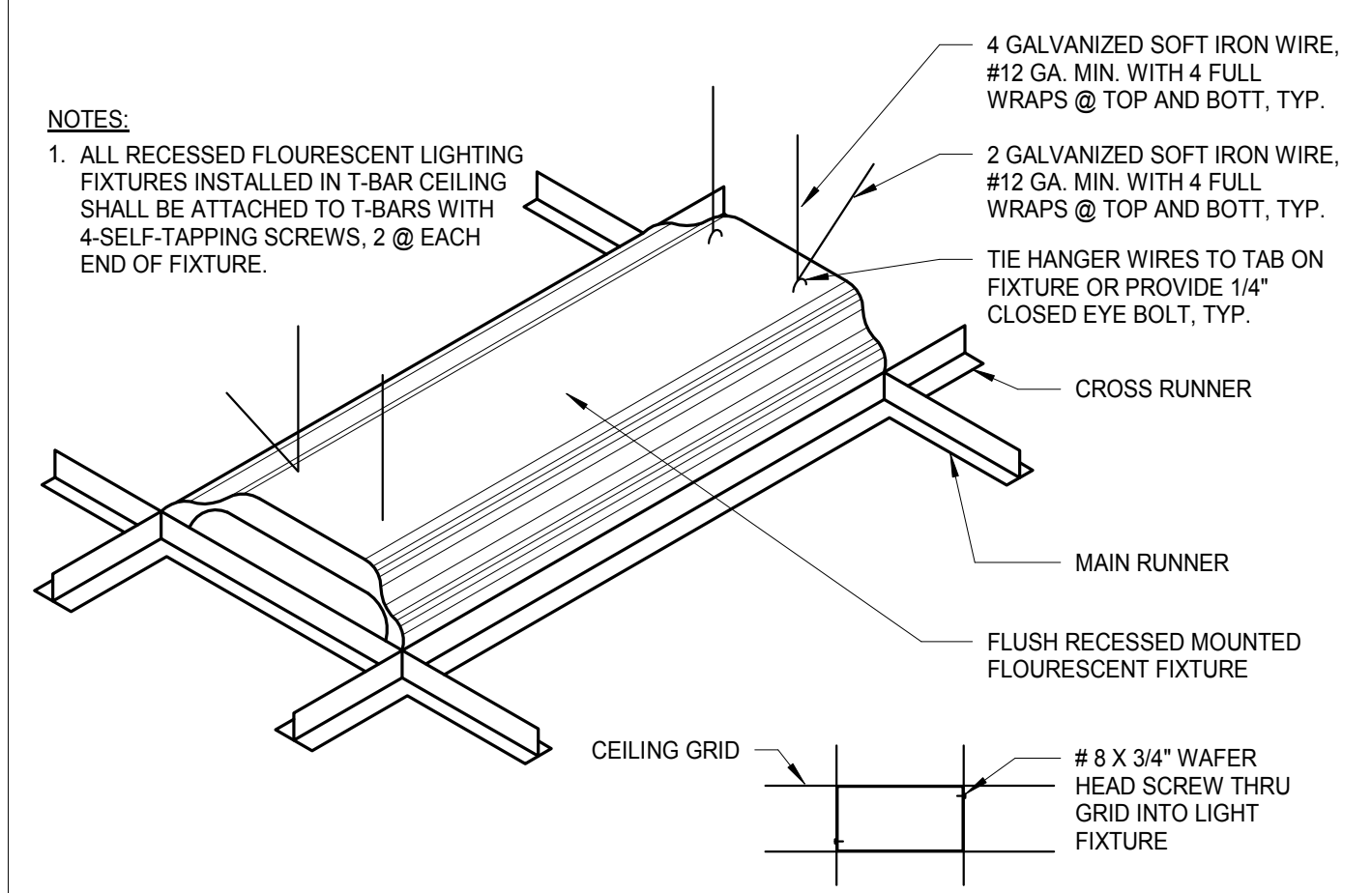
8 TYP. EXIT SIGN MOUNTING ON SUSP. CLNG. 1 1/2" = 1'-0"



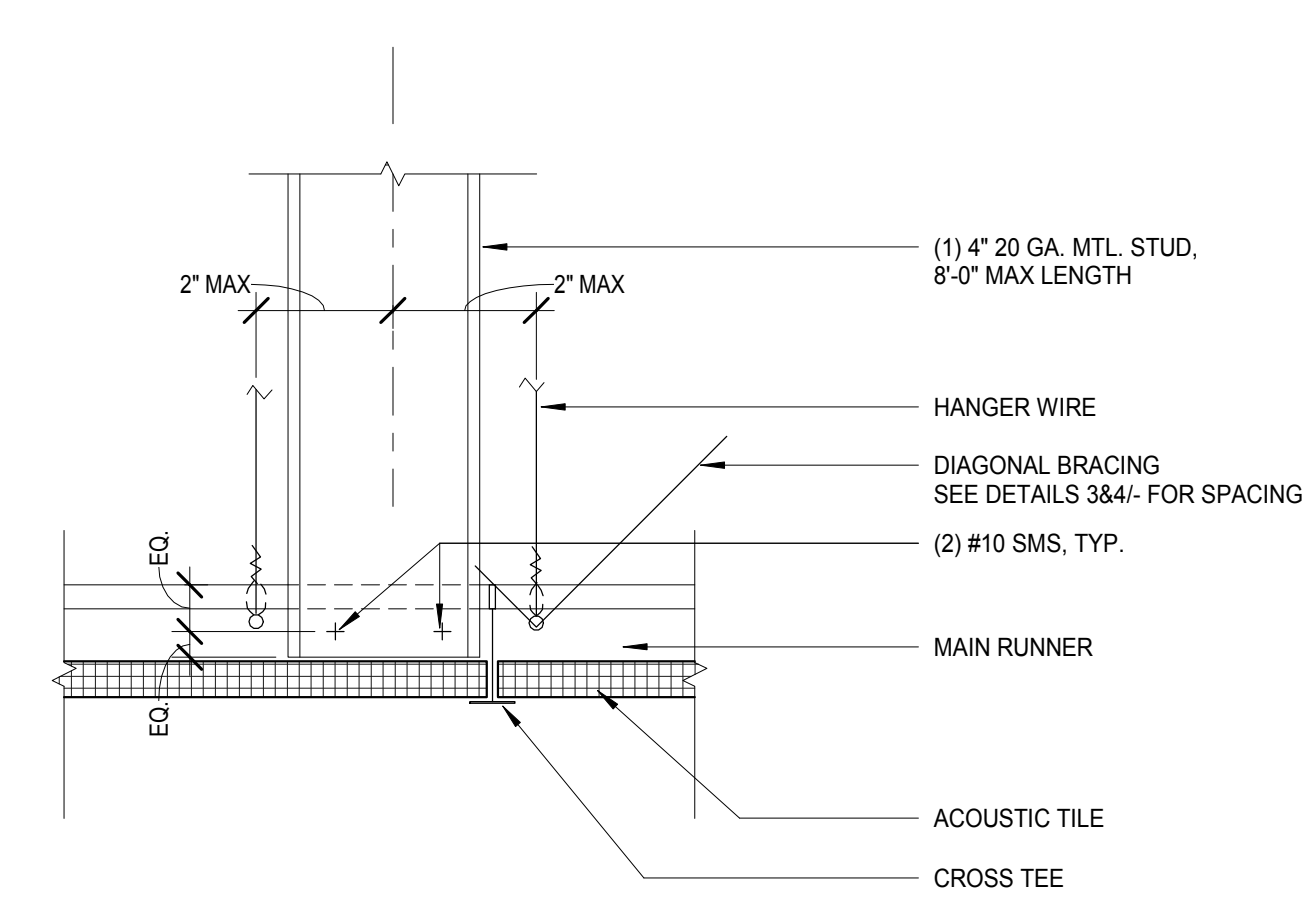
5 TYP. SUSP. ACOUS. CLG. WALL ATTACHMENT 1 3" = 1'-0"



2 TYP. SUSP. ACOUS. CLG. DIAGONAL BRACING 3D1 1 : 3



7 TYP. SUSPENDED LIGHT FIXTURE 3/4" = 1'-0"



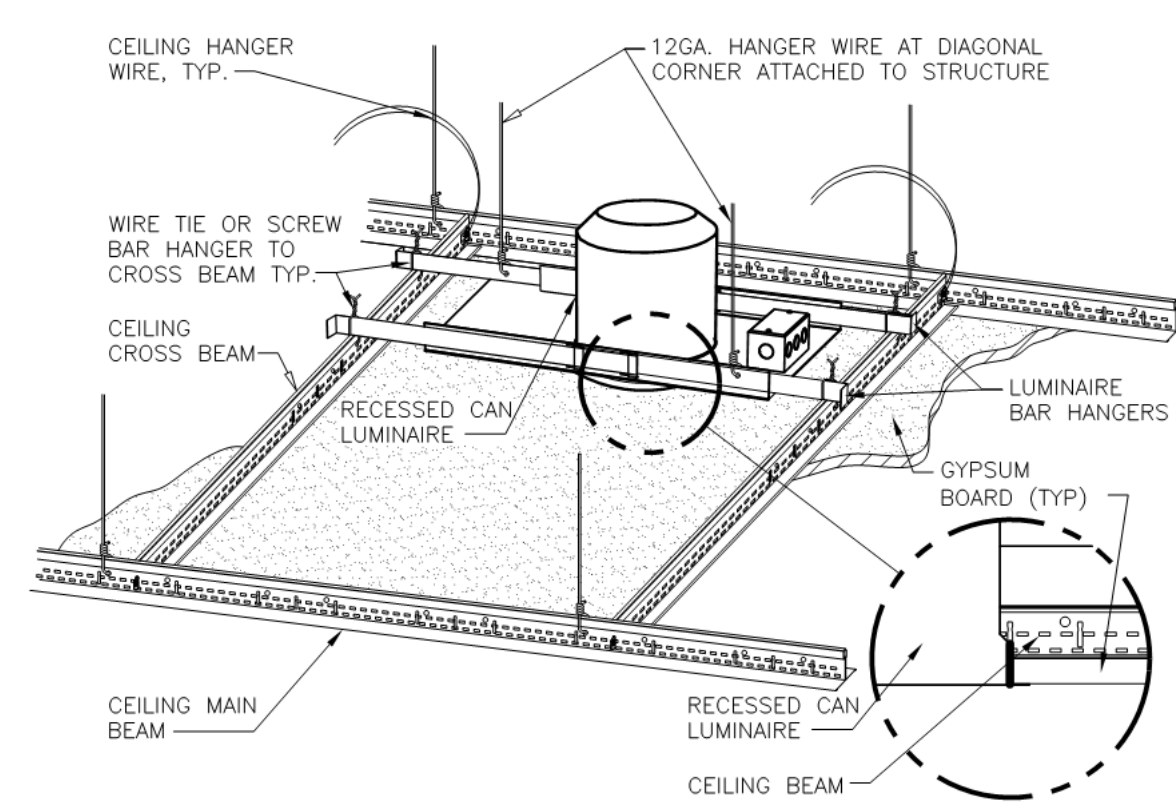
4 TYP. COMPRESSION STRUT @ SUSP. CLG. 1 3" = 1'-0"

**METAL SUSPENSION SYSTEM FOR ACOUSTICAL PANEL, WOOD GRILLE & GYPSUM BOARD CEILINGS**

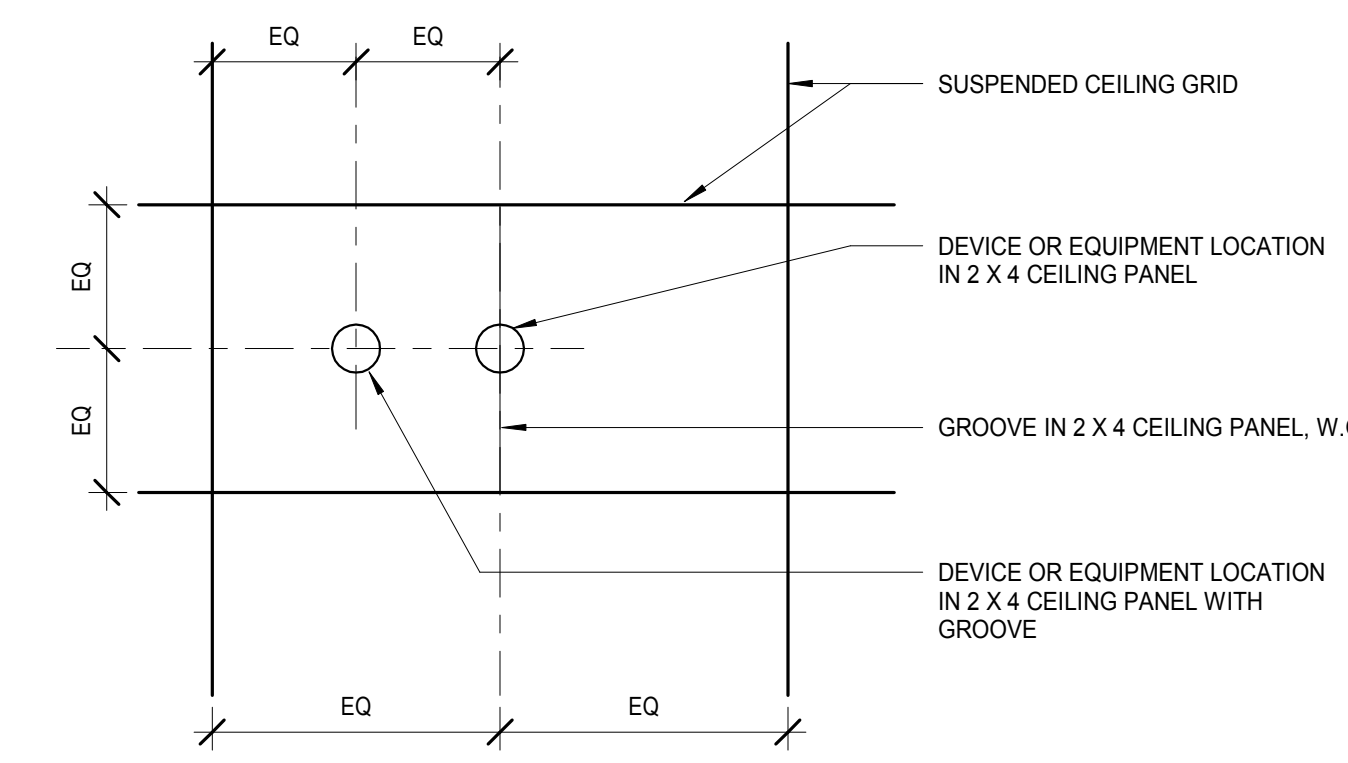
THE FOLLOWING NOTES ARE FOR CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING AIR CONDITIONING/HEATING GRILLS AND LIGHT FIXTURES, DOES NOT EXCEED FOUR (4) PSF. SUSPENDED WOOD GRILLE AND GYPSUM CEILINGS MUST ADHERE TO SYSTEM DESCRIBED IN ICC-ES EVALUATION REPORT ESR-1289. SUSPENDED ACOUSTICAL CEILING TILE CEILINGS MUST ADHERE TO SYSTEM DESCRIBED IN ICC-ES EVALUATION REPORT ESR-1308.

- #12 GAGE (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4 FT. BY 4 FT. GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS.
- PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST. FOR THE PERIMETER OF THE CEILING AREA, END CONNECTIONS FOR RUNNERS WHICH ARE DESIGNED AND DETAILED TO RESIST THE APPLIED VERTICAL AND HORIZONTAL FORCES MAY BE USED IN LIEU OF THE #12 GAGE HANGER WIRES, SUBJECT TO DIVISION OF THE STATE ARCHITECT (DSA) REVIEW AND APPROVAL.
- PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGER WIRES THAT ARE MORE THAN 1 IN 6 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.
- CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF 3/4 INCH CLEAR OF WALL.
- AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A #16 GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12 INCHES OR LESS, THIS INTERLOCK IS NOT REQUIRED.
- PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPAYLED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER (SEE FIGURE 1) AT THE FOLLOWING SPACING:
  - FOR SCHOOL BUILDINGS, PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 12 FT. BY 12 FT. ON CENTER.
  - FOR ESSENTIAL SERVICES BUILDINGS, PLACE BRACING ASSEMBLIES NOT MORE THAN 8 FT. BY 12 FT. ON CENTER.
- SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.
- FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.
 

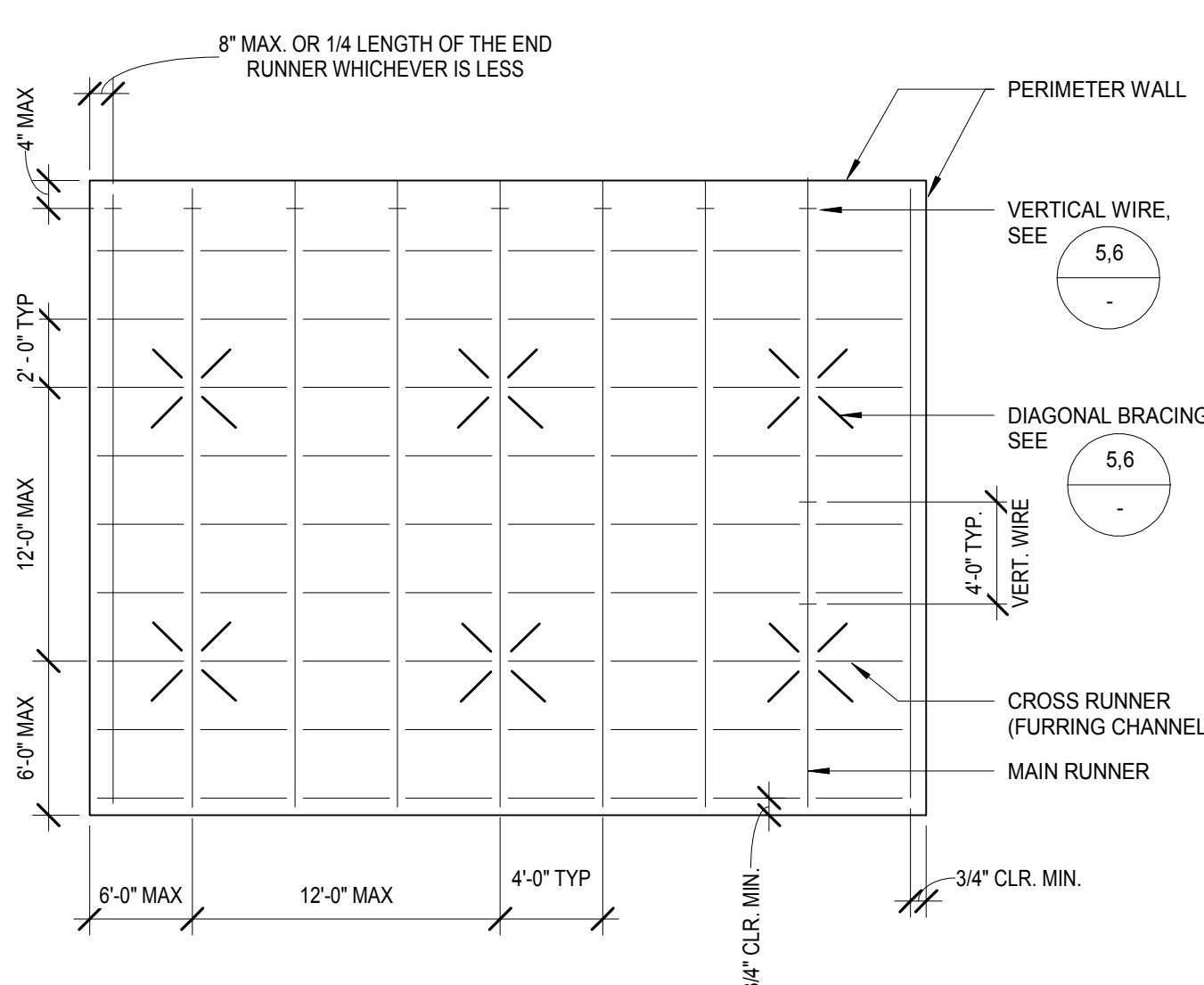
NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE 1-1/2 INCH REQUIREMENT, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.
- SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.
- WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 MUST BE FIELD TESTED FOR 200 LBS. IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 MUST BE FIELD TESTED FOR 440 LBS. IN TENSION. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILLED-IN ANCHOR FAILS, SEE CBC, SECTION 1923A.3.5. NOTE: DRILLED-IN OR SHOT-IN ANCHORS REQUIRE SPECIAL DSA APPROVAL PRIOR TO USE IN PRESTRESSED CONCRETE.
- ATTACH ALL LIGHT FIXTURES AND CEILING MOUNTED AIR TERMINALS, TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED.
- FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS, WEIGHING LESS THAN 56 LBS., MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION THEY MUST HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FT. X 4 FT. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER. ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING 56 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES, EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED. THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.
- ALL FIXTURES AND AIR TERMINALS SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES EACH ATTACHED TO THE FIXTURE OR TERMINAL, AND TO THE STRUCTURE ABOVE.
- SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A #12 GAGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FT. OR LONGER.
- SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY, PER FIGURE 1, IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAIL ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCES.



9 TYP. DOWNLIGHT MOUNTING @ SUSP. CLNG. 1 1/2" = 1'-0"



6 TYP. DEVICE LOCATION @ ACOUS. CLG. 1 3/4" = 1'-0"



3 TYP. SUSP. ACOUS. CLG. DIAG. BRACING PLAN 1 1 : 60

1. GENERAL CEILING NOTES 3" = 1'-0"

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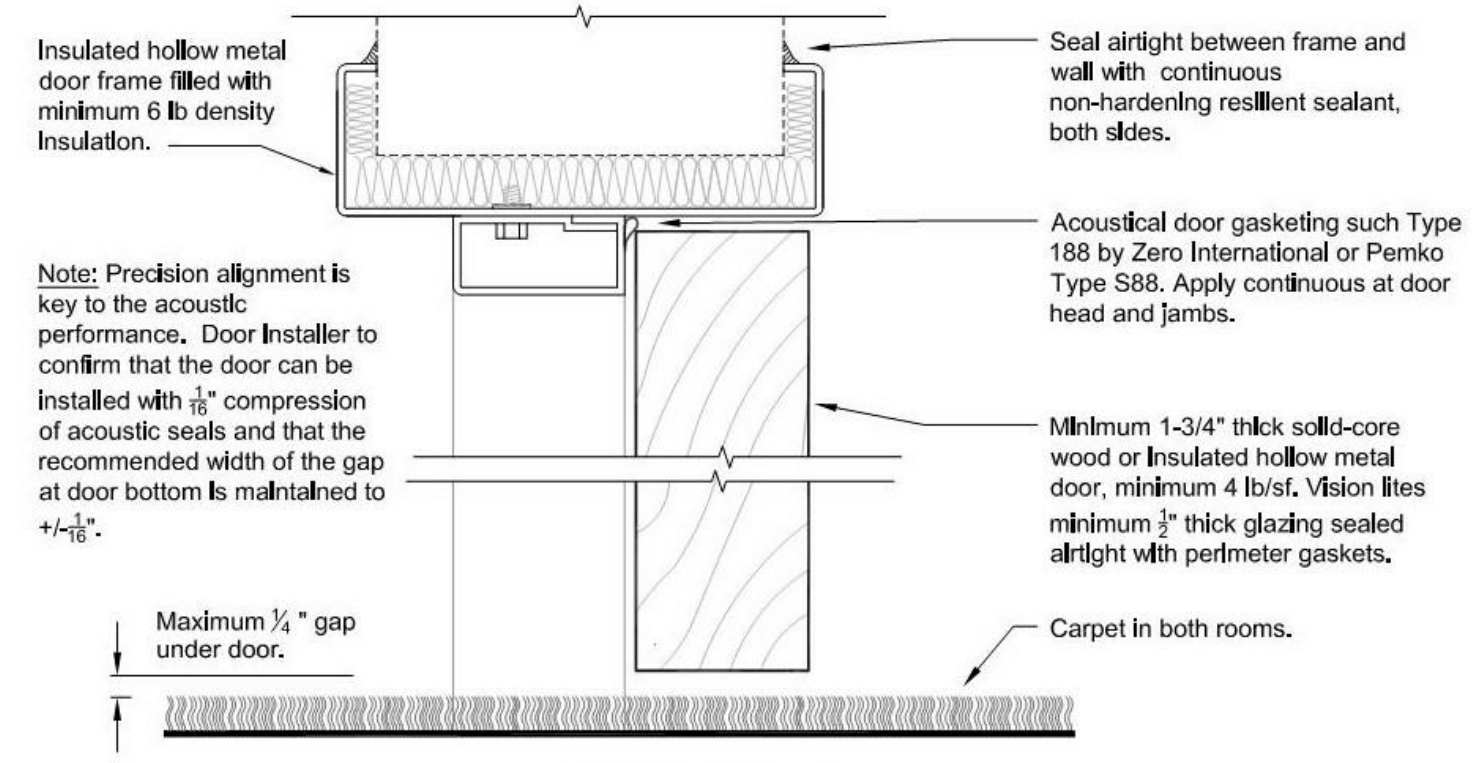
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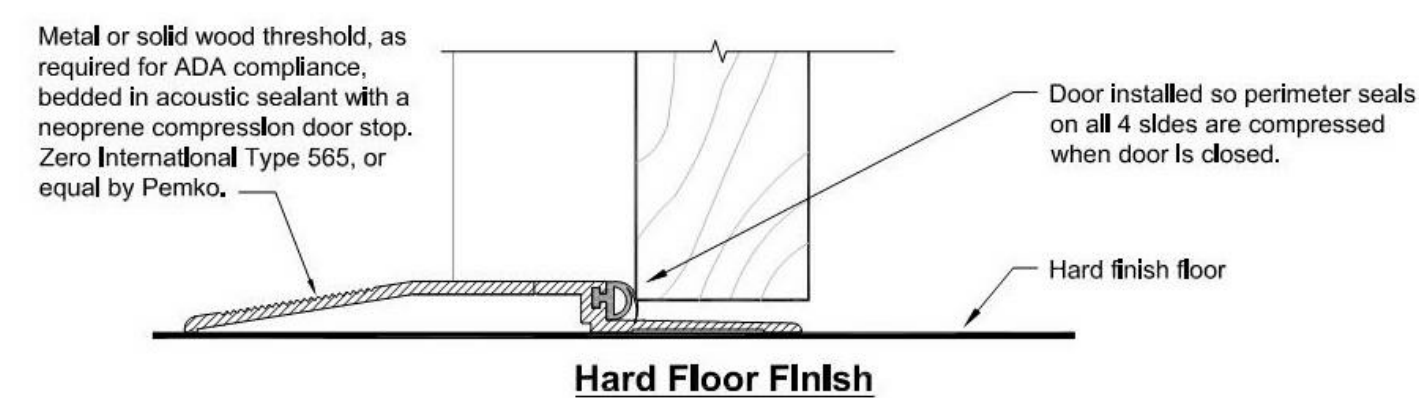
**CONSTRUCTION DOCUMENTS**  
**INTERIOR DETAILS- CEILING**



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**Carpeted Floor**



**Hard Floor Finish**



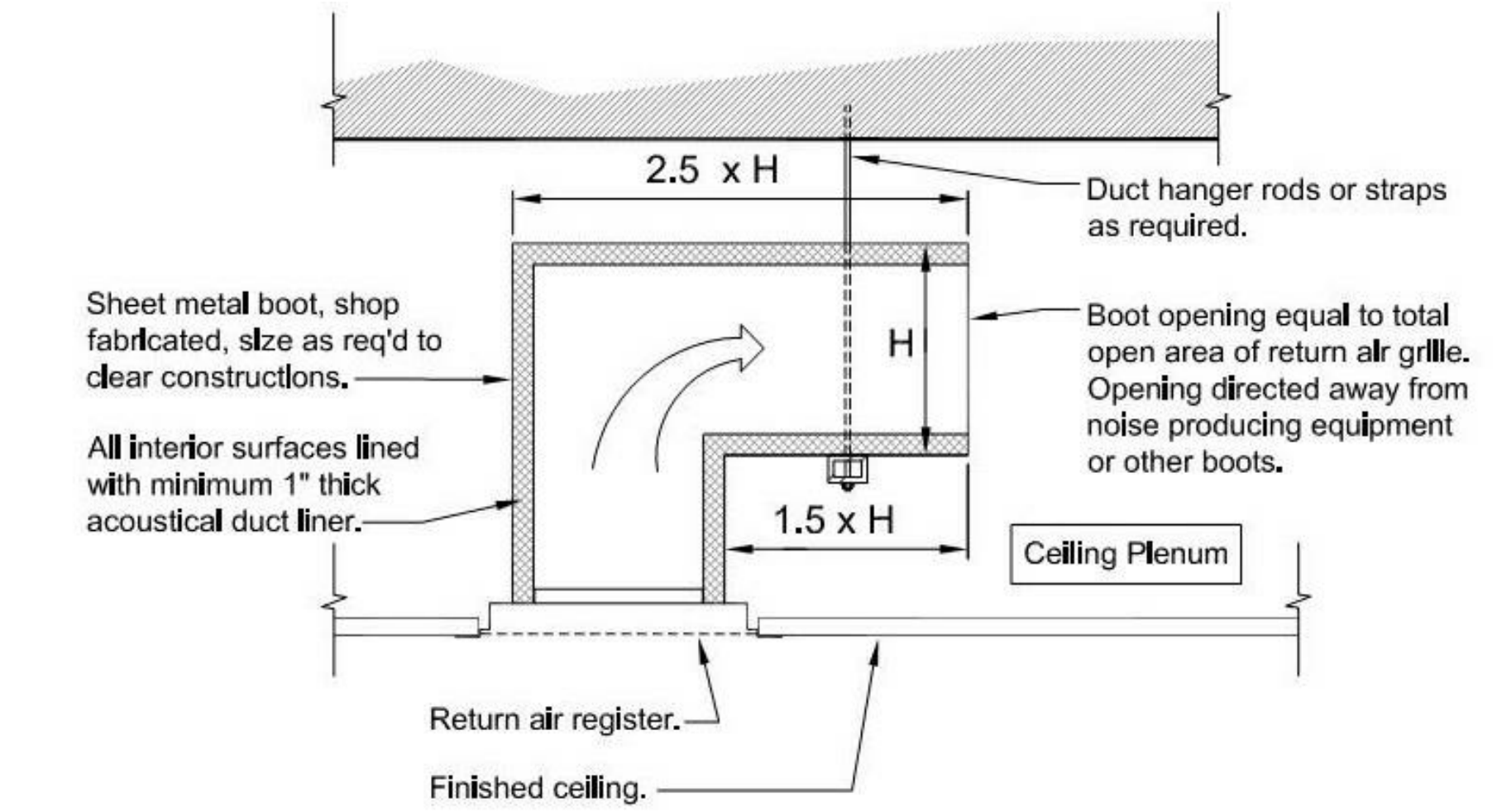
**Hard Floor Finish (Alternate)**

**DOOR TYPE DR1**

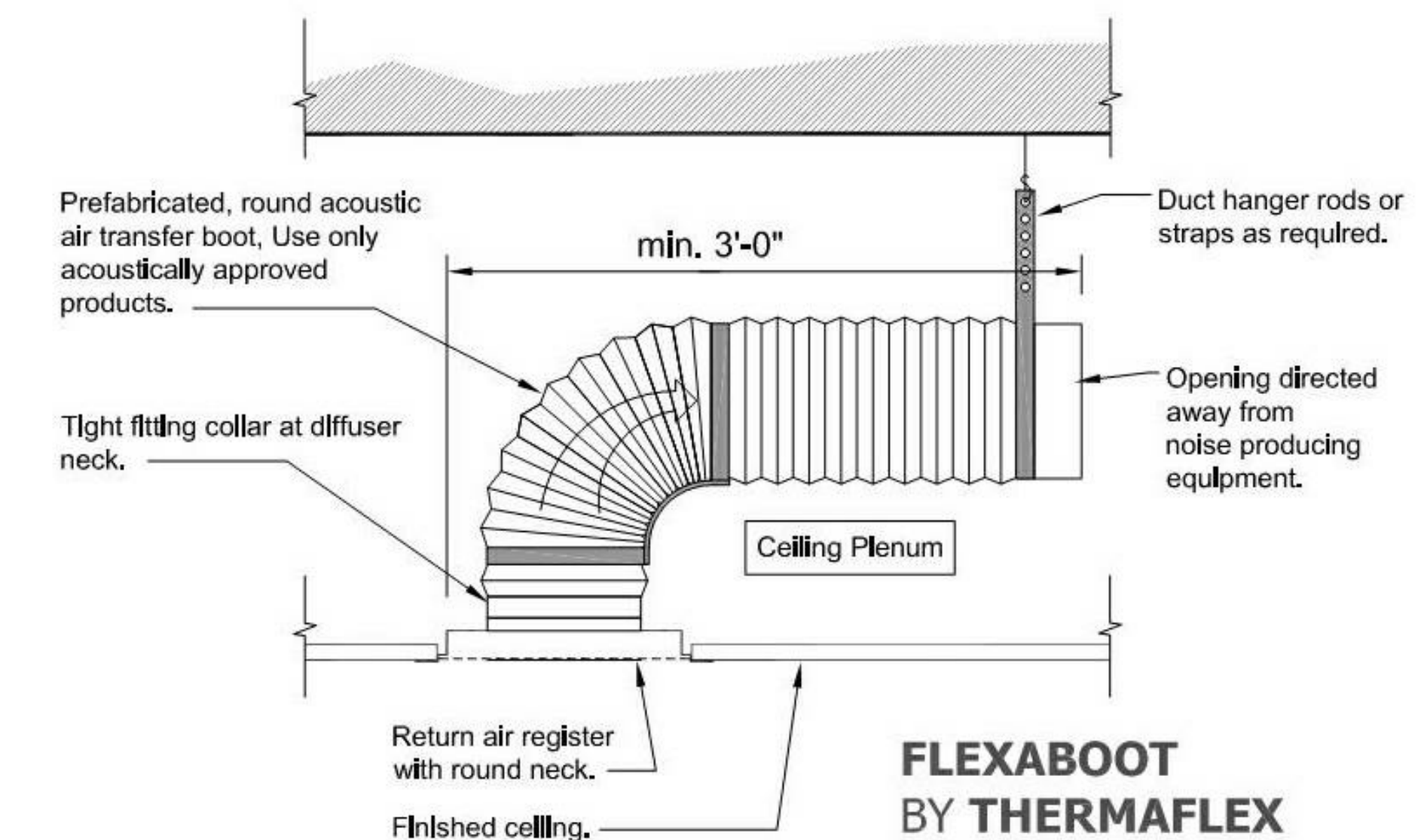
NOTE:  
1. SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION

**5 DOOR ACOUSTIC REQUIREMENTS**

6" = 1'-0"



**Section View Section View**  
not to scale

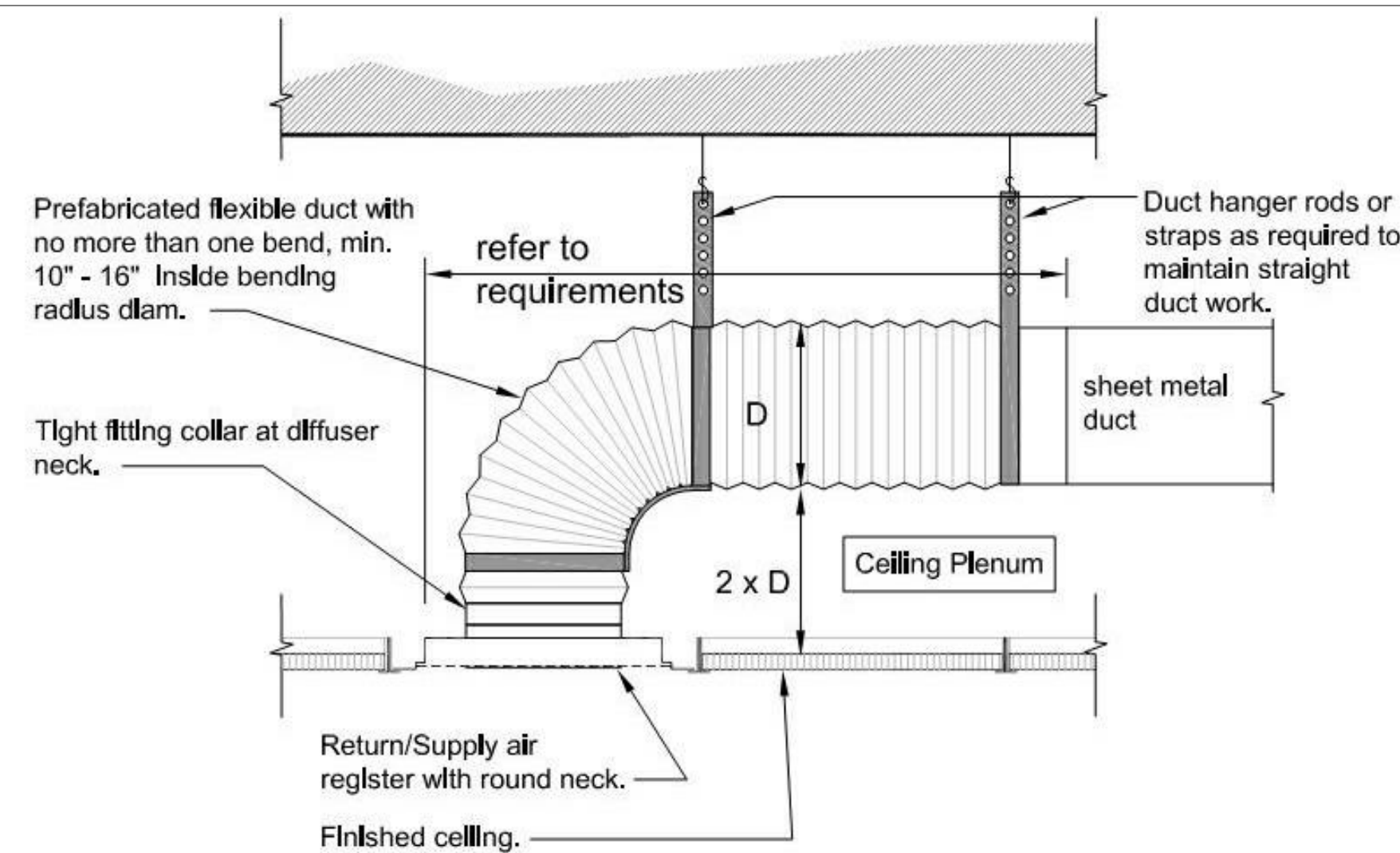


**Section View**  
not to scale

**FLEXABOOT**  
**BY THERMAFLEX**  
1-800-459-4822  
www.wereflexible.com

**2 RETURN AIR BOOT DETAIL @ MEETING ROOMS**

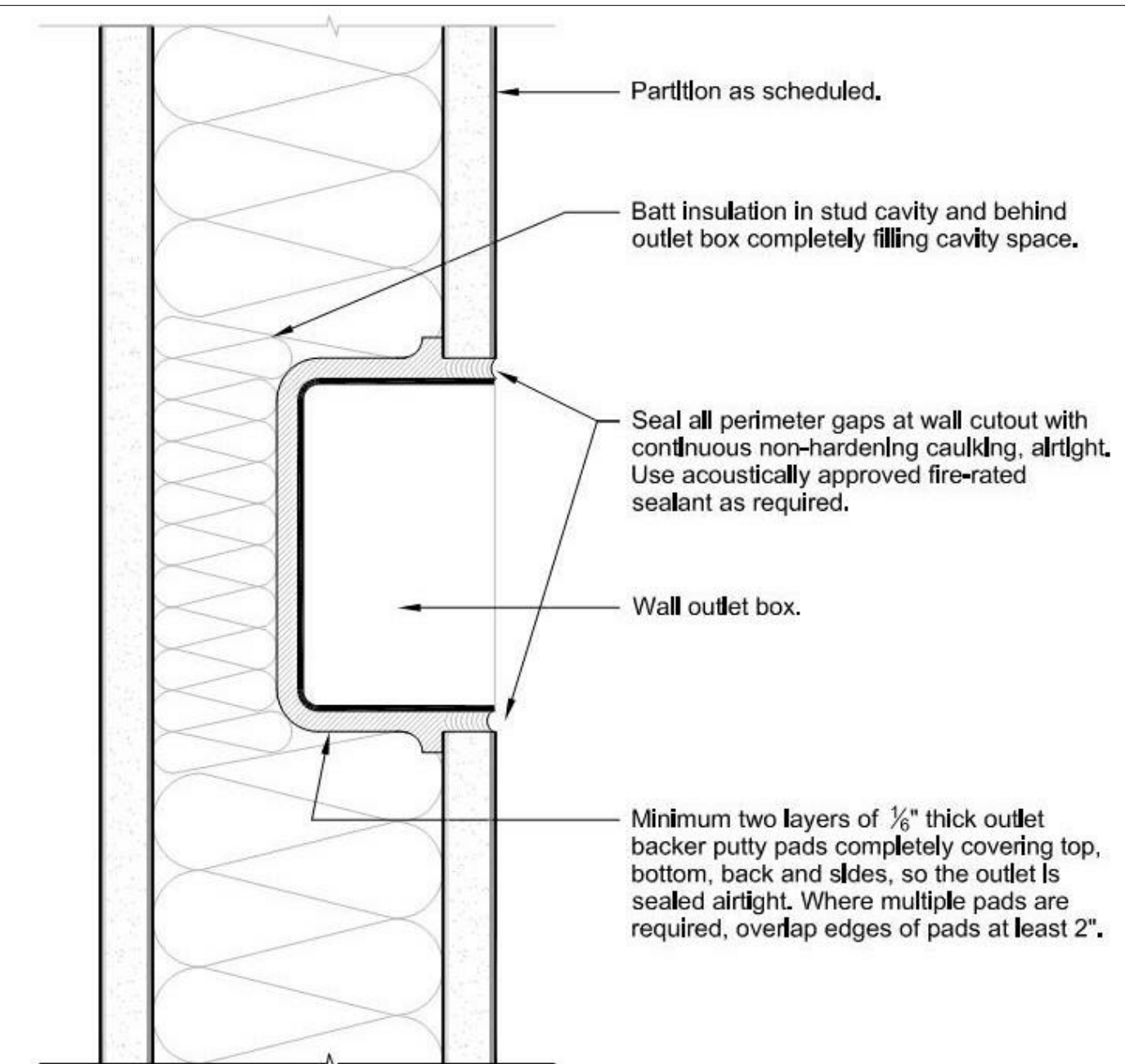
6" = 1'-0"



**Typical Flex Duct Connection**  
not to scale

**4 TYPICAL FLEX DUCT CONNECTION**

6" = 1'-0"



**1 OUTLET BOX SOUND ISOLATION DETAIL**

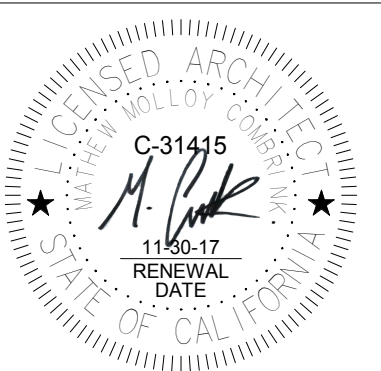
6" = 1'-0"

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renovation

novato, california  
project number: 16-148.01

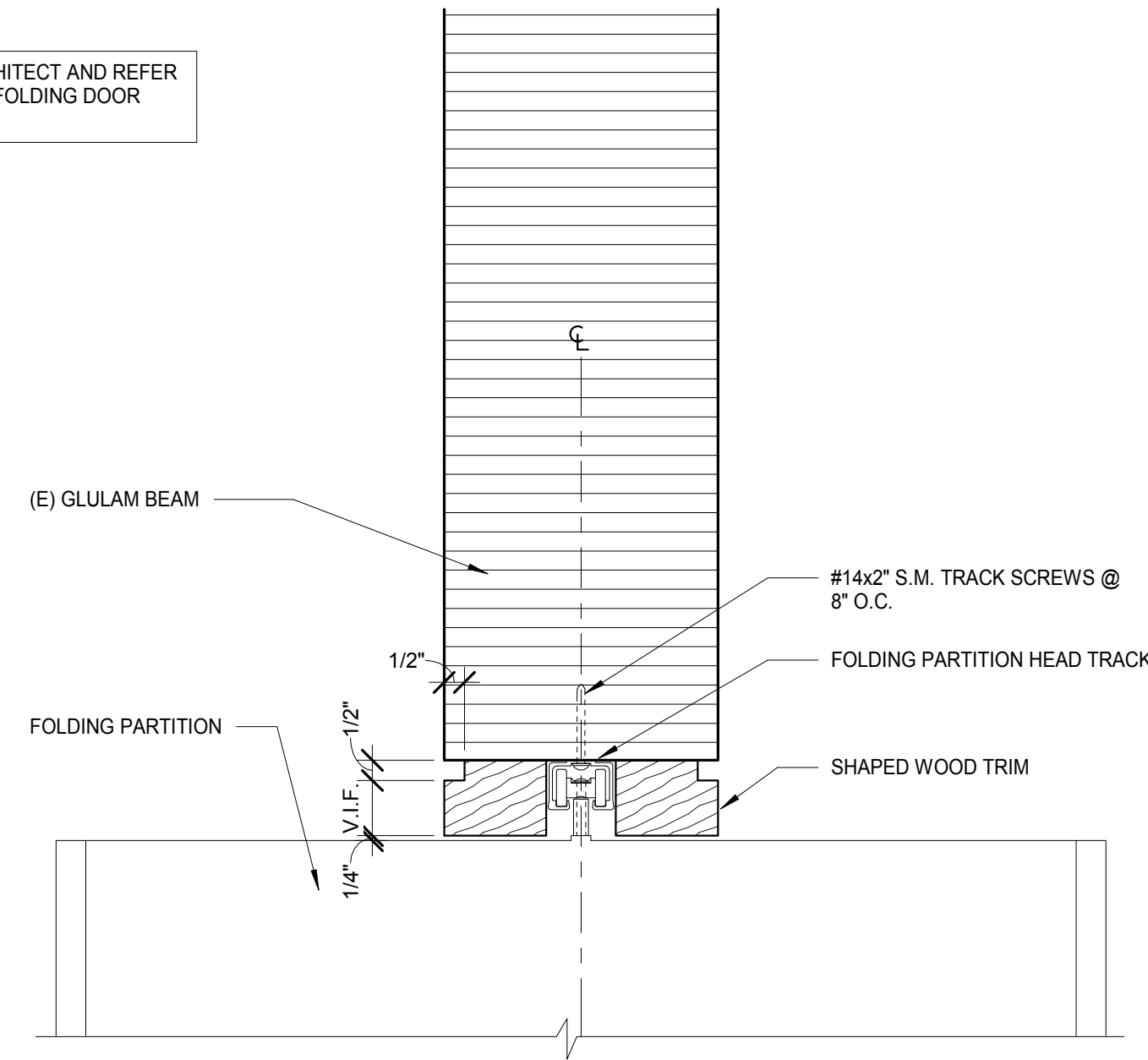
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date: 03/10/2017

CONSTRUCTION  
DOCUMENTS  
INTERIOR  
DETAILS -  
ACOUSTIC

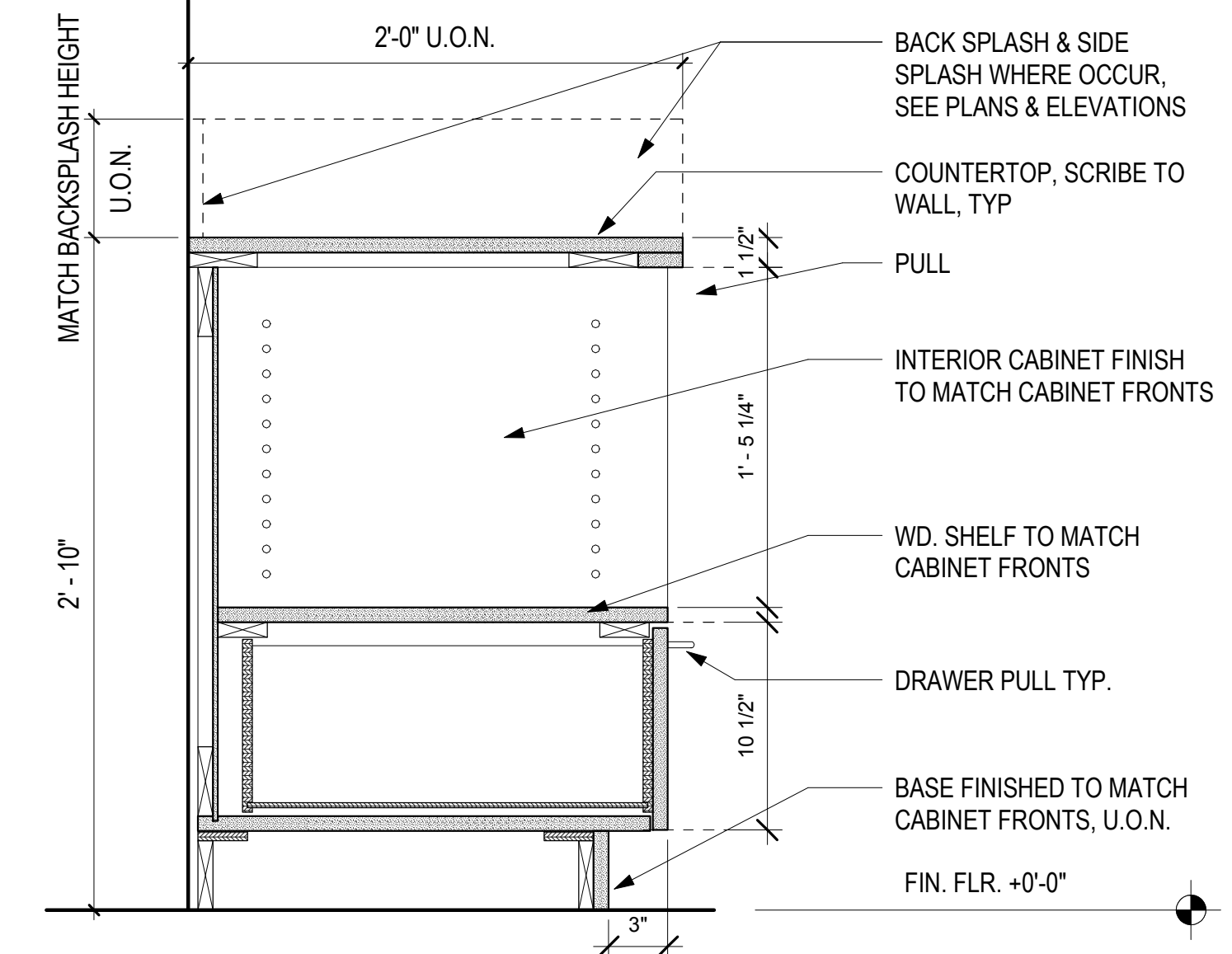


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NOTE: COORDINATE W/ ARCHITECT AND REFER TO ACOUSTIC REPORT FOR FOLDING DOOR ACOUSTIC ISOLATION

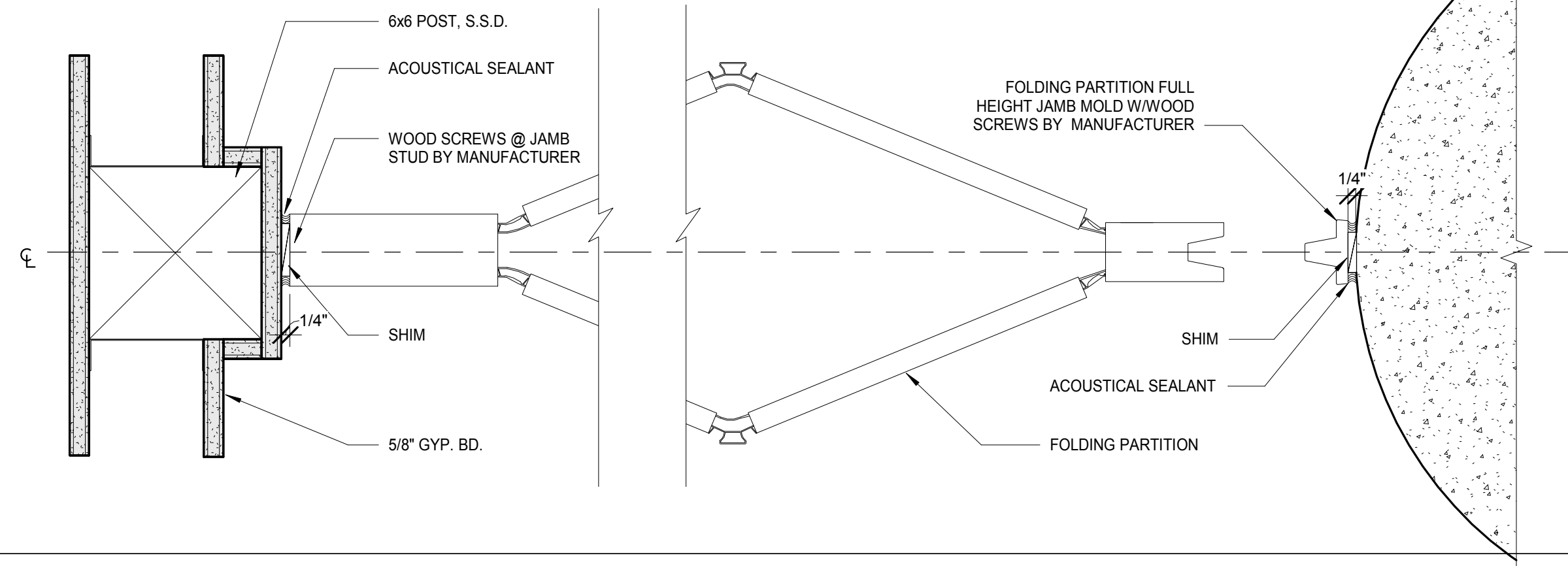


6 FOLDING PARTITION HEAD 3\"/>

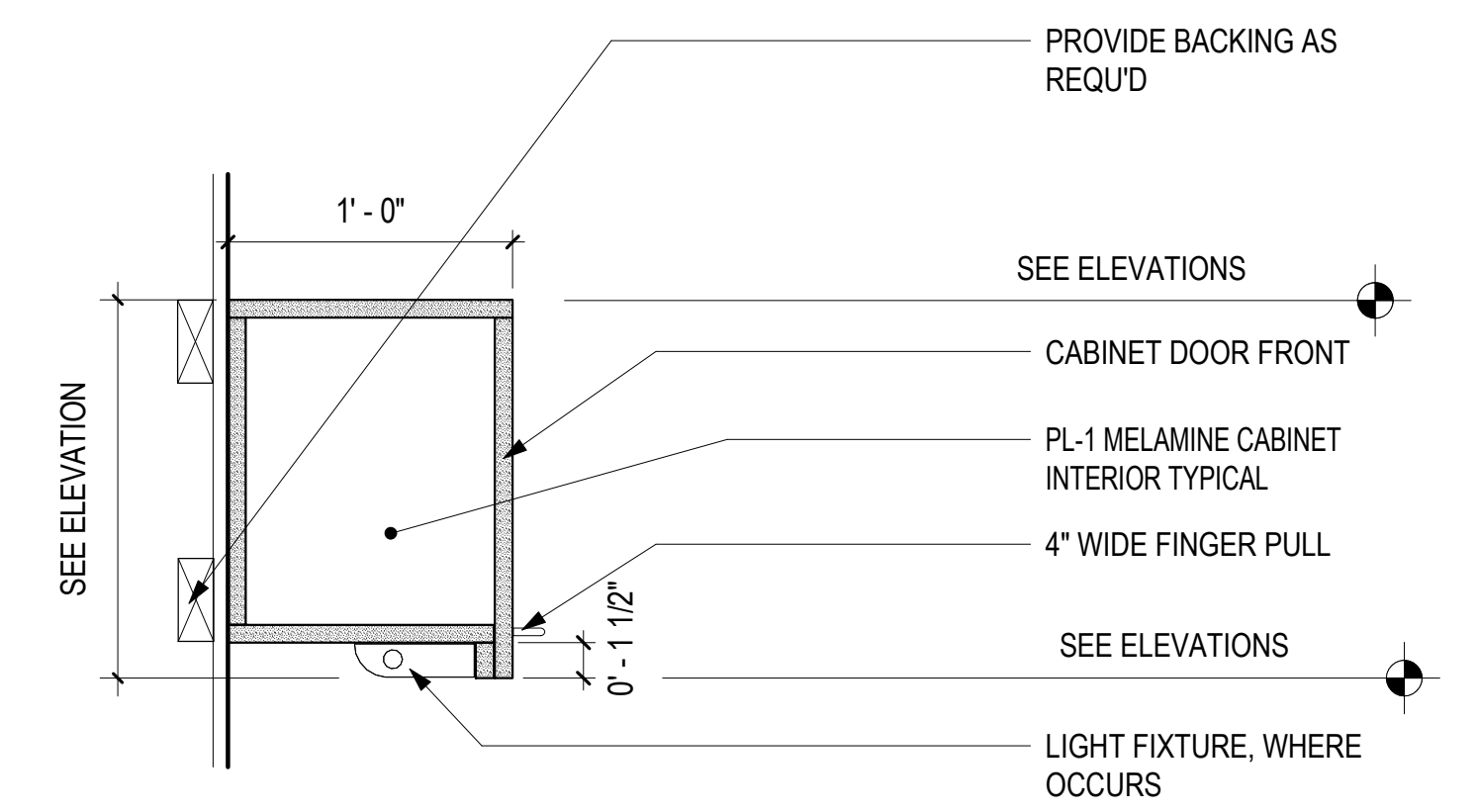


3 TYPICAL BASE CABINET WITH 1 DRAWER AT MICROWAVE 1 1/2\"/>

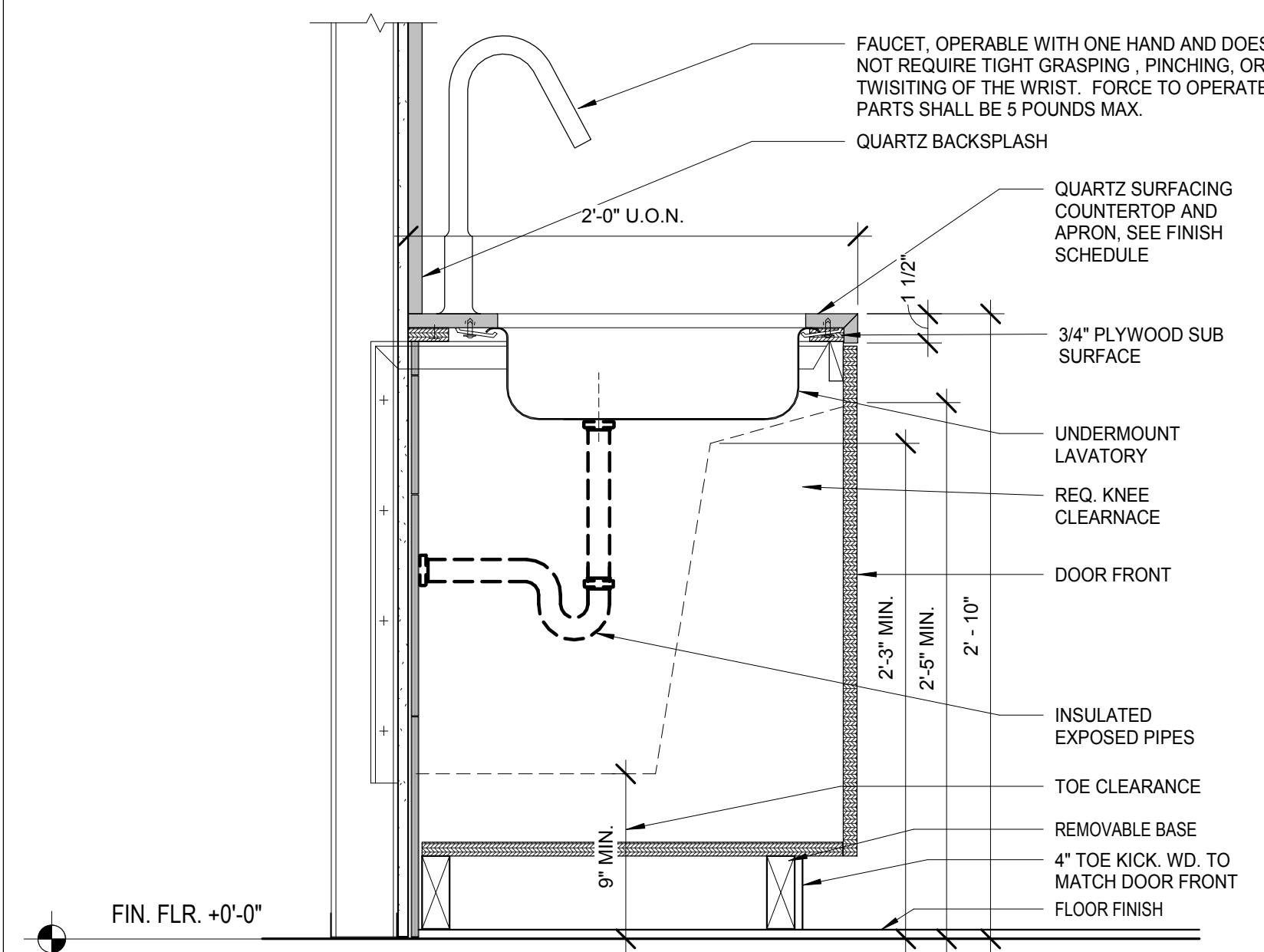
NOTE:  
1. COORDINATE W/ ARCHITECT AND REFER TO ACOUSTIC REPORT FOR FOLDING DOOR ACOUSTIC ISOLATION  
2. FOR FOLDING PARTITION HEAD DETAIL SEE 6/A9.10



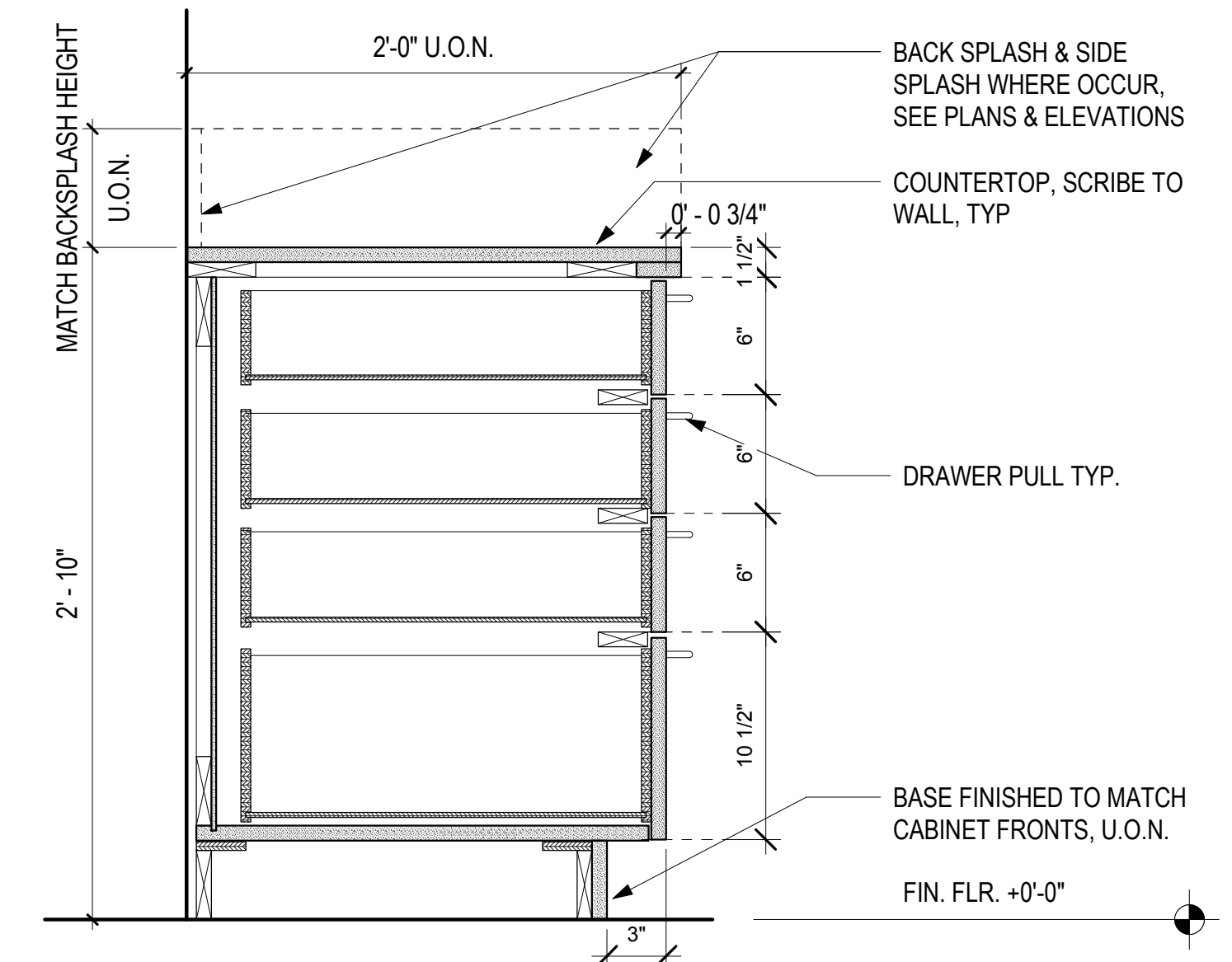
5 FOLDING PARTITION JAMB 3\"/>



2 UPPER CABINET WITH DOOR 1 1/2\"/>



4 KITCHEN SINK BASE CABINET 1 1/2\"/>



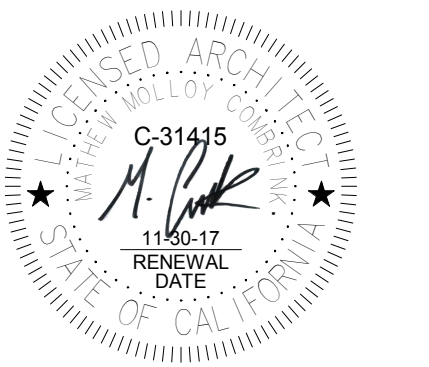
1 TYPICAL BASE CABINET WITH 4 DRAWERS (KITCHEN) 1 1/2\"/>

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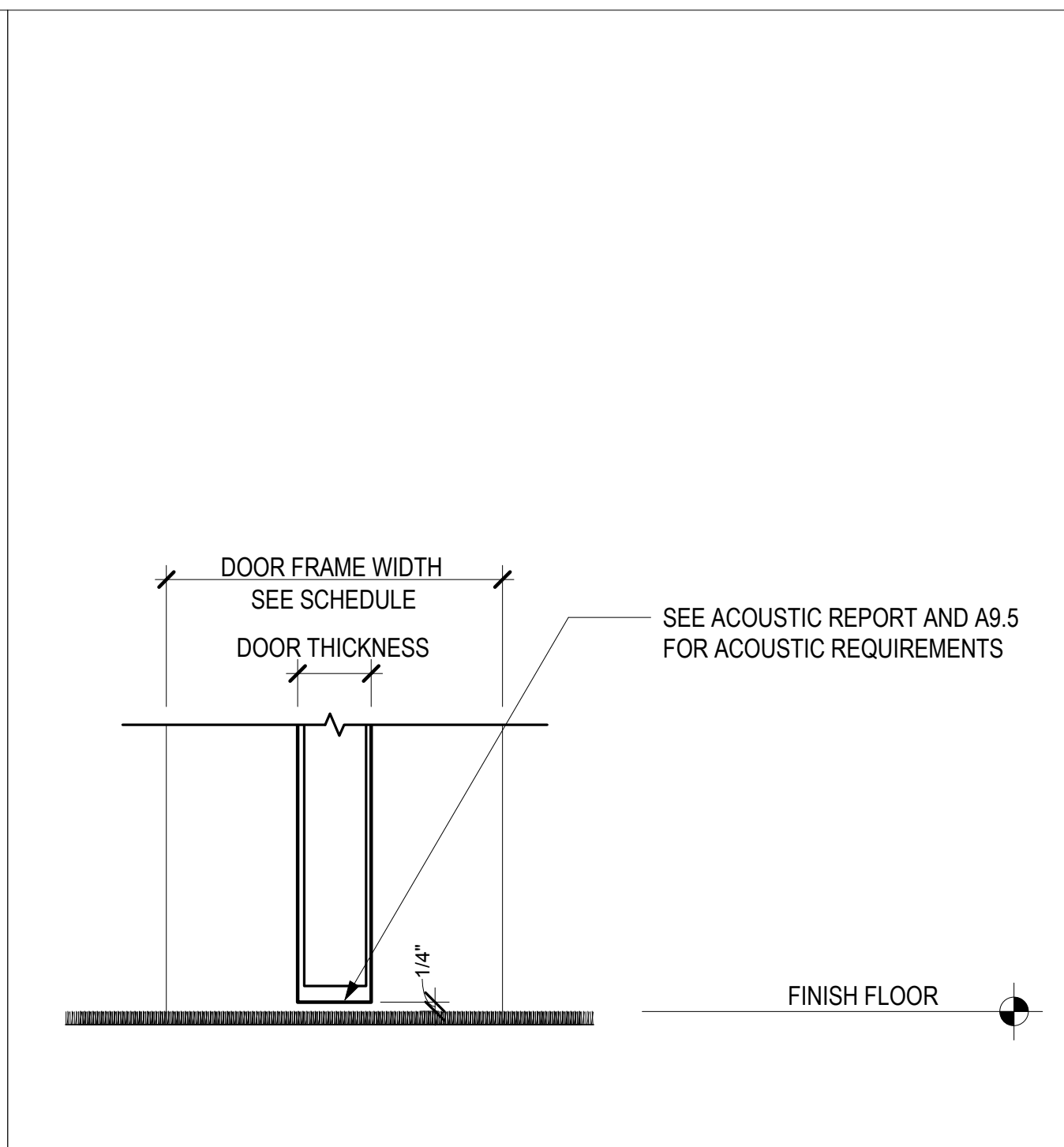
CONSTRUCTION  
DOCUMENTS

INTERIOR  
DETAILS -  
MILLWORK

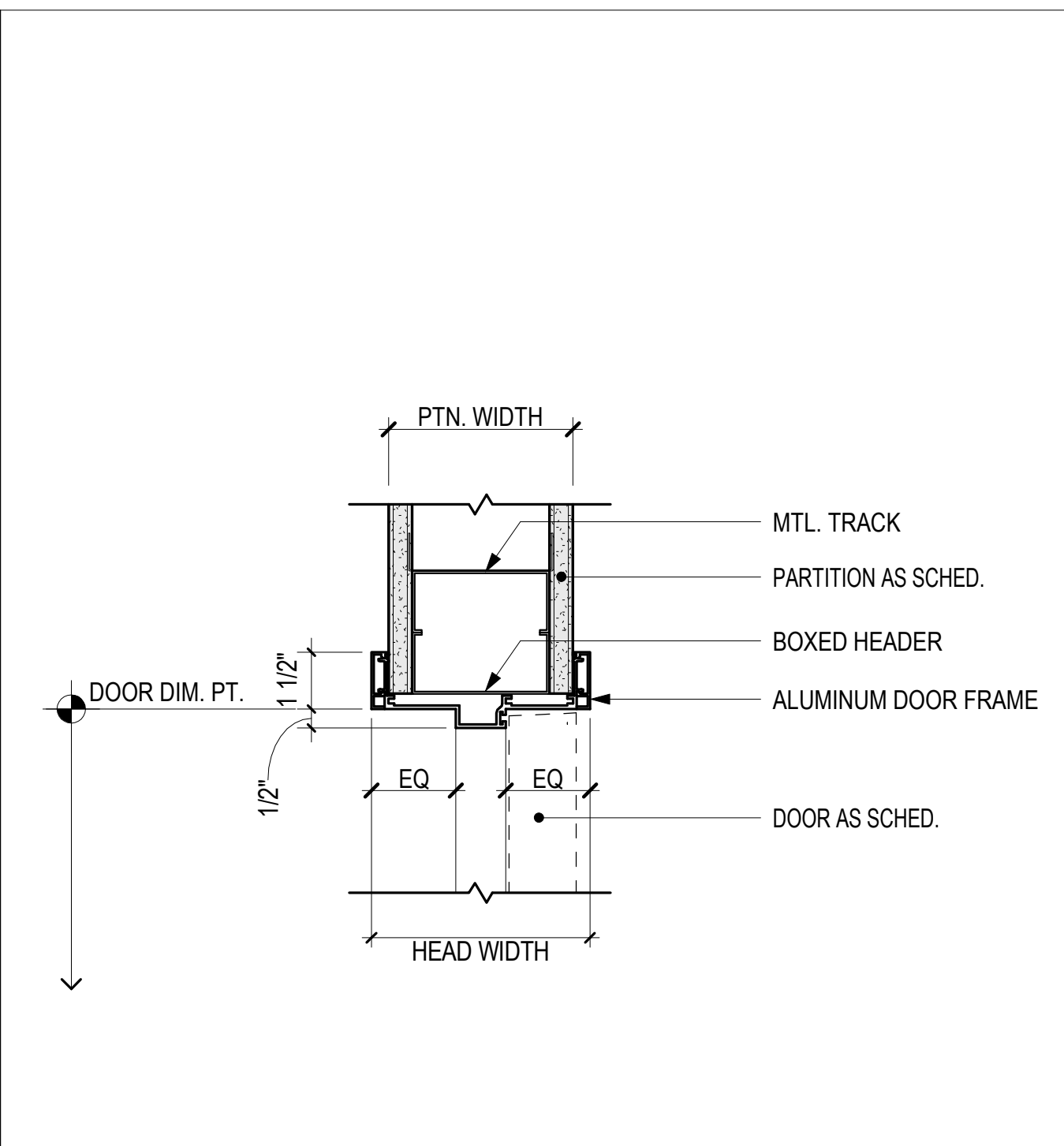
A9.10



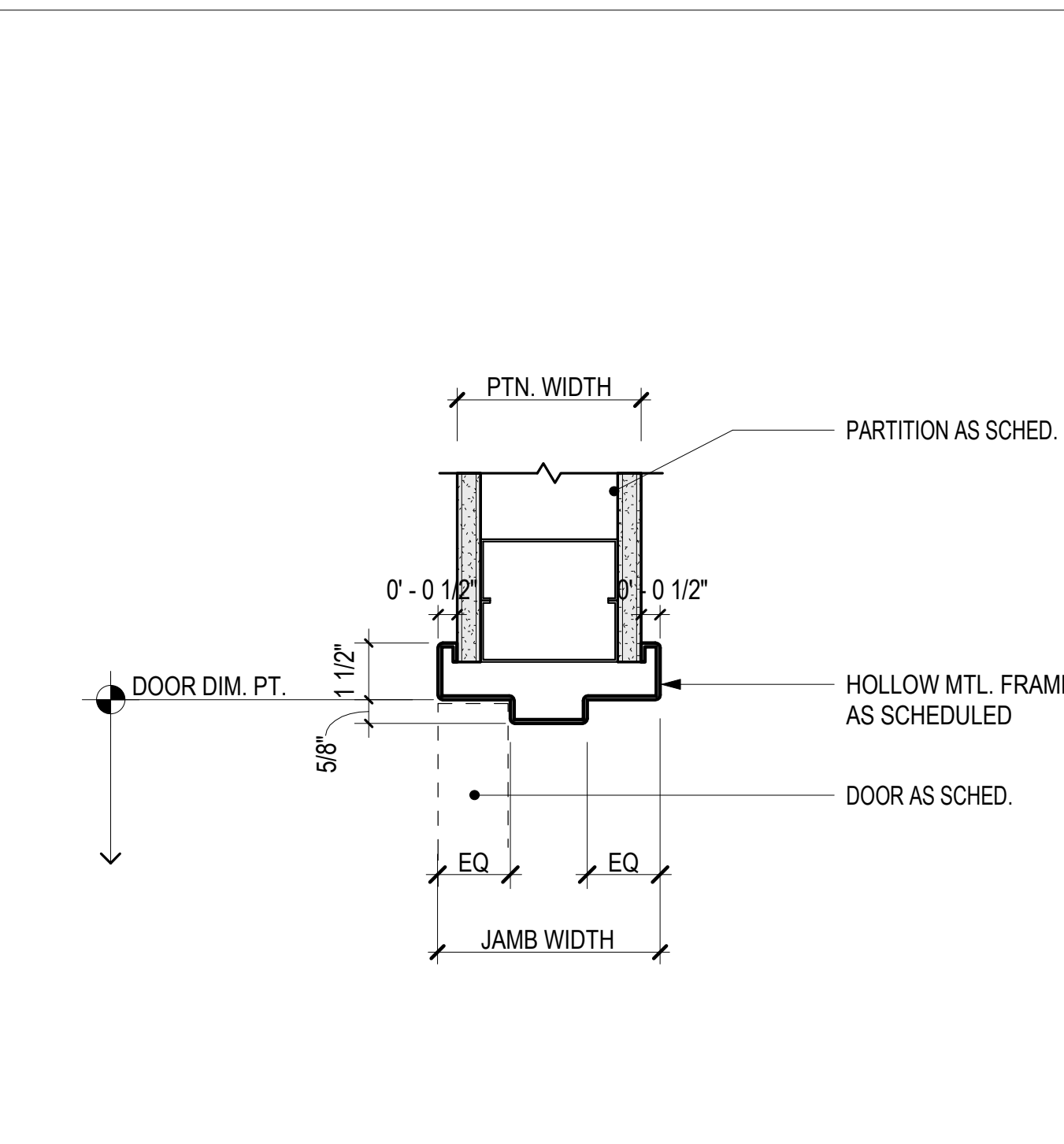
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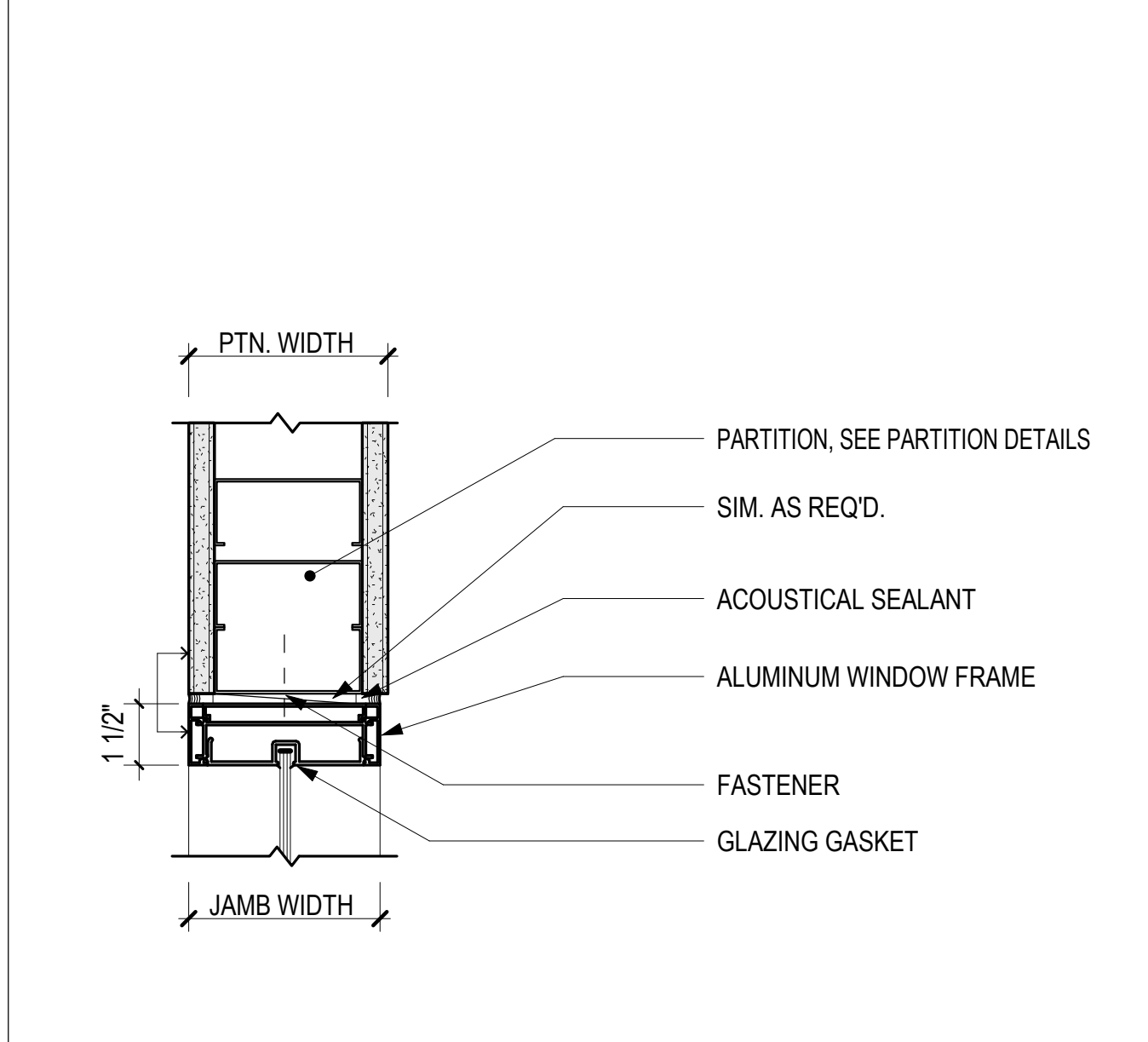
11 ALUM. DOOR SILL 3" = 1'-0"



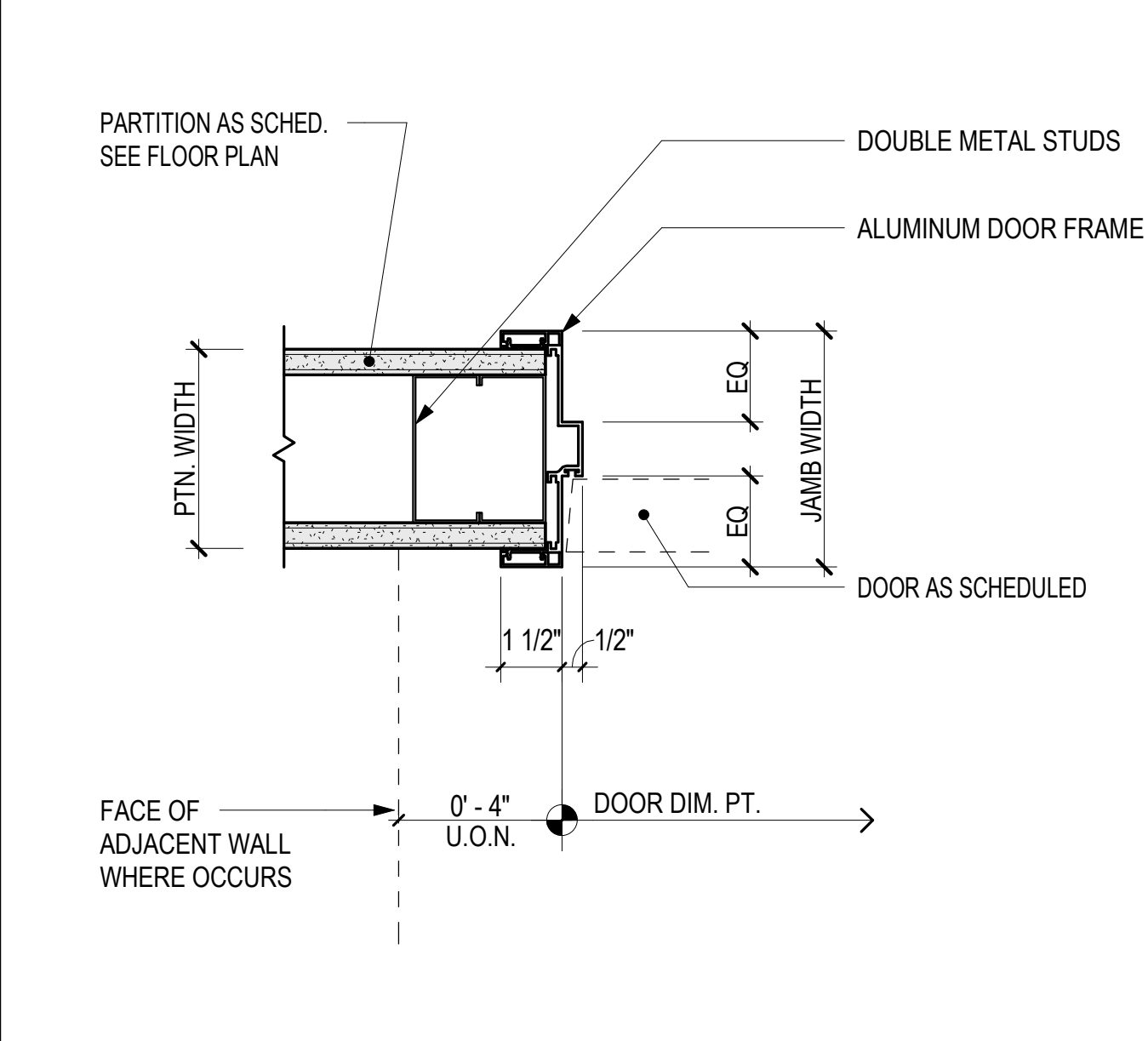
7 TYP. ALUMINUM DOOR HEAD 3" = 1'-0"



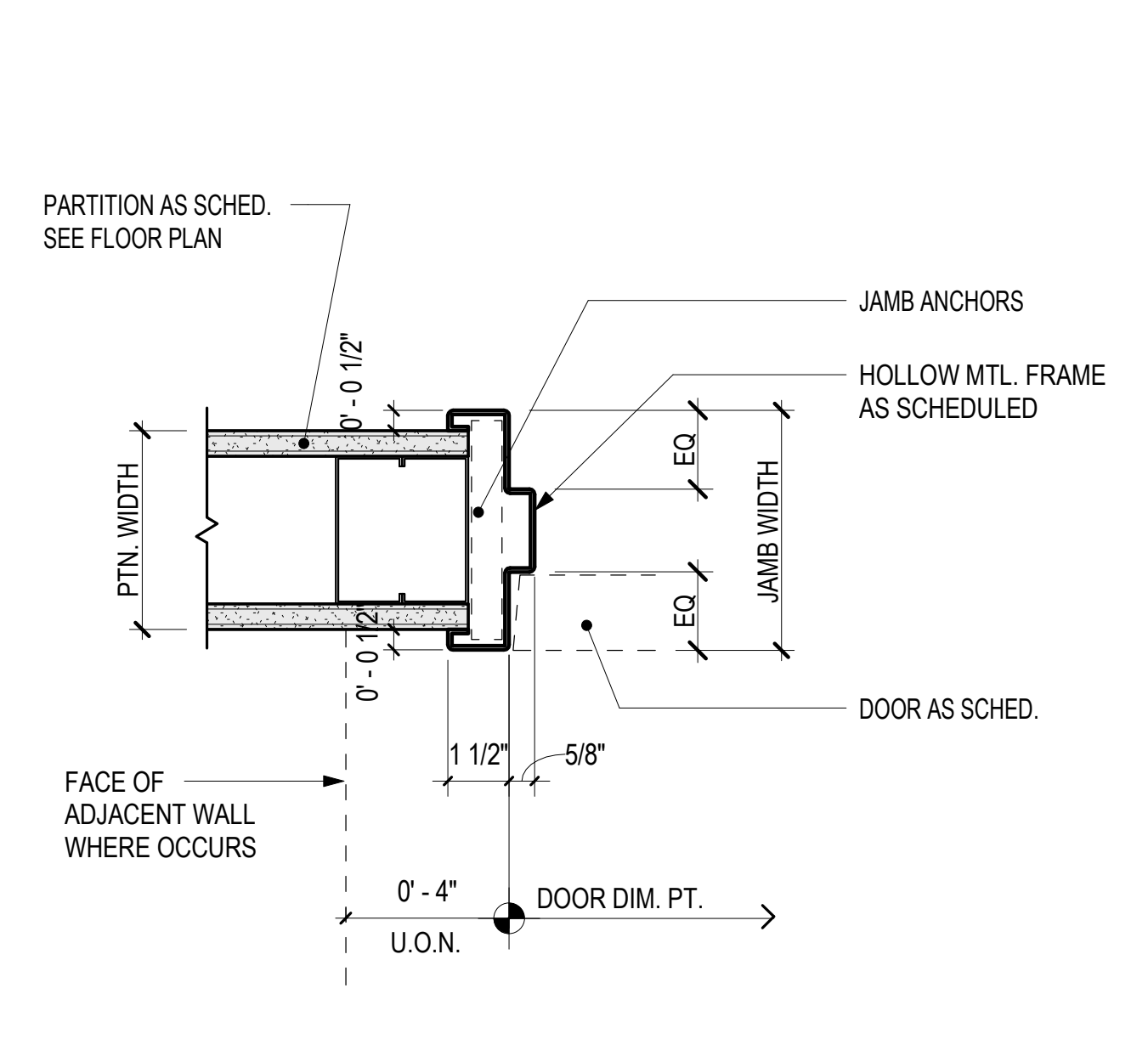
3 TYP. HOLLOW METAL DOOR HEAD 3" = 1'-0"



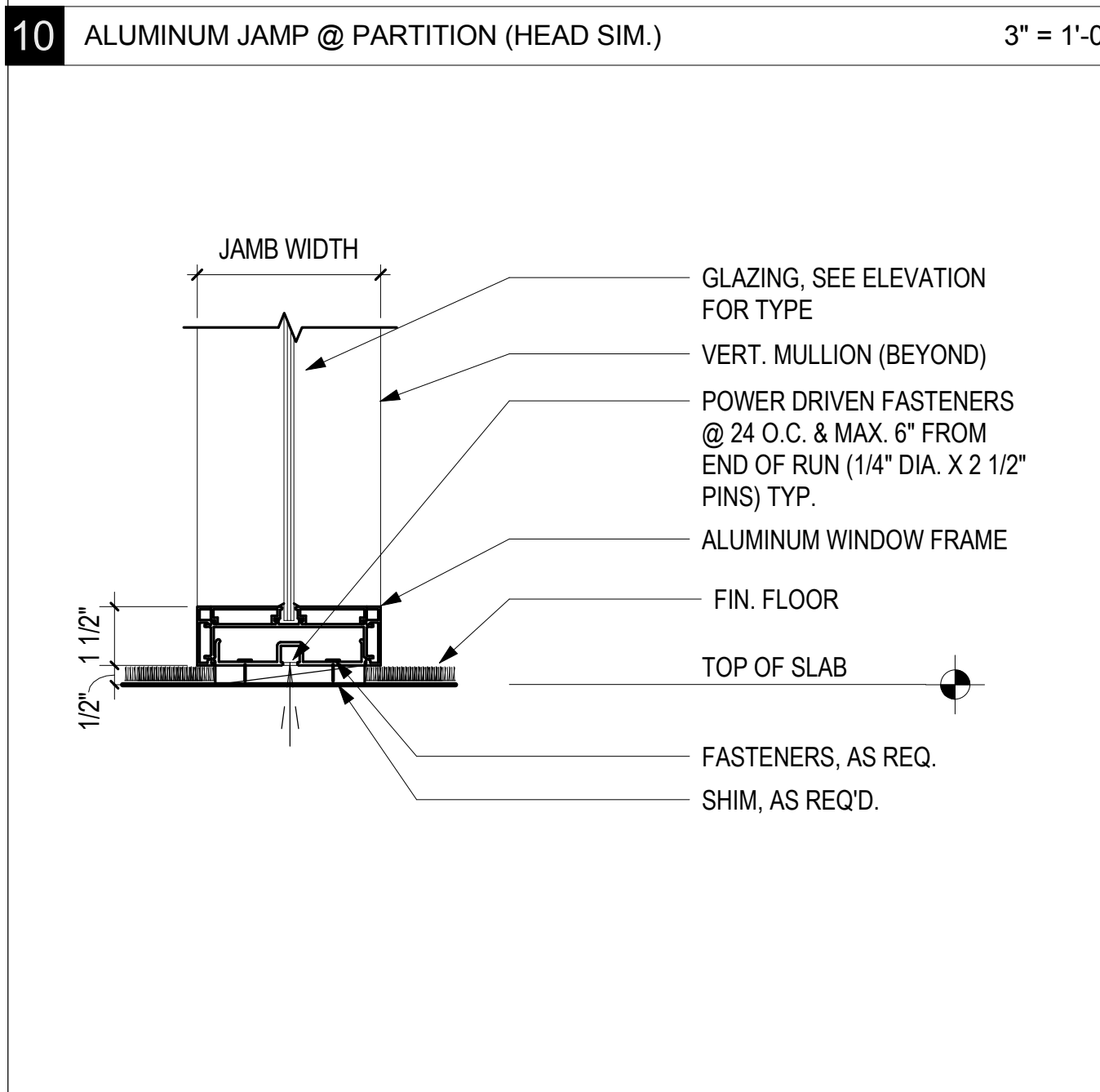
10 ALUMINUM JAMB @ PARTITION (HEAD SIM.) 3" = 1'-0"



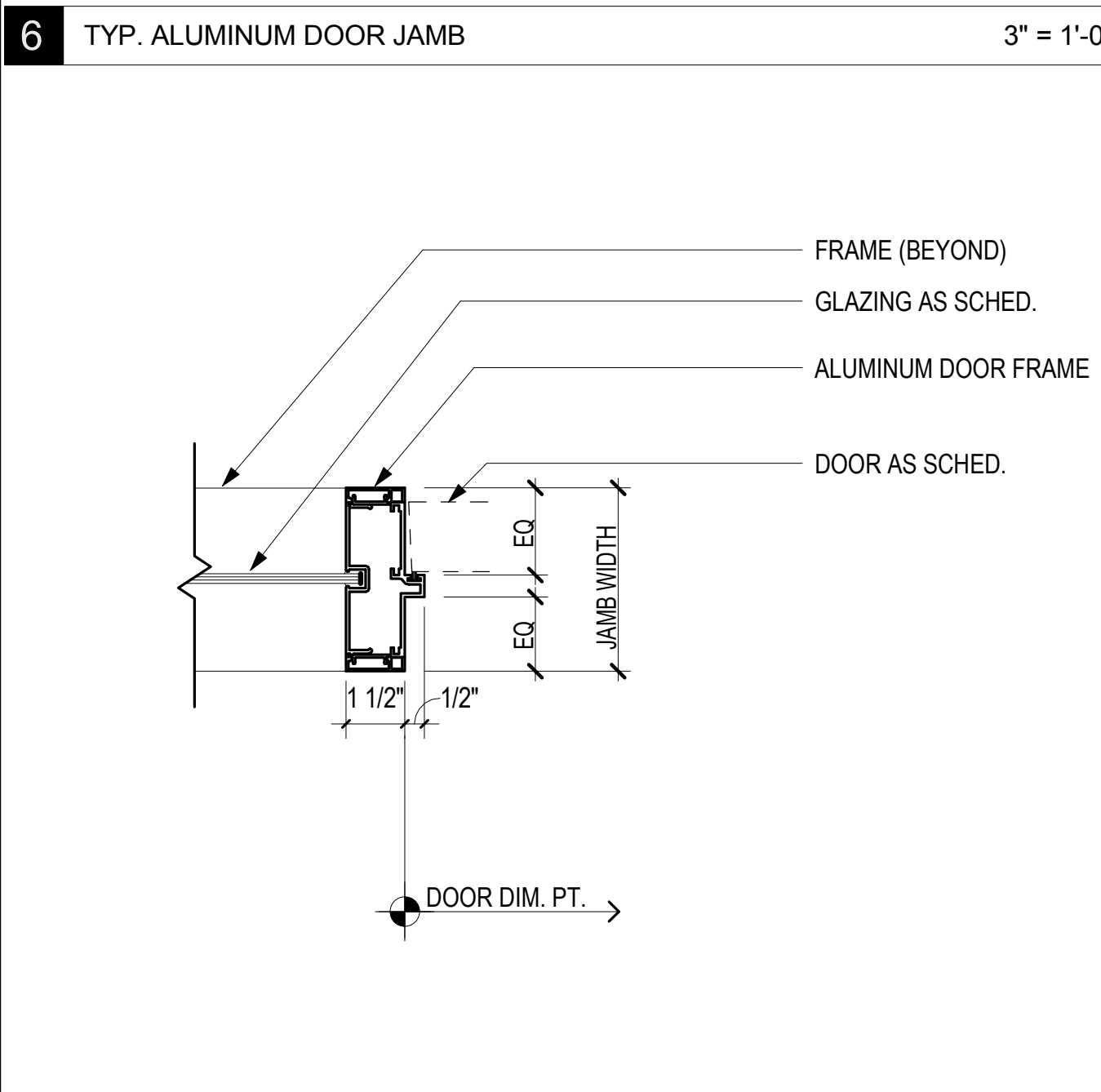
6 TYP. ALUMINUM DOOR JAMB 3" = 1'-0"



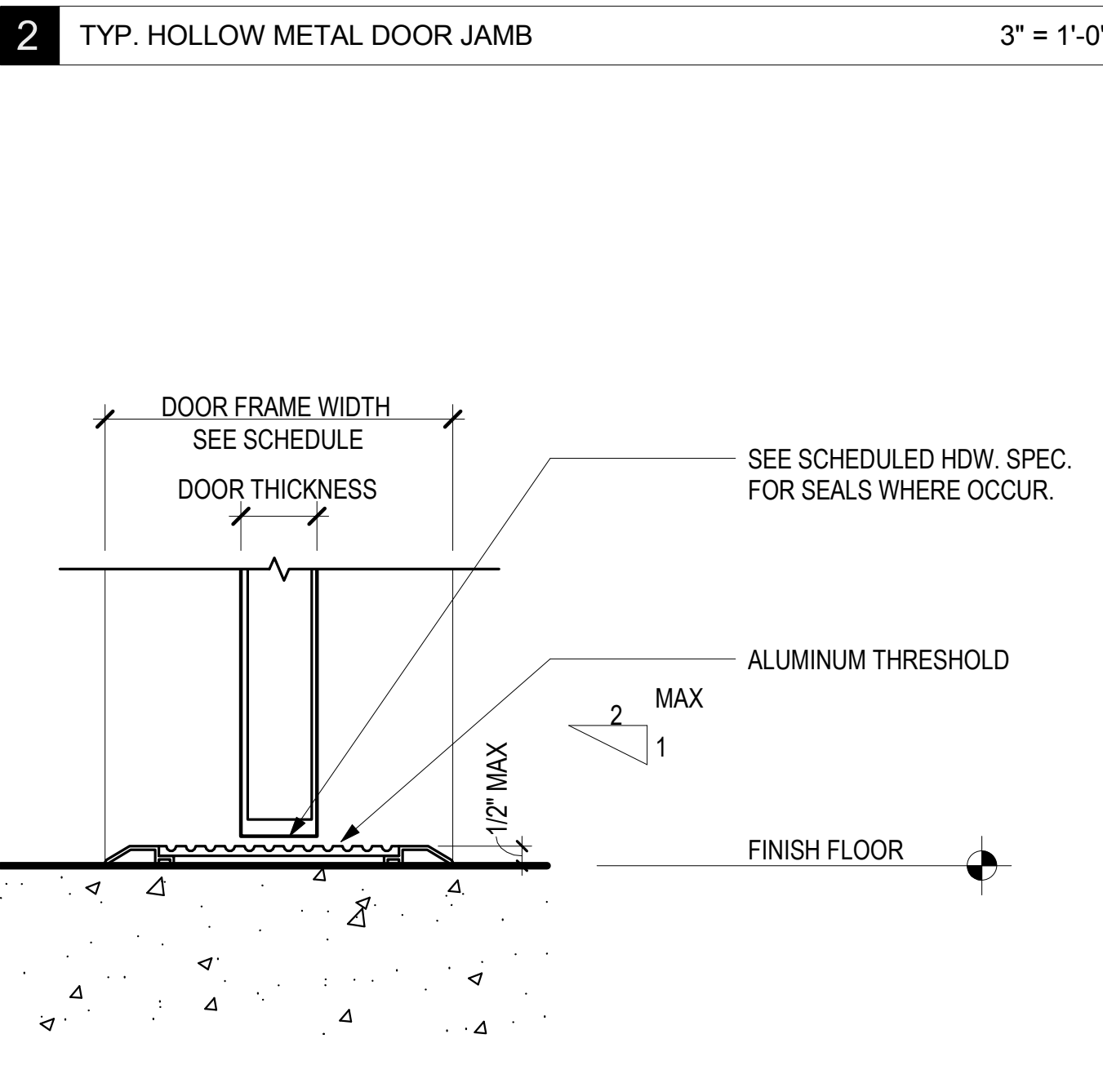
2 TYP. HOLLOW METAL DOOR JAMB 3" = 1'-0"



9 ALUMINUM SILL 3" = 1'-0"



5 TYP. ALUMINUM DOOR JAMB @ INT. GLAZING 3" = 1'-0"



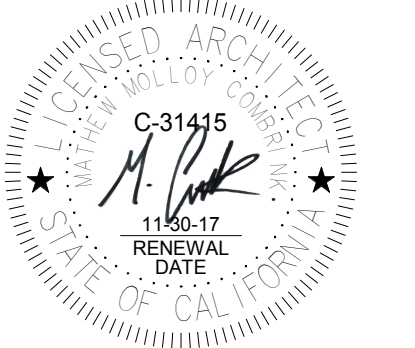
1 ALUMINUM THRESHOLD 3" = 1'-0"

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novato, california  
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scale: as noted  
date: 03/10/2017

CONSTRUCTION DOCUMENTS  
DETAILS - INTERIOR DOORS & STOREFRONT

A9.11



**GENERAL NOTES**

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE AND THE SPECIFICATIONS.
- THESE NOTES SHALL APPLY TO ALL STRUCTURAL DRAWINGS UNLESS OTHERWISE NOTED OR SHOWN.
- FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT SIMILAR CONDITIONS.
- UNLESS SHOWN OTHERWISE, DETAILS SHOWN ON "TYPICAL DETAIL" SHEETS SHALL BE USED WHEREVER APPLICABLE. SPECIFIC DETAILS ON THE STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER "TYPICAL DETAIL". SPECIFIC NOTES ON STRUCTURAL DRAWINGS TAKE PRECEDENCE OVER NOTES SHOWN IN "GENERAL NOTES". THE STRUCTURAL DRAWINGS SHOW STRUCTURAL FEATURES. EXACT CONFIGURATION OF INTERIOR PARTITION WALLS IS SHOWN ON ARCHITECTURAL DRAWINGS AND IS NOT NECESSARILY ALL SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE ANCHORAGE, INSERTS, ANCHOR BOLTS, ETC. FOR STRUCTURAL CONNECTIONS OF TOP, SIDES AND BOTTOM OF ALL PARTITION WALLS AS LOCATED ON THE ARCHITECTURAL DRAWINGS.
- REFER TO THE ARCHITECTURAL DRAWINGS AND THE SPECIFICATIONS FOR THE FOLLOWING: FLOOR FINISHES; DEPRESSIONS AND CURBS ON FLOORS; OPENINGS REQUIRED FOR WINDOWS, DOORS, DUCTS, VENTS, PLUMBING, ETC.; FLASHING, INSERTS, ANCHORAGES, HANGERS ETC., EMBEDDED IN OR ATTACHED TO THE STRUCTURE; ROADWAY, WALKS, PAVING, STAIRS, RAMPS, TERRACES, EXTERIOR GRADES, ELEVATIONS OF ROOF SURFACE AND LOCATIONS OF DRAINS AND PARTITION WALLS.
- THE CONTRACTOR SHALL COMPARE THE STRUCTURAL DRAWINGS WITH ARCHITECTURAL, PLUMBING, MECHANICAL, CIVIL, AND ELECTRICAL DRAWINGS AS TO ALL LAYOUTS, DIMENSIONS AND ELEVATIONS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR PROPER ADJUSTMENT BEFORE PROCEEDING WITH THE WORK.
- IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE NOT FULLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES OR SPECIFICATIONS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS SHOWN FOR SIMILAR CONDITIONS.
- BEAMS, JOISTS AND ANY OTHER STRUCTURAL ELEMENTS SHALL NOT BE CUT OR PENETRATED, EXCEPT AS SHOWN IN STRUCTURAL DETAILS OR AS APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO POURING CONCRETE; ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- FEATURES OF EXISTING CONSTRUCTION SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD AND DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES AND SEQUENCES OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PROGRAMS AND PROCEDURES DURING CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADEQUATELY SHORE AND BRACE EXISTING BUILDING AS REQUIRED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL FOLLOW ALL INSTRUCTIONS, RECOMMENDATIONS AND SAFETY PRECAUTIONS PROVIDED BY THE MANUFACTURER OR SUPPLIER OF ANY MATERIAL OR PRODUCT NOTED IN GENERAL NOTES OR DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR DETAILS ON REQUIRED VENTILATION OF ROOF JOISTS, FLOOR JOISTS, AND ATTIC SPACES.
- CONTRACTOR SHALL FIELD VERIFY EXISTING FRAMING CONDITIONS AND SHALL NOTIFY ARCHITECT OF ANY VARIATION FROM CONDITIONS ASSUMED ON DRAWINGS. CONTRACTOR SHALL VERIFY THAT EXISTING FRAMING IS RE-SUPPORTED AND ALL LOADS ARE TRANSFERRED TO NEW OR EXISTING FOOTINGS. CONTRACTOR SHALL CONSULT WITH THE STRUCTURAL ENGINEER AS REQUIRED.
- MECHANICAL UNIT LOCATIONS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. GENERAL CONTRACTOR TO COORDINATE STRUCTURAL TRADES WITH MECHANICAL CONTRACTOR TO DETERMINE EXACT LOCATION OF UNITS AND SUPPORTING STRUCTURE.
- DO NOT SCALE DRAWINGS.

**DESIGN CRITERIA**

- ALLOWABLE SOIL PRESSURES:  
DEAD + LIVE LOADS 1500 PSF

**FOUNDATION NOTES**

- FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SOIL.
- FOR BIDDING PURPOSES, THE ELEVATION OF THE BOTTOM OF FOOTINGS SHALL BE AS INDICATED ON THE FOUNDATION PLANS AND ON DETAILS.
- SOIL BEARING PRESSURES UNDER FOOTINGS AS DESIGNED DO NOT EXCEED ALLOWABLE SOIL PRESSURES DEFINED IN DESIGN CRITERIA ABOVE.
- SEE ARCHITECTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND ANY OTHER INCLUDED DRAWINGS, AND CONSULT WITH THE RESPECTIVE TRADES FOR VERIFICATION OF ALL ITEMS SHOWN OR NOT SHOWN ON STRUCTURAL PLANS PRIOR TO POURING CONCRETE FOOTINGS AND FLOOR SLABS.
- VERIFY LOCATIONS FOR OPENINGS OR PENETRATIONS THROUGH CONCRETE, CONCRETE CURBS, FLOOR DEPRESSIONS, FLOOR SLOPES AND DRAINS, INSERTS, ETC.

**CONCRETE NOTES**

- ALL CONCRETE SHALL BE REINFORCED UNLESS NOTED "NOT REINFORCED".
- SEE THE CALIFORNIA BUILDING CODE AND SPECIFICATIONS FOR THE REQUIREMENTS IN THE PRODUCTION, TESTING AND INSTALLATION OF CONCRETE.
- SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION AND EXTENT OF EXTERIOR WALKS AND PAVEMENTS AND FOR REINFORCEMENT REQUIREMENTS.
- REINFORCEMENT SHALL BE PER ASTM A615, GRADE 60 WITH BAR MARKS LEGIBLY ROLLED INTO THE SURFACE INDICATING SIZE, TYPE OF STEEL, AND YIELD STRENGTH DESIGNATION.
- CONCRETE SHALL TEST NOT LESS THAN 3000 PSI AT 28 DAYS FOR STRUCTURAL AND FOUNDATION ELEMENTS WITH A MAXIMUM SLUMP OF 4".
- REPLACE A MINIMUM OF 25% AND A MAXIMUM OF 50% OF CEMENT CONTENT WITH FLYASH CONFORMING TO ASTM C618 CLASS C OR F, OR GROUND GRANULATED BLAST FURNACE SLAG CONFORMING TO ASTM 989, CLASS 100 OR 120.
- SEE REINFORCING BAR LAP SPLICE SCHEDULE FOR REINFORCING BAR LAP SPLICE LENGTHS. STAGGER SPLICES WHENEVER POSSIBLE. VERTICAL WALL REINFORCING BARS SHALL EITHER EXTEND INTO FOOTINGS OR LAP SPLICED WITH FOOTING DOWELS OF THE SAME SIZE BARS.
- REINFORCEMENT, ANCHOR BOLTS, PIPE SLEEVES, AND OTHER INSERTS SHALL BE POSITIVELY SECURED IN PLACE BEFORE CONCRETE IS POURED. "WET-SETTING" WILL NOT BE ALLOWED.
- REINFORCING BARS WELDED TO STRUCTURAL STEEL SHALL BE SUPPLIED BY REINFORCING BAR SUB-CONTRACTOR AND ALL WELDING SHALL BE DONE BY STRUCTURAL STEEL SUB-CONTRACTOR.
- BAR COVERAGE TO FACE OF BAR, EXCEPT AS OTHERWISE SHOWN, SHALL BE:  
3" WHERE CONCRETE IS POURED AGAINST EARTH OR AGAINST GROUND CONTACT  
2" FOR BARS LARGER THAN #5, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER AFTER REMOVAL OF FORMS.  
1-1/2" FOR #5 BARS OR SMALLER, WHERE CONCRETE SURFACES ARE EXPOSED TO EARTH OR TO WEATHER
- AFTER REMOVAL OF FORMS  
UNLESS GOVERNED ABOVE BY EXPOSURE OR NOTED ON DETAILS HOLES FOR GROUTED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE 1/8" GREATER THAN ANCHOR ROD DIAMETER, UNLESS OTHERWISE NOTED. GROUT SHALL BE NON-SHRINK EPOXY. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.

**CARPENTRY NOTES**

- FRAMING LUMBER: DOUGLAS FIR-LARCH, NO. 1 MANUFACTURED AND GRADED IN ACCORDANCE WITH THE WEST COAST LUMBER INSPECTION BUREAU "STANDARD GRADING RULES NO. 17", LATEST EDITION INCLUDING ALL SUPPLEMENTS.
- ALL FRAMING LUMBER SHALL HAVE A MAXIMUM MOISTURE CONTENT OF 19 PERCENT AT TIME OF INSTALLATION.
- PIPES EXCEEDING ONE-THIRD OF THE PLATE WIDTH SHALL NOT BE PLACED IN PARTITIONS USED AS BEARING OR SHEAR WALLS, UNLESS OTHERWISE DETAILED OR COMPLETELY FURRED CLEAR OF THE STUDS. PIPES SHALL PASS THROUGH THE CENTER OF THE PLATES USING A NEATLY BORED HOLE. NO NOTCHING WILL BE ALLOWED.
- BOLTS IN WOOD SHALL BE MACHINE BOLTS UNLESS OTHERWISE NOTED. ALL MACHINE BOLTS SHALL HAVE CUT THREADS.
- BOLT HOLES IN WOOD AND STEEL SHALL BE THE DIAMETER OF THE BOLT PLUS 1/16".
- PROVIDE PLATE WASHER UNDER HEAD AND NUT OF BOLT WHERE BEARING IS AGAINST WOOD (INCLUDING HOLDOWN BOLTS). LENGTH OF THREAD SHALL BE SUCH THAT THREADS DO NOT BEAR AGAINST WOOD. ALL NUTS SHALL BE TIGHTENED WHEN PLACED AND RE-TIGHTENED AT COMPLETION OF THE JOB IMMEDIATELY BEFORE CLOSING WITH FINISH CONSTRUCTION.
- CONNECTORS FOR WOOD CONSTRUCTION NOTED ON PLANS AND DETAILS SHALL BE SIMPSON COMPANY STRONG-TIE CONNECTORS OR APPROVED EQUAL.
- JOISTS SUPPORTING MECHANICAL EQUIPMENT SHALL BE DOUBLE JOISTS (DJ) UNLESS NOTED OTHERWISE.
- FASTENERS PENETRATING PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D.

**PLYWOOD SHEATHING NOTES**

- ALL PLYWOOD SHEATHING USED STRUCTURALLY SHALL EXTEND CONTINUOUSLY BEHIND ALL FINISH. WHERE IT IS TO BE PLASTERED, IT SHALL BE PROTECTED BY AN UNBROKEN LAYER OF MOISTURE-TIGHT PAPER UNDER LATHING.
- IN GENERAL, PLYWOOD SHEETS SHALL BE 4'-0" x 8'-0". MINIMUM SHEET DIMENSION IS 24 INCHES. UNLESS ALL EDGES ARE FULL SUPPORTED BY FRAMING MEMBERS OR BLOCKING. THE LONG DIMENSION MAY BE LAID EITHER HORIZONTALLY OR VERTICALLY AT WALLS. ROOF AND FLOOR SHEETS SHALL BE LAID WITH FACE PLYS ACROSS JOISTS OR FRAMING MEMBERS AND WITH END JOINTS STAGGERED 4'-0". USE PLYCLIPS HALFWAY BETWEEN EACH SUPPORT AT END JOINTS. ALL PLYWOOD JOINTS SHALL BE ACCURATELY CENTERED ON SUPPORTING

**NAILING NOTES**

- ALL NAILS SHALL BE COMMON WIRE NAILS. WHERE NAILS TEND TO SPLIT THE WOOD, NAIL HOLES SHALL BE PRE-DRILLED. NAILS AT PRESSURE TREATED WOOD SHALL BE HOT DIP GALVANIZED.
- PROVIDE MINIMUM NAILING REQUIREMENTS AS SET FORTH IN CALIFORNIA BUILDING CODE TABLE 2304.9.1 EXCEPT THAT BOX NAILS SHALL NOT BE USED.
- PLYWOOD NAILING: AS SHOWN ON PLANS.
- NAILS PENETRATING PRESSURE-PRESERVATIVE TREATED AND FIRE-RETARDANT TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED PER ASTM A153, CLASS D.

**GROUTED ANCHORS AND DOWELS IN HARDENED CONCRETE NOTES**

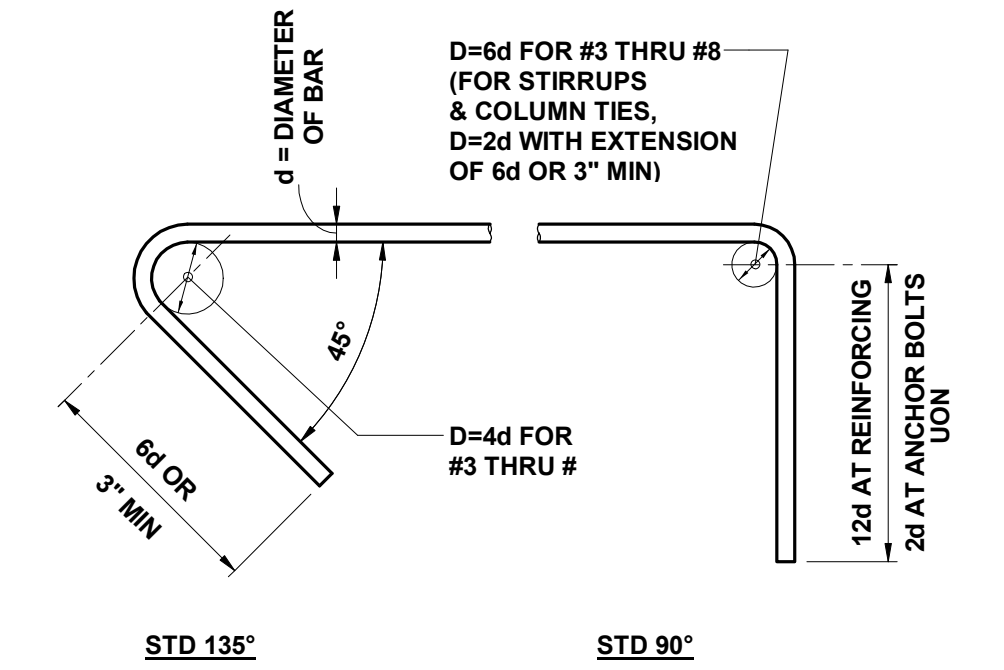
- GROUT FOR SETTING ANCHORS OR DOWELS IN HARDENED CONCRETE SHALL BE SIMPSON SET-XP (PER ESR-2508), HILTI HIT RE-500SD (PER ESR-2322), OR APPROVED EQUAL.
- HOLES FOR GROUTED ANCHORS SHALL BE DRILLED WITH ROTARY HAMMER OR OTHER SUITABLE METHODS TO ENSURE EXISTING REINFORCEMENT IS NOT DAMAGED. HOLE DIAMETER SHALL BE AS REQUIRED BY MANUFACTURER. LOCATE EXISTING REINFORCING BARS PRIOR TO DRILLING HOLES. DO NOT DAMAGE EXISTING REINFORCING. METHOD OF LOCATING EXISTING REINFORCING BARS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. ALL MIS-DRILLED OR UNACCEPTABLE HOLES SHALL BE GROUTED SOLID.
- JOB TESTING AND INSPECTION: CONTINUOUS SPECIAL INSPECTION OF ALL GROUTED ANCHOR AND DOWEL INSTALLATION IS REQUIRED. TESTING SHALL BE AS FOLLOWS:  
A. THREADED RODS: TEST FIRST 5 INSTALLED RODS OF EACH SIZE TO TENSION PROOF LOAD SHOWN ON GROUTED ANCHOR SCHEDULE. IF ALL PASS, TEST 5% OF REMAINING RODS. IF ANY ROD FAILS, TEST ALL RODS UNTIL 10 SUCCESSFUL CONSECUTIVE TESTS ARE MADE, THEN RESUME 5% TESTING FREQUENCY. THE LOAD TEST SHALL BE PERFORMED IN THE PRESENCE OF THE PROJECT INSPECTOR.  
B. HOLDOWN ANCHORS: TEST 100% OF ANCHORS USED TO TENSION PROOF LOAD PER TABLE ON TYPICAL HOLD-DOWN DETAIL.  
C. REINFORCING BAR ANCHORS, #5 AND LARGER: TEST PER THREADED ROD REQUIREMENTS ABOVE REINFORCING BAR ANCHORS #4 AND SMALLER: NO TESTING REQUIRED. VISUAL OBSERVATION ONLY.

**TESTS, INSPECTIONS AND OBSERVATIONS NOTES**

- TESTS AND INSPECTIONS SHALL BE PROVIDED FOR ALL ITEMS AS REQUIRED BY THE CALIFORNIA BUILDING CODE. SEE STATEMENT OF SPECIAL INSPECTIONS FOR REQUIREMENTS.
- THE OWNER SHALL BE RESPONSIBLE FOR RETAINING AN INDEPENDENT TESTING AND INSPECTION LABORATORY TO PERFORM ALL REQUIRED TESTING AND INSPECTIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE TESTING AND INSPECTION LABORATORY WITH CONSTRUCTION SCHEDULES TO ENSURE PROPER COORDINATION OF WORK.
- IN ADDITION TO SPECIAL INSPECTIONS, THE FOLLOWING SPECIFIED ITEMS SHALL HAVE PERIODIC STRUCTURAL OBSERVATION BY THE STRUCTURAL ENGINEER OF RECORD:  
A. REINFORCING STEEL  
B. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OR INSPECTOR A MINIMUM OF 48 HOURS (EXCLUDING WEEKEND DAYS) PRIOR TO THE TIME OF A REQUIRED INSPECTION.

**SYMBOLS AND ABBREVIATIONS**

AS2.1	SECTION A ON DRAWING S2.1	HDG	HOLDOWN
@	AT	HDR	HOT-DIPPED GALVANIZED
&	AND	HGR	HEADER
*	DEGREE	HGR	HANGER
Ø OR DIA	DIAMETER	HOR	HORIZONTAL
#	NUMBER OR POUND	HP	HIGH POINT
(E)	EXISTING	HSB	HIGH STRENGTH BOLT
(N)	NEW	HSS	HOLLOW STEEL SECTION
		HT	HEIGHT
AB	ANCHOR BOLT	ID	INSIDE DIAMETER
AC	ASPHALT CONCRETE	IF	INSIDE FACE
ADDL	ADDITIONAL	INT	INTERIOR
ADJ	ADJACENT	INV	INVERT
AFF	ABOVE FINISH FLOOR		
ALT	ALTERNATE	JST	JOIST
APPROX	APPROXIMATE	JT(S)	JOINT(S)
ARCH	ARCHITECT OR ARCHITECTURAL		
ATS	ANCHOR TIEDOWN SYSTEM	K	KIPS (1000 LBS)
ATTN	ATTENTION		
BD	BOARD	LBS	POUNDS
BLDG	BUILDING	LG	LONG
BLK	BLOCK	LL	LIVE LOAD
BLKG	BLOCKING	LLH	LONG LEG HORIZONTAL
BM	BEAM	LLV	LONG LEG VERTICAL
BO	BOTTOM OF	LP	LOW POINT
BOT	BOTTOM	LSL	TIMBERSTRAND LAMINATED STRAND LUMBER
BRB	BUCKLING-RESTRAINED BRACE	LT	LIGHT
BS	BOTH SIDES	LTWT	LIGHTWEIGHT
BTWN	BETWEEN	LVL	MICROLLAM LAMINATED VENEER LUMBER
C	CONTROL JOINT	MATL	MATERIAL
CBC	CALIFORNIA BUILDING CODE	MAX	MAXIMUM
CJ	CONSTRUCTION JOINT	MB	MACHINE BOLT
CL	CENTERLINE	MECH	MECHANICAL
CLG	CLEARING	MFR	MANUFACTURER
CLR	CLEAR	MIN	MINIMUM
CMU	CONCRETE MASONRY UNIT	MISC	MISCELLANEOUS
COL	COLUMN		
CONC	CONCRETE OR CONCENTRATED	NTS	NOT TO SCALE
COND	CONDITION		
CONN	CONNECTION	OC	ON CENTER
CONT	CONTINUOUS	OPNG	OPENING
CP	COMPLETE PENETRATION WELD		
CTSK	COUNTERSINK	PL	PLATE
		PSF	POUNDS PER SQUARE FEET
d	PENNY	PSL	PARALLEL STRAND LUMBER
D	DEPTH	PTDF	PRESSURE TREATED DOUGLAS FIR LUMBER
DBL	DOUBLE	PW	STRUCTURAL PLYWOOD
DCW	DEMAND CRITICAL WELD	PW EN	PLYWOOD EDGE NAILING
DEMO	DEMOLISH		
DET	DETAIL	RECT	RECTANGULAR
DF	DOUGLAS FIR	REINF	REINFORCING
DIAG	DIAGONAL	REQD	REQUIRED
DIM(S)	DIMENSION(S)		
DJ	DOUBLE JOIST	SAD	SEE ARCHITECTURAL DRAWING
DL	DEAD LOAD		OR SEE ARCHITECTURAL DETAIL
DN	DOWN	SCHED	SCHEDULE
DO	DITTO	SHT	SHEET
DP	DEEP	SHTG	SHEATHING
DTPS	DETAILS	SIM	SIMILAR
DWG(S)	DRAWING(S)	SMD	SEE MECHANICAL DRAWINGS
			OR SEE MECHANICAL DETAIL
EA	EACH	SPEC(S)	SPECIFICATION(S)
EB	EXPANSION BOLT	SQ	SQUARE
EE	EACH EDGE	SS	SOLID SAWN
EF	EACH FACE	STAG	STAGGERED
EJ	EXPANSION JOINT	STD	STANDARD
EL	ELEVATION	STIFF	STIFFENER
ELEC	ELECTRICAL	STRUCT	STRUCTURAL
ELEV	ELEVATOR	SYM	SYMMETRICAL
EMBED	EMBEDMENT		
EN	EDGE NAILING	T&B	TOP & BOTTOM
ENGR	ENGINEER	T&G	TONGUE & GROOVE
EQ	EQUAL	THK	THICK
EQUIP	EQUIPMENT	THRU	THROUGH
ES	EACH SIDE	TN	TOENAIL
ETC	ETCETERA	T.O.	TOP OF
EW	EACH WAY	TOP OF PLYWOOD	TOP OF PLYWOOD
EXC	EXCAVATE	TOP OF STEEL OR SLAB	TOP OF STEEL OR SLAB
EXT	EXTERIOR	TOW	TOP OF WALL
		TYP	TYPICAL
FDN	FOUNDATION	UCN	UNLESS OTHERWISE NOTED
FF	FINISH FLOOR		
FIN	FINISH	VERT	VERTICAL
FLR	FLOOR	VIF	VERIFY IN FIELD
FOC	FACE OF CONCRETE		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD		
FRT	FIRE RETARDANT TREATED		
FS	FAR SIDE		
FT	FEET		
FTG	FOOTING		
GA	GAGE, GAUGE		
GALV	GALVANIZED		
GB	GRADE BEAM		



**TYPICAL REINFORCING BAR & ANCHOR BOLT HOOK**

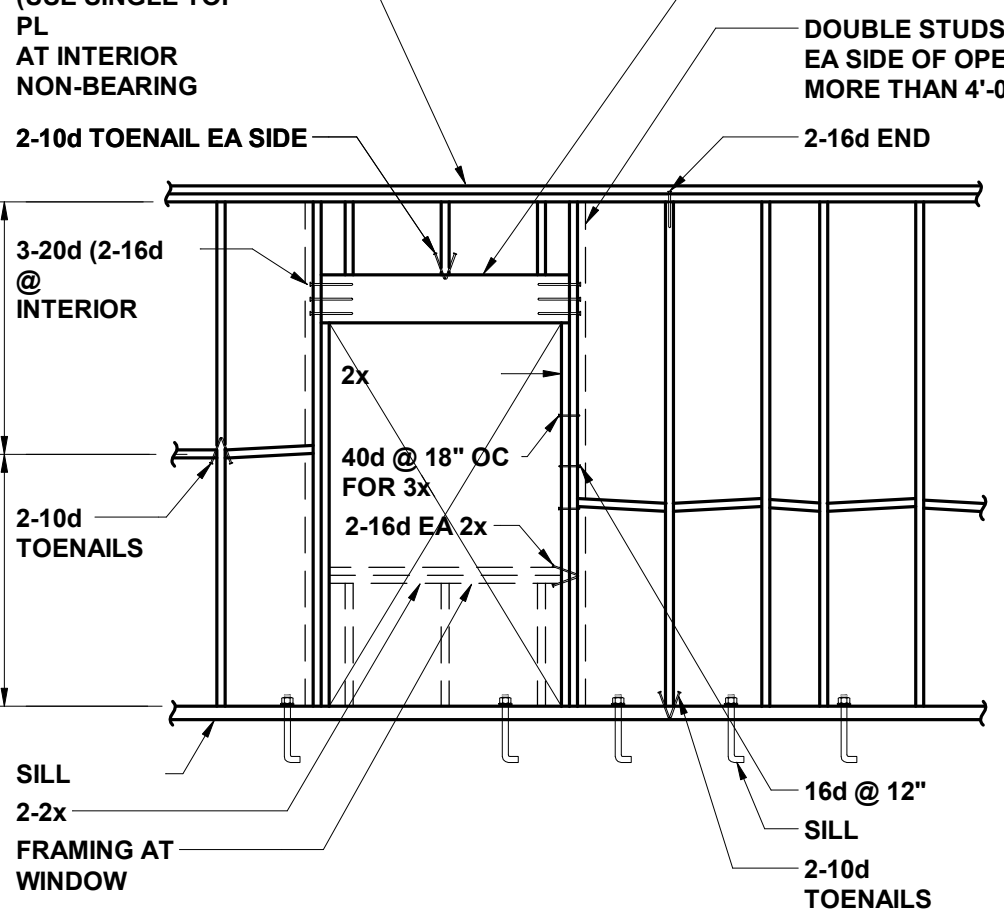
1 S1.1 NT

CONCRETE STRENGTH PSI	BAR	BAR SIZE									
		#3		#4		#5		#6		#7	
		CLAS	CLAS	CLAS	CLAS	CLAS	CLAS	CLAS	CLAS	CLAS	CLAS
2500	TOP	24	31	32	41	39	51	47	61	69	89
	ALL OTHER	18	24	24	32	30	39	36	47	53	69
3000	TOP	22	28	29	37	36	47	43	56	63	81
	ALL OTHER	17	22	22	29	28	36	33	43	48	63
4000	TOP	19	24	25	33	31	41	37	49	54	71
	ALL OTHER	15	19	19	25	24	31	29	37	42	54
5000	TOP	17	22	23	29	28	36	34	43	49	63
	ALL OTHER	13	17	17	23	22	28	26	34	38	49

- NOTES:**
- SPLICE LENGTH IN INCHES.
  - USE CLASS B FOR ALL LAP SPLICES EXCEPT CLASS A MAY BE USED FOR NON-STRUCTURAL SLABS ON GRADE.
  - TOP BARS = HORIZONTAL BARS (OTHER THAN IN WALLS) PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW BARS. TABLE IS BASED UPON MINIMUM CLEAR COVER GREATER THAN ONE BAR DIAMETER AND MINIMUM CLEAR SPACING GREATER THAN TWO BAR DIAMETERS. WHERE EITHER OF THESE REQUIREMENTS IS NOT MET, INCREASE LAP LENGTH BY 50%.

**REINFORCING BAR LAP SPLICE SCHEDULE IN CONCRETE**

2 S1.1 NT



- NOTES:**
- ALL NEW FRAMING IN THE EXTERIOR WALLS SHALL BE FIRE-RETARDANT TREATED.
  - ALL NAILS PENETRATING TREATED WOOD SHALL BE HOT-DIPPED GALVANIZED

\*USE 3x CRIPPLE WHERE SPAN EXCEEDS 6'-

HEADER				
SPAN	3'-0" MAX	4'-0" MAX	6'-0" MAX	OVER 6'-
2x4	2-2x4 OR	2-2x6 OR	4x8	SEE SPECIFIC DETAILS ON
2x6	3-2x6 OR 4x6	3-2x6 OR	3-2x8 OR	

HEADER SCHEDULE INTERIOR NON-BEARING				
SPAN	3'-0" MAX	4'-0" MAX	6'-0" MAX	OVER 6'-
2x4	2x4	2-2x4 FLAT	4x6	SEE SPECIFIC DETAILS ON
2x6	2x6	2-2x6 FLAT	4x6	

- \*\* NOTE:**
- IF MORE THAN 5'-0" OF SOLID WALL OCCURS OVER OPENING, USE BEARING WALL SCHEDULE.
  - OMIT CRIPPLE STUDS AT INTERIOR NON BEARING WALL.

**TYPICAL FRAMING AT WINDOW / DOOR OPENING**

3 S1.1 NT

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rev date issue



college of marin - indian valley campus bldg. 11 renovation

novato, california  
project number: 17019.1

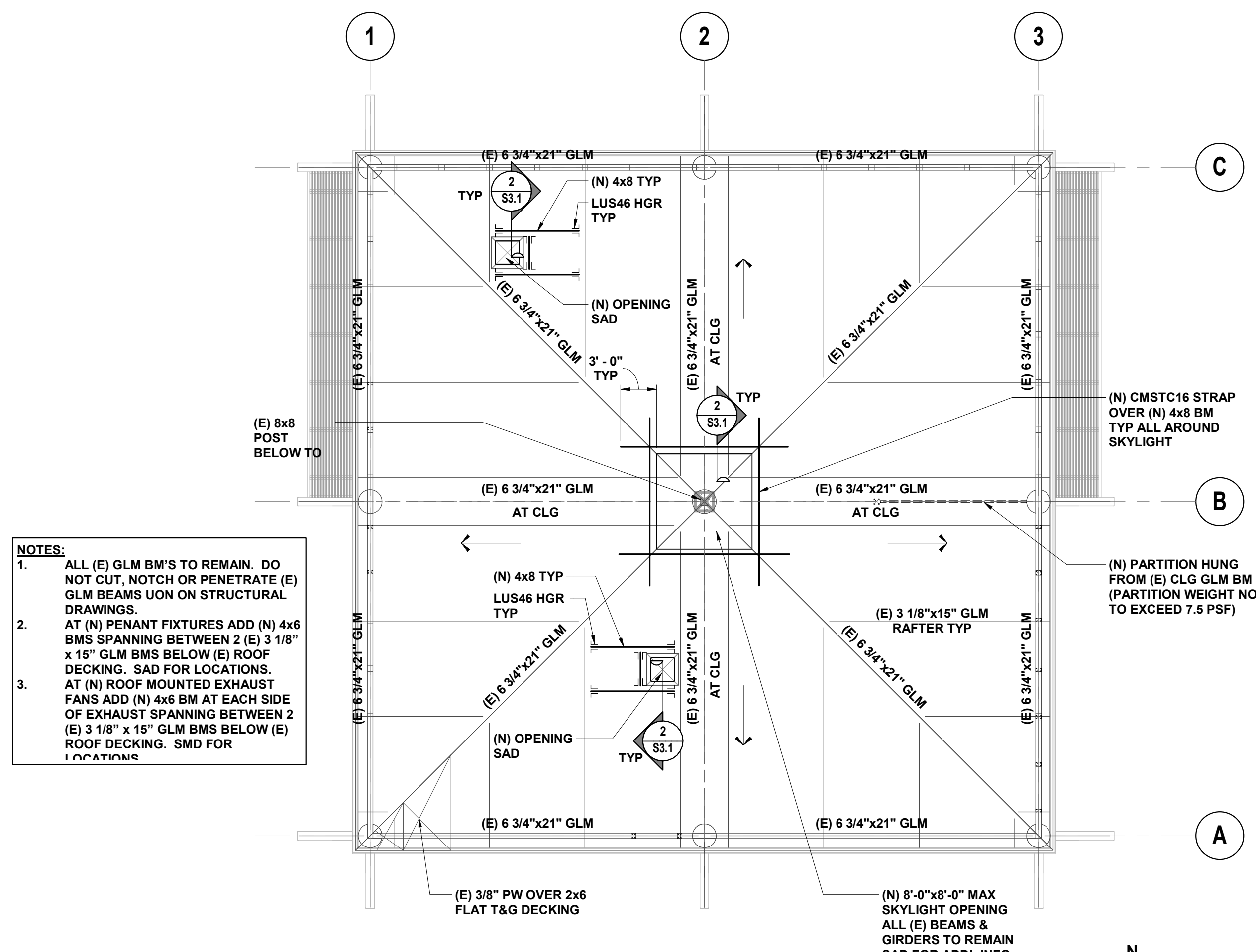
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date: 3/3/2017

**CONSTRUCTION DOCUMENTS**  
**GENERAL NOTES AND TYPICAL DETAILS**

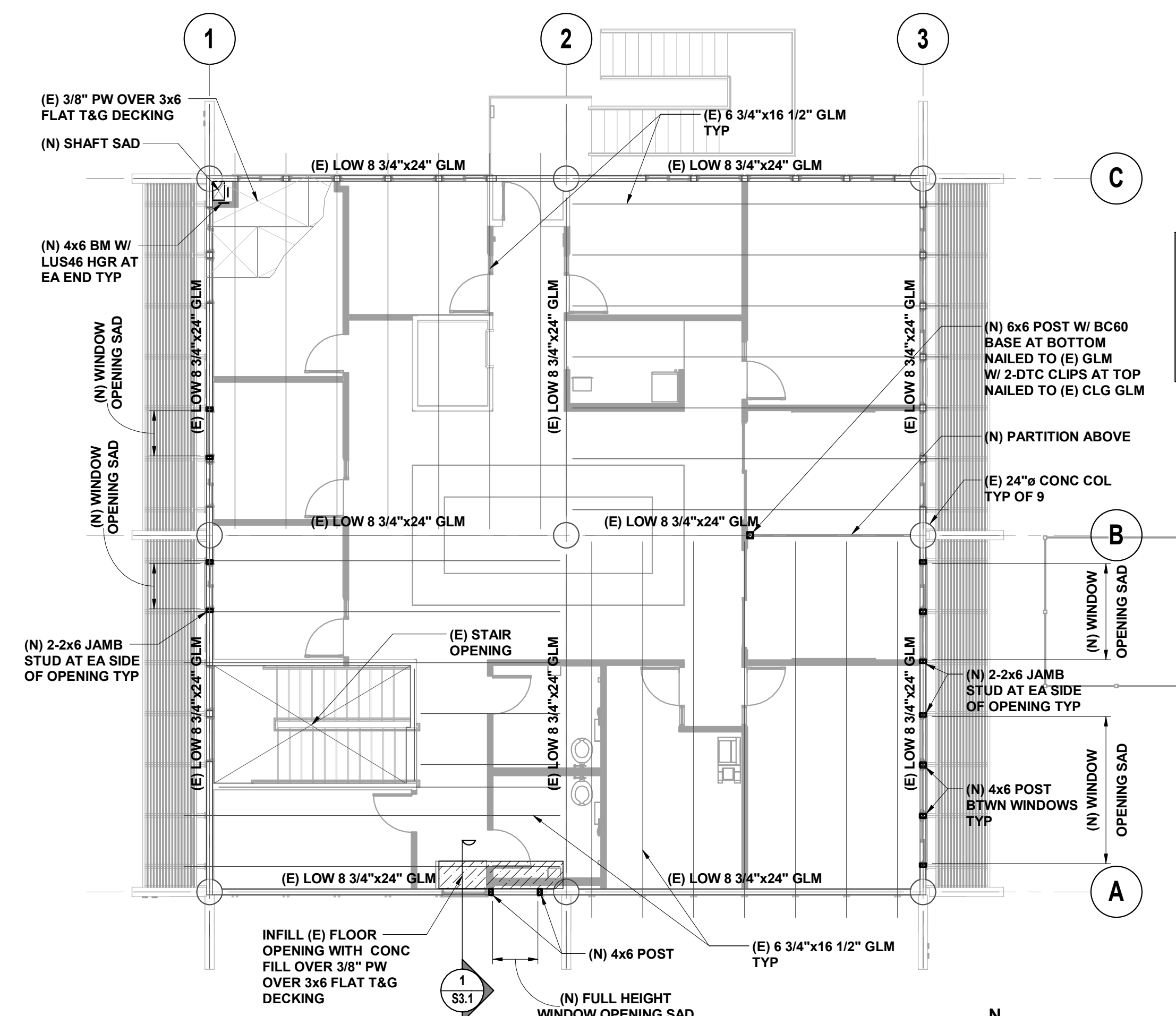
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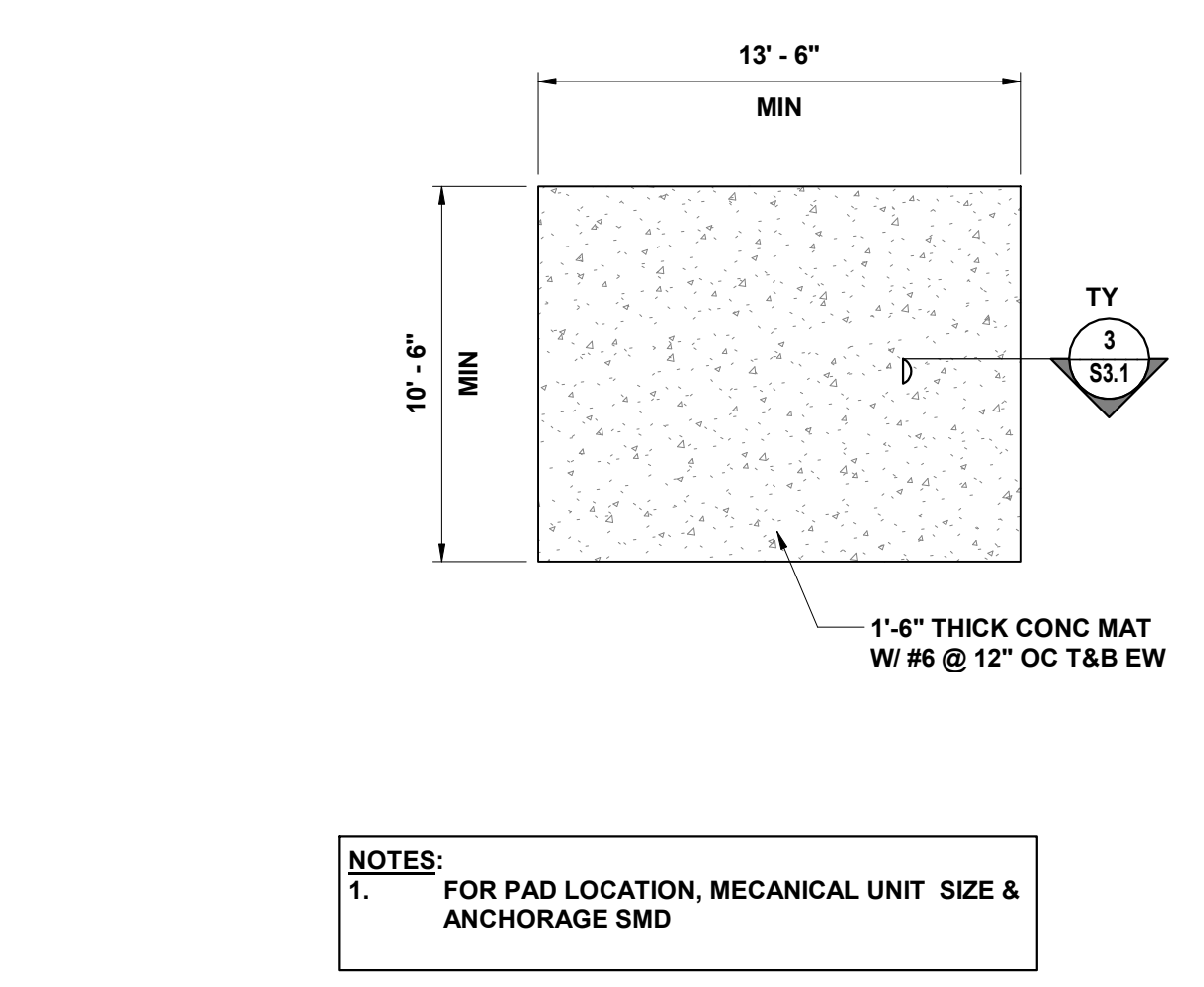
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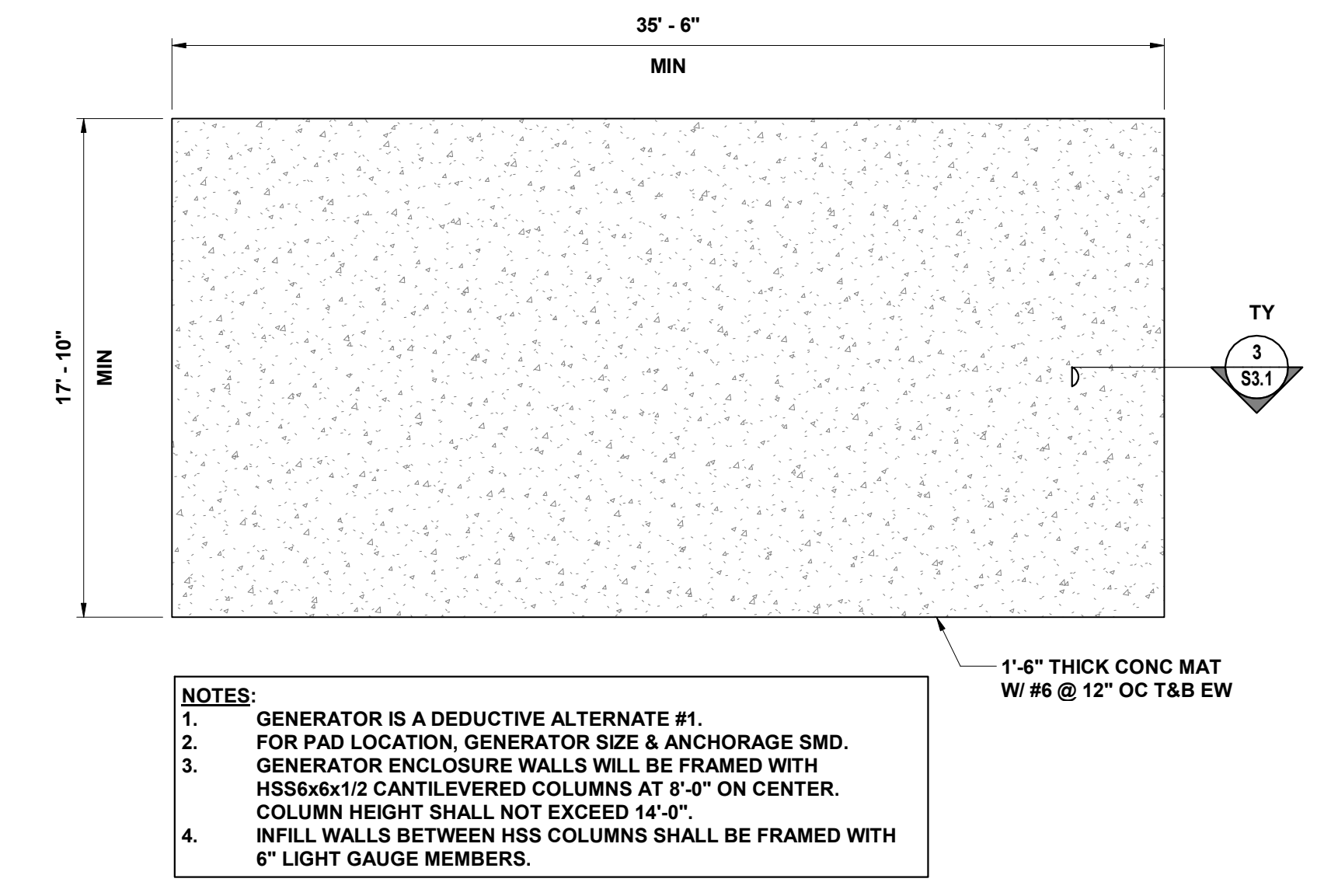
**3 ROOF FRAMING PLAN**  
 S2.1 1/8" = 1'-0"



**2 SECOND FLOOR FRAMING PLAN**  
 S2.1 1/8" = 1'-0"



**1B MECHANICAL UNIT PAD FOUNDATION PLAN**  
 S2.1 3/16" = 1'-0"



**1A GENERATOR PAD FOUNDATION PLAN - ALTERNATE #1**  
 S2.1 3/16" = 1'-0"

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**CONSTRUCTION DOCUMENTS**  
**FRAMING PLANS**



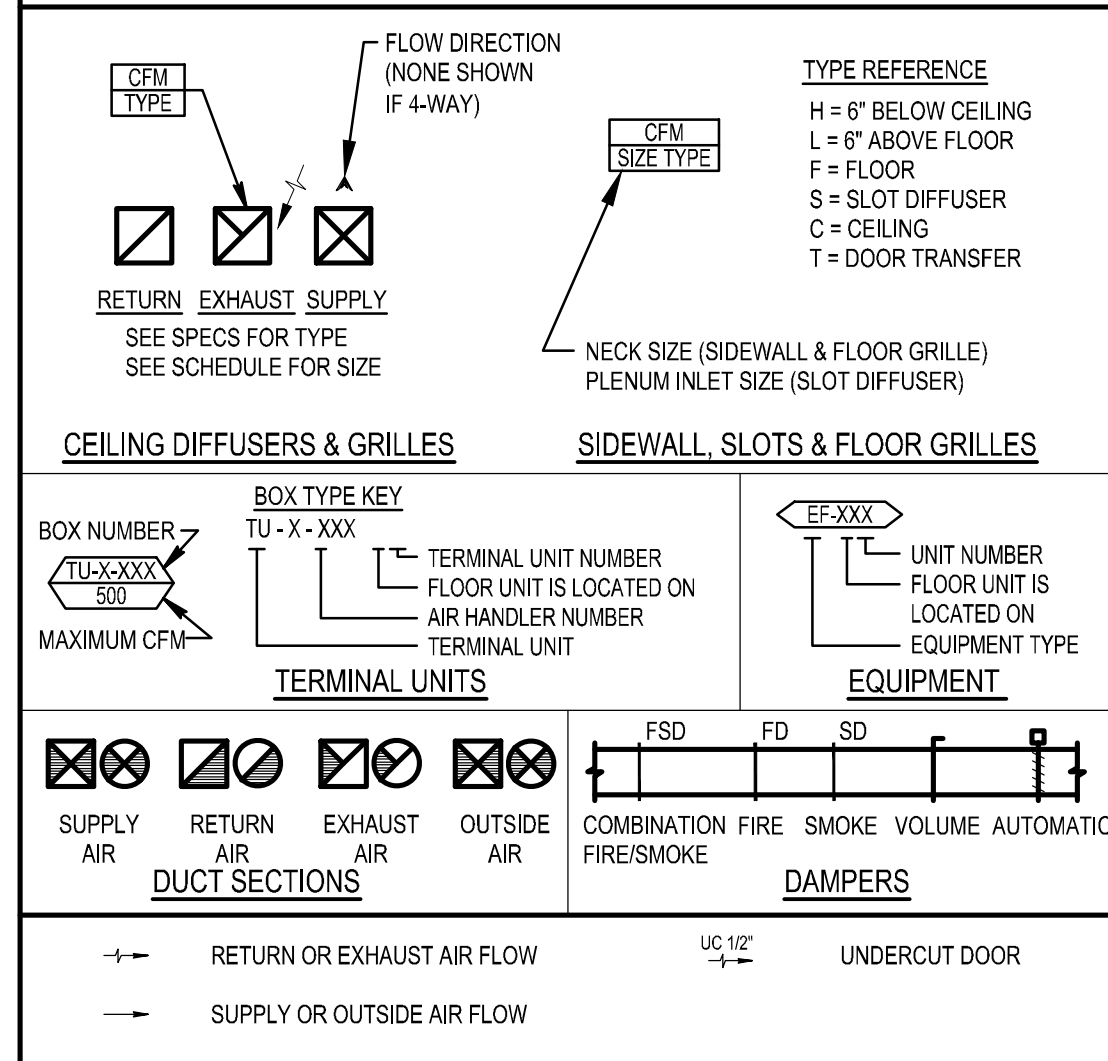
### STANDARD MECHANICAL ABBREVIATIONS

AF	AIRFOIL	IE	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR	IN	INCHES
AHP	APPARATUS HOUSING PLENUM	INSUL	INSULATION
ALT	ALTERNATIVE	ISOL	ISOLATION
AL	ALUMINUM	KW	KILOWATT
APD	AIR PRESSURE DROP	KWH	KILOWATT HOUR
APPROX	APPROXIMATELY	L	LENGTH
ARCH	ARCHITECTURAL	LAT	LEAVING AIR TEMP
AUTO	AUTOMATIC	LB	POUND
BDD	BACKDRAFT DAMPER	LDB	LEAVING DRY BULB
BI	BACKWARD INCLINED	LF	LINEAR FEET
BLDG	BUILDING	LFT	LEAVING FLUID TEMPERATURE
BSMT	BASEMENT	LVB	LEAVING
BTU	BRITISH THERMAL UNIT	LWB	LEAVING WET BULB
BTUH	BRITISH THERMAL UNITS PER HOUR	LWT	LEAVING WATER TEMPERATURE
CFH	CUBIC FEET PER HOUR	MAX	MAXIMUM
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTU PER HOUR
CFS	CUBIC FEET PER SECOND	MECH	MECHANICAL
CLG	CEILING OR COOLING	MFR	MANUFACTURER
CONC	CONCRETE	MIN	MINIMUM
CONN	CONNECTION	MISC	MISCELLANEOUS
CONT	CONTINUE(ED)QUATION	MTD	MOUNTED
CL	CENTERLINE	NC	NORMALLY CLOSED
DDC	DIRECT DIGITAL CONTROL	NIC	NOT IN CONTRACT
DFL	DEFLECTION	NO	NORMALLY OPEN
DN	DOWN	OAD	OUTSIDE AIR DAMPER
DP	DEW POINT	OAC	ON CENTER DISTANCE
DWDI	DOUBLE WIDTH DOUBLE INLET	OSA	OUTSIDE AIR
DWG	DRAWING	PH	PHASE
EA	EXHAUST AIR	PP	POLYPROPYLENE
EAD	EXHAUST AIR DAMPER	PP	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PVC	POLYVINYL CHLORIDE
EDB	ENTERING DRY BULB	PVS	PVC COATED STEEL
EFF	EFFICIENCY	R (RAD)	RADIUS
EFT	ENTERING FLUID TEMPERATURE	RA	RETURN AIR
ELEC	ELECTRICAL	RAD	RETURN AIR DAMPER
ELEV	ELEVATION	REV	REVISION
ENGR	ENGINEER	RH	RELATIVE HUMIDITY
EQ	EQUAL	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SCFM	STANDARD CUBIC FEET PER MINUTE
EWB	ENTERING WET BULB	SD	SMOKE DAMPER
EWT	ENTERING WATER TEMPERATURE	SECT	SECTION
EX	EXTRACTOR	SENS	SENSIBLE
EXH	EXHAUST	SIM	SIMILAR
EXIST	EXISTING	SP	STATIC PRESSURE
EXP	EXPANSION	SPEC	SPECIFICATION
F	FORWARD CURVED	PSI	POUNDS PER SQUARE INCH
FC	FEET PER CENT	SF	SQUARE FOOT (FEET)
FIG	FIGURE	SQ IN	SQUARE INCHES
FILT	FILTER	SS	STAINLESS STEEL
FLEX	FLEXIBLE	STL	STEEL
FPD	FLUID PRESSURE DROP	STR	STRUCTURE(AL)
FFM	FEET PER MINUTE	SWP	SINGLE WALL PLENUM
FPS	FEET PER SECOND	SWSI	SINGLE WIDTH SINGLE INLET
FT	FEET/FOOT	TEMP	TEMPERATURE
FTR	FINNED TUBE RADIATOR	TSP	TOTAL STATIC PRESSURE
FU	FIXTURE UNIT	TYP	TYPICAL
FUTURE	FUTURE	V	VOLTS
FV	FACE VELOCITY	VD	VOLUME DAMPER
GA	GAGE/GAUGE	VEL	VELOCITY
GAL	GALLON	VERT	VERTICAL
GALV	GALVANIZED	VFD	VARIABLE FREQUENCY DRIVE
GLY	GLYCOL	VTR	VENT THROUGH ROOF
GFH	GALLONS PER HOUR	W	WIDTH
GFPM	GALLONS PER MINUTE	WG	WATER GAUGE
H	HEIGHT	WPD	WATER PRESSURE DROP
HORIZ	HORIZONTAL	WTD	WATER TEMPERATURE DROP
HP	HORSEPOWER	WTR	WATER TEMPERATURE RISE
HTG	HEATING	W	WITH
ID	INSIDE(DIAMETER/DIMENSION)	W/O	WITHOUT

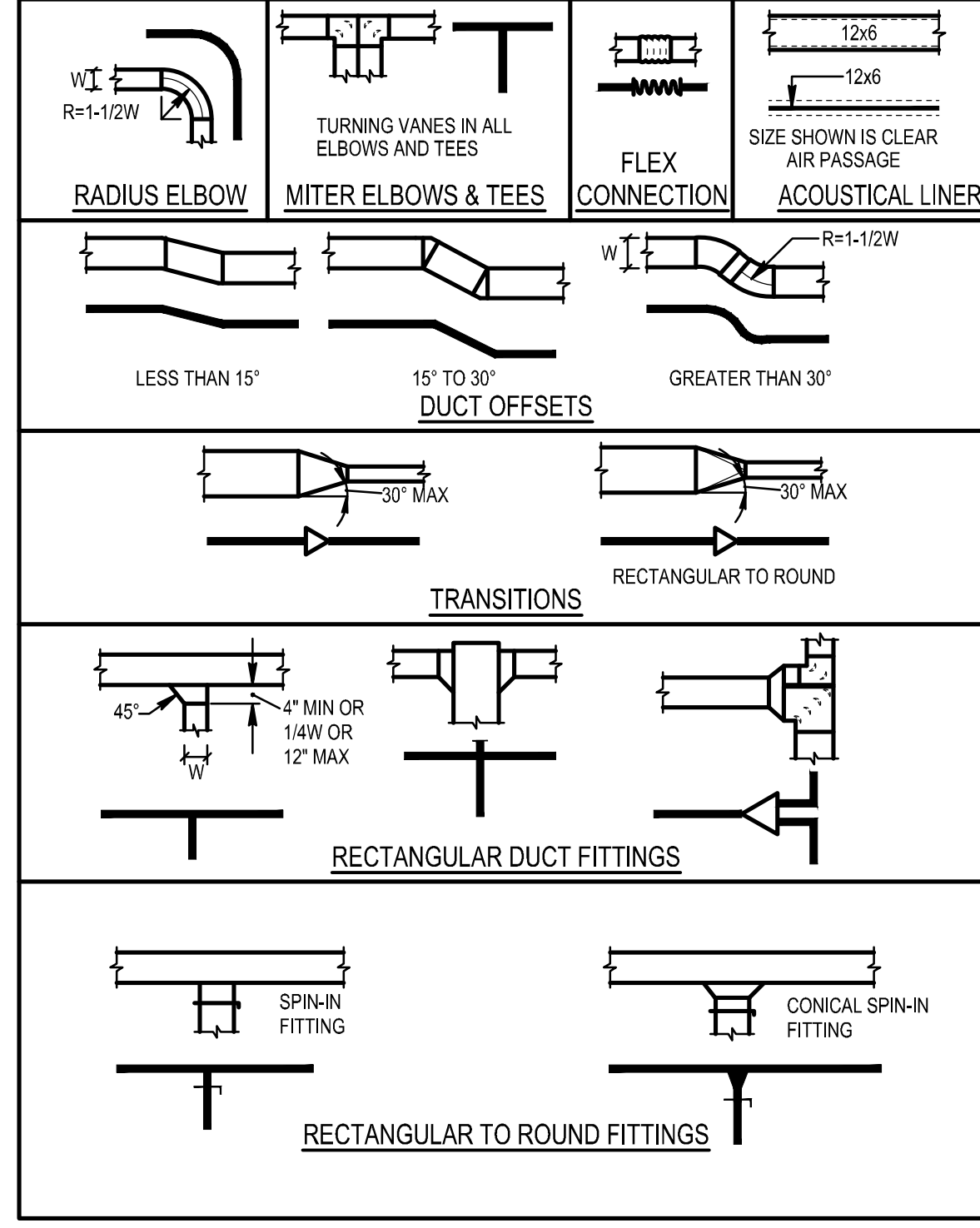
### HVAC PIPING

D	DRAIN (CONDENSATE/INDIRECT)
PC	PUMPED CONDENSATE
FWS	FWS FEEDWATER SUPPLY
OFL	OFL OVERFLOW
CHF	CHF CHEMICAL FEED
ICW	ICW INDUSTRIAL COLD WATER (MAKE-UP)
CHWS	CHWS CHILLED WATER SUPPLY
CHWR	CHWR CHILLED WATER RETURN
HWS	HWS HEATING WATER SUPPLY
HWR	HWR HEATING WATER RETURN
HTWS	HTWS HIGH TEMP. HOT WATER SUPPLY
HTWR	HTWR HIGH TEMP. HOT WATER RETURN
HRWS	HRWS HEAT RECOVERY WATER SUPPLY
HRWR	HRWR HEAT RECOVERY WATER RETURN
GLS	GLS GLYCOL SUPPLY
GLR	GLR GLYCOL RETURN
RS	RS REFRIGERANT SUCTION
RL	RL REFRIGERANT LIQUID
RHG	RHG REFRIGERANT HOT GAS
RRV	RRV REFRIGERANT RELIEF VENT

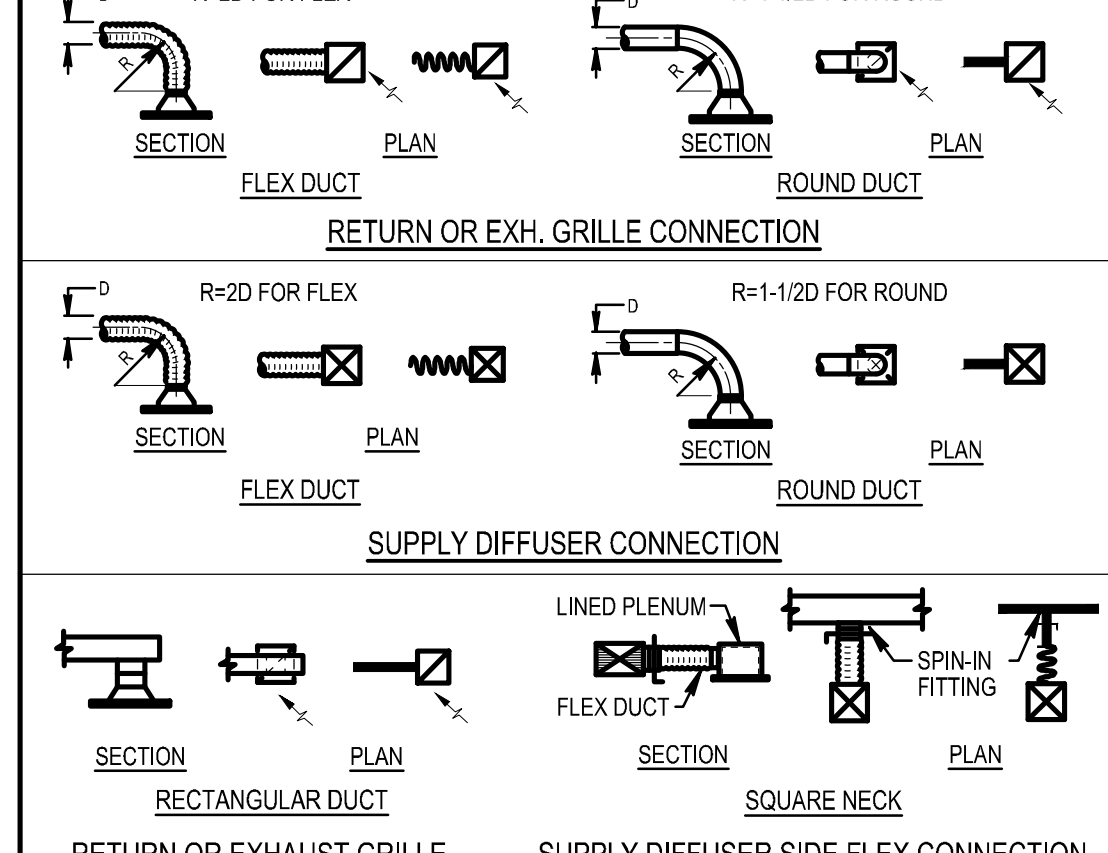
### DUCT LEGEND



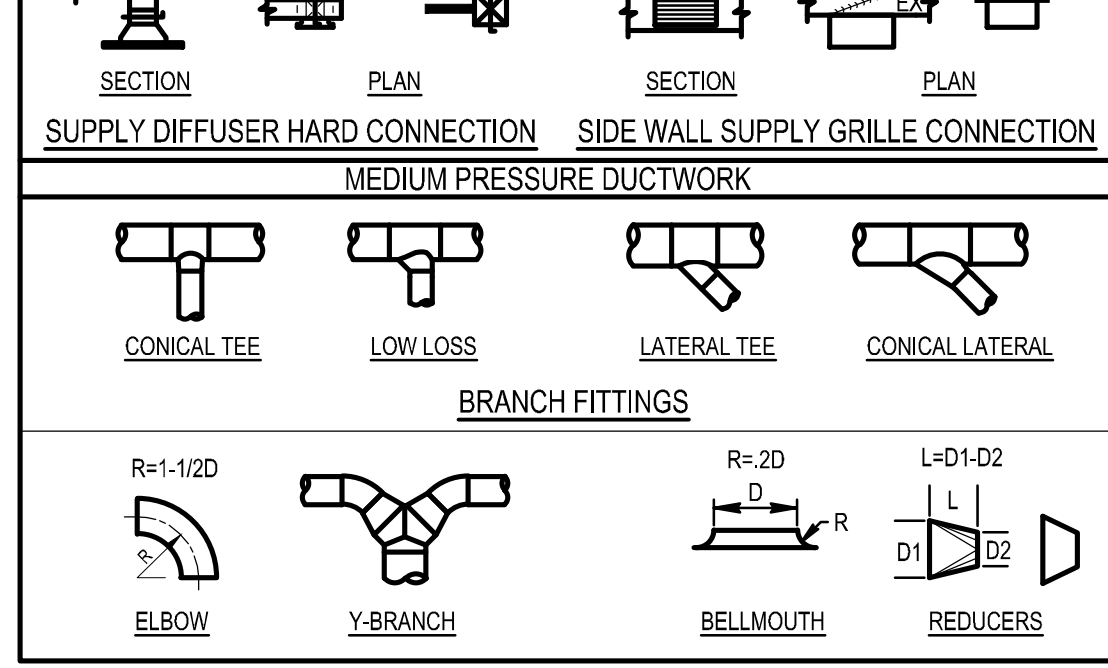
### DUCT DETAILS (LOW VELOCITY)



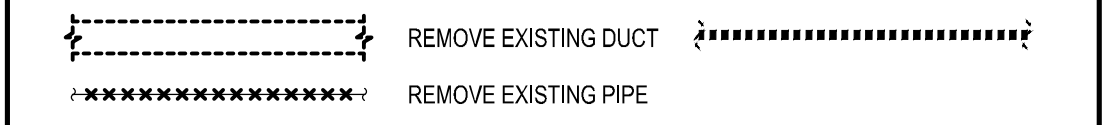
### LOW PRESSURE DUCTWORK



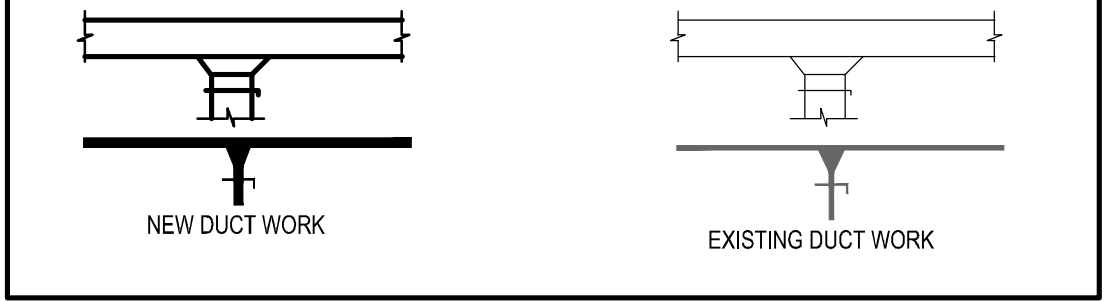
### MEDIUM PRESSURE DUCTWORK



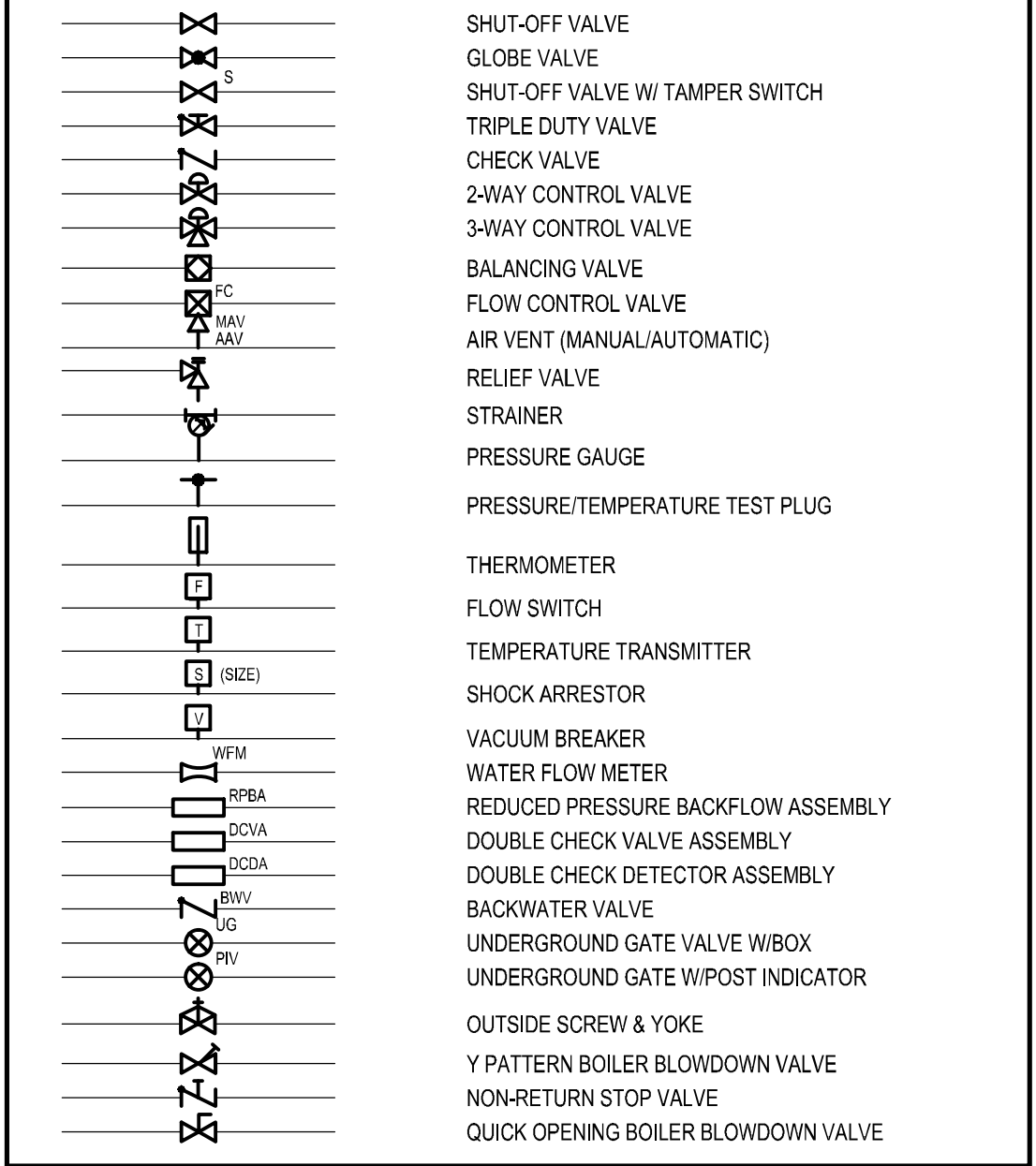
### DEMOLITION LEGEND



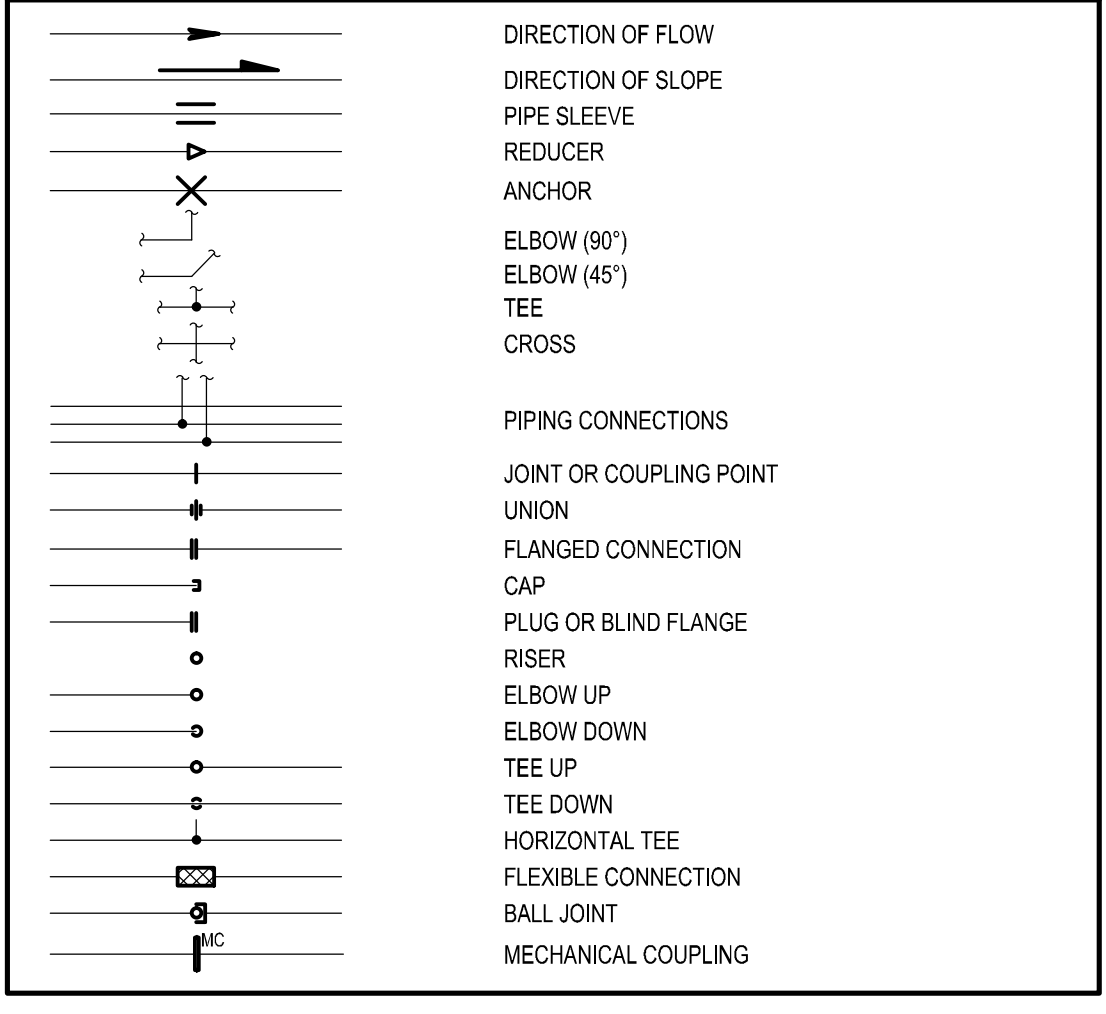
### NEW AND EXISTING WORK



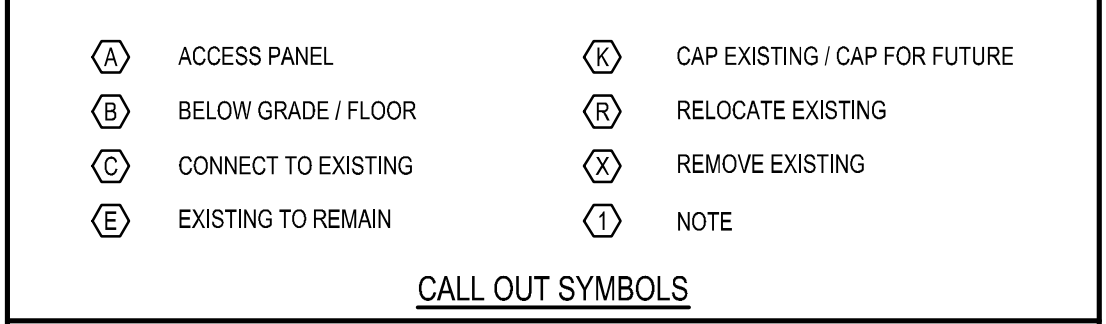
### MISC. VALVES & COCKS



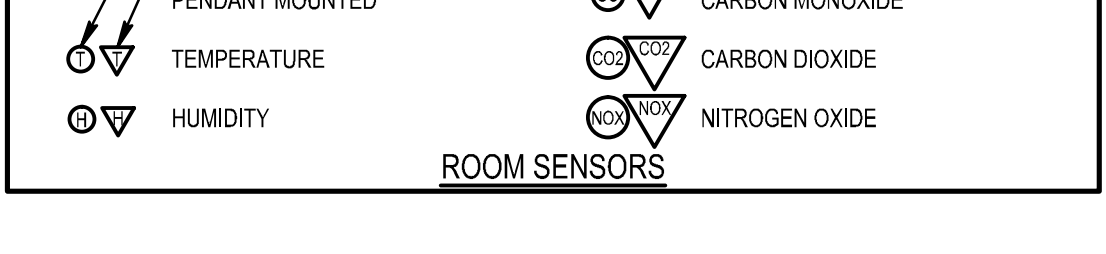
### MISC. FITTINGS & SYMBOLS



### SYMBOLS



### CALL OUT SYMBOLS



### GENERAL NOTE

THIS IS A STANDARD LEGEND SHEET. THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

### MECHANICAL DRAWING INDEX

SHEET NO	DESCRIPTION
M001	SYMBOLS, LEGENDS, AND ABBREVIATIONS - MECHANICAL
M002	EQUIPMENT SCHEDULES - MECHANICAL
M003	EQUIPMENT SCHEDULES - MECHANICAL
M101	DEMO FIRST FLOOR PLAN - MECHANICAL
M102	DEMO SECOND FLOOR PLAN - MECHANICAL
M201	FIRST FLOOR PLAN - MECHANICAL
M202	SECOND FLOOR PLAN - MECHANICAL
M501	DETAILS - MECHANICAL
M601	FLOW DIAGRAMS - MECHANICAL
M701	CONTROLS - MECHANICAL

### GENERAL NOTES

- REFER TO PROJECT BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR THIS PROJECT, IN CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS THE MOST STRINGENT SHALL GOVERN.
- ALL WORK TO BE IN ACCORDANCE WITH REQUIREMENTS OF LATEST GOVERNING STATE AND LOCAL, LOCAL FIRE CODES AND BUILDING CODES.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE IN ACCORDANCE WITH APPLICABLE LAWS AND CODES. GUARD ALL HAZARDOUS IN ACCORDANCE WITH THE SAFETY PROVISIONS OF THE LATEST MANUAL OF ACCIDENT PREVENTION PUBLISHED BY THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL TRADE PERMITS AND INSPECTIONS.
- THE SUBMISSION OF BID PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS AND SCOPE OF THE PROJECT. PRIOR TO BIDDING CONTRACTOR SHALL VISIT THE JOB SITE, CHECK EXISTING INSTALLATIONS AND SYSTEMS RELATED TO HIS WORK AND SHALL, IN THE BID PROPOSAL, INCLUDE ALL LABOR AND MATERIAL REQUIRED TO PROVIDE COMPLETE SYSTEMS.
- CONTRACTOR SHALL COMPLETE THE WORK WITH MINIMUM INTERFERENCE WITH EXISTING SYSTEMS. ANY SHUTDOWN OF THE EXISTING SYSTEMS SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE TWO WEEKS IN ADVANCE.
- CONTRACTOR SHALL PRESSURE AND LEAK TEST ALL EXISTING HVAC AND PLUMBING INFRASTRUCTURE (DUCTWORK AND PIPING) TO BE REUSED IN SCOPE OF PROJECT. IF ANY DUCTWORK OR PIPING IS FOUND TO BE DEFECTIVE CONTRACTOR SHALL PROVIDE ARCHITECT WITH COST ESTIMATE FOR REPAIR WORK REQUIRED (REPAIR OR REPLACEMENT AS NEEDED).
- EXISTING DUCTWORK AND PIPING INSULATION FOUND TO BE DAMAGED OR MISSING SHALL BE REPAIRED OR REPLACED WITH NEW INSULATION MEETING 2013 CODE REQUIREMENTS.
- IN THE AREA OF NEW CONSTRUCTION A NUMBER OF EXISTING SERVICES EXIST. PROTECT ALL ACTIVE INFRASTRUCTURE AND EQUIPMENT AND MAINTAIN THEM IN GOOD OPERATING CONDITION BEFORE, DURING, AND AFTER DEMOLITION AND CONSTRUCTION PHASES. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ARCHITECTURAL AND ALL OTHER TRADES AND THEIR DRAWINGS RELATED TO THIS PROJECT. PROVIDE ALL WORK REQUIRED FOR COMPLETE SYSTEM INSTALLATION.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED FOR EXACT LOCATION AND SIZES OF EXISTING UTILITIES. THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS AND NEW ROUTINGS, INSTALL ALL EQUIPMENT, DUCTWORK AND PIPING TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH THE WORK OF OTHER TRADES. THE DRAWINGS SHALL NOT BE SCALED TO DETERMINE EXACT LOCATIONS EQUIPMENT, DUCTWORK, OR PIPING.
- NOT ALL PIPING AND DUCTWORK TRANSITIONS AND/OR OFFSETS ARE SHOWN. PROVIDE TRANSITIONS AND/OR OFFSETS REQUIRED AT NO ADDITIONAL COST TO OWNER.
- SEAL ALL FIRE RATED PIPE AND DUCTWORK PENETRATIONS WITH UL LISTED AND STATE FIRE MARSHAL APPROVED FIRE RETARDANT MATERIALS AND METHODS.
- CONTRACTOR SHALL PROVIDE DUCTWORK AND TRANSITION EQUAL TO DUCT FREE AREA OF DUCTWORK AS SHOWN ON DRAWING, TO PREVENT A CONFLICT WITH EXISTING CONDITIONS AND TO RESOLVE DUCTWORK CONFLICTS. DUCTWORK DIMENSIONS CAN BE REVISED AS LONG AS DUCT CROSS-SECTIONAL AREA REMAINS THE SAME AND LENGTH TO WIDTH RATIO IS LESS THAN 3.
- BRANCH DUCT RUN-OUT SIZE TO DIFFUSERS/GRILLES SHALL BE THE SAME SIZE AS DIFFUSERS/GRILLES NECK SIZE UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF DIFFUSERS AND GRILLES WITH OTHER CEILING AND/OR WALL DEVICES BEFORE COMMENCEMENT OF THE WORK.
- PROVIDE OFFSETS AND/OR TRANSITIONS TO NEW OR EXISTING DUCT OR PIPING REQUIRED AS RESULT OF JOB CONDITIONS OR LACK OF COORDINATION WITH OTHER TRADES AT NO ADDITIONAL COST TO OWNER AND SUBJECT TO ARCHITECT'S REVIEW.
- CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL AND COMPONENTS REQUIRED TO SUPPORT DUCT, PIPE, MECHANICAL EQUIPMENT, AND ELECTRICAL CONTROL PANELS RELATED TO MECHANICAL EQUIPMENT. PROVIDE FLOOR SUPPORT COMPONENTS, HANGERS AND SEISMIC RESTRAINTS AS REQUIRED. MECHANICAL CONTRACTOR SHALL PROVIDE SHIM TO LEVEL ALL EQUIPMENT AS REQUIRED.
- SEISMIC BRACING OF MECHANICAL EQUIPMENT, PIPING, AND DUCTWORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2013 CALIFORNIA BUILDING CODE. ALL ANCHORING AND SEISMIC RESTRAINT OF DUCT, PIPE, AND EQUIPMENT SHALL BE REVIEWED AND APPROVED (STAMPED AND SIGNED) CALCULATIONS SHALL BE PROVIDED FOR REVIEW WITH EVERY EQUIPMENT SUBMITTAL BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER.
- CONSTRUCT AND INSTALL DUCTWORK ACCORDING TO SMACNA AND ALL APPLICABLE CODES INCLUDING ALL DIVISION OF STATE ARCHITECT CODE REQUIREMENTS INCLUDING ALL AGREEMENTS AND SUBJECT TO ARCHITECT'S REVIEW.
- PROVIDE MANUAL VOLUME DAMPERS UPSTREAM OF EACH AIR OUTLET.
- ALL DUCTWORK CONNECTIONS TO EQUIPMENT WITH MOTORS SHALL BE MADE WITH FLEXIBLE CONNECTIONS.
- ALL DUCTWORK LOCATED INSIDE WALL CAVITIES OR INACCESSIBLE SPACES SHALL BE LEAK TESTED AND INSULATED WITH VAPOR BARRIER SEAL BEFORE CLOSING WALL.
- PROVIDE FIRE SMOKE DAMPERS FOR ANY DUCTWORK CROSSING A FIRE-RATED ASSEMBLY. FIRE SMOKE DAMPER FIRE RATING SHALL MATCH OR EXCEED WALL FIRE RATING.
- COORDINATION ITEMS:  
A. MECHANICAL CONTRACTOR SHALL:  
1. PROVIDE ALL COMBINATION FIRE SMOKE DAMPERS (FSD). FIRE SMOKE DAMPERS SHALL BE CONTROLLED BY DUCT SMOKE DETECTORS. PROVIDE ALL FSD'S WITH 120V ELECTRICAL ACTUATORS.  
2. INSTALL ALL FIRE SMOKE DAMPERS AND DUCT SMOKE DETECTORS. COORDINATE WITH FIRE ALARM AND ELECTRICAL CONTRACTORS.  
3. COORDINATE WITH CEILING CONTRACTOR FOR ACCESS TO FIRE SMOKE DAMPERS (FSD).  
B. FIRE ALARM CONTRACTOR SHALL:  
1. PROVIDE ALL DUCT SMOKE DETECTORS. COORDINATE INSTALLATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS.  
2. CONNECT ALL FIRE SMOKE DAMPERS TO FIRE ALARM (LIFE SAFETY) SYSTEM.  
C. ELECTRICAL CONTRACTOR SHALL:  
1. PROVIDE 120V POWER TO FSD DAMPERS AND TO DC CONTROL PANELS/TRANSFORMERS. COORDINATE FSD INSTALLATION WITH MECHANICAL AND FIRE ALARM CONTRACTORS.  
2. ALL PIPING SHALL BE CONNECTED TO COILS AND EQUIPMENT CONTAINING FANS/PUMPS WITH FLEXIBLE CONNECTIONS.  
25. ALL PIPING LOCATED INSIDE WALL CAVITIES OR INACCESSIBLE SPACES SHALL BE LEAK TESTED AND INSULATED WITH VAPOR BARRIER SEAL BEFORE CLOSING WALL.  
26. COORDINATE CORE DRILLING OF STRUCTURAL CONCRETE WALLS FOR PIPE PENETRATIONS. DIAMETER OF WALL OPENING SHALL BE 2 INCHES LARGER THAN THE DIAMETER OF PIPE WITH INSULATION. SEAL ALL PENETRATIONS WITH UL APPROVED SEALANT.  
27. ALL VALVES AND OTHER PIPING SPECIALTIES SHALL BE OF SAME SIZE AS LINE SIZE UON.  
28. INSTALL SHUT-OFF VALVES AT EACH BRANCH PIPE LINE.  
29. PROVIDE MINIMUM 4" AIR GAP AT ALL DRAIN CONNECTIONS.  
30. COORDINATE LOCATIONS OF ACCESS DOORS WITH VALVE LOCATIONS. THE OPENING SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE.  
31. ALL CONTROL PANELS SHALL BE MOUNTED NO LESS THAN 4 FEET ABOVE THE FINISHED FLOOR. HIGHEST ELECTRICAL DEVICE PLACEMENT SHALL NOT EXCEED FINISHED FLOOR.  
32. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO APPROVAL BY OWNER, ARCHITECT, AND ENGINEER OF RECORD. ANY PORTION OF THE WORK OR EQUIPMENT FOUND TO BE DEFICIENT SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.  
33. PROTECT EXISTING BUILDING STRUCTURES. DURING CONSTRUCTION, PATCH, REPAIR AND REFINISH EXISTING WORK DAMAGED AS NEEDED. PATCHING AND REFINISHING IS TO BE PERFORMED BY WORKMEN SKILLED IN THE TRADES INVOLVED. DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT THE REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.  
34. CONTRACTOR SHALL PROVIDE DUST CURBS AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA AND KEEP DIRT AND DUST TO A MINIMUM.  
35. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.  
36. GENERAL CONTRACTOR SHALL RETAIN INDEPENDENT TESTING AGENCY FOR TESTING AND BALANCING OF AIR AND WATER SYSTEMS. TESTING AGENCY SHALL BE MEMBER OF AABC AND SHALL SUBMIT THE FINAL BALANCE REPORT WITHIN 10 DAYS OF THE COMPLETION OF WORK. TESTING AGENCY SHALL ALLOW A 90-DAY PERIOD AFTER COMPLETION OF TESTING DURING WHICH TIME ADJUSTMENTS TO THE SYSTEM MAY BE REQUESTED BY THE ENGINEER WITHOUT ADDITIONAL COST TO THE CLIENT.  
37. CONTRACTOR SHALL COORDINATE WITH SUBCONTRACTORS AND PROVIDE FOR ALL EXPOSED EQUIPMENT, PIPE, DUCT, CONDUIT, AND OTHER MEP ELEMENTS WHICH ARE VISIBLE FROM THE OCCUPIED SPACE TO BE PAINTED OR PROVIDED WITH FINISH AS REQUIRED BY ARCHITECT. COORDINATE WITH ARCHITECT COLOR/SHADE/FINISH TO BE USED IN PAINTING SUCH ELEMENTS.

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college of marin - indian valley campus bldg. 11 renovation

novato, california  
project number: 17-1095

scale: NONE  
date: 16/02/2017

SYMBOLS, LEGENDS AND ABBREVIATIONS - MECHANICAL

M001

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Date: 3/10/17 Time: 3:25pm File: P:\2017\17-1095 - College of Marin VC Bldg 11 Renovation\01 Dwg\CAD\17-1095\_M001.dwg User: andrew.mcgonn file:



### HEAT RECOVERY VRV SYSTEM SCHEDULE - OUTDOOR CONDENSER UNITS

TAG NUMBER	LOCATION	SERVICE	TYPE	QUANTITY	CAPACITY (MBH)			PIPING CONNECTIONS (IN.)		POWER				ELECTRICAL			APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
					TOTAL COOLING CAPACITY	TOTAL HEATING CAPACITY	FAN AIRFLOW (CFM)	LIQUID	GAS	VOLTS	PHASE	HZ	RLA	MCA	MOP	E-POWER (Y/N)			
CU-1	OUTDOOR EQUIPMENT PAD	1ST FLOOR	AIR COOLED CONDENSING UNIT	1	134.0	150.0	8228	1/2	1-1/8	208	3	60	16.2+22.6	55.0	70	Y	800	DAIKIN REYQ144TTJU	1, 2, 3

**GENERAL NOTES:**

- A. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS.
- B. PROVIDE COMPRESSOR WITH BRUSHLESS MOTOR, INVERTER, AND HIGH EFFICIENCY 6-POLE MOTOR.
- C. PROVIDE CONDENSER WITH DC FAN MOTOR.
- D. PROVIDE VRV IV HEAT RECOVERY MODEL.
- E. INCLUDE CONFIGURATOR SOFTWARE FOR OPTIMIZED SEASONAL ENERGY EFFICIENCY AND SIMPLIFIED COMMISSIONING.

**NOTES:**

- 1. REFRIGERANT = 410a
- 2. PROVIDE ANCHORAGE AND SEISMIC SUPPORT FOR OUTDOOR UNIT ON CONCRETE EQUIPMENT PAD.
- 3. PROVIDE FOR ALL REFRIGERANT, POWER, CONTROLS CONNECTIONS BETWEEN OUTDOOR AND INDOOR UNITS, BRANCH SELECTORS, AS WELL AS INDOOR AND CENTRAL DAIKIN CONTROL PANEL.

### HEAT RECOVERY VRV SYSTEM SCHEDULE - BRANCH SELECTOR BOXES

TAG NUMBER	FLOOR	LOCATION	TYPE	QUANTITY	POWER			ELECTRICAL			APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
					VOLTS	PHASE	HZ	MCA	E-POWER (Y/N)				
BS-1-1	1ST	CORRIDOR	BRANCH SELECTOR BOX	1	208	1	60HZ	0.6	Y	90	BS6Q54TVJ	1,2,4,5	
BS-2-1	2ND	CORRIDOR	BRANCH SELECTOR BOX	1	208	1	60HZ	1	Y	110	BS10Q54TVJ	1,3,4,5	

**GENERAL NOTES:**

- A. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS.
- B. CONNECT UNITS TO NEW CENTRAL BMS.

**NOTES:**

- 1. REFRIGERANT = R410A
- 2. 4 PORT BRANCH SELECTOR BOX. SERVING 4 AC UNITS. SEE FLOOR PLANS.
- 3. 10 PORT BRANCH SELECTOR BOX. SERVING 10 AC UNITS. SEE FLOOR PLANS.
- 4. PROVIDE INSULATION BALL VALVES ON PIPING BETWEEN BRANCH SELECTOR BOX AND EACH AC UNIT THAT IT SERVES.
- 5. PROVIDE ANCHORAGE AND SEISMIC SUPPORT FOR BRANCH SELECTORS

### HEAT PUMP VRF SYSTEM SCHEDULE - INDOOR UNITS

TAG NUMBER	FLOOR	ROOM	TYPE	QUANTITY	OUTSIDE AIR CFM	CAPACITY (MBH)			FAN AIRFLOW (CFM)	PIPING CONNECTIONS (IN.)		POWER				ELECTRICAL			APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
						TOTAL COOLING CAPACITY	SENSIBLE COOLING	TOTAL HEATING CAPACITY		LIQUID	GAS	VOLTS	PHASE	HZ	MCA	MOP	E-POWER (Y/N)				
FCU-1-1	1ST FLOOR	102A,105	CEILING CONCEALED	1	60	7	6.9	6.1	355	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ09PBCJUJ	1,2,3	
FCU-1-2	1ST FLOOR	102B	CEILING CONCEALED	1	30	3.6	3.4	2.2	150	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ07PBCJUJ	1,2,3	
FCU-1-3	1ST FLOOR	103,104	CEILING CONCEALED	1	60	7.8	7.7	4.9	385	1/4	1/2	208	1	60HZ	1.40	15	Y	60	FXMQ12PBCJUJ	1,2,3	
FCU-1-4	1ST FLOOR	100,101	CEILING CONCEALED	1	125	9.3	9.3	10.1	400	1/4	1/2	208	1	60HZ	1.40	15	Y	80	FXMQ12PBCJUJ	1,2,3	
FCU-1-5	1ST FLOOR	110	CEILING CONCEALED	1	65	11.8	11.2	6.0	505	1/4	1/2	208	1	60HZ	1.50	15	Y	80	FXMQ15PBCJUJ	1,2,3	
FCU-2-1	2ND FLOOR	206	CEILING CONCEALED	1	40	9	8.4	5.3	380	1/4	1/2	208	1	60HZ	1.40	15	Y	80	FXMQ12PBCJUJ	1,2,3	
FCU-2-2	2ND FLOOR	207A	CEILING CONCEALED	1	90	5.6	5.3	5.2	235	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ07PBCJUJ	1,2,3	
FCU-2-3	2ND FLOOR	207B	CEILING CONCEALED	1	90	5.5	5.3	5.3	230	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ07PBCJUJ	1,2,3	
FCU-2-4	2ND FLOOR	208,209	CEILING CONCEALED	1	65	10.5	10.5	6.9	525	1/4	1/2	208	1	60HZ	1.50	15	Y	80	FXMQ15PBCJUJ	1,2,3	
FCU-2-5	2ND FLOOR	201	CEILING CONCEALED	1	30	4.2	3.9	2.6	160	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ07PBCJUJ	1,2,3	
FCU-2-6	2ND FLOOR	202	CEILING CONCEALED	1	30	5.2	4.9	2.6	210	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ07PBCJUJ	1,2,3	
FCU-2-7	2ND FLOOR	203	CEILING CONCEALED	1	30	6.7	6.5	3.9	270	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ09PBCJUJ	1,2,3	
FCU-2-8	2ND FLOOR	204	CEILING CONCEALED	1	30	3.5	3.3	2.7	135	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ07PBCJUJ	1,2,3	
FCU-2-9	2ND FLOOR	205	CEILING CONCEALED	1	30	3.8	3.6	3.0	145	1/4	1/2	208	1	60HZ	0.60	15	Y	60	FXMQ07PBCJUJ	1,2,3	
FCU-2-10	2ND FLOOR	214	CEILING CONCEALED	1	145	14.4	14.3	10.6	550	1/4	1/2	208	1	60HZ	1.60	15	Y	80	FXMQ18PBVJUJ	1,2,3	

**GENERAL NOTES:**

- A. SIZE REFRIGERANT PIPING PER MANUFACTURER'S INSTRUCTIONS.
- B. CONNECT UNITS TO NEW CENTRAL BMS.

**NOTES:**

- 1. REFRIGERANT = R410A
- 2. PROVIDE ANCHORAGE AND SEISMIC SUPPORT FOR INDOOR UNITS.
- 3. PROVIDE INDOOR UNITS WITH INTEGRAL CONDENSATE PUMP AND SINGLE POWER CONNECTION FOR UNIT AND CONDENSATE PUMP.

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novato, california  
 project number: 17-1095

scale: 1/4" = 1'-0"  
 date: 16/02/2017

**EQUIPMENT SCHEDULE MECHANICAL**

**M002**



### DIFFUSER AND GRILLE SCHEDULE

TAG NUMBER	MODULE SIZE	NECK SIZE	FINISH	SERVICE	BORDER	MATERIAL	MAX. NC	BASED ON	NOTES
SAG-1	24"X24	SEE NOTE 4	COORDINATE WITH ARCHITECTURAL PLANS	SUPPLY	COORD. W/RCP	STEEL	30	TITUS PAS	1,2,4
RAG-1	24"X24	SEE NOTE 4	COORDINATE WITH ARCHITECTURAL PLANS	RETURN	COORD. W/RCP	STEEL	30	TITUS PAR	1,2,4
SAG-2	SEE PLANS	SEE PLANS	COORDINATE WITH ARCHITECTURAL PLANS	SUPPLY	COORD. W/RCP	STEEL	30	TITUS 301RL	1,2
RAG-2	SEE PLANS	SEE PLANS	COORDINATE WITH ARCHITECTURAL PLANS	RETURN	COORD. W/RCP	STEEL	30	TITUS 350RL	1,2

**GENERAL NOTES:**  
A. NONE

**NOTES:**  
1. COORDINATE EXACT DIFFUSER LOCATION WITH LIGHTS AND OTHER CEILING DEVICES, REFER TO ARCH. PLANS, DIFFUSER FRAME SHALL MATCH CEILING TYPE, BORDER AND FINISH/COLOR SHALL BE APPROVED BY ARCHITECT. PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION.  
2. WHERE DUCT CONNECTING TO THE DIFFUSER (OR PLENUM) IS SMALLER THAN THE SPECIFIED DIFFUSER NECK SIZE, PROVIDE AND INSTALL CONICAL INCREASER.  
3. FOR ALL LINEAR SUPPLY DIFFUSERS PROVIDE DIFFUSER MANUFACTURER'S LINED RECTANGULAR PLENUM WITH NECK SIZE AS INDICATED ON SCHEDULE.  
4. NECK SIZES SHALL BE AS FOLLOWS:  

<u>24x24 SUPPLY</u>	<u>12x12 SUPPLY</u>	<u>24x24 RETURN/EXHAUST</u>	<u>12x12 RETURN/EXHAUST</u>
6" < 150 CFM	12" < 390 CFM	6" < 120 CFM	ALL 15"
8" < 230 CFM	14" < 500 CFM	8" < 160 CFM	ALL 10"x10"
10" < 300 CFM			

### FAN SCHEDULE

TAG NUMBER	LOCATION	SERVICE	QUANTITY	TYPE	AIRFLOW		MOTOR			VFD	APPROX. WEIGHT (LBS)	MANUFACTURER & MODEL	NOTES
					CFM	TSP (IN WG)	FAN RPM	HP	VOLTAGE / PHASE				
EF-RF-1	ROOF	L1 TOILET EXHAUST	1	ROOF MOUNTED	340	0.250	1140	1/10	115/1	YES	NO	GREENHECK G-090-VG	2,3,4,5
EF-RF-2	ROOF	L2 TOILET AND RELIEF AIR	1	ROOF MOUNTED	560	0.250	1260	1/10	115/1	YES	NO	GREENHECK G-090-VG	2,3,4,5
SF-1-1	1ST FLOOR	L1 FCU VENTILATION AIR	1	INLINE CABINET	350	0.250	1248	1/10	115/1	YES	NO	GREENHECK SQ-80-VG	1,3,4,5
SF-2-1	2ND FLOOR	L2 FCU VENTILATION AIR	1	INLINE CABINET	315	0.250	1725	1/10	115/1	YES	NO	GREENHECK SQ-80-VG	1,3,4,5
SF-2-2	2ND FLOOR	L2 FCU VENTILATION AIR	1	INLINE CABINET	260	0.250	1725	1/10	115/1	YES	NO	GREENHECK SQ-80-VG	1,3,4,5

**GENERAL NOTES:**  
A. NONE

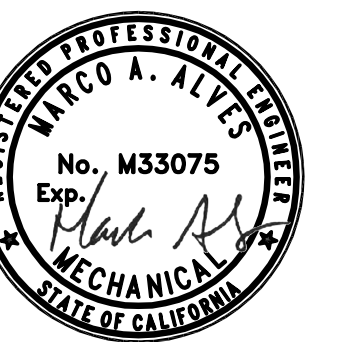
**NOTES:**  
1. SEE 1ST FLOOR PLAN FOR FAN LOCATION.  
2. PROVIDE ROOF CURB WITH FAN ATTACHED PER MANUFACTURERS RECOMMENDATIONS.  
3. PROVIDE ANCHORAGE AND SEISMIC SUPPORT FOR ALL FANS.  
4. PROVIDE CONTROLS RELAY FOR ALL FANS AND CONNECT TO CENTRAL DAIKIN CONTROL PANEL. FANS SHALL BE ACCESSIBLE FOR VIEWING AND CONTROLLING (SCHEDULIN, START/STOP, ALARM).  
5. PROVIDE VARIABLE SPEED SWITCHES (RHEOSTAT) FOR ALL FANS TO ALLOW FOR AIR BALANCING.

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novato, california  
project number: 17-1095

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date: 16/02/2017

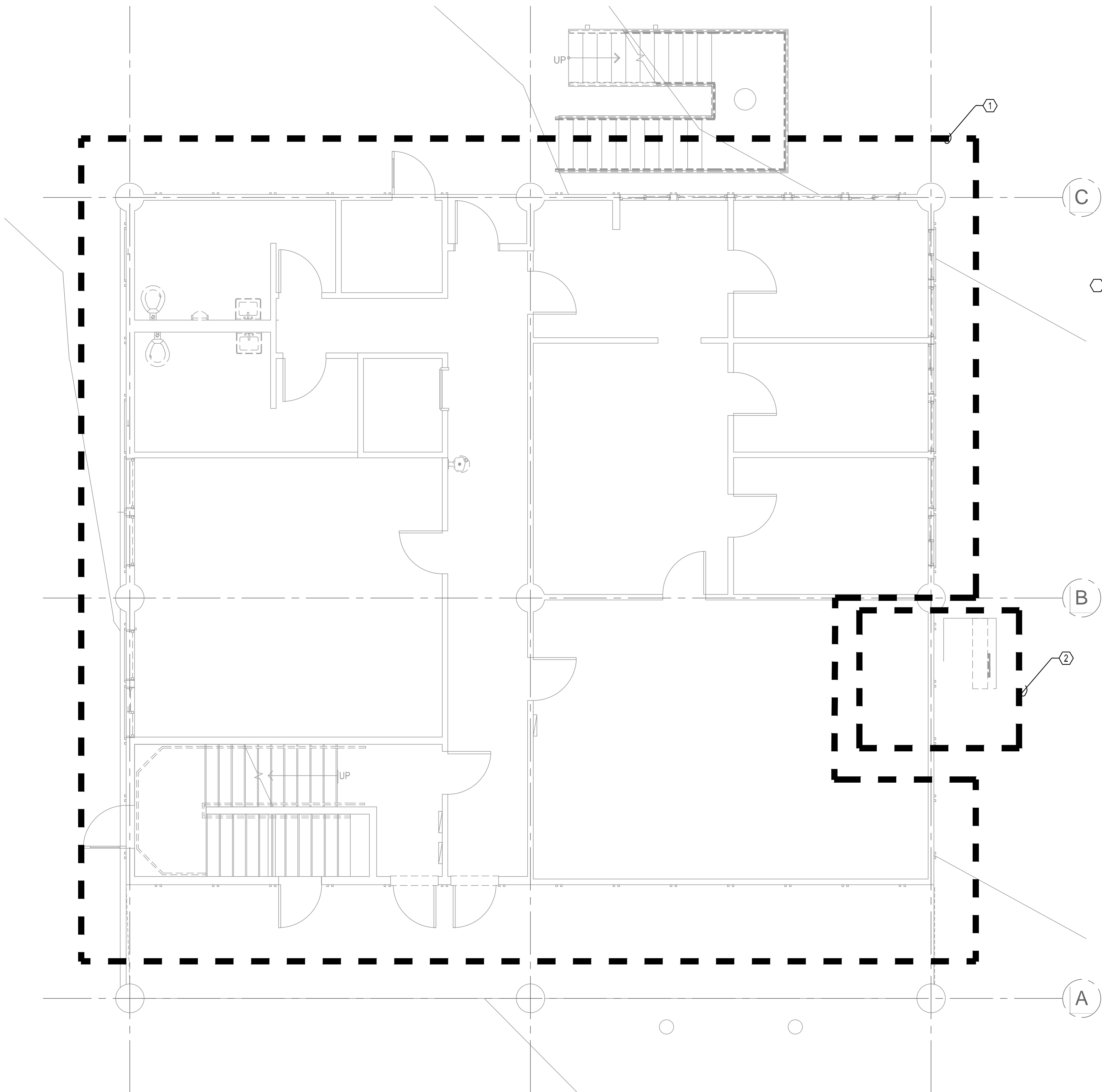
**EQUIPMENT SCHEDULE MECHANICAL**

**M003**



Date: 3/10/17 Time: 1:10pm File: P:\2017\17-1095 - College of Marin IVC Bldg 11 Renovation\01 Dwg\CAD\17-1095\_M101.dwg User: andrew.mcnam

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**GENERAL NOTES:**

- A. SEE M001 FOR PROJECT DESCRIPTION, GENERAL NOTES, AND PROJECT SPECIFICATIONS.
- B. PRIOR TO SUBMITTING PROPOSAL, CONTRACTOR SHALL VISIT PROJECT SITE AND THOROUGHLY INSPECT ALL EXISTING CONDITIONS.
- C. ALL EQUIPMENT, DUCT, AND PIPE SUPPORTS WITHIN THE PROJECT AREA THAT ARE EXISTING TO BE REUSED SHALL BE TESTED AS REQUIRED TO MEET CURRENT CALIFORNIA BUILDING CODE REQUIREMENTS FOR ANCHORING, SUPPORT, AND SEISMIC BRACING.
- D. CONTRACTOR SHALL FIRE STOP ALL WALL OPENINGS NEW AND EXISTING WITH A UL LISTED, FIRE MARSHALL APPROVED METHOD AND MATERIALS.
- E. REPAIR ALL OPENINGS MADE BY DEMOLITION OF EXISTING EQUIPMENT, DUCT, PIPE, ETC.
- F. DEMOLITION WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING: REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING, DUCTWORK, CONTROLS AND ALL APPURTENANCES WHERE INDICATED ON THE PLANS.

**NOTES:**

- 1. DEMOLISH ALL HVAC EQUIPMENT AND INFRASTRUCTURE WITHIN THE BUILDING WITH THE EXCEPTION OF EXISTING LIEBERT AC UNIT INCLUDING OUTDOOR CONDENSING UNIT AND INDOOR AC UNIT SERVING FORMER SERVER ROOM (NEW ROOM 101 - STORAGE).
- 2. KEEP EXISTING LIEBERT OUTDOOR CONDENSING UNIT, ASSOCIATED INDOOR AC UNIT AND ASSOCIATED PIPING.

**1**  
**M101** DEMO FIRST FLOOR PLAN - MECHANICAL  
SCALE: 1/4" = 1'-0"

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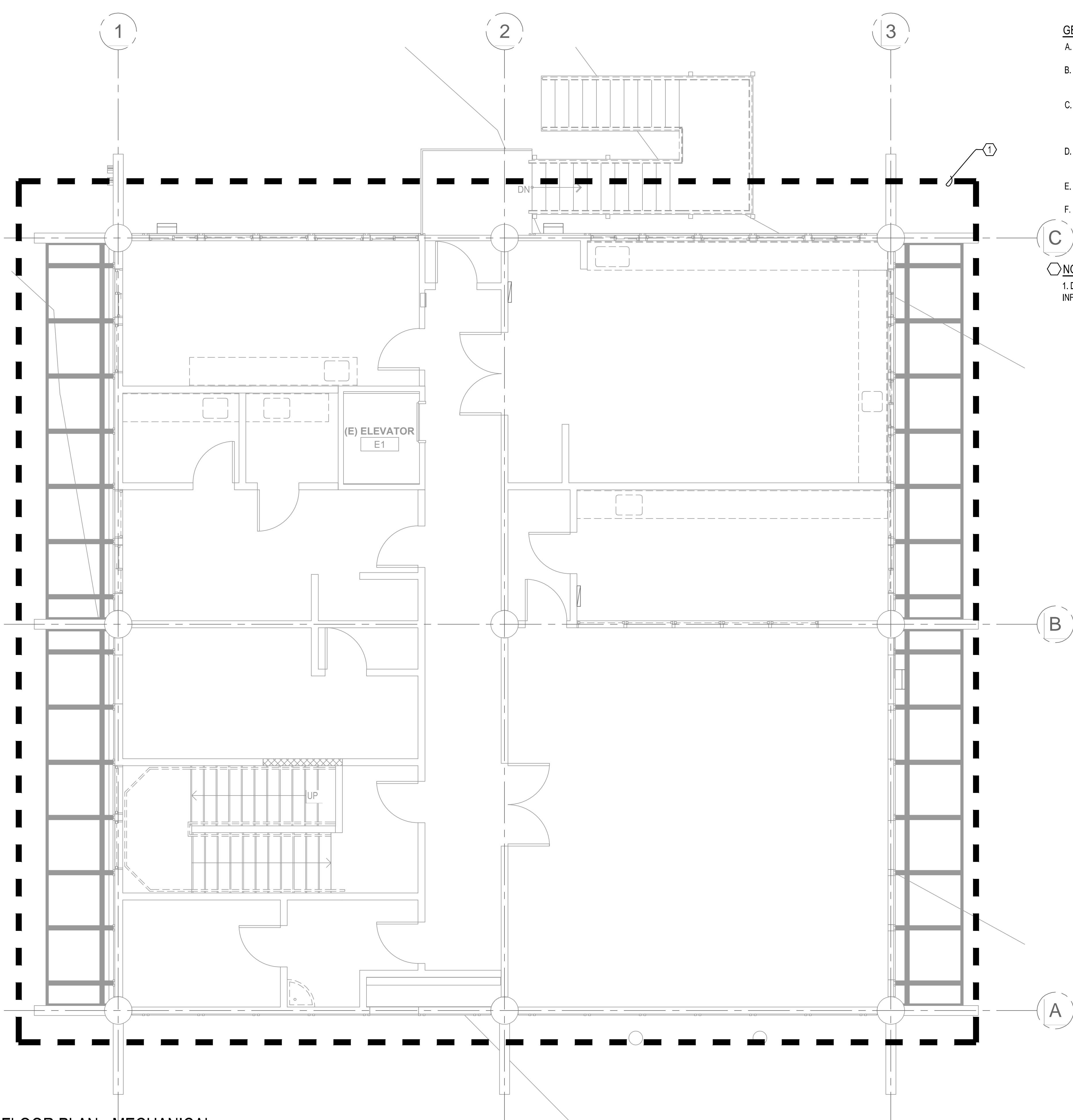
**DEMO FIRST FLOOR PLAN - MECHANICAL**

**M101**



Date: 3/10/17 Time: 1:16pm File: P:\2017\17-1095 - College of Marin VC Bldg 11 Renovation\01 Dwg\CAD\17-1095\_M102.dwg User: andrew.mcgonn

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- GENERAL NOTES:**
- A. SEE M001 FOR PROJECT DESCRIPTION, GENERAL NOTES, AND PROJECT SPECIFICATIONS.
  - B. PRIOR TO SUBMITTING PROPOSAL, CONTRACTOR SHALL VISIT PROJECT SITE AND THOROUGHLY INSPECT ALL EXISTING CONDITIONS.
  - C. ALL EQUIPMENT, DUCT, AND PIPE SUPPORTS WITHIN THE PROJECT AREA THAT ARE EXISTING TO BE REUSED SHALL BE TESTED AS REQUIRED TO MEET CURRENT CALIFORNIA BUILDING CODE REQUIREMENTS FOR ANCHORING, SUPPORT, AND SEISMIC BRACING.
  - D. CONTRACTOR SHALL FIRE STOP ALL WALL OPENINGS NEW AND EXISTING WITH A UL LISTED, FIRE MARSHALL APPROVED METHOD AND MATERIALS.
  - E. REPAIR ALL OPENINGS MADE BY DEMOLITION OF EXISTING EQUIPMENT, DUCT, PIPE, ETC.
  - F. DEMOLITION WORK SHALL INCLUDE BUT IS NOT LIMITED TO THE FOLLOWING: REMOVAL OF EQUIPMENT, SUPPORTS, ANCHORS, PIPING, DUCTWORK, CONTROLS AND ALL APPURTENANCES WHERE INDICATED ON THE PLANS.

(C)

- NOTES:**
- 1. DEMOLISH ALL HVAC EQUIPMENT AND INFRASTRUCTURE WITHIN THE BUILDING.

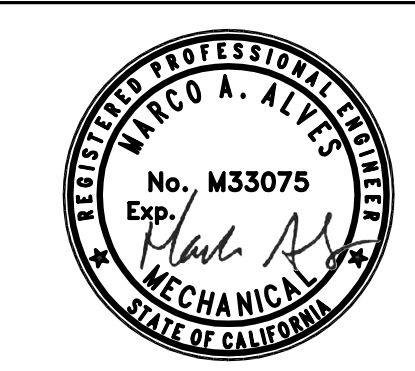
**1** DEMO SECOND FLOOR PLAN - MECHANICAL  
 M202 SCALE: 1/4" = 1'-0"

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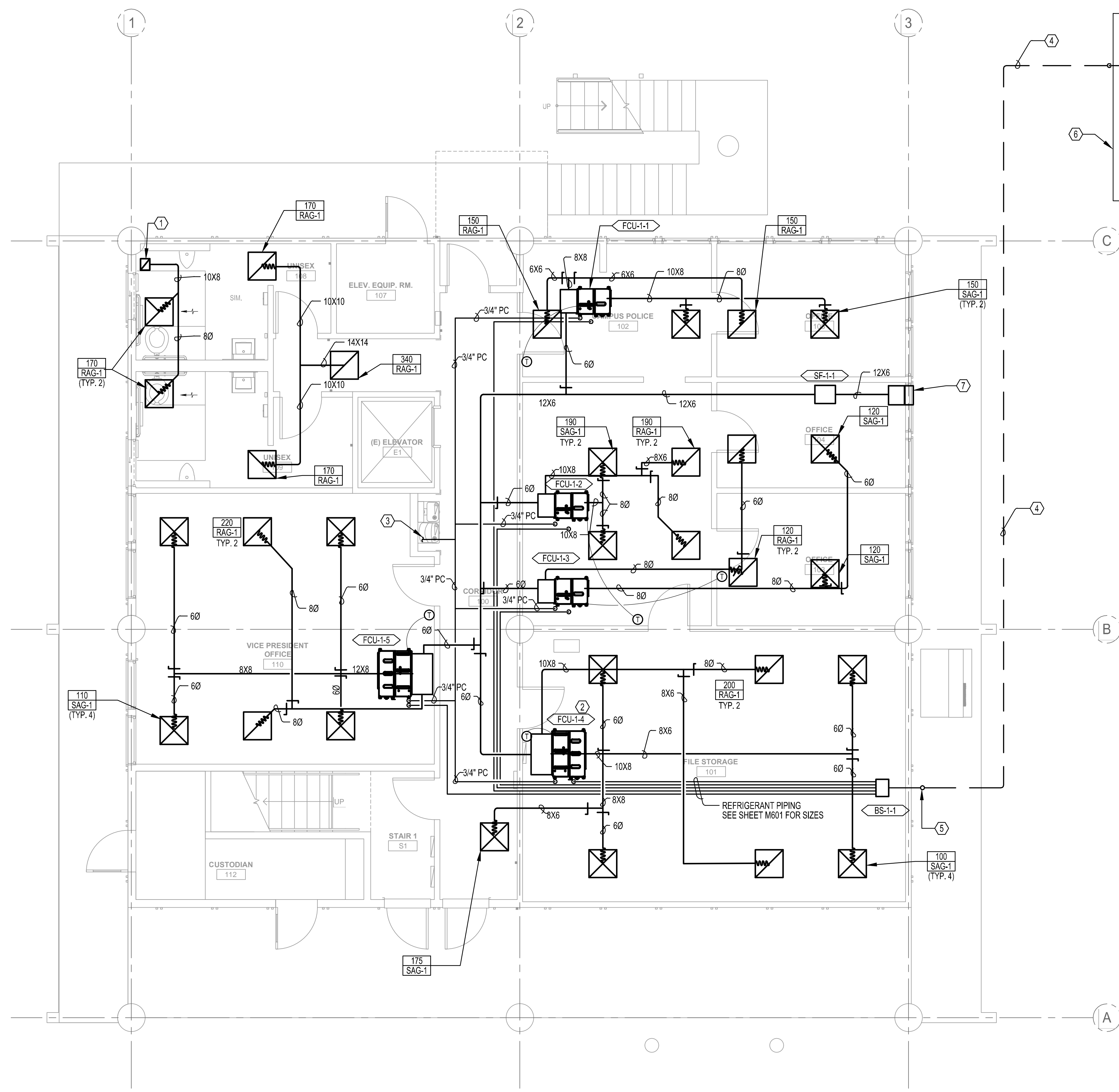
**DEMO SECOND FLOOR PLAN - MECHANICAL**

**M102**



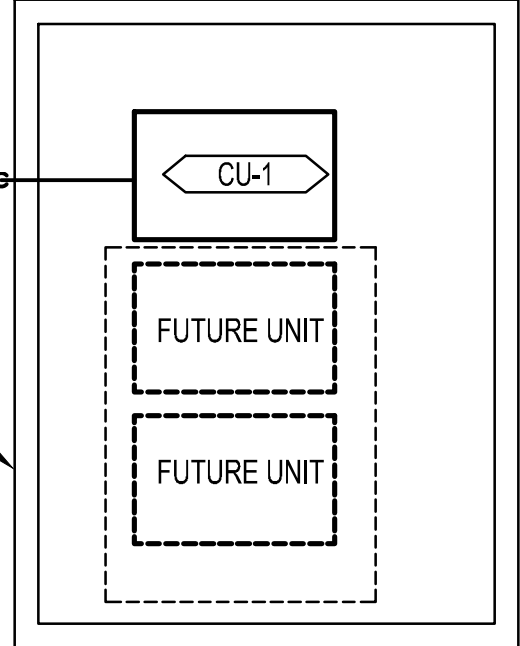
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- GENERAL NOTES:**
- DRAWINGS ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND CONDITIONS VISIBLE DURING A SITE VISIT. PRIOR TO SUBMITTING BID, CONTRACTOR TO THOROUGHLY INSPECT AND FIELD VERIFY ALL EXISTING CONDITIONS.
  - PROVIDE VOLUME DAMPER AT EACH DUCT BRANCH OUTLET/INLET. DAMPERS TO BE INSTALLED AS CLOSE TO MAIN DUCT AS POSSIBLE.
  - RUN DUCTS AND PIPING CONCEALED, UNLESS SPECIFIED OTHERWISE, AND CLEAR OF CEILING INSERTS. ALL DUCTWORK SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO WALL AND UNDERSIDE OF BEAMS AND JOISTS.
  - ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND DUCTS (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
  - VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. VERIFY AND PROVIDE DUCT TRANSITIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE FABRICATION.
  - REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF AIR DEVICES.
  - ALL DETAILS APPLY TO THIS SHEET WHETHER TAGGED OR NOT.

- NOTES:**
- 10X8 TOILET EXHAUST DUCT UP
  - TYPICAL FAN COIL UNIT MOUNTED IN CEILING PLENUM. SEE SHEET M501 FOR MOUNTING DETAILS.
  - 3/4" CONDENSATE PIPE CONNECT TO WASTE RISER VIA AIR-GAP FITTING. SEE PLUMBING DRAWINGS FOR CONNECTION TO WASTE RISER.
  - REFRIGERANT LINES TRENCHED 12" MINIMUM BELOW GRADE. SEE SHEET M501 FOR INSTALLATION DETAILS.
  - REFRIGERANT RISER UP. SEE ARCHITECTURAL PLANS FOR EXACT ELEVATION AND CORING LOCATION FOR AC SYSTEM CONDUIT PENETRATION. PROTECT ALL REFRIGERANT PIPE, ELECTRICAL CABLE, AND CONTROLS CABLE LOCATED OUTDOORS.
  - SEE ARCHITECTURAL SITE PLAN FOR EXACT LOCATION OF CONCRETE PAD AND MECHANICAL EQUIPMENT.
  - EXISTING OUTSIDE AIR LOUVER. 0.58 SF NET FREE AREA REQUIRED.



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

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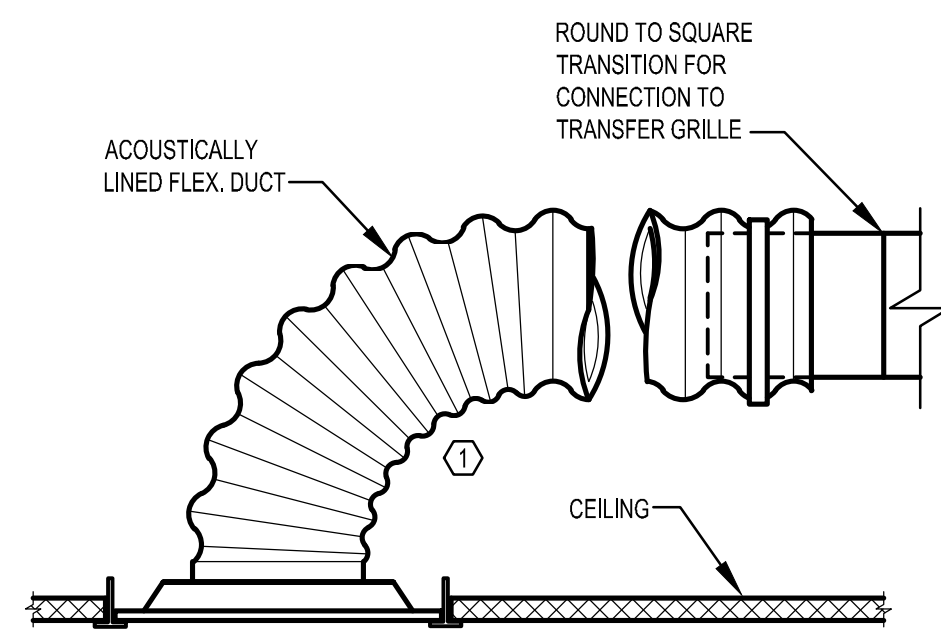
**FIRST FLOOR PLAN - MECHANICAL**

**M201**





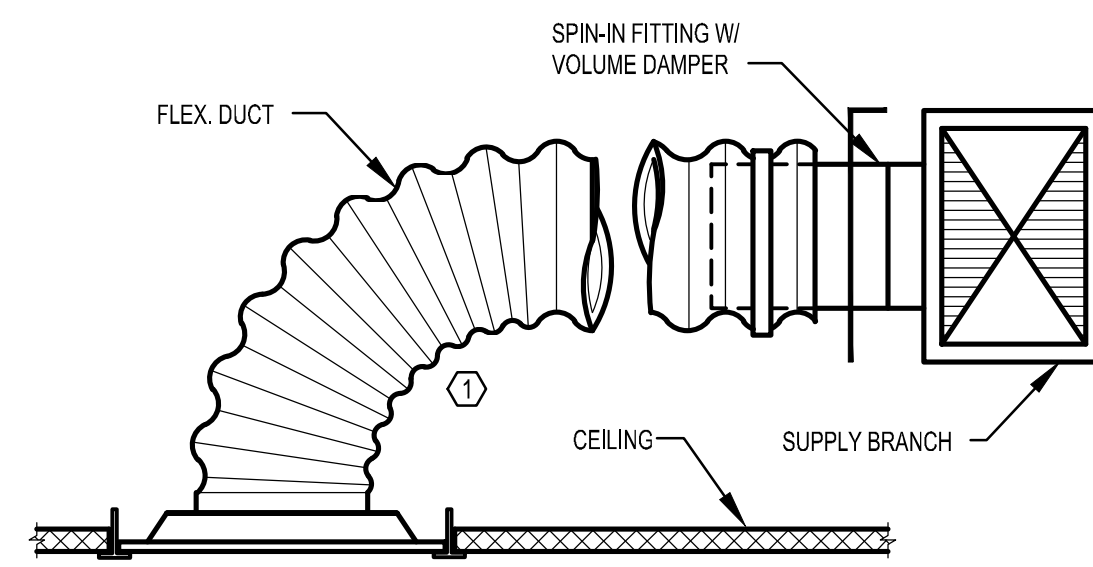




NOTES:  
 ① 1.5 DIA. MINIMUM FLEX DUCT RADIUS (4" MAX LENGTH).

1 TYPICAL ROUND RETURN AIR BOOT

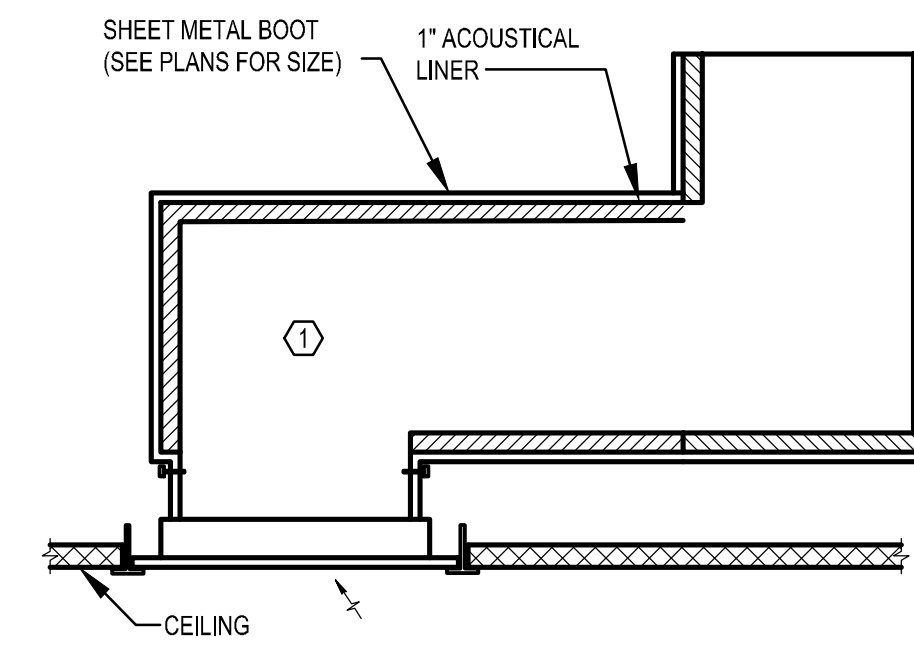
M501 SCALE: NONE



NOTES:  
 ① 1.5 DIA. MINIMUM FLEX DUCT RADIUS (4" MAX LENGTH), WHERE 1.5 DIA. TURN CAN NOT BE MET USE DETAIL 6/M5.01

2 TYPICAL ROUND NECK T-BAR DIFFUSER

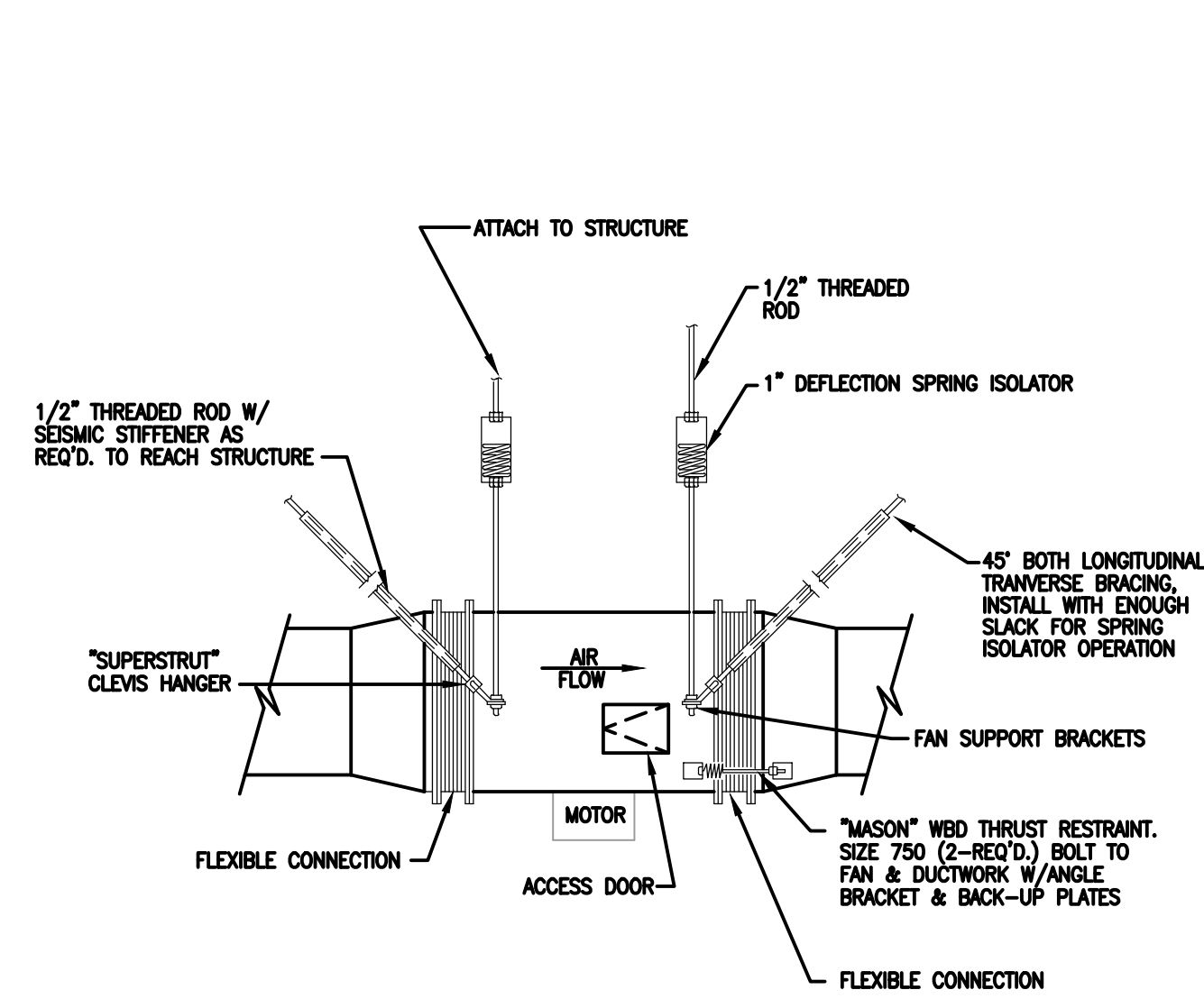
M501 SCALE: NONE



NOTES:  
 ① MINIMUM 290 DEGREE TURN PER RETURN BOOT. REFER TO ACOUSTICIAN REPORT FOR ADDITIONAL INFORMATION

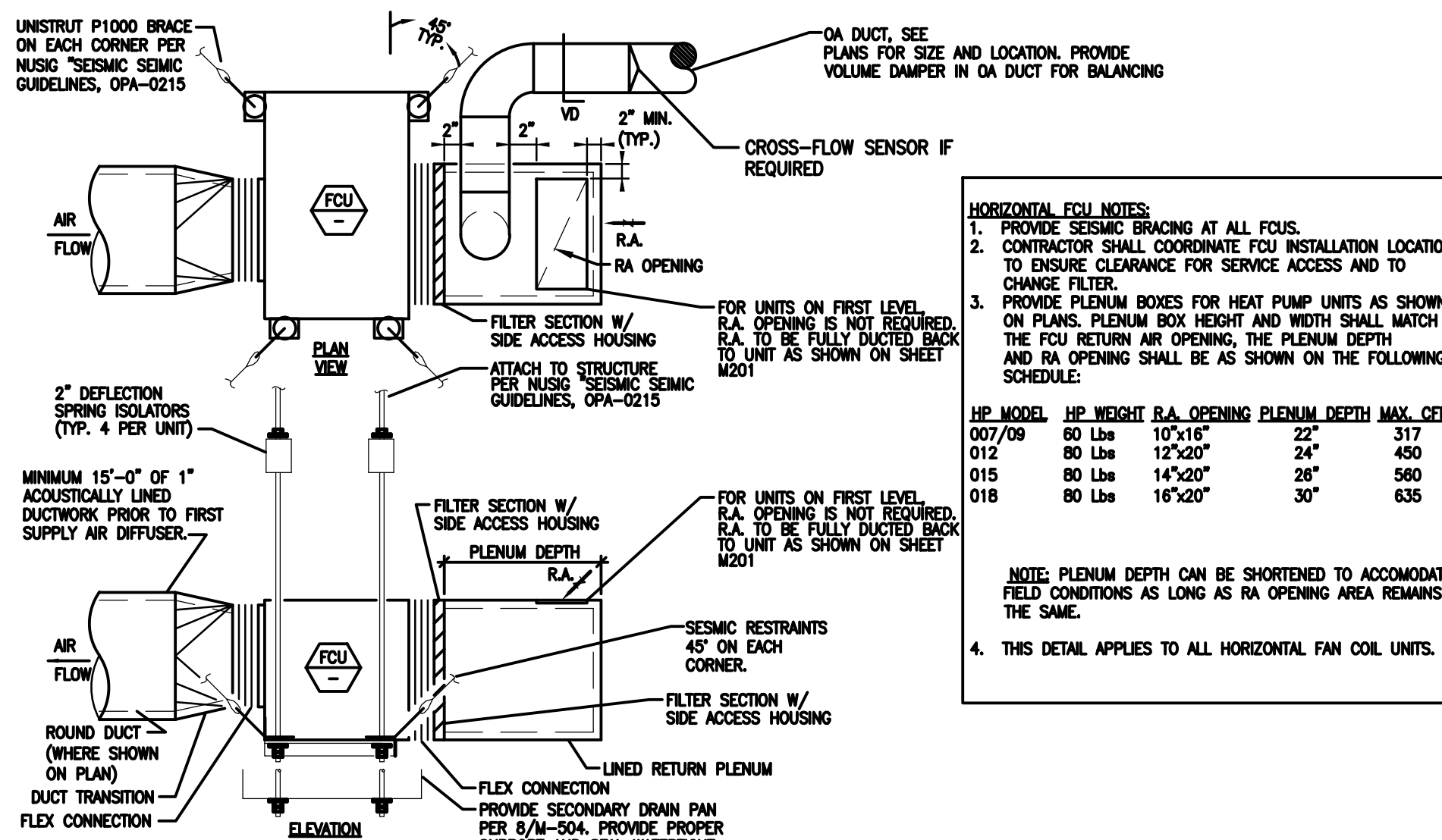
3 RETURN AIR BOOT

M501 SCALE: NONE



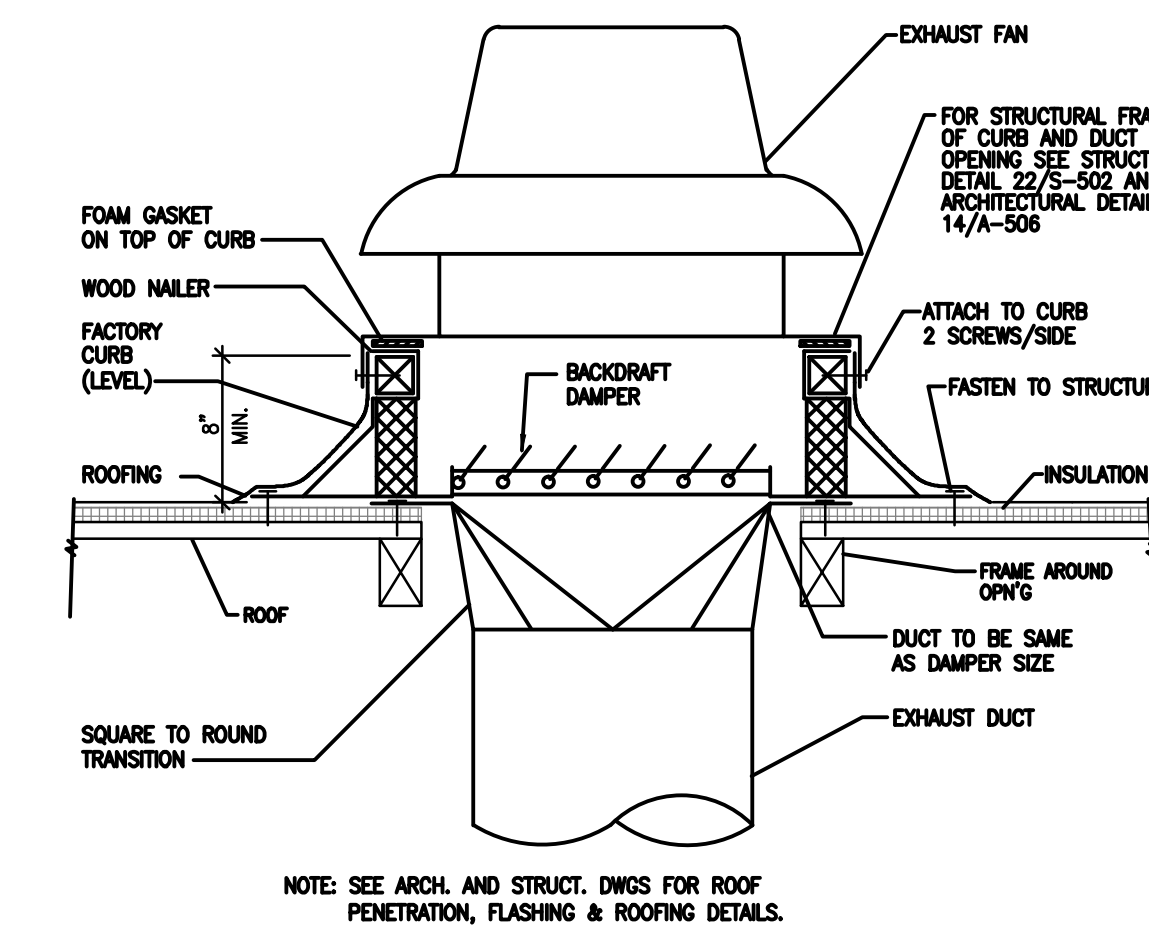
4 INLINE FAN MOUNTING DETAIL

M501 SCALE: NONE



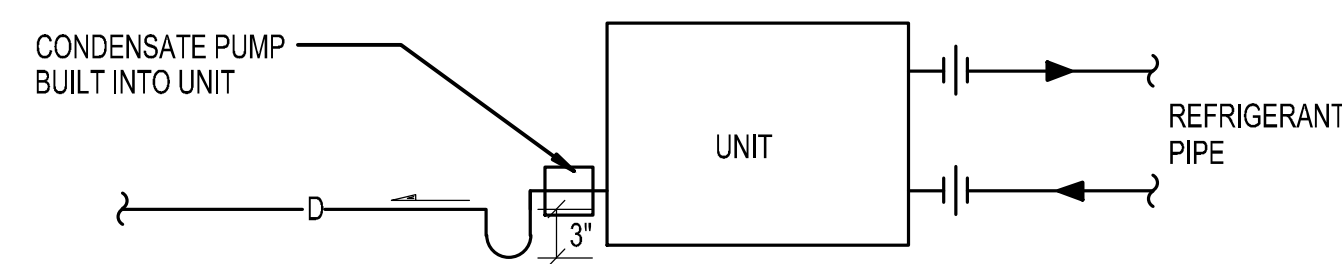
5 HORIZONTAL FAN COIL UNIT HANGING DETAIL

M501 SCALE: NONE



6 ROOF MOUNTED EXHAUST FAN

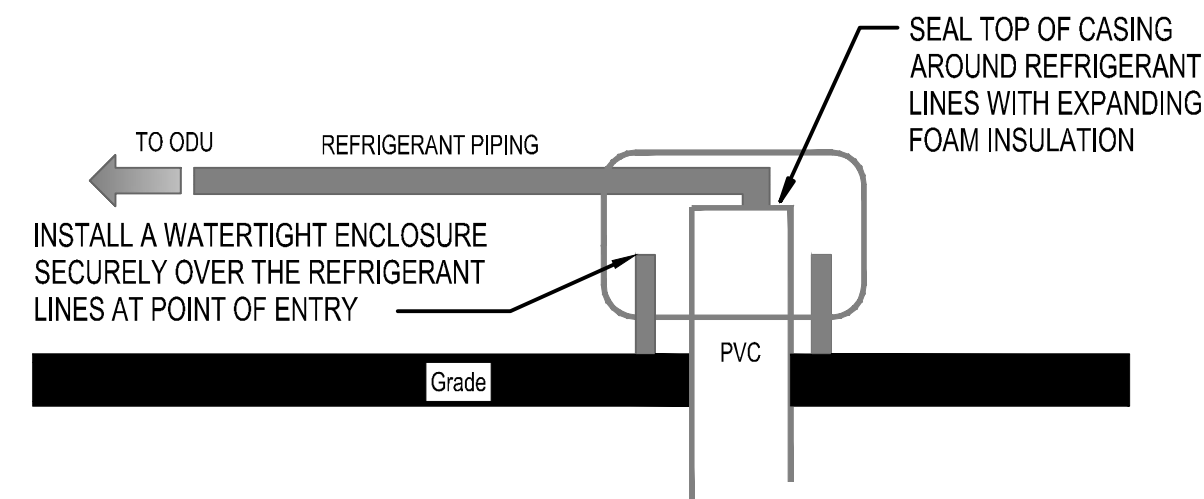
M501 SCALE: NONE



NOTES:  
 1. CONTRACTOR SHALL PROVIDE ALL REQUIRED SEISMIC CALCULATIONS STAMPED AND SIGNED BY STRUCTURAL ENGINEER.

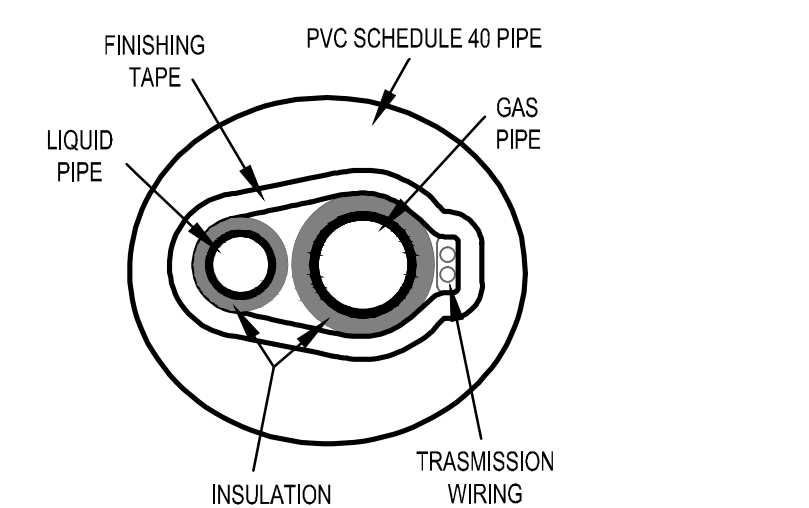
7 VRF FAN COIL UNIT PIPING

M501 SCALE: NONE



8 UNDERGROUND REFRIGERANT PIPING INSTALLATION

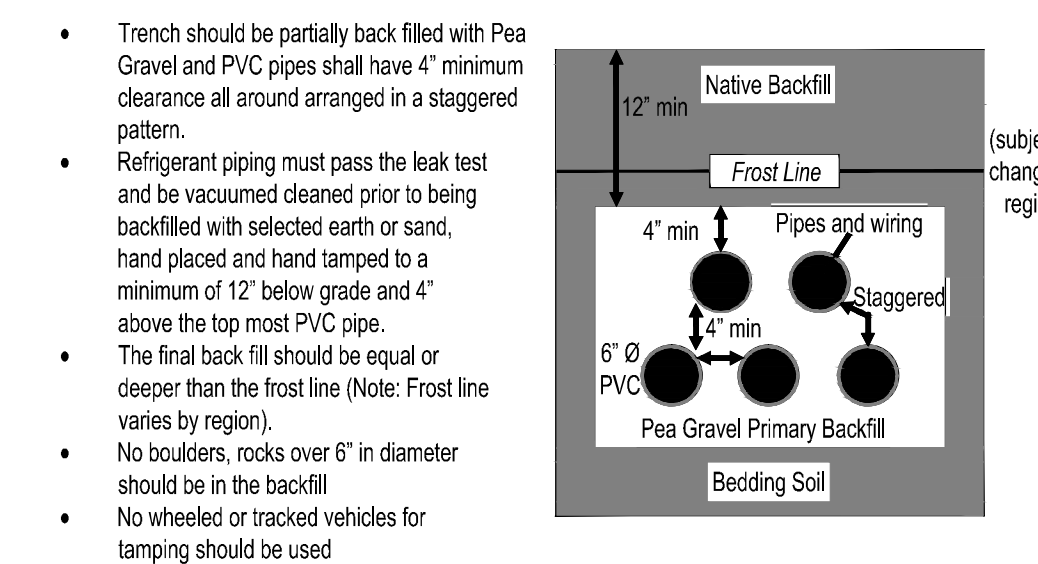
M501 SCALE: NONE



NOTES:  
 1. ONE CONTINUOUS PIECE PREFERRED; IF NOT BRAZED PIPE  
 2. CONNECTIONS SHOULD BE KEPT TO A MINIMUM  
 3. NO REFEET BRANCHES SHOULD BE INSTALLED UNDERGROUND.  
 4. PIPES AND TRANSMISSION WIRING (AS ILLUSTRATED):  
 - INSULATED SEPARATELY PER MANUFACTURER'S RECOMMENDATIONS  
 - ENCLOSED IN 6" OR 8" DIAMETER SCHEDULE 40 PVC PIPE

9 UNDERGROUND REFRIGERANT PIPING INSTALLATION

M501 SCALE: NONE



10 UNDERGROUND REFRIGERANT PIPING INSTALLATION

M501 SCALE: NONE

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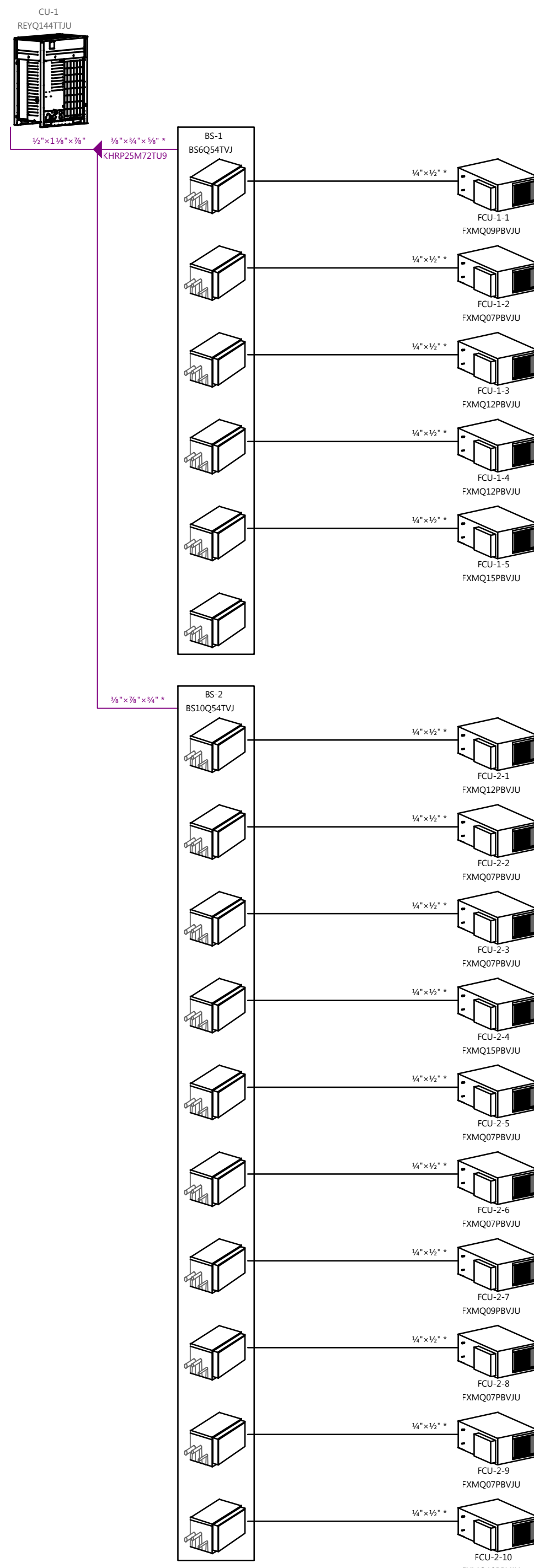
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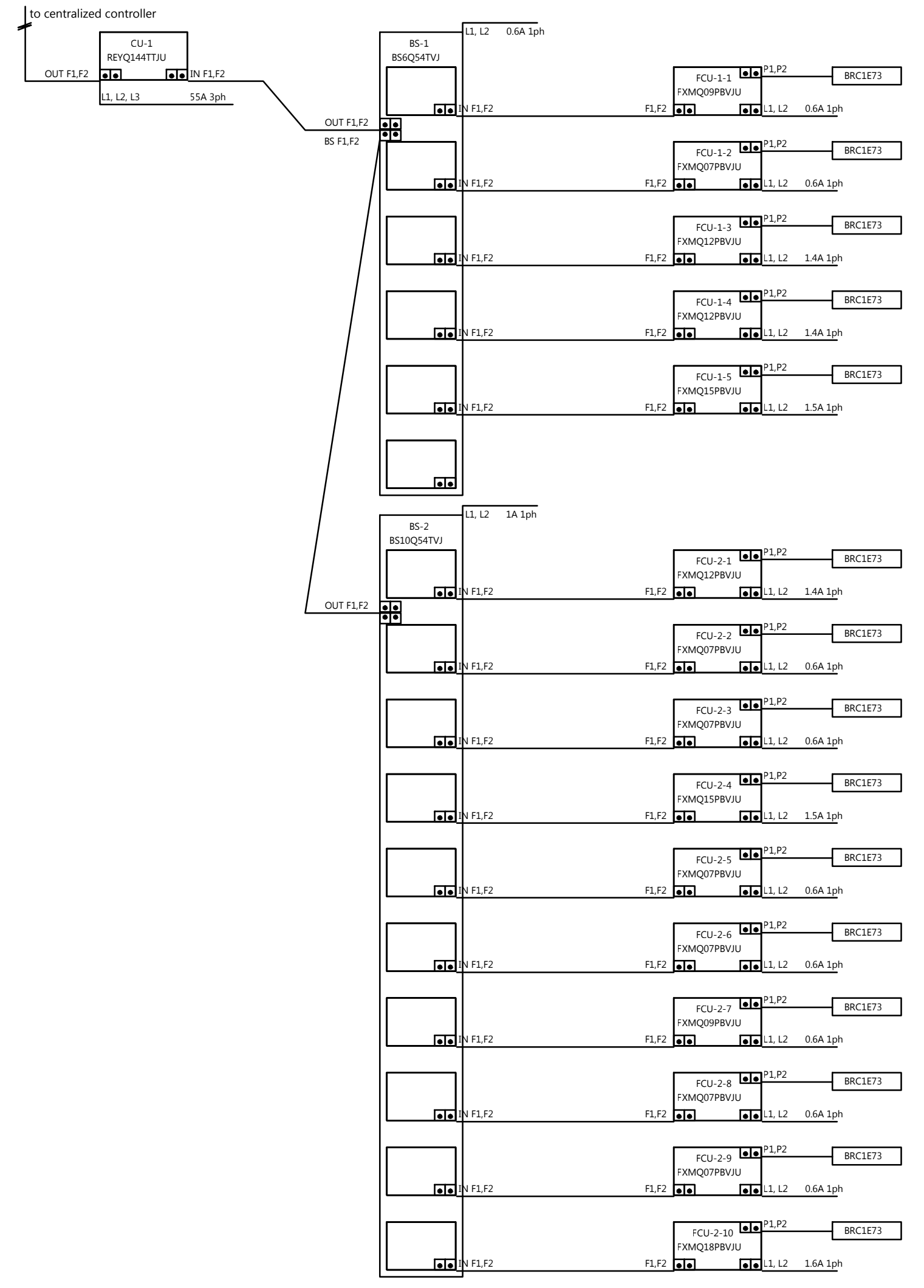
DETAILS - MECHANICAL

M501

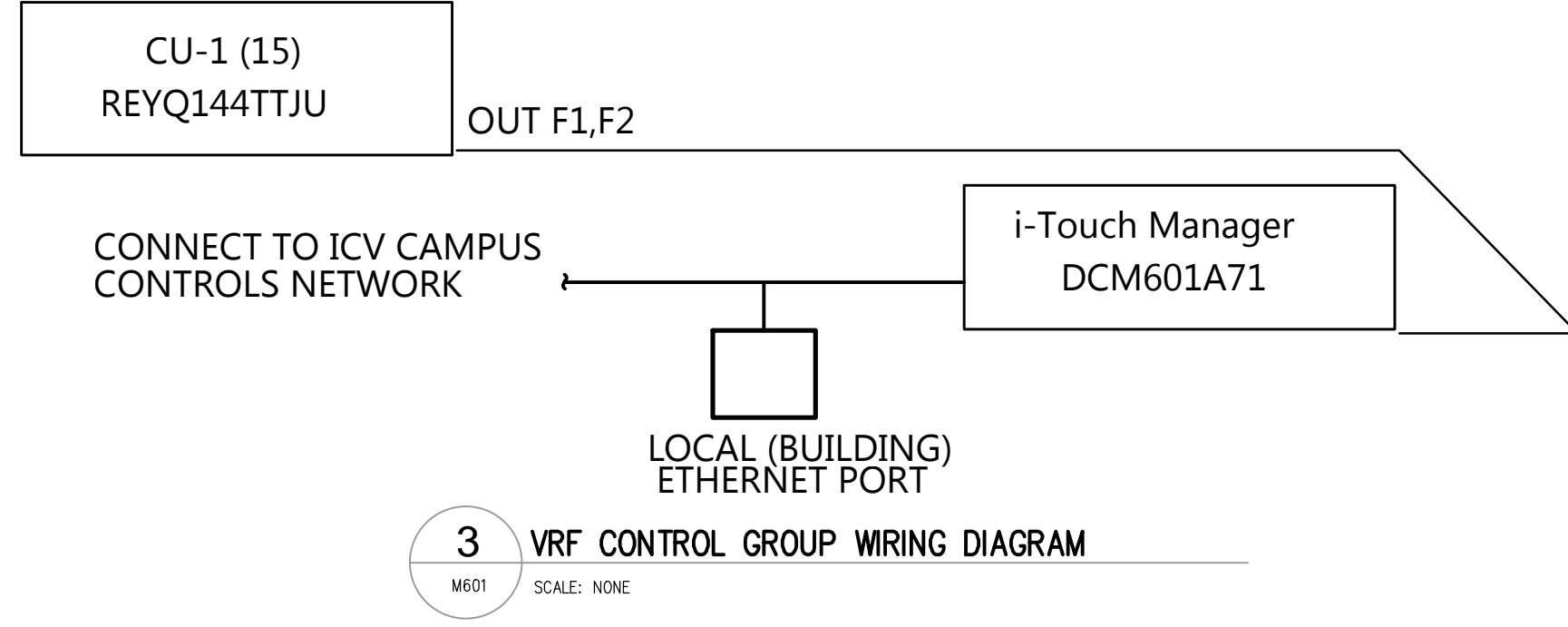




1 VRF PIPING DIAGRAM  
M601 SCALE: NONE



2 VRF WIRING DIAGRAM  
M601 SCALE: NONE



3 VRF CONTROL GROUP WIRING DIAGRAM  
M601 SCALE: NONE

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Date: 3/10/17 Time: 2:55pm File: P:\2017\17-1095 - College of Marin VC Bldg 11 - Renovation\01 Dwg\CAD\17-1095\_M601.dwg User: andrew.mcgonn

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FLOW DIAGRAMS  
MECHANICAL

M601



**SEQUENCE OF OPERATIONS:**

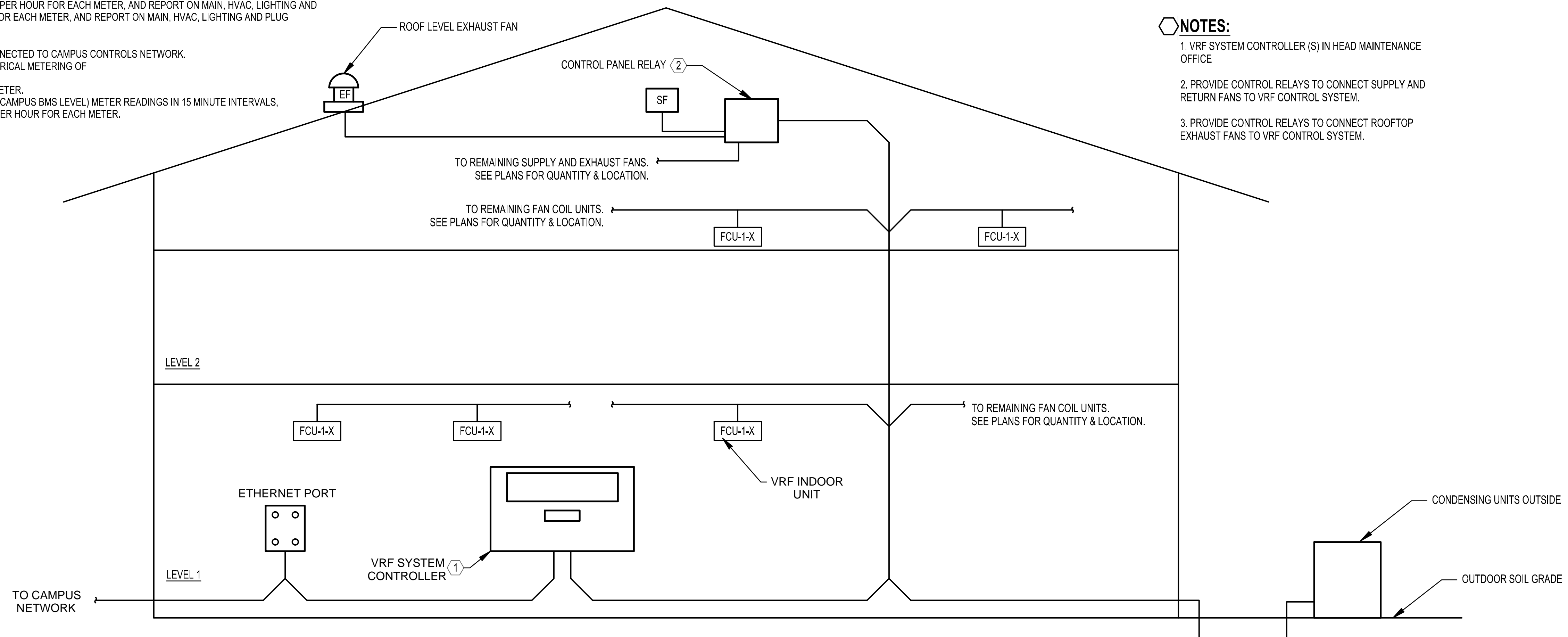
- A. CONTROL SYSTEM
  - 1. CENTRAL CONTROLS SYSTEM SHALL BE CONNECTED TO CAMPUS NETWORK AND TO THE INTERNET.
  - 2. CENTRAL CONTROLS SYSTEM SHALL BE REMOTELY AVAILABLE TO BUILDING MANAGEMENT VIA PASSWORD PROTECTED WEB INTERFACE.
  - 3. CENTRAL CONTROLS SYSTEM DATA AND VARIABLES SHALL BE ADJUSTABLE REMOTELY (INPUT AND OUTPUT POINTS SHALL BE ADJUSTABLE VIA WEB INTERFACE).
  - 4. ALL EQUIPMENT SETPOINT TEMPERATURES AND SCHEDULES SHALL BE ADJUSTABLE.
  - 5. THE PRIMARY CONTROL SYSTEM FOR THE VARIABLE REFRIGERANT HEAT PUMP SYSTEM AND BUILDING FANS SHALL BE THE INTEGRAL CONTROL SYSTEM OF THE VRF/VRV HEAT PUMP SYSTEM, DAIKIN INTELLIGENT TOUCH MANAGER (DCM01A51).
- B. FIRST, SECOND FLOORS AND ROOF
  - 1. FCU UNITS:
    - a. GENERAL:
      - 1) THE INDOOR FAN COIL UNIT SHALL OPERATE ON A TIME-BASED SCHEDULE SET BY THE CENTRAL CONTROL SYSTEM. SCHEDULE SHALL BE SET BY BUILDING MANAGEMENT.
      - 2) SET INDOOR OCCUPIED AND UNOCCUPIED SCHEDULES AS DIRECTED BY COLLEGE OF MARIN FACILITIES MANAGER.
      - 3) OCCUPIED SPACE TEMPERATURE SETPOINT SHALL BE SET TO 72 °F (ADJUSTABLE).
      - 4) UN-OCCUPIED SPACE TEMPERATURE SETPOINT SHALL BE ALLOWED TO DRIFT BETWEEN 66°F AND 78°F (+/-6°F ADJUSTABLE).
      - 5) USERS SHALL BE ABLE TO OVERRIDE SYSTEM CONTROLS VIA LOCAL THERMOSTAT.
    - b. ALARMS:
      - 1) WHEN VRF/VRV SYSTEM CONTROLS GENERATES AN ALARM IT SHALL BE BROADCAST TO BUILDING MANAGEMENT VIA EMAIL AND TXT MESSAGE.
  - 2. SUPPLY AIR FANS:
    - a. GENERAL:
      - 1) SUPPLY AIR FANS SHALL BE ON WHEN EXHAUST FANS ARE ON.
      - 2) SUPPLY AIR FANS SHALL CONNECTED TO CENTRAL CONTROLS SYSTEM VIA RELAYS. PROVIDE ALARM FUNCTION WHEN FANS ARE COMMANDED TO START AND FAN DOES NOT START VIA CT RELAY..
  - 3. EXHAUST AIR FANS (EF-RF-1,2):
    - a. GENERAL:
      - 1) EXHAUST AIR FANS SHALL BE ON AS SET BY CENTRAL CONTROLS SYSTEM SCHEDULING.
      - 2) CENTRAL CONTROLS SYSTEM SHALL HAVE THE ABILITY TO PROVIDE FOR OCCUPIED AND UNOCCUPIED SCHEDULING OF EXHAUST FANS.
    - b. ALARMS:
      - 1) IF FAN FAILS TO START WHEN COMMANDED SYSTEM CONTROLS SHALL GENERATE AN ALARM AND IT SHALL BE BROADCAST TO CAMPUS CONTROLS MANAGEMENT VIA EMAIL AND TXT MESSAGE TO FACILITIES MANAGEMENT TEAM.
      - 2) DAIKIN VRV ALARMS AVAILABLE THROUGH I-TOUCH CONTROLLER SHALL ALL BE BROADCAST TO CAMPUS CONTROLS MANAGEMENT SYSTEM VIA EMAIL AND TXT MESSAGE TO FACILITIES MANAGEMENT TEAM.
  - 4. METERING:
    - a. ELECTRICAL
      - 1) PROVIDE ELECTRICAL DDC SUBMETERS CONNECTED TO CAMPUS CONTROLS NETWORK.
      - 2) PROVIDE FOR THE SEGREGATED ELECTRICAL METERING OF:
        - HVAC LOADS
        - LIGHTING LOADS
        - PLUG LOADS
      - 3) PROVIDE ONE BUILDING ELECTRICAL MAIN METER, ONE METER FOR THE LIGHTING CONTROL PANEL, AND ANOTHER METER(S) FOR HVAC LOADS. PLUG LOADS SHALL BE CALCULATED AS FOLLOWS, PLUG LOADS = MAIN METER LOADS - HVAC LOADS - LIGHTING LOADS.
      - 4) TREND AND LOG (LOCALLY AND AT THE CAMPUS BMS LEVEL) METER READINGS IN 15 MINUTE INTERVALS, CALCULATE AND REPORT ENERGY USE PER HOUR FOR EACH METER, AND REPORT ON MAIN, HVAC, LIGHTING AND PLUG LOADS ENERGY USE PER HOUR FOR EACH METER, AND REPORT ON MAIN, HVAC, LIGHTING AND PLUG LOADS ENERGY USE FOR EVERY HOUR.
    - b. WATER
      - 1) PROVIDE WATER DDC SUBMETERS CONNECTED TO CAMPUS CONTROLS NETWORK.
      - 2) PROVIDE FOR THE SEGREGATED ELECTRICAL METERING OF
        - MAIN COLD WATER
      - 3) PROVIDE ONE BUILDING WATER MAIN METER.
      - 4) TREND AND LOG (LOCALLY AND AT THE CAMPUS BMS LEVEL) METER READINGS IN 15 MINUTE INTERVALS, CALCULATE AND REPORT WATER USE PER HOUR FOR EACH METER.

**GENERAL NOTES:**

- A. FOR GENERAL SYSTEM REQUIREMENTS SEE PROJECT SPECS AND GENERAL NOTES ON M001.
- B. ALL CONTROL WIRING SHALL BE FURNISHED AND INSTALLED BY THE CONTROLS CONTRACTOR IN ACCORDANCE WITH DIVISION 26 SPECIFICATIONS. SEE SPECIFICATIONS FOR LOCATIONS REQUIRING WIRING TO BE IN CONDUIT.
- C. ALL CONTROLS INFORMATION IS DIAGRAMMATIC (CORRECT COUNTS FOR ALL CONTROL DEVICES REQUIRED FOR A COMPLETE SYSTEM SHALL BE PROVIDED BY CONTRACTOR)
- D. PROVIDE NECESSARY INTERFACE TO CONNECT TO OTHER MANUFACTURER MICROPROCESSOR BASED EQUIPMENT. COORDINATE WITH MANUFACTURER'S AS REQUIRED TO MAKE THIS CONNECTION POSSIBLE.
- E. ALL DIGITAL INPUTS (DI) AND OUTPUTS (DO) SHALL HAVE RUNTIME ACCUMULATION FOR MAINTENANCE MONITORING.
- F. PROVIDE A MINIMUM OF 20% ADDITIONAL POINTS BEYOND THOSE SHOWN ON DRAWINGS.
- G. CONTROLS SYSTEM SHALL BE INTEGRATED WITH WWW (PASSWORD PROTECTED) NETWORK TO ALLOW USE OF THE CONTROL SYSTEM AT ANY WORKSTATION IN BUILDING AND ANY OTHER BUILDING CLIENT BUILDING. MULTI-LEVEL PASSWORDS SHALL BE INCORPORATED.
- H. BASIS OF DESIGN IS VRF EQUIPMENT MANUFACTURER CONTROLS.
- I. THE CONTROL SYSTEM SHALL CONTINUE TO OPERATE DURING A POWER OUTAGE (PROVIDE A MINIMUM OF 8 HOUR BATTERY TIME) AND SHALL BE ENTIRELY CONNECTED TO GENERATOR, ON BACKUP POWER.
- J. THE OUTSIDE REFERENCES FOR TEMPERATURE, HUMIDITY, SHALL BE CONNECTED TO A MINIMUM OF TWO SEPARATE POINTS OF OUTSIDE AIR AT TWO OPPOSITE SIDES OF THE BUILDING. SHIELD OUTSIDE AIR TEMPERATURE, AND HUMIDITY SENSORS FROM DIRECT SUNLIGHT.
- K. PROVIDE CITY AND DETERMINE LOCATION OF ALL 120V POWER CONNECTIONS REQUIRED FOR ALL PANELS, TRANSFORMERS, CONTROLLERS, ETC. TO ACCOMPLISH INSTALLATION AND A FULLY FUNCTIONING SYSTEM.

**NOTES:**

- 1. VRF SYSTEM CONTROLLER (S) IN HEAD MAINTENANCE OFFICE
- 2. PROVIDE CONTROL RELAYS TO CONNECT SUPPLY AND RETURN FANS TO VRF CONTROL SYSTEM.
- 3. PROVIDE CONTROL RELAYS TO CONNECT ROOFTOP EXHAUST FANS TO VRF CONTROL SYSTEM.



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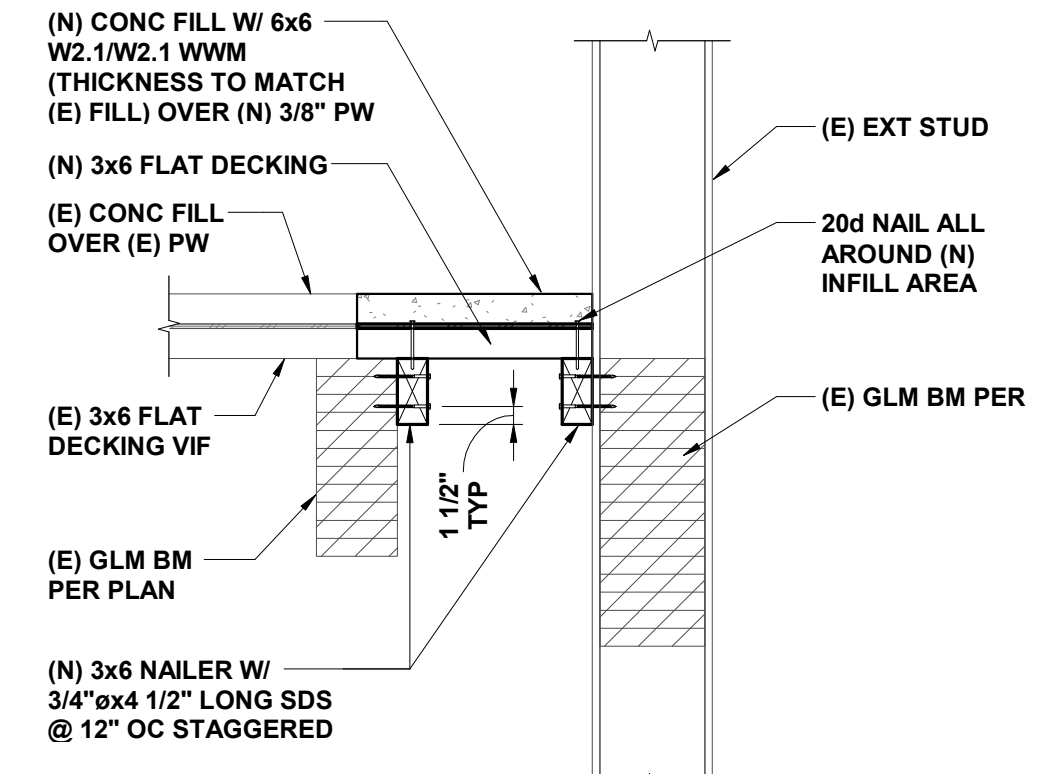
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CONTROL DIAGRAMS  
 MECHANICAL

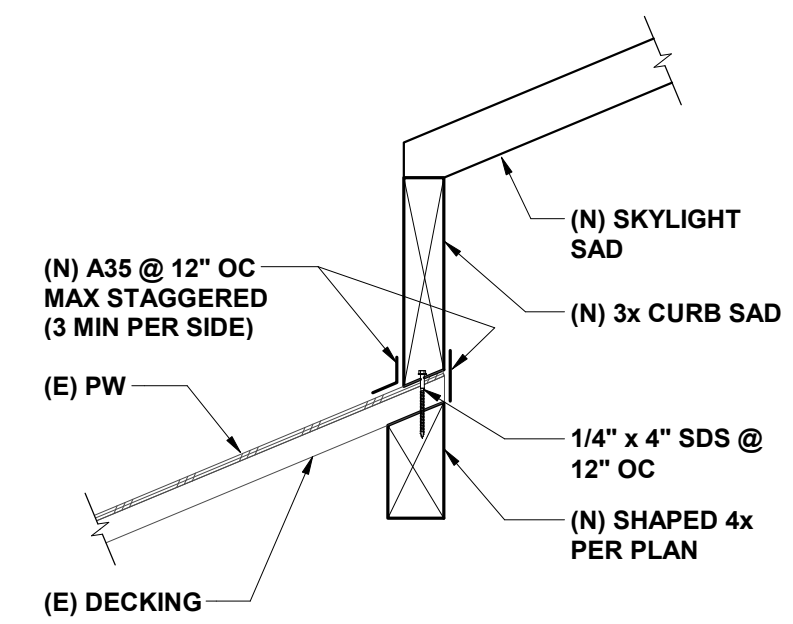
**M701**



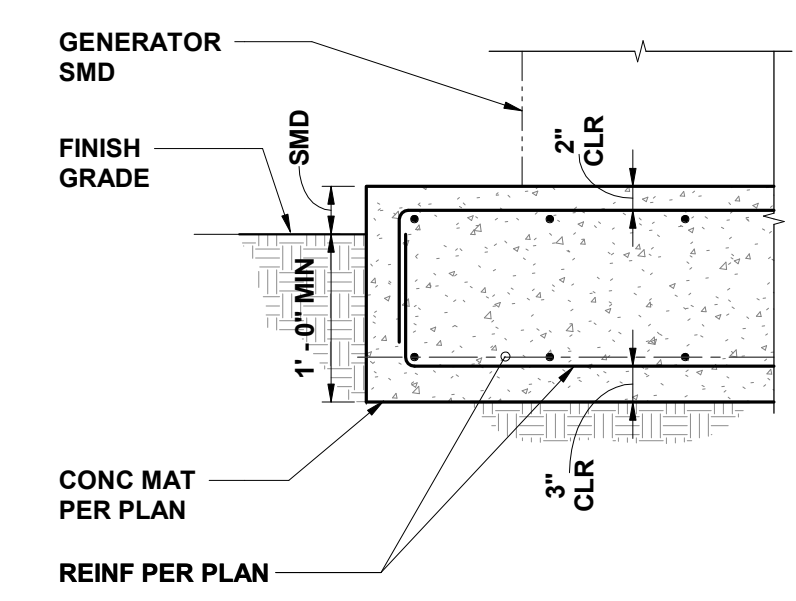
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file:



**1 FLOOR INFILL DETAIL**  
 3/4" = 1'-0"



**2 (N) SKYLIGHT DETAIL**  
 1" = 1'-0"



**3 GENERATOR PAD DETAIL**  
 3/4" = 1'-0"

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CONSTRUCTION DOCUMENTS  
 DETAILS



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### ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	KVA	KILOVOLT AMP
A	AMPERE (AMP)	KVAR	KILOVOLT AMPS REACTIVE
AL	ALUMINUM	LA	LIGHTNING ARRESTOR
ARCH	ARCHITECT / ARCHITECTURAL	LTG	LIGHTING
ATS	AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE
CB	CIRCUIT BREAKER	MATV	MASTER ANTENNA TELEVISION
C	CONDUIT	MCA	MINIMUM CIRCUIT AMPS
CCTV	CLOSED CIRCUIT TELEVISION	MCB	MAIN CIRCUIT BREAKER
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CLG	CEILING	MDP	MAIN DISTRIBUTION PANEL
CT	CURRENT TRANSFORMER	MECH	MECHANICAL
CU	COPPER	MH	METAL HALIDE
DN	DOWN	MLO	MAIN LUGS ONLY
EMERG	EMERGENCY	MTS	MANUAL TRANSFER SWITCH
EMT	ELECTRIC METALLIC TUBING	MW	MICROWAVE
EP	EXPLOSION PROOF	NIC	NOT IN CONTRACT
EPO	EMERGENCY POWER OFF	NL	NIGHT LIGHT CIRCUIT
EWC	ELECTRIC WATER COOLER	PA	PUBLIC ADDRESS
FA	FIRE ALARM	PE	PHOTO ELECTRIC CELL
FLA	FULL LOAD AMPS	PF	POWER FACTOR
FLUOR	FLUORESCENT	PNL	PANELBOARD
FCIC	FURNISHED BY CONTRACTOR INSTALLED BY CONTRACTOR	PVC	POLYVINYL CHLORIDE CONDUIT
FOIC	FURNISHED BY OWNER INSTALLED BY CONTRACTOR	PWR	POWER
FOIO	FURNISHED BY OWNER INSTALLED BY OWNER	REF	REFRIGERATOR
GFP	GROUND FAULT PROTECTION	SDP	SUB-DISTRIBUTION PANEL
GFI	GROUND FAULT INTERRUPTER	STR	STARTER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	SW	SWITCH
GRC	GALVANIZED RIGID CONDUIT	TD	TIME DELAY
GRD	GROUND	TP	TAMPERPROOF
HP	HORSEPOWER	TTB	TELEPHONE TERMINAL BOARD
HPS	HIGH PRESSURE SODIUM	TTC	TELEPHONE TERMINAL CABINET
HV	HIGH VOLTAGE	TV	TELEVISION
HZ	HERTZ	TYP	TYPICAL
IG	ISOLATED GROUND	UG	UNDERGROUND
INC	INCANDESCENT	UON	UNLESS OTHERWISE NOTED
JB	JUNCTION BOX	UPS	UNINTERRUPTABLE POWER SUPPLY
KW	KILOWATT	V	VOLTAGE
KWH	KILOWATT HOUR	VA	VOLT AMPERES
KV	KILOVOLT	VP	VAPOR PROOF
		W	WATTS
		WP	WEATHER PROOF
		XFMR	TRANSFORMER
		XFSW	TRANSFER SWITCH

### FIRE ALARM

	SPRINKLER SYSTEM SWITCH: FLOW, TAMPER
	MANUAL FIRE ALARM STATION
	DETECTOR: IONIZATION, HEAT, PHOTOELECTRIC
	DETECTOR: BEAM
	DUCT DETECTOR, TYPE AS NOTED
	FIRE ALARM: VISUAL
	FIRE ALARM: BELL; BELL W/VISUAL
	FIRE ALARM: CHIME; CHIME W/VISUAL
	FIRE ALARM: HORN; HORN W/VISUAL
	FIREMAN'S PHONE JACK
	SPEAKER: WALL, CEILING
	MAGNETIC DOOR HOLDER, CLOSER
	FIRE ALARM SPEAKER: WALL, CEILING

### EQUIPMENT

	ELECTRICAL EQUIPMENT
	PANELBOARD
	CABINET
	TRANSFORMER
	GROUND ROD, IN TEST WELL
	GROUND PAD
	EQUIPMENT WITH DERIVED GROUND
	VOLTMETER, AMMETER
	SELECTOR SWITCH: VOLTMETER, AMMETER
	METER: KILOWATT HOUR, POWER FACTOR
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	CABLE TRAY: CENTER SUPPORT, OUTER SUPPORTS

### LIGHTING

	CEILING LUMINAIRE: SURFACE, RECESSED
	CEILING LUMINAIRE: PENDANT MOUNTED
	CEILING LUMINAIRE: PENDANT LINEAR
	WALL LUMINAIRE: SURFACE, RECESSED
	WALL WASHER: SURFACE, RECESSED
	TRACK WITH HEADS LOCATED
	FLUORESCENT LUMINAIRE: SURFACE, RECESSED
	FLUORESCENT LUMINAIRE: WALL MOUNTED
	FLUORESCENT LUMINAIRE: BARE LAMP
	POLE LIGHT: LUMINAIRES AS SHOWN
	DESIGNATES LIGHT ON EMERGENCY CIRCUIT
	EXIT LIGHT: CEILING, WALL (ARROWS AS SHOWN)
	BOLLARD
	EMERGENCY BATTERY LIGHT: HEADS AS SHOWN
	WALL SWITCH: 1 POLE, 2 POLE
	WALL SWITCH: 3 WAY, 4 WAY
	WALL SWITCH: KEY LOCK, MOMENTARY
	WALL SWITCH: LOW VOLTAGE, PILOT
	WALL SWITCH: TIMER, MANUAL DIMMER
	DESIGNATES LUMINAIRE TYPE (SEE LUMINAIRE SCHEDULE)
	DESIGNATES NIGHT LIGHT CIRCUIT
	LUTRON MAESTRO SWITCH WITH INTEGRAL OCCUPANCY/VACANCY SENSOR; MODEL NO.: MS-OPS6M2
	LUTRON 3-BUTTON PICO KEYPAD WITH RAISE/LOWER; MODEL NO.: PJ2-3BRL-GWH-L01
	LUTRON WIRELESS CEILING-MOUNT OCCUPANCY/VACANCY SENSOR; MODEL NO.: LRF2-OCR2B-P-WH
	LUTRON WIRELESS CEILING-MOUNT DAYLIGHT SENSOR; MODEL NO.: LRF2-DCRB-WH
	LUTRON CENTRALIZED LIGHTING CONTROL HUB; MODEL NO.: HJS-2-FM

### POWER

	WALL RECEPTACLE: DUPLEX, QUADPLEX
	SPLIT CONTROLLED WALL RECEPTACLE: DUPLEX, QUADPLEX
	CONTROLLED WALL RECEPTACLE: DUPLEX, QUADPLEX
	WALL RECEPTACLE: ISOLATED GROUND
	CEILING RECEPTACLE: DUPLEX
	FIRE RATED FLOOR POKE-THRU, DUPLEX
	FIRE RATED FLOOR POKE-THRU, QUADPLEX
	CONNECTION TO EQUIPMENT PROVIDED BY OTHERS
	DENOTES RECEPTACLE ABOVE COUNTER
	SPECIAL PURPOSE OUTLET AS NOTED, EMERGENCY
	CLOCK HANGER RECEPTACLE
	FLUSH IN-FLOOR OUTLET: DUPLEX, COMBINATION, SIGNAL
	PEDESTAL OUTLET: POWER, SIGNAL, COMBINATION
	SURFACE OUTLET STRIP: DIMENSION AS SHOWN
	TELEPOWER POLE, POWER, COMBINATION
	JUNCTION BOX
	DISCONNECT SWITCH: FUSED, NON-FUSED
	MOTOR STARTER: MANUAL, MAGNETIC, COMBINATION
	MOTOR CONNECTION
	CONTACTOR, RELAY, SOLENOID
	PUSH BUTTON STATION
	WIRING CONCEALED IN CEILING OR WALL
	WIRING CONCEALED IN FLOOR OR UNDERGROUND
	INDICATES INSULATED GREEN GROUND WIRE
	HOME RUN DESTINATION SHOWN
	CONDUIT ELL: UP, DN.

### ELECTRICAL DRAWING LIST

E001	SYMBOLS, LEGENDS AND ABBREVIATIONS - ELECTRICAL
E002	LUMINAIRE SCHEDULE - ELECTRICAL
E003	M&E COORDINATION SCHEDULE - ELECTRICAL
E010	SITE PLAN - ELECTRICAL
E201	FIRST FLOOR PLAN - LIGHTING
E202	SECOND FLOOR PLAN - LIGHTING
E203	SECOND FLOOR TOP OF BEAM PLAN - LIGHTING
E301	FIRST FLOOR PLAN - POWER
E302	SECOND FLOOR PLAN - POWER
E601	DETAILS - ELECTRICAL
E701	SINGLE-LINE DIAGRAM - ELECTRICAL
E801	PANEL SCHEDULES - ELECTRICAL
E802	PANEL SCHEDULES - ELECTRICAL

### ONE-LINE

	CIRCUIT BREAKER
	SWITCH, FUSED SWITCH
	BUSS
	AUTOMATIC SWITCH
	METER
	PANEL
	FEEDER CALLOUT
	FAULT CURRENT CALLOUT
	GENERATOR

### DESIGNATION SYMBOLS

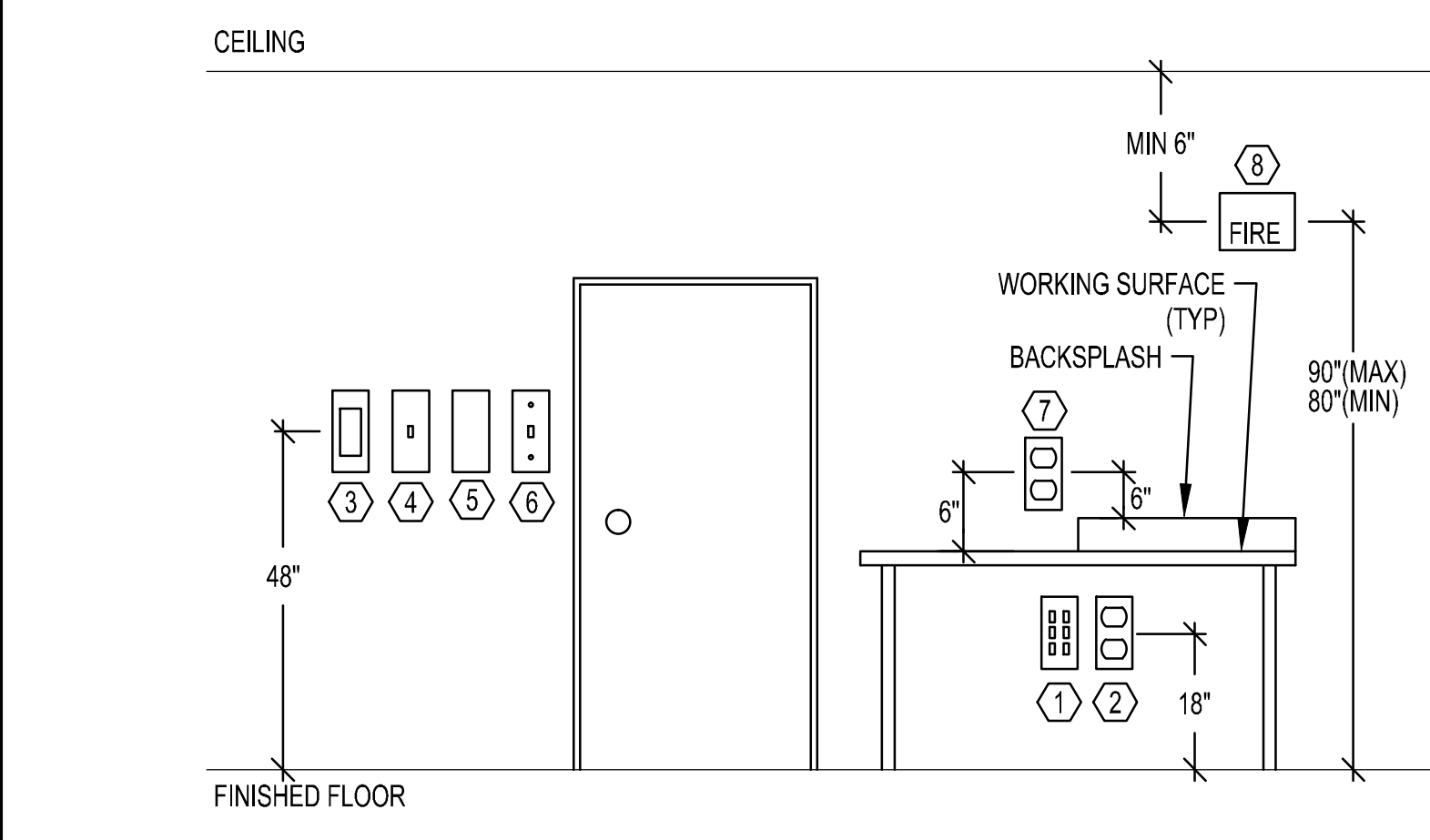
	123	EQUIPMENT DESIGNATOR SEE SCHEDULE.
	(E)	EXISTING
	(F)	FUTURE
	(N)	NEW
	(R)	RELOCATED

— BOLD LINWEIGHT DENOTES NEW EQUIPMENT, LIGHT FIXTURES, AND DEVICES.  
 — LIGHT LINWEIGHT DENOTES EXISTING EQUIPMENT, LIGHT FIXTURES, AND DEVICES.  
 - - - DASHED LINWEIGHT DENOTES DEMOLISHED EQUIPMENT, LIGHT FIXTURES, AND DEVICES.

### NOTE

THIS IS A STANDARD LEGEND SHEET, THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

### DEVICE MOUNTING HEIGHTS



- GENERAL NOTES:**
- LOCATE ALL FIRE ALARM DEVICES PER CODE.
  - LOCATE ALL ACCESSIBLE SWITCHES PER ADA GUIDELINES.
  - FIELD COORDINATE ALL ABOVE COUNTER DEVICES WITH MILLWORK CONTRACTOR.
- NOTES:**
- |  |                         |  |  |
|--|-------------------------|--|--|
|  | TELECOM OUTLET          |  | WALL PHONE   |
|  | RECEPTACLE              |  | ABOVE COUNTER DEVICE MAINTAIN A CONSISTANT HEIGHT THROUGHOUT SPACE |
|  | FIRE ALARM PULL STATION |  | FIRE ALARM STROBE  |
|  | LIGHT SWITCH            |  |  |
|  | CARD READER             |  |  |

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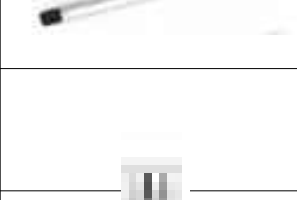
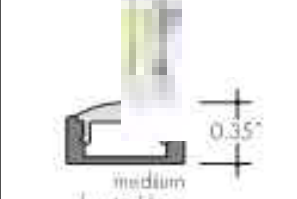

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 date: 16/02/2017

**SYMBOLS, LEGENDS AND ABBREVIATIONS ELECTRICAL**



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LUMINAIRE SCHEDULE											
FIXTURE TYPE	IMAGE	PRODUCT DESCRIPTION	BASIS OF DESIGN MANUFACTURER	SIZE	INPUT WATTS	LAMP SOURCE (Type, CCT, Delivered Lumens)	DRIVER / BALLAST (Integral/Remote) (Electronic/Magn.) (Dimming Type)	INPUT VOLTAGE	FINISH	MOUNTING	NOTES
F1		2x4 RECESSED LED VOLUMETRIC IN OFFICES ON LEVEL 1	FINELITE HPR-LED-ANR-2x4-DCO-S-935-277V-SC-XX	2 Ft W x 4 Ft L x 4" D	27 W	LED 3500K 3680 LM >90 CRI	INTEGRAL ELECTRONIC 0-10V DIM TO 5%	277	AS PER ARCHITECT	RECESSED ACT CLG.	
F2		8-FT DIRECT / INDIRECT LINEAR PENDANT ON WOOD BEAMS	FINELITE HP-2-WM-ID-8-B-B-9-35-F F-277V-MB-DC	4" H x 3" D x LENGTH AS SHOWN	12W / LF	LED 3500K 1360 LM / LF >90CRI	INTEGRAL ELECTRONIC 0-10V DIM TO 5%	277	AS PER ARCHITECT	MOUNTING BRACKET	DUAL CIRCUIT RUNS OF (6) 8 FT PER BEAM (24T PER OVERALL RUN) OUTER 8" INDIRECT PORTION ON BOTH SIDES OF BEAMS TO BE ON 'C' LEG.
F3		4" SQ. RECESSED LED DOWNLIGHT IN BATHROOMS	CALCULITE C4X4L10-DL-35K-CL-XX-XX C4X4L10-N-2-LD-XX	4.5" SQ. x 4.5" H	20 W	LED 3500K 880 LM >90 CRI	INTEGRAL ELECTRONIC 0-10V DIM TO 10%	277	AS PER ARCHITECT	RECESSED GYP. CLG.	CONFIRM QUANTITY OF F3s ON MICROINVERTER BEFORE ORDERING
F4		4-FT DIRECT / INDIRECT LINEAR PENDANT IN OFFICES	FINELITE S16 LED ID-DCO-4-3E-B-B-935-OPEN-277V-SC-FA-FE-C4	8" W x 2" D x 4 FT L	12 W / LF	LED 3500K 1260 LM / Ft >90 CRI	INTEGRAL ELECTRONIC 0-10V DIM TO 5%	277	AS PER ARCHITECT	AIRCRAFT CABLE PENDANT IN GYP. CLG.	
F5		4" SQ. LOW PROFILE LED DOWNLIGHT IN STORAGE / BOH	PHILIPS SLIMLINE S4S-8-35K-7-XX-Z10U	4" SQ. x	10W	LED 3500K 650 LM	INTEGRAL ELECTRONIC 0-10V	277	AS PER ARCHITECT	SURFACE MOUNT GYP CEILING	
F6		RECESSED LED STEPLIGHT IN CIRCULATION	WAC LIGHTING WL-LED200F-C-WT	3"W x 5"H x 1.5" D	4W	LED 3000K 120 LM	INTEGRAL ELECTRONIC 0-10V	277	WHITE	WALL RECESSED	MOUNT MIN. 12" ABOVE TREAD SEE ARCH DWGS FOR SPACING.
F7		SUSPENDED LED DRUM PENDANT IN STAIRWELL	LUMETTA P2034	14" D x 34" DIA. X SUSP. HT.	57W	LED 3500K 6300 LM >90CRI	INTEGRAL ELECTRONIC 0-10V DIM TO 5%	277	SHADE AS PER ARCHITECT	SLOPED CANOPY / CABLE	PROVIDE 6" DIA. SWIVEL STEM CANOPY
F8		WALL MOUNT LINEAR INDIRECT LED IN KITCHENETTE	FINELITE HP2 WM-I	2.25" W x 4" D x 4'-0" L	18.5 W	LED 3500K 880 LM >90 CRI	INTEGRAL ELECTRONIC 0-10V	277	AS PER ARCHITECT	WALL MOUNT	
F9		UNDERCABINET LED STRIP IN KITCHENETTE	CSL LIGHTING ECO-LIGHTBAR LED	1FT & 2FT VERSIONS	6W / LF	LED 3000K 500 LM / LF > 90 CRI	REMOTE ELECTRONIC 0-10V	24DC / 277AC	SATIN ALUMINUM	SURFACE MOUNT CASEWORK	COORDINATE LOCATION OF REMOTE POWER SUPPLY AND LINK TOGETHER
F10		NOT USED									
F11		LED TAPE IN CHANNEL AT DESK BEHIND ACRYLIC PANEL	LUMINII TAPE: LL18-35L-XX-XX-XX CHANNEL: SL7-XX-M-SA SUPPLY: PSV-XX-24V-U2DIM-D	LEGNTN AS SHOWN	1.5 W/LF	LED 3500K 125 LM/LF >90 CRI	INTEGRAL ELECTRONIC 0-10V DIM TO 10%	24DC / 277AC	SILVER ANODIZED	UNDER DESKTOP BEHIND ACRYLIC PANEL	COORDINATE LOCATION OF REMOTE POWER SUPPLY WITH ARCHITECT PRIOR TO INSTALLATION.
S1		LED WALL PACK AT MIDDLE LANDING OF EXTERIOR STAIRS	LITHONIA WST-LED VF	8.5" H x 10" D x 17" L	12 W	LED 3500K 1500 LM	INTEGRAL ELECTRONIC 0-10V	277	AS PER ARCHITECT	WALL SURFACE	
S2	NO PHOTO	EXISTING SURFACE MOUNTED ENTRY LIGHT AT EXTERIOR SOFFITS	N/A	N/A	18W	VERIFY IN FIELD	VERIFY IN FIELD	277	EXISTING	EXTERIOR SOFFIT	CONTRACTOR TO CONFIRM EXISTING LIGHTING FOR EM EGRESS - REFURBISH MAY BE DESIRED BY ARCHITECT
S3	NO PHOTO	EXISTING WALL PACK AT TOP LANDINGS OF EXTERIOR STAIR	N/A	N/A	18W	VERIFY IN FIELD	VERIFY IN FIELD	277	EXISTING	WALL SURFACE	CONTRACTOR TO CONFIRM EXISTING LIGHTING FOR EM EGRESS - REFURBISH MAY BE DESIRED BY ARCHITECT
X		EXIT SIGN AS PER LIFE SAFETY DIAGRAM	LITHONIA EDG-EDGR	11" H x 5.5" D x 13.5" L	5W	LED 3500K	INTEGRAL ELECTRONIC 0-10V	277	AS PER ARCHITECT	RECESSED OR SURFACE WALL / CEILING	CONTRACTOR TO COORDINATE NUMBER OF FACES, MOUNTING, AND ARROW DIRECTIONS PRIOR TO INSTALLATION

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novato, california  
project number: 17-1095

scale: NONE  
date: 16/02/2017

LUMINAIRE SCHEDULE - ELECTRICAL

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MECHANICAL EQUIPMENT CONNECTION SCHEDULE																				
EQUIPMENT DESCRIPTIONS			ELECTRICAL CHARACTERISTICS					CONNECTION CHARACTERISTICS							FEEDER CHARACTERISTICS			PANEL INFORMATION	NOTES	
TAG	DESCRIPTION	LOCATION	KW	HP	FLA	MCA	MOCP	VOLTS/ PHASE	VFD	1-POINT CONNECT	STARTER DIVISION	DISCONNECT DIVISION	DISCONNECT SIZE	DISCONNECT TYPE	EMERGENCY POWER	CONDUIT DIA (INCH)	PHASE CONDUCTORS	GROUND CONDUCTOR	PANEL NAME	
FCU-1-1	FAN COIL UNIT	L1				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-1-2	FAN COIL UNIT	L1				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-1-3	FAN COIL UNIT	L1				1.40		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-1-4	FAN COIL UNIT	L1				1.40		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-1-5	FAN COIL UNIT	L1				1.50		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-1	FAN COIL UNIT	L2				1.40		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-2	FAN COIL UNIT	L2				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-3	FAN COIL UNIT	L2				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-4	FAN COIL UNIT	L2				1.50		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-5	FAN COIL UNIT	L2				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-6	FAN COIL UNIT	L2				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-7	FAN COIL UNIT	L2				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-8	FAN COIL UNIT	L2				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-9	FAN COIL UNIT	L2				0.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
FCU-2-10	FAN COIL UNIT	L2				1.60		208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	HAS CONDENSATE PUMP
EF-RF-1	EXHAUST FAN	ROOF		0.10	2.6			115/1	NO	YES	23	26	30	NEMA 3R	YES	1/2	(2) #12	(1) #12	AL1	
EF-RF-2	EXHAUST FAN	ROOF		0.10	2.6			115/1	NO	YES	23	26	30	NEMA 3R	YES	1/2	(2) #12	(1) #12	AL1	
SF-1-1	OUTSIDE AIR FAN	L1		0.10				115/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	
SF-2-1	OUTSIDE AIR FAN	L2		0.10				115/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	
SF-2-2	OUTSIDE AIR FAN	L2		0.10				115/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	
CU-1	OUTDOOR CONDENSING UNIT	OUTDOOR EQUIPMENT PAD				55.0		208/3	NO	YES	23	26	100	NEMA 3R	YES	1	(3) #4	(1) #10	AL1	
BS-1	BRANCH SELECTOR	L1				0.6	15	208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	
BS-2	BRANCH SELECTOR	L2				1.0	15	208/1	NO	YES	23	26	TOGGLE	NEMA 1	YES	1/2	(2) #12	(1) #12	AL1	
EW-1-1	ELECTRIC WATER HEATER	L1 RESTROOM MENS	5.54					277/1	N/A	YES	23	26	30	NEMA 1	YES	1/2	(2) #10	(1) #10	AL	CONFIRM BREAKER SIZE WITH MANUFACTURER
EW-1-2	ELECTRIC WATER HEATER	L1 RESTROOM WOMENS	5.54					277/1	N/A	YES	23	26	30	NEMA 1	YES	1/2	(2) #10	(1) #10	AL	CONFIRM BREAKER SIZE WITH MANUFACTURER
EW-2-1	ELECTRIC WATER HEATER	L2 KITCHENETTE	16.05					277/1	N/A	YES	23	26	90	NEMA 1	YES	1 1/4	(2) #2	(1) #8	AL	CONFIRM BREAKER SIZE WITH MANUFACTURER
EW-2-2	ELECTRIC WATER HEATER	L2 RESTROOM	5.54					277/1	N/A	YES	23	26	30	NEMA 1	YES	1/2	(2) #10	(1) #10	AL	CONFIRM BREAKER SIZE WITH MANUFACTURER
EW-2-3	ELECTRIC WATER HEATER	L2 RESTROOM	5.54					277/1	N/A	YES	23	26	30	NEMA 1	YES	1/2	(2) #10	(1) #10	AL	CONFIRM BREAKER SIZE WITH MANUFACTURER

GENERAL NOTES:

- REFER TO ONE-LINE DIAGRAM OR PANEL SCHEDULES FOR OVERCURRENT PROTECTION CHARACTERISTICS AND CIRCUIT NUMBERS.
- COORDINATE ALL EQUIPMENT CONNECTION REQUIREMENTS WITH INSTALLING CONTRACTOR PRIOR TO THE INSTALLATION OF ANY ELECTRICAL WORK.
- VFD'S ARE FURNISHED BY DIVISION 23. INSTALL VFD AND PROVIDE PROVIDE LINE AND LOAD SIDE FEEDERS IN ELECTRICAL WORK.
- COMBINATION STARTER/DISCONNECTS AND DISCONNECT SWITCHES SHALL BE LOCATED WITHIN SIGHT OF AND ADJACENT TO EQUIPMENT SERVED. COORDINATE INSTALLATION WITH EQUIPMENT INSTALLER.
- NOT ALL EQUIPMENT IDENTIFIED HERE IS SHOWN ON FLOOR PLANS. REFER TO DRAWINGS IN OTHER DISCIPLINES FOR EQUIPMENT LOCATIONS.
- SEE MECHANICAL AND PLUMBING DRAWINGS FOR EXACT EQUIPMENT LOCATIONS.

NOTES:

- PROVIDE STANDBY POWER SOURCE.
- FURTHER COORDINATION IS REQUIRED WITH DELEGATED FIRE PROTECTION DESIGN.

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renovation

novato, california  
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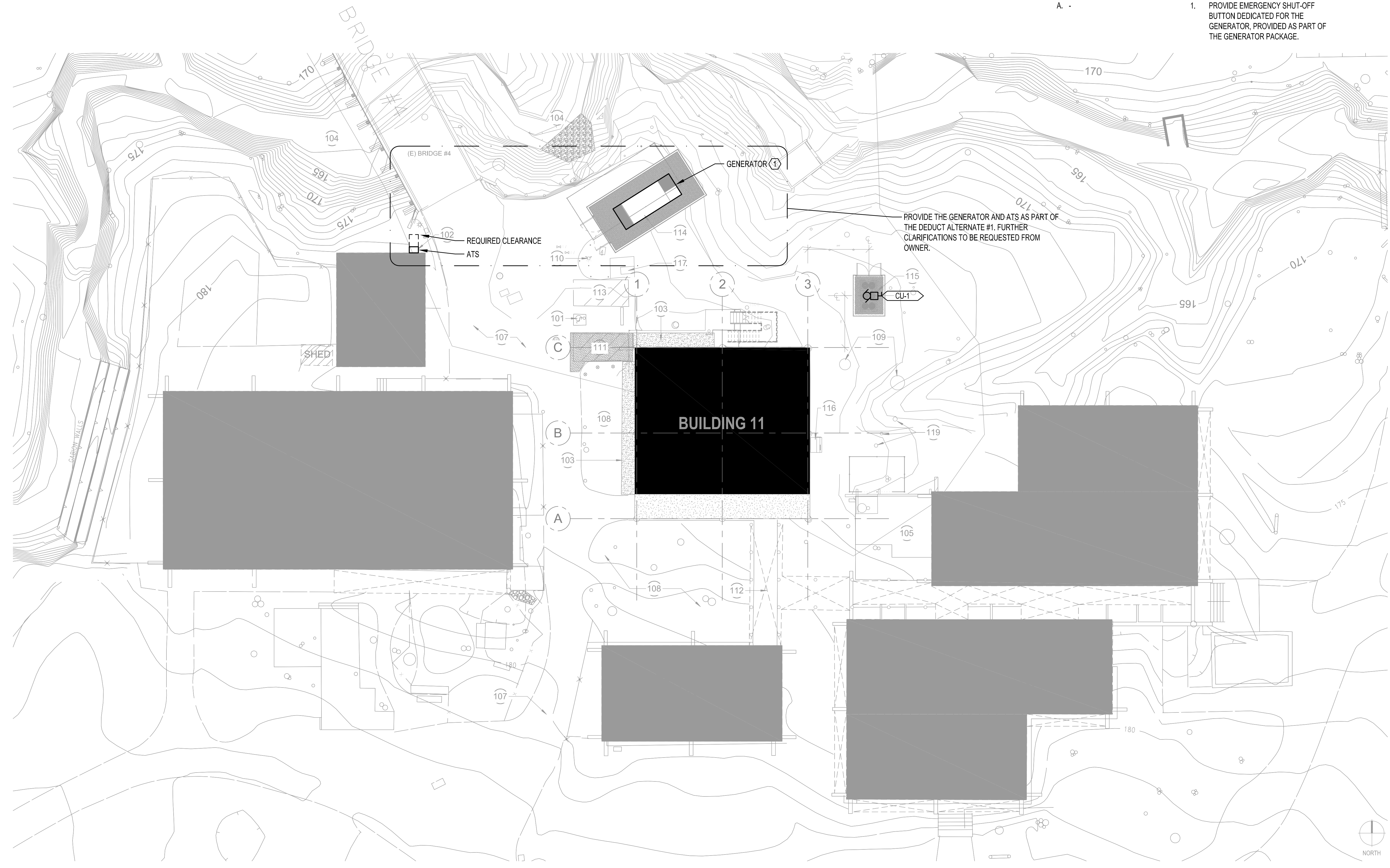
M&E COORDINATION  
SCHEDULE - ELECTRICAL



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GENERAL NOTES:  
A. -

NOTES:  
1. PROVIDE EMERGENCY SHUT-OFF BUTTON DEDICATED FOR THE GENERATOR, PROVIDED AS PART OF THE GENERATOR PACKAGE.



PROVIDE THE GENERATOR AND ATS AS PART OF THE DEDUCT ALTERNATE #1. FURTHER CLARIFICATIONS TO BE REQUESTED FROM OWNER.

1 SITE PLAN - ELECTRICAL  
E010 SCALE: 1/16" = 1'-0"

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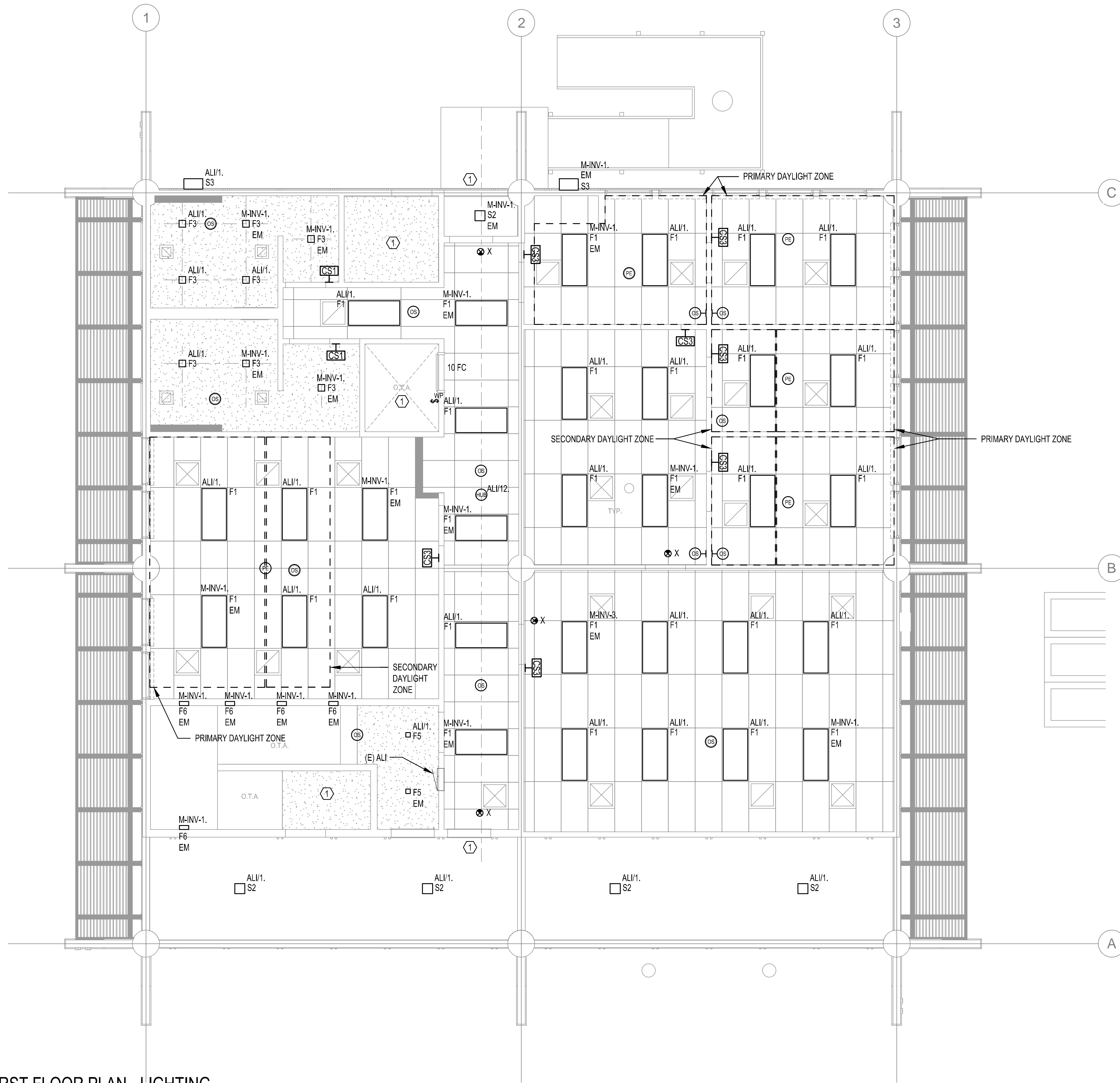
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SITE PLAN - ELECTRICAL

E010

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**GENERAL NOTES:**

- A. ALL LUMINAIRES AND DEVICES ARE NEW, UON.
- B. ALL COMPONENTS SHOWN ARE DIAGRAMMATIC AND SHALL BE COORDINATED BY THE CONTRACTOR WITH EXISTING CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES.
- C. CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED EMERGENCY MICRO-INVERTER CIRCUIT.
- D. EMERGENCY EGRESS LIGHTING IS DESIGNATED AS 'EM' AND SHALL BE CIRCUITED VIA MICRO-INVERTER. PROVIDE UL924 BYPASS SHUNT RELAY FOR THESE LUMINAIRES SO THAT DURING LOSS OF NORMAL POWER, LUMINAIRE GOES TO FULL BRIGHTNESS. CONNECT "HOT" TO MICRO-INVERTER AND "SENSING" TO CLOSEST AVAILABLE NORMAL CIRCUIT.
- D. LIGHTING SHALL BE PROVIDED VIA DISTRIBUTED RELAY SYSTEM WITH WIRELESS CONTROL DEVICES FOR MANUAL DIMMING AND SWITCHING, AUTOMATIC DAYLIGHT HARVESTING, AND OCCUPANCY SENSOR CONTROL.
- E. LIGHTING CONTROL INTENT:
  - CENTRAL AREA:
    - AUTOMATIC ON/OFF VIA TIMECLOCK
    - OCCUPANCY SENSORS TO REDUCE LIGHT OUTPUT TO 50% WHEN UNOCCUPIED
    - MANUAL OVERRIDE AND DIMMER SWITCH
    - PHOTOCELL FOR AUTOMATIC DIMMING IN DAYLIGHT ZONES
  - OFFICES/MEETING ROOMS:
    - OCCUPANCY SENSORS TO TURN OFF LIGHTING WHEN UNOCCUPIED
    - MANUAL OVERRIDE AND DIMMER SWITCH
    - PHOTOCELL FOR AUTOMATIC DIMMING IN DAYLIGHT ZONES
  - ALL OTHER INDOOR AREAS:
    - MANUAL ON/AUTOMATIC OFF VIA OCCUPANCY SENSORS
    - MANUAL OVERRIDE AND DIMMER SWITCH
    - PHOTOCELL FOR AUTOMATIC DIMMING IN DAYLIGHT ZONES
- E. BASIS-OF-DESIGN NETWORK LIGHTING CONTROL SYSTEM IS LUTRON VIVE.

**NOTES:**

1. CONTRACTOR TO CONFIRM EXISTING LIGHTING AT DOOR. RELAMP AND REFURBISH. IF FIXTURE NEEDS REPLACEMENT, PROVIDE ALTERNATE FIXTURE FOR APPROVAL BY ARCHITECT.

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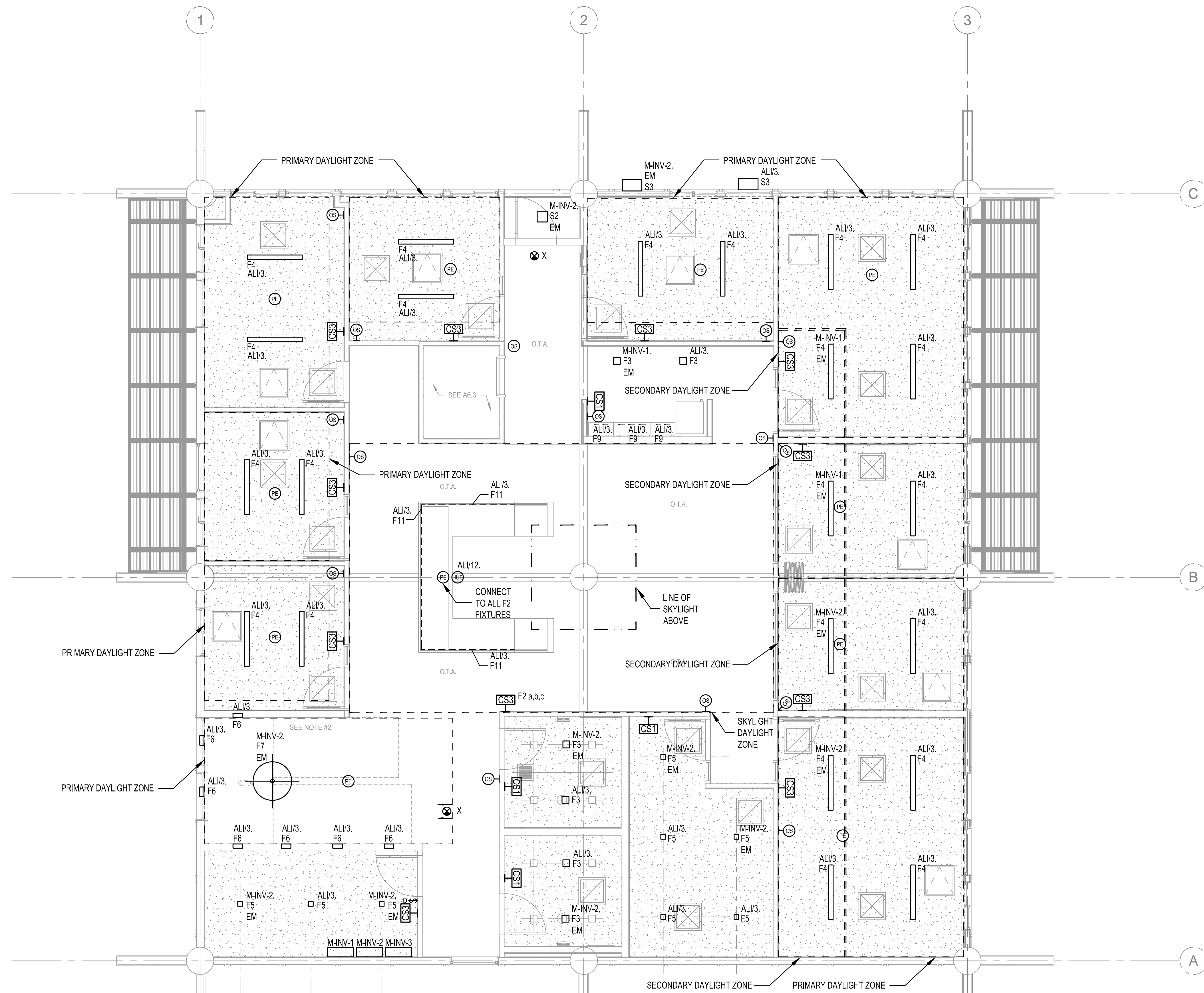
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**FIRST FLOOR PLAN LIGHTING**



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

**GENERAL NOTES:**

- A. ALL LUMINAIRES AND DEVICES ARE NEW, UNLESS NOTED OTHERWISE.
- B. ALL COMPONENTS SHOWN ARE DIAGRAMMATIC AND SHALL BE COORDINATED BY THE CONTRACTOR WITH EXISTING CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES.
- C. CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED EMERGENCY MICRO-INVERTER CIRCUIT.
- D. EMERGENCY EGRESS LIGHTING IS DESIGNATED AS 'EM' AND SHALL BE CIRCUITED VIA MICRO-INVERTER. PROVIDE UL924 BYPASS SHUNT RELAY FOR THESE LUMINAIRES SO THAT DURING LOSS OF NORMAL POWER, LUMINAIRE GOES TO FULL BRIGHTNESS. CONNECT "HOT" TO MICRO-INVERTER AND "SENSING" TO CLOSEST AVAILABLE NORMAL CIRCUIT.
- D. LIGHTING SHALL BE PROVIDED VIA DISTRIBUTED RELAY SYSTEM WITH WIRELESS CONTROL DEVICES FOR MANUAL DIMMING AND SWITCHING, AUTOMATIC DAYLIGHT HARVESTING, AND OCCUPANCY SENSOR CONTROL.
- E. LIGHTING CONTROL INTENT:
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- E. BASIS-OF-DESIGN NETWORK LIGHTING CONTROL SYSTEM IS LUTRON VIVE.

**NOTES:**

- 1. -

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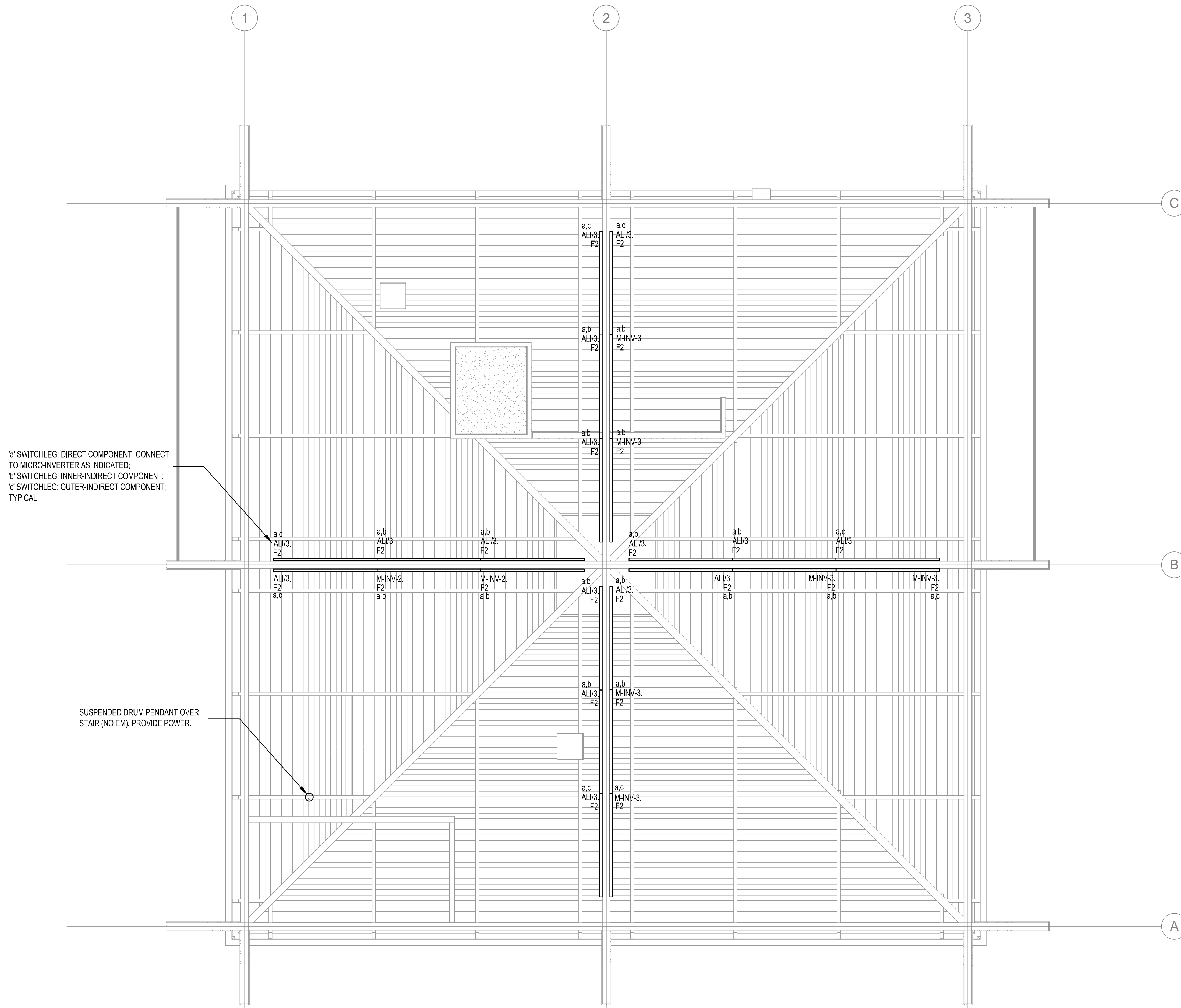
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**SECOND FLOOR PLAN LIGHTING**

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  - B. ALL COMPONENTS SHOWN ARE DIAGRAMMATIC AND SHALL BE COORDINATED BY THE CONTRACTOR WITH EXISTING CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES.
  - C. CONNECT ALL EXIT SIGNS TO NEAREST UNSWITCHED EMERGENCY MICRO-INVERTER CIRCUIT.
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    - ALL OTHER INDOOR AREAS:
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      - MANUAL OVERRIDE AND DIMMER SWITCH
      - PHOTOCELL FOR AUTOMATIC DIMMING IN DAYLIGHT ZONES
  - E. BASIS-OF-DESIGN NETWORK LIGHTING CONTROL SYSTEM IS LUTRON VIVE.

NOTES:  
1.

**1** SECOND FLOOR TOP OF BEAM PLAN - LIGHTING  
E203 SCALE: 1/4" = 1'-0"

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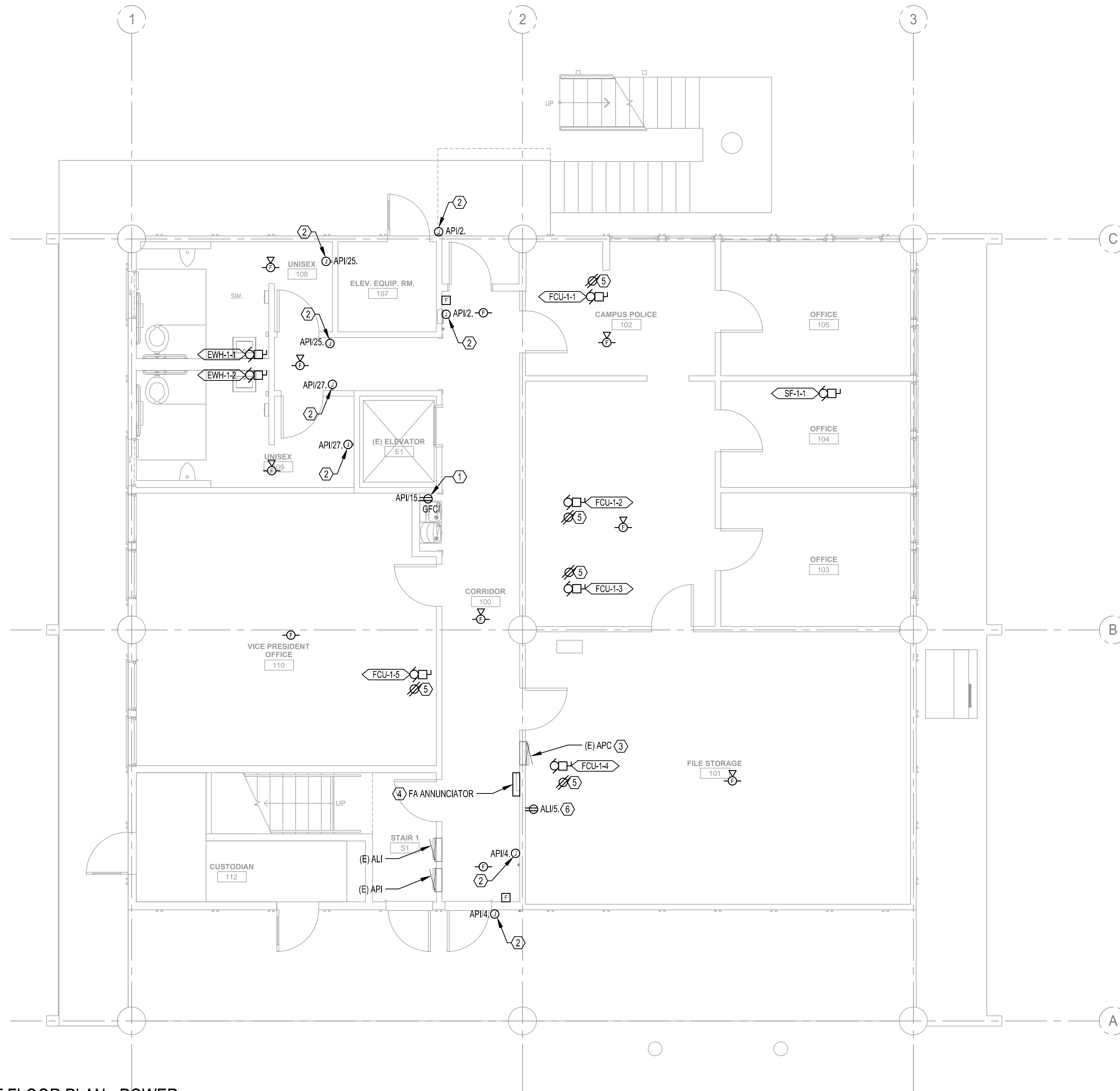
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**SECOND FLOOR TOP OF BEAM PLAN LIGHTING**





**1** FIRST FLOOR PLAN - POWER  
 E301 SCALE: 1/4" = 1'-0"

- GENERAL NOTES:**
- A. SCOPE OF WORK AT THIS LEVEL INCLUDES REPLACEMENT OF PLUMBING FIXTURES AND MECHANICAL EQUIPMENT ONLY.
  - B. ALL EQUIPMENT AND DEVICES ARE NEW, UON.
  - C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT LOCATIONS.
  - D. ELECTRICAL CONTRACTOR TO MAINTAIN CONNECTIONS TO ALL DEVICES ON THE FIRST FLOOR THRU CONSTRUCTION.
  - E. ELECTRICAL CONTRACTOR TO REFERENCE TELECOM DRAWINGS FOR ADDITIONAL TELECOM, AV, AND SECURITY COORDINATION.
  - F. FIRE ALARM STROBES/HORN NOTED AS NEW SHALL BE BY SIMPLEX.

- NOTES:**
1. PROVIDE 120V DUPLEX RECEPTACLE CONNECTION TO DRINKING FOUNTAIN. BRANCH CIRCUIT WIRING TO REMAIN IN PLACE.
  2. PROVIDE 120V CONNECTION TO DOOR HARDWARE.
  3. MAINTAIN CONNECTION TO PANEL THROUGHOUT CONSTRUCTION.
  4. REPLACE EXISTING FIRE ALARM ANNUNCIATOR WITH NEW, MANUFACTURER BY HONEYWELL.
  5. PROVIDE RECEPTACLE ADJACENT TO FCU FOR CONNECTION TO CONDENSATE PUMP.
  6. PROVIDE RECEPTACLE FOR CONNECTION TO DDC PANEL. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION.

**ARCHITECT**  
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 1286 66th street  
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 www.brick-llp.com

**CLIENT**  
 marin community college district  
 835 college avenue  
 kentfield, ca 94904



rev	date	issue
-	3/10/17	100% CD/BID SET

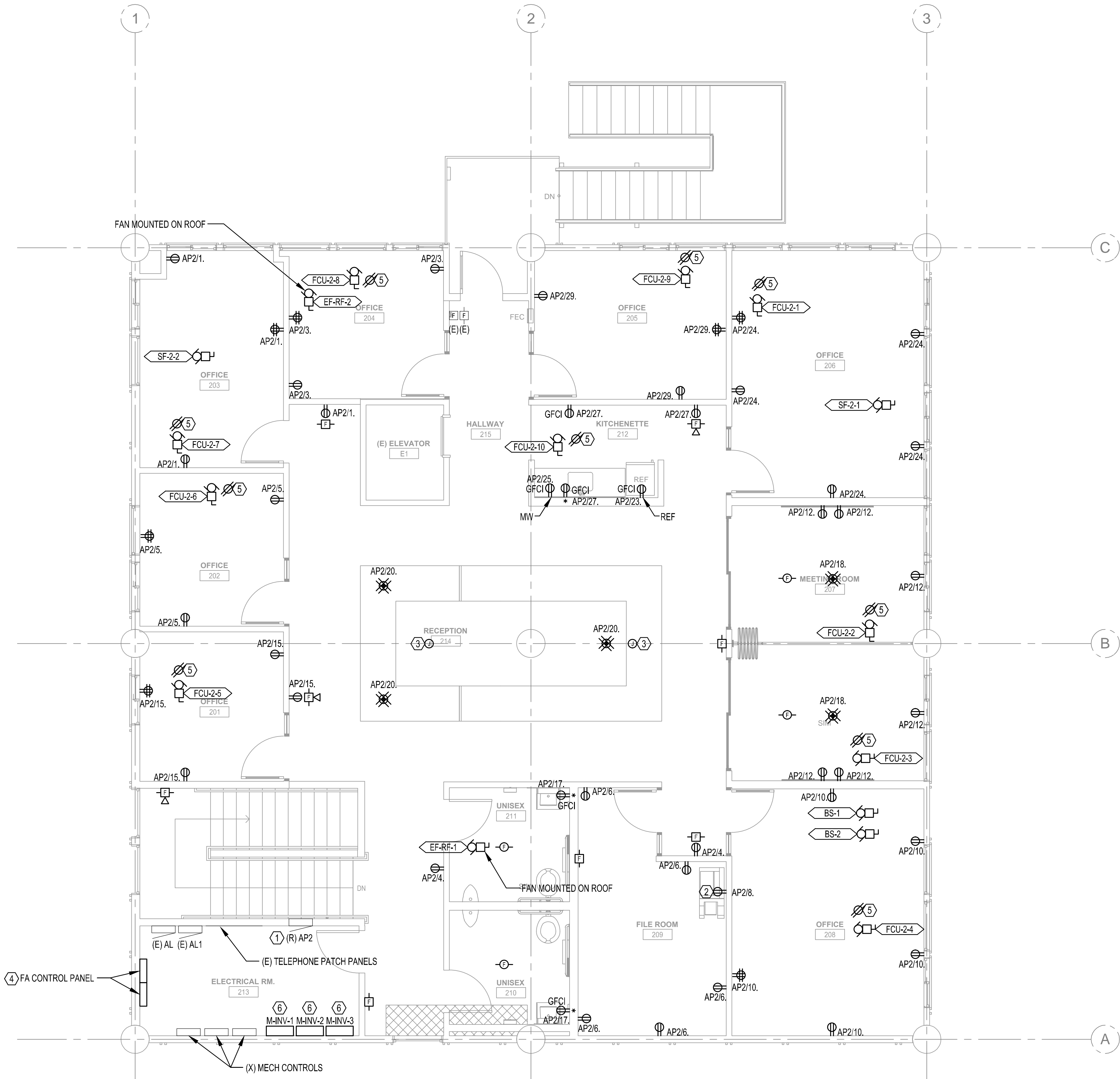


college of marin - indian valley campus bldg. 11 renovation

novato, california  
 project number: 17-1095

scale: 1/4" = 1'-0"  
 date: 16/02/2017

**FIRST FLOOR PLAN POWER**



**GENERAL NOTES:**

A. ALL EQUIPMENT AND DEVICES ARE NEW, UON.

B. ALL COMPONENTS SHOWN ARE DIAGRAMMATIC AND SHALL BE COORDINATED BY THE CONTRACTOR WITH EXISTING CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES.

C. FIRE ALARM SYSTEM IS DESIGN-BUILD. EQUIPMENT AND DEVICE LOCATIONS ARE SHOWN TO ESTABLISH A BASIS-OF-DESIGN ONLY. CONTRACTOR IS RESPONSIBLE FOR FULL DESIGN, PERMITTING, INSTALLATION, TESTING, AND COORDINATION WITH OTHER TRADES FOR A COMPLETE AND CODE-COMPLIANT SYSTEM.

D. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT LOCATIONS.

E. ELECTRICAL CONTRACTOR TO REFERENCE TELECOM DRAWINGS FOR ADDITIONAL TELECOM, AV, AND SECURITY COORDINATION.

F. CABLING FOR TELECOM SHALL BE ROUTED IN 3/4" CONDUIT BELOW LEVEL 2 SLAB. 4" BACK BOXES TO BE PROVIDED AT LOCATIONS INDICATED ON TELECOM DRAWINGS. EC TO PROVIDE AND INSTALL CONDUIT AND BOXES.

G. FIRE ALARM STROBES/HORNS NOTED AS NEW SHALL BE BY SIMPLEX.

**NOTES:**

- ELECTRICAL CONTRACTOR TO COORDINATE FINAL ROUGH-IN LOCATION OF POWER PANEL WITH EXISTING PATCH PANELS. IF IT'S DISCOVERED DURING SHOP DRAWING PHASE THAT THE PANEL DOES NOT HAVE SUFFICIENT CLEARANCE AND/OR SPACE, CONTRACTOR SHALL INFORM THE ENGINEER AND ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE DUPLEX RECEPTACLE CONNECTION TO COPIER.
- PROVIDE JUNCTION BOX FOR FUTURE CONNECTION TO CEILING FAN. EXACT LOCATION TO BE CONFIRMED IN FIELD.
- REPLACE EXISTING FIRE ALARM CONTROL PANEL WITH NEW. MANUFACTURER BY HONEYWELL. BRANCH CIRCUIT WIRING TO REMAIN IN PLACE.
- PROVIDE RECEPTACLE ADJACENT TO FCU FOR CONNECTION TO CONDENSATE PUMP.
- SURE-LITES INV550SI EMERGENCY INVERTER. CONNECT TO PANEL ALL LOAD NOT TO EXCEED 550W PER MICRO-INVERTER.

**1 SECOND FLOOR PLAN - POWER**  
 E302 SCALE: 1/4" = 1'-0"

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3/10/17 100% CD/BID SET  
 rev date issue



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novato, california  
 project number: 17-1095

scale: 1/4" = 1'-0"  
 date: 16/02/2017

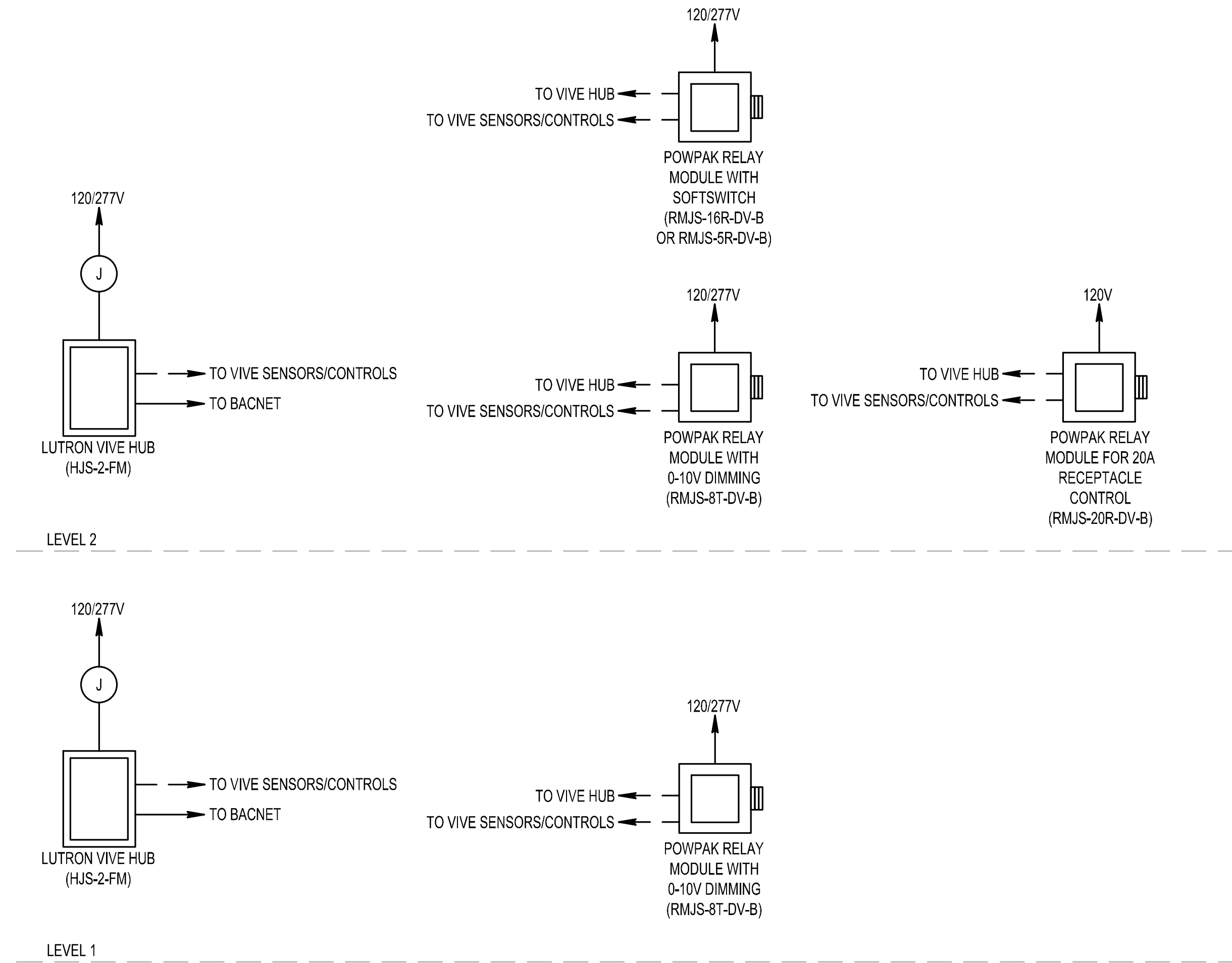
**SECOND FLOOR PLAN POWER**

**E302**

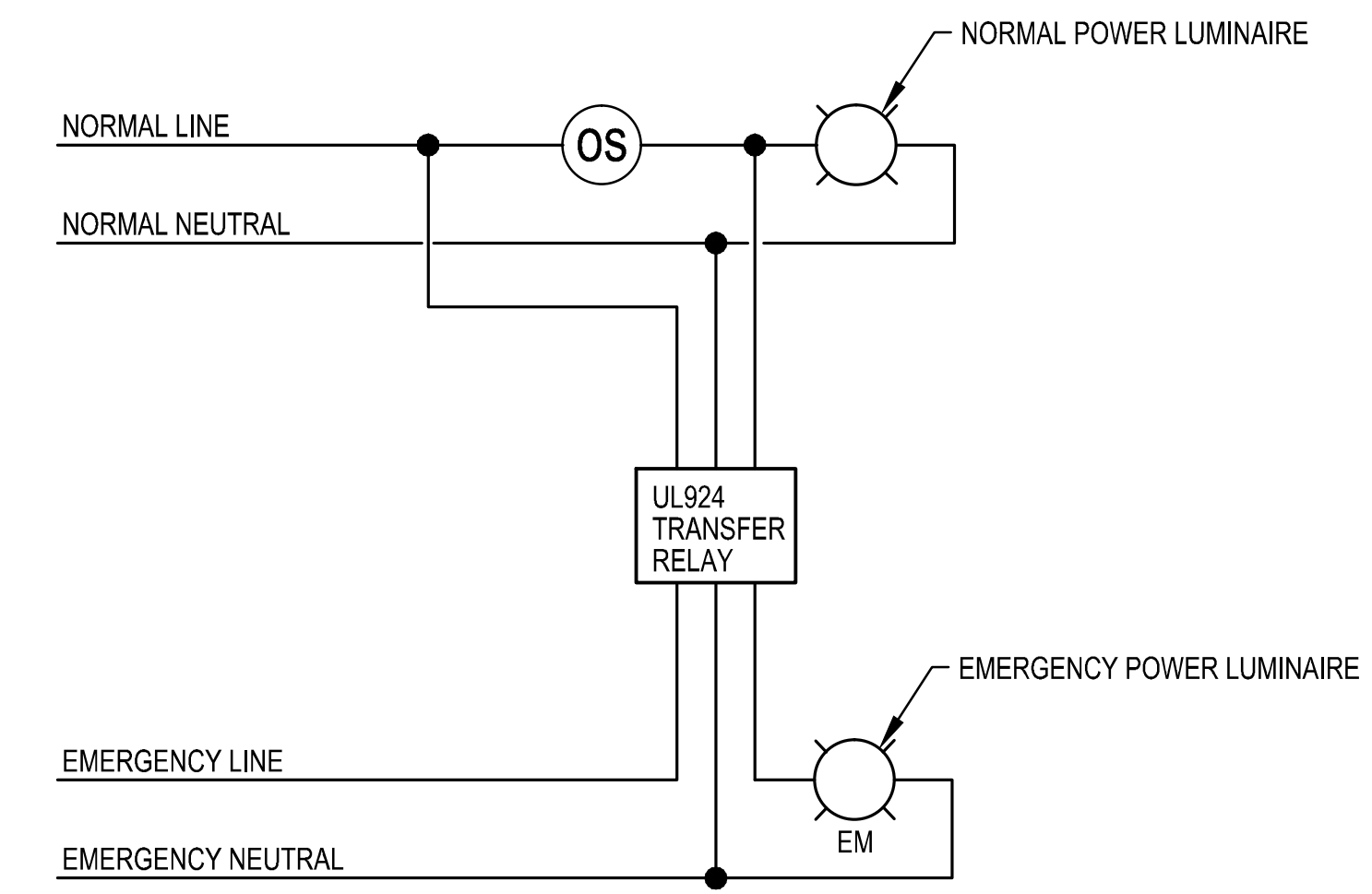
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2 LUTRON VIVE NETWORK LIGHTING CONTROL SCHEMATIC  
E601 SCALE: NONE



1 EMERGENCY LIGHTING TRANSFER RELAY WIRING DETAIL  
E601 SCALE: NONE

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campus bldg. 11  
renovation

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project number: 17-1095

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date: 16/02/2017

DETAILS - ELECTRICAL

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**GENERAL NOTES:**

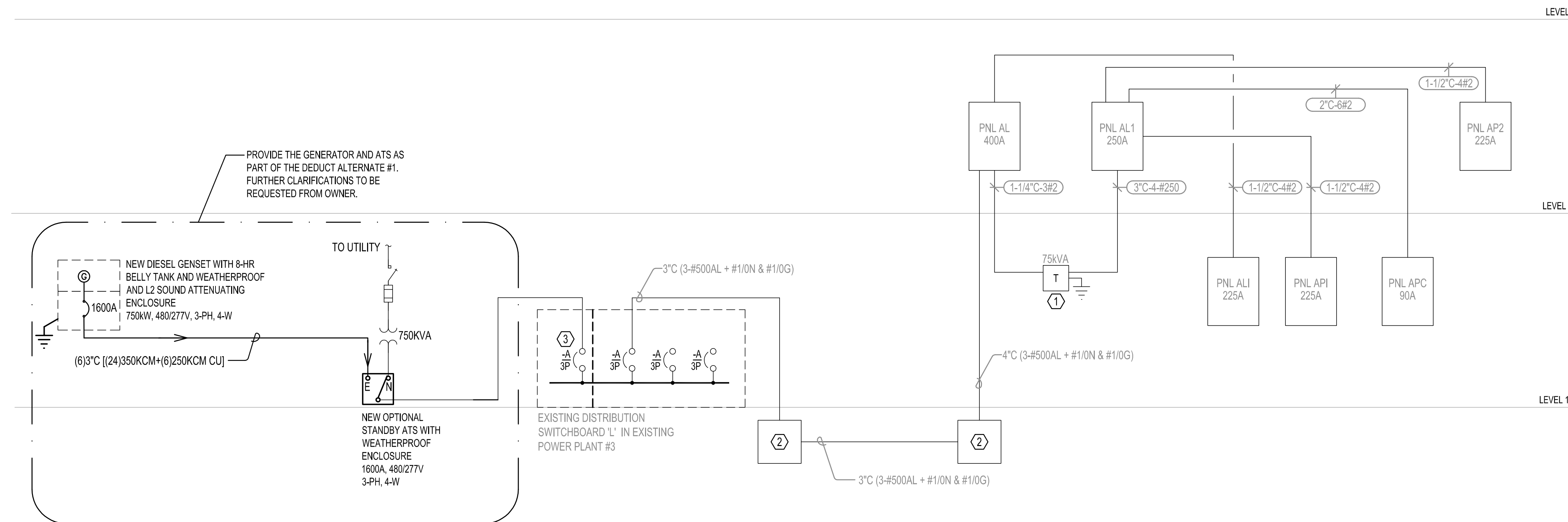
A. ALL EQUIPMENT AND CONNECTIONS SHOWN ARE EXISTING TO REMAIN, UNO.

B. SEE PLANS AND SCHEDULES FOR FURTHER CIRCUITING INFORMATION AND REQUIREMENTS.

C. CONTRACTOR SHALL PROVIDE A SEQUENCE OF INSTALLATION FOR THE GENERATOR AND REQUEST APPROVAL FOR SHUT-DOWN OF SERVICE, WHEN NEEDED, PRIOR TO PROCEEDING WITH THE INSTALLATION.

**NOTES:**

1. STEP-DOWN TRANSFORMER LOCATED WITHIN TRANSFORMER ROOM #116 BELOW STAIR LANDING PER AS-BUILT DRAWINGS. MAINTAIN POWER TO TRANSFORMER THROUGHOUT CONSTRUCTION.
2. EXISTING CONCRETE PULL-BOX.
3. MAIN BREAKER SIZE TO BE CONFIRMED IN FIELD.



LEVEL 3

LEVEL 2

LEVEL 1

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novato, california  
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date: 16/02/2017

**SINGLE - LINE DIAGRAM ELECTRICAL**



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(E) PANEL AL1 (FORMERLY PANEL AL1)															
PANEL: (E) AL1 AMP: 225 MLO <input checked="" type="checkbox"/> MCB <input type="checkbox"/>				LOCATION: LEVEL 1				VOLTS: 480 Y/ 277 P 3				W: 4 AIC RATING: 14K MOUNT: <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH			
TYPE: EXISTING <input checked="" type="checkbox"/> NEW <input type="checkbox"/> STYLE: PANELBOARD				NEUTRAL: 100%				FED FROM: (E) AL							
CIRCUIT DESCRIPTION	LOAD		CKT	P	CIR #	P	CIR #	P	CKT BKR	LOAD		CIRCUIT DESCRIPTION			
	TYPE	KVA								KVA	TYPE				
(N) LTG - LEVEL 1	LTG	0.80	(E) 20	1	1	A	2	3	(E) 30			(E) AC SRVR RM INDOOR			
(N) LTG - LEVEL 2	LTG	2.61	(E) 20	1	3	B	4	-	-			(E) AC SRVR RM INDOOR			
(N) DDC PANEL	MISC	0.20	(E) 20	1	5	C	6	-	-			(E) AC SRVR RM INDOOR			
(N) MICROINVERTER 1	LTG	0.68	(E) 20	1	7	A	8	1	(E) 20			(E) SPARE			
(N) MICROINVERTER 2	LTG	0.68	(E) 20	1	9	B	10	1	(E) 20			(E) SPARE			
(N) MICROINVERTER 3	LTG	0.68	(E) 20	1	11	C	12	1	(E) 20	0.40	LTG	(N) LUTRON VIVE HUBS			
(E) SPARE			(E) 15	3	13	A	14	3	(E) 15			(E) AC SRVR RM OUTDOOR COND UNIT			
-					15	B	16	-	-			(E) SPARE			
-					17	C	18	-	-			(E) SPARE			
(E) SPARE			(E) 15	3	19	A	20	3	(E) 15			(E) SPARE			
-					21	B	22	-	-			(E) SPARE			
-					23	C	24	-	-			(E) SPARE			
(E) SPARE			(E) 15	3	25	A	26	3	(E) 50			(E) 15 HP ELEVATOR MOTOR			
-					27	B	28	-	-			(E) SPARE			
-					29	C	30	-	-			(E) SPARE			
(N) MICROINVERTER 7	LTG	0.15			31	A	32					(E) SPACE			
(E) SPACE					33	B	34					(E) SPACE			
(E) SPACE					35	C	36					(E) SPACE			
ESTIMATED MAXIMUM DEMAND (EMD) CALCULATIONS															
LOAD SUMMARY:				LOAD TYPE: CONNECTED				NEC DEMAND							
LIGHTING	LTG	5.98	KVA	7.48	KVA	(125%)								CONNECTED PHASE LOADING	
RESIDENT LTG/RECPT	RES	0.00	KVA	0.00	KVA	(100/35/25 %)	PHASE A: 1.63 KVA								
SMALL APPLIANCE	RES	0.00	KVA	0.00	KVA	(100/35/25 %)	PHASE B: 3.28 KVA								
LARGEST MOTOR			KVA	0.00	KVA	(125%)	PHASE C: 1.28 KVA								
REMAINING MOTORS	MTR	0.00	KVA	0.00	KVA	(100%)									
GEN PURPOSE RECPT	REC	0.00	KVA	0.00	KVA	(50% > 10KVA)									
COMPUTER RECPT	MISC	0.00	KVA	0.00	KVA	(100%)									
EQUIP/OTHER	MISC	0.20	KVA	0.20	KVA	(100%)									
HEATING	MISC	0.00	KVA	0.00	KVA	(100%)									
ELEVATOR	ELEV	0.00	KVA	0.00	KVA	@ 100%									
KITCHEN EQPT	KITCH	0.00	KVA	0.00	KVA	@ 65%									
TOTALS:		6.18	KVA	7.68	KVA										
			7.44	AMPS	9.24	AMPS									
NOTES:															
1. LIGHT LINEWEIGHT AND (E) DENOTES EXISTING.															
2. BOLD LINEWEIGHT AND (N) DENOTES NEW.															
3. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS PRIOR CONSTRUCTION. CONTRACTOR TO VERIFY THAT CIRCUITS IDENTIFIED ARE AVAILABLE FOR USE AS INDICATED ON PLANS.															
4. CONTRACTOR SHALL MARK CIRCUIT DESCRIPTIONS AS 'SPARE' IF LOAD IS FOUND TO BE REMOVED.															
5. PROVIDE CT METER FOR TIE-IN TO CAMPUS BACNET SYSTEM ON CIRCUITS NOTED.															

(E) PANEL API (FORMERLY PANEL AP2)															
PANEL: (E) API AMP: 225 MLO <input checked="" type="checkbox"/> MCB <input type="checkbox"/>				LOCATION: LEVEL 1				VOLTS: 208 Y/ 120 P 3				W: 4 AIC RATING: 10K MOUNT: <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH			
TYPE: EXISTING <input checked="" type="checkbox"/> NEW <input type="checkbox"/> STYLE: PANELBOARD				NEUTRAL: 100%				FED FROM: (E) AL1							
CIRCUIT DESCRIPTION	LOAD		CKT	P	CIR #	P	CIR #	P	CKT BKR	LOAD		CIRCUIT DESCRIPTION			
	TYPE	KVA								KVA	TYPE				
(E) LTG RM: 103, 104, 116 & ELEV. PIT.			(E) 20	1	1	A	2	1	(E) 20	1.00	MISC	(N) DOOR HARDWARE - NORTH ENTRANCE			
(E) LTG RM: 116, 102			(E) 20	1	3	B	4	1	(E) 20	1.00	MISC	(N) DOOR HARDWARE - SOUTH ENTRANCE			
(E) REC. RM: 103, 104, SURF RACEWAY			(E) 20	1	5	C	6	1	(E) 20			(E) REC. RM: 103, SURF RACEWAY			
(E) REC. RM: 103, 104, SURF RACEWAY			(E) 20	1	7	A	8	1	(E) 20			(E) REC. RM: 103, SURF RACEWAY			
(E) REC. EXT. ELECT. CART CHARGER			(E) 20	1	9	B	10	1	(E) 20			(E) REC. RM: 102, SOLDER BENCH			
(E) REC. RM: 100, 102, 105 & IN-WALL AMP.			(E) 20	1	11	C	12	1	(E) 20			(E) REC. RM: 102, SURF RACEWAY			
(E) REC. RM: 101, 102, 103 & 114			(E) 20	1	13	A	14	1	(E) 20			(E) REC. RM: 102, SURF RACEWAY			
(N) DRINKING FOUNTAIN	MISC	0.37	(N) 20	1	15	B	16	1	(E) 20			(E) SPARE			
(E) SPACE			(E) 20	1	17	C	18	1	(E) 20			(E) SPARE			
(E) LTG RM: 100, 103, 104, 106, 110			(E) 20	1	19	A	20	1	(E) 20			(E) SPARE			
(E) SPARE			(E) 20	1	21	B	22	2	(E) 20			(E) REC. EXTERIOR "NORTH"			
(E) SPARE			(E) 20	1	23	C	24	-	-			(E) SPARE			
(N) DOOR HARDWARE - UNISEX 108	MISC	1.00	(E) 20	1	25	A	26	1	(E) 30			(E) SPARE			
(N) DOOR HARDWARE - UNISEX 109	MISC	1.00	(E) 20	1	27	B	28					(E) SPACE			
(E) SPACE					29	C	30	2	(E) 30			(E) SPACE			
(E) SPACE			(E) 20	1	31	A	32	-	-			(E) SPACE			
(E) SPACE					33	B	34					(E) SPACE			
(E) SPACE					35	C	36					(E) SPACE			
ESTIMATED MAXIMUM DEMAND (EMD) CALCULATIONS															
LOAD SUMMARY:				LOAD TYPE: CONNECTED				NEC DEMAND							
LIGHTING	LTG	0.00	KVA	0.00	KVA	(125%)								CONNECTED PHASE LOADING	
RESIDENT LTG/RECPT	RES	0.00	KVA	0.00	KVA	(100/35/25 %)	PHASE A: 2.00 KVA								
SMALL APPLIANCE	RES	0.00	KVA	0.00	KVA	(100/35/25 %)	PHASE B: 2.37 KVA								
LARGEST MOTOR			KVA	0.00	KVA	(125%)	PHASE C: 0.00 KVA								
REMAINING MOTORS	MTR	0.00	KVA	0.00	KVA	(100%)									
GEN PURPOSE RECPT	REC	0.00	KVA	0.00	KVA	(50% > 10KVA)									
COMPUTER RECPT	MISC	0.00	KVA	0.00	KVA	(100%)									
EQUIP/OTHER	MISC	4.37	KVA	4.37	KVA	(100%)									
HEATING	MISC	0.00	KVA	0.00	KVA	(100%)									
ELEVATOR	ELEV	0.00	KVA	0.00	KVA	@ 100%									
KITCHEN EQPT	KITCH	0.00	KVA	0.00	KVA	@ 65%									
TOTALS:		4.37	KVA	4.37	KVA										
			12.13	AMPS	12.13	AMPS									
NOTES:															
1. LIGHT LINEWEIGHT AND (E) DENOTES EXISTING.															
2. BOLD LINEWEIGHT AND (N) DENOTES NEW.															
3. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS PRIOR CONSTRUCTION. CONTRACTOR TO VERIFY THAT CIRCUITS IDENTIFIED ARE AVAILABLE FOR USE AS INDICATED ON PLANS.															
4. CONTRACTOR SHALL MARK CIRCUIT DESCRIPTIONS AS 'SPARE' IF LOAD IS FOUND TO BE REMOVED.															
5. PROVIDE CT METER FOR TIE-IN TO CAMPUS BACNET SYSTEM ON CIRCUITS NOTED.															

(E) PANEL AL															
PANEL: (E) AL AMP: 400 MLO <input type="checkbox"/> MCB <input checked="" type="checkbox"/> 400A				LOCATION: LEVEL 2				VOLTS: 480 Y/ 277 P 3				W: 4 AIC RATING: MOUNT: <input checked="" type="checkbox"/> SURFACE <input type="checkbox"/> FLUSH			
TYPE: EXISTING <input checked="" type="checkbox"/> NEW <input type="checkbox"/> STYLE: PANELBOARD				NEUTRAL: 100%				FED FROM: (E) SWBD L							
CIRCUIT DESCRIPTION	LOAD		CKT	P	CIR #	P	CIR #	P	CKT BKR	LOAD		CIRCUIT DESCRIPTION			
	TYPE	KVA								KVA	TYPE				
(E) LTG RM: 200, 206, 207, 215, 216 & 219			(E) 20	1	1	A	2	1	(E) 20			(E) LTG. RM: 208 & 209			
(E) LTG RM: 201 THRU 205			(E) 20	1	3	B	4	1	(N) 90	16.05	MTR	(N) EWH-2-1			
(E) SPARE			(E) 20	1	5	C	6	1	(N) 30	5.54	MTR	(N) EWH-2-2			
(E) EWH-2-3	MTR	5.54	(N) 30	1	7	A	8	2	(E) 40			(E) COMPUTER PANEL			
(N) EWH-1-1	MTR	5.54	(N) 30	1	9	B	10	-	-			(E) SPACE			
(N) EWH-1-2	MTR	5.54	(N) 30	1	11	C	12	-	-			(E) SPACE			
(E) AC-5			(E) 15	3	13	A	14	3	(E) 15			(E) AC-6			
-					15	B	16	-	-			(E) SPACE			
-					17	C	18	-	-			(E) SPACE			
(E) AC-5			(E) 15	3	19	A	20	3	(E) 20			(E) AC-8 RM 201			
-					21	B	22	-	-			(E) SPACE			
-					23	C	24	-	-			(E) SPACE			
(E) AC-7			(E) 15	3	25	A	26	3	(E) 20			(E) AC-8			
-					27	B	28	-	-			(E) SPACE			
-					29	C	30	-	-			(E) SPACE			
(E) AC-5			(E) 20	3	31	A	32	3	(E) 40			(E) 15KW, ELEC WATER HEATER			
-					33	B	34	-	-			(E) SPACE			
-					35	C	36	-	-			(E) SPACE			
(E) PANEL AL1	COMB	13.59	(E) 90	3	37	A	38	3	(E) 100	1.25	COMB	(E) PANEL AL1			
-	COMB	29.92			39	B	40	-	-	3.68	COMB	(E) SPACE			
-	COMB	33.87			41	C	42	-	-	0.50	COMB	(E) SPACE			
ESTIMATED MAXIMUM DEMAND (EMD) CALCULATIONS															
LOAD SUMMARY:				LOAD TYPE: CONNECTED				NEC DEMAND							
LIGHTING	LTG	5.23	KVA	6.53	KVA	(125%)								CONNECTED PHASE LOADING	
RESIDENT LTG/RECPT	RES	0.00	KVA	0.00	KVA	(100/35/25 %)	PHASE A: 20.38 KVA								
SMALL APPLIANCE	RES	0.00	KVA	0.00	KVA	(100/35/25 %)	PHASE B: 55.18 KVA								
LARGEST MOTOR			KVA	0.00	KVA	(125%)	PHASE C: 45.45 KVA								
REMAINING MOTORS	MTR	60.53	KVA	60.53	KVA	(100%)									
GEN PURPOSE RECPT	REC	10.52	KVA	10.26	KVA	(50% > 10KVA)									
COMPUTER RECPT	MISC	0.00	KVA	0.00	KVA	(100%)									
EQUIP/OTHER	MISC	42.40	KVA	42.40	KVA	(100%)									
HEATING	MISC	0.00	KVA	0.00	KVA	(100%)									
ELEVATOR	ELEV	0.00	KVA	0.00	KVA	@ 100%									
KITCHEN EQPT	KITCH	2.34	KVA	1.52	KVA	@ 65%									
TOTALS:		121.01	KVA	121.24	KVA										
			145.55	AMPS	145.83	AMPS									
NOTES:															
1. LIGHT LINEWEIGHT AND (E) DENOTES EXISTING.															
2. BOLD LINEWEIGHT AND (N) DENOTES NEW.															
3. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS PRIOR CONSTRUCTION. CONTRACTOR TO VERIFY THAT CIRCUITS IDENTIFIED ARE AVAILABLE FOR USE AS INDICATED ON PLANS.															
4. CONTRACTOR SHALL MARK CIRCUIT DESCRIPTIONS AS 'SPARE' IF LOAD IS FOUND TO BE REMOVED.															
5. PROVIDE CT METER FOR TIE-IN TO CAMPUS BACNET SYSTEM ON CIRCUITS NOTED.															

(E) PANEL AL1 (FORMERLY PANEL AP)													
PANEL: (E) AL1 AMP: 250 MLO <input type="checkbox"/> MCB <input checked="" type="checkbox"/> 250A				LOCATION: LEVEL 2				VOLTS: 208 Y/ 120 P					

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(E) PANEL AP2 (FORMERLY PANEL AP1)															
PANEL: (E) AP2				LOCATION: LEVEL 2				VOLTS: 208 Y/ 120 P 3				W: 4		AIC RATING: 10K	
AMP: 225 MLO <input checked="" type="checkbox"/> MCB <input type="checkbox"/>												MOUNT: <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH			
TYPE: EXISTING <input checked="" type="checkbox"/> NEW <input type="checkbox"/>				STYLE: PANELBOARD				NEUTRAL: 100%				FED FROM: (E) AL1			
CIRCUIT DESCRIPTION	LOAD		CKT BKR	P	CIR #	P	CIR #	P	CKT BKR	LOAD		CIRCUIT DESCRIPTION			
	TYPE	KVA								KVA	TYPE				
(N) REC. RM: OFFICE 203, HALL [NOTE 5]	REC	0.90	(E) 20	1	1	A	2	1	(E) 20			(E) LTG. RM: 208			
(N) REC. RM: OFFICE 204 [NOTE 5]	REC	0.72	(E) 20	1	3	B	4	1	(E) 20	0.36	REC	(N) REC. RM: SOUTH CORRIDOR [NOTE 5]			
(N) REC. RM: OFFICE 202 [NOTE 5]	REC	0.72	(E) 20	1	5	C	6	1	(E) 20	0.72	REC	(N) REC. RM: FILE ROOM 209 [NOTE 5]			
(E) BAND SAW			(E) 20	1	7	A	8	1	(E) 20	1.44	MISC	(N) COPIER - FILE ROOM 209 [NOTE 5]			
(E) JIG SAW			(E) 20	1	9	B	10	1	(E) 20	1.10	REC	(N) REC. RM: OFFICE 208 [NOTE 5]			
(E) SPRAY BOOTH			(E) 20	1	11	C	12	1	(E) 20	1.10	REC	(N) REC. RM: MEETING ROOM 207 [NOTE 5]			
(E) GRINDER			(E) 20	1	13	A	14	1	(E) 20			(E) FILM DRYER			
(N) REC. RM: OFFICE 201, HALL [NOTE 5]	REC	0.90	(E) 20	1	15	B	16	1	(E) 20			(E) PRINT WASHER			
(N) REC. RM: UNISEX 210, UNISEX 211 [NOTE 5]	REC	0.36	(E) 20	1	17	C	18	1	(E) 20	0.72	REC	(N) FLOOR REC. RM: MTG 207 [NOTE 5]			
(E) REC. ROOM: 205			(E) 20	1	19	A	20	1	(E) 20	1.10	REC	(N) FLOOR REC. RM: LOBBY [NOTE 5]			
(E) REC. ROOM: 203, 204 & 205			(E) 20	1	21	B	22	1	(E) 20			(E) COPY MACHINE			
(N) REF - KITCHENETTE [NOTE 5]	KITCH	0.80	(E) 20	1	23	C	24	1	(E) 20	1.10	REC	(N) REC. RM: OFFICE 206 [NOTE 5]			
(N) MW - KITCHENETTE [NOTE 5]	KITCH	1.00	(E) 20	1	25	A	26	1	(E) 20			(E) SPARE			
(N) REC. RM: KITCHENETTE [NOTE 5]	KITCH	0.54	(E) 20	1	27	B	28	1	(E) 20			(E) SPARE			
(N) REC. RM: OFFICE 205 [NOTE 5]	REC	0.72	(E) 20	1	29	C	30					(E) SPACE			
(E) SPACE					31	A	32					(E) SPACE			
(E) SPACE					33	B	34					(E) SPACE			
(E) SPACE					35	C	36					(E) SPACE			
(E) SPACE					37	A	38					(E) SPACE			
(E) SPACE					39	B	40					(E) SPACE			
(E) SPACE					41	C	42					(E) SPACE			

ESTIMATED MAXIMUM DEMAND (EMD) CALCULATIONS			
LOAD SUMMARY:	LOAD TYPE:	CONNECTED	NEC DEMAND
LIGHTING	LTG	0.00 KVA	0.00 KVA (125%)
RESIDENT LTG/RECPT	RES	0.00 KVA	0.00 KVA ( 100/35/25 %)
SMALL APPLIANCE	RES	0.00 KVA	0.00 KVA ( 100/35/25 %)
LARGEST MOTOR		KVA	0.00 KVA (125%)
REMAINING MOTORS	MTR	0.00 KVA	0.00 KVA (100%)
GEN PURPOSE RECPT	REC	10.52 KVA	10.26 KVA ( 50% > 10KVA)
COMPUTER RECPT	MISC	0.00 KVA	0.00 KVA (100%)
EQUIP/OTHER	MISC	1.44 KVA	1.44 KVA (100%)
HEATING	MISC	0.00 KVA	0.00 KVA (100%)
ELEVATOR	ELEV	0.00 KVA	0.00 KVA @ 100%
KITCHEN EQPT	KITCH	2.34 KVA	1.52 KVA @ 65%
<b>TOTALS:</b>		<b>14.30 KVA</b>	<b>13.22 KVA</b>
		<b>39.69 AMPS</b>	<b>36.70 AMPS</b>

CONNECTED PHASE LOADING			
PHASE	LOAD		
PHASE A:	4.44 KVA		
PHASE B:	3.62 KVA		
PHASE C:	6.24 KVA		

NOTES:  
 1. LIGHT LINEWEIGHT AND '(E)' DENOTES EXISTING.  
 2. BOLD LINEWEIGHT AND '(N)' DENOTES NEW.  
 3. CONTRACTOR SHALL CONFIRM ALL EXISTING CONDITIONS PRIOR CONSTRUCTION. CONTRACTOR TO VERIFY THAT CIRCUITS IDENTIFIED ARE AVAILABLE FOR USE AS INDICATED ON PLANS.  
 4. CONTRACTOR SHALL MARK CIRCUIT DESCRIPTIONS AS 'SPARE' IF LOAD IS FOUND TO BE REMOVED.  
 5. PROVIDE CT METER FOR TIE-IN TO CAMPUS BACNET SYSTEM ON CIRCUITS NOTED.

(E) PANEL APC (FORMERLY PANEL AP3)															
PANEL: (E) APC				LOCATION: LEVEL 1				VOLTS: 208 Y/ 120 P 2				W: 3		AIC RATING:	
AMP: 90 MLO <input type="checkbox"/> MCB <input checked="" type="checkbox"/> 90A												MOUNT: <input type="checkbox"/> SURFACE <input checked="" type="checkbox"/> FLUSH			
TYPE: EXISTING <input checked="" type="checkbox"/> NEW <input type="checkbox"/>				STYLE: PANELBOARD				NEUTRAL: 100%				FED FROM: (E) AL1			
CIRCUIT DESCRIPTION	LOAD		CKT BKR	P	CIR #	P	CIR #	P	CKT BKR	LOAD		CIRCUIT DESCRIPTION			
	TYPE	KVA								KVA	TYPE				
(E) EXISTING LOAD			(E) 20	1	1	A	2	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	3	B	4	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	5	A	6	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	7	B	8	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 15	1	9	A	10	1	(E) 15			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 15	1	11	B	12	1	(E) 15			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 15	1	13	A	14	1	(E) 15			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 30	1	15	B	16	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	17	A	18	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	19	B	20	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	21	A	22	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	23	B	24	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	25	A	26	1	(E) 20			(E) EXISTING LOAD			
(E) EXISTING LOAD			(E) 20	1	27	B	28	1	(E) 20			(E) EXISTING LOAD			
(E) SPACE					29	A	30					(E) SPACE			
(E) SPACE					31	B	32					(E) SPACE			
(E) SPACE					33	A	34					(E) SPACE			
(E) SPACE					35	B	36					(E) SPACE			
(E) SPACE					37	A	38	3	(E) 90			(E) EXISTING LOAD			
(E) SPACE					39	B	40	-	-			(E) EXISTING LOAD			
(E) SPACE					41	A	42	-	-			(E) EXISTING LOAD			

ESTIMATED MAXIMUM DEMAND (EMD) CALCULATIONS			
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ELEVATOR	ELEV	0.00 KVA	0.00 KVA @ 100%
KITCHEN EQPT	KITCH	0.00 KVA	0.00 KVA @ 65%
<b>TOTALS:</b>		<b>0.00 KVA</b>	<b>0.00 KVA</b>
		<b>0.00 AMPS</b>	<b>0.00 AMPS</b>

CONNECTED PHASE LOADING			
PHASE	LOAD		
PHASE A:	0.00 KVA		
PHASE B:	0.00 KVA		
PHASE C:	0.00 KVA		

NOTES:  
 1. LIGHT LINEWEIGHT AND '(E)' DENOTES EXISTING.  
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 5. PROVIDE CT METER FOR TIE-IN TO CAMPUS BACNET SYSTEM ON CIRCUITS NOTED.

	(E) PANEL AP2
	(E) PANEL APC

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 510.516.0167  
 www.brick-llp.com

CLIENT  
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 835 colleg avenue  
 kentfield, ca 94904



3/10/17 100% CD/BID SET  
 rev date issue



college of marin - indian valley campus bldg. 11 renovation

novato, california  
 project number: 17-1095

scale: NONE  
 date: 16/02/2017

PANEL SCHEDULES - ELECTRICAL



STANDARD PLUMBING ABBREVIATIONS			
AF	AIRFOIL	IE	INVERT ELEVATION
AFF	ABOVE FINISHED FLOOR	IN	INCHES
AHP	APPARATUS HOUSING PLENUM	INSUL	INSULATION
ALT	ALTERNATIVE	ISOL	ISOLATION
AL	ALUMINUM	KW	KILOWATT
APD	AIR PRESSURE DROP	KWH	KILOWATT HOUR
APPROX	APPROXIMATELY	L	LENGTH
ARCH	ARCHITECTURAL	LAT	LEAVING AIR TEMP
AUTO	AUTOMATIC	LB	POUNDS
BDD	BACKDRAFT DAMPER	LDB	LEAVING DRY BULB
BI	BACKWARD INCLINED	LF	LINEAR FEET
BLDG	BUILDING	LFT	LEAVING FLUID TEMPERATURE
BSMT	BASEMENT	LFG	LEAVING
BTU	BRITISH THERMAL UNIT	LWB	LEAVING WET BULB
BTUH	BRITISH THERMAL UNITS PER HOUR	LWT	LEAVING WATER TEMPERATURE
CFH	CUBIC FEET PER HOUR	MAX	MAXIMUM
CFM	CUBIC FEET PER MINUTE	MBH	THOUSAND BTU PER HOUR
CFS	CUBIC FEET PER SECOND	MECH	MECHANICAL
CLS	CEILING OR COOLING	MFR	MANUFACTURER
CONC	CONCRETE	MN	MINIMUM
CONN	CONNECTION	MISC	MISCELLANEOUS
CONT	CONTINUE(D)ATION	MTD	MOUNTED
CL	CENTERLINE	NC	NORMALLY CLOSED
DDC	DIRECT DIGITAL CONTROL	NIC	NOT IN CONTRACT
DEFL	DEFLECTION	NO	NORMALLY OPEN
DN	DOWN	OAD	OUTSIDE AIR DAMPER
DP	DEW POINT	OC	ON CENTER DISTANCE
DWDI	DOUBLE WIDTH DOUBLE INLET	OSA	OUTSIDE AIR
DWG	DRAWING	PH	PHASE
EA	EXHAUST AIR	PP	POLYPROPYLENE
EAD	EXHAUST AIR DAMPER	PSI	POUNDS PER SQUARE INCH
EAT	ENTERING AIR TEMPERATURE	PVC	POLYVINYL CHLORIDE
EDB	ENTERING DRY BULB	PVS	PVC COATED STEEL
EFF	EFFICIENCY	R (RAD)	RADIUS
EFT	ENTERING FLUID TEMPERATURE	RA	RETURN AIR
ELEC	ELECTRICAL	RAD	RETURN AIR DAMPER
ELEV	ELEVATION	REVIS	REVISION
ENGR	ENGINEER	RH	RELATIVE HUMIDITY
EQ	EQUAL	RPM	REVOLUTIONS PER MINUTE
EQUIP	EQUIPMENT	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SCFM	STANDARD CUBIC FEET PER MINUTE
EWB	ENTERING WET BULB	SD	SMOKE DAMPER
EWT	ENTERING WATER TEMPERATURE	SECT	SECTION
EX	EXTRACTOR	SENS	SENSIBLE
EXH	EXHAUST	SM	SMILAR
EXIST	EXISTING	SP	STATIC PRESSURE
EXP	EXPANSION	SPEC	SPECIFICATION
F	DEGREES FAHRENHEIT	SQ	SQUARE
FC	FORWARD CURVED	SF	SQUARE FOOT(FEET)
FIG	FIGURE	SQ IN	SQUARE INCHES
FILT	FILTER	SS	STAINLESS STEEL
FLEX	FLEXIBLE	STL	STEEL
FPD	FLUID PRESSURE DROP	STRUCT	STRUCTURE(E)AL
FFM	FEET PER MINUTE	SWP	SINGLE WALL PLENUM
FPS	FEET PER SECOND	SWSI	SINGLE WIDTH SINGLE INLET
FT	FEET/FOOT	TEMP	TEMPERATURE
FTR	FINNED TUBE RADIATOR	TSP	TOTAL STATIC PRESSURE
FU	FIXTURE UNIT	TYP	TYPICAL
FUT	FUTURE	V	VOLTS
FV	FACE VELOCITY	VD	VOLUME DAMPER
GA	GAGE/GAUGE	VEL	VELOCITY
GAL	GALLON	VERT	VERTICAL
GALV	GALVANIZED	VFD	VARIABLE FREQUENCY DRIVE
GLY	GLYCOL	VTR	VENT THROUGH ROOF
GPH	GALLONS PER HOUR	W	WIDTH
GPM	GALLONS PER MINUTE	WG	WATER GAUGE
H	HEIGHT	WPD	WATER PRESSURE DROP
HORIZ	HORIZONTAL	WTD	WATER TEMPERATURE DROP
HP	HORSEPOWER	WTR	WATER TEMPERATURE RISE
HTG	HEATING	W	WITH
ID	INSIDE(DIAMETER/DIMENSION)	W/O	WITHOUT

DEMOLITION LEGEND	
	REMOVE EXISTING PIPE

NEW AND EXISTING WORK	
	EXISTING WASTEBELOW GRADE OR FLOOR
	EXISTING COLD WATER
	NEW WASTEBELOW GRADE OR FLOOR
	NEW COLD WATER

SPECIALTY PIPING			
	AV	AV	ACID VENT
	AW	AW	ACID WASTE (ABOVE GRADE OR FLOOR)
	AW	AW	ACID WASTE (BELOW GRADE OR FLOOR)
	FW	FW	FLUORIDE WASTE (ABOVE GRADE OR FLOOR)
	FW	FW	FLUORIDE WASTE (BELOW GRADE OR FLOOR)
	DIS	DIS	DEIONIZED WATER SUPPLY
	DIR	DIR	DEIONIZED WATER RETURN
	DIRC	DIRC	DEIONIZED WATER RECLAIM
	EWS	EWS	EMERGENCY EYEWASH & SHOWER
	ICW	ICW	INDUSTRIAL COLD WATER
	A	A	COMPRESSED AIR
	⊕	⊕	HIGH PURITY AIR
	DS	DS	DISTILLED WATER
	DCL	DCL	DECHLORINATED WATER
	RO	RO	REVERSE OSMOSIS WATER
	ROR	ROR	REVERSE OSMOSIS RECIRCULATED WATER
	PCW	PCW	PROCESS COLD WATER
	PGW	PGW	PROCESS GREY WATER
	NPW	NPW	NON-POTABLE WATER
	CAS	CAS	CLEAN AIR SUPPLY
	CDA	CDA	CLEAN DRY AIR
	CO2	CO2	CARBON DIOXIDE
	O2	O2	OXYGEN
	N2	N2	NITROGEN
	H2	H2	HYDROGEN
	LN2	LN2	LIQUID NITROGEN
	A	A	ARGON
	N2O	N2O	NITROUS OXIDE
	CHL	CHL	CHLORINE
	CBG	CBG	CARBONEOUS
	LP	LP	LIQUIFIED PETROLEUM
	SR	SR	SILVER RECOVERY
	PD	PD	PUMPED DISCHARGE
	VPD	VPD	VACUUM PUMP DISCHARGE
	DA	DA	DENTAL AIR
	MA	MA	MEDICAL AIR
	MVE	MVE	MEDICAL EVACUATION EXHAUST
	PV	PV	PROCESS VACUUM
	CV	CV	HOUSECLEANING VACUUM
	AV	AV	ALUMINUM DUST VACUUM
	DV	DV	DENTAL VACUUM
	LV	LV	LAB VACUUM
	EV	EV	EVACUATION VACUUM
	WMV	WMV	WET MOP VACUUM
	DMV	DMV	DRY MOP VACUUM
	ATV	ATV	ATMOSPHERIC VENT
	SL	SL	SLURRY LINE

FIRE PROTECTION SYMBOLS	
	FIRE PROTECTION
	FIRE SPRINKLER
	DRY PIPE SPRINKLER
	PRE-ACTION SYSTEM
	WET STANDPIPE
	DRY STANDPIPE
	COMBINATION STANDPIPE
	FIRE DEPARTMENT CONNECTION
	STANDPIPE ROOF CONNECTION
	STANDPIPE OUTLET
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	FLOW SWITCH
	SUPERVISED SHUT-OFF VALVE
	DRY PIPE VALVE ASSEMBLY
	PRE-ACTION VALVE ASSEMBLY

PLUMBING SYMBOLS	
	THRUST BLOCK
	CLEANOUT
	WALL CLEANOUT
	FLOOR CLEANOUT
	CLEANOUT TO GRADE
	FLOOR DRAIN
	AREA DRAIN
	CATCH BASIN
	FLOOR SINK
	ROOF DRAIN
	OVERFLOW DRAIN
	DOWNSPOUT NOZZLE
	TRENCH DRAIN
	MAN-HOLE (INVERTS IN & OUT)

SYMBOLS			
	ACCESS PANEL		CAP EXISTING / CAP FOR FUTURE
	BELOW GRADE / FLOOR		RELOCATE EXISTING
	CONNECT TO EXISTING		REMOVE EXISTING
	EXISTING TO REMAIN		NOTE

PLUMBING PIPING			
	W	W	WASTE (ABOVE GRADE OR FLOOR)
	W	W	WASTE (BELOW GRADE OR FLOOR)
	PW	PW	PUMPED WASTE (ABOVE GRADE OR FLOOR)
	PW	PW	PUMPED WASTE (BELOW GRADE OR FLOOR)
	SD	SD	STORM DRAIN (ABOVE GRADE OR FLOOR)
	SD	SD	STORM DRAIN (BELOW GRADE OR FLOOR)
	PSD	PSD	PUMPED STORM DRAIN (ABOVE GRADE OR FLOOR)
	PSD	PSD	PUMPED STORM DRAIN (BELOW GRADE OR FLOOR)
	OD	OD	OVERFLOW DRAIN (ABOVE GRADE OR FLOOR)
	OD	OD	OVERFLOW DRAIN (BELOW GRADE OR FLOOR)
	D	D	DRAIN (CONDENSATE/INDIRECT)
	V	V	VENT
	HW	HW	HOT WATER
	RHW	RHW	RECIRCULATING HOT WATER
	TW	TW	TEMPERED WATER
	HTW	HTW	140° HOT WATER
	RHTW	RHTW	140° RECIRCULATING HOT WATER
	RTW	RTW	RECIRCULATING TEMPERED WATER
	LP	LP	LOW PRESSURE COLD WATER
	LP	LP	LOW PRESSURE HOT WATER
	LP	LP	LOW PRESSURE RECIRCULATING HOT WATER
	HP	HP	HIGH PRESSURE COLD WATER
	HP	HP	HIGH PRESSURE HOT WATER
	HP	HP	HIGH PRESSURE RECIRCULATING HOT WATER
	DWS	DWS	DRINKING WATER SUPPLY (CHILLED)
	DWR	DWR	DRINKING WATER RETURN (CHILLED)
	IW	IW	ICE WATER
	WW	WW	WELL WATER
	ICW	ICW	INDUSTRIAL COLD WATER
	G	G	NATURAL GAS (LOW PRESSURE)
	MPG	MPG	NATURAL GAS (MEDIUM PRESSURE)
	GV	GV	GAS VENT
	PT	PT	PNEUMATIC TUBE
	SHWS	SHWS	SOLAR HOT WATER SUPPLY
	SHWR	SHWR	SOLAR HOT WATER RETURN

MISC. VALVES & COCKS	
	SHUT-OFF VALVE
	GLOBE VALVE
	SHUT-OFF VALVE W/ TAMPER SWITCH
	TRIPLE DUTY VALVE
	CHECK VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	BALANCING VALVE
	FLOW CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	AIR VENT (MANUAL/AUTOMATIC)
	RELIEF VALVE
	STRAINER
	STRAINER W/ BLOWDOWN
	DRAIN VALVE
	HOSE BIBB
	WALL HYDRANT
	GROUND HYDRANT
	STEAM TRAP
	PRESSURE GAUGE
	PRESSURE/TEMPERATURE TEST PLUG
	THERMOMETER
	FLOW SWITCH
	TEMPERATURE TRANSMITTER
	SHOCK ARRESTOR
	VACUUM BREAKER
	WATER FLOW METER
	REDUCED PRESSURE BACKFLOW ASSEMBLY
	DOUBLE CHECK VALVE ASSEMBLY
	DOUBLE CHECK DETECTOR ASSEMBLY
	BACKWATER VALVE
	UNDERGROUND GATE VALVE W/BOX
	UNDERGROUND GATE W/POST INDICATOR
	OUTSIDE SCREW & YOKE
	Y PATTERN BOILER BLOWDOWN VALVE
	NON-RETURN STOP VALVE
	QUICK OPENING BOILER BLOWDOWN VALVE

MISC. FITTINGS & SYMBOLS	
	DIRECTION OF FLOW
	DIRECTION OF SLOPE
	PIPE SLEEVE
	REDUCER
	ANCHOR
	ELBOW (90°)
	ELBOW (45°)
	TEE
	CROSS
	PIPING CONNECTIONS
	JOINT OR COUPLING POINT
	UNION
	FLANGED CONNECTION
	CAP
	PLUG OR BLIND FLANGE
	RISER
	ELBOW UP
	ELBOW DOWN
	TEE UP
	TEE DOWN
	HORIZONTAL TEE
	FLEXIBLE CONNECTION
	BALL JOINT
	MECHANICAL COUPLING

**GENERAL NOTE**  
THIS IS A STANDARD LEGEND SHEET. THEREFORE, SOME SYMBOLS MAY APPEAR ON THIS SHEET THAT DO NOT APPEAR ON THE DRAWINGS.

PLUMBING DRAWING INDEX	
SHEET NO	DESCRIPTION
P001	SYMBOLS, LEGENDS, AND ABBREVIATIONS - PLUMBING
P002	EQUIPMENT SCHEDULE - PLUMBING
P100	DEMO UNDERGROUND PLAN - PLUMBING
P101	DEMO FIRST FLOOR PLAN - PLUMBING
P102	DEMO SECOND FLOOR PLAN - PLUMBING
P200	UNDERGROUND PLAN - PLUMBING
P201	FIRST FLOOR PLAN - PLUMBING
P202	SECOND FLOOR PLAN - PLUMBING
P501	DETAILS - PLUMBING

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college of marin - indian valley campus bldg. 11 renovation

novato, california  
project number: 17-1095

scale: NONE  
date: 16/02/2017

**SYMBOLS, LEGENDS AND ABBREVIATIONS PLUMBING**



### PLUMBING DESIGN CRITERIA

DOMESTIC WATER PIPING SYSTEM:  
BASIS OF DESIGN: 2016 CALIFORNIA PLUMBING CODE, APPENDIX A 'RECOMMENDED RULES FOR SIZING THE WATER SUPPLY SYSTEM', PIPING SIZED ON 3 PSI/100 FT. DROP, VELOCITIES NOT TO EXCEED 6 FT./SEC. (COLD WATER) AND NOT TO EXCEED 5 FT./SEC. (HOT WATER).  
WASTE AND VENT PIPING SYSTEM:  
BASIS OF DESIGN: 2016 CALIFORNIA PLUMBING CODE, CHAPTER 7, 'SANITARY DRAINAGE'.  
ALL WASTE PIPING SIZED AT 1/4"/FT. SLOPE UNLESS OTHERWISE NOTED.

### MISCELLANEOUS PLUMBING EQUIPMENT SCHEDULE

TAG NUMBER	LOCATION	DESCRIPTION	ELECTRICAL	NOTES
TP-1	LEVEL 2 RESTROOM	ELECTRONIC TRAP PRIMER 1-16 OPENING MANIFOLD CALIBRATED FOR EQUAL WATER DISTRIBUTION, 3/4" INLET CONNECTION BASED ON: PRECISION PLUMBING PRODUCTS PRIMETIME ELECTRONIC TRAP PRIMER, PT SERIES	120 V, 1 PH	

### PLUMBING FIXTURE SCHEDULE

TAG NUMBER	FIXTURE TYPE	ROUGH-IN SIZE (INCHES)					GPM/GPF	ELEC. CONNECTION	DESCRIPTION	NOTES
		W	V	CW	HW	TW				
WC-1	WATER CLOSET	3	2	1	-	-	1.6/1.1	N	MANUAL DUAL FLUSH VALVE, ADA COMPLIANT	
U-1	URINAL	2	1-1/2	3/4	-	-	0.125	N	BATTERY POWERED SENSOR ACTIVATED FLUSHVALVE, ADA COMPLIANT.	
L-1	LAVATORY	2	1-1/2	1/2	1/2	-	0.5	N	COUNTERTOP, AUTOMATIC FAUCET	
S-1	SINK	2	1-1/2	3/4	3/4	-	1.75	N	COUNTERTOP, MANUAL FAUCET	
DF-1	DRINKING FOUNTAIN	2	1-1/2	3/4	3/4	-	1.1	Y	WALL MOUNTED, WITH BOTTLE FILLING STATION	CHILLER UNIT

### PLUMBING GENERAL NOTES

- REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS FOR THIS PROJECT. IN CASE OF CONFLICT BETWEEN DRAWINGS AND SPECIFICATIONS, THE MOST STRINGENT SHALL GOVERN.
- THE DESIGN ASSUMES ALL EXISTING PLUMBING EQUIPMENT AND SYSTEMS ARE FUNCTIONING CORRECTLY. CONTRACTOR SHALL PERFORM TESTING OF EXISTING SYSTEMS AND SUBMIT A DETAILED EQUIPMENT TESTING REPORT TO CLIENT AND ENGINEER OF RECORD.
- ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO APPROVAL BY THE OWNER, ARCHITECT, AND ENGINEER OF RECORD. ANY PORTION OF THE WORK OR EQUIPMENT FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE SAFETY OF ALL PERSONS ON OR ABOUT THE CONSTRUCTION SITE IN ACCORDANCE WITH APPLICABLE LAWS AND CODES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL TRADE PERMITS AND INSPECTION.
- THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE, CHECK EXISTING INSTALLATIONS AND SYSTEMS RELATED TO HIS WORK AND SHALL, IN THE BID PROPOSAL, INCLUDE ALL LABOR AND MATERIAL REQUIRED TO PROVIDE A COMPLETE SYSTEM.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN PIPING AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER AND SUBJECT TO ARCHITECT'S REVIEW.
- CONTRACTOR SHALL PROVIDE ALL MISCELLANEOUS STEEL AND COMPONENTS REQUIRED TO SUPPORT PIPE, PLUMBING/FIRE PROTECTION EQUIPMENT, AND ELECTRONIC/CONTROL PANELS RELATED TO PLUMBING/FIRE PROTECTION EQUIPMENT. PROVIDE FLOOR SUPPORT COMPONENTS, HANGERS, AND SEISMIC RESTRAINTS AS REQUIRED.
- FABRICATE AND INSTALL ALL PIPING PER CURRENT CODE REQUIREMENTS.
- CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION.
- EXISTING INFORMATION SHOWN ON FLOOR PLANS IS FROM PLUMBING RECORD DRAWINGS AND FIELD INVESTIGATION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD BEFORE COMMENCEMENT OF WORK. THE CONTRACTOR IS REQUIRED TO REPORT TO THE ARCHITECT DISCREPANCIES OR INCONSISTENCIES BETWEEN THE SPECIFIED DESIGN AND EXISTING CONDITIONS FOR CLARIFICATION PRIOR TO COMMENCEMENT OF THE WORK. ABSOLUTE ACCURACY OF THE DRAWINGS CAN NOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATION OF EXISTING EQUIPMENT, PIPING, ETC., IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS. REPORT TO ARCHITECT AND ENGINEER OF RECORD, IN WRITING, CONDITIONS WHICH WILL PREVENT PROPER PROVISION OF THE WORK SHOWN ON THESE DOCUMENTS.
- DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES, AND PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS. INSTALL ALL EQUIPMENT AND PIPING TO BEST SUIT FIELD CONDITIONS AFTER COORDINATION WITH THE WORK OF OTHER TRADES. CONTRACTOR SHALL COMPLETE THE WORK WITH MINIMUM INTERFERENCE WITH EXISTING SYSTEMS. ANY SHUTDOWN OF THE EXISTING SYSTEM SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR, THE SCHOOL REPRESENTATIVE, AT LEAST TWO WEEKS IN ADVANCE.
- PROTECT ALL ACTIVE UTILITIES, INFRASTRUCTURE, AND EQUIPMENT WITHIN PROJECT AREA DURING DEMOLITION AND CONSTRUCTION PHASES.
- REFER TO ARCHITECTURAL DRAWINGS AND MARSHALL & ASSOCIATES FOR EXACT LOCATIONS AND ELEVATIONS OF ALL PLUMBING FIXTURES.
- THE SANITARY DRAINAGE SYSTEM SHALL BE TESTED IN ACCORDANCE WITH 2016 CPC, SECTION 712.00 "TESTING".
- CLEANOUTS SHALL BE INSTALLED IN ACCORDANCE WITH 2016 CPC, SECTION 707.0 AND 719.0 "CLEANOUTS".
- ALL COLD AND HOT WATER SHALL BE INSULATED.
- ALL SLOPES AND INVERT ELEVATIONS SHALL BE CHECKED BEFORE ANY PIPING IS INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED.
- MAKE PROPER WASTE, VENT, HOT AND COLD WATER CONNECTION TO ALL PLUMBING FIXTURES AND EQUIPMENT, EVEN THOUGH ALL MISCELLANEOUS CONNECTIONS, OFFSETS AND ELBOWS MAY NOT BE SHOWN.
- ALL PIPE PENETRATIONS THROUGH SLAB, FLOOR OR WALL SHALL BE SEALED.
- CONTRACTOR SHALL PROVIDE ADDITIONAL WATER DROPS IN WALL WHEN HORIZONTAL RUN IN WALL CONFLICTS WITH OTHER PIPES IN WALL.
- ALL PLUMBING DEVICES AT HARD LID CEILINGS MUST BE ACCESSIBLE FOR MAINTENANCE AND AS REQUIRED BY CODE.
- CONTRACTOR SHALL PROVIDE SCHOOL WITH A COMPLETE AND ACCURATE SET OF AS-BUILT DRAWINGS AT COMPLETION OF THE PROJECT.
- OFFSETS IN VERTICAL DRAINAGE SHALL BE MADE AT 45 WHEREVER POSSIBLE.

### WATER HEATER SCHEDULE

TAG NUMBER	DESCRIPTION	LOCATION	SERVICE	TYPE	ELECTRICAL					MANUFACTURER & MODEL	NOTES
					NO. OF ELEMENTS	TOTAL KW	KW PER ELEMENT	FLA	VOLT/ PHASE		
EWH-1-1	ELECTRIC WATER HEATER	L1 RESTROOM	DOMESTIC HOT WATER	TANKLESS/INSTANTANEOUS	1	5.54	5.54	20	277/1	CHRONOMITE M-20L	ACTIVATION FLOW RATE: 0.35 GPM
EWH-1-2	ELECTRIC WATER HEATER	L1 RESTROOM	DOMESTIC HOT WATER	TANKLESS/INSTANTANEOUS	1	5.54	5.54	20	277/1	CHRONOMITE M-20L	ACTIVATION FLOW RATE: 0.35 GPM
EWH-2-1	ELECTRIC WATER HEATER	L2 KITCHENETTE	DOMESTIC HOT WATER	TANKLESS/INSTANTANEOUS	1	16.05	16.05	58	277/1	CHRONOMITE R-58L	ACTIVATION FLOW RATE: 0.35 GPM
EWH-2-2	ELECTRIC WATER HEATER	L2 RESTROOM	DOMESTIC HOT WATER	TANKLESS/INSTANTANEOUS	1	5.54	5.54	20	277/1	CHRONOMITE M-20L	ACTIVATION FLOW RATE: 0.35 GPM
EWH-2-3	ELECTRIC WATER HEATER	L2 RESTROOM	DOMESTIC HOT WATER	TANKLESS/INSTANTANEOUS	1	5.54	5.54	20	277/1	CHRONOMITE M-20L	ACTIVATION FLOW RATE: 0.35 GPM

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novato, california  
project number: 17-1095

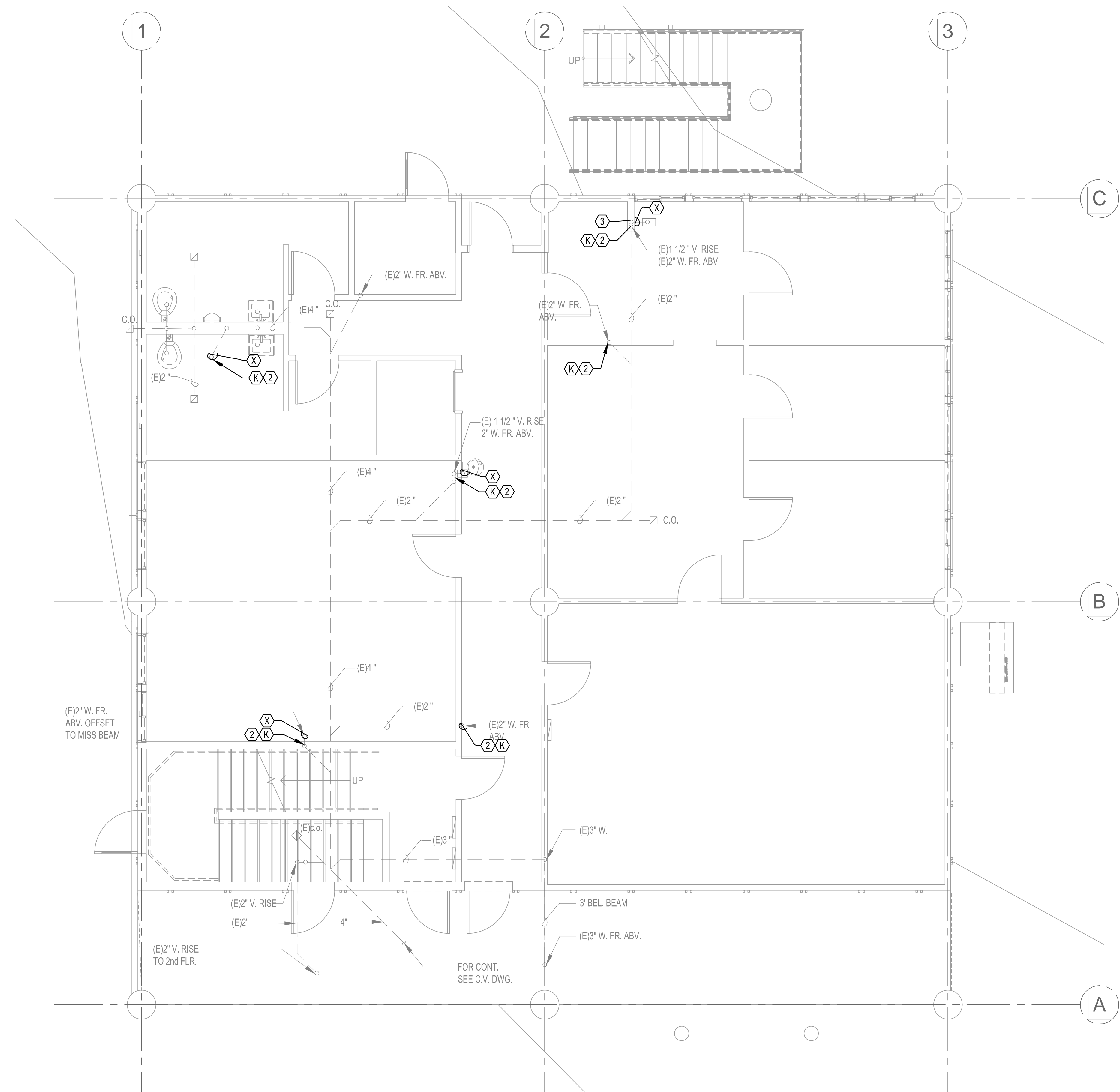
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EQUIPMENT SCHEDULE  
PLUMBING



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- GENERAL NOTES:**
- A. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE PRIOR TO SUBMITTING A BID. DUE TO THE NATURE OF THE PROJECT AND THE STATE OF THE EXISTING BUILDING, IT IS IMPOSSIBLE TO COMPLETELY RELATE THE SCOPE OF THE DEMOLITION REQUIRED TO THE CONTRACTOR THROUGH THE CONTRACT DOCUMENTS. FAILURE TO VISIT THE SITE WILL NOT RELIEVE THE CONTRACTOR OF DEMOLITION RESPONSIBILITIES UNDER THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND COORDINATE THE EXACT CONTENT OF DEMOLITION NECESSARY TO PROVIDE A RENOVATED AND UPGRADED SPACE AND TO FACILITATE NEW WORK.
  - B. INFORMATION REGARDING THE EXISTING CONDITIONS WAS GATHERED FROM THE ALL AVAILABLE EXISTING DRAWINGS AND SURVEY. THERE ARE NO GUARANTEES AS TO THE ACCURACY OF THIS INFORMATION AND IT IS OFFERED FOR INFORMATION ONLY.
  - C. VERIFY EXISTING LOCATIONS OF EQUIPMENT, PIPING AND SYSTEM COMPONENTS PRIOR TO DEMOLITION. IF EXISTING CONDITIONS ARE DIFFERENT THAN WHAT IS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH WORK.
  - D. MINIMIZE DISTURBANCE AND/OR DAMAGE TO EXISTING FINISHED SURFACES AND FINISHES. WHERE DEMOLITION OF PLUMBING SYSTEM COMPONENTS DAMAGES EXISTING SURFACE TO REMAIN, RESTORE THOSE SURFACES TO THE SAME CONDITION AS THE ADJACENT SURFACES. RESTORATION MUST BE PERFORMED BY WORKMEN SKILLED IN PERFORMING SUCH WORK. ALL FIRE AND SMOKE RATINGS SHALL BE RETAINED AS PART OF THE REPAIRS AND PATCH/SEAL HOLES WEATHERTIGHT WHERE REQUIRED. ALL PATCHES AND REPAIRS SHALL BE SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT.
  - E. ALL AREAS OF EGRESS SHALL BE KEPT OPEN AND FREE FROM DEBRIS AT ALL TIMES.
  - F. DO NOT REMOVE ITEMS SUPPORTING OTHER ITEMS WITHOUT PROVIDING TEMPORARY OR PERMANENT SUPPORT AS REQUIRED. SEE DRAWINGS FOR AREAS AND EXTENT OF DEMOLITION. PROPERLY SUPPORT ALL EXISTING ITEMS TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SUPPORTS FOR AFFECTED ITEMS.
  - G. VERIFY EXTENT OF PIPING, EQUIPMENT, COMPONENTS AND CONTROLS TO BE RETAINED OR REUSED PRIOR TO THE DEMOLITION OF SPECIFIC SYSTEM. PROTECT ITEMS WHICH ARE TO BE REUSED ON SITE TO MINIMIZE POS-CONSTRUCTION REPAIRS. ANY ITEMS WHICH ARE DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
  - H. REMOVE EQUIPMENT OWNER WISHES TO RETAIN AND DELIVER TO THE LOCATION DESIGNATED BY THE OWNER. REMOVE PROMPTLY FROM THE SITE. ALL MATERIALS AND EQUIPMENT INDICATED FOR REMOVAL WHICH ARE NOT SPECIFIED FOR REUSE, STORAGE, OR RETAINED BY THE OWNER.
  - I. VERIFY ALL EXISTING STRUCTURAL CONDITIONS AND NOTIFY STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PENETRATING EXISTING BUILDING STRUCTURAL SYSTEMS.
  - J. THE PLUMBING CONTRACTOR SHALL REFER TO DRAWINGS OF THE CONTRACT DOCUMENTS FOR DEMOLITION OF PLUMBING SYSTEM COMPONENTS INCLUDED IN THE PLUMBING CONTRACT. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES OR QUESTIONS PERTAINING TO EXTENT OF WORK PRIOR TO BIDDING.
  - K. PLUMBING CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING WORK WITH ALL OTHER CONTRACTORS DUE TO DEMOLITION WORK.

- NOTES:**
- 1. EXISTING FIXTURE TO BE REMOVED, CAP EXISTING CONNECTIONS AT THE WALL FOR CONNECTION TO NEW FIXTURES
  - 2. DEMO EXISTING WASTE PIPING WITHIN THE WALL AND CAP AT FINISHED FLOOR
  - 3. DEMO EXISTING PIPING WITHIN THE WALL

1 DEMO UNDERGROUND PLAN - PLUMBING SCALE: 1/4" = 1'-0"

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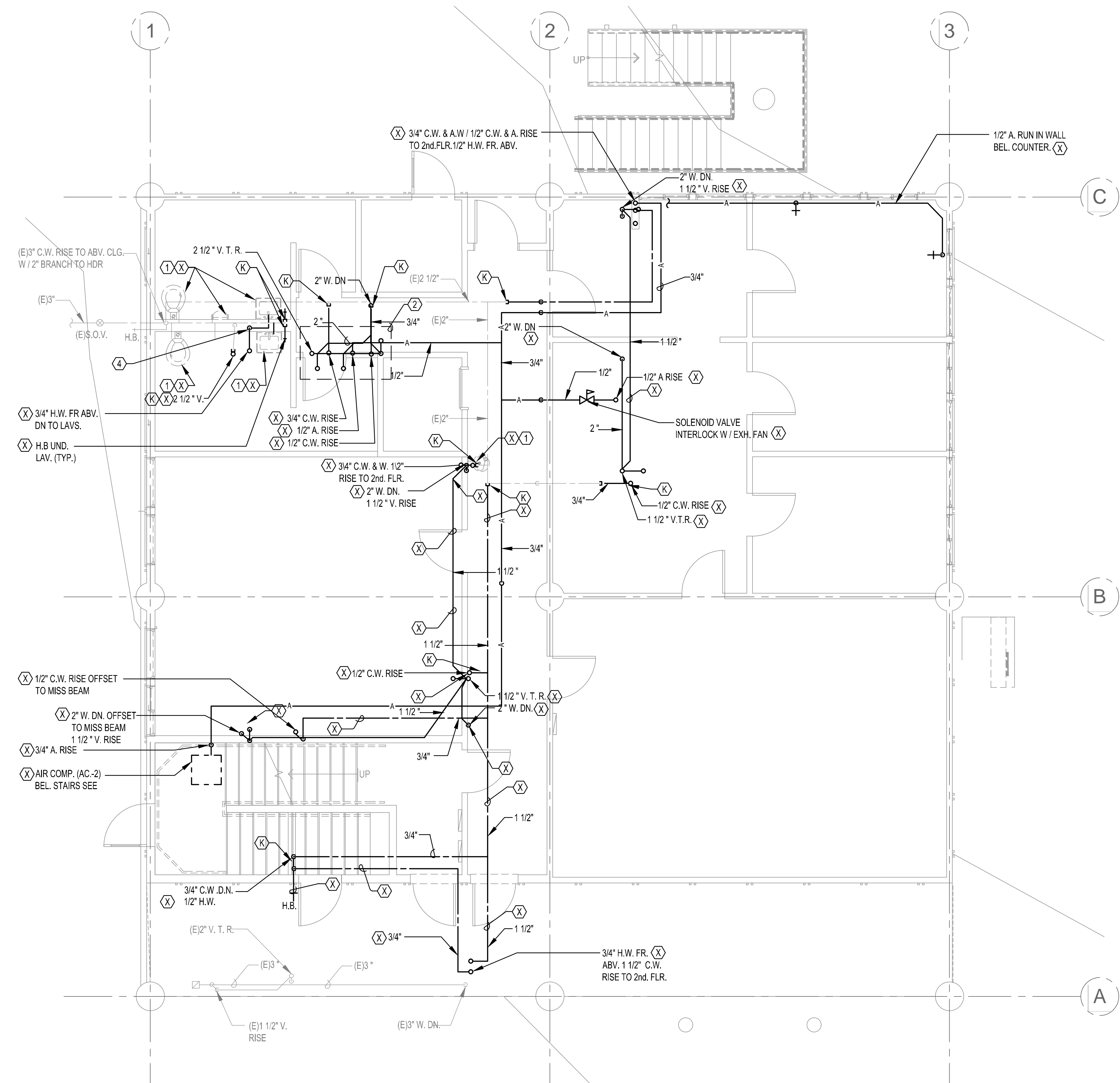
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DEMO UNDERGROUND PLAN - PLUMBING

Date: 3/10/17 Time: 6:02pm File: P:\2017\17-1095 - College of Marin IVC Bldg 11 Renovation\01 Dwg\CAD\17-1095\_P101.dwg User: andrew.mcgonn

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- GENERAL NOTES:**
- A. EXISTING PIPING & FIXTURES TO BE REUSED UNLESS OTHERWISE NOTED.
  - B. DEMOLISH ENTIRE AIR COMPRESSOR SYSTEM INCLUDING ASSOCIATED PIPING AND EQUIPMENT.
  - C. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE PRIOR TO SUBMITTING A BID. DUE TO THE NATURE OF THE PROJECT AND THE STATE OF THE EXISTING BUILDING, IT IS IMPOSSIBLE TO COMPLETELY RELATE THE SCOPE OF THE DEMOLITION REQUIRED TO THE CONTRACTOR THROUGH THE CONTRACT DOCUMENTS. FAILURE TO VISIT THE SITE WILL NOT RELIEVE THE CONTRACTOR OF DEMOLITION RESPONSIBILITIES UNDER THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND COORDINATE THE EXACT CONTENT OF DEMOLITION NECESSARY TO PROVIDE A RENOVATED AND UPGRADED SPACE AND TO FACILITATE NEW WORK.
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  - F. MINIMIZE DISTURBANCE AND/OR DAMAGE TO EXISTING FINISHED SURFACES AND FINISHES. WHERE DEMOLITION OF PLUMBING SYSTEM COMPONENTS DAMAGES EXISTING SURFACE TO REMAIN, RESTORE THOSE SURFACES TO THE SAME CONDITION AS THE ADJACENT SURFACES. RESTORATION MUST BE PERFORMED BY WORKMEN SKILLED IN PERFORMING SUCH WORK. ALL FIRE AND SMOKE RATINGS SHALL BE RETAINED AS PART OF THE REPAIRS AND PATCH/SEAL HOLES WEATHERTIGHT WHERE REQUIRED. ALL PATCHES AND REPAIRS SHALL BE SUBJECT TO REVIEW AND APPROVAL OF THE ARCHITECT.
  - G. ALL AREAS OF EGRESS SHALL BE KEPT OPEN AND FREE FROM DEBRIS AT ALL TIMES.
  - H. DO NOT REMOVE ITEMS SUPPORTING OTHER ITEMS WITHOUT PROVIDING TEMPORARY OR PERMANENT SUPPORT AS REQUIRED. SEE DRAWINGS FOR AREAS AND EXTENT OF DEMOLITION. PROPERLY SUPPORT ALL EXISTING ITEMS TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SUPPORTS FOR AFFECTED ITEMS.
  - I. VERIFY EXTENT OF PIPING, EQUIPMENT, COMPONENTS AND CONTROLS TO BE RETAINED OR REUSED PRIOR TO THE DEMOLITION OF SPECIFIC SYSTEM. PROTECT ITEMS WHICH ARE TO BE REUSED ON SITE TO MINIMIZE POST-CONSTRUCTION REPAIRS. ANY ITEMS WHICH ARE DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
  - J. REMOVE EQUIPMENT OWNER WISHES TO RETAIN AND DELIVER TO THE LOCATION DESIGNATED BY THE OWNER. REMOVE PROMPTLY FROM THE SITE. ALL MATERIALS AND EQUIPMENT INDICATED FOR REMOVAL WHICH ARE NOT SPECIFIED FOR REUSE, STORAGE, OR RETAINED BY THE OWNER.
  - K. VERIFY ALL EXISTING STRUCTURAL CONDITIONS AND NOTIFY STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PENETRATING EXISTING BUILDING STRUCTURAL SYSTEMS.
  - L. THE PLUMBING CONTRACTOR SHALL REFER TO DRAWINGS OF THE CONTRACT DOCUMENTS FOR DEMOLITION OF PLUMBING SYSTEM COMPONENTS INCLUDED IN THE PLUMBING CONTRACT. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES OR QUESTIONS PERTAINING TO THE EXTENT OF WORK PRIOR TO BIDDING.
  - M. PLUMBING CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING WORK WITH ALL OTHER CONTRACTORS DUE TO DEMOLITION WORK.

- NOTES:**
- 1. EXISTING FIXTURE TO BE REMOVED. CAP EXISTING CONNECTIONS AT THE WALL FOR CONNECTION TO NEW FIXTURES
  - 2. DEMO EXISTING DOMESTIC WATER AND WASTE PIPING WITHIN THE WALL AND CAP AT FINISHED FLOOR
  - 3. DEMO EXISTING PIPING WITHIN THE WALL
  - 4. DEMO ALL HW PIPING WITHIN THE WALL

**1**  
P101 **DEMO FIRST FLOOR PLAN - PLUMBING**  
SCALE: 1/4" = 1'-0"

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novato, california  
project number: 17-1095

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date: 16/02/2017

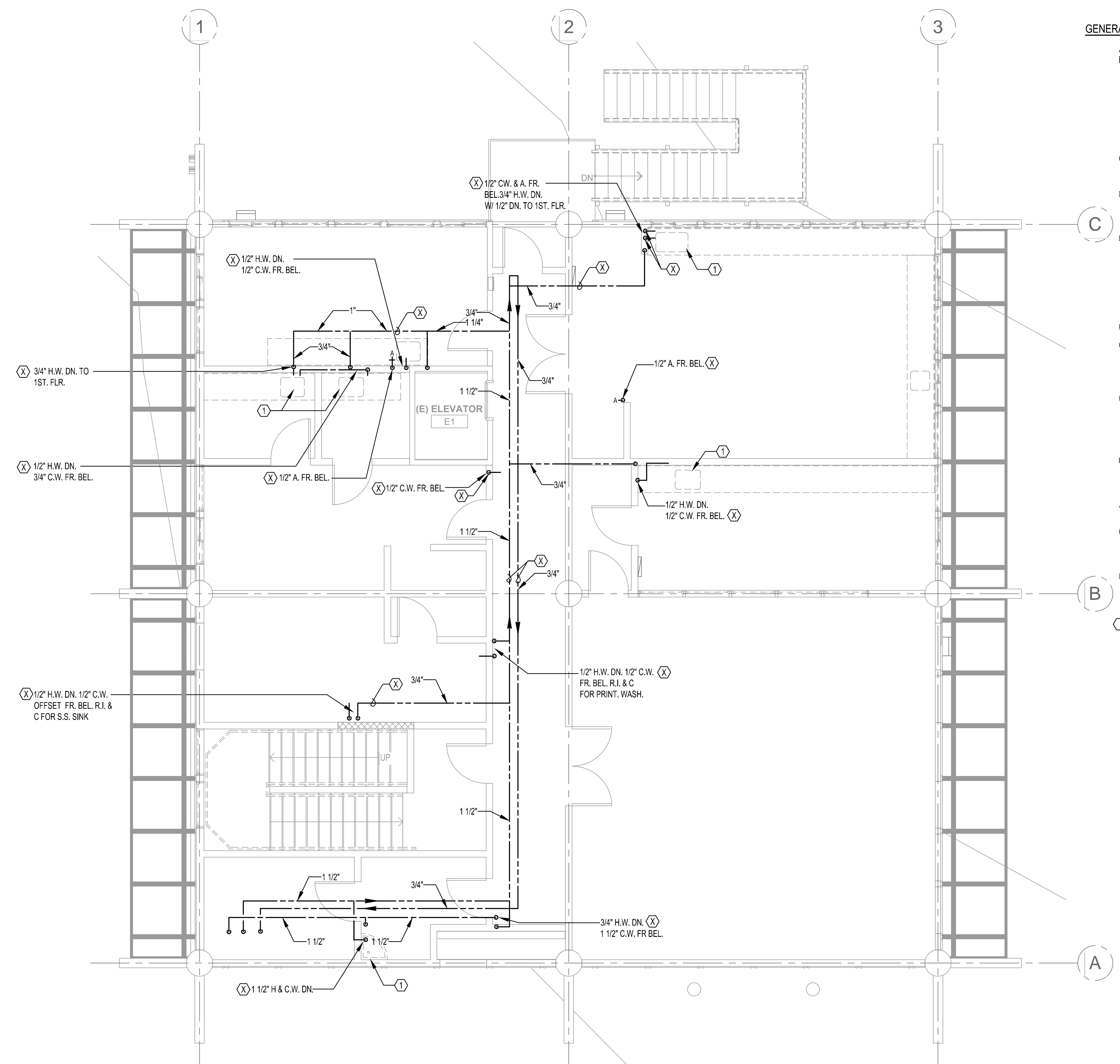
**DEMO FIRST FLOOR PLAN - PLUMBING**

**P101**



Date: 3/10/17 Time: 5:24pm File: P:\2017\17-1095 - College of Marin VC Bldg 11 - Renovation\01 Dwg\CAD\17-1095\_P102.dwg User: andrew.mcgonn

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**GENERAL NOTES:**

- A. ALL PIPING AND FIXTURES ON THIS FLOOR DEMOLISHED.
- B. THE CONTRACTOR SHALL THOROUGHLY EXAMINE THE SITE PRIOR TO SUBMITTING A BID. DUE TO THE NATURE OF THE PROJECT AND THE STATE OF THE EXISTING BUILDING, IT IS IMPOSSIBLE TO COMPLETELY RELATE THE SCOPE OF THE DEMOLITION REQUIRED TO THE CONTRACTOR THROUGH THE CONTRACT DOCUMENTS. FAILURE TO VISIT THE SITE WILL NOT RELIEVE THE CONTRACTOR OF DEMOLITION RESPONSIBILITIES UNDER THIS CONTRACT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND COORDINATE THE EXACT CONTENT OF DEMOLITION NECESSARY TO PROVIDE A RENOVATED AND UPGRADED SPACE AND TO FACILITATE NEW WORK.
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- H. VERIFY EXTENT OF PIPING, EQUIPMENT, COMPONENTS AND CONTROLS TO BE RETAINED OR REUSED PRIOR TO THE DEMOLITION OF SPECIFIC SYSTEM. PROTECT ITEMS WHICH ARE TO BE REUSED ON SITE TO MINIMIZE POST-CONSTRUCTION REPAIRS. ANY ITEMS WHICH ARE DAMAGED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
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- J. VERIFY ALL EXISTING STRUCTURAL CONDITIONS AND NOTIFY STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PENETRATING EXISTING BUILDING STRUCTURAL SYSTEMS.
- K. THE PLUMBING CONTRACTOR SHALL REFER TO DRAWINGS OF THE CONTRACT DOCUMENTS FOR DEMOLITION OF PLUMBING SYSTEM COMPONENTS INCLUDED IN THE PLUMBING CONTRACT. NOTIFY THE ARCHITECT OF ALL DISCREPANCIES OR QUESTIONS PERTAINING TO EXTENT OF WORK PRIOR TO BIDDING.
- L. PLUMBING CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING WORK WITH ALL OTHER CONTRACTORS DUE TO DEMOLITION WORK.

**NOTES:**

- 1. EXISTING FIXTURES TO BE REMOVED

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

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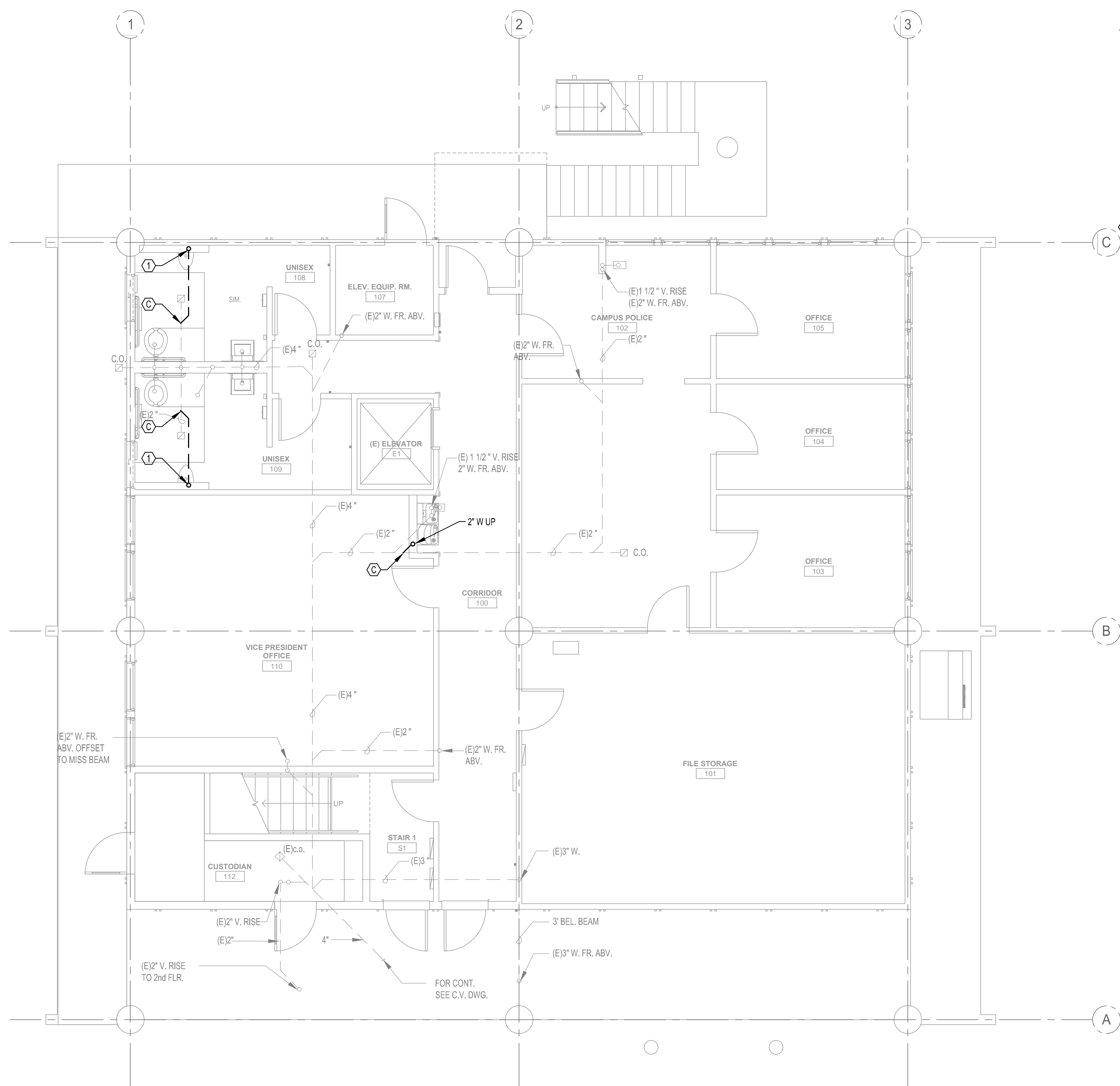
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**DEMO SECOND FLOOR PLAN - PLUMBING**

**P102**

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- GENERAL NOTES:**
- A. PROVIDE TERMINAL CONNECTION FOR EACH NEW PIECE OF EQUIPMENT AS SPECIFIED BY EQUIPMENT MANUFACTURER.
  - B. CONTRACTOR TO VERIFY EXISTING CONDITIONS PRIOR TO STARTING ANY WORK.
  - C. ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSET IN PIPING AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE PROJECT.
  - D. VERIFY ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS.
  - E. FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE WORK. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT AND FIXTURES.
  - F. ANY PENETRATIONS THROUGH SOUND RATED PARTITIONS SHALL BE FILLED WITH BATT INSULATION AND/OR FIRE SAFING AND SEALED TIGHT WITH ACOUSTICAL SEALANT.
  - G. ALL EQUIPMENT CONNECTION LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND BE PROVIDED PER MANUFACTURERS INSTRUCTIONS.

**NOTES:**  
 (C) 1.2' W FROM URINAL

**1 UNDERGROUND PLAN - PLUMBING**  
 SCALE: 1/4" = 1'-0"

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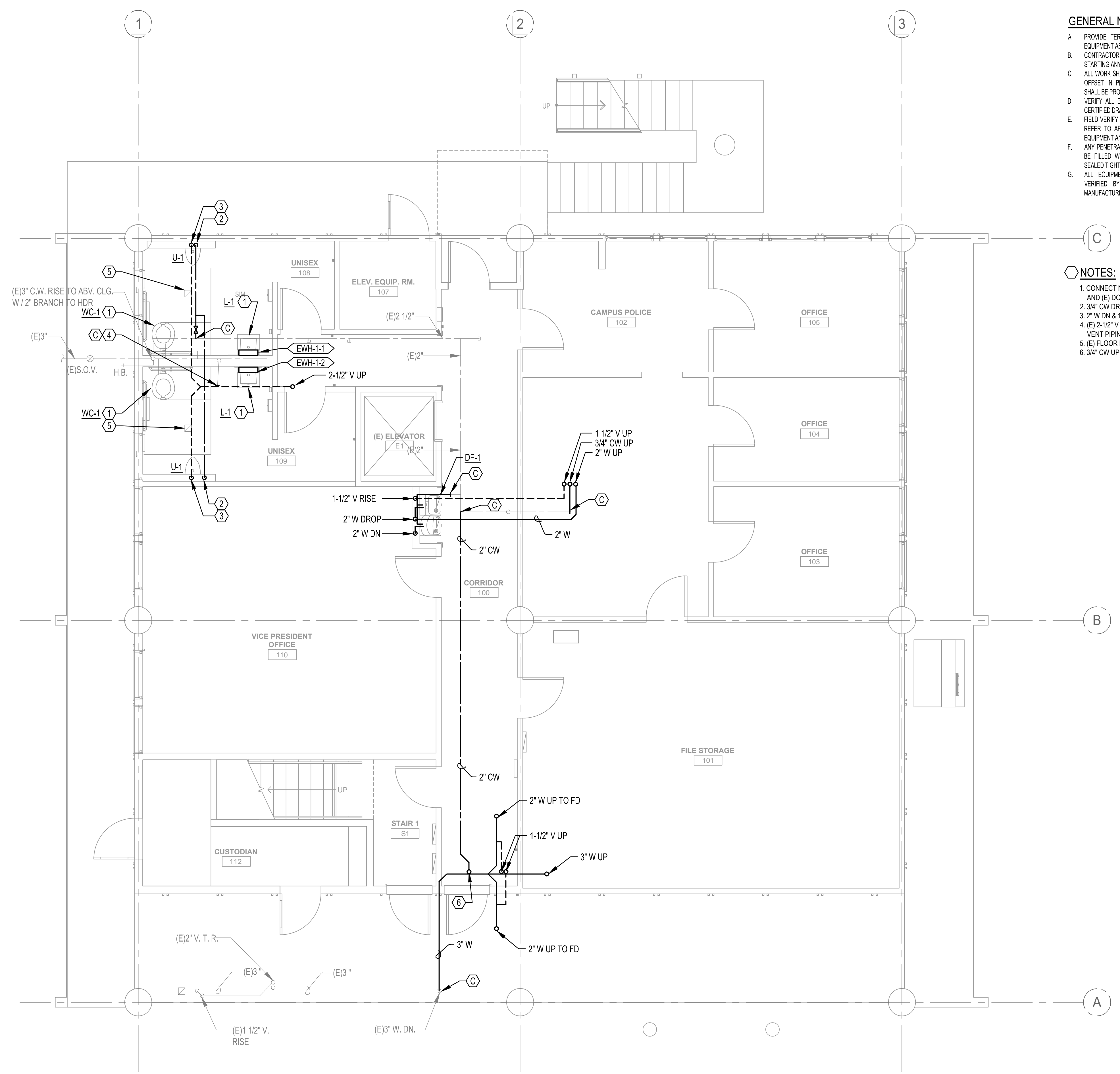
**UNDERGROUND PLANS PLUMBING**

**P200**



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  - ALL EQUIPMENT CONNECTION LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND BE PROVIDED PER MANUFACTURER'S INSTRUCTIONS.

- NOTES:**
- CONNECT NEW FIXTURES TO (E) SANITARY, (E) VENT AND (E) DOMESTIC WATER PIPING
  - 3/4\"/>

**1** FIRST FLOOR PLANS - PLUMBING  
SCALE: 1/4" = 1'-0"

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**FIRST FLOOR PLANS PLUMBING**

**P201**

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  - FIELD VERIFY AND COORDINATE ALL DIMENSIONS BEFORE WORK. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF EQUIPMENT AND FIXTURES.
  - ANY PENETRATIONS THROUGH SOUND RATED PARTITIONS SHALL BE FILLED WITH BATT INSULATION AND/OR FIRE SAFING AND SEALED TIGHT WITH ACOUSTICAL SEALANT.
  - ALL EQUIPMENT CONNECTION LOCATIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND BE PROVIDED PER MANUFACTURERS INSTRUCTIONS.

- NOTES:**
- CONNECT NEW FIXTURE TO SANITARY AND DOMESTIC WATER PIPING
  - 3/4" CW DROP
  - 2" W DROP & 1-1/2" V RISE
  - CONNECT VENT RISER TO EXISTING ROOF VENT
  - 2" FD. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION
  - TRAP PRIMER VALVE. PROVIDE ACCESS PANEL. COORDINATE LOCATION WITH ARCHITECT.
  - 2" CW DOWN
  - 1-1/2" V DN & CONNECT TO VENT PIPING IN CHASE.

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

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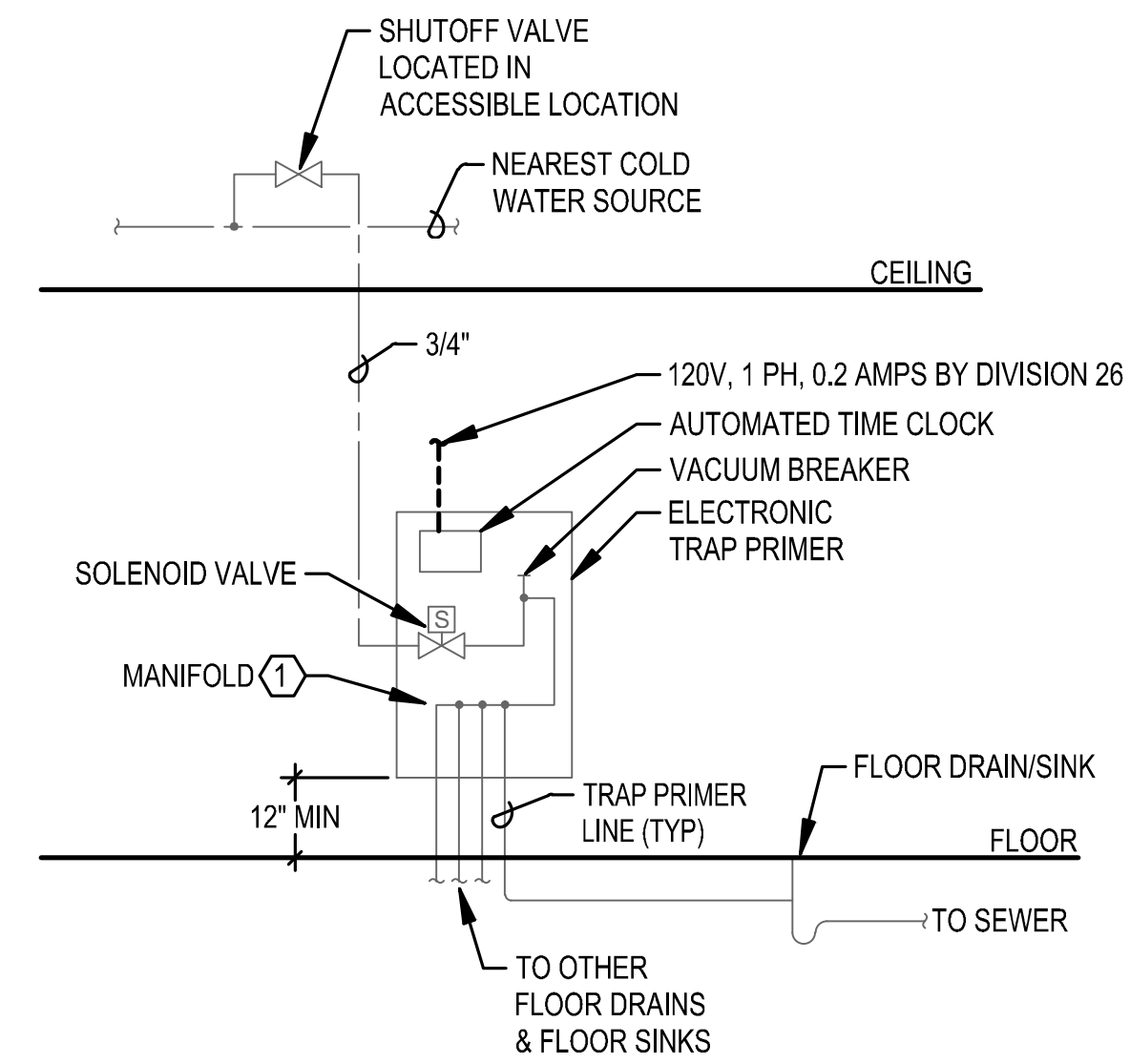
novato, california  
project number: 17-1095

scale: 1/4" = 1'-0"  
date: 16/02/2017

**SECOND FLOOR PLAN PLUMBING**

**P202**





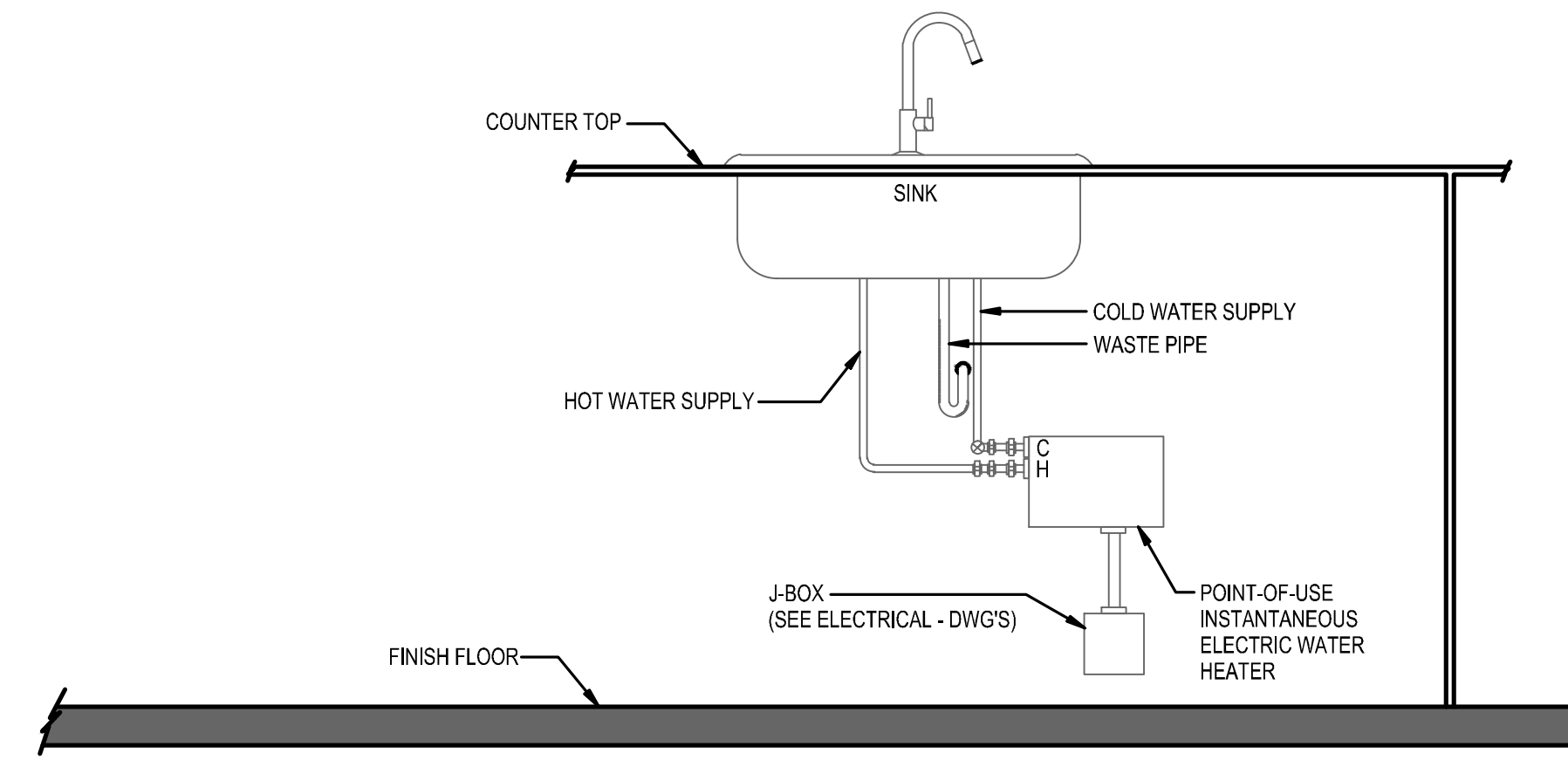
**1** ELECTRIC TRAP PRIMER DETAIL  
P501 SCALE: NONE

**GENERAL NOTES:**

- A. ALL FLOOR DRAINS, FLOOR SINKS AND SIMILAR TRAPS SHALL BE PRIMED.
- B. WHERE PRIMING VALVES ARE INSTALLED IN FINISHED ROOMS, CONCEAL IN LOCKABLE CABINET. REFER TO SPECIFICATION 22 40 00 AND PLUMBING EQUIPMENT SCHEDULE FOR TRAP PRIMER TYPE (SURFACE OR RECESSED) AND QUANTITIES.
- C. COORDINATE LOCATION OF ELECTRONIC TRAP PRIMER STATIONS WITH ELECTRICAL CONTRACTOR FOR 120V SERVICE.
- D. REFER TO SPECIFICATION 22 21 13 FOR ALLOWABLE TRAP PRIMER LINE PIPE MATERIALS.

**NOTES:**

- 1. MANIFOLD SHOWN TO SERVE 4 TRAPS, CONTRACTOR TO VERIFY QUANTITY OF TRAPS TO BE SERVED FROM EACH TRAP PRIMER STATION AND PROVIDE APPROPRIATE NUMBER OF OUTLETS ON MANIFOLD.



**2** INSTANTANEOUS ELECTRIC WATER HEATER  
P501 SCALE: NONE

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Date: 3/10/17 Time: 6:14pm File: \\pae-engineers.com\Projects\2017\17-1095 - College of Marin IVC Bldg 11 Renovation\01 Dwg\CAD\17-1095\_P501.dwg User: andrew.mcgrann

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novato, california  
project number: 17-1095

scale: **NONE**  
date: 16/02/2017

DETAILS - PLUMBING

ELECTRICAL FOR TEL-COM - NOTES	
1.	AC POWER CIRCUITS AND RECEPTACLES REQUIRED BY TEL-COM SYSTEMS ARE CALLED OUT IN THESE TEL-COM DRAWINGS. SEE ELECTRICAL DRAWINGS "E" SHEETS FOR SPECIFIC CIRCUIT REQUIREMENTS AND OTHER ITEMS IN CONTRACT. WHERE A CONFLICT EXISTS BETWEEN THE TEL-COM DRAWINGS AND "E" SHEETS, RECONCILE THROUGH RFI PROCESS.
2.	CONDUITS, JUNCTION BOXES AND OTHER TEL-COM TERMINAL BOXES SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED A PART OF THE ELECTRICAL SCOPE. THESE PATHWAYS ARE TO BE RESERVED EXCLUSIVELY FOR TEL-COM SYSTEMS AND ARE NOT TO BE SHARED WITH POWER.
3.	FLOORBOXES AND POKE THOUGHS FOR POWER/TEL DATA/AUDIOVISUAL SHOWN ON THESE DRAWINGS ARE TO BE CONSIDERED A PART ELECTRICAL SCOPE. COORDINATE FLOORBOX AND POKE THOUGH REQUIREMENTS WITH OTHER SHEET SETS. VERIFY ALL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLING.
4.	ALL CONDUITS SHOWN ARE 3/4 INCH UNLESS OTHERWISE NOTED. NO CONDUIT PATHWAY SHALL EXCEED THREE NINETY DEGREE BENDS BETWEEN JUNCTION BOXES. ALL CONDUIT SHALL BE METALLIC. FLEXIBLE CONDUIT SHALL NOT BE USED UNLESS APPROVED BY THE TEL-COM CONSULTANT.
5.	CONDUITS SHALL BE TERMINATED WITH JUNCTION BOXES, PULL-BOXES OR TERMINAL CABINETS AT BOTH ENDS, UNLESS OTHERWISE NOTED. CONDUITS TERMINATED AS "STUBS" SHOULD BE DE-BURRED AND FITTED WITH BUSHINGS.
6.	MAINTAIN A MINIMUM 12 INCHES OF SEPARATION BETWEEN TEL-COM CONDUITS AND PARALLEL AC POWER CONDUITS. AC POWER CONDUITS CROSSING TEL-COM CONDUITS SHOULD DO SO AT PERPENDICULAR NINETY-DEGREE ANGLES. NOTIFY TEL-COM CONSULTANT IF PARALLEL AC POWER RUNS ARE UNAVOIDABLE.
7.	TEL-COM EQUIPMENT AND ELECTRICAL OUTLETS ADJACENT TO JUNCTION BOXES SHALL BE SERVED BY 120-VOLT AC CIRCUITS, WHICH ARE DEDICATED SOLELY FOR TEL-COM USE. ALL CIRCUITS SHALL HAVE DEDICATED GROUNDED (I.E. NO COMMON "ROUND-HOUSE NEUTRAL" CONDUCTORS) CONDUCTORS AND INSULATED EQUIPMENT GROUNDS.
8.	NO INDUCTIVE LOADS SUCH AS MOTORS AND BALLAST LIGHTING ARE TO BE SERVED BY AC POWER CIRCUITS INTENDED FOR TEL-COM USE. NOTIFY THE GENERAL CONTRACTOR IN THE EVENT OF A CONFLICT WITH THE PANELBOARD SCHEDULE.
9.	PROVIDE PULL STRINGS IN TEL-COM CONDUITS LABELED AT TERMINATION BOXES INDICATING DESTINATION AT OPPOSITE END.
10.	MARK AND COLOR-CODE JUNCTION BOXES AND TERMINAL CABINETS WITH THEIR ID NUMBER ON THE INSIDE OF THE BOX FACING THE ROOM, SUCH THAT THEY REMAIN IDENTIFIABLE AFTER CLOSURE OF WALLS.

GENERAL NOTES	
1.	THESE DRAWINGS PROVIDE SUPPLEMENTAL INFORMATION TO THE SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS.
2.	ALL SYSTEMS CABLING INCORPRATED IN THIS PROJECT WILL BE HOME RUN, WITH OUT BREAKS OR SPLICES, TO THE EXISTING IDF LOCATED IN FILE STORAGE, ROOM 101.
3.	THE CONTRACTOR SHALL COORDINATE ITS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK THAT IS DIFFERENT FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE
4.	THE CONTRACTOR SHALL PROVIDE AND KEEP A UP-TO-DATE AND COMPLETE RECORD SET OF SHOP DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE APPROVED SHOP DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE CONTRACT DOCUMENTS WITHOUT WRITTEN AUTHORIZATION.
5.	THE EXACT LOCATION OF ALL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ELECTRICAL AND MECHANICAL DRAWING DETAILS, OR SECTIONS PRIOR TO INSTALLATION. MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO THE CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS THAT ARE NOT APPROVED BY THE OWNER SHALL BE RELOCATED AS DIRECTED BY THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
6.	FULLY COORDINATE THE LAYOUT OF ALL CABINETS AND RACKS WITH OTHER EQUIPMENT AND FURNITURE WITHIN THE SAME ROOM PRIOR TO SUBMITTING SHOP DRAWINGS FOR APPROVAL.
7.	ALL WORK SHALL BE INSPECTED AND APPROVED BEFORE COVER-UP.
8.	ALL RECESSED FIXTURES, SPEAKERS, RECEPTACLES, SWITCHES, ETC., MOUNTED IN THE FIRE RATED CEILINGS OR WALLS SHALL BE ENCLOSED WITH AN APPROVED ENCLOSURE CARRYING THE SAME FIRE RATING AS THE CEILING OR WALL.
9.	CONTRACTOR SHALL TEST AND IDENTIFY ALL EXISTING CONDITIONS OF SYSTEMS RELEVANT AND/OR AFFECTED BY THIS PROJECT. SUBMIT A LIST OF IDENTIFIED PROBLEMS AND SEQUENCES OF OPERATIONS TO THE DISTRIC SO APPROPATE ACTION CAN BE TAKEN TO ALIEAVATE THE PROPBLEM.
10.	ONLY NEW, UN-USED MATERIALS ARE TO BE EMPLOYED IN THE COMPLEATION OF THE PROJECT. ANY USED MATERIAL FOUND INSTALLED WILL BE IMEADREATLY REPLACED TO THE SATISFACTION OF THE DISTRIC AT THE CONTRACTOR'S SOLE EXPENCE.

TERMINATE ALL CABLES PER EIA/TIA-T568B WIRING SCHEME.

SYMBOL LIST						
Symbol	Type of Location (outlet)	Type of Location (outlet)	# of cables per Location	Type of Cable	CMR / CMR	Color of Jack
	Outdoor Mini Dome Camera	CCTV	1	CAT6 Blue	CMR	YELLOW
	Indoor Mini Dome Camera	CCTV	1	CAT6 Blue	CMR	YELLOW
	Wi-Fi Access Point	DATA	2	CAT6 Blue	CMR	PURPLE
	SecureALL Access Point	Access Control	1	CAT6 Blue	CMR	RED
	Wall Workstation	DATA	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN
	Floor Workstation	DATA	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN
	Wall Mounted Display/TV	AV	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN

**DETAIL - REFERENCE NOTE**  
SCALE: NONE

**DETAIL NUMBER**  
**DRAWING NUMBER**

DRAWINGS INDEX	
T0.00	TEL-COM SYMBOLS, LEGENDS AND NOTES
T3.01	TEL-COM FIRST FLOOR DEVISE PLAN
T3.02	TEL-COM SENCOND FLOOR DEVISE PLAN
T4.00	TEL-COM AUDIO/VIDEO SYSTEM
T5.00	TEL-COM ACCESS CONTROL & VIDEO SURVEILLANCE

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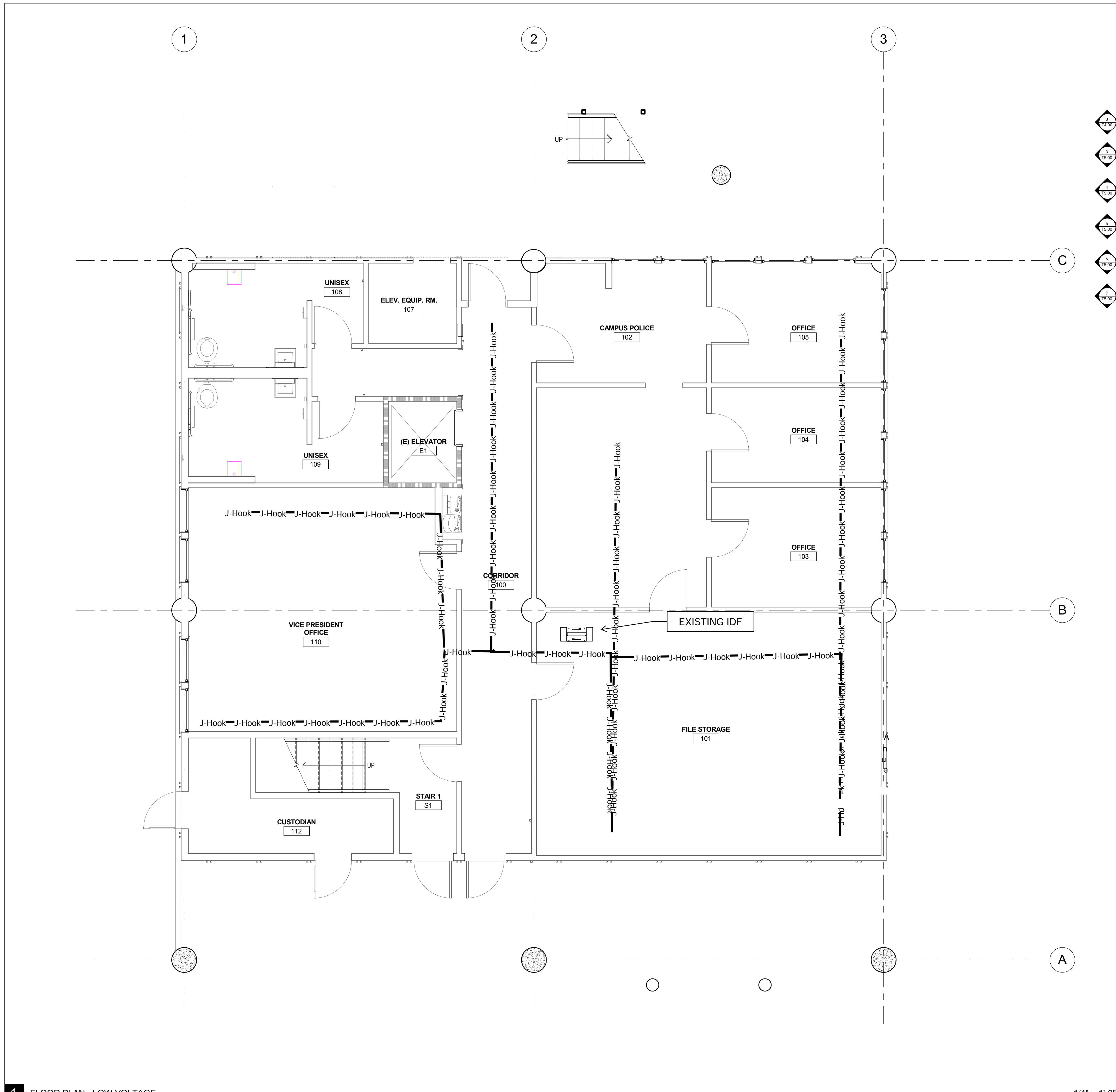
novato, california  
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**CONSTRUCTION DOCUMENTS**  
TEL-COM PLAN  
COVER PAGE



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Outlet Symbol List						
Symbol	Type of Location (outlet)	Type of Location (outlet)	# of cables per Location	Type of Cable	CMR / CMR	Color of Jack
	Outdoor Mini Dome Camera	CCTV	1	CAT6 Blue	CMR	YELLOW
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	Wi-Fi Access Point	DATA	2	CAT6 Blue	CMR	PURPLE
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	Floor Workstation	DATA	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN
	Wall Mounted Display/TV	A/V	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN

Symbol LIST and NOTES	
	All horizontal cabling, unless other wise noted, will be home ran though the first floor accessible ceiling space Provide a 3/4" conduit from the back box though the floor into access ably ceiling space
	J-Hook pathway - Contractor to provide their own ceiling wires and J-Hooks. J-Hooks shall be installed every 48" for proper support. Cables resting on or touching the ceiling grid are not permitted. All pathways shall be installed in straight, uniform runs, employing right angles when turning. Cabling shall be neat and clean with gentle swells between J-Hooks and around turns. DO NOT share or use ceiling wires install by other trades.
	Existing IDF location - Use the existing 19"x7" Equipment Rack for the new Panduit all metal Angled Modular Patch Panels for all location cabling.

1 FLOOR PLAN - LOW VOLTAGE

1/4" = 1'-0"

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DANIEL L. DAVIS  
REG. NO. 183327R  
EXPIRES 12-31-16  
SIGNATURE

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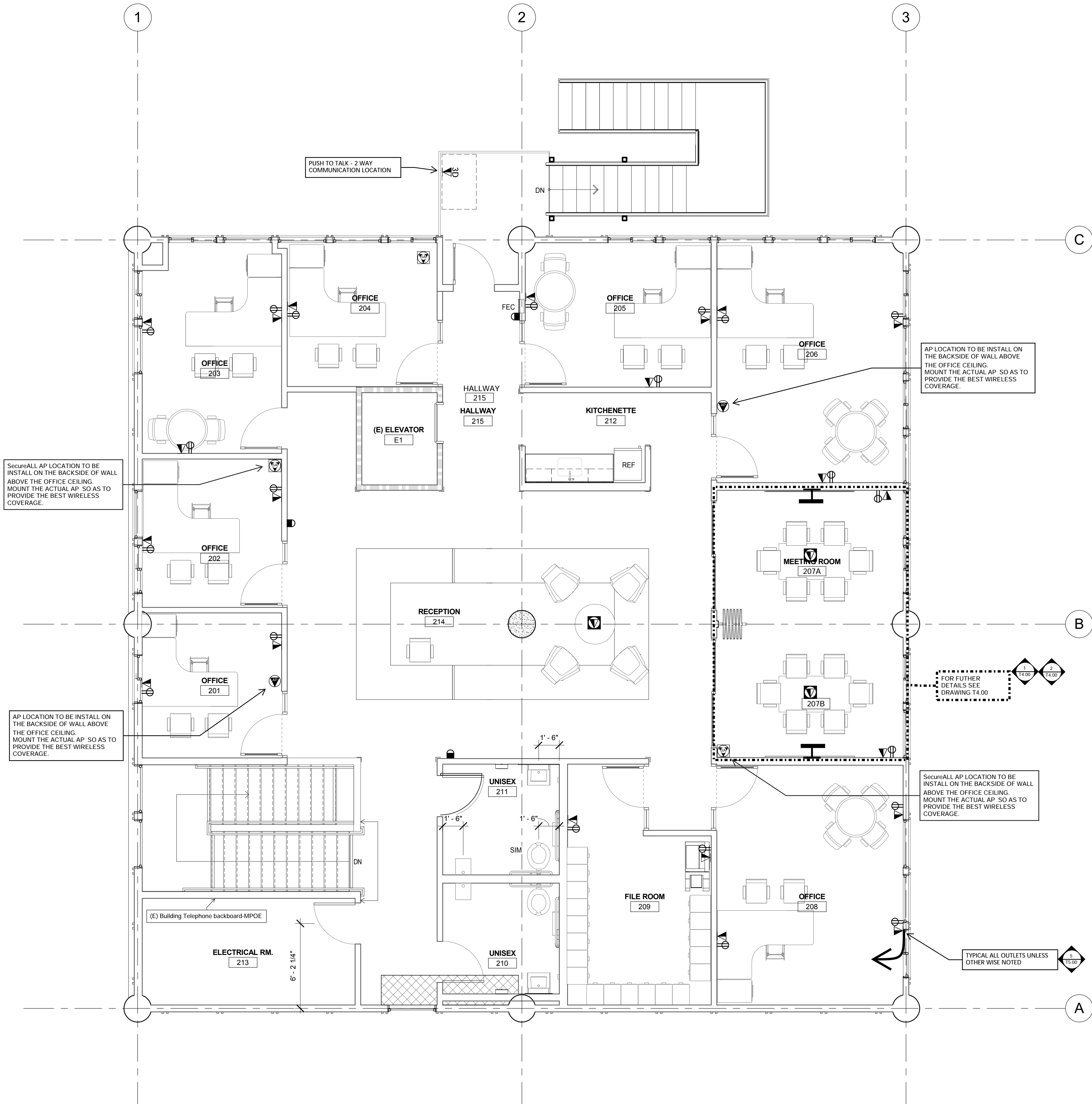
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**CONSTRUCTION DOCUMENTS**  
**TEL-COM**  
**FIRST FLOOR PLAN**

**T3.01**

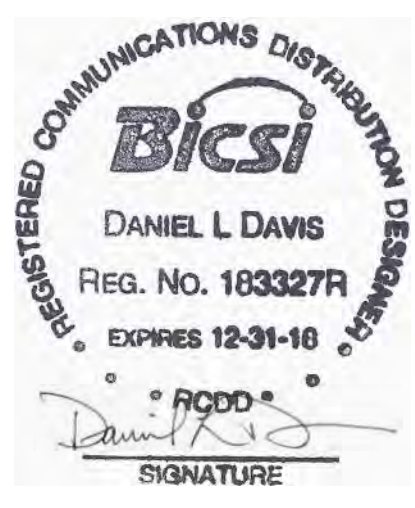
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Outlet Symbol List						
Symbol	Type of Location (outlet)	Type of Location (outlet)	# of cables per Location	Type of Cable	CMP / CMR	Color of Jack
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	Wall Workstation	DATA	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN
	Floor Workstation	DATA	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN
	Wall Mounted Display/TV	A/V	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN
	All horizontal cabling, unless otherwise noted, will be home ran through the first floor accessible ceiling space. Provide a 3/4" conduit from the back box through the floor into access ably ceiling space.					
	J-Hook pathway - Contractor to provide their own ceiling wires and J-Hooks. J-Hooks shall be installed every 48" for proper support. Cables resting on or touching the ceiling grid are not permitted. All pathways shall be installed in straight, uniform runs, employing right angles when turning. Cabling shall be neat and clean with gentle swells between J-Hooks and around turns. DO NOT share or use ceiling wires install by other trades.					
SHEET NOTES:						
1. PROVIDE ASSISTIVE LISTENING SYSTEMS FOR OFFICE 203, 206 AND 208 AS OUTLINED IN SPECIFICATION SECTION 27 51 26.						
2. PROVIDE, INSTALL AND ADD THE NEW SURVALANCE CAMERAS TO THE EXISTING VIDEO MANAGEMENT SOFTWARE.						

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 SECOND FLOOR PLAN



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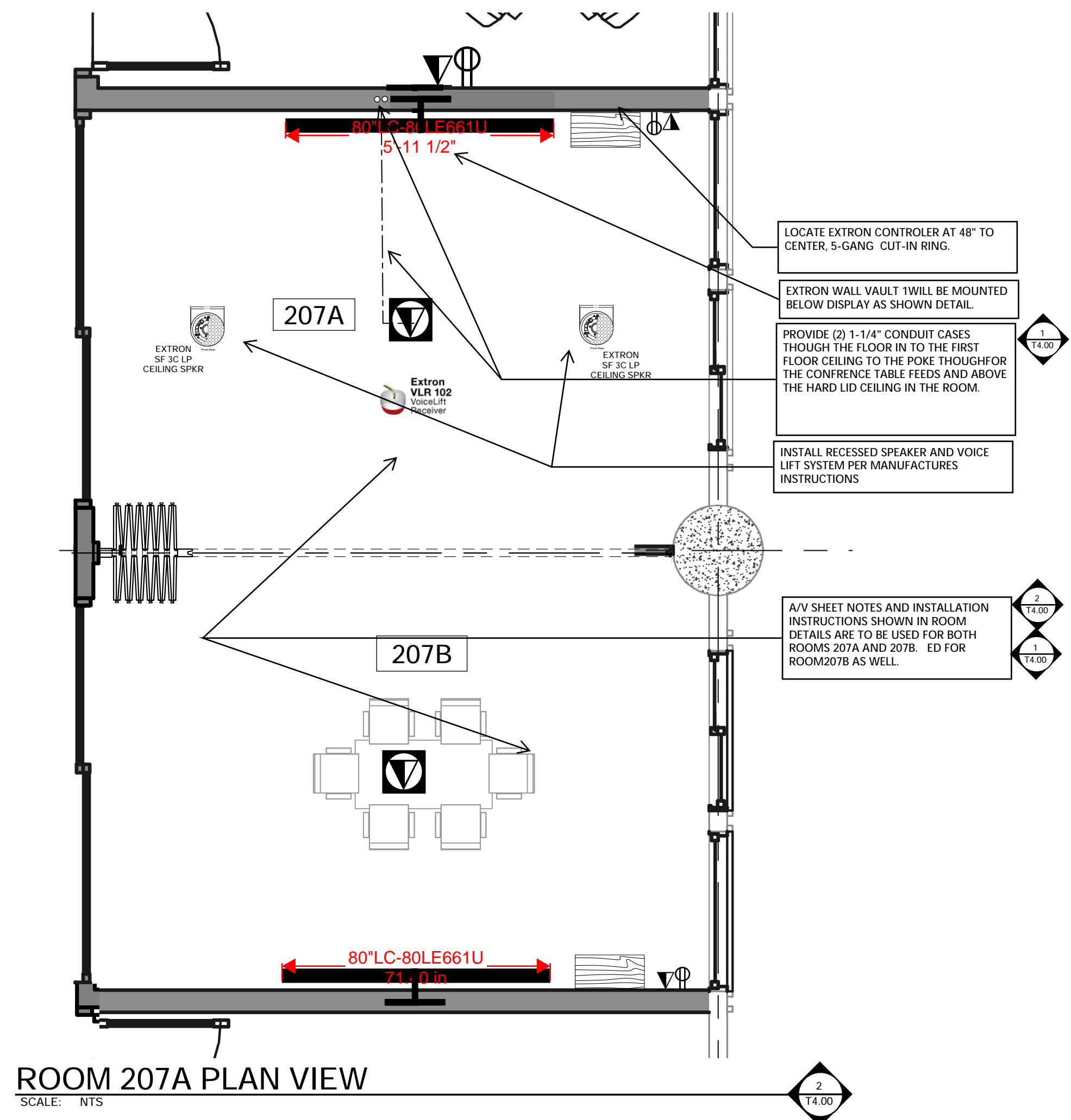
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CONSTRUCTION  
DOCUMENTS  
TEL-COM -  
A/V FUNCTIONAL  
DIAGRAMS &  
DETAILS

T4.00



PROVIDE, INSTALL AND ADD THE NEW SURVAILANCE CAMERAS TO THE EXISTING VIDEO MANAGEMENT SOFTWARE.

**VIDEO SURVAILANCE CAMERAS**  
SCALE: NTS

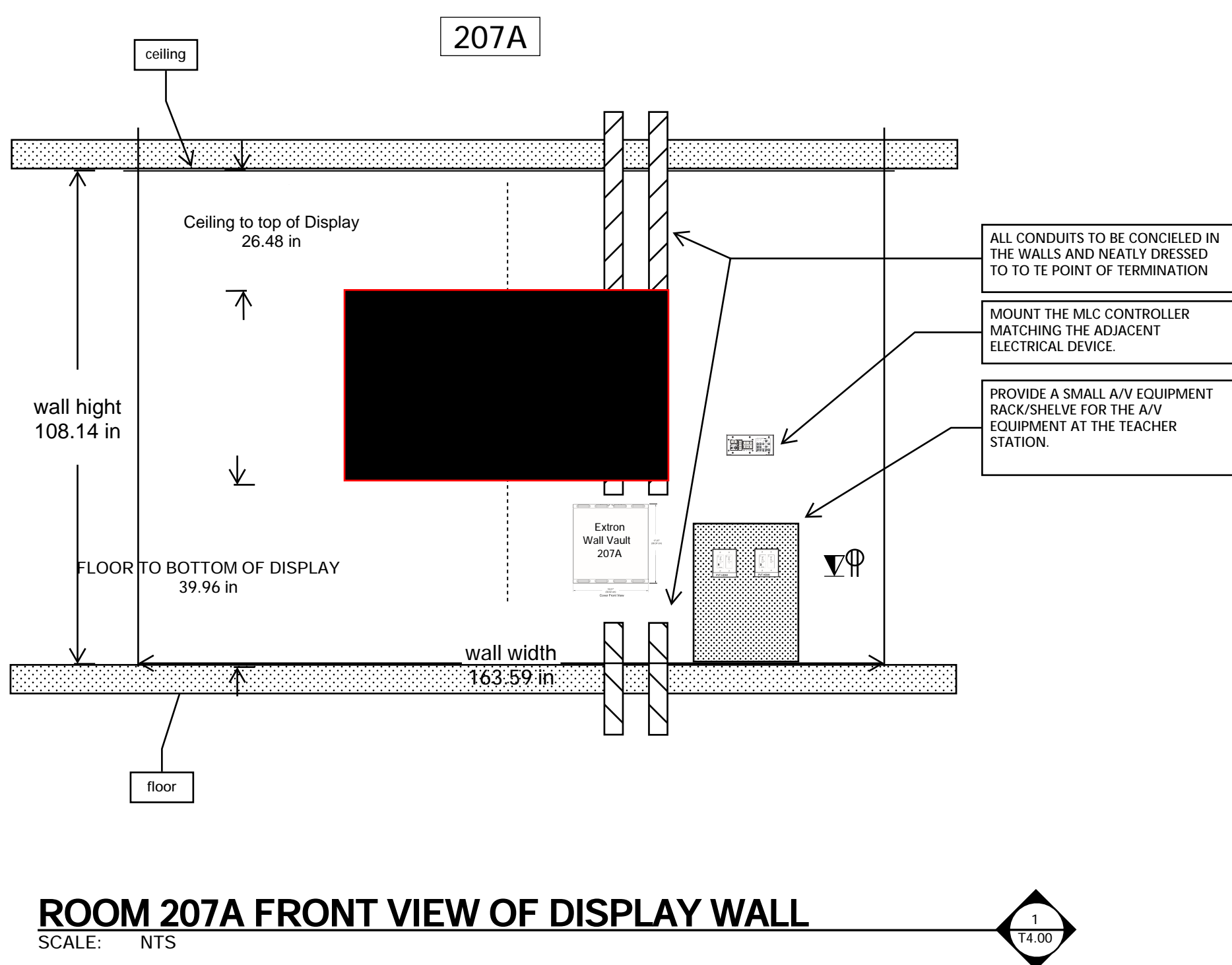
QD62NI-B7 011-0487 ALLIANCE-MINI INDOOR VANDAL DOME DAY/NIGHT CAMERA; H.264; 1080p, 3-6 mm lens; black plastic trim ring

- Resolutions up to 5 MP
- H.264 Main Profile + MJPEG compression
- WDR on 1, 2, 3 MP models (100 dB)
- On-camera storage (Micro SDHC)
- Two way audio with built-in microphone
- True day/night with movable infrared (IR) cut filter
- 3-axis gimbal
- Power-over-Ethernet
- Cast-aluminum
- ONVIF and PSIA compliant

**ASSISTIVE LISTENING SYSTEMS NOTES:**

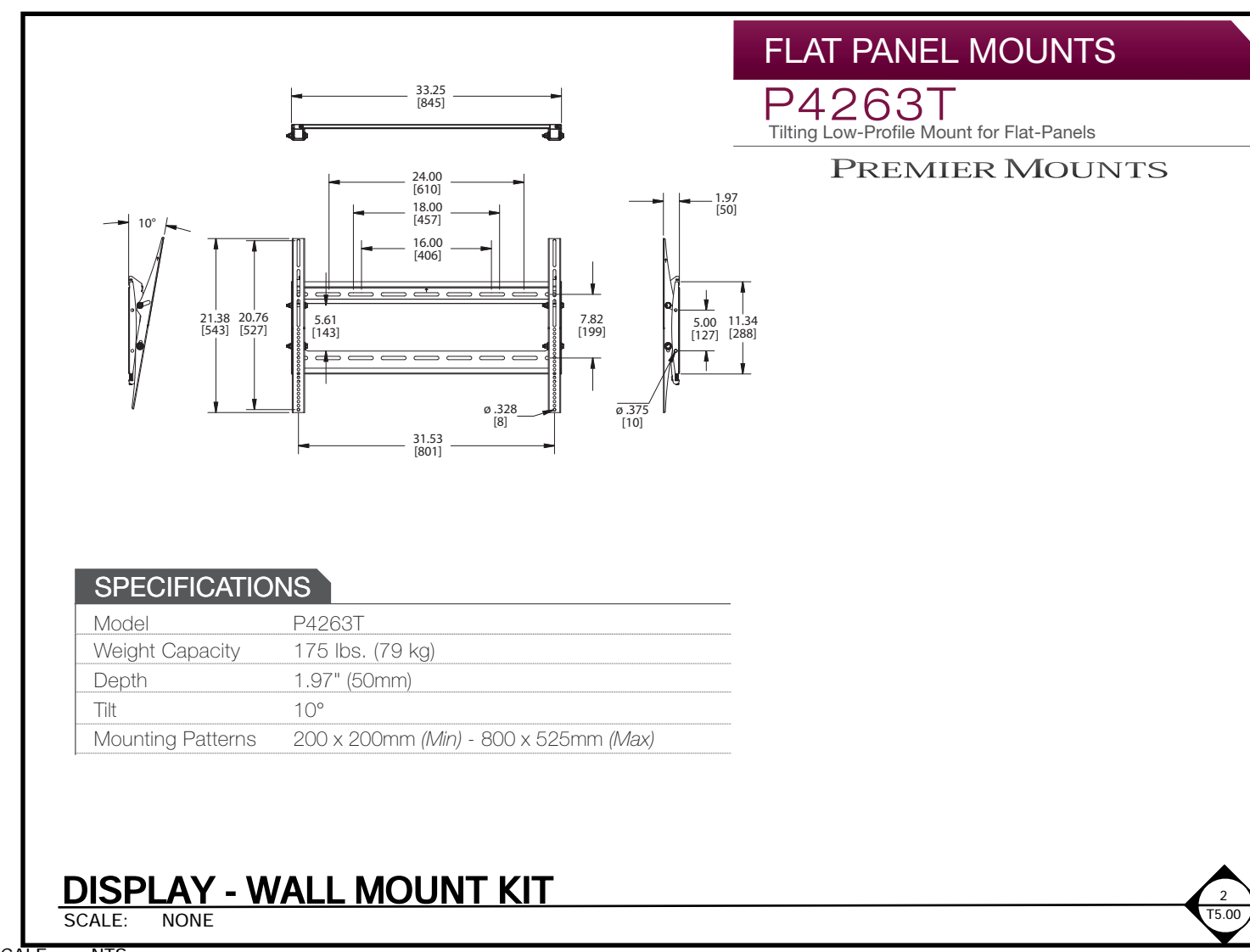
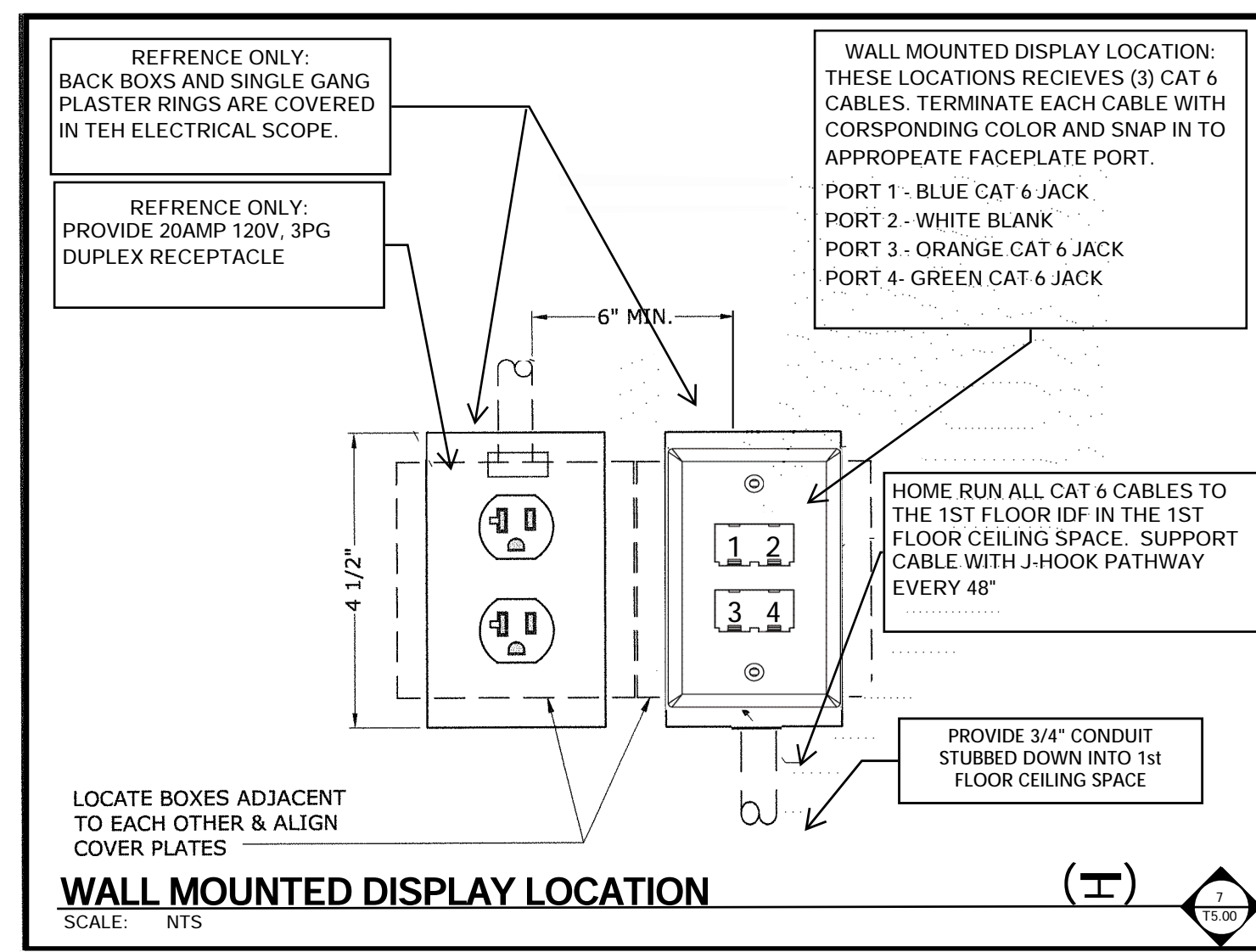
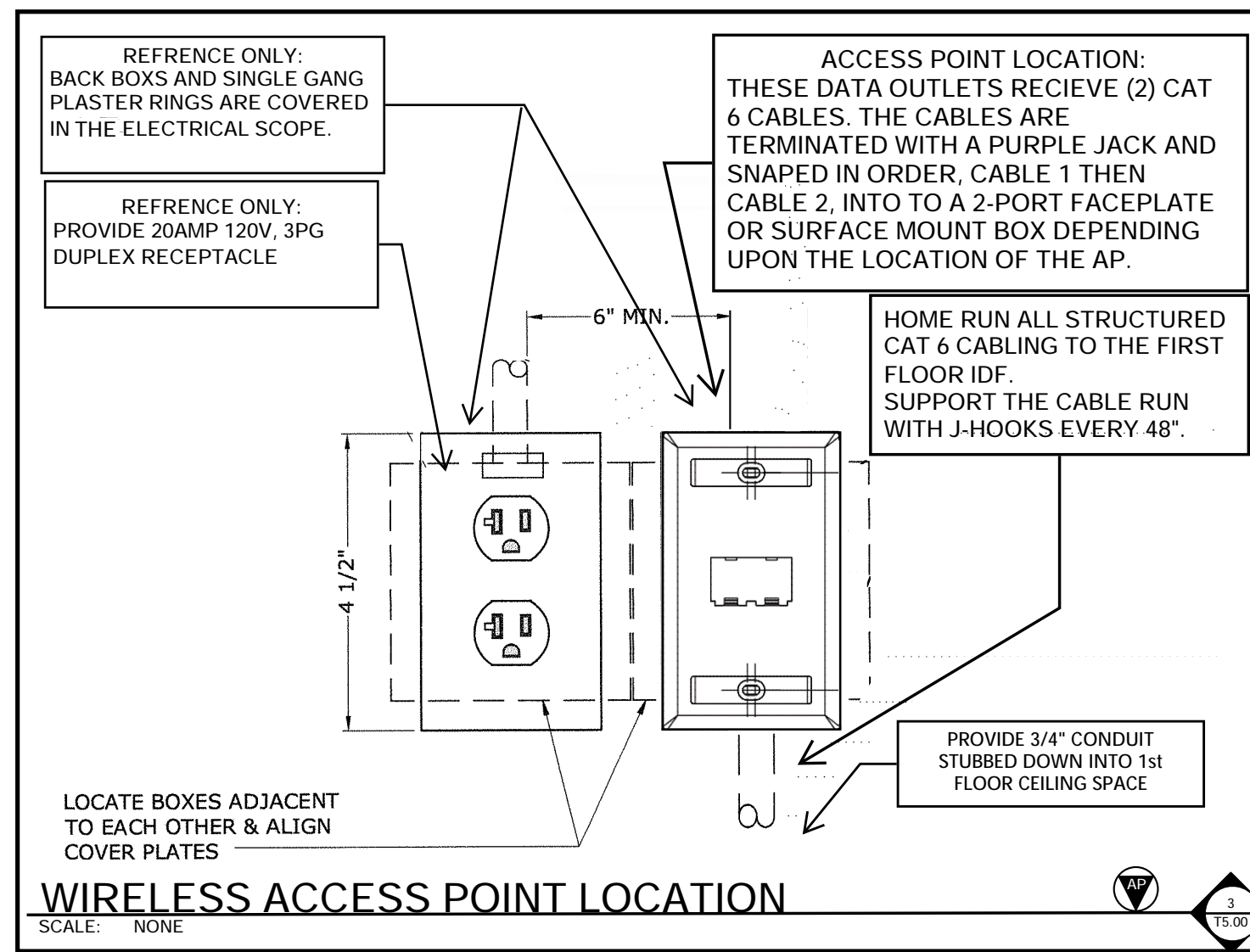
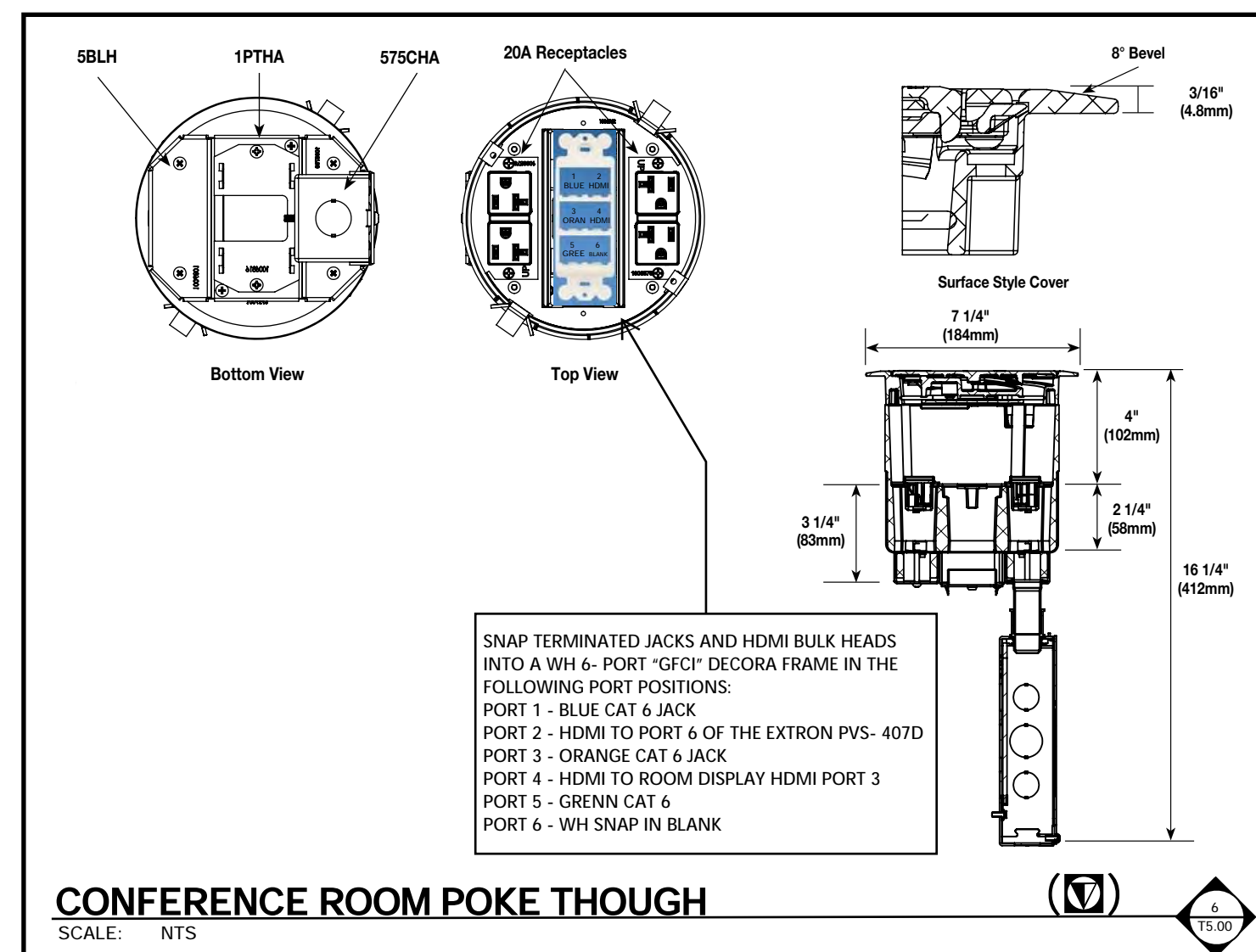
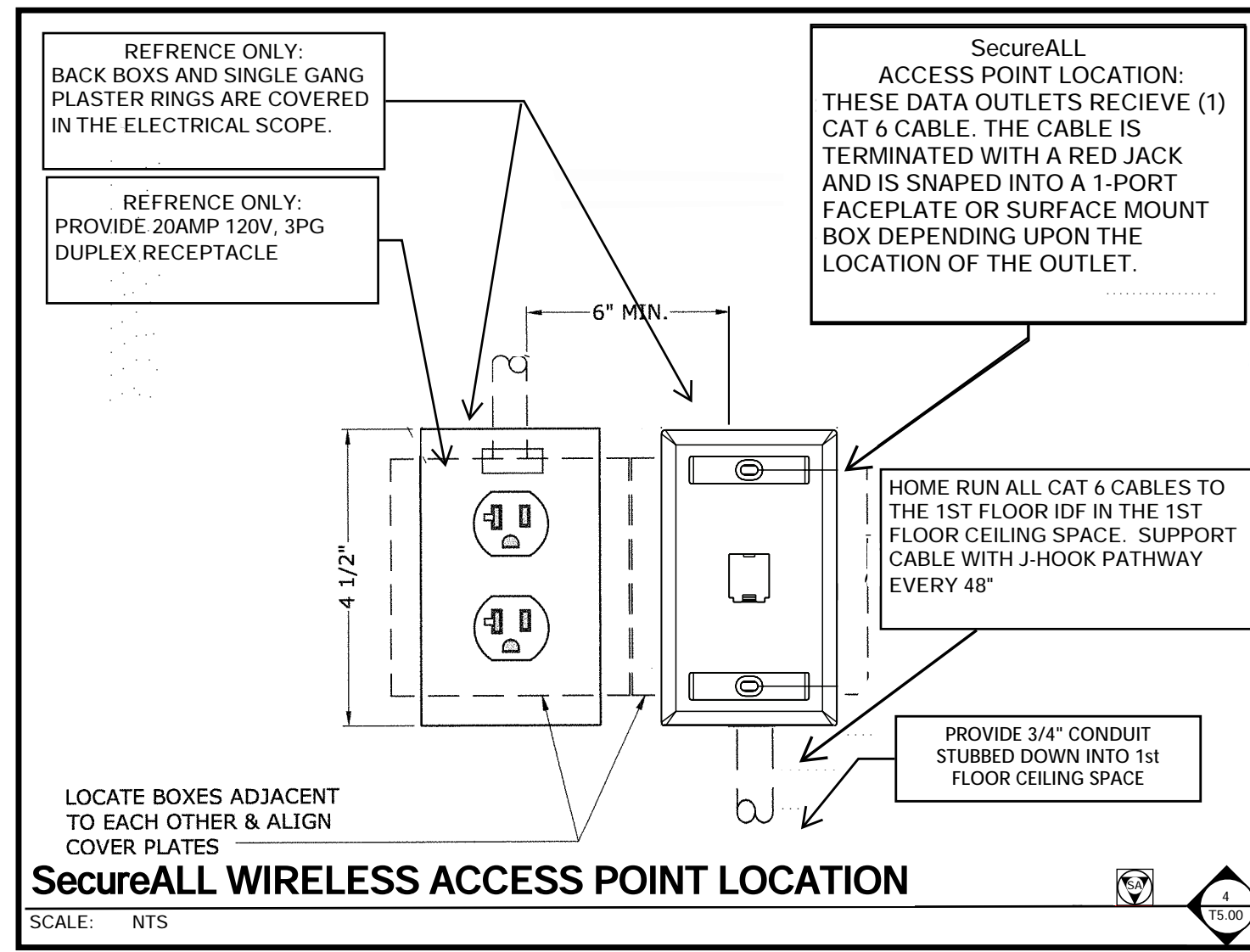
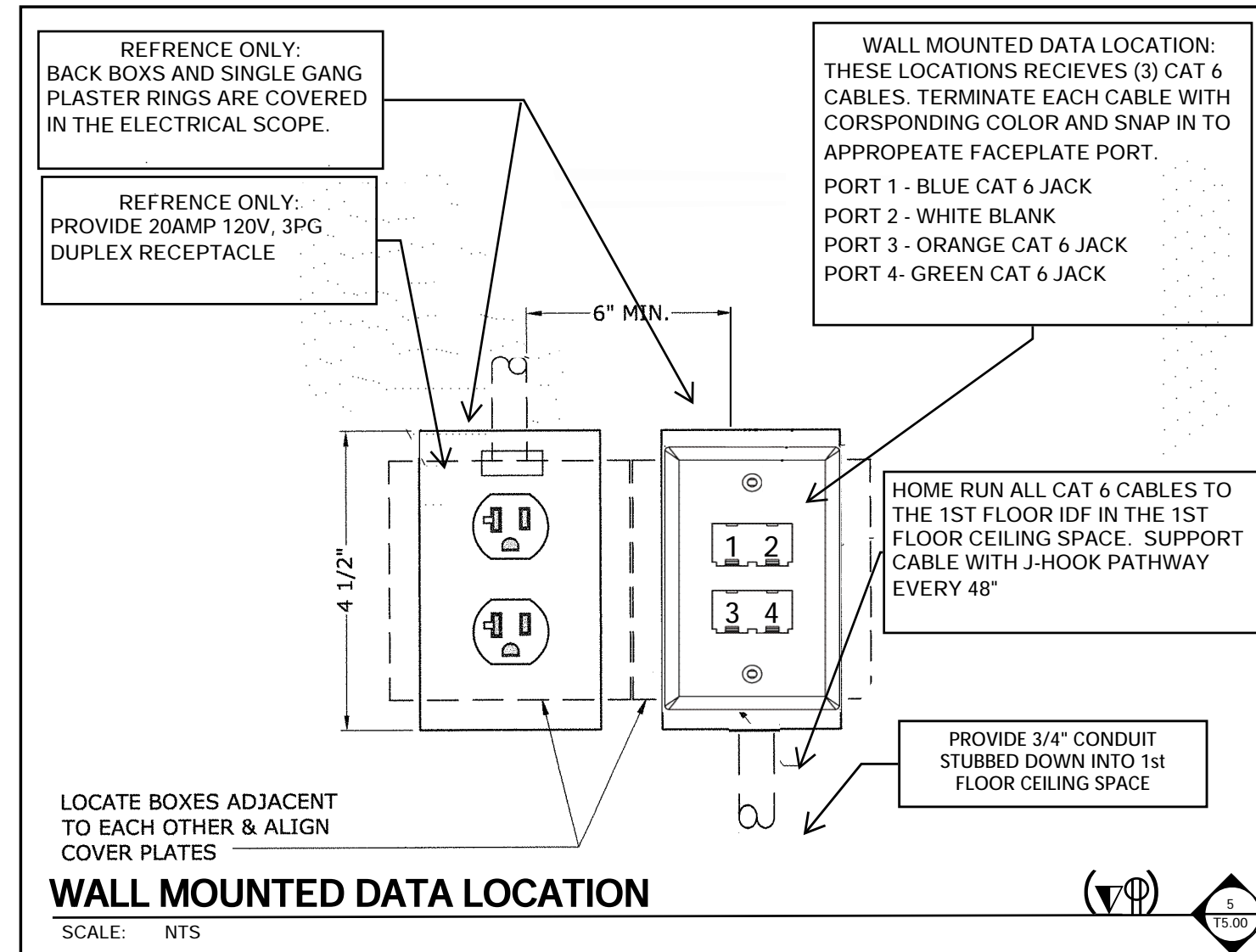
PROVIDE (3) ASSISTIVE LISTENING SYSTEMS. ONE SYSTEM IN EACH OFFICE: 203, 206 AND 208 AS OUTLINED IN SPECIFICATION SECTION 27 51 26.  
 EACH SYSTEM WILL CONTAIN:  
 (1) WIRELESS FM TRANSMITTER WITH DIGITAL TUNING, LISTEN #LT-700-216  
 (1) LAPEL MICROPHONE, LISTEN #LA-261.  
 (2) WIRELESS FM RECEIVERS, LISTEN #LR-300-072,  
 (2) EAR SPEAKERS #LA164.  
 (2) NECK LOOPS #LA-166.  
 (1) CASE, LISTEN #LA-306.  
 PROVIDE 2-AA DURACELL OR EQUAL BATTERIES FOR EACH TRANSMITTER AND RECEIVER.

**ASSISTIVE LISTENING SYSTEM**  
SCALE: NTS



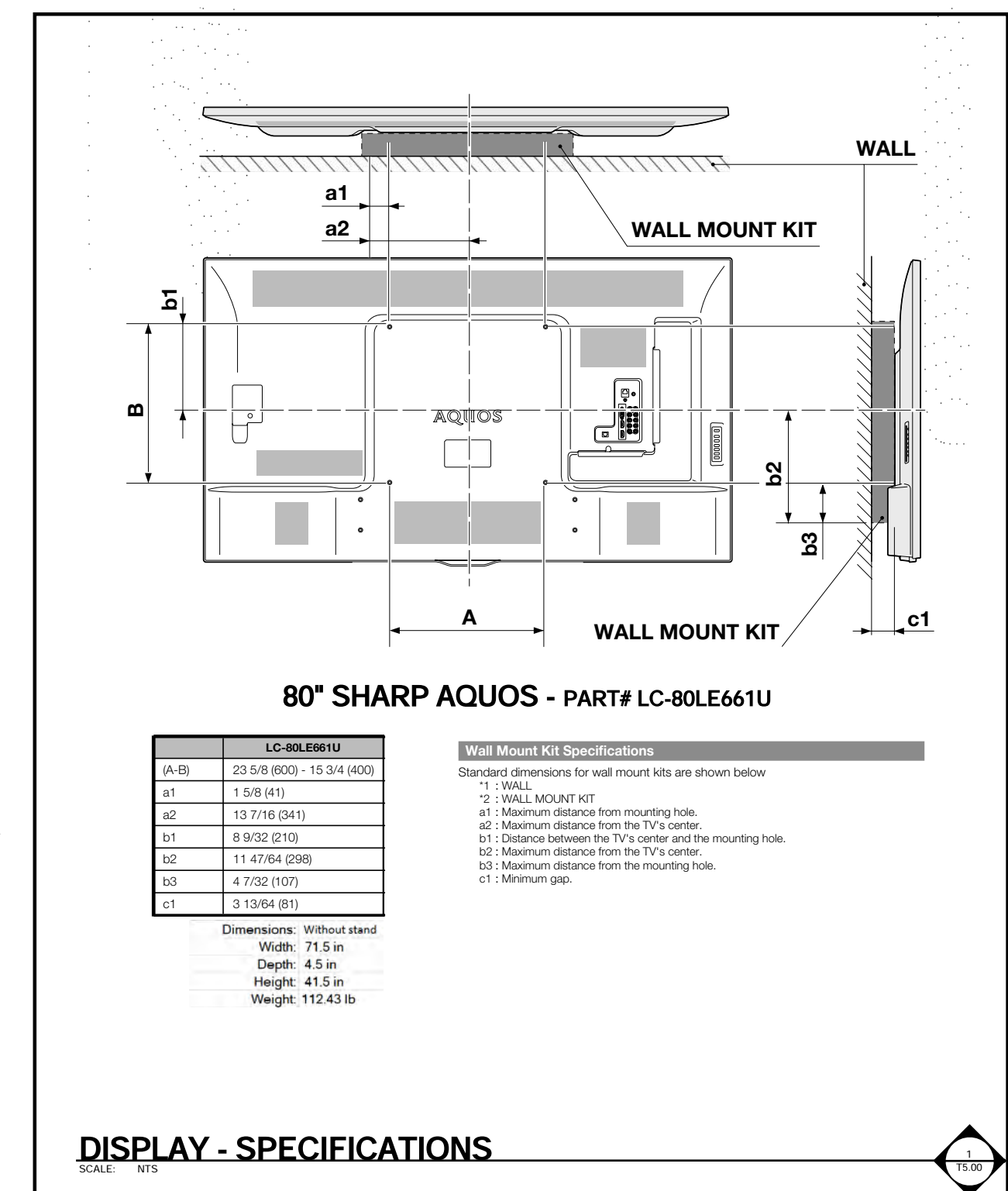


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Symbol	Type of Location (outlet)	Type of Location (outlet)	# of cables per Location	Type of Cable	CMR / CMR	Color of Jack
[Symbol]	Outdoor Mini Dome Camera	CCTV	1	CAT6 Blue	CMR	YELLOW
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[Symbol]	Wi-Fi Access Point	DATA	2	CAT6 Blue	CMR	PURPLE
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[Symbol]	Wall Mounted Display/TV	A/V	3	CAT6 Blue	CMR	CABLE 1-BLUE CABLE 2-ORANGE CABLE 3-GREEN

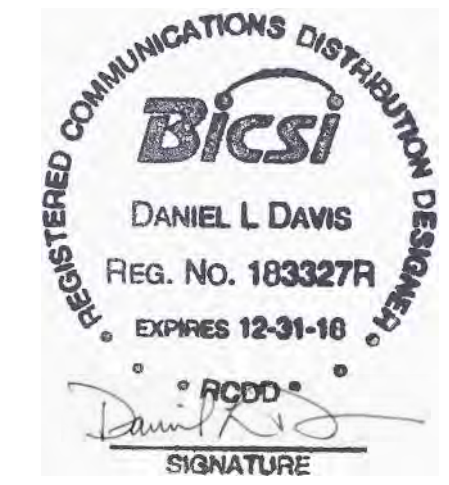
- NOTES:**
- All shown outlets are new unless other wise noted as (E) Existing
  - All Cat6 cabling will home run to the existing IDF in room 101
  - All Cat6 cabling will be home run from the outlet to the IDF, NO SPLICES EXCEPTED
  - All patch panel and jack terminations will conform to the T568B termination standard



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**CONSTRUCTION DOCUMENTS**  
TEL-COM DETAILS

T5.00