

1'-4"
1'
9"
6"
3"
0" SCALE: 3" = 1'-0"

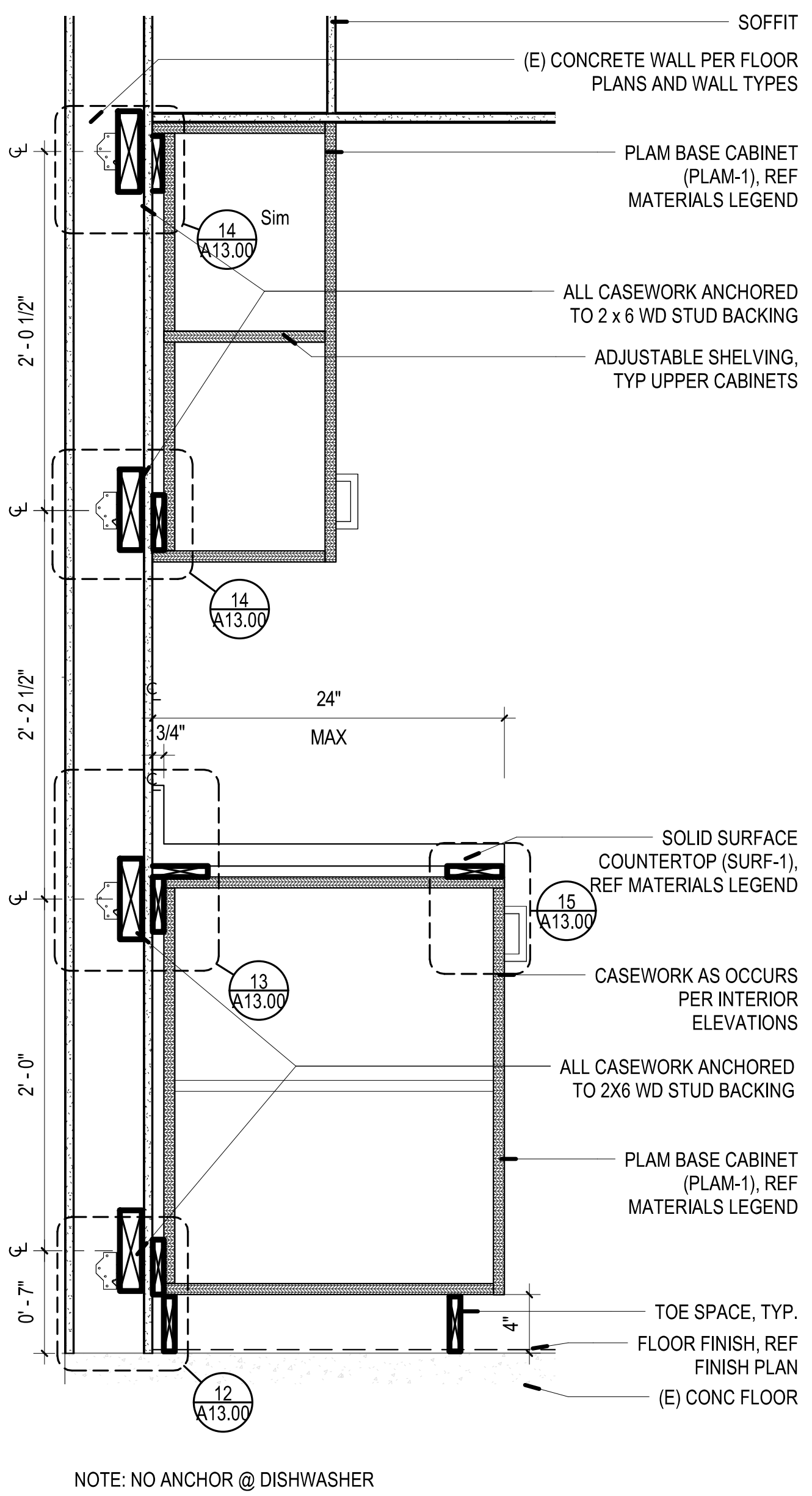
2'-8"
2'
0" SCALE: 1 1/2" = 1'-0"

16"
8"
4"
2"
0" SCALE: 1/4" = 1'-0"

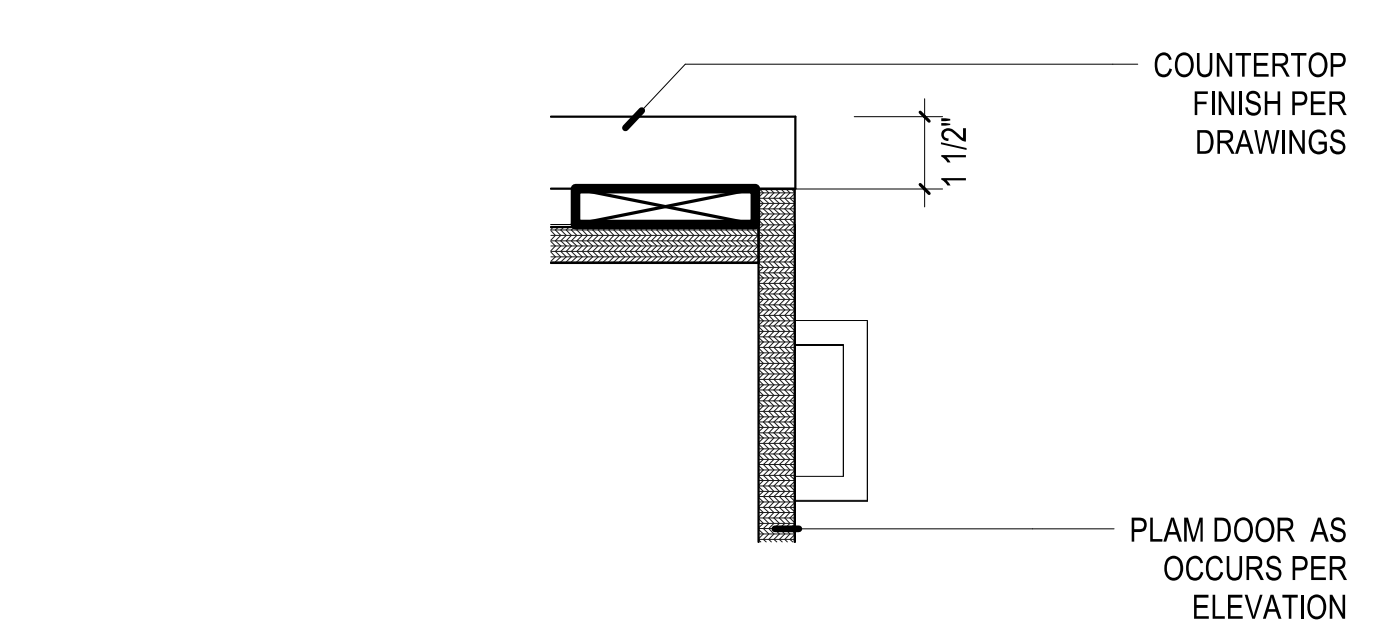
10'-8"
7'
3'
0" SCALE: 3/8" = 1'-0"

32"
16"
8"
4"
0" SCALE: 1/8" = 1'-0"

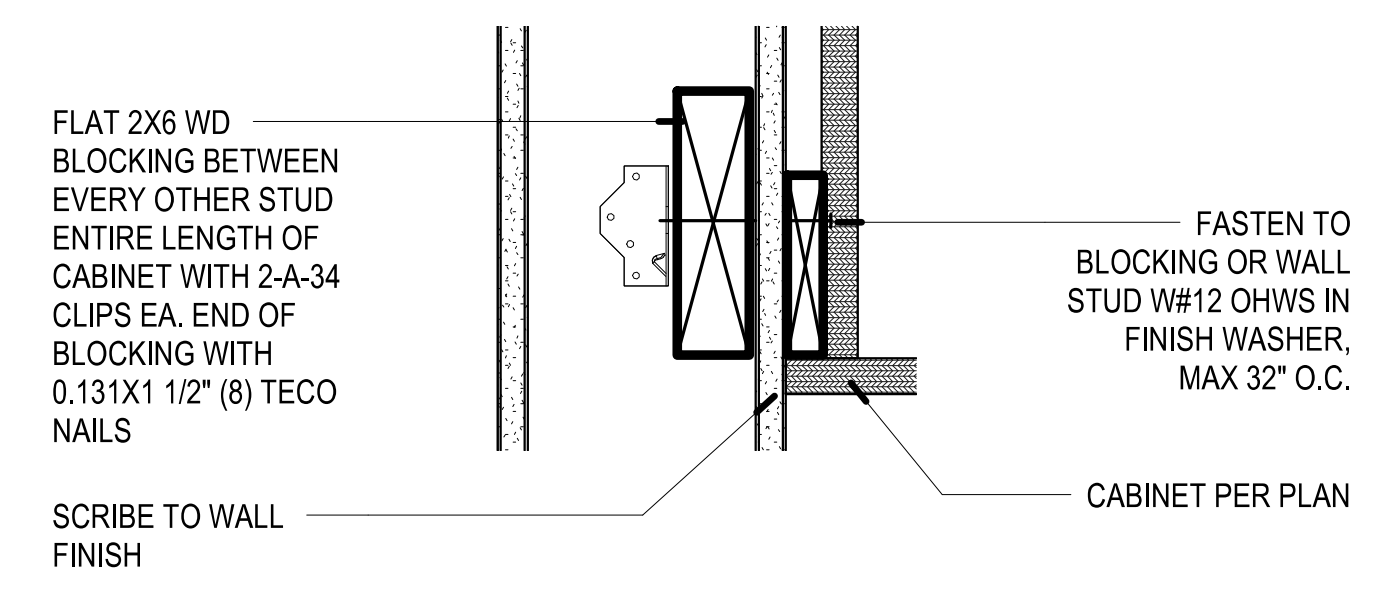
42'-8"
24"
12"
4"
0" SCALE: 3/32" = 1'-0"
12/20/2022 8:14:23 AM BIM 340



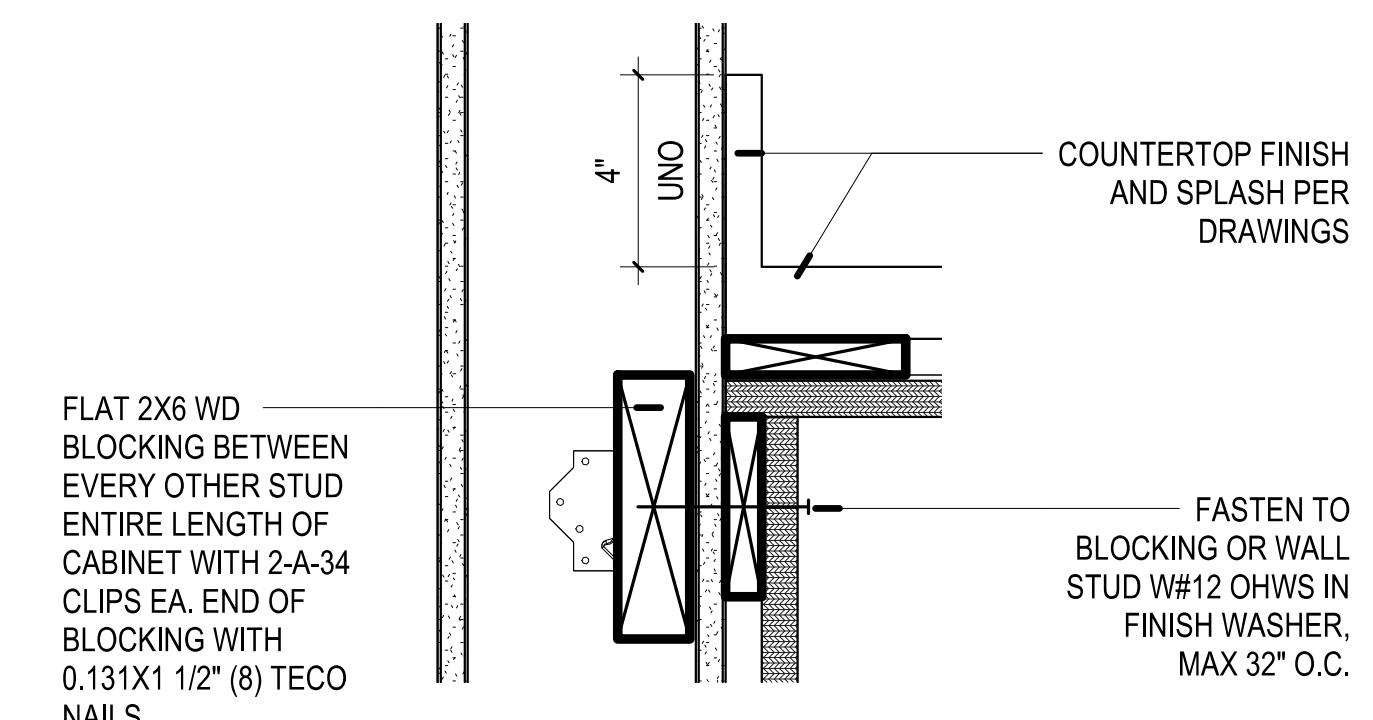
16 CASEWORK @ KITCHEN
1 1/2" = 1'-0"



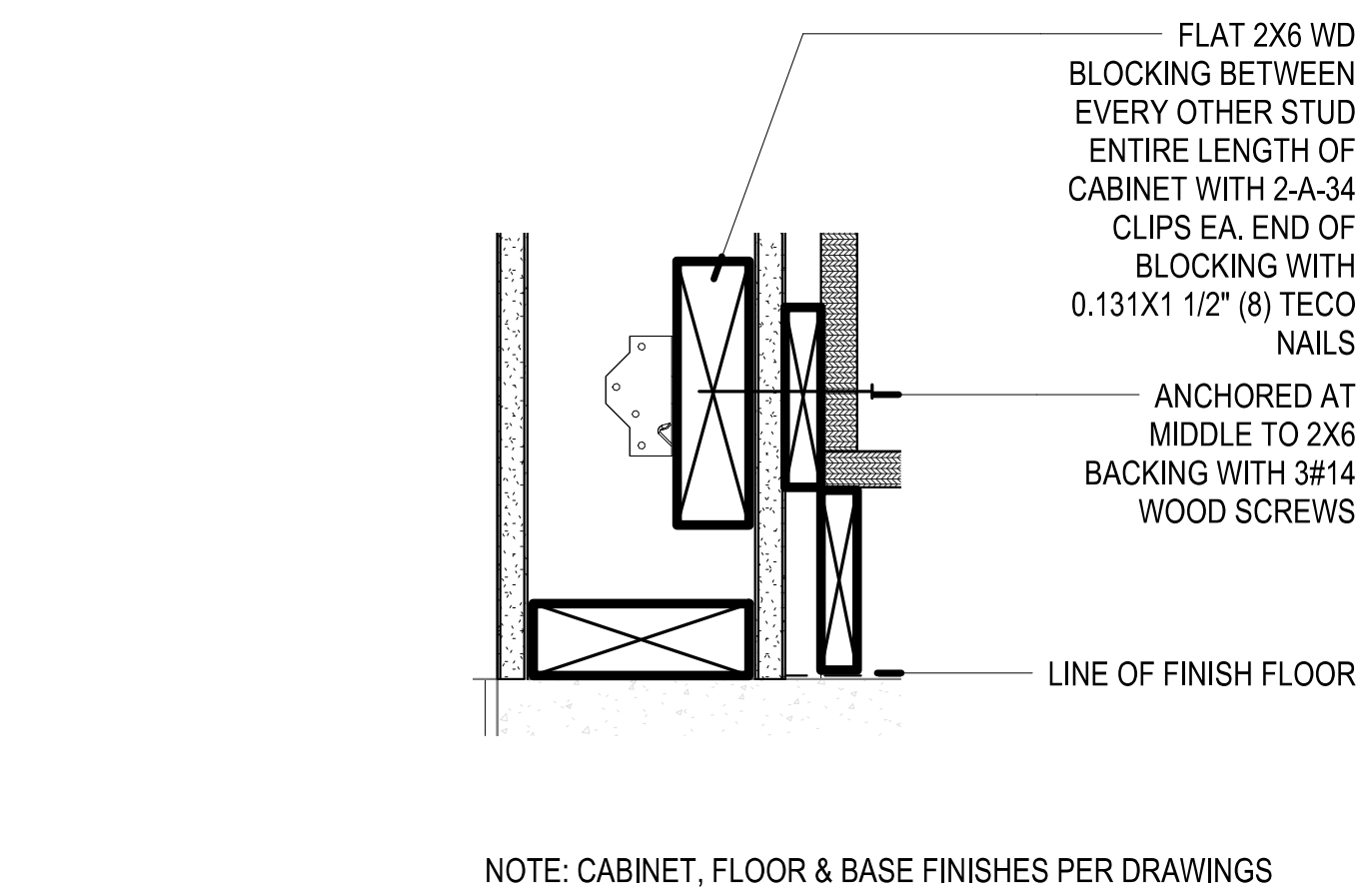
15 CASEWORK DETAIL @ FRONT
3" = 1'-0"



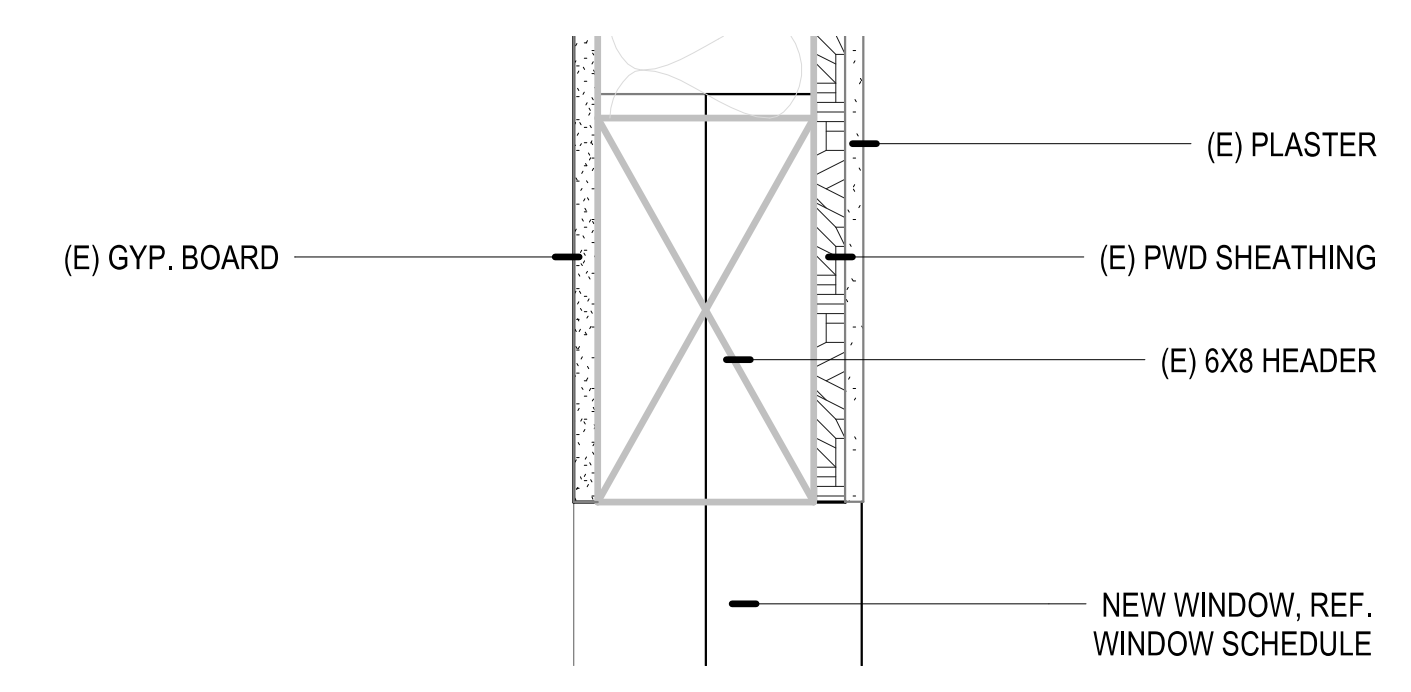
14 CASEWORK DETAIL @ HIGH CASE
3" = 1'-0"



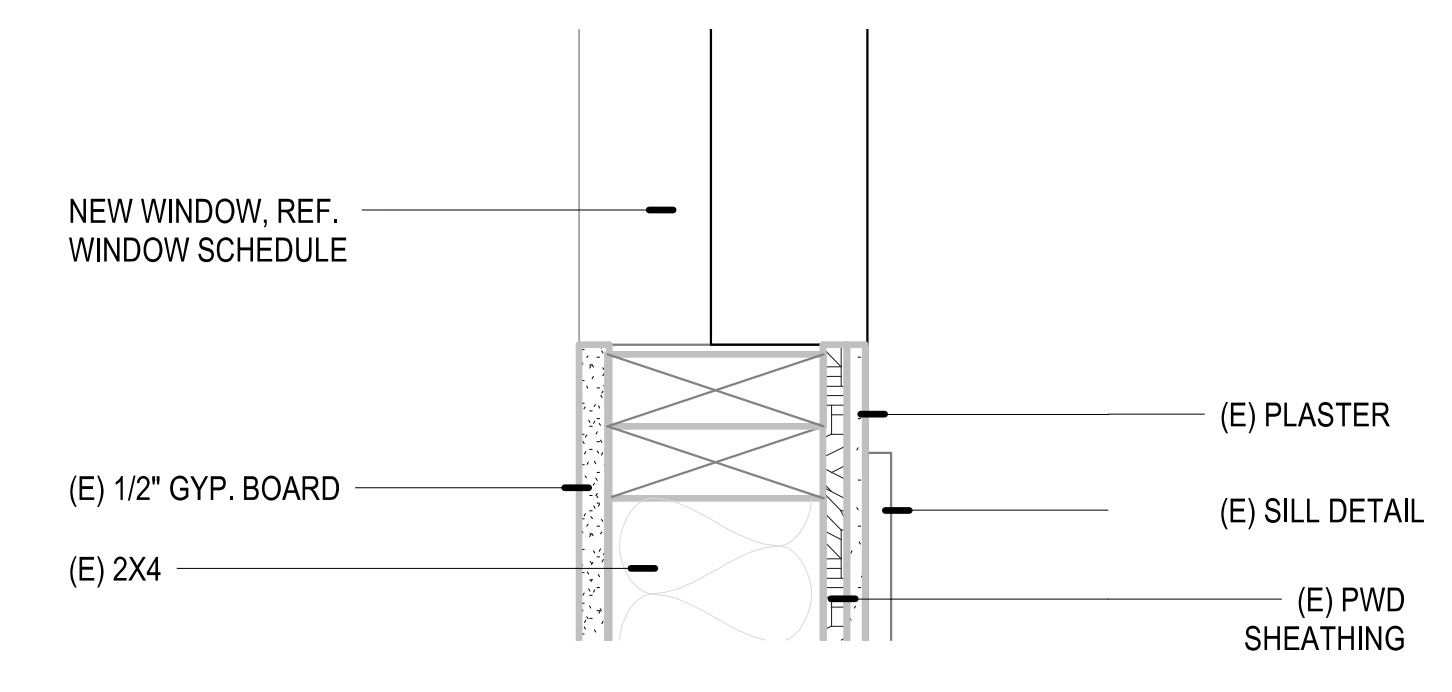
13 CASEWORK DETAIL @ MIDDLE CASE
3" = 1'-0"



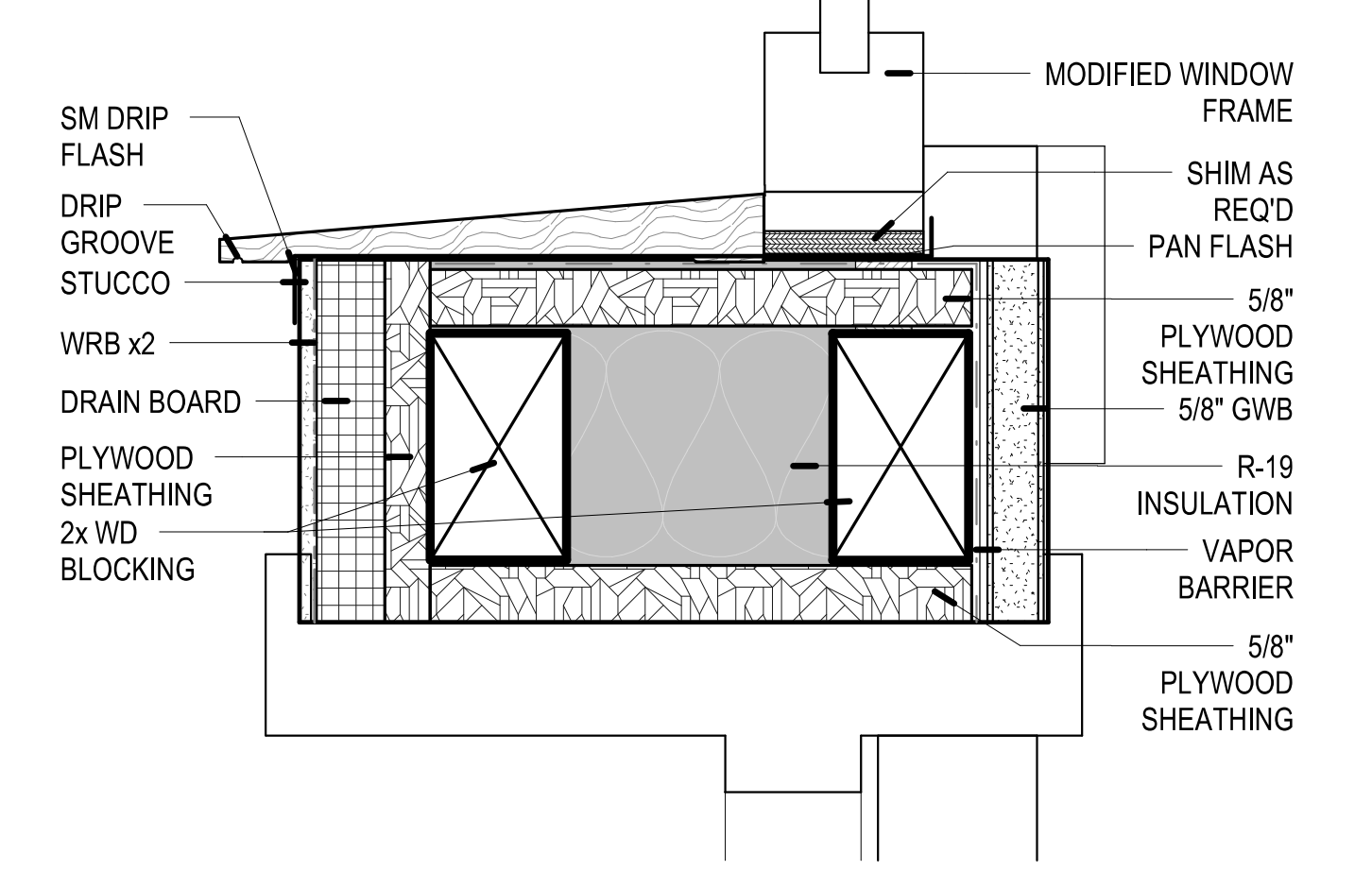
12 CASEWORK DETAIL @ BASE CASE
3" = 1'-0"



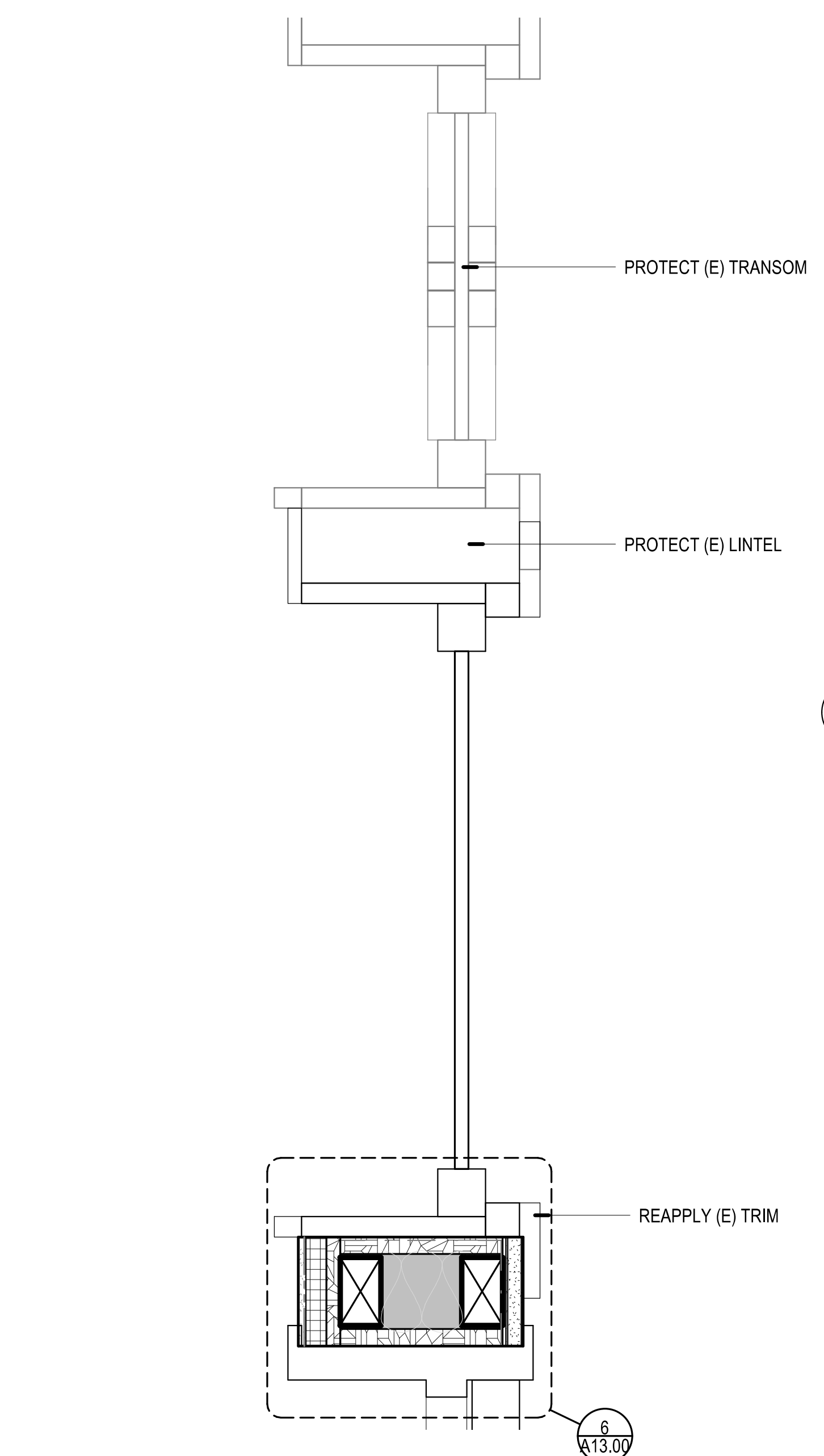
8 DETAIL - WINDOW HEAD @ OPEN WORKSPACE
3" = 1'-0"



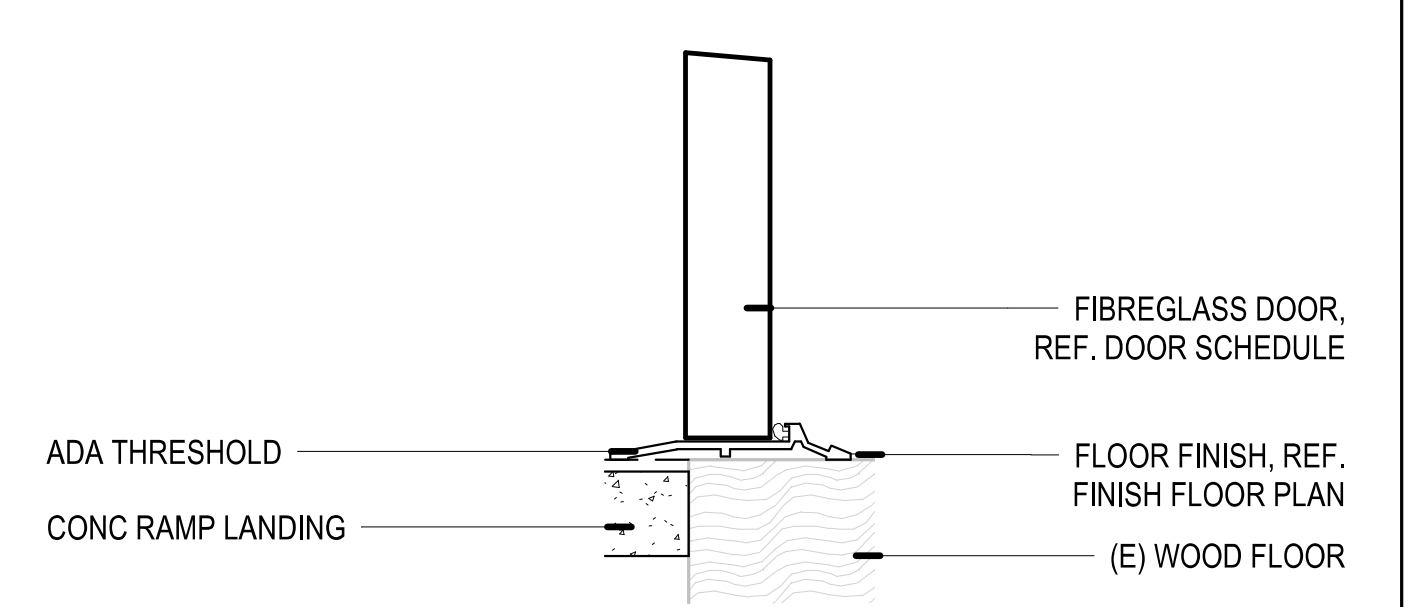
7 DETAIL - WINDOW SILL @ OPEN WORKSPACE
3" = 1'-0"



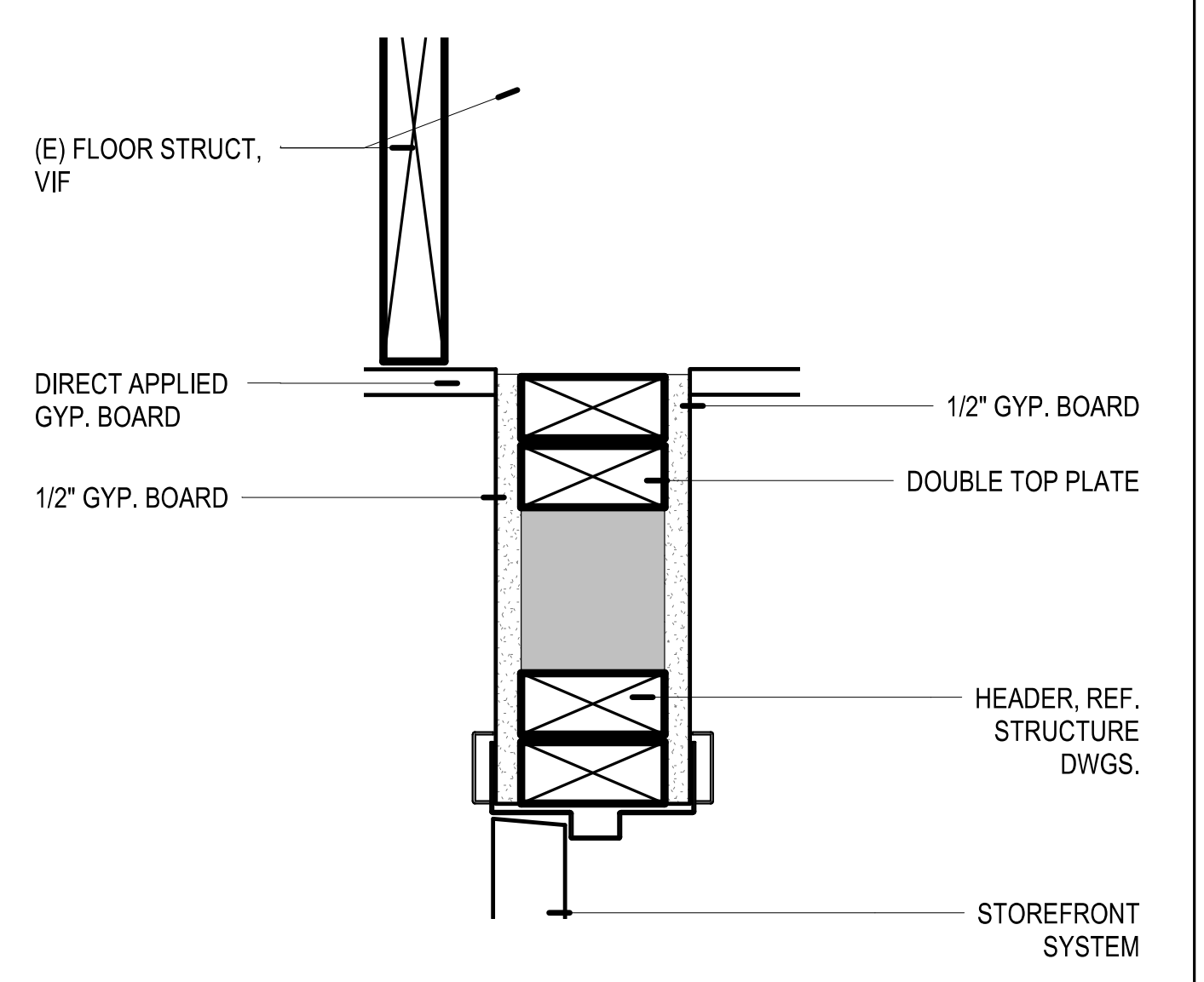
6 ADA ENTRY - DOOR HEAD
6" = 1'-0"



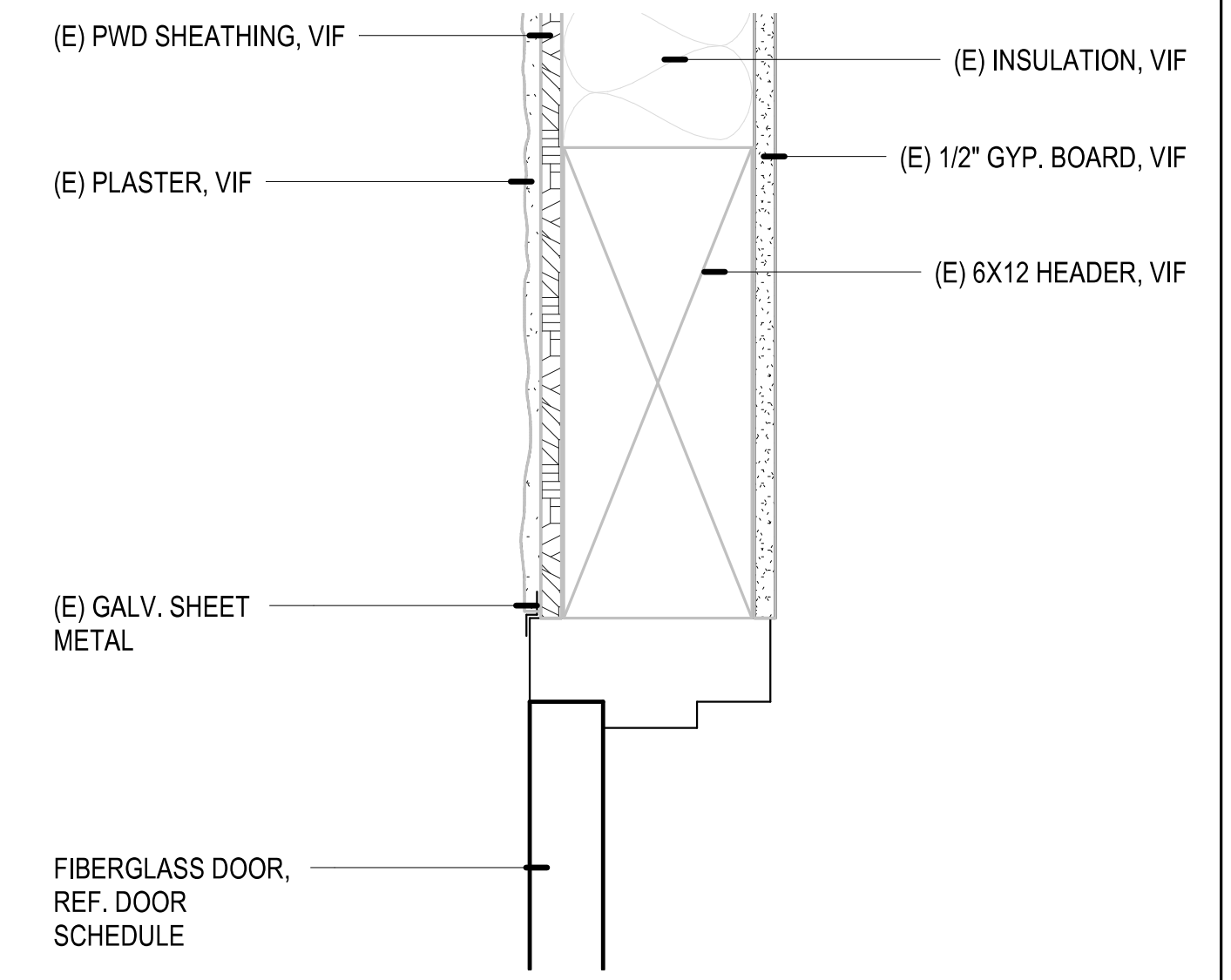
5 DETAIL - DOORHEAD @ ADA ENTRANCE
3" = 1'-0"



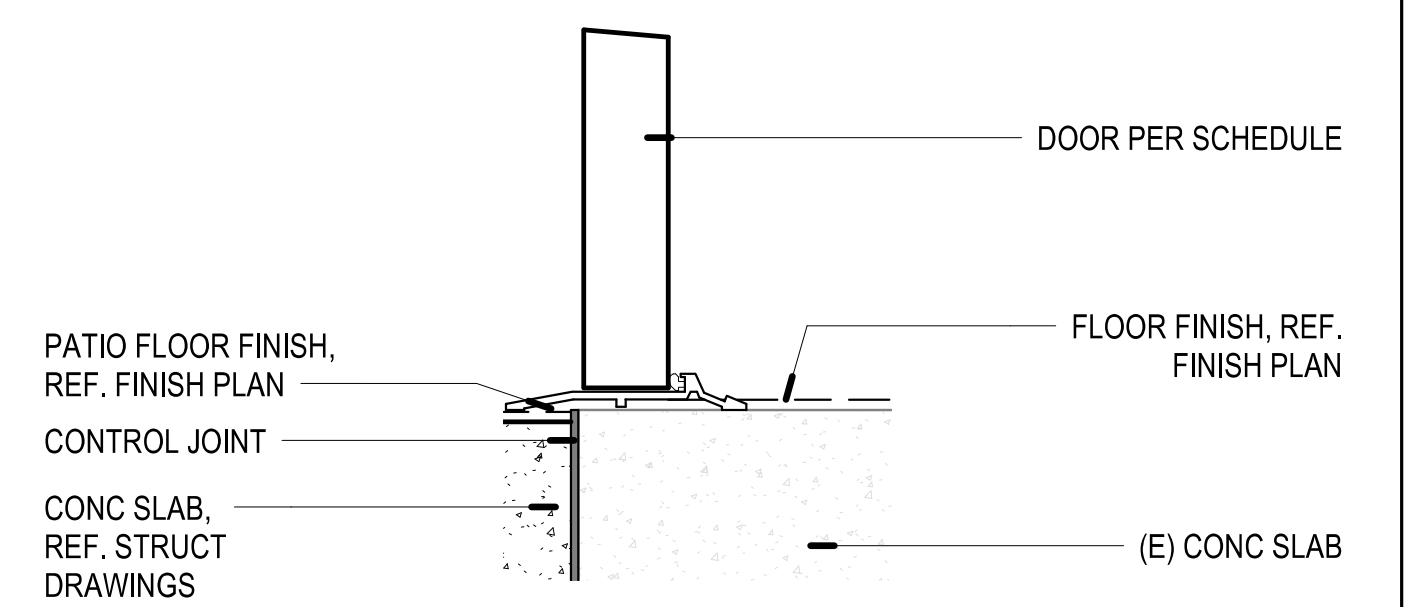
4 DETAIL - DOOR SILL @ ADA ENTRANCE
3" = 1'-0"



3 DETAIL - DOORHEAD @ CONFERENCE ROOM
3" = 1'-0"



2 DETAIL - DOORHEAD @ BACK ENTRANCE
3" = 1'-0"



1 DETAIL - DOOR SILL @ BACK ENTRANCE
3" = 1'-0"

PROJECT: 2146
DATE: 12/20/2022

No.	Description	Date

ABBREVIATIONS:

Table of abbreviations including ADDL, ALT, A.B., APPROX, BM, BRG, BEL, BET, BIE, BLS, BOT, BUN, BLDG, CANT, C.B., CLG, CHN, CLR, COL, CP, CONC, CMU, CONT, CJ, CMJ, CIS, D.L., DIA, DIM, DO, DJ, DBL, D.B., D.W., EA, EF, ES, EW, EN, ELV, EMBED, EQ, EX, EXF, E.B., E.J., EXT, F.O.C., F.O.M., F.S., F.N., F.M., FTG, FFD, GA, GALV, G.L., G.P.B., GYP, HGR, HSA, HDR, HT, HSB, INFO, INT, ISOL, JST, KD, KING, LVL, LL, LG, LLH, LLV, MB, MIW, MANUF, MAX, MECH, ML, MN, MISC, (N), N.L.C., NTS, #, O.C., O.S., OHP, OH, O.S.B., OD, PSL, P.P., PEN, PL, PLY, PSF, PSI, P.A.F., PDF, PT, PRT, PL, R, RWD, REF, REQD, RMT, SCHED, S.A.D., S.M.D., STS, SW, SIM, S.J., S.O.G., SB, SPEC, SQ, STD, STL, SYM, THRD, T.N., TAG, T&B, T.O., TS, TRMR, TYP, UBC, UNO, VERT, WT, WS, WWF, WWM.

GENERAL NOTES AND SPECIFICATIONS:

- DIVISION 1 - GENERAL:
a. All work shall conform to the 2019 CBC and applicable local codes.
b. Where applicable allowable stresses have been increased 15% (Except Alpine and Placer Counties) for short duration and 60% for seismic and wind loading.
c. Dunagan Engineering, Inc. is responsible for the structural items in the plans only.
d. All codes and standards shall be the most current edition as of the date of the calculations.
e. The details shown on the drawings are typical.
f. Temporary supports, etc., are the sole responsibility of the framing contractor and have not been considered by the structural engineer.

DIVISION 4 - MASONRY:

- a. All masonry units shall conform to ASTM C90 grade N units, U.N.O.
b. All masonry cells are to be solid grouted with mortar conforming to ASTM C279, type S, with a 28 day compressive strength of 1500 psi, minimum, U.N.O.
c. Vertical steel placement in masonry walls to be #4 bars at 16" o.c. maximum spacing, U.N.O.
d. Horizontal steel placement in masonry walls to be #4 bars at 24" o.c. maximum spacing, U.N.O.

DIVISION 2 - FOUNDATION:

- a. Building sites are assumed to be drained and free of clay or expansive soil.
b. These calculations assume stable, undisturbed soils and level or stepped footings.
c. All footings shall bear on undisturbed soil with a footing depth 24" below frostline.
d. All finish grade shall slope away from foundation for a minimum of 10'-0".
e. An assumed soil bearing pressure is determined and will be increased in accordance with CBC Table 1806.2.

DESIGN CRITERIA:

2019 California Building Code (CBC)
Local Building Department Standards
Soil Bearing (CBC Table 1806.2)
WIND DESIGN DATA
Ultimate Design Wind Speed, Vu = 120 m.p.h. (3-Second Gust)
Risk Category II
Wind Importance Factor, Iw = 1.00
Wind Exposure C
Internal Pressure Coefficient = +/- 0.18
Components & Cladding Design Pressures (ASCE 7 Section 30.4.2):
a = 3.2 ft (ASCE 7 Figure 30.4-1)

SEISMIC DESIGN DATA

Importance Factor, Ie = 1.00 (Risk Category II)
Ss = 0.627 g and S1 = 0.349 g
Site class = D
SDs = 0.543 g, SD1 = 0.100 g
Seismic design category = D
Basic seismic-force-resisting system(s): = Light-Framed Walls Sheathed with Wood Structural Panels Rated for Shear Resistance, R = 6.5
Analysis Procedure Used = Equivalent Lateral Force Procedure

SNOW LOAD DATA:

Site Elevation 2630 FT.
Ground Snow Load Pg = 54 psf
Flat-Roof Snow Load Pf = 40 psf
Snow Exposure Factor Ce = 0.9
Snow Importance Factor Is = 1.0
Thermal Factor Ct = 1.1

FLOOR FRAMING DESIGN LOADS

Floor Live Load = 50 PSF
Floor Dead Load = 30 PSF
Total Floor Load = 80 PSF
UPPER: 100 PSF
LOWER DECK: 150 PSF

RAFTER LOADING:

Snow Load = 40 PSF
Dead Load = 20 PSF
Total Load = 60 PSF

CONNECTION CROSS REFERENCE

Table with columns for Simpson Strong-Tie and USP Structural Connectors, listing product numbers and descriptions for various connection types.

NAIL SPECIFICATIONS

Table with columns for Nail Type, Nominal Diameter (Gage), Nominal Length, Min. Embed for P.W. Sheathing, and Min. Nail Length. Includes a diagram of a nail in a hole.

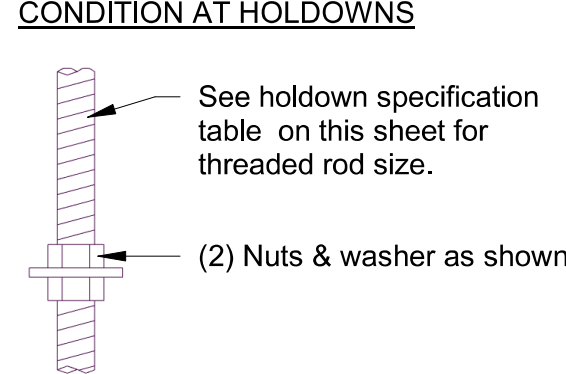
DETERMINE REQ'D NAIL DIAMETER AND LENGTH

Table with columns for Required Common Nail (8d, 10d), Plywood Thickness, Minimum Embedment, and Minimum Nail Length Required.

FOOTING AND STEMWALL REQUIREMENTS

- 8" Wide w/ (1) #4 continuous top and #4 at 48" o.c. vertical, hook at footing (alternate hooks).
All footings shall bear on undisturbed soil. Assumed soil bearing pressure is determined & increased in accordance w/ IBC Table 1806.2.
Exterior footings to be placed 24" below grade minimum, U.N.O.

THREADED ROD END CONDITION AT HOLDOWNS



HOLDOWN INFORMATION

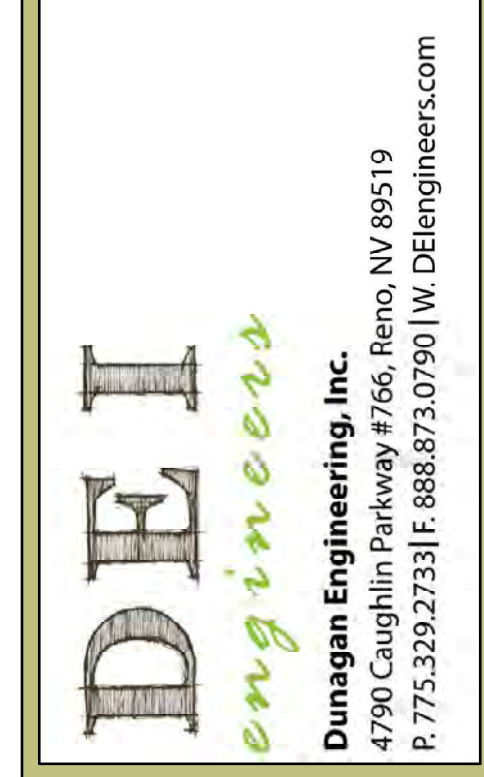
- See holdown schedule above and per plan.

SOILS & FOUNDATIONS:

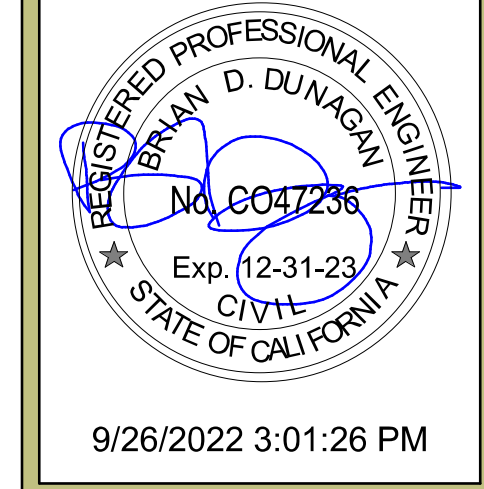
Dunagan Engineering, Inc. has not made a geotechnical review of the building site and is not responsible for general site stability or soil suitability for the proposed project. A review by a geological engineer or qualified civil engineer may be desirable.

REVISIONS

Table with columns for #, Date, Description, and By.



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9/26/2022 3:01:26 PM

Drawn by Brian Dunagan, E-6047236, State of California. Checked by Dunagan, Brian D. I have reviewed the document and it complies with the requirements of the State of California. 15-02-55-07-07

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THESE NOTES APPLY TO ALL SHEETS

- 1. It shall be the contractor's direct responsibility to comply with typical details and general notes as delineated or defined on the typical detail drawings of these contract documents regardless of specific flagging or reference to applicable note or detail.
2. It shall be the contractor's responsibility to coordinate with all trades regarding utilities passing through and under footings.
3. Top of footing elevations noted are minimum. See note 2 for additional requirements.
4. Contractor to verify and coordinate all locations and sizes of openings in slabs, slab depressions, and curbs for all related construction prior to floor layout or construction.

SPECIAL INSPECTIONS AND DEFERRED SUBMITTALS:

- a. Special inspection, per the California Building Code chapter 17, Table 1704.A.3 for steel and 1704.4 for concrete shall be required for the following types of work.
b. All concrete work for strengths greater than 2500 psi, except for slabs on grade, footings and non structural concrete.
c. All reinforcing steel for concrete strengths greater than 2500 psi.
d. All field welding (except metal studs, furring channels, etc.).

SHEET INDEX

Table with columns for sheet number and description: S0.1 GENERAL NOTES & TYPICAL DETAILS, S0.2 TYPICAL DETAILS, S0.3 TYPICAL DETAILS / DETAILS, S0.4 DETAILS, S1.1 FOUNDATION PLAN / LOWER FLOOR STRUCTURAL PLAN, S1.2 LOWER FLOOR FRAMING PLAN / UPPER FLOOR STRUCTURAL PLAN, S2.1 UPPER ROOF FRAMING PLAN.

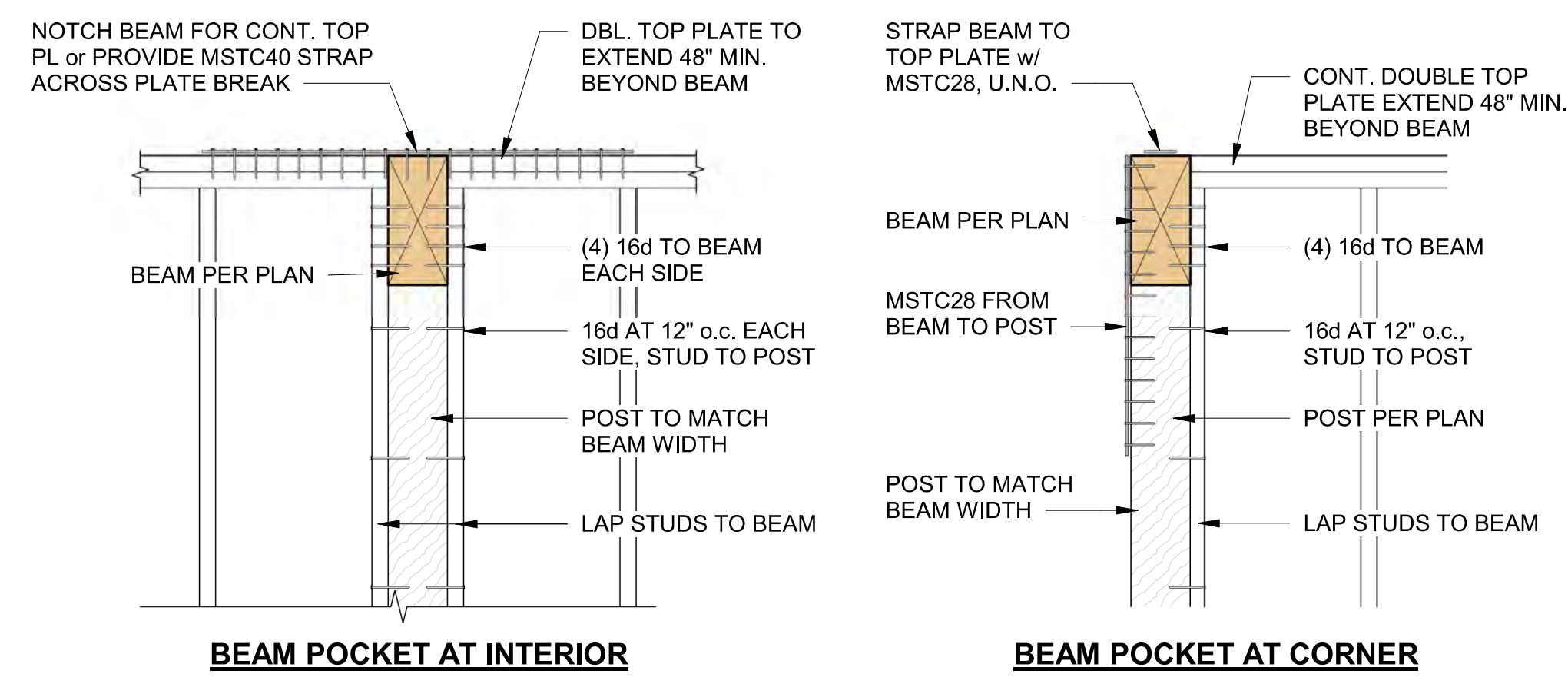
SUBMITTAL SET

Table with columns for DRAWN BY (CSB), CHECKED BY (BDD), DATE (9-26-22), SCALE (AS NOTED), JOB NO. (B22000), SHEET NO.

Table with columns for GENERAL NOTES & TYPICAL DETAILS, SHEET NO.

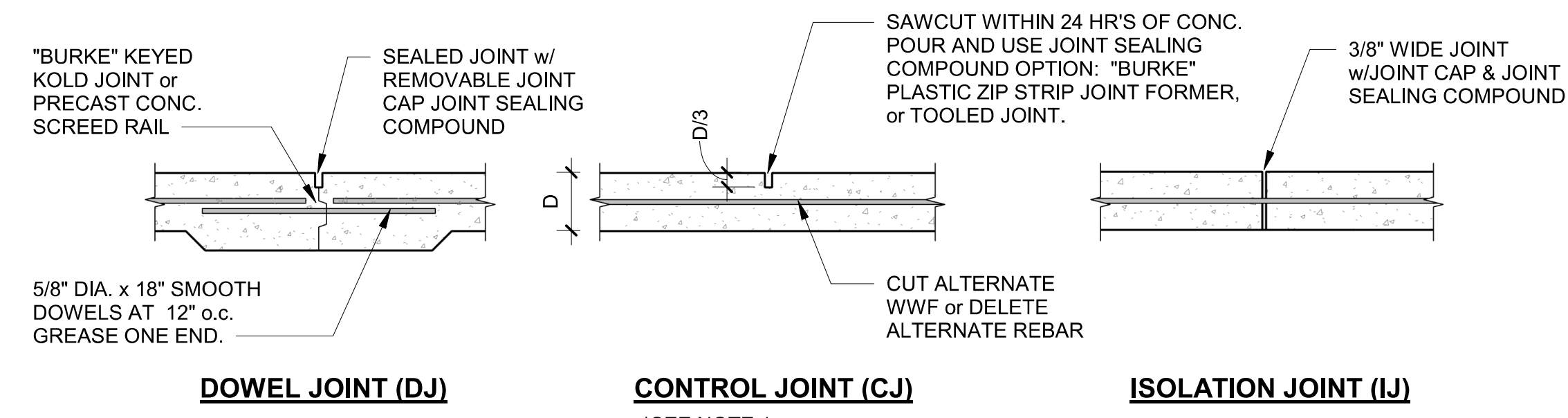
S0.1 SHEET of SHEETS

PLEASE RECYCLE



10 BEAM POCKET

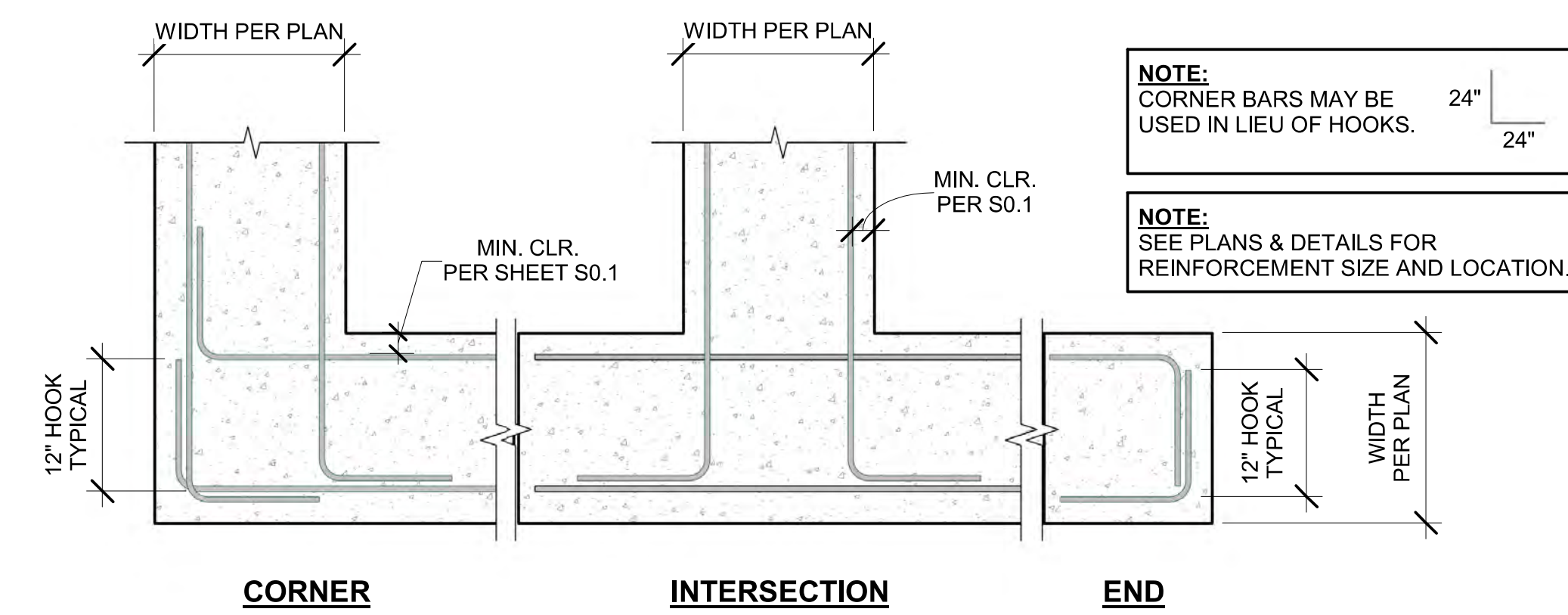
3/4" = 1'-0"



9 SLAB JOINTS

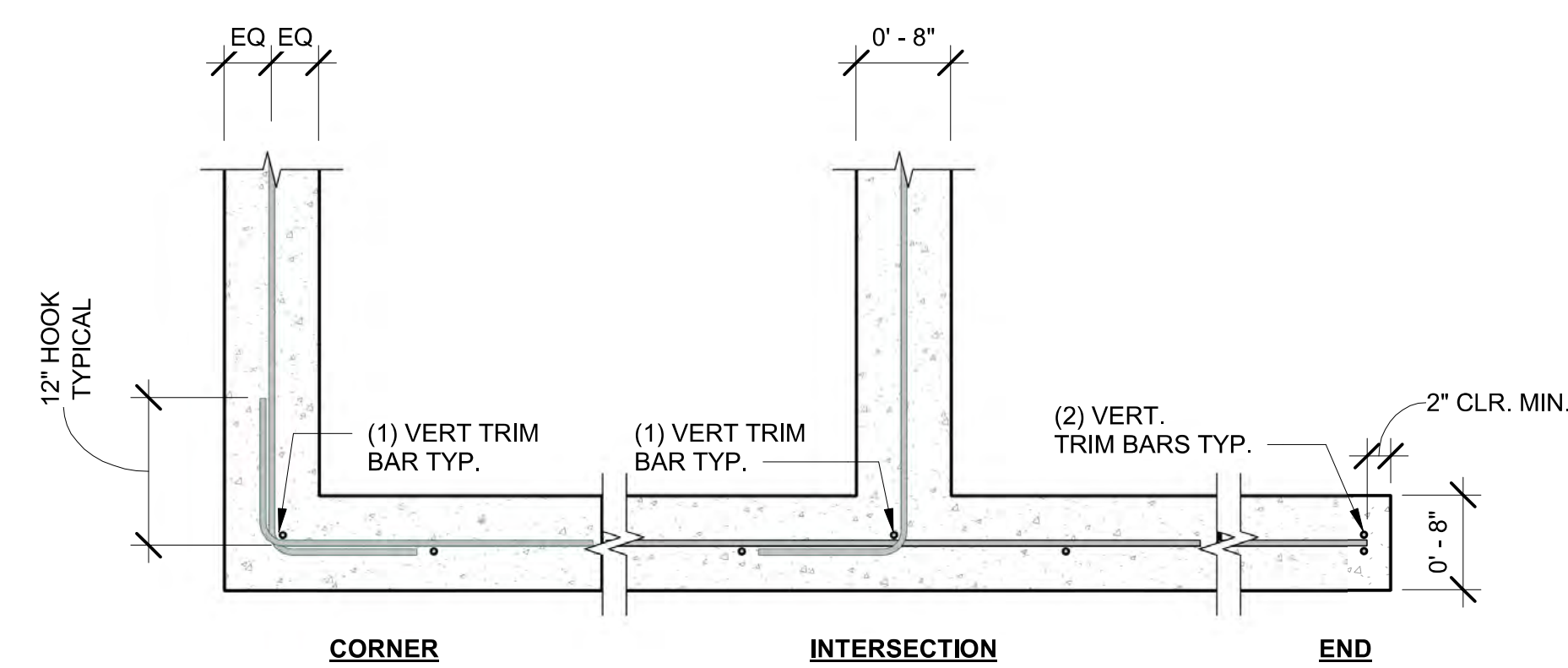
3/4" = 1'-0"

NOTE:
1. PLACE CONCRETE SLAB ON GRADE IN MONOLITHIC POURS IN LARGEST AREAS FEASIBLE. WHERE POURS AND THUS COLD JOINTS OCCUR, USE DOWEL JOINT SEE (DJ) ABOVE



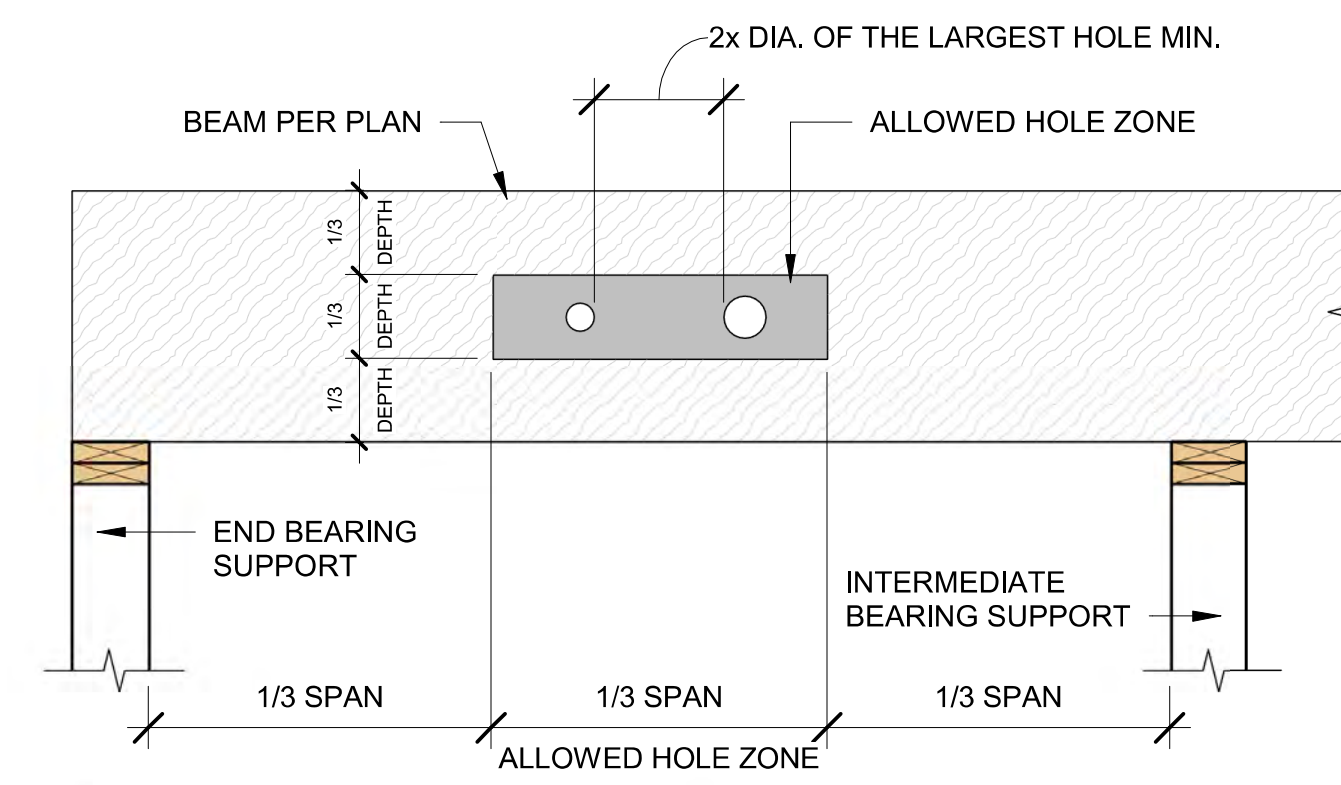
8 LAP FOOTING REINFORCING

3/4" = 1'-0"



7 STEMWALL REINFORCING

3/4" = 1'-0"

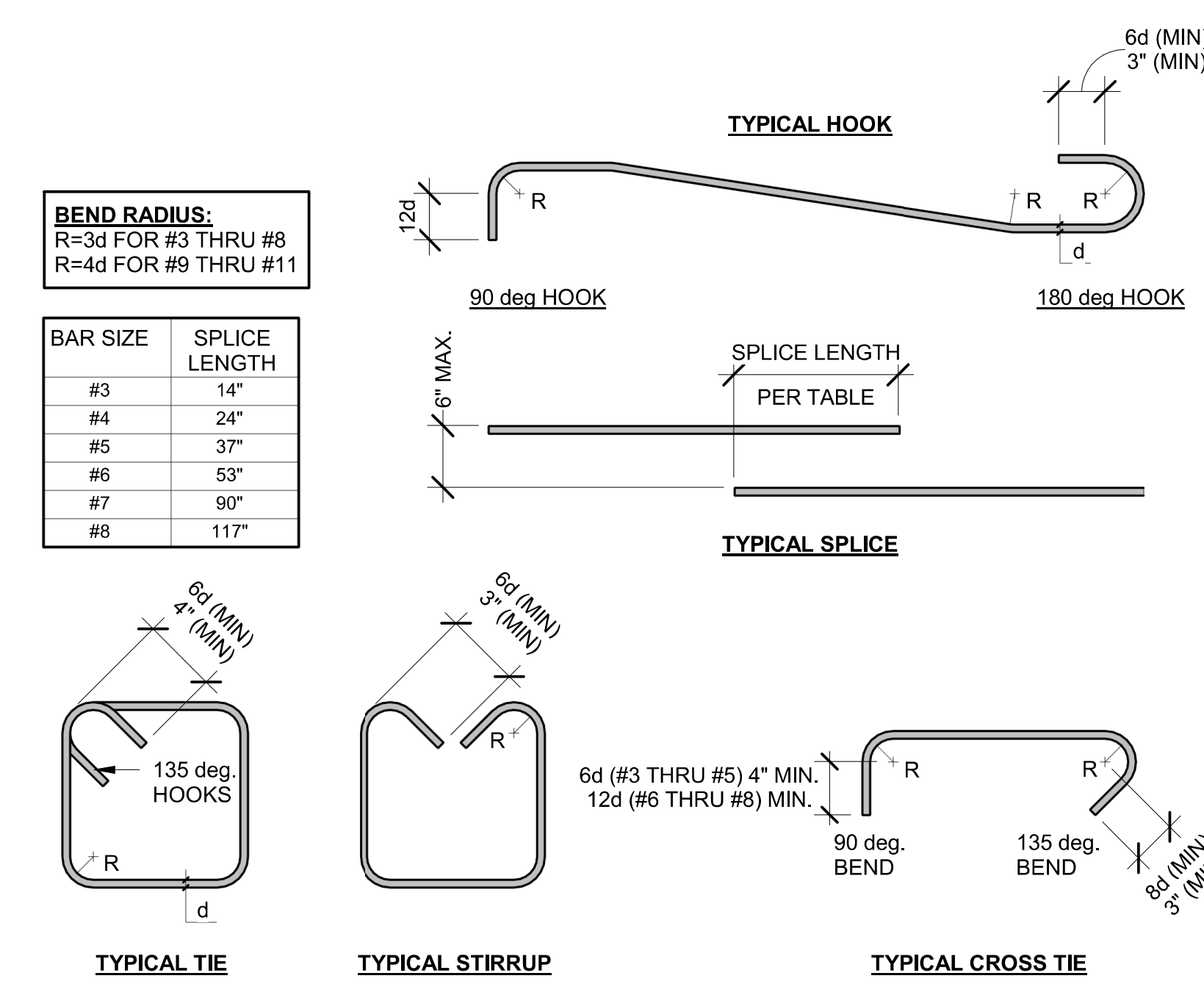


BEAM DEPTH	MAX DIA. HOLE SIZE
5-1/2"	3/4"Ø
7-1/4"	1"Ø
9-1/4" & GREATER	2"Ø

- NOTES:
- DO NOT CUT, NOTCH, OR DRILL BEAM, EXCEPT AS INDICATED WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
 - SQUARE & RECTANGULAR HOLES ARE NOT PERMITTED.
 - ROUND HOLES MAY BE DRILLED OR CUT WITH A HOLE SAW ANYWHERE WITHIN THE ALLOWED HOLE ZONE OF THE BEAM.
 - THE HORIZONTAL DISTANCE BETWEEN ADJACENT HOLES MUST BE AT LEAST TWO TIMES THE SIZE OF THE LARGER HOLE.
 - DO NOT CUT MORE THAN THREE ACCESS HOLES IN ANY FOUR FOOT LONG SECTION OF BEAM.
 - THESE LIMITATIONS APPLY TO HOLES DRILLED FOR PLUMBING OR WIRING ACCESS ONLY. THE SIZE AND LOCATION OF HOLES DRILLED FOR FASTENERS ARE GOVERNED BY THE PROVISIONS OF THE NDS FOR WOOD CONSTRUCTION.
 - BEAMS DEFLECT UNDER LOAD. SIZE HOLES TO PROVIDE CLEARANCE WHERE REQUIRED.
 - THE HOLE CHART IS VALID FOR BEAMS SUPPORTING UNIFORM LOAD ONLY. FOR BEAMS SUPPORTING CONCENTRATED LOADS OR FOR BEAMS WITH LARGER HOLES, CONTACT ENGINEER OF RECORD.
 - DO NOT PLACE HOLES BELOW POSTS ABOVE ON BEAMS.
 - HOLES IN CANTILEVERS REQUIRE ADDITIONAL ANALYSIS.

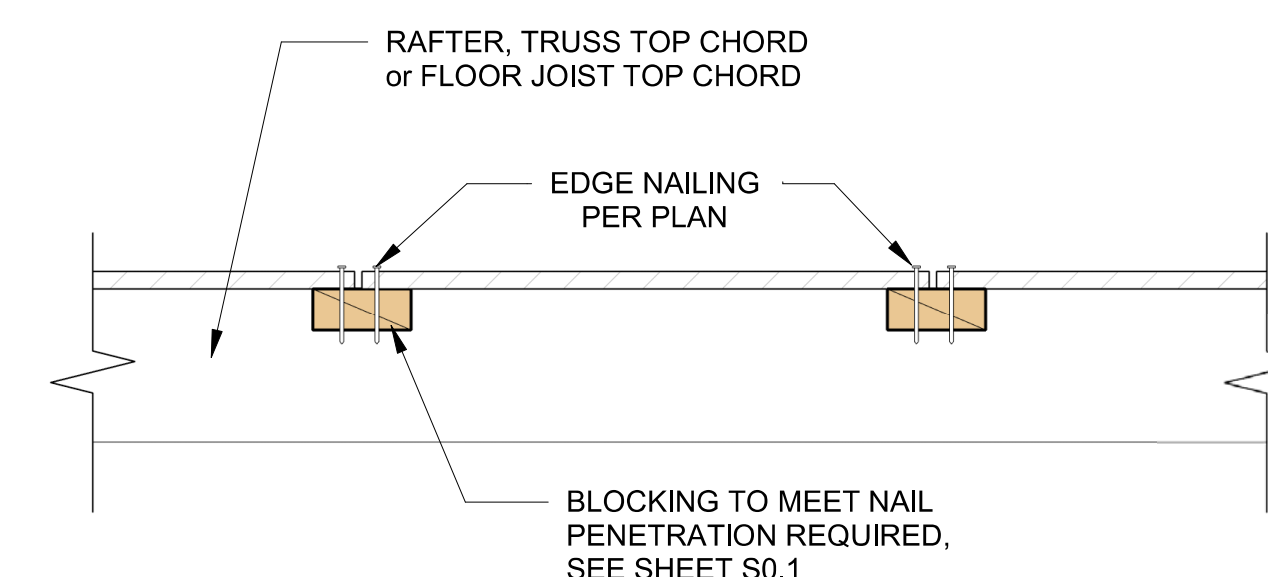
6 HOLES IN BEAM

3/4" = 1'-0"



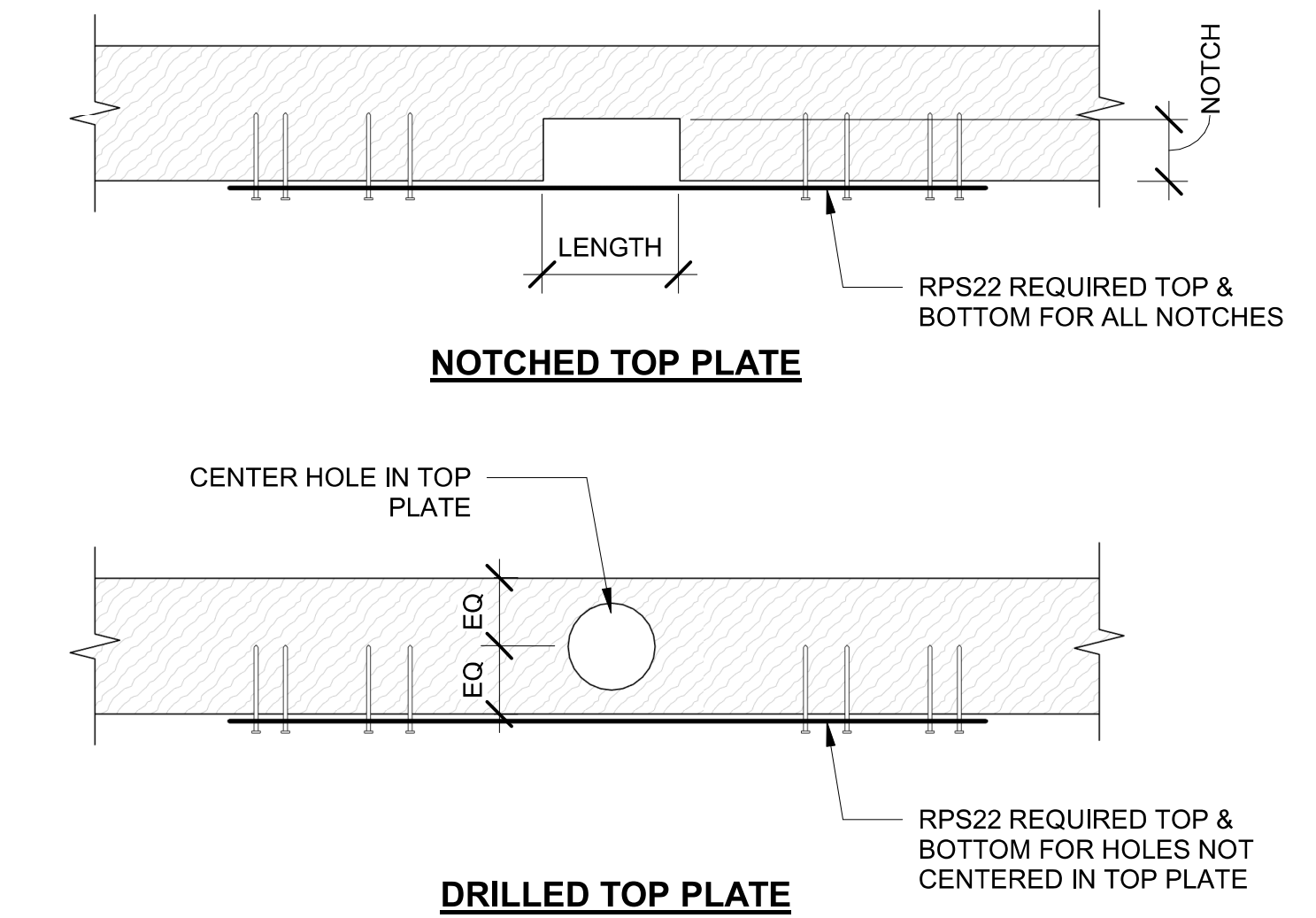
5 REBAR BENDS & LAP REQUIREMENTS

3/4" = 1'-0"



4 BLOCKED DIAPHRAGM

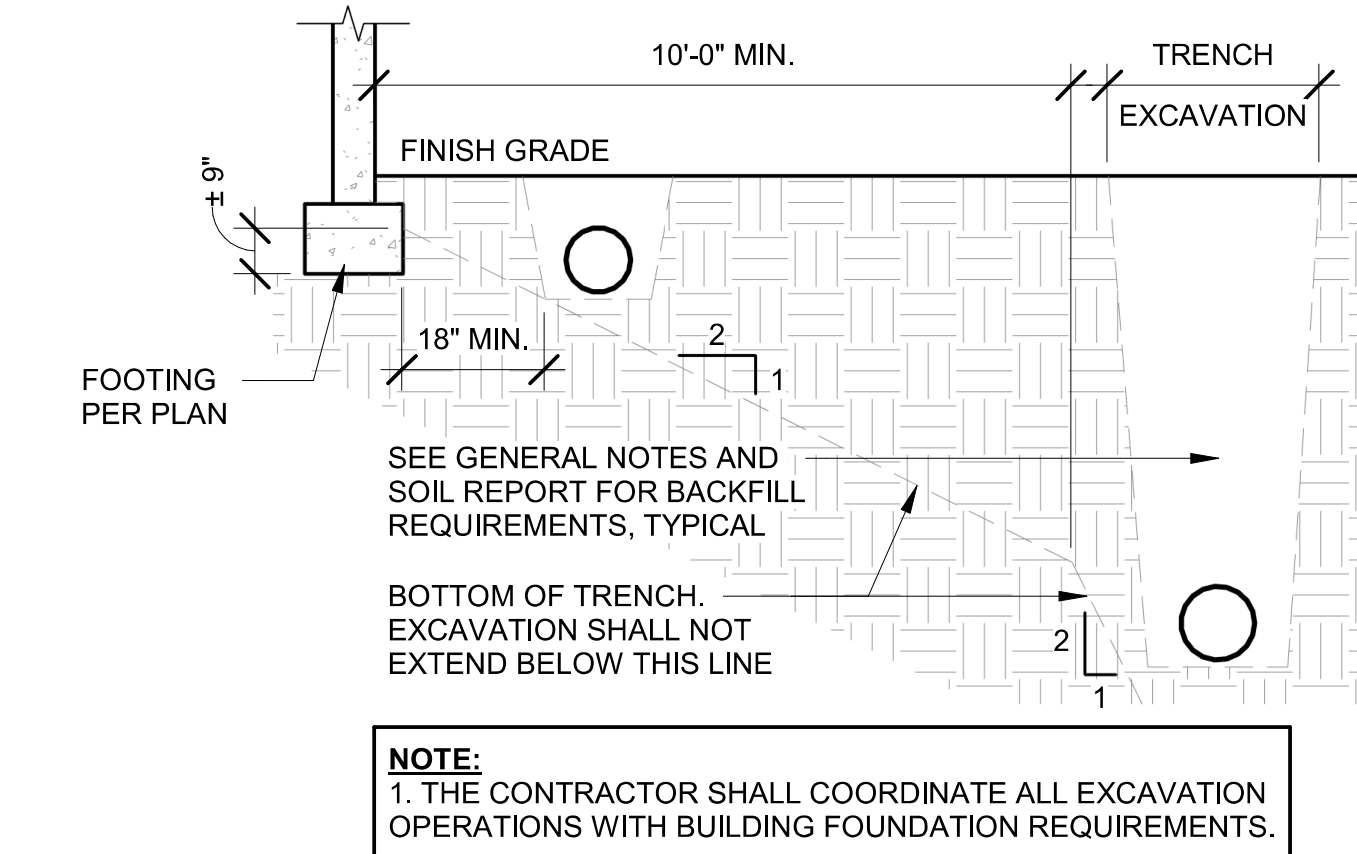
1 1/2" = 1'-0"



WALL TYPE	MAX. NOTCH	MAX. DRILLED HOLE
2x4 BEARING	1 1/2" x 5 1/2"	1 1/2" DIA AT CL.
2x4 NON-BEARING	2 1/2" x 5 1/2"	2 1/2" DIA AT CL.
2x6 BEARING	2 1/2" x 5 1/2"	3 1/2" DIA AT CL.
2x6 NON-BEARING	3 1/2" x 5 1/2"	4" DIA AT CL.

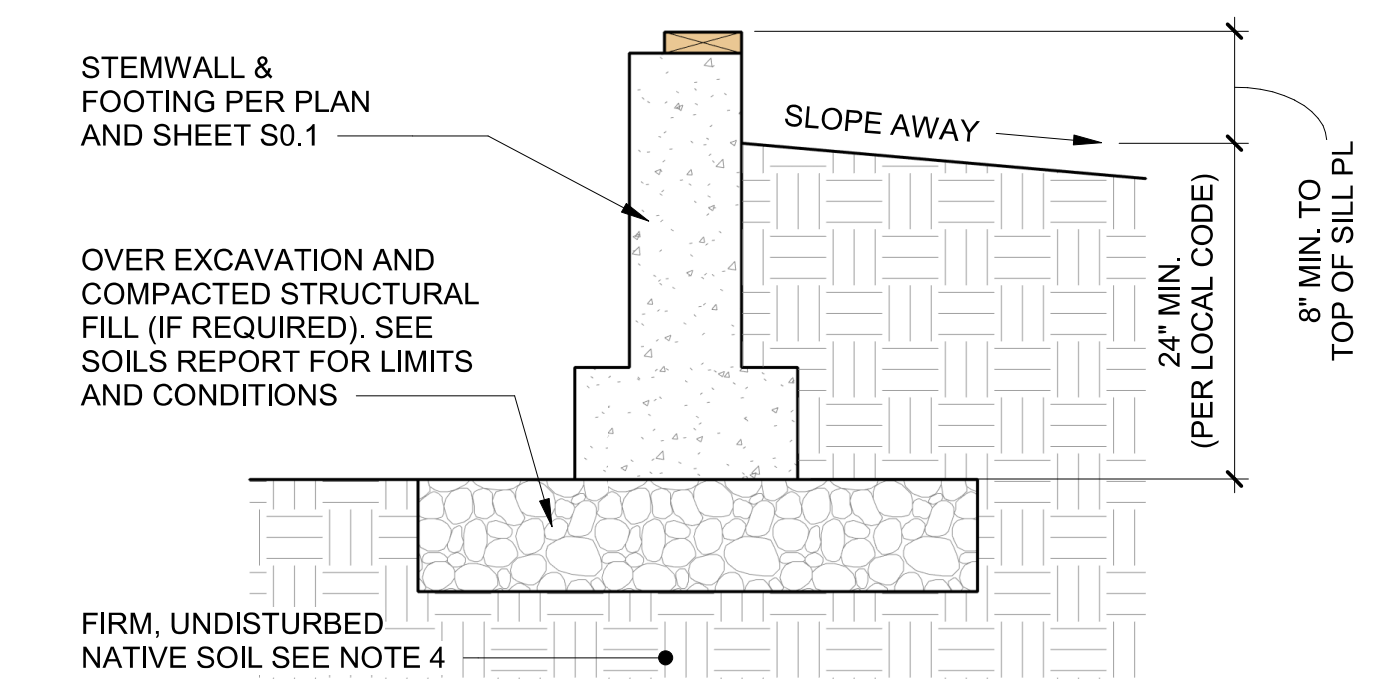
3 NOTCH IN TOP PLATE

1 1/2" = 1'-0"



2 EXCAVATION PARALLEL TO FOOTING

3/4" = 1'-0"



- NOTES:
- REFERENCE FOUNDATION NOTES ON SHEET S0.1 FOR ALL SOILS AND FOUNDATION REQUIREMENTS.
 - PROVIDE COMPACTED STRUCTURAL FILL BENEATH CONTINUOUS AND SPREAD FOOTINGS IF REQUIRED (SEE SOILS REPORT)
 - SEE THE PROJECT SOILS REPORT, GRADING PLANS AND SHEET S0.1 FOR ALL SOILS REQUIREMENTS INCLUDING COMPACTION, FILL AND ALL OTHER REQUIREMENTS.
 - NATIVE SOIL SHOULD BE SCARIFIED A MINIMUM OF 12" AND BROUGHT TO NEAR OPTIMUM MOISTURE CONTENT AND COMPACTED TO AT LEAST 90% OF RELATIVE COMPACTION.

1 TYPICAL SOIL PREPARATION

3/4" = 1'-0"

REVISIONS

#	Date	Description	By

DEI *engineers*
Dunagan Engineering, Inc.
4790 Caughlin Parkway #166, Reno, NV 89519
P: 775.329.2733 | F: 888.873.0799 | W: DeIengineers.com

REGISTERED PROFESSIONAL ENGINEER
BRYAN D. DUNAGAN
No. C047236
Exp. 12-31-23
CIVIL
STATE OF CALIFORNIA

9/26/2022 3:01:27 PM

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SHEET NO.	

TYPICAL DETAILS

S0.2
SHEET of SHEETS

PLEASE RECYCLE

REVISIONS			
#	Date	Description	By

DEI
engineers

Dunagan Engineering, Inc.
4790 Caughlin Parkway #166, Reno, NV 89519
P: 775.329.2733 | F: 888.873.0799 | W: DeIengineers.com

STRUCTURAL ONLY

REGISTERED PROFESSIONAL ENGINEER
BRYAN D. DUNAGAN
No. C047236
Exp. 12-31-23
CIVIL
STATE OF CALIFORNIA

9/26/2022 3:01:29 PM

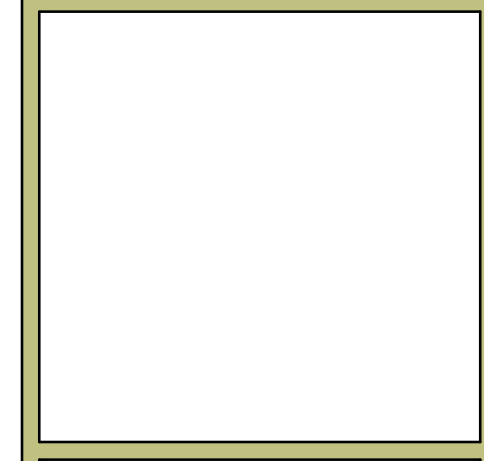
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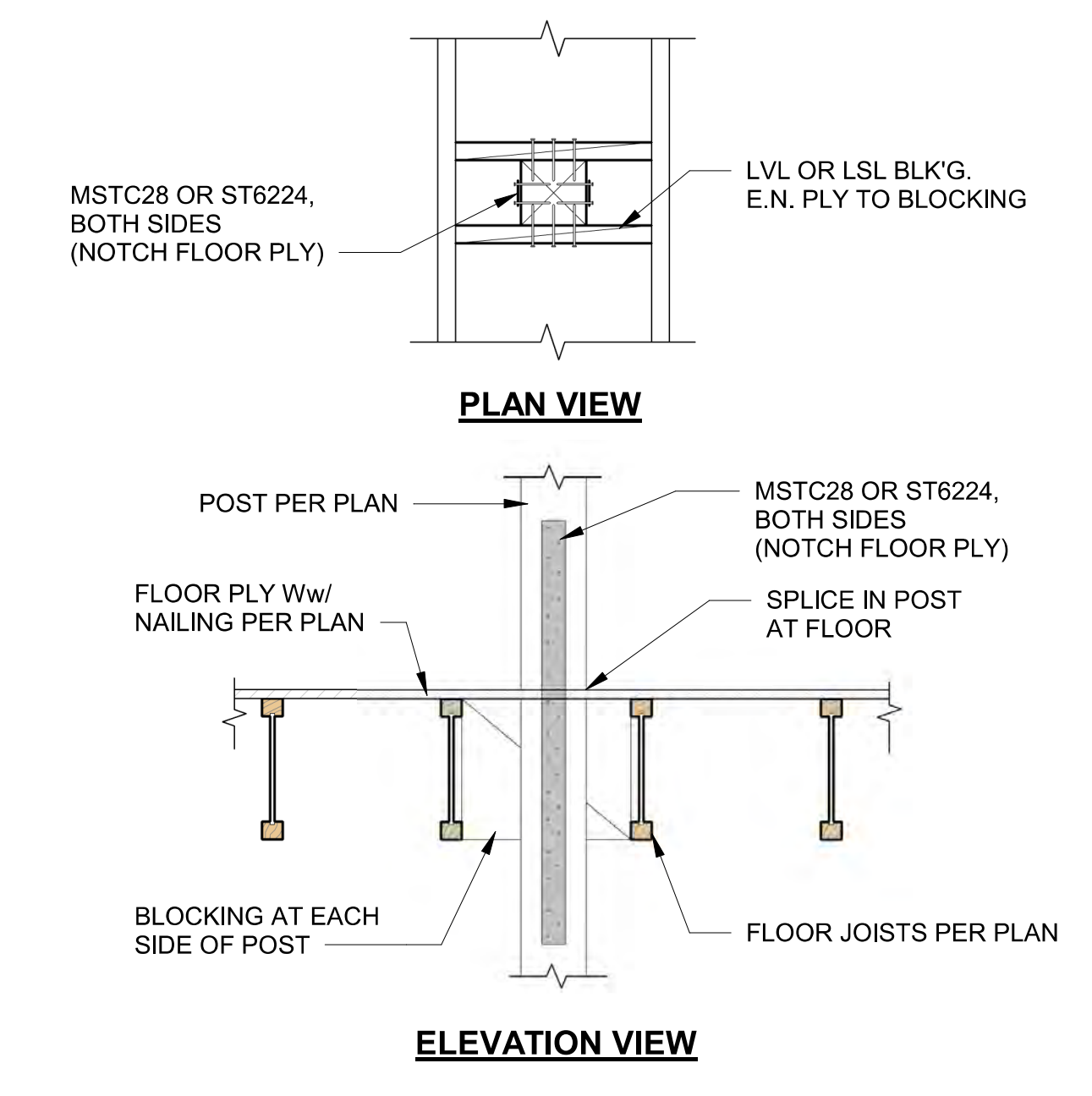
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DATE	9-26-22
SCALE	AS NOTED
JOB NO.	B22000
SHEET NO.	

TYPICAL DETAILS / DETAILS



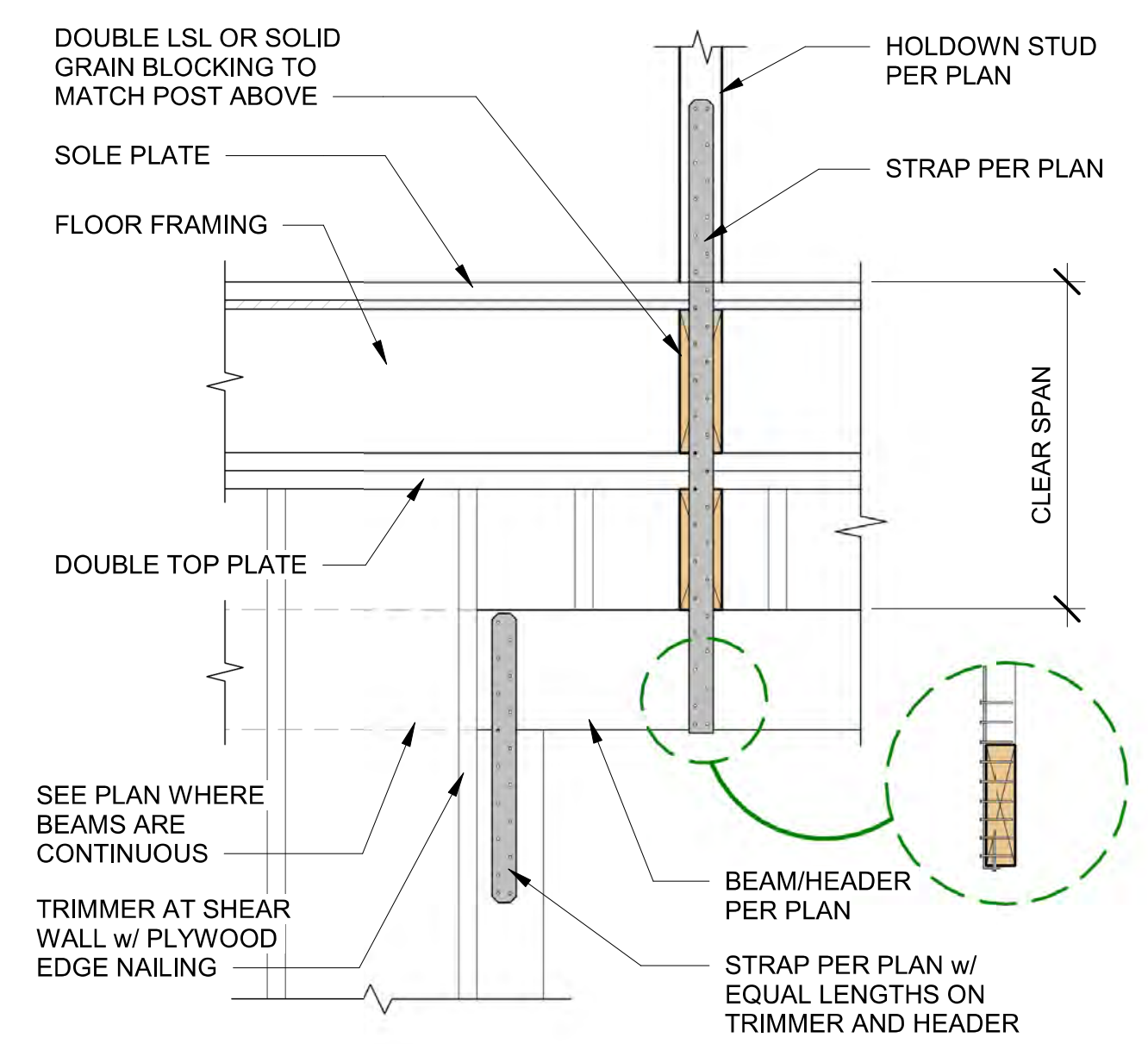
S0.3
SHEET of SHEETS

PLEASE RECYCLE

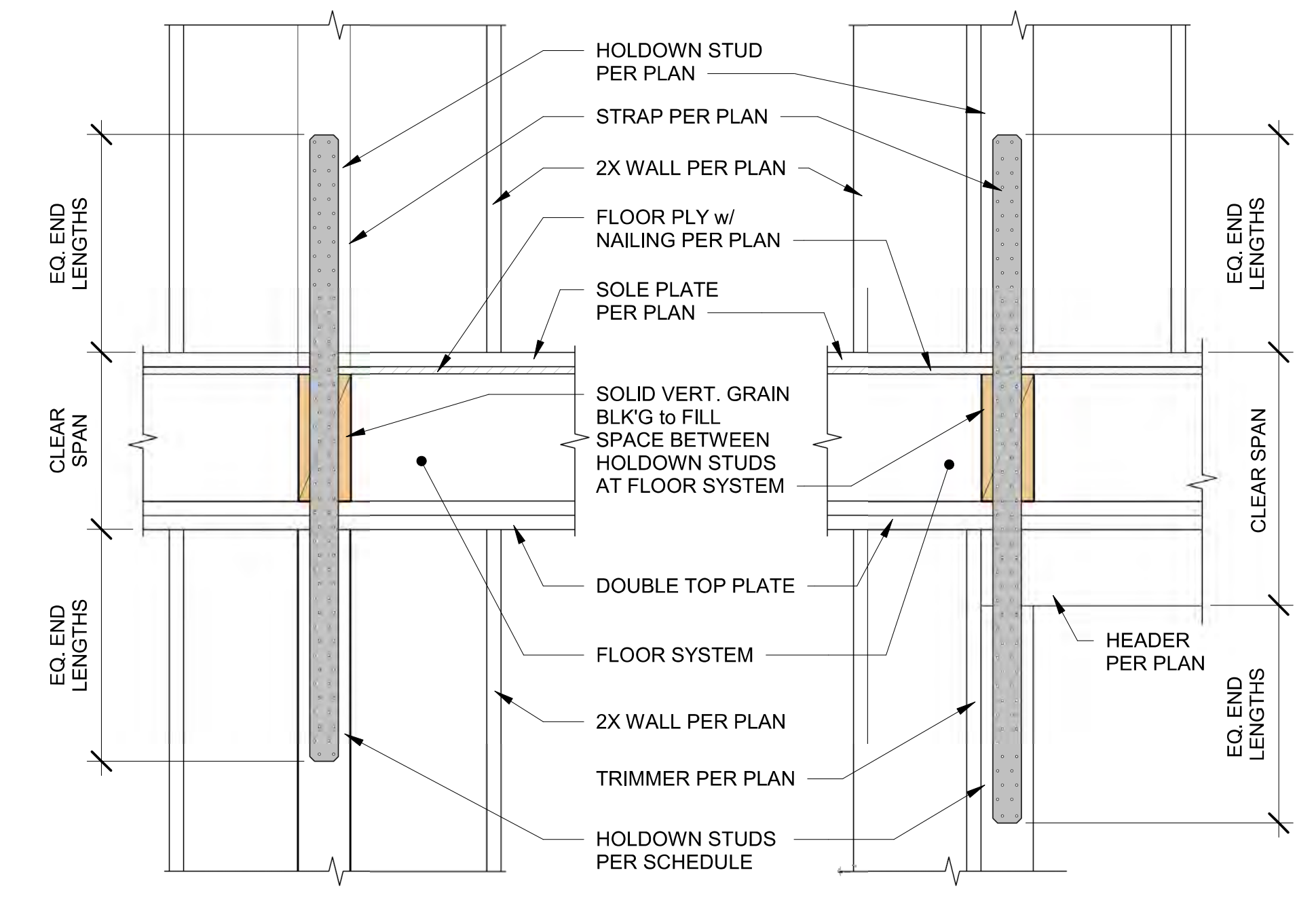


3 POST SPLICE AT FLOOR
3/4" = 1'-0"

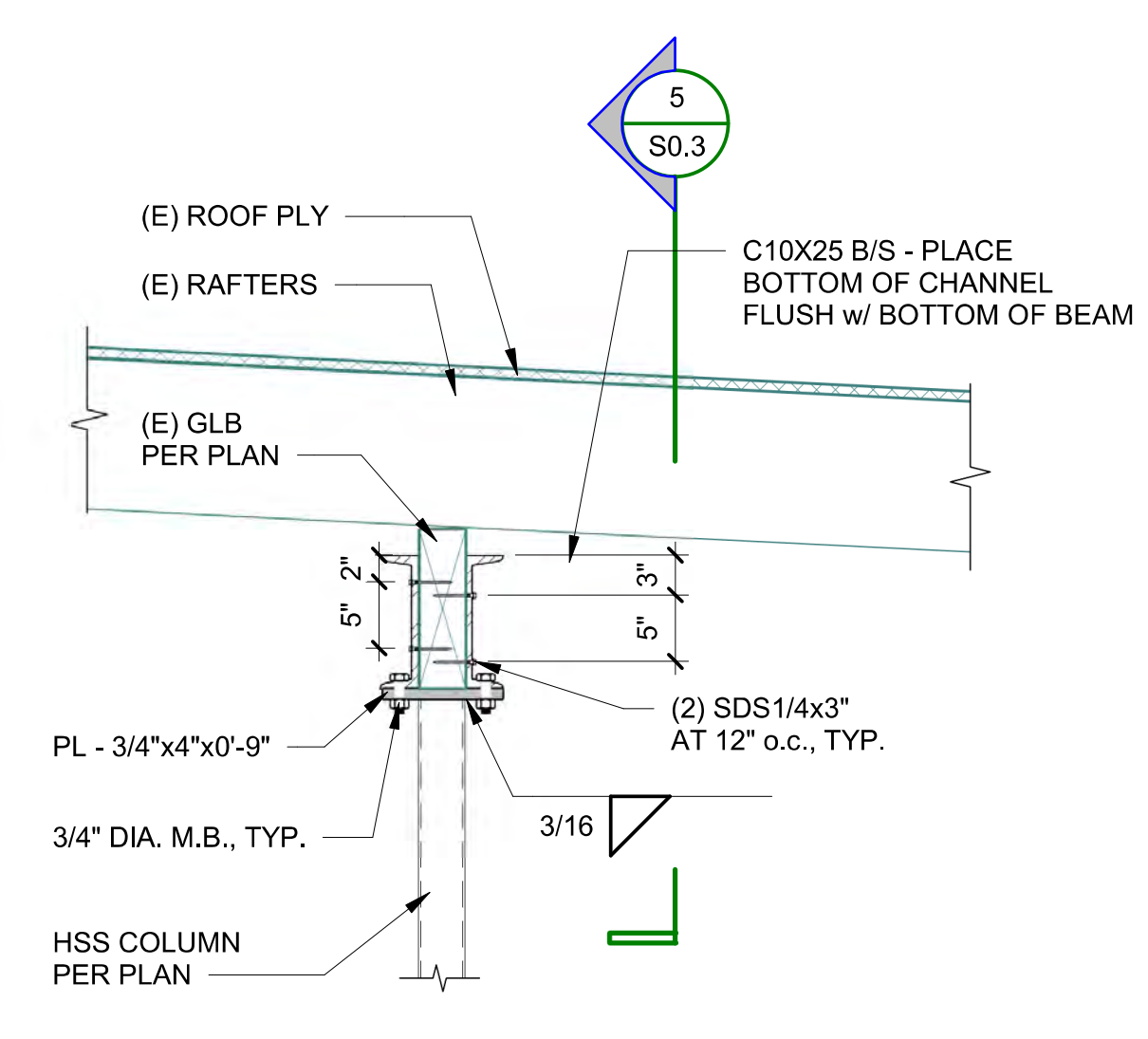
NOTE: RESPONSIBILITY TO COMPLY WITH TYPICAL DETAILS AND GENERAL NOTES AS DELINEATED OR DEFINED ON THE TYPICAL DETAIL DRAWINGS OF THESE CONTRACT DOCUMENTS REGARDLESS OF SPECIFIC FLAGGING OR REFERENCE TO APPLICABLE NOTE OR DETAIL.



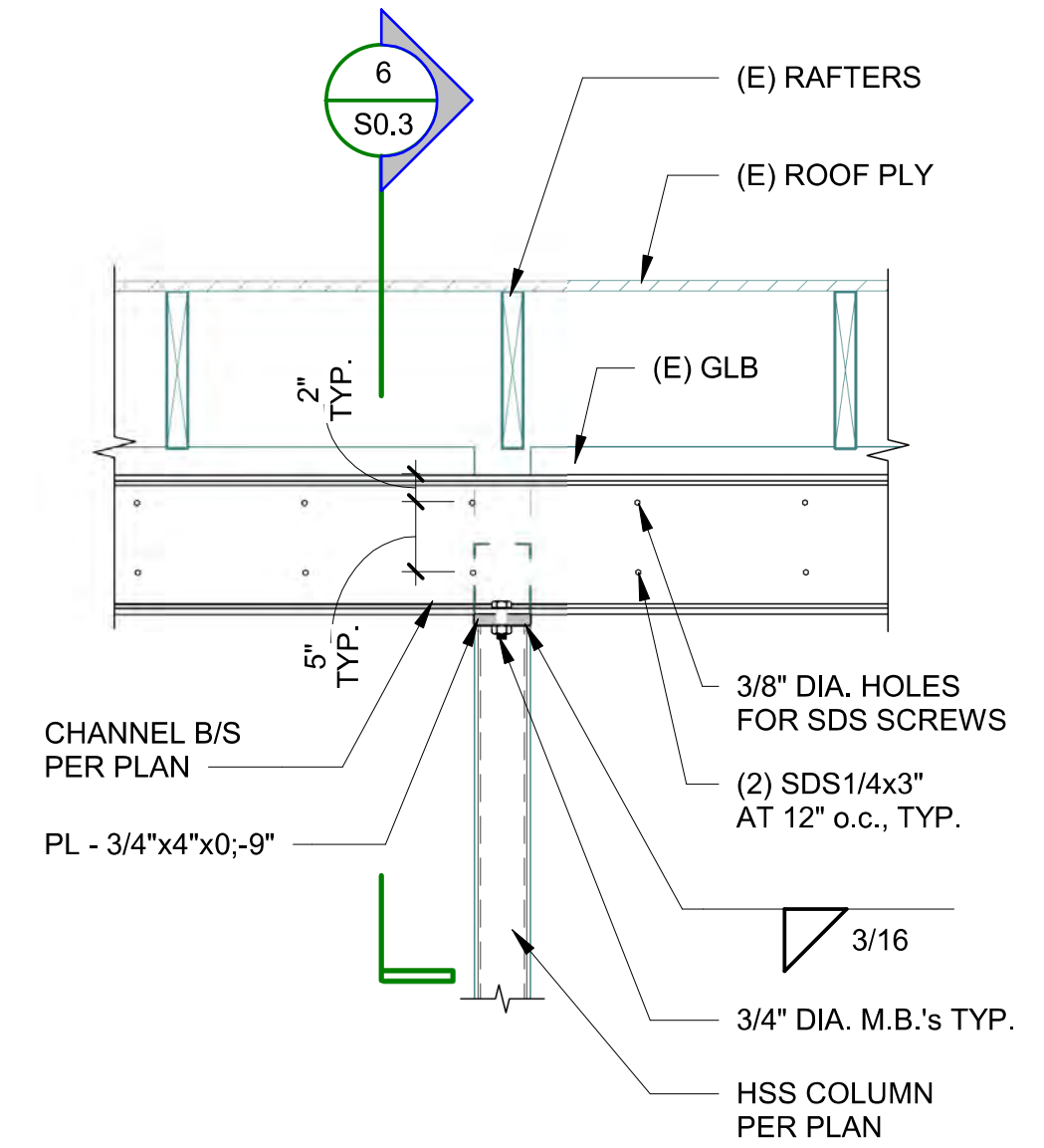
2 STRAP CONNECTION TO HEADER/ BEAM
3/4" = 1'-0"



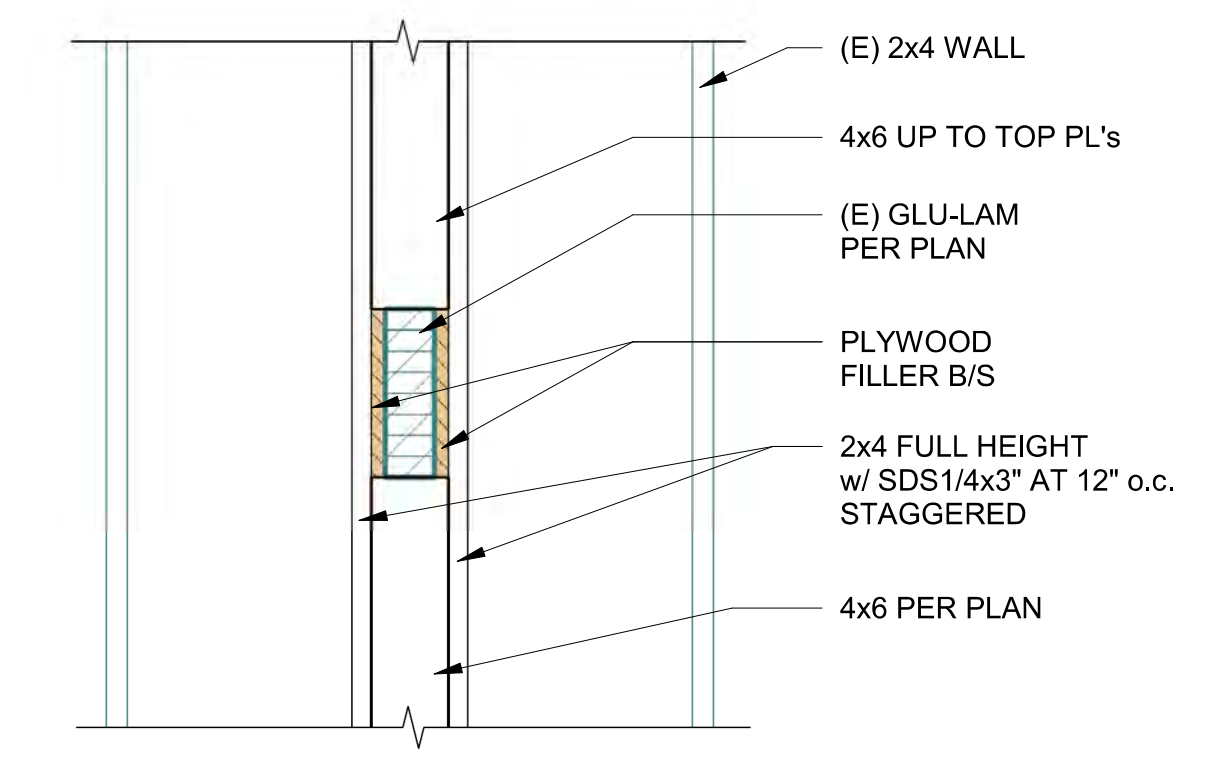
1 STRAP ACROSS FLOOR
3/4" = 1'-0"



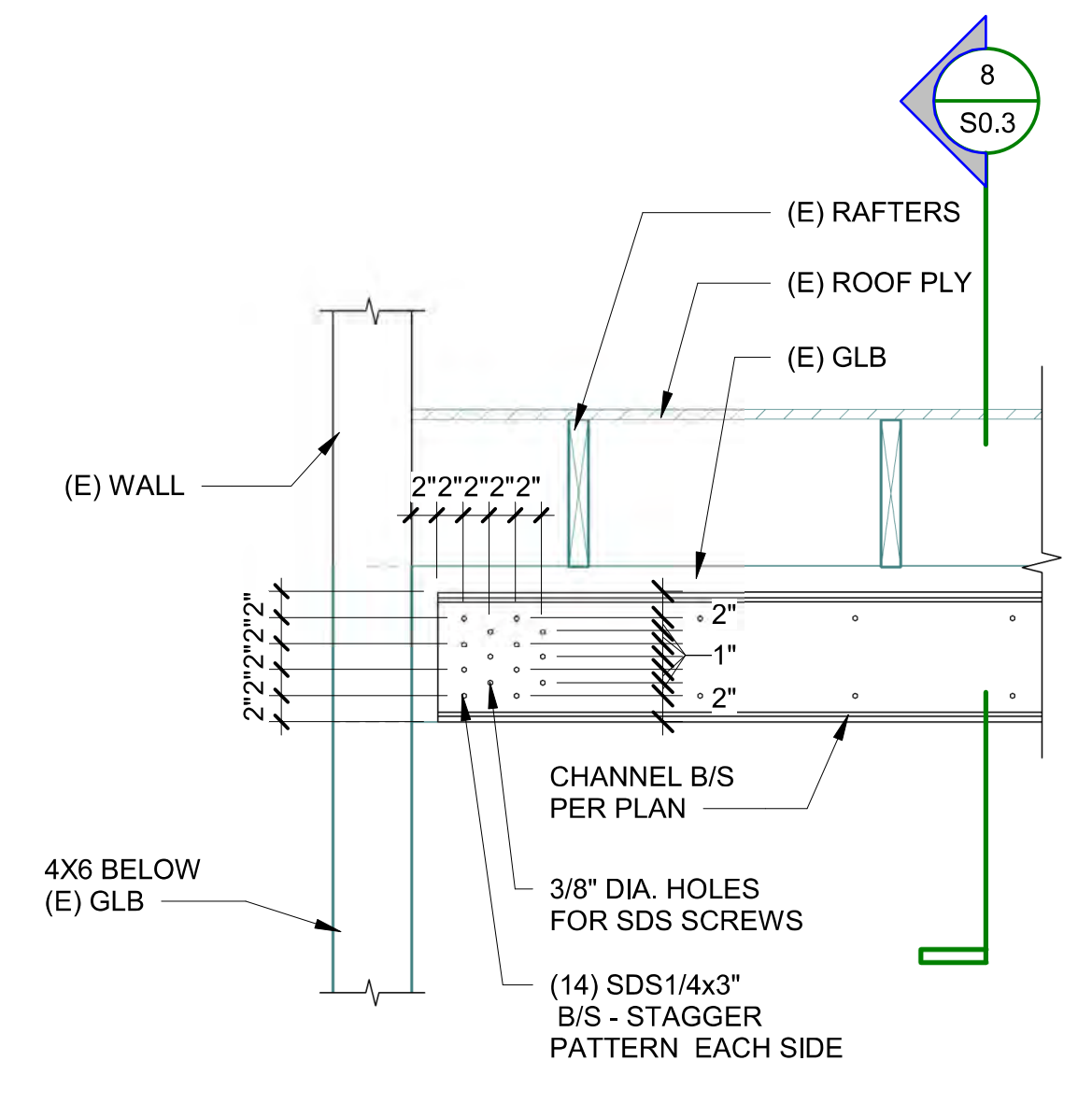
6 HSS BEAM SECTION
3/4" = 1'-0"



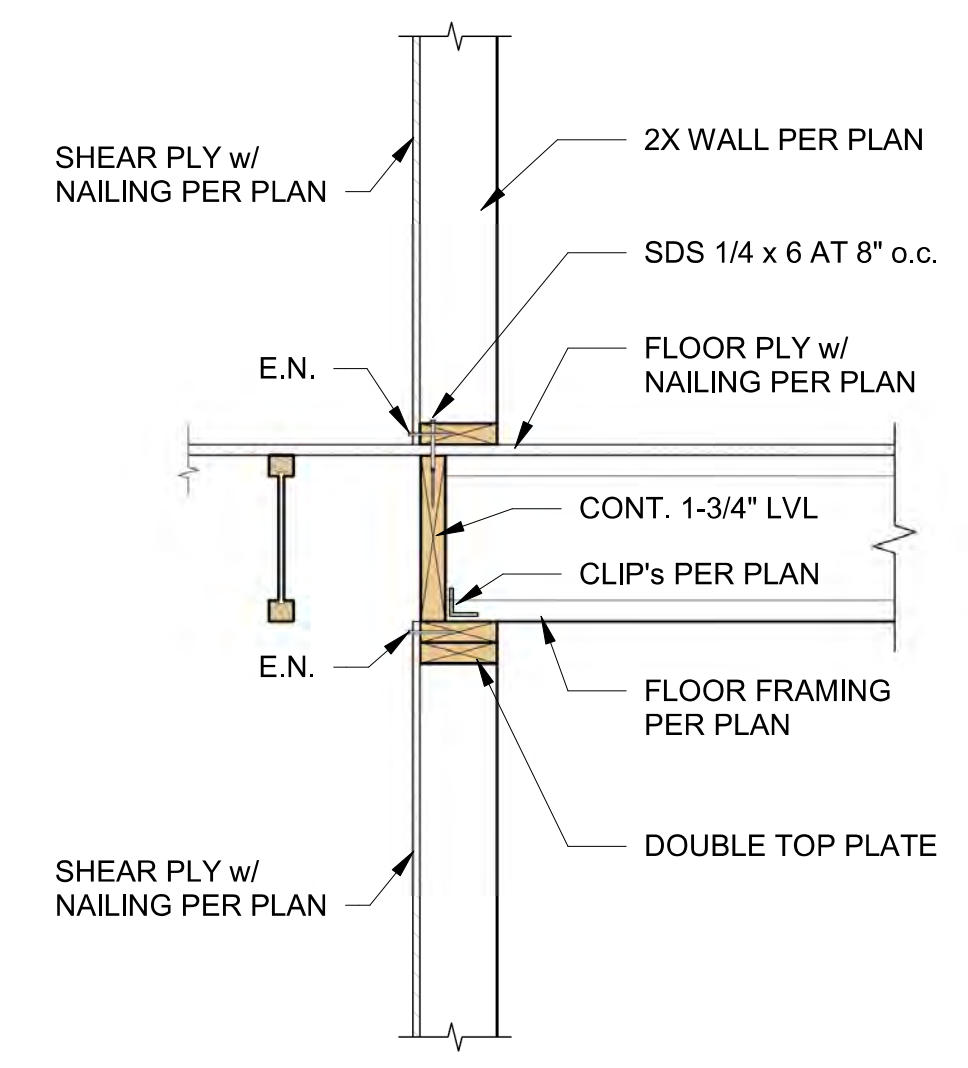
5 HSS TO (E) BEAM
3/4" = 1'-0"



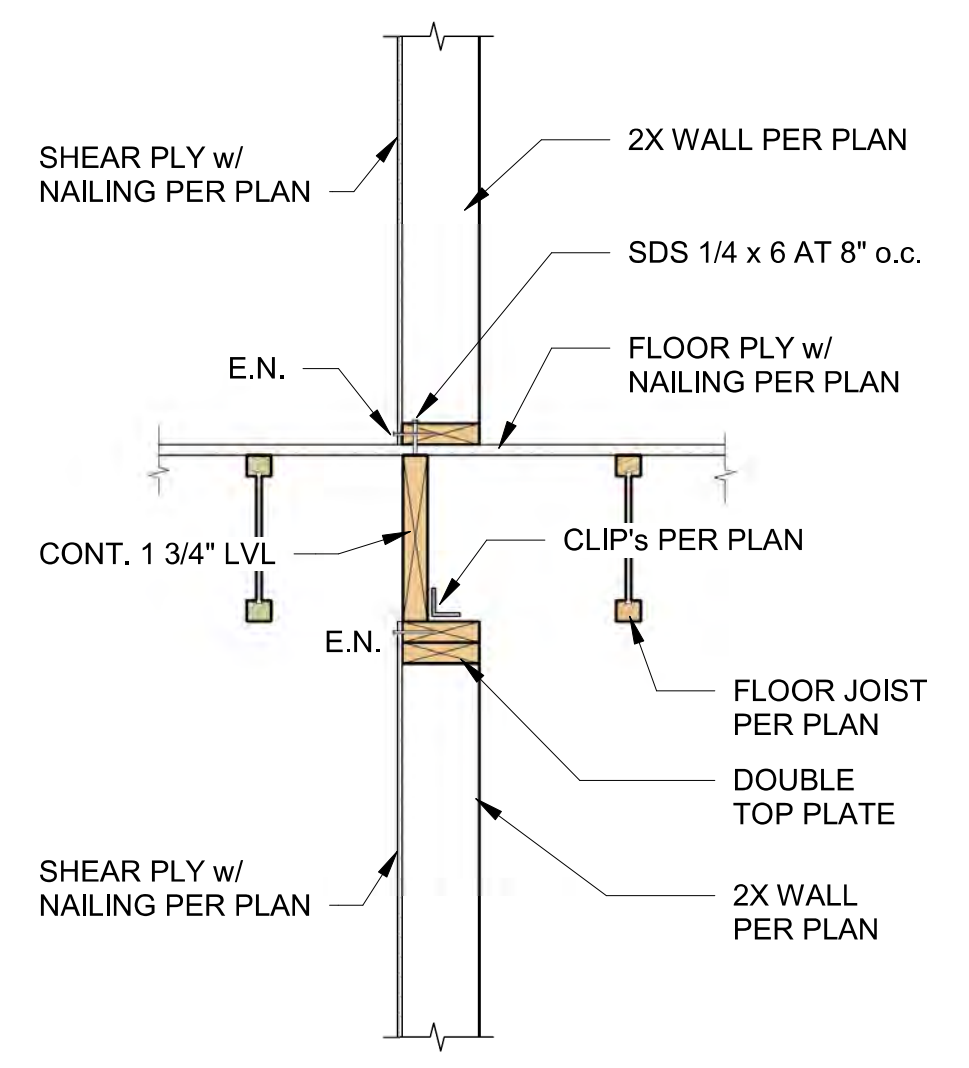
8 BEAM POCKET
3/4" = 1'-0" 240-014M



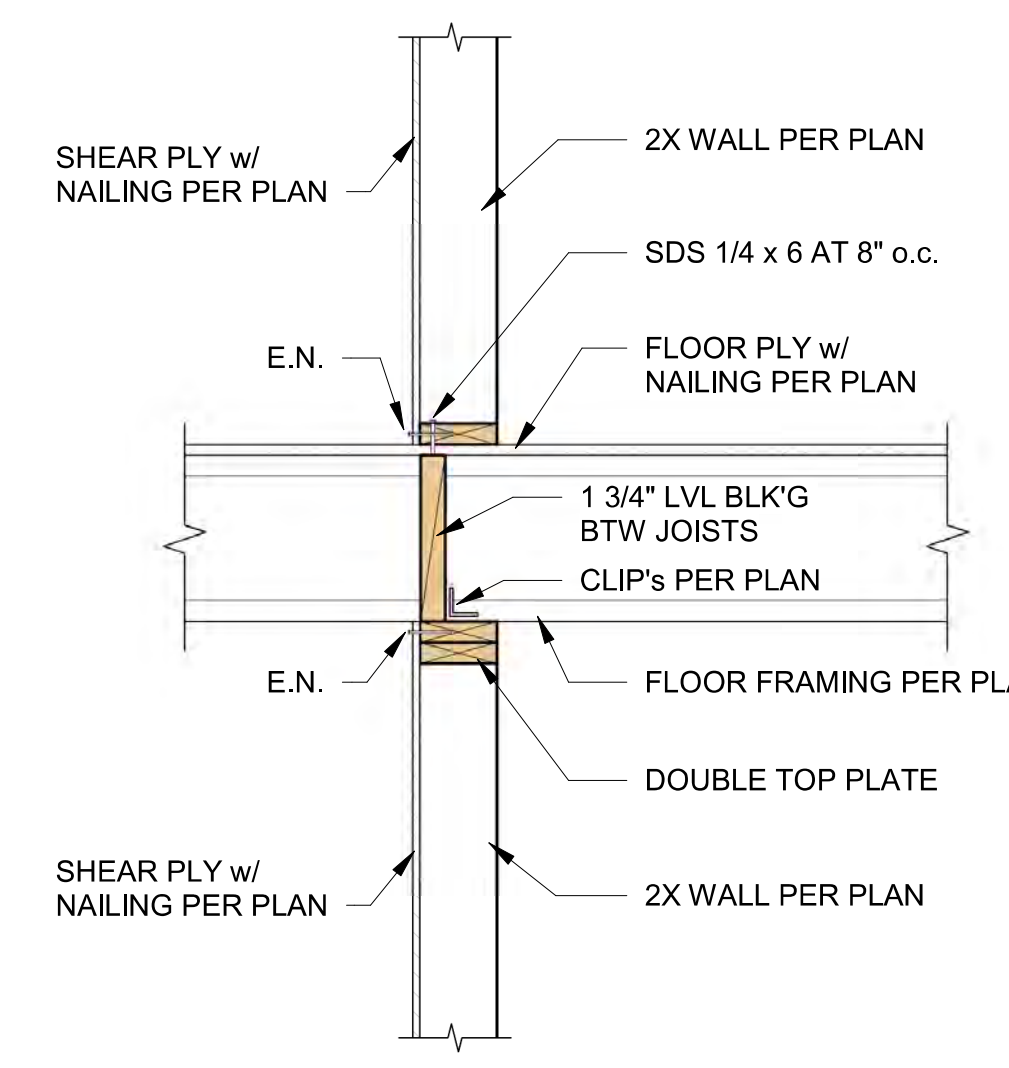
7 BEAM POCKET
3/4" = 1'-0"



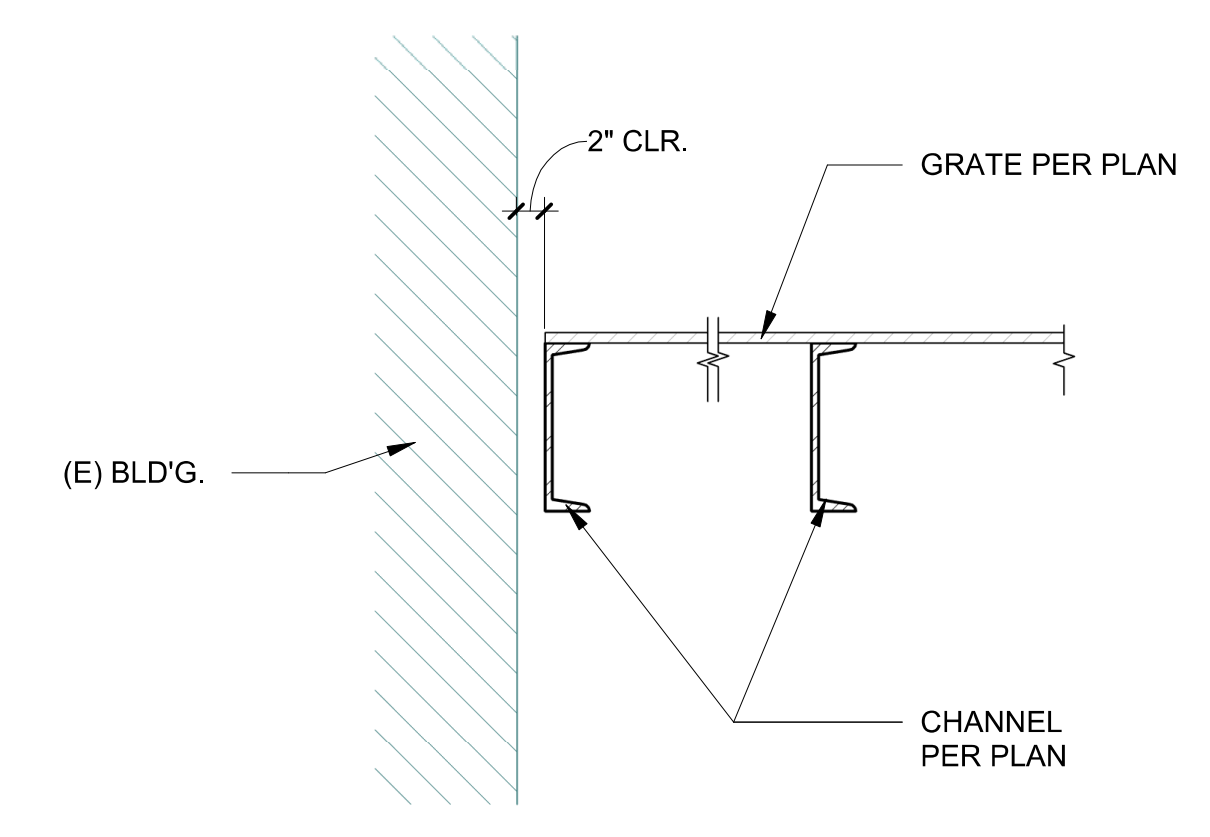
4 UPPER FLOOR INTERIOR SHEAR TRANSFER
3/4" = 1'-0"



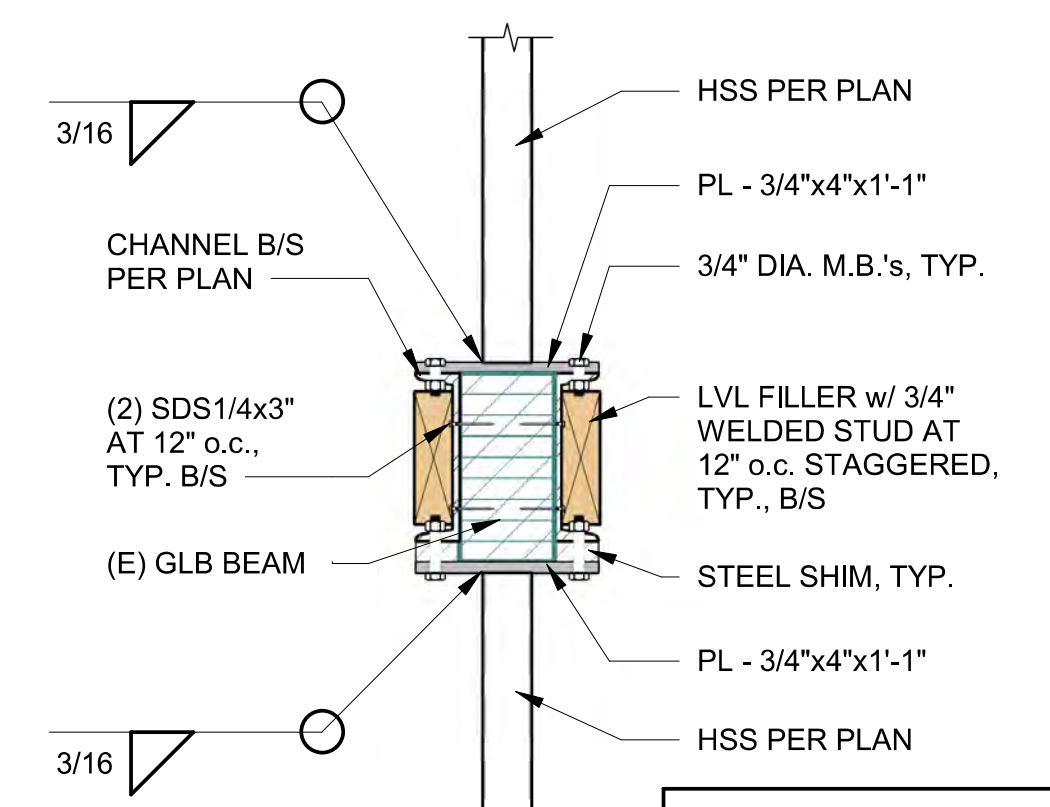
JOISTS PARALLEL w/ SHEAR WALL



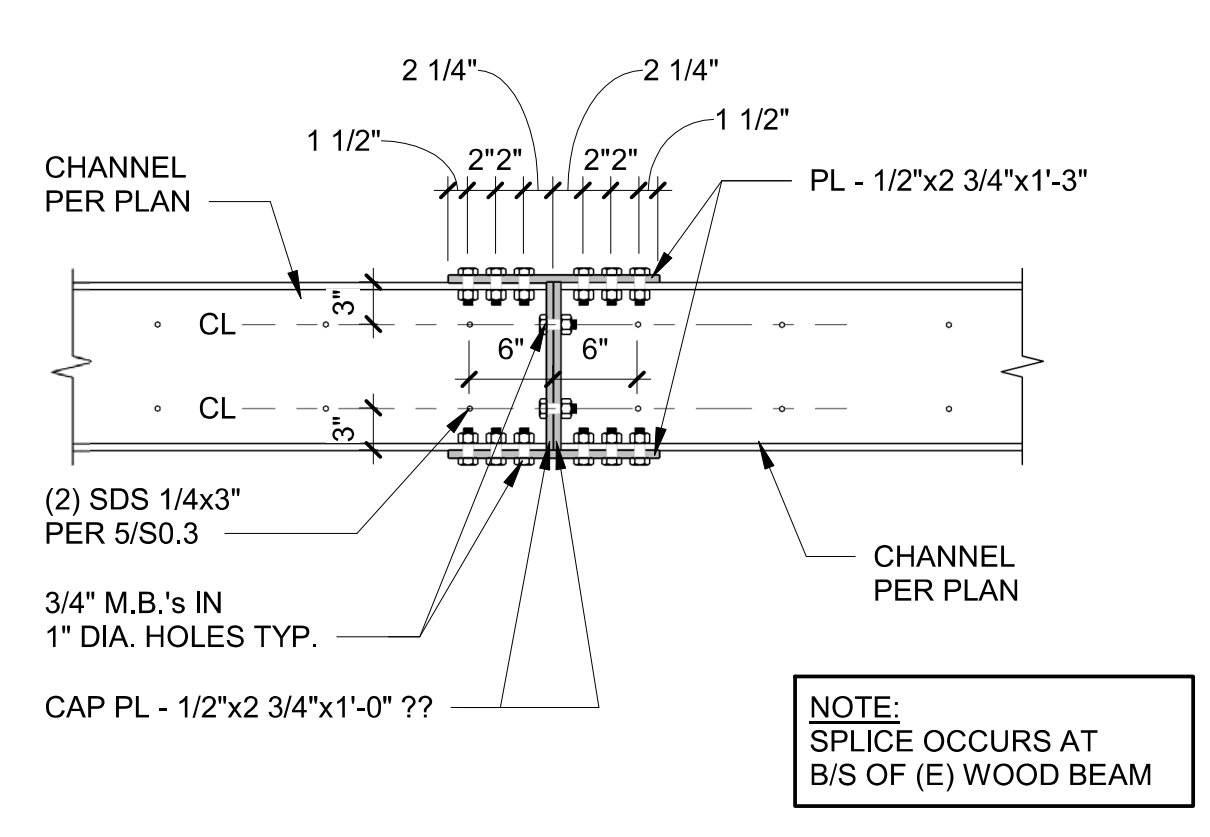
JOISTS PERPENDICULAR w/ SHEAR WALL



11 (E) WALL / CHANNEL
3/4" = 1'-0"



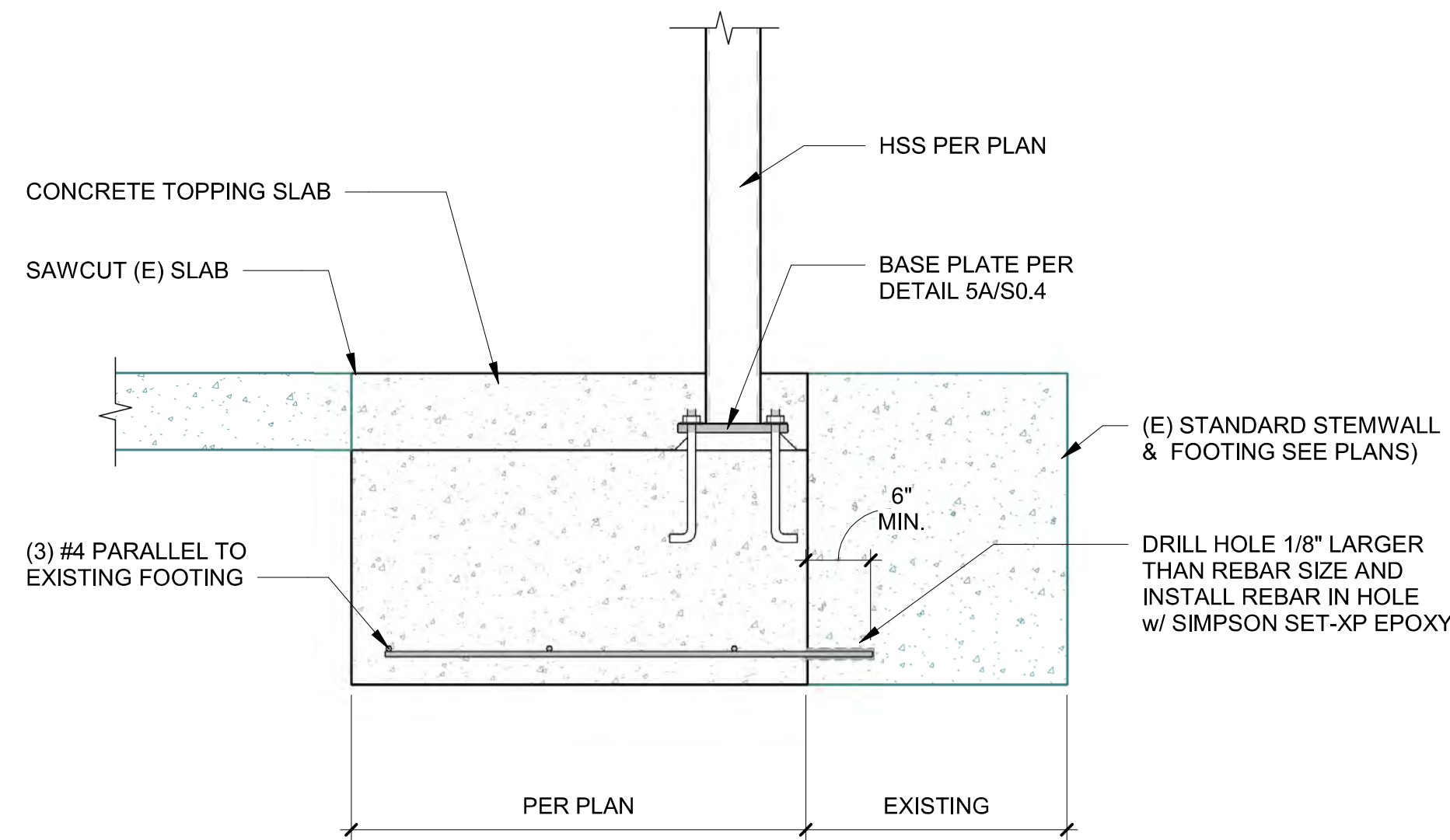
10 HSS COL TO (E) BEAM AT FLOOR
3/4" = 1'-0"



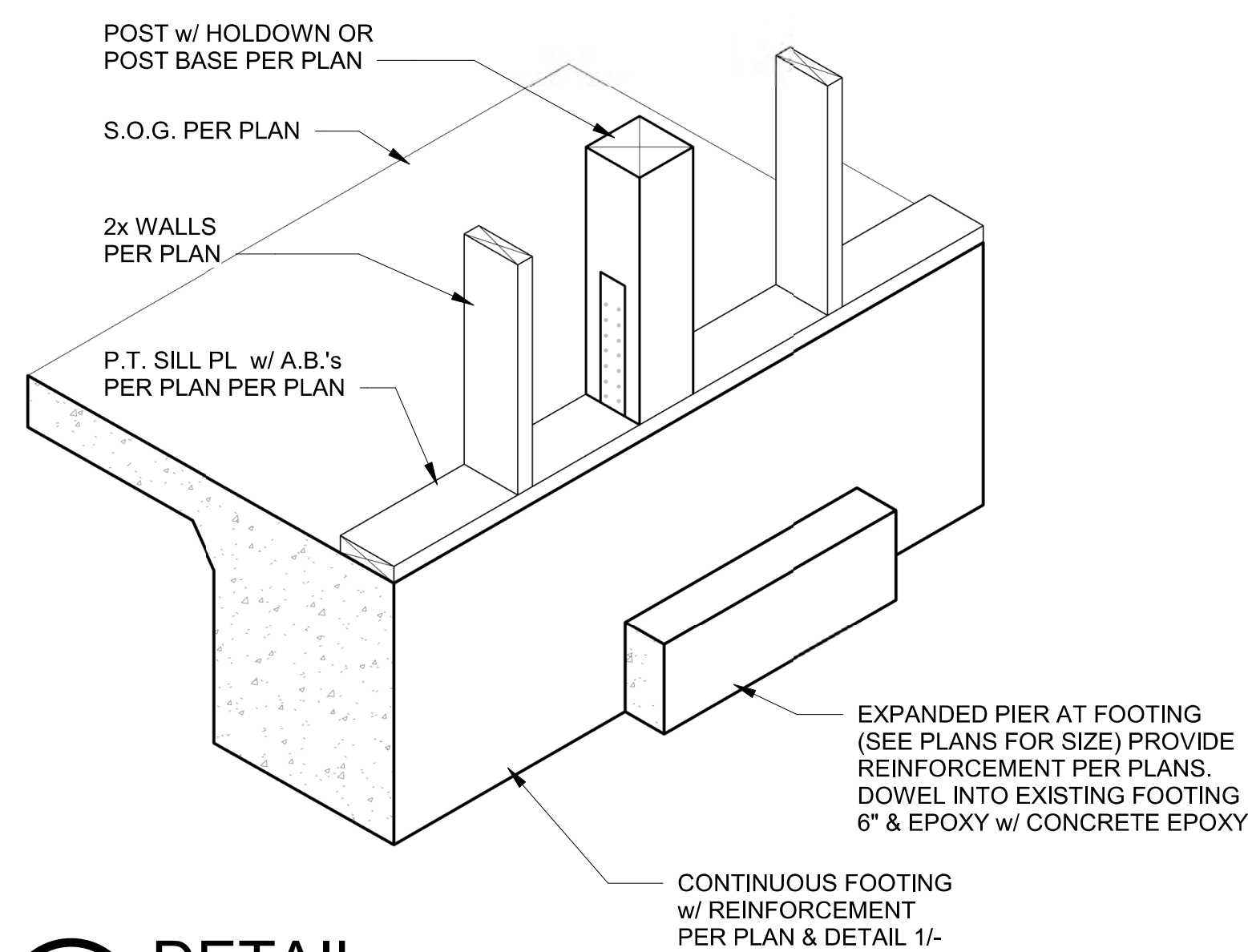
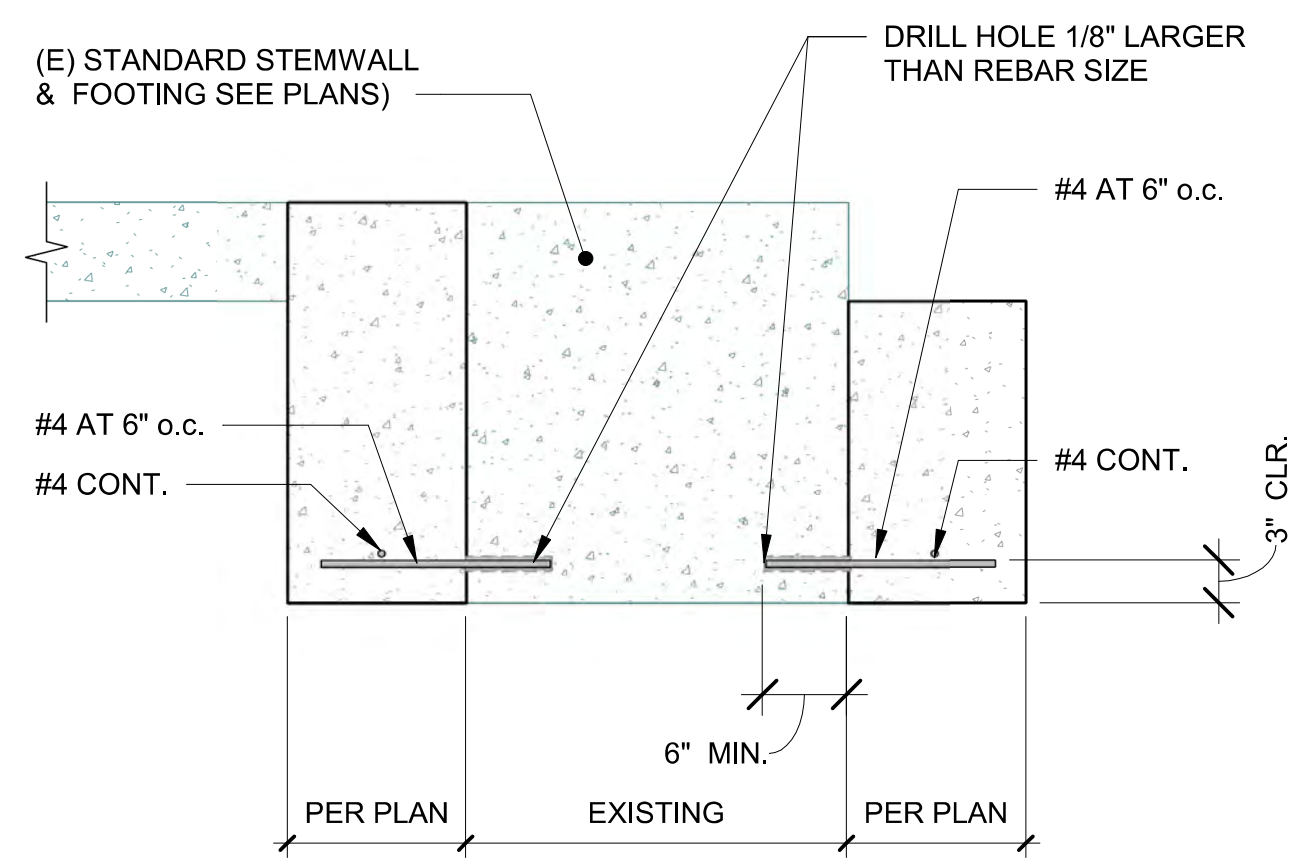
9 BEAM SPLICE
3/4" = 1'-0"



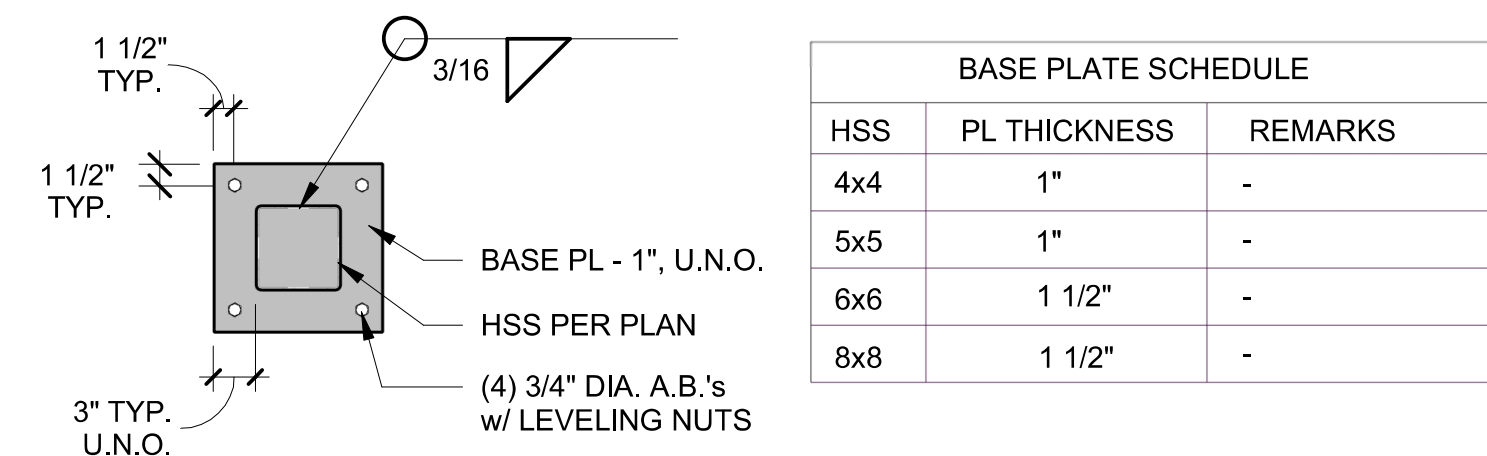
9 BEAM SPLICE
3/4" = 1'-0"



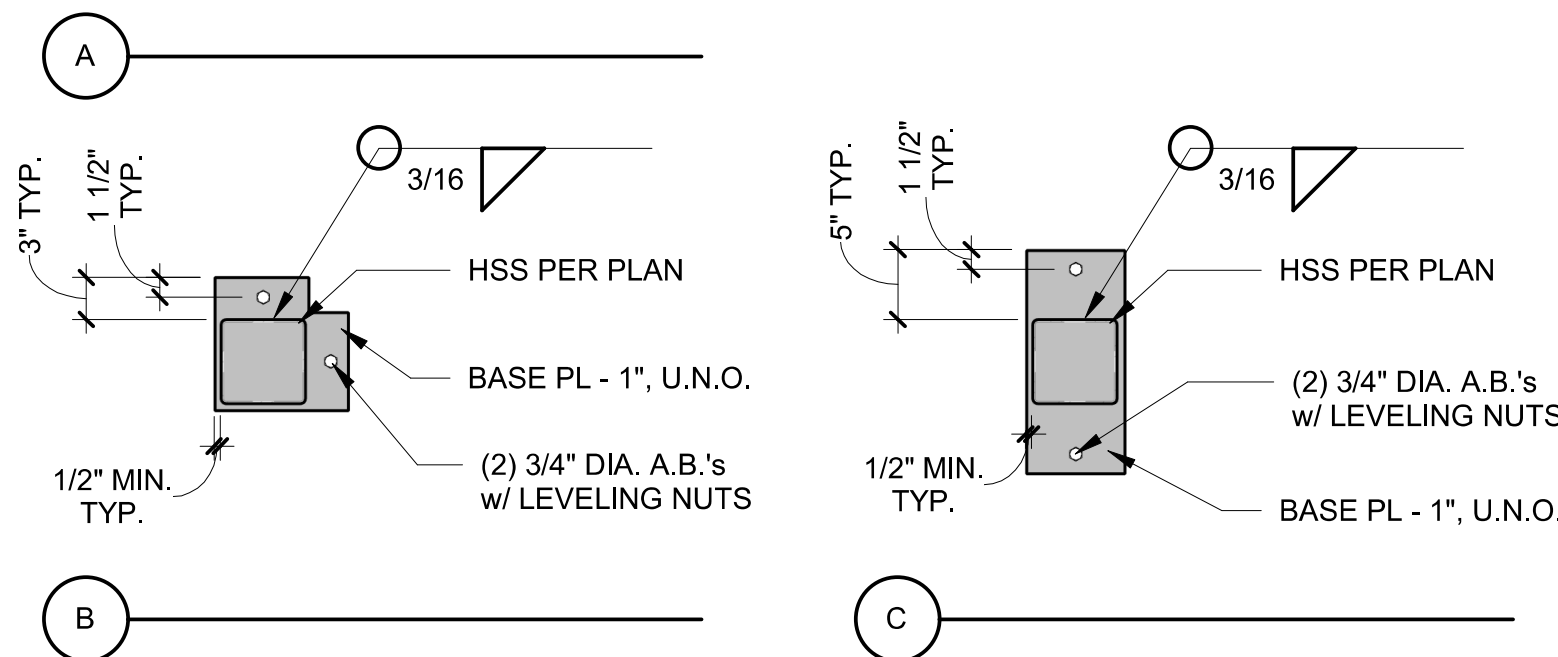
7 DETAIL
3/4" = 1'-0"



6 DETAIL
3/4" = 1'-0"

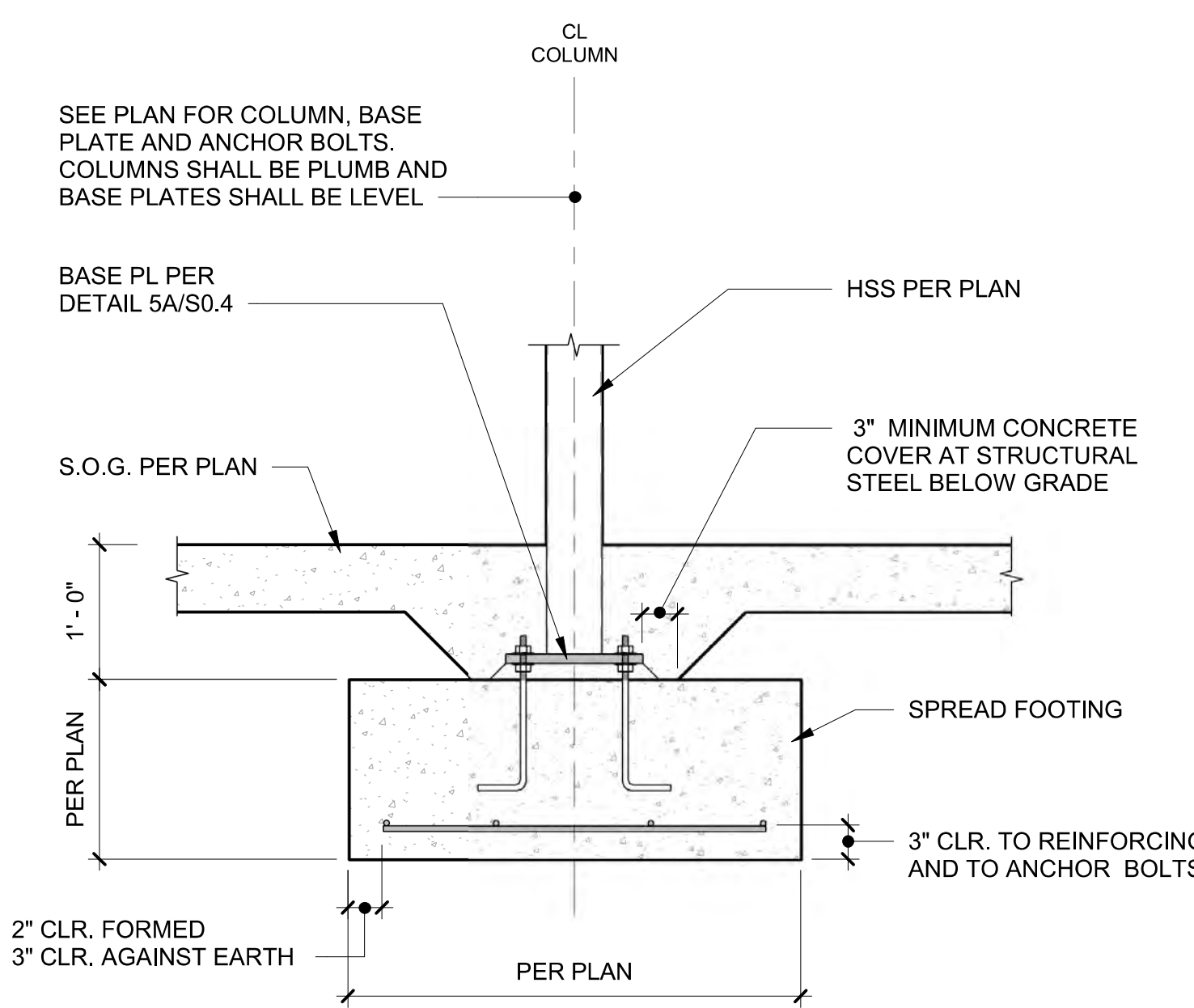


HSS	PL THICKNESS	REMARKS
4x4	1"	-
5x5	1"	-
6x6	1 1/2"	-
8x8	1 1/2"	-



5 DETAIL
3/4" = 1'-0"

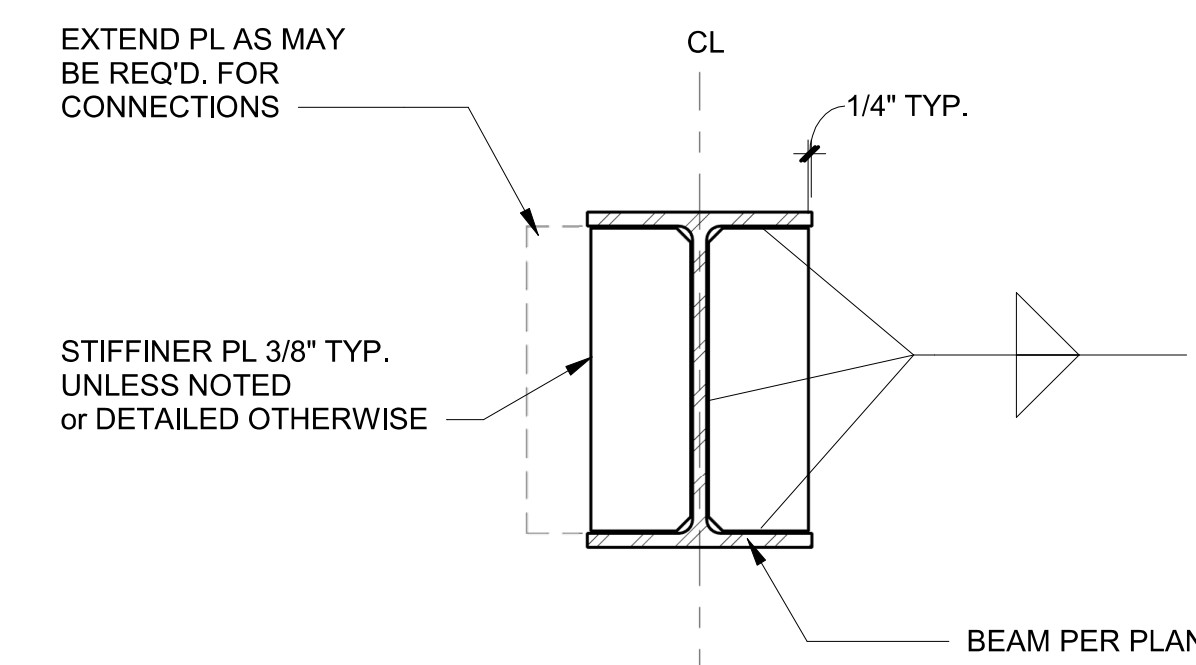
420-016



- NOTES:
- SEE PLAN FOR SIZE OF FOOTING AND FOR REINFORCING STEEL
 - ANCHOR BOLTS SHALL BE SECURED IN PLACE, DO NOT DISPLACE OR OTHERWISE DISTURB THE ANCHOR BOLTS. PLACE THE GROUT BEFORE APPLYING SIGNIFICANT LOADS TO THE COLUMN(S)

4 DETAIL
3/4" = 1'-0"

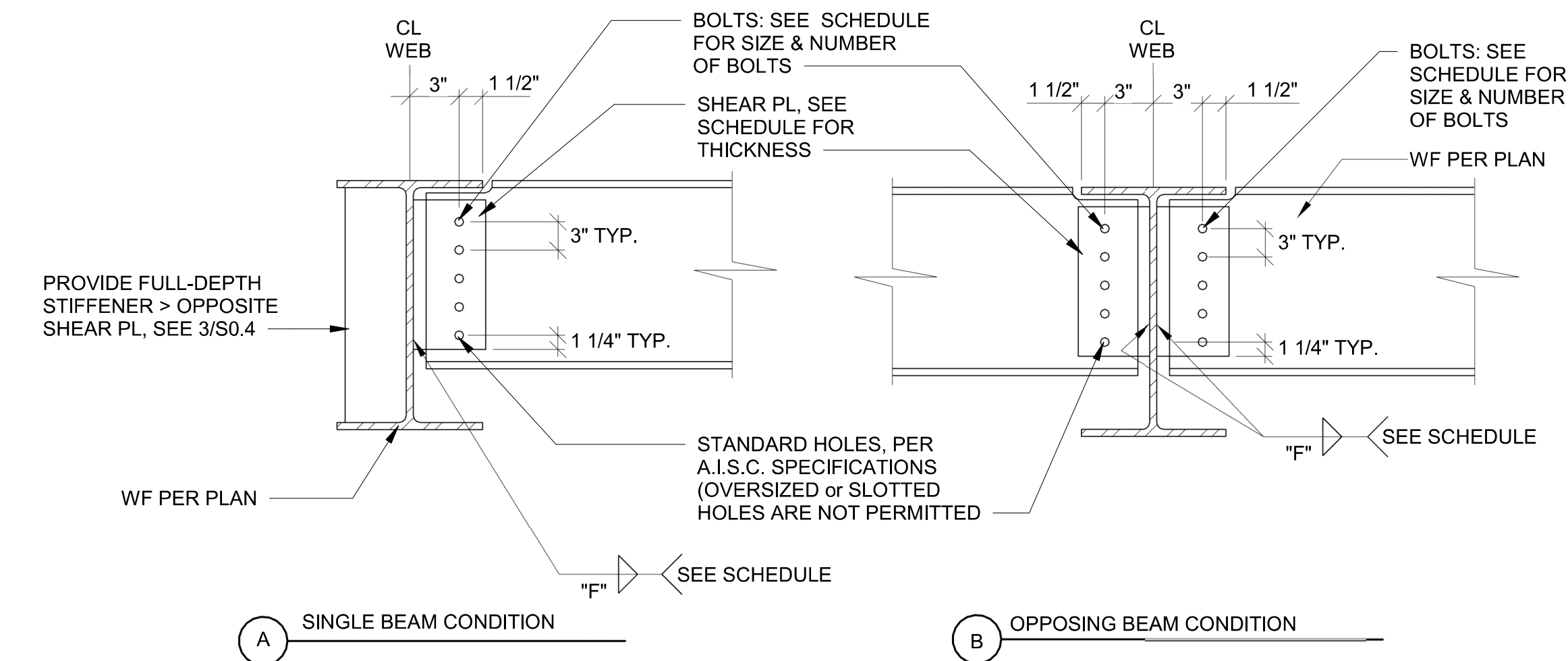
420-012



NOTE:
USE LARGER PLATE AND WELD AS MAY BE REQ'D. BY BEAM CONNECTION SCHEDULE

3 DETAIL
3/4" = 1'-0"

430-211



BEAM SIZE	NUMBER of A325 BOLTS REQ'D PER SHEAR PL SEE NOTES # 1,2,3,4,5		SHEAR PL THICKNESS (INCHES)	WELD SIZE "F"	REMARKS
	3/4" DIA.	1" DIA.			
W6, C6	2		5/16"	1/4"	LOCATE BOLTS IN HORIZONTAL PATTERN
W8, C8	2		5/16"	1/4"	
W10, C10	2		5/16"	1/4"	
W12, C12	3		5/16"	1/4"	
W14, C15	3		5/16"	1/4"	
W16	4		5/16"	1/4"	
W18, MC18	5		5/16"	1/4"	
W21		5	7/16"	5/16"	
W24		6	7/16"	5/16"	
W27		7	7/16"	5/16"	
W30		8	1/2"	3/8"	
W33		9	1/2"	3/8"	
W36		9	1/2"	3/8"	
W40		9	1/2"	3/8"	

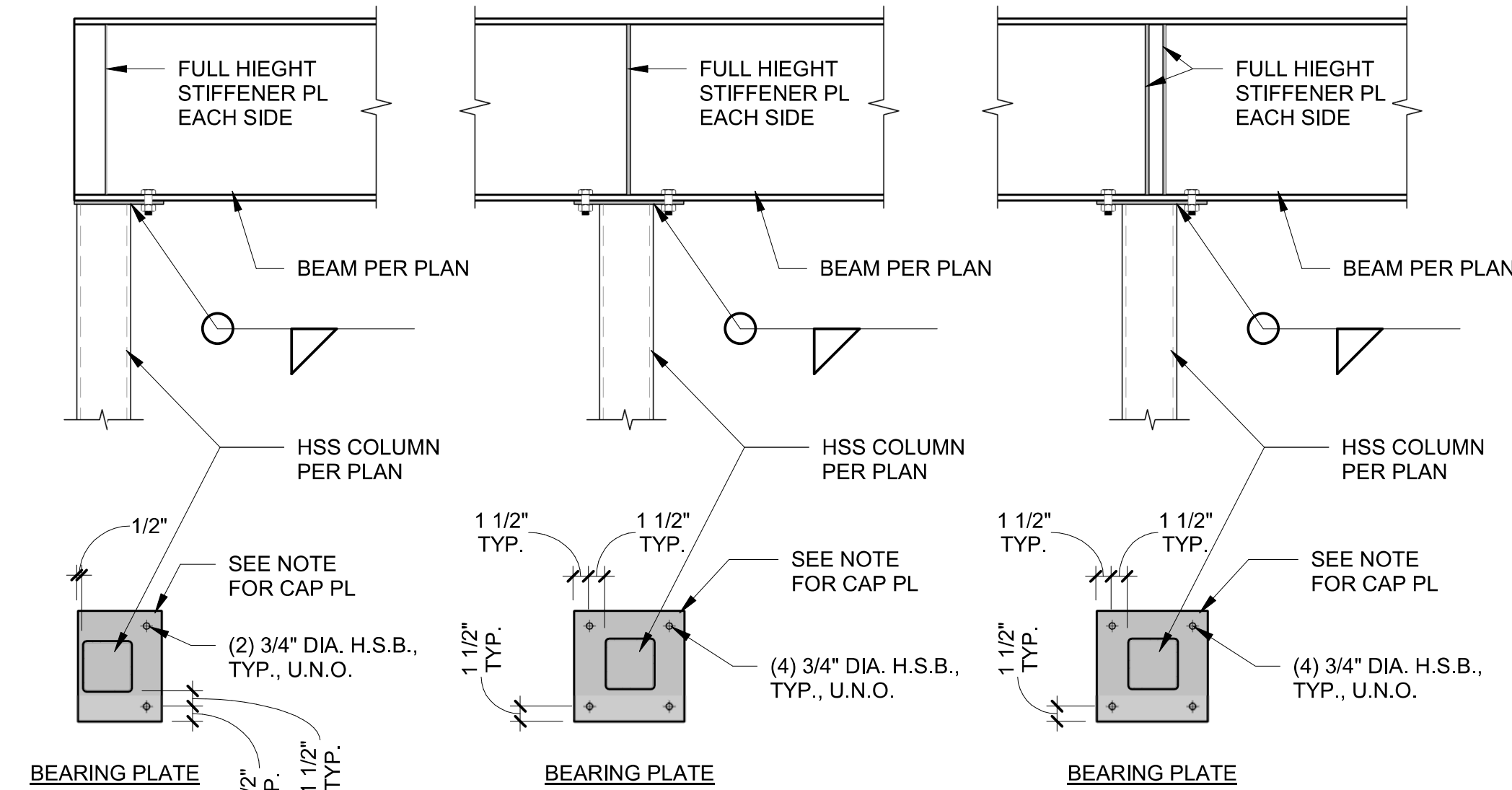
NOTE:
IF SHEAR PL'S ARE NOT DIRECTLY OPPOSING (OFFSETS OF 2" OR GREATER ARE NOT DIRECTLY OPPOSED) THEN PROVIDE STIFFENER PL OPPOSITE SHEAR PL PER CONDITION 'A'

NOTE(S):

- Provide A325-N high-strength bolts, TYP., U.N.O.
- High-strength bolts used in beam to beam connections shall be "snug-tight" per requirements of American Institute of Steel Construction (A.I.S.C.) TYP., U.N.O.
- Connections which have A325-SC bolts shall conform to the following requirements:
 - The bolts shall be tightened to slip-critical pretensioning
 - Unqualified paint is not permitted on the faying surfaces of connections utilizing A325-SC bolts.
- Provide special inspection of bolt tightening per Sheet, S0.1
- High-strength bolts which are part of moment resisting frame beam and column connections shall be fully pretensioned per "tensioned shear-bearing connections" pretensioning requirements of A.I.S.C.

2 DETAIL
3/4" = 1'-0"

430-104



NOTE:
COLUMN CAP PL SHALL BE THE SAME WIDTH AS THE BEAM FLANGE OR (COLUMN DIMENSION + 1/2") WHICHEVER IS GREATER. THICKNESS SHALL BE SAME THICKNESS AS BEAM FLANGE (1/2" MIN.)

1 DETAIL
3/4" = 1'-0"

430-117

REVISIONS			
#	Date	Description	By

DEI *engineers*
 Dunagan Engineering, Inc.
 4790 Caughlin Parkway #166, Reno, NV 89519
 P. 775.329.2733 | F. 888.873.0799 | W. DEIengineers.com

STRUCTURAL ONLY

REGISTERED PROFESSIONAL ENGINEER
 BRYAN D. DUNAGAN
 No. C047236
 Exp. 12-31-23
 CIVIL
 STATE OF CALIFORNIA

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CHECKED BY BDD
DATE 9-26-22
SCALE AS NOTED
JOB NO. B22000
SHEET NO.

DETAILS

S0.4
 SHEET of SHEETS

PLEASE RECYCLE

PIER SCHEDULE			
MARK	WIDTH (each side)	DEPTH	STEEL (each way)
F2.0	24"	10"	(3) #4's
F2.5	30"	12"	(4) #4's
F3.0	36"	12"	(4) #4's
F3.5	42"	14"	(6) #4's or (4) #5's
F4.0	48"	14"	(7) #4's or (4) #5's

• ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL, ASSUMED SOIL BEARING PRESSURE IS DETERMINED IN ACCORDANCE W/ IBC TABLE 1806.2, UNLESS SOIL REPORT IS PROVIDED.

• EXTERIOR FOOTINGS TO BE PLACED 24" BELOW GRADE PER APPLICABLE CODES.

NOTE:
SEE DETAILS FOR SPECIAL REINFORCING OF STEMWALL AND FOOTINGS.

REVISIONS		
#	Date	Description

DEI
engineers

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CIVIL
STATE OF CALIFORNIA

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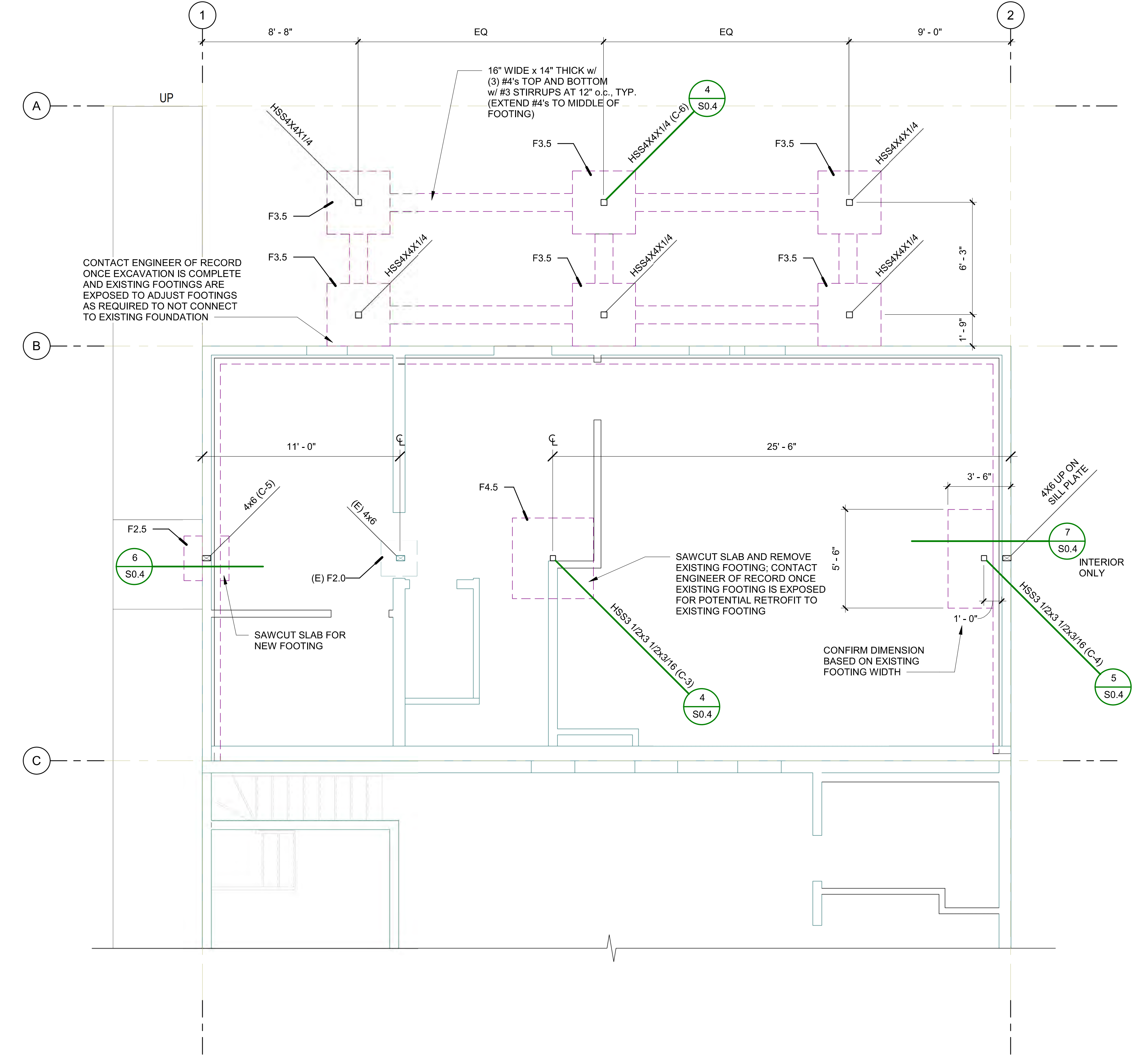
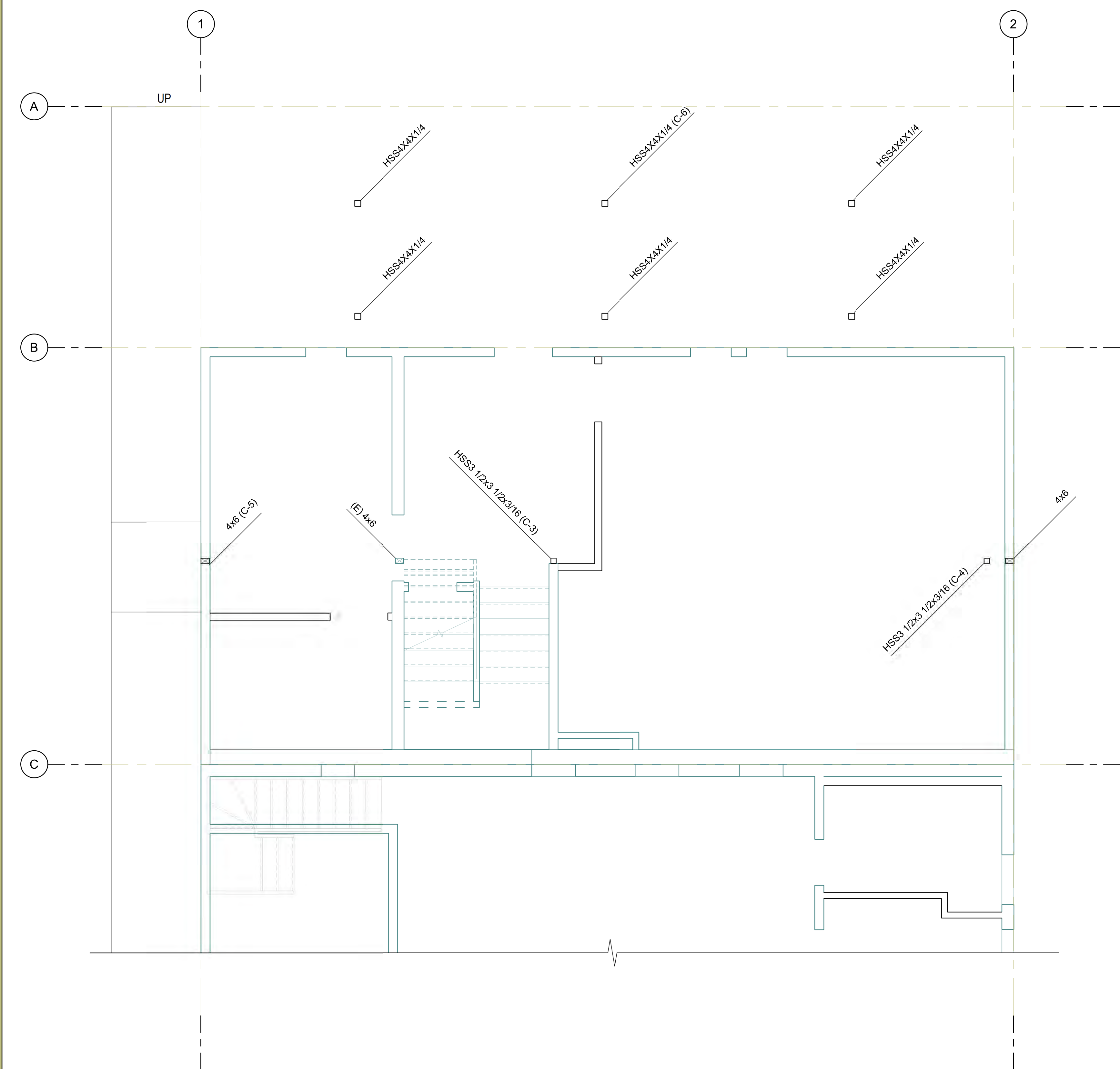
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SHEET NO.	

FOUNDATION PLAN /
LOWER FLOOR STRUCTURAL PLAN

S1.1
SHEET of SHEETS

PLEASE RECYCLE



#	Date	Description	By

DEI
engineers

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4790 Caughlin Parkway #166, Reno, NV 89519
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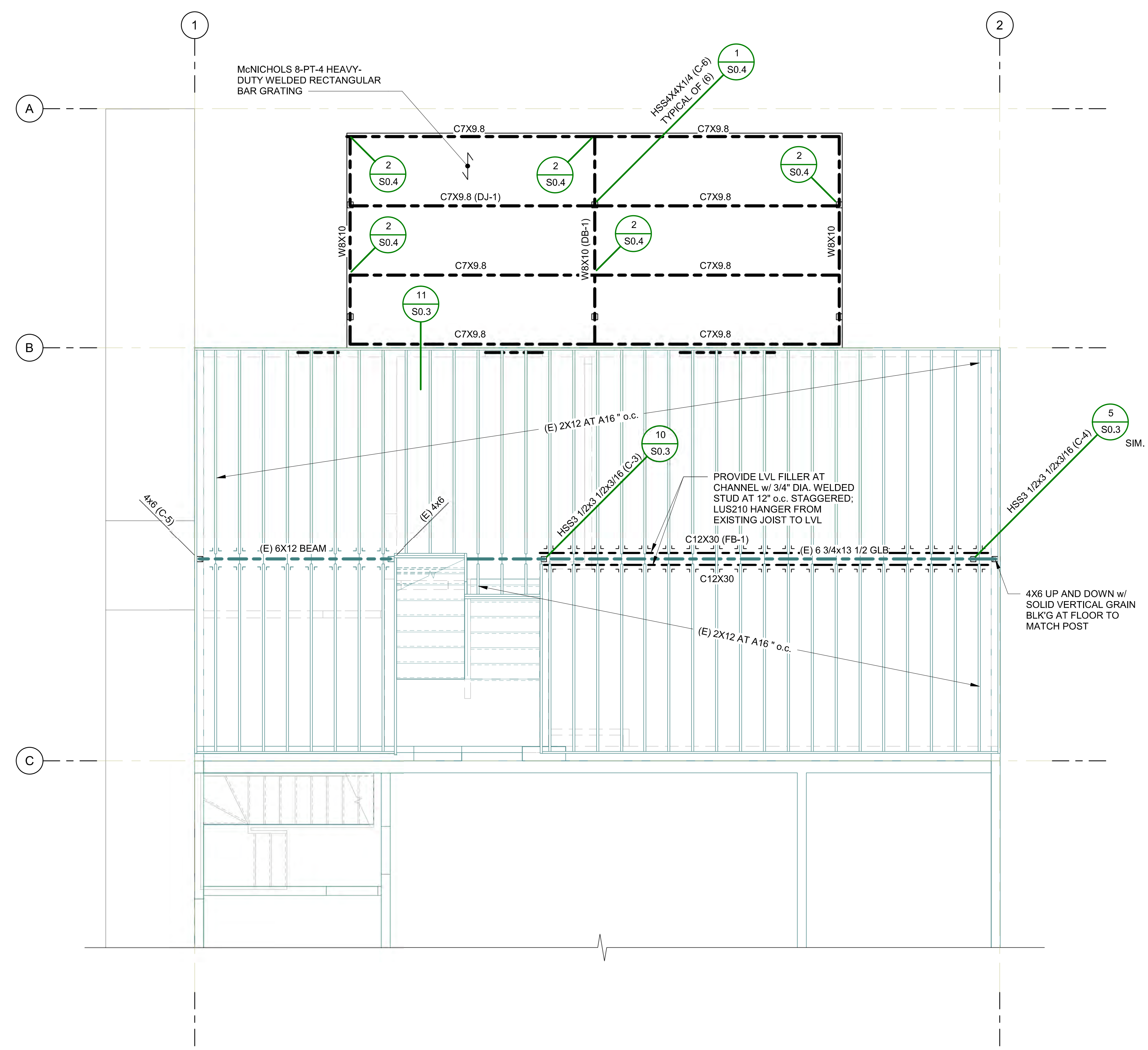
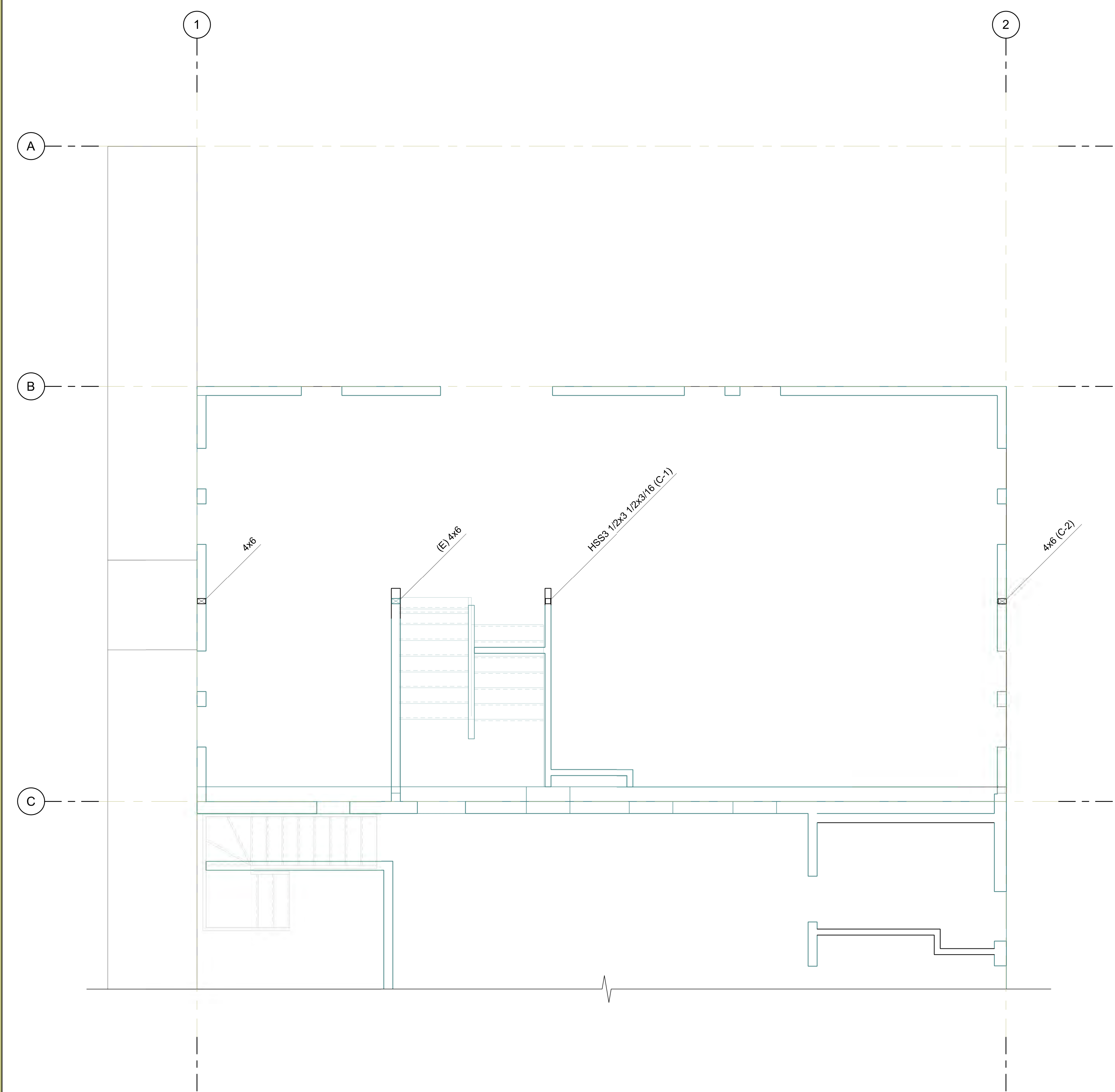
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SHEET NO.	

LOWER FLOOR FRAMING
PLAN / UPPER FLOOR
STRUCTURAL PLAN

S1.2
SHEET of SHEETS

PLEASE RECYCLE

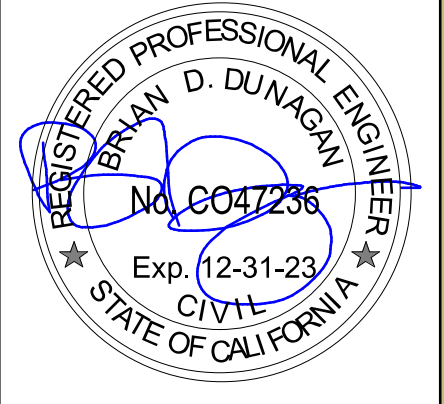


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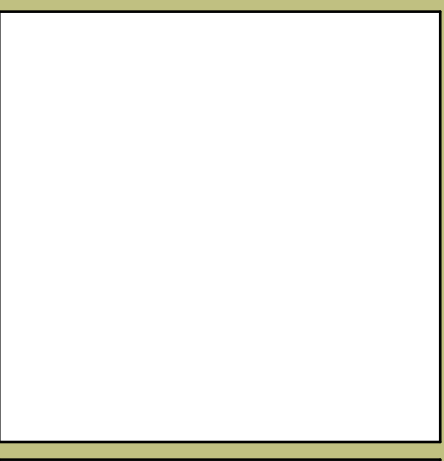
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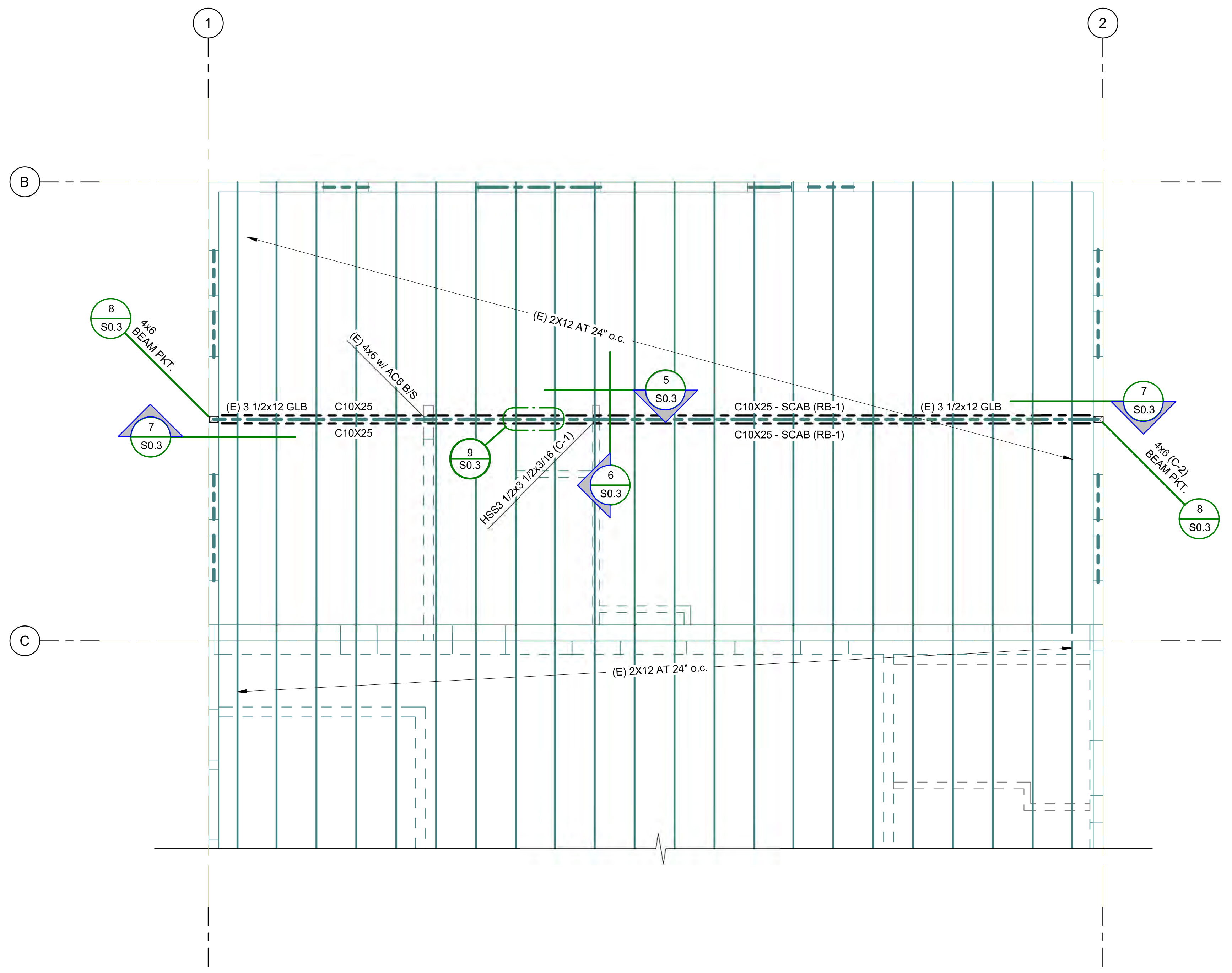
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SHEET NO.	

UPPER ROOF FRAMING
PLAN



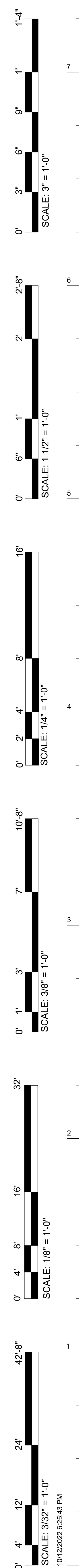
S2.1
SHEET of SHEETS

PLEASE RECYCLE



ROOF FRAMING PLAN

1/4" = 1'-0"



MECHANICAL LEGEND

HVAC SYMBOLS

SYMBOL	IDENTIFICATION
	DUCT, SINGLE-LINE; SIZES AS SHOWN ON PLANS
	DUCT, DOUBLE-LINE; SIZES AS SHOWN ON PLANS
	45 DEGREE DUCT ELBOW; SINGLE-LINE; SIZES AS SHOWN ON PLANS
	45 DEGREE DUCT ELBOW; DOUBLE-LINE; SIZES AS SHOWN ON PLANS
	90 DEGREE DUCT ELBOW; SINGLE-LINE; SIZES AS SHOWN ON PLANS
	90 DEGREE DUCT ELBOW; DOUBLE-LINE; SIZES AS SHOWN ON PLANS
	90 DEGREE DUCT ELBOW WITH TURNING VANES; SIZES AS SHOWN ON PLANS
	DUCT TRANSITION; SINGLE-LINE
	DUCT TRANSITION; DOUBLE-LINE
	DUCT TRANSITION SQUARE TO ROUND; DOUBLE-LINE
	HORIZONTAL MOUNTED SUPPLY AIR DIFFUSER OR SUPPLY AIR DUCT IN CROSS-SECTION ROUTED UP
	HORIZONTAL MOUNTED RETURN OR TRANSFER AIR GRILLE, OR RETURN AIR DUCT IN CROSS-SECTION ROUTED UP
	HORIZONTAL MOUNTED EXHAUST AIR GRILLE OR EXHAUST AIR DUCT IN CROSS-SECTION ROUTED UP
	SUPPLY AIR DUCT IN CROSS-SECTION ROUTED DOWN
	RETURN AIR DUCT IN CROSS-SECTION ROUTED DOWN
	EXHAUST AIR DUCT IN CROSS-SECTION ROUTED DOWN
	SUPPLY AIR TO/FROM DEVICE
	RETURN/EXHAUST AIR TO/FROM DEVICE
	BALANCING DAMPER
	MOTORIZED DAMPER
	FIRE DAMPER
	FIRE/SMOKE DAMPER
	THERMOSTAT
	TEMPERATURE SENSOR

DESIGNATION SYMBOLS

SYMBOL	IDENTIFICATION
	GRID LINE DESIGNATOR
	SHEET KEYNOTE TAG
	CONTRACTOR EQUIPMENT TAG
	REVISION DELTA WITH REVISION NUMBER
	POINT OF CONNECTION

ABBREVIATIONS

ABBRV.	IDENTIFICATION
Ø	DIAMETER
&	AND
AFF	ABOVE FINISH FLOOR
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY
BD	BALANCING DAMPER
BHP	BREAK HORSEPOWER
BTU	BRITISH THERMAL UNITS
CFM	CUBIC FEET PER MINUTE
CONT	CONTINUED
COP	COEFFICIENT OF PERFORMANCE
dBA	A-WEIGHTED DECIBELS
DN	DOWN
DSO	DUCT SMOKE DETECTOR
DWGS	DRAWINGS
(E)	EXISTING TO REMAIN
EA	EXHAUST AIR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
ESP	EXTERNAL STATIC PRESSURE
F/D	FIRE DAMPER
F/SD	FIRE/SMOKE DAMPER
FLA	FULL-LOAD AMPERES
FLR	FLOOR
FT	FEET
G	GAS
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GPR	GAS PRESSURE REGULATOR
HP	HORSEPOWER OR HEAT PUMP
HSPF	HEATING SEASONAL PERFORMANCE FACTOR
IMC	INTERNATIONAL MECHANICAL CODE
IN	INCHES
KW	KILOWATTS
LBS	POUNDS
MAX	MAXIMUM
MBH	1000 BTU PER HOUR
MCA	MINIMUM CURRENT AMPACITY
MECH	MECHANICAL
MIN	MINIMUM
MOCPP	MAXIMUM OVERCURRENT PROTECTION
(N)	NEW
NC	NOISE CRITERIA
NTS	NOT TO SCALE
OC	ON CENTER
OMSC	OREGON MECHANICAL SPECIALTY CODE
OSA	OUTSIDE AIR
PD	PRESSURE DROP
PH	PHASE
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
QTY	QUANTITY
(R)	RELOCATE EXISTING
REFR	REFRIGERATION LINE
REQD	REQUIRED
REQS	REQUIREMENTS
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SC	SENSIBLE (COOLING) CAPACITY
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SUPPLY FAN OR SQUARE FEET
SOV	SHUT-OFF VALVE
SQ	SQUARE
TC	TOTAL (COOLING) CAPACITY
TYP	TYPICAL
V	VOLTS
W	WATTS
W/	WITH
WC	WATER COLUMN
(X)	REMOVE EXISTING

LEGEND NOTES:

- ALL SYMBOLS MAY NOT BE USED IN THIS PROJECT.
- SYMBOLS DO NOT ALWAYS REPRESENT REAL LIFE DIMENSIONS.
- SEE BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.

GENERAL MECHANICAL NOTES:

- THIS PROJECT IS A REMODEL OF A HISTORIC BUILDING. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED INFORMATION AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- BUILDING IS COVERED UNDER 2019 CHBC SECTION 8.901.5 ENERGY CONSERVATION. QUALIFIED HISTORICAL BUILDINGS OR PROPERTIES COVERED BY THIS PART ARE EXEMPTED FROM COMPLIANCE WITH ENERGY CONSERVATION STANDARDS.
- TEMPORARILY CAP ANY (E) SERVICES THAT WILL REMAIN UNTIL CONNECTION TO NEW CAN BE MADE.
- CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR TO REPAIR WALL, FLOOR, AND CEILING SURFACES AS REQUIRED DUE TO DEMOLITION OR INSTALLATION WORK.
- REMOVE ALL ABANDONED PIPING, WIRING, EQUIPMENT AND FIXTURES. ALL CONTROL WIRING SHALL BE IN CONDUIT. PROVIDE AND INSTALL RIGID CONDUIT IN AREAS EXPOSED TO THE ELEMENTS.
- SUPPORT DUCTS AND PIPES TIGHT BELOW STRUCTURE WHEREVER POSSIBLE.
- COORDINATE WITH OTHER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS.
- FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURE SHEET METAL MANUAL AND DRAWINGS NOTES.
- ALL PIPING IS CONCEALED UNLESS OTHERWISE NOTED.
- ALL PIPING, FIXTURES, EQUIPMENT, ETC SHOWN IS NEW UNLESS OTHERWISE NOTED.
- PROVIDE OPERATING AND MAINTENANCE MANUAL TO OWNER UPON SYSTEM COMMISSIONING.
- WHERE BRANCH CONNECTION SIZES IS NOT SHOWN, REFER TO FIXTURE CONNECTION SCHEDULE ABOVE.
- WATER HAMMER ARRESTORS SHALL BE PLACED AT ALL QUICK ACTING VALVES 2019 CALIFORNIA PLUMBING CODE.
- ALL FLOOR DRAINS / SINKS AND SIMILAR FIXTURES SHALL BE PROVIDED WITH TRAP PRIMERS.

MECHANICAL SHEET KEY	
SHEET NUMBER	DESCRIPTION
M00.10	MECHANICAL - LEGEND & NOTES
M00.20	MECHANICAL - SCHEDULES
M03.01	MECHANICAL - BASEMENT, LOWER AND UPPER LEVEL FLOOR PLANS
M03.02	MECHANICAL - BASEMENT, LOWER AND UPPER LEVEL PIPING PLANS
M04.01	MECHANICAL - REFRIGERATION PIPING DIAGRAMS
M08.01	MECHANICAL - DETAILS



BEND | CORVALLIS
MONTEREY | NAPA | SANTA CRUZ

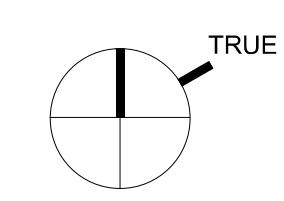
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MECHANICAL - LEGEND & NOTES

PROJECT: 20220412

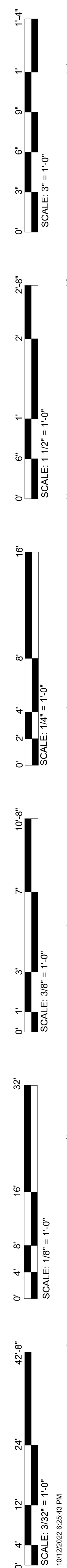
DATE: 10/12/2022

No.	Description	Date



M00.10

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VRF BRANCH SELECTOR BOXES										
MARK	LOCATION	SERVING	RATED MBH	PORTS	V/PH	UNIT		WT LBS	MAKE & MODEL	NOTES
						MCA	MOCP			
BS-1	BASEMENT MECH. RM.	FC-1, FC-2	216,000	4	1/230	2	15	55	SAMSUNG MCU-S4	
BS-2	BASEMENT MECH. RM.	FC-4, FC-5, FC-6, FC-7	216,000	4	1/230	2	15	55	SAMSUNG MCU-S4	

NOTES:

SPLIT SYSTEM HEAT PUMPS														
MARK	SERVING	COOL MBH	HEAT MBH	TONS	CFM	ESP	W	V/PH	UNIT MCA/MOCP	WT LBS	SEER	MAKE & MODEL	NOTES	
														TC
EC-1	OPEN WORKSPACE 83	15	17	1.25	392		65	230/1	.33	15	42	SAMSUNG AM01SAN1PCH/AA 1-WAY CASSETTE	1,2,4,5,7,9	
EC-2	OPEN WORKSPACE 83	15	17	1.25	392		65	230/1	.33	15	42	SAMSUNG AM01SAN1PCH/AA 1-WAY CASSETTE	1,2,4,5,7,9	
EC-4	CONFERENCE 100	12	13.5	1	364		27	230/1	0.31	15	21	SAMSUNG AM012TNVDCH/AA WALL MOUNTED UNIT	1,2,5,8,9	
EC-5	CONFERENCE 100	12	13.5	1	364		27	230/1	0.31	15	21	SAMSUNG AM012TNVDCH/AA WALL MOUNTED UNIT	1,2,5,8,9	
EC-6	LOBBY 101	5	5.8	.5	173		27	230/1	0.16	15	20	SAMSUNG AM005TNVDCH/AA WALL MOUNTED UNIT	1,2,5,8,9	
EC-7	KITCHEN LOUNGE 102	5	5.8	.5	173		27	230/1	0.16	15	20	SAMSUNG AM005TNVDCH/AA WALL MOUNTED UNIT	1,2,5,8,9	
EC-3	HISTORIC BUILDING	72	80	6	2110	0.4	950	230/1	7.2	15	239	SAMSUNG AM072TNZDCH/AA MULTIPOTITION AHU	1,2,6,8,9	
HP-1		60	60	5			139X2	230/1	32	50	276	17.1	SAMSUNG AM060NKMDCR/AA	1,3,9
HP-3		60	60	5			139X2	230/1	32	50	276	17.1	SAMSUNG AM060NKMDCR/AA	1,3,9

NOTES:

1. SIZE AND INSTALL REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE PROGRAMMABLE THERMOSTAT.
3. PROVIDE CONCRETE HOUSEKEEPING PAD.
4. PROVIDE WITH FASCIA PANEL.
5. CONNECT TO HP-1
6. CONNECT TO HP-3
7. WITH BUILT IN CONDENSATE PUMP. RUN CONDENSATE DIRECT TO THE OUTSIDE.
8. DRAIN PAN WITH CONDENSATE PUMP, GOBI II 3004145. RUN CONDENSATE DIRECT TO THE OUTSIDE OF TO THE NEAREST FIXTURE WITH AN APPROVED AIR GAP
9. SEE M4.01 FOR REFRIGERANT PIPING DIAGRAM

LOUVERS						
MARK	SERVING	TYPE	CFM	PD WC	MAKE & MODEL	NOTES
LV-1	KITCHEN	OUT	100	0.04	GREENHECK ESD-635, 18X12	1
LV-2	VARIOUS	IN	1000	0.04	GREENHECK ESD-635	1, 2

NOTES:

1. PROVIDE INSECT SCREEN.
2. SIZE TO FIT WITHIN CRAWLSPACE WINDOW SPACE

AIR DISTRIBUTION			
MARK	TYPE	MAKE & MODEL	REMARKS
RG-1	RETURN	HART COOLEY 265	HEAVY DUTY STEEL FLOOR GRILL, SIZE AS INDICATED
EG-1	EXHAUST	TITUS 350RL	LOUVERED FACE EXHAUST, WITH OBD, MATCH FRAME TO CEILING TYPE, SIZE AS INDICATED
EG-2	EXHAUST	TITUS 8F	PERFORATED FACE EXHAUST, WITH OBD, MATCH FRAME TO CEILING TYPE, SIZE AS INDICATED
SD-1	SUPPLY	TITUS PAS	24X24 PERFORATED FACE DIFFUSER, MATCH FRAME TO CEILING TYPE, NECK SIZE AS INDICATED
SD-2	SUPPLY	TITUS 300RL	DOUBLE DEFLECTION LOUVERED FACE SUPPLY WITH OBD, SIZE AS INDICATED
SD-3	SUPPLY	HART COOLEY 210	HEAVY DUTY STEEL FLOOR GRILL, SIZE AS INDICATED

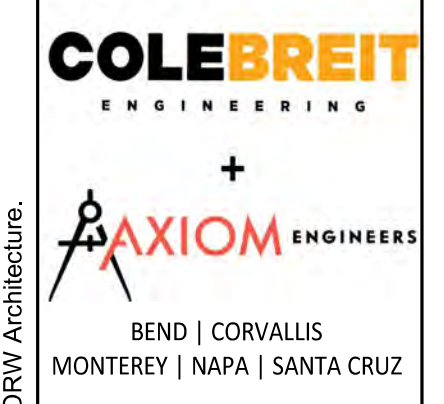
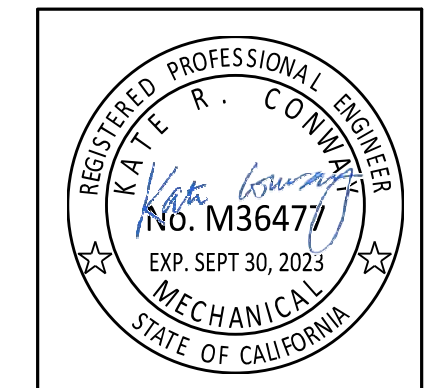
NOTES:

1. MAY PROVIDE EQUIVALENT EQUIPMENT FROM NAILOR, PRICE, SHOEMAKER, TITUS.

FANS											
MARK	SERVING	CFM	ESP	TIP SPEED / SONES	MOTOR V/PH	WATTS/HP	FAN RPM	WT LBS	MAKE & MODEL	NOTES	
EF-1	RESTROOM 203/204	150	.4	3669	115/1	1/15	1725	31	GREENHECK SQ-70-VG	2,3	
EF-2	RESTROOM 203/204	100	.4	3515	115/1	1/15	1725	31	GREENHECK SQ-70-VG	2,3	
EF-3	KITCHEN	100	.4	2	115/1		91W	950	11	GREENHECK CSP-B110	2,3
SF-1	VARIOUS	1000	.9	5052	115/1	1/4	1725	87	GREENHECK SQ-100-VG	1,2,3	

NOTES:

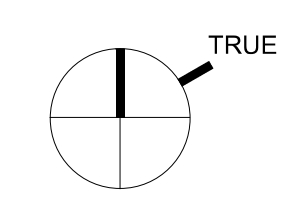
1. PROVIDE WITH MERV 8 PRE FILTER AND MERV 13 FILTER BOX
2. OPERATE BY TIMECLOCK DURING OCCUPIED HOURS, 7AM TO 6PM (ADJUSTABLE)
3. PROVIDE LOCAL DISCONNECT SWITCH



YREKA CARNEGIE LIBRARY REHABILITATION
412 W MINER ST., YREKA, CA 96097
MECHANICAL - SCHEDULES

PROJECT:	20220412	
DATE:	10/12/2022	
No.	Description	Date

M00.20



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1'-4"
1'
9"
6"
3"
0'
SCALE: 3" = 1'-0"

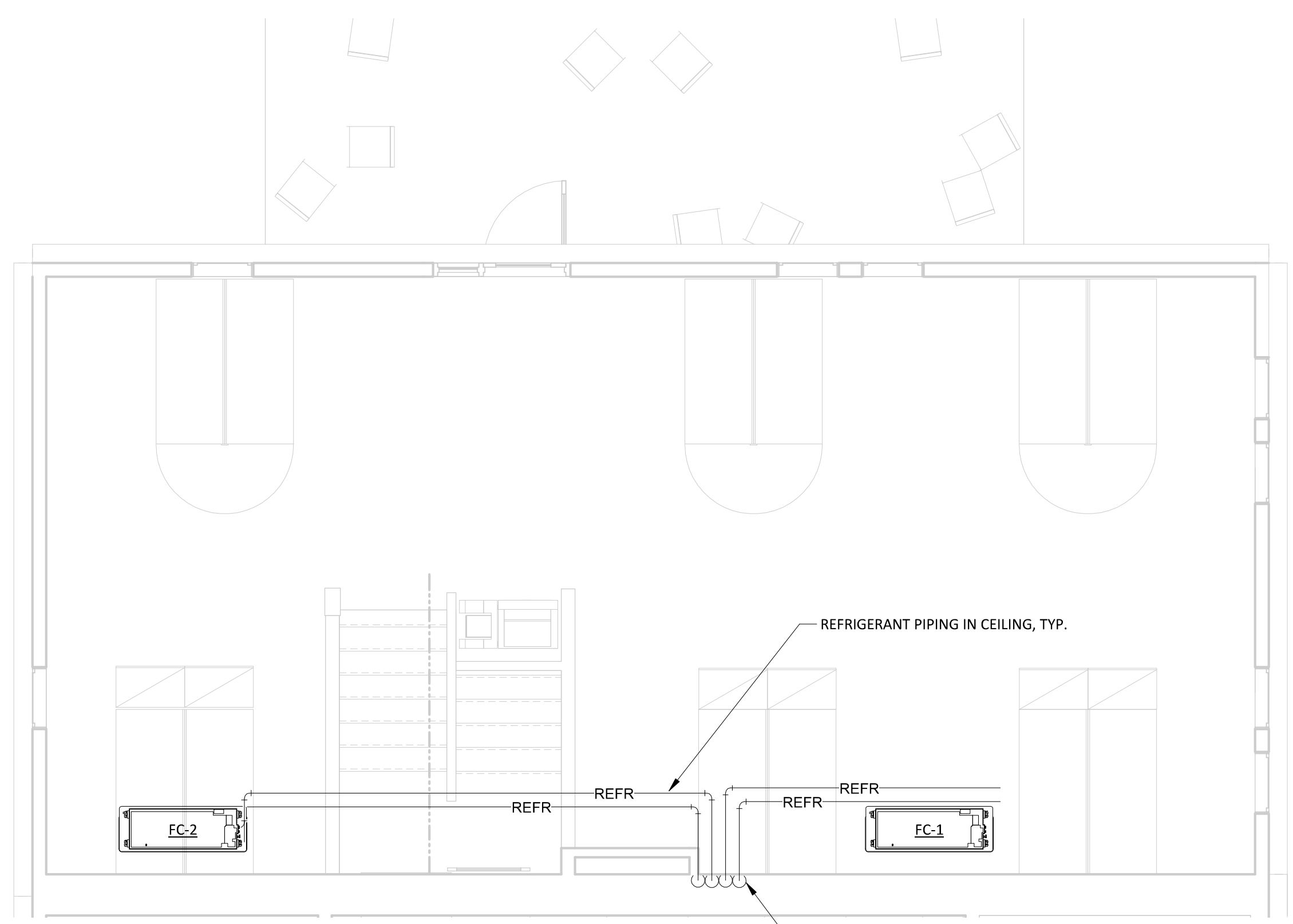
2'-8"
2'
1'
6"
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SCALE: 1 1/2" = 1'-0"

16"
8"
4"
2"
0'
SCALE: 1/4" = 1'-0"

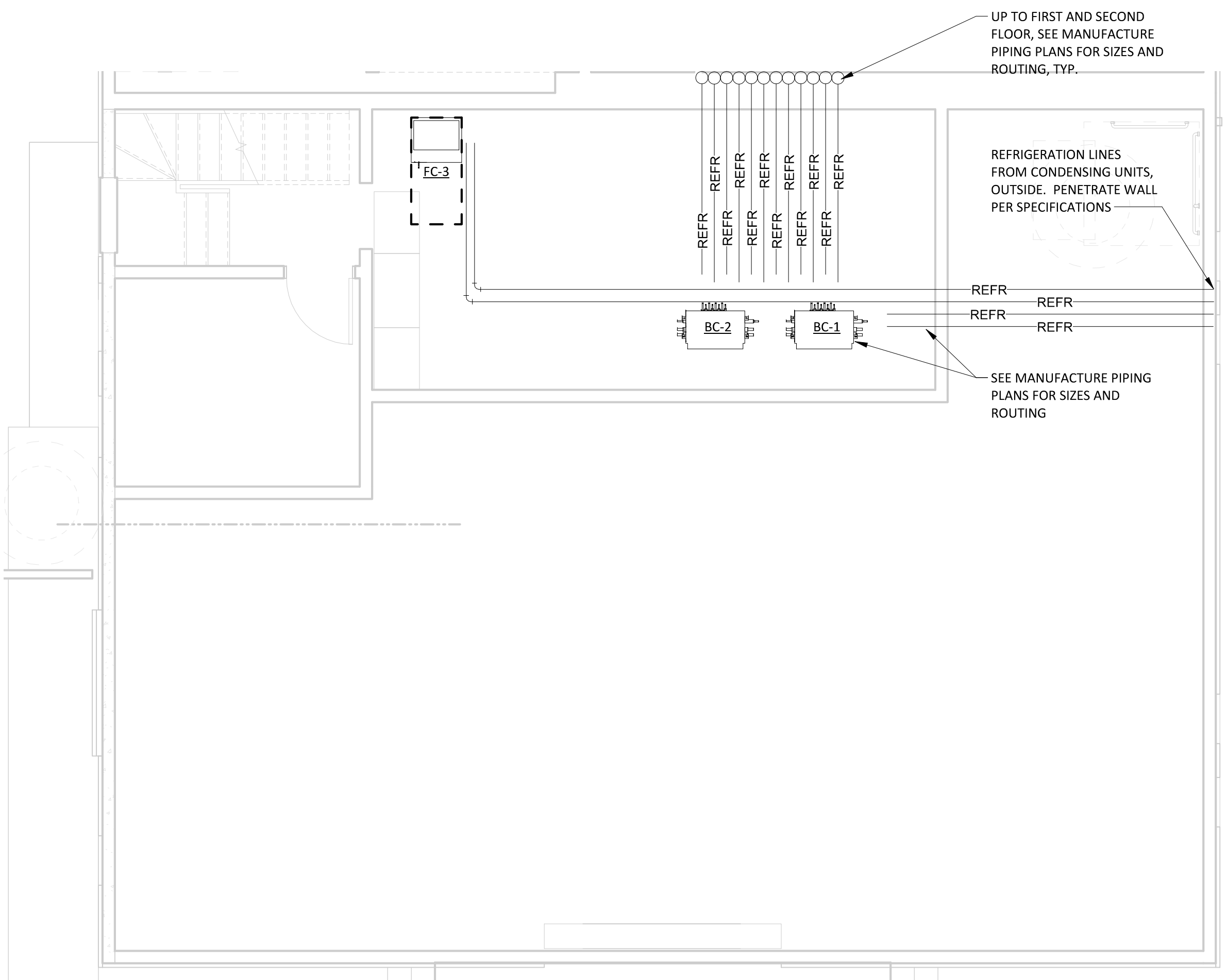
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4"
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SCALE: 1/8" = 1'-0"

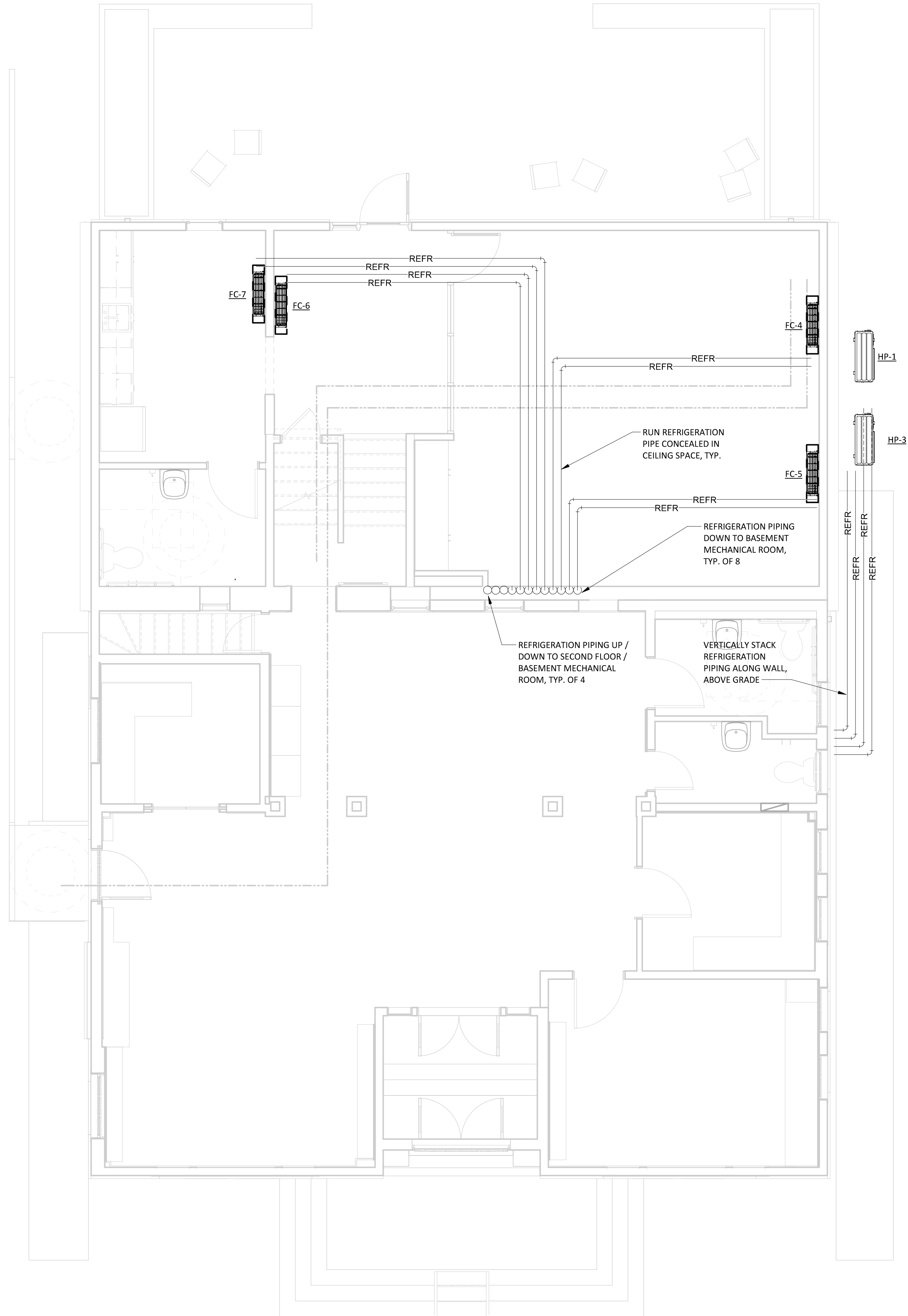
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24'
12'
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SCALE: 3/32" = 1'-0"
10/12/2022 6:26:01 PM



3 MECHANICAL - UPPER FLOOR - PIPING
M03.02 1/4" = 1'-0"



2 MECHANICAL - BASEMENT - PIPING
M03.02 1/4" = 1'-0"



1 MECHANICAL - LOWER FLOOR - PIPING
M03.02 1/4" = 1'-0"

- SHEET NOTES:
- 1 EACH BRANCH OFF MAIN DUCT SHALL HAVE A BALANACING DAMPER INSTALLED BETWEEN THE TAP AND THE GRILL/REGISTER WHETHER SHOWN ON THE DRAWINGS OR NOT
 - 2 FOR DEMO WORK, SEE ARCHITECTURAL DRAWINGS
 - 3 REFRIGERATION PIPING SIZING AND CONNECTIONS BY MANUFACTURER

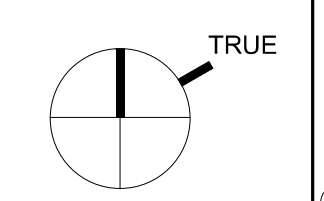


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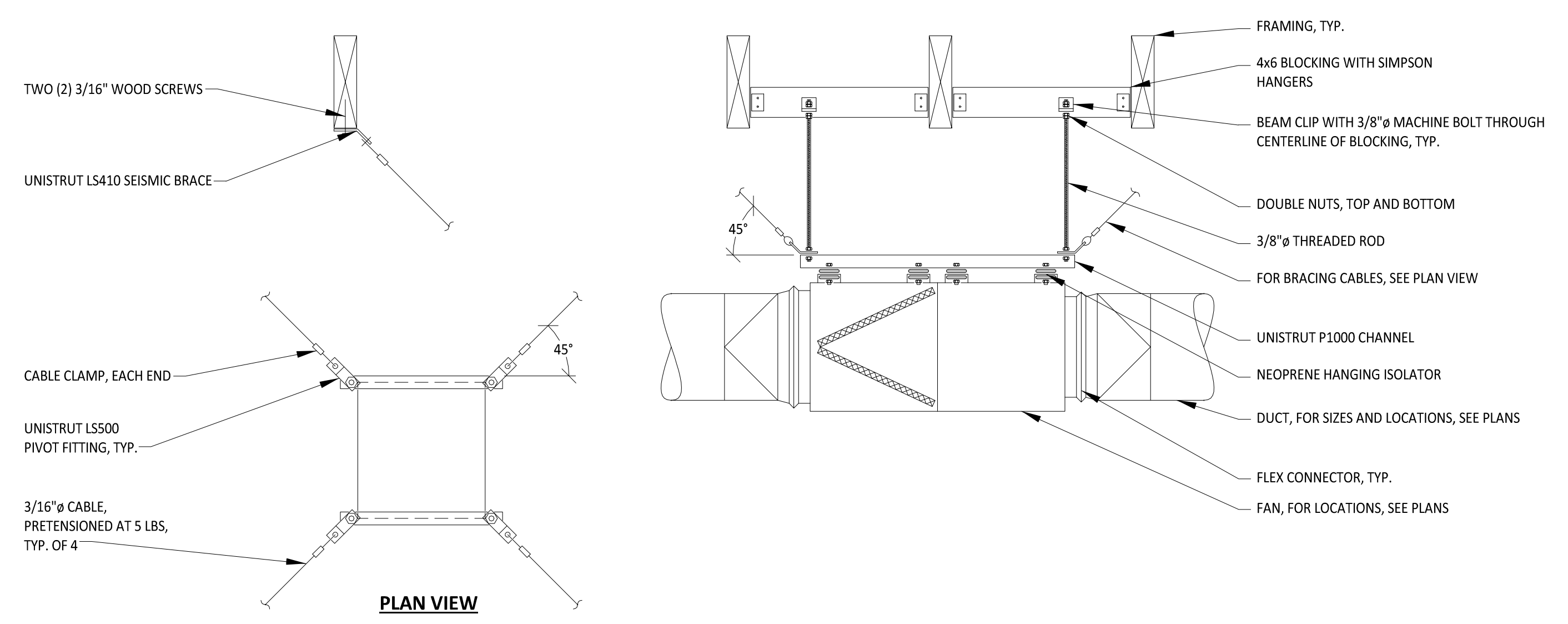
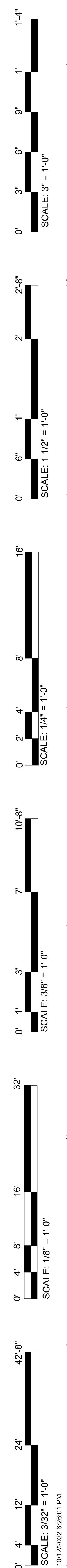
MECHANICAL - BASEMENT, LOWER AND UPPER LEVEL
PIPING PLANS

PROJECT:	20220412	
DATE:	10/12/2022	
No.	Description	Date

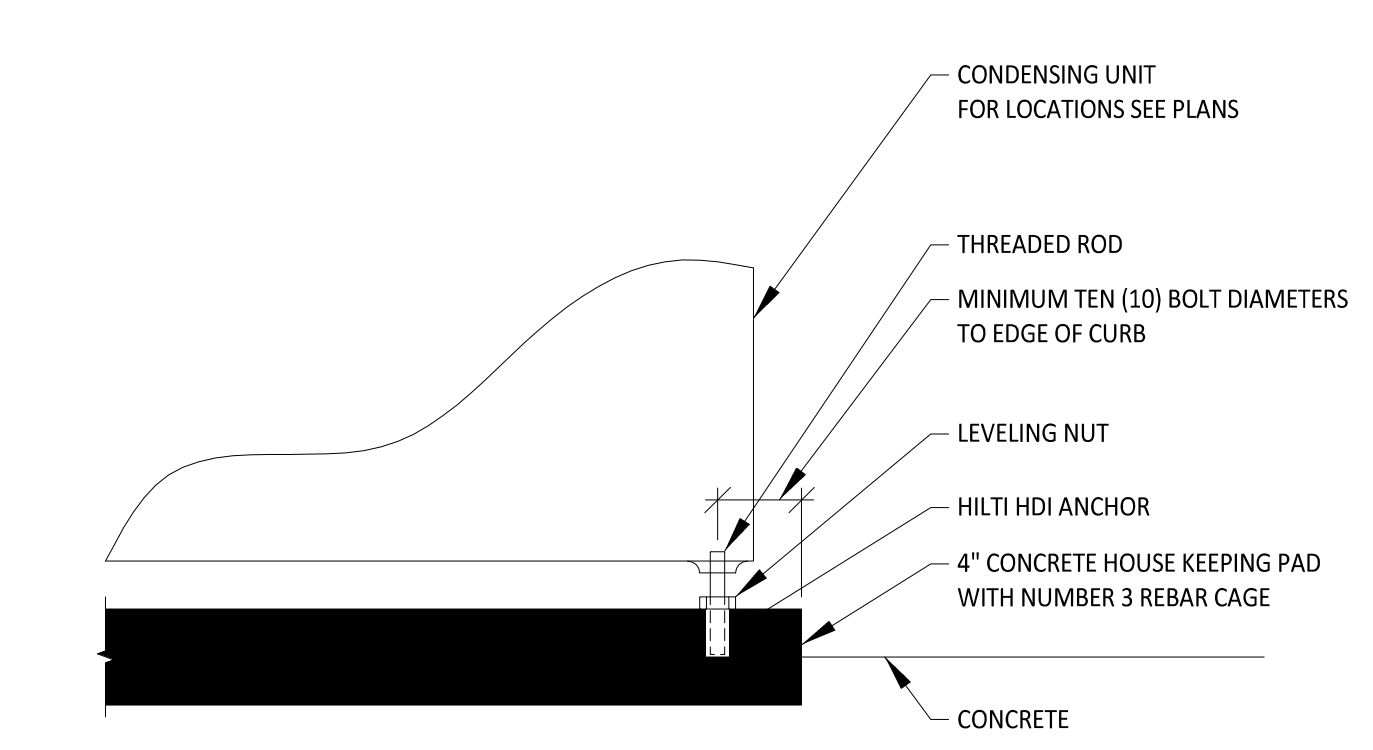
M03.02



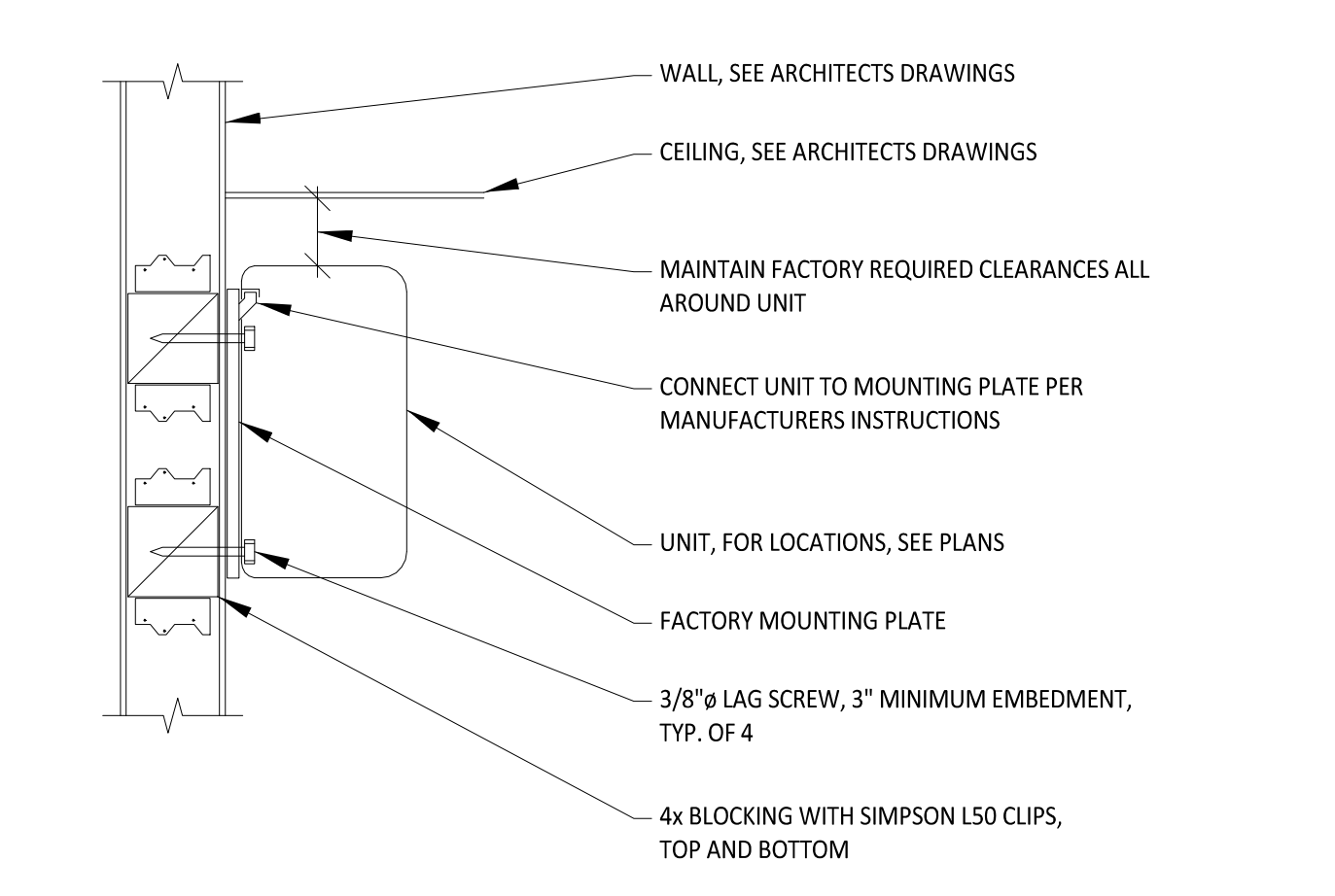
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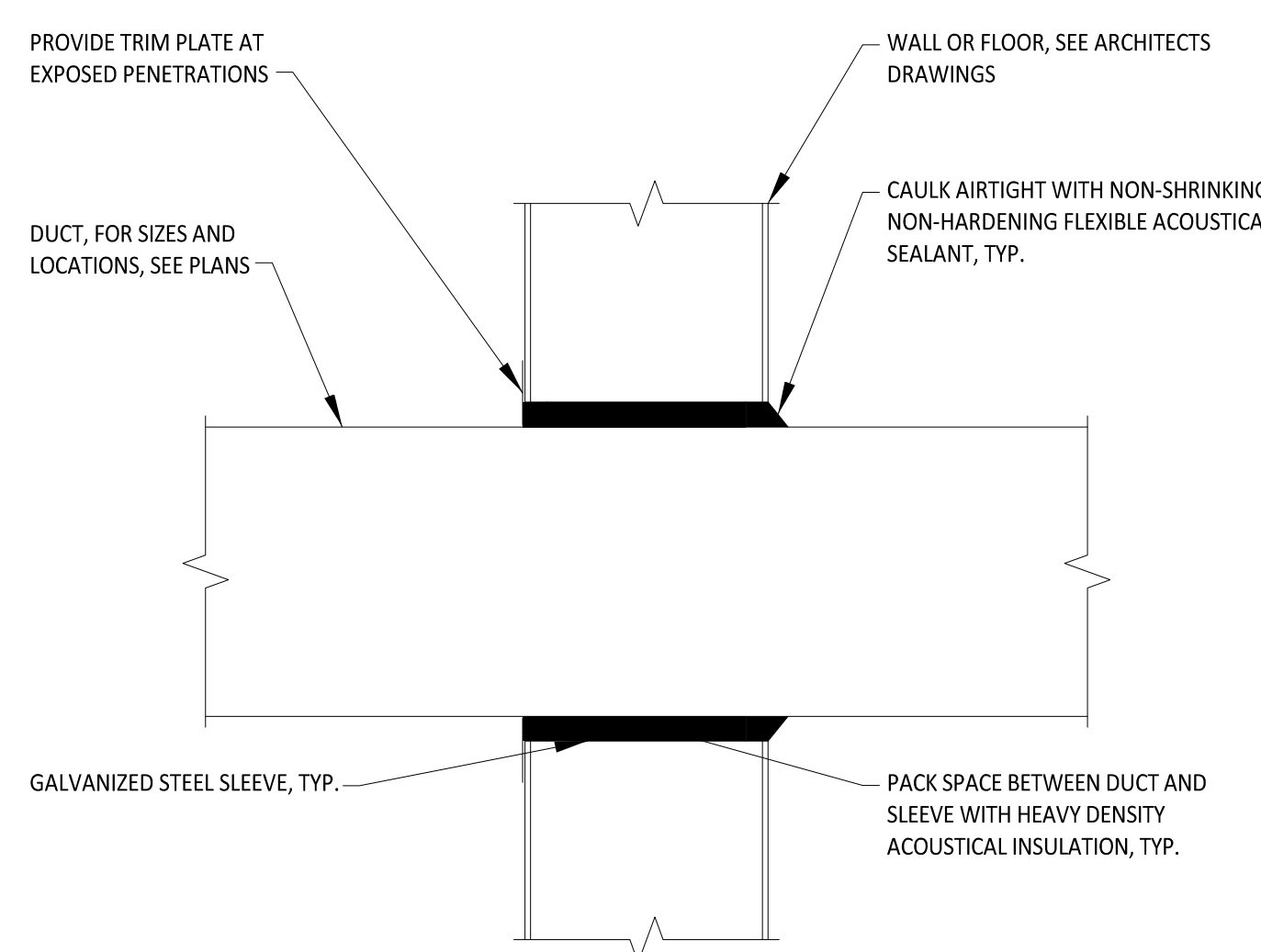
6 INLINE FAN AND FILTER BOX MOUNTING AND BRACING
M8.01 NO SCALE



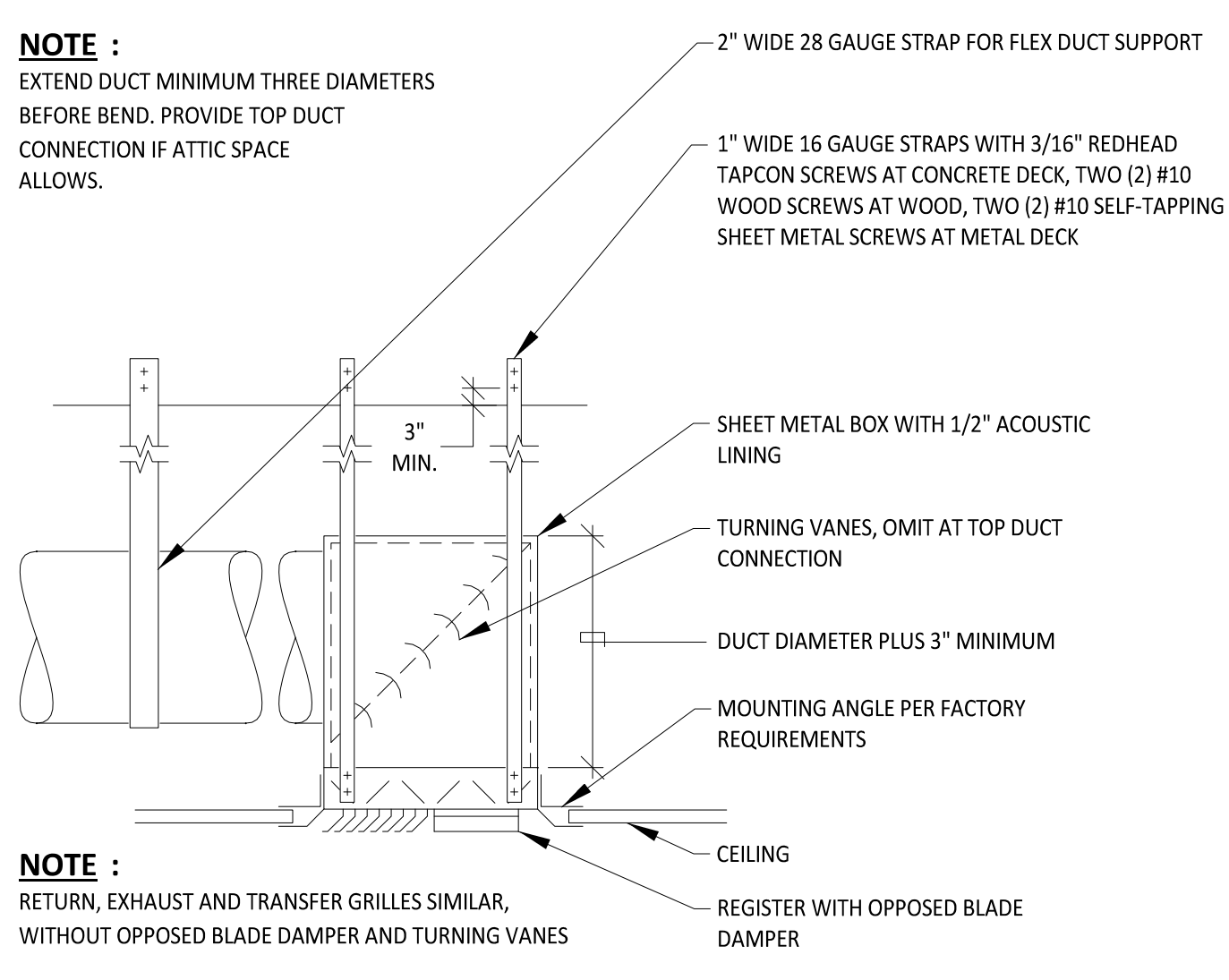
9 HEAT PUMP UNIT MOUNTING
M8.01 NO SCALE



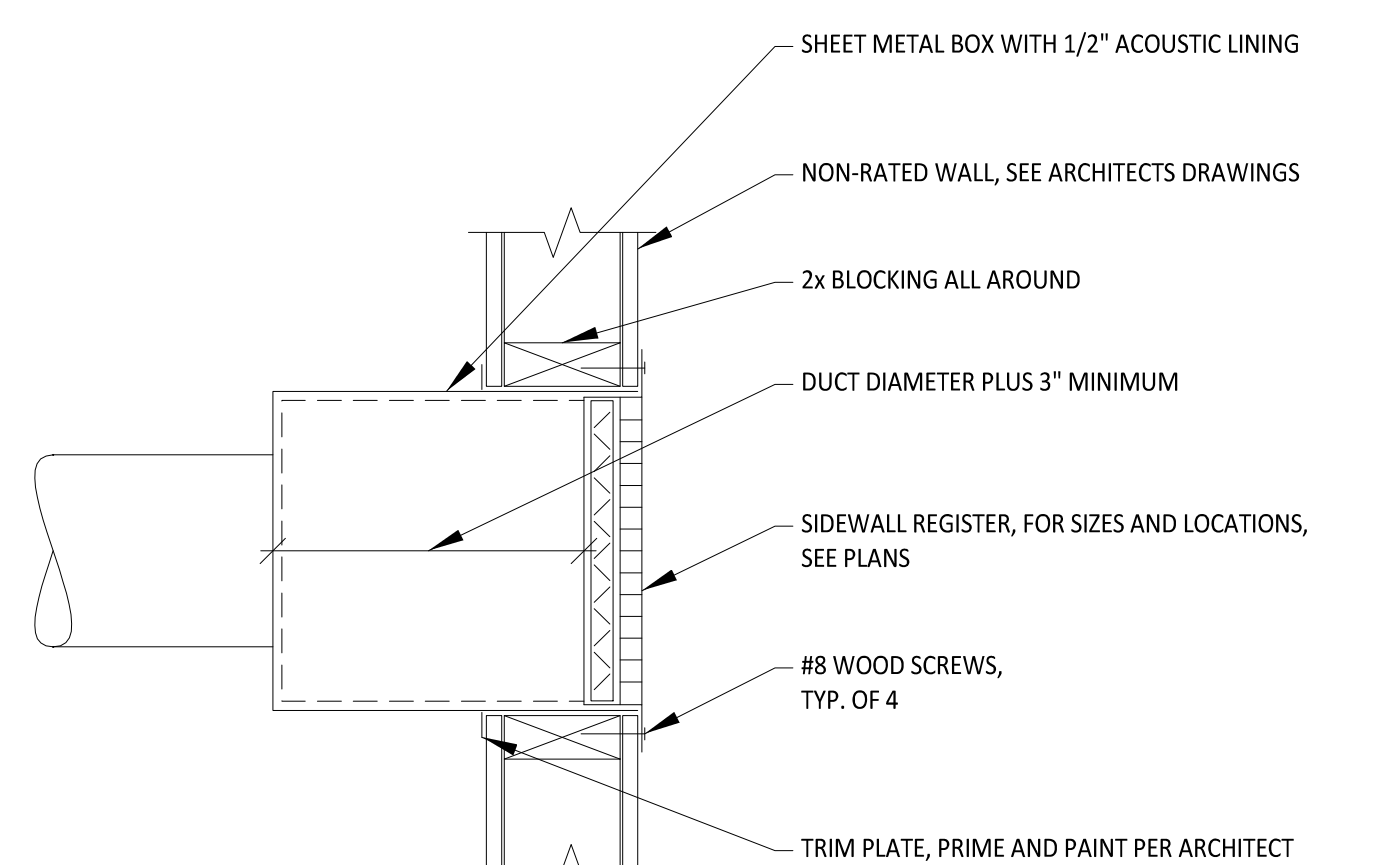
7 FAN COIL MOUNTING
M8.01 NO SCALE



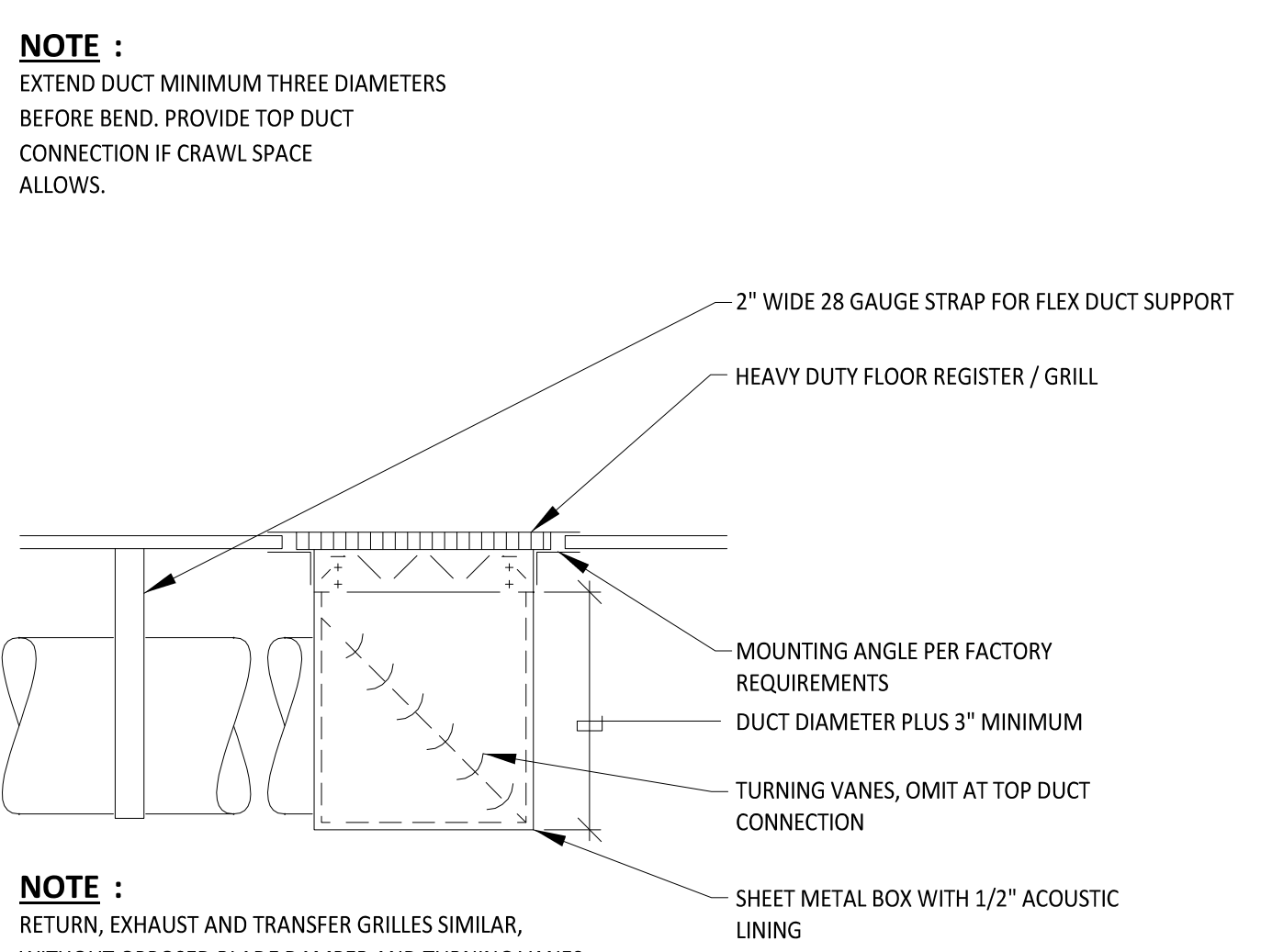
8 DUCT PENETRATION THROUGH WALL OR FLOOR
M8.01 NO SCALE



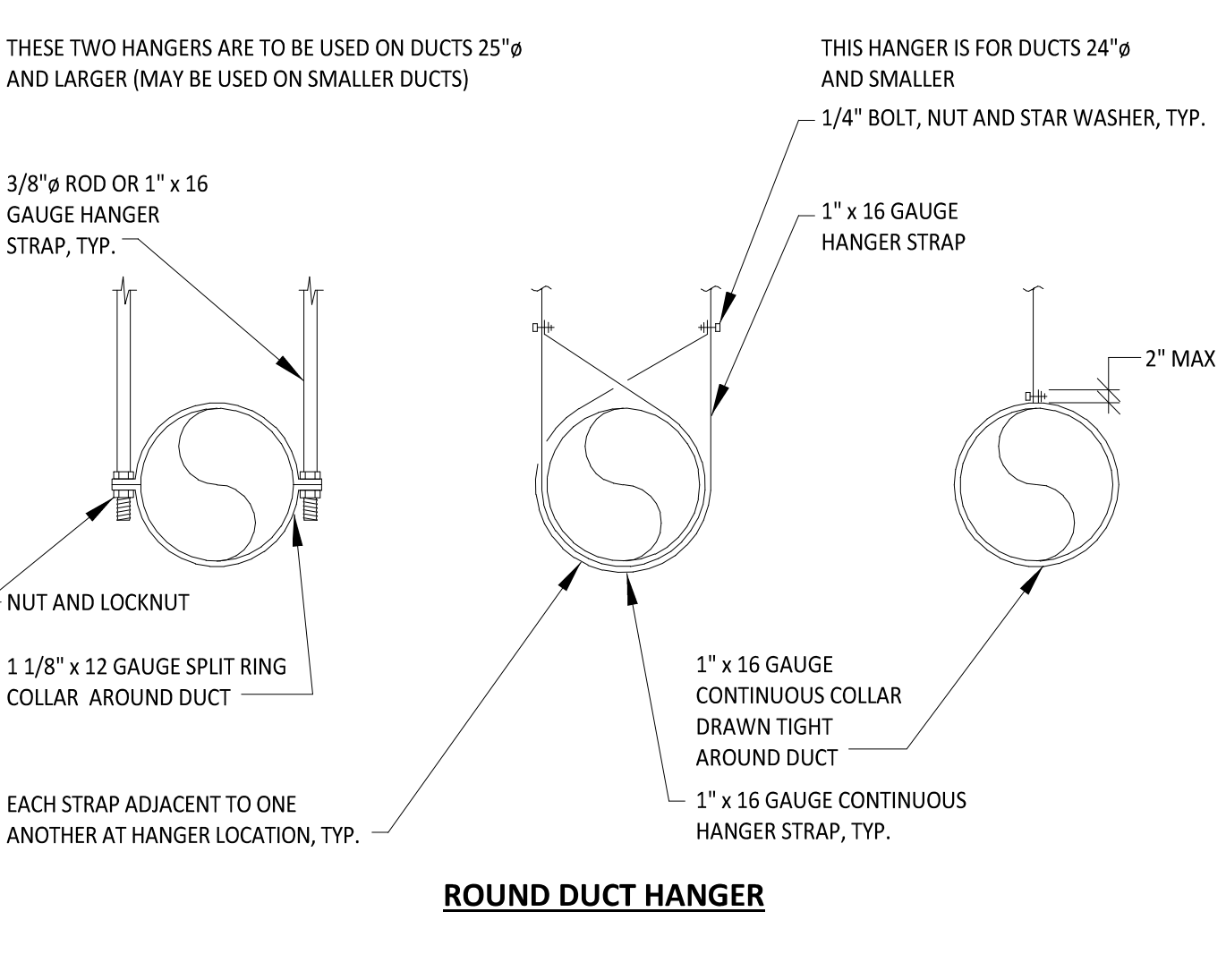
3 DIFFUSER MOUNTING HARD CEILING
M8.01 NO SCALE



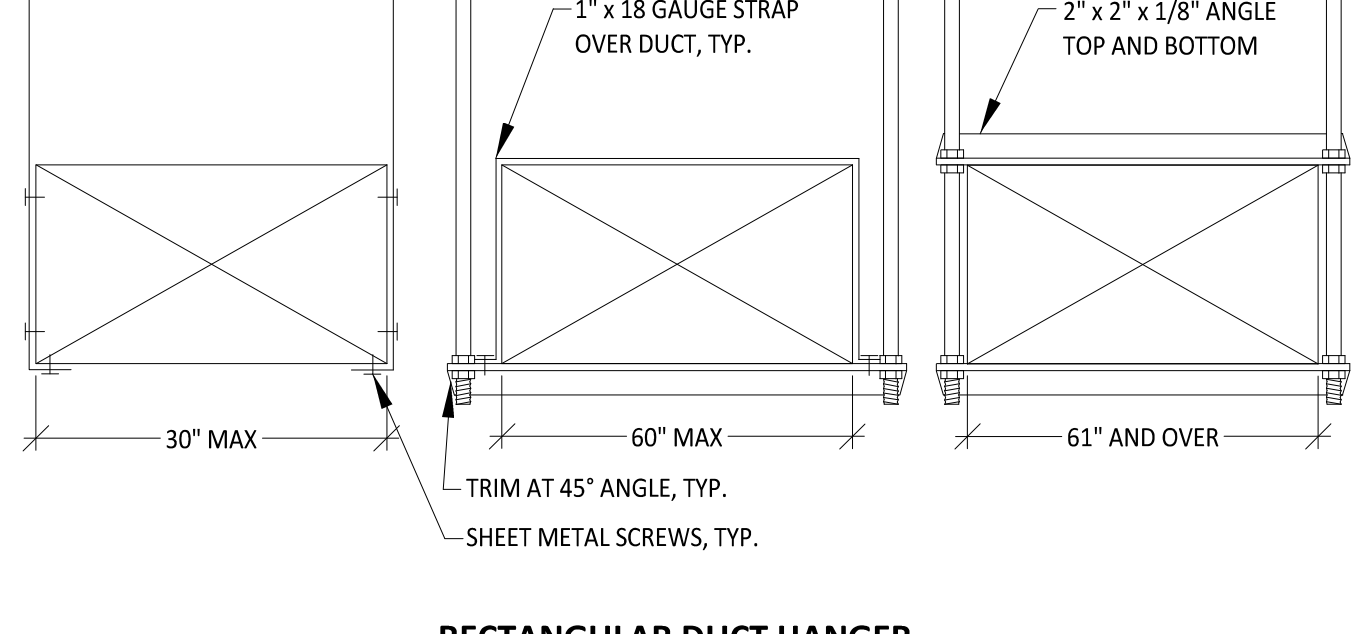
4 SIDEWALL MOUNTING
M8.01 NO SCALE



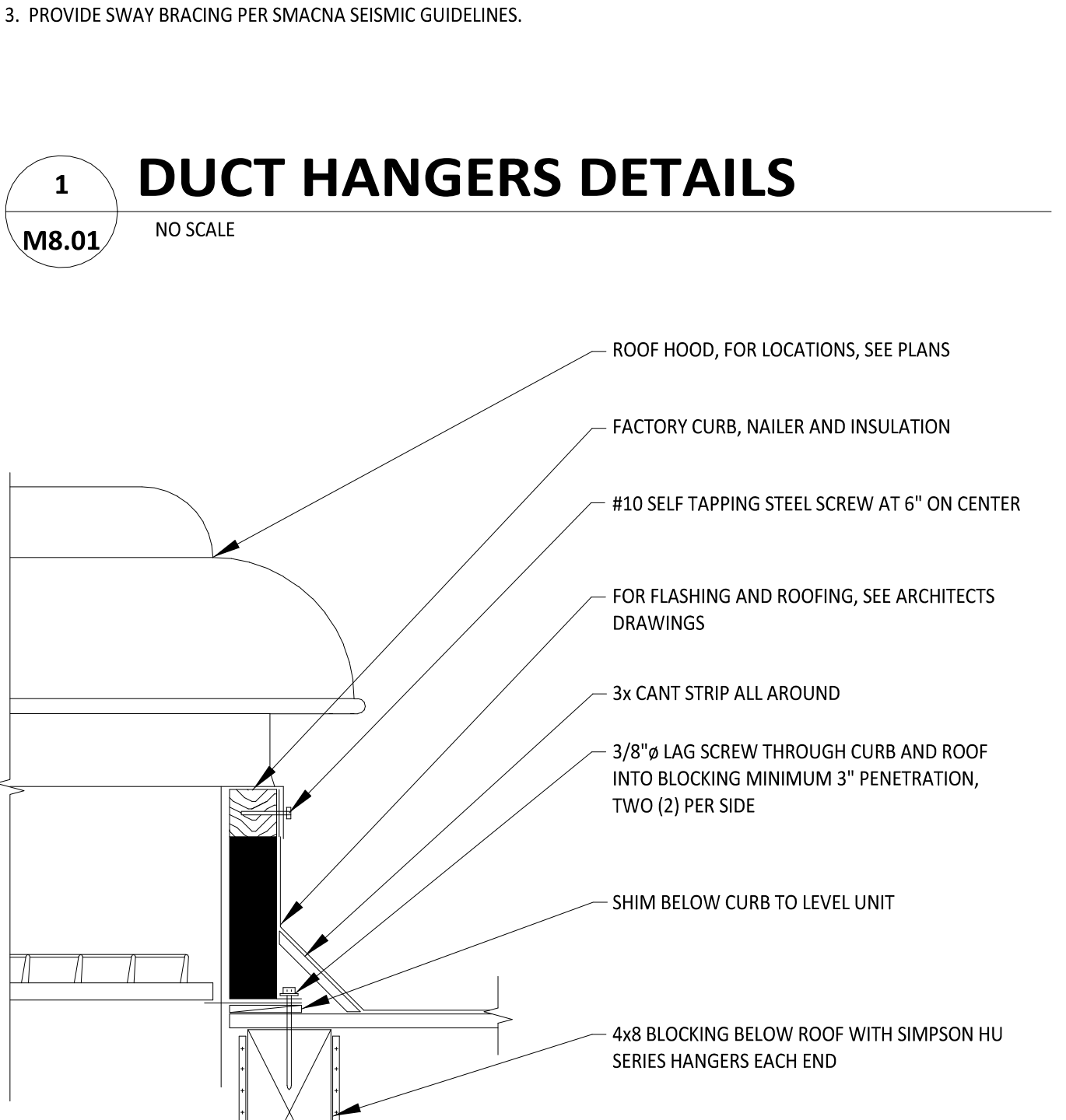
5 DIFFUSER MOUNTING FLOOR
M8.01 NO SCALE



1 DUCT HANGERS DETAILS
M8.01 NO SCALE



2 ROOF HOOD MOUNTING
M8.01 NO SCALE



1 RECTANGULAR DUCT HANGER
M8.01 NO SCALE

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BEND | CORVALLIS
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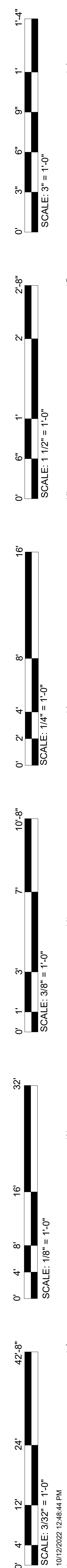
MECHANICAL - DETAILS

PROJECT: 20220412
DATE: 10/12/2022

No.	Description	Date

M08.01

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ELECTRICAL LEGEND

POWER SYMBOLS

SYMBOL	IDENTIFICATION
	MOTOR CONNECTION
	GENERATOR CONNECTION
	FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE
	NON-FUSED DISCONNECT SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE
	JUNCTION BOX
	C = CEILING MOUNTED
	JUNCTION BOX, WALL MOUNTED
	JUNCTION BOX WITH WHIP-STYLE CONNECTION TO POWERED FURNITURE, POWER AND/OR DATA
	TRANSFORMER; BOTTOM OF T DESIGNATES FRONT SIDE
	PANELBOARD OR TERMINAL CABINET; SURFACE MOUNTED
	PANELBOARD OR TERMINAL CABINET; FLUSH MOUNTED
	GROUND BUS BAR
	TRANSFORMER
	AUTOMATIC TRANSFER SWITCH
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	DRAWOUT CIRCUIT BREAKER; RATING AS SHOWN ON PLANS
	STATIONARY - CIRCUIT BREAKER; RATING AS SHOWN ON PLANS
	DISCONNECT; RATING AS SHOWN ON PLANS
	SWITCH AND FUSE; RATING AS SHOWN ON PLANS
	INVERTER
	GROUNDING POINT
	UTILITY METER

CONDUIT SYMBOLS

SYMBOL	IDENTIFICATION
	CONDUIT INSTALLED ABOVE FINISHED FLOOR OR GRADE
	CONDUIT INSTALLED BELOW FINISHED FLOOR OR BELOW GRADE
	INDICATES CONDUIT TURNING UP
	CONDUIT HOMERUN; ROUTE TO PANELBOARD, CABINET, OR TERMINAL BOARD INDICATED, AND TERMINATE CONDUCTORS TO CIRCUIT OVER CURRENT PROTECTIVE DEVICE

LIGHTING SYMBOLS

SYMBOL	IDENTIFICATION
	LUMINAIRE; CEILING OR SURFACE MOUNTED
	LUMINAIRE; WALL MOUNTED
	AREA POLE WITH MOUNTED LUMINAIRE
	LUMINAIRE ON EMERGENCY POWER
	EXIT SIGN; CEILING MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
	EXIT SIGN; WALL MOUNTED; ARROWS AND FACES AS SHOWN ON PLANS
	EMERGENCY FIXTURE; DUAL LAMP HEAD

TELECOM SYMBOLS

SYMBOL	IDENTIFICATION
	TELEPHONE/DATA OUTLET; PROVIDE 1" C. W/ PULL-STRING TO ACCESSIBLE CEILING SPACE
	C = CEILING MOUNTED; BACK BOX ONLY FOR FUTURE WAP UNLESS OTHERWISE NOTED

WIRING DEVICE SYMBOLS

SYMBOL	IDENTIFICATION
	20A, 125V, DUPLEX RECEPTACLE OUTLET
	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET
	SPECIAL PURPOSE RECEPTACLE OUTLET; RATING AS SHOWN; +18" AFF TP CENTERLINE
	20A, 125V, SINGLE RECEPTACLE OUTLET
	A = ABOVE COUNTER
	C = CEILING MOUNTED
	G = GFCI
	S = SWITCHED RECEPTACLE
	T = TAMPER PROOF
	U = WITH (2) USB PORTS
	W = WEATHERPROOF COVER AND GFCI
	+#\" = INCHES ABOVE FINISH FLOOR
	20A, 125V, DUPLEX RECEPTACLE OUTLET; FLOOR RECESSED
	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET; FLOOR RECESSED
	2-CHANNEL FLOOR BOX W/ (2) GANG POWER / (2) GANG DATA; PROVIDE 1" C. FROM EACH DATA OUTLET TO ACCESSIBLE CEILING SPACE. BASIS-OF-DESIGN: WIREMOLD "R184".
	COMMERCIAL CORD REEL RECEPTACLE; CEILING MOUNTED
	\$ SINGLE POLE SWITCH
	\$ X 3 = THREE WAY SWITCH
	\$ X 4 = FOUR-WAY SWITCH
	D = DIMMER SWITCH
	K = KEY OPERATED SWITCH
	M = MOTOR RATED SWITCH
	S = DUAL TECH SENSOR SWITCH
	T = INTERVAL TIMER
	V = LOW VOLTAGE SWITCH
	W = SINGLE POLE WEATHERPROOF SWITCH
	▣ PUSH BUTTON SWITCH
	⊙ OCCUPANCY LIGHT CONTROL SWITCH; CEILING MOUNTED
	⊙ OCCUPANCY LIGHT CONTROL SWITCH; WALL MOUNTED
	C = DUAL TECH WITH CORRIDOR PATTERN
	H = DUAL TECH WITH HIGH BAY SENSOR
	V = DUAL TECH WITH VACANCY SENSOR MODE
	⊙ PHOTOSENSOR; CEILING MOUNTED
	D = DIMMING
	S = SWITCHED
	EV ELECTRIC VEHICLE CHARGING STATION
	⊙ HORN/STROBE COMBINATION; CEILING MOUNTED
	⊙ HORN/STROBE COMBINATION; WALL MOUNTED

DESIGNATION SYMBOLS

SYMBOL	IDENTIFICATION
	GRID LINE DESIGNATOR
	##### FEEDER DESIGNATION TAG
	# SHEET KEYNOTE TAG
	XX-# MECHANICAL EQUIPMENT TAG
	XX-# CONTRACTOR EQUIPMENT TAG
	Δ # REVISION DELTA WITH REVISION NUMBER
	\$ # LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)
	# # NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)

ABBREVIATIONS

ABBRV.	IDENTIFICATION
AC	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AF	FRAME RATING IN AMPERES
AS	SWITCH RATING IN AMPERES
AT	TRIP RATING IN AMPERES
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
C	CONDUIT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CEC	CALIFORNIA ELECTRIC CODE
CL	CENTERLINE
CONN	CONNECTED
DC	DIRECT CURRENT
DPDT	DOUBLE POLE, DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
(E)	EXISTING TO REMAIN
ELEV	ELEVATOR
EMT	ELECTRO METALLIC TUBING
EWV	ELECTRIC WATER COOLER
EWV	ELECTRIC WATER HEATER
FVNR	FULL-VOLTAGE, NON-REVERSING
FVR	FULL-VOLTAGE, REVERSING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
IG	ISOLATED GROUND
LR	LIGHTING RELAY CABINET
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OFI	OWNER FURNISHED, CONTRACTOR INSTALLED
PH	PHASE
PP	POWER POLE
PTS	PNEUMATIC TUBE STATION
PVC	POLYVINYL CHLORIDE CONDUIT
(R)	RELOCATE EXISTING
RSC	RIGID STEEL CONDUIT
SPD	SURGE PROTECTION DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPST	SINGLE POLE, SINGLE THROW
TB	TERMINAL BACKBOARD
TC	TERMINAL CABINET
TEL	TELEPHONE
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WEATHERPROOF
WAP	WIRELESS ACCESS POINT
W/	WITH
(X)	REMOVE EXISTING
XFMR	TRANSFORMER
XP	EXPLOSION PROOF

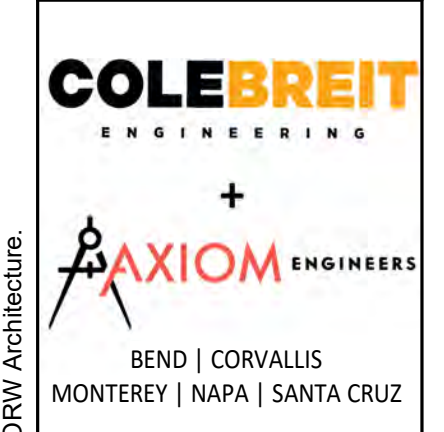
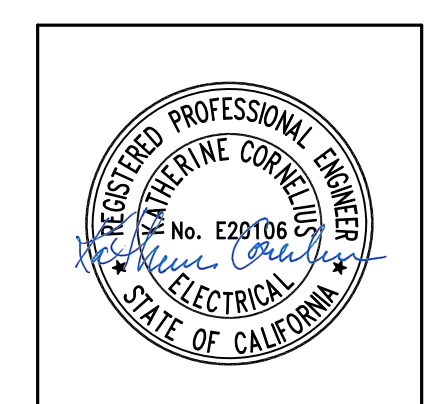
LEGEND NOTES:

- A. ALL SYMBOLS MAY NOT BE USED IN THIS PROJECT.
- B. SYMBOLS DO NOT ALWAYS REPRESENT REAL LIFE DIMENSIONS.
- C. SEE BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- D. SEE DETAIL SHEETS FOR TYPICAL MOUNTING HEIGHTS OF DEVICES.

GENERAL ELECTRICAL NOTES:

- A. BUILDING IS COVERED UNDER 2019 CHBC SECTION 8-901.5 ENERGY CONSERVATION. QUALIFIED HISTORICAL BUILDINGS OR PROPERTIES COVERED BY THIS PART ARE EXEMPTED FROM COMPLIANCE WITH ENERGY CONSERVATION STANDARDS.

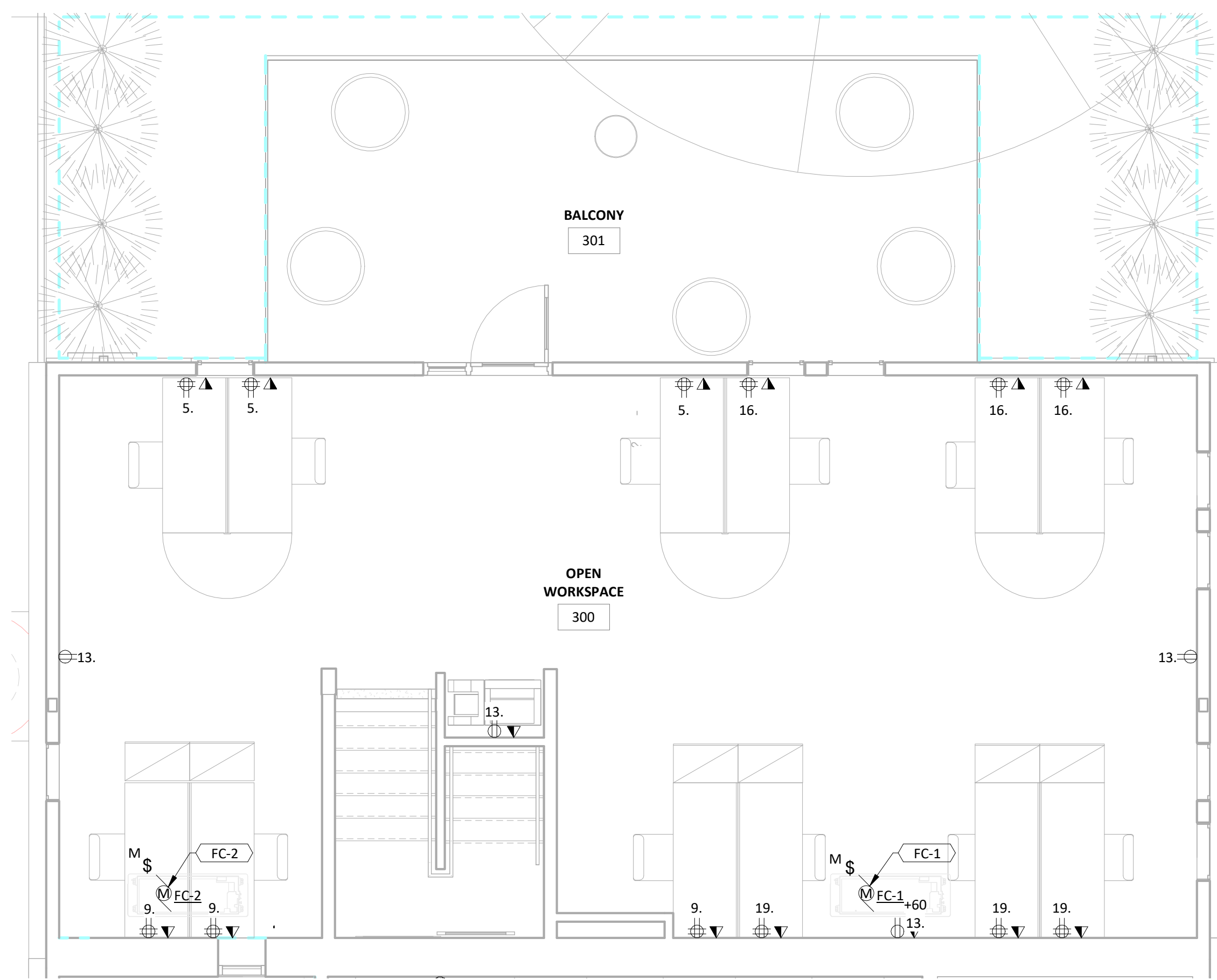
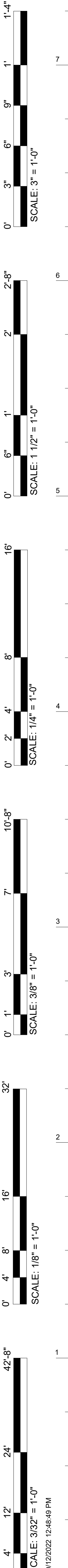
ELECTRICAL SHEET KEY	
SHEET NUMBER	DESCRIPTION
E00.10	ELECTRICAL - LEGEND & NOTES
E00.20	ELECTRICAL - LUMINAIRE SCHEDULE AND LIGHTING CONTROLS
E02.01	ELECTRICAL - BASEMENT, LOWER, AND UPPER LEVEL REFLECTED CEILING PLANS - LIGHTING
E03.01	ELECTRICAL - BASEMENT, LOWER, AND UPPER LEVEL FLOOR PLANS - POWER AND DATA
E04.01	ELECTRICAL - ONE-LINE DIAGRAM AND SCHEDULES
E05.01	ELECTRICAL - DETAILS



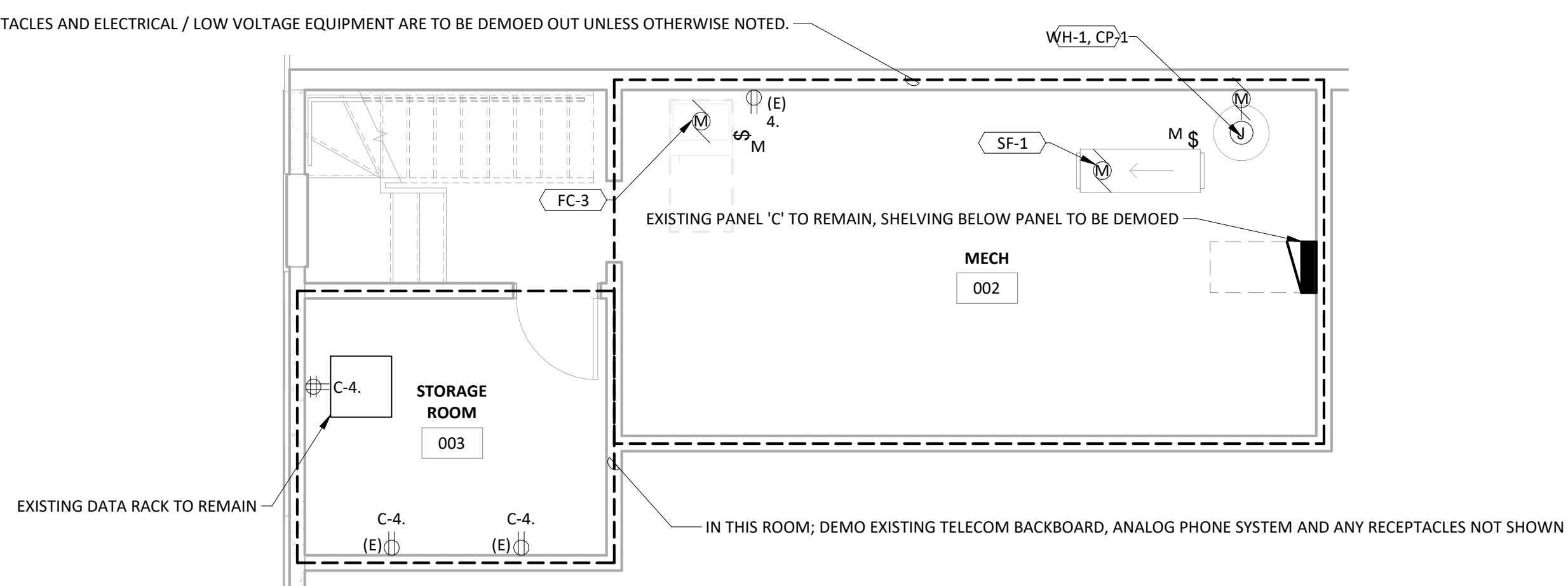
PROJECT: 20220412
 DATE: 10/12/2022
 YREKA CARNEGIE LIBRARY REHABILITATION
 412 W MINER ST., YREKA, CA 96097
 ELECTRICAL - LEGEND & NOTES

No.	Description	Date

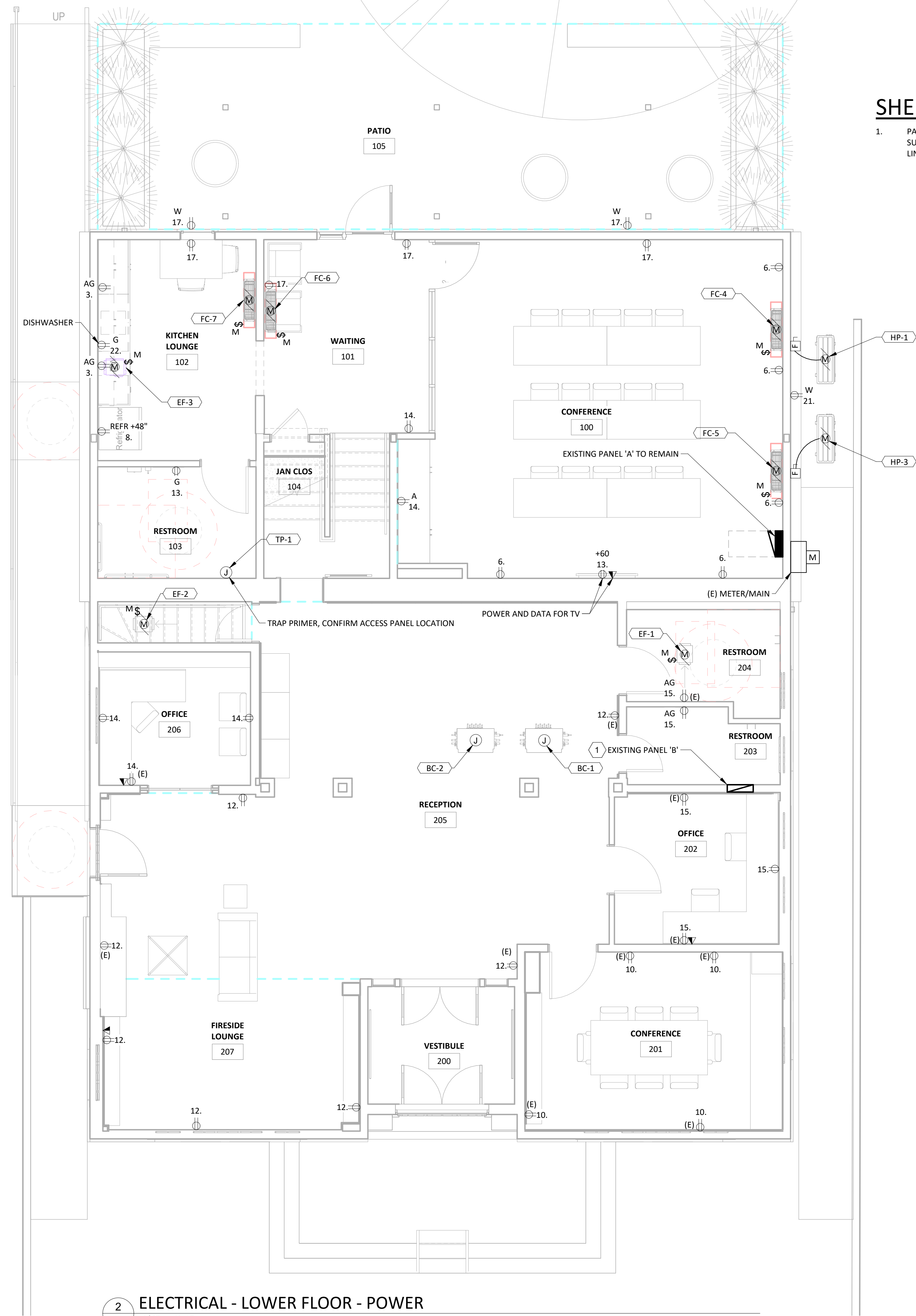
E00.10
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3 ELECTRICAL - UPPER FLOOR - POWER
E03.01 1/4" = 1'-0"



1 ELECTRICAL - BASEMENT - POWER
E03.01 1/4" = 1'-0"



2 ELECTRICAL - LOWER FLOOR - POWER
E03.01 1/4" = 1'-0"

GENERAL ELECTRICAL NOTES:

- A. PROVIDE NEW DEVICES AND FACEPLATES AT EXISTING-TO-REMAIN RECEPTACLE LOCATIONS; INDICATED WITH '(E)'
- B. CIRCUIT DESIGNATIONS THIS SHEET ARE TO PANEL 'A' UNLESS OTHERWISE NOTED.

SHEET KEYNOTES:

- 1. PANEL 'B' TO BE CONVERTED INTO SPLICE BOX FOR SUBFEED FROM PANEL 'A' TO PANEL 'C'. SEE ONE LINE DIAGRAM FOR FURTHER INFORMATION.

PROJECT:	20220412	
DATE:	10/12/2022	
No.	Description	Date

1'-4"
1'
9"
6"
3"
0'
SCALE: 3" = 1'-0"

2'-8"
2'
0'
SCALE: 1 1/2" = 1'-0"

16"
8"
4"
2"
0'
SCALE: 1/4" = 1'-0"

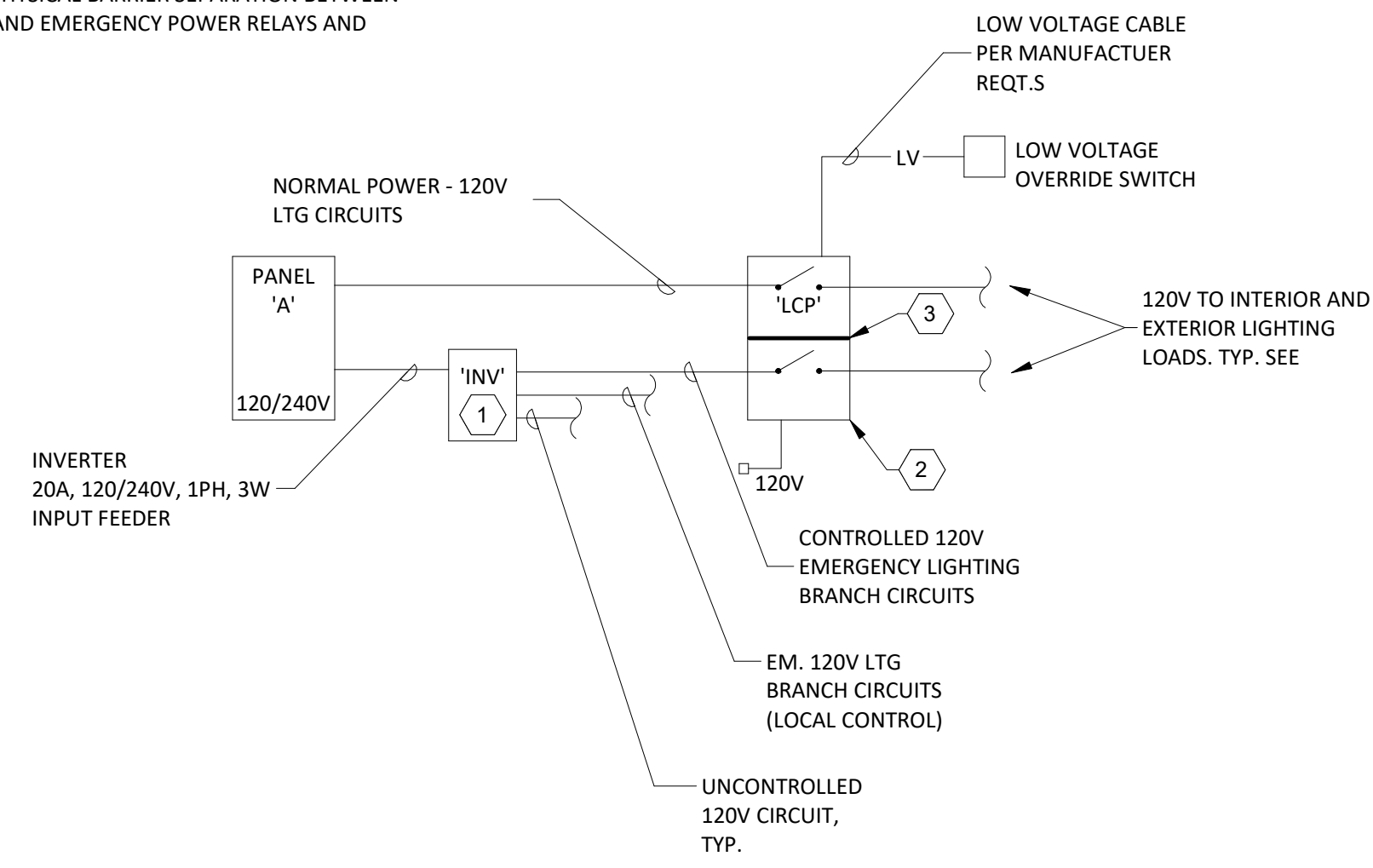
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32"
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4"
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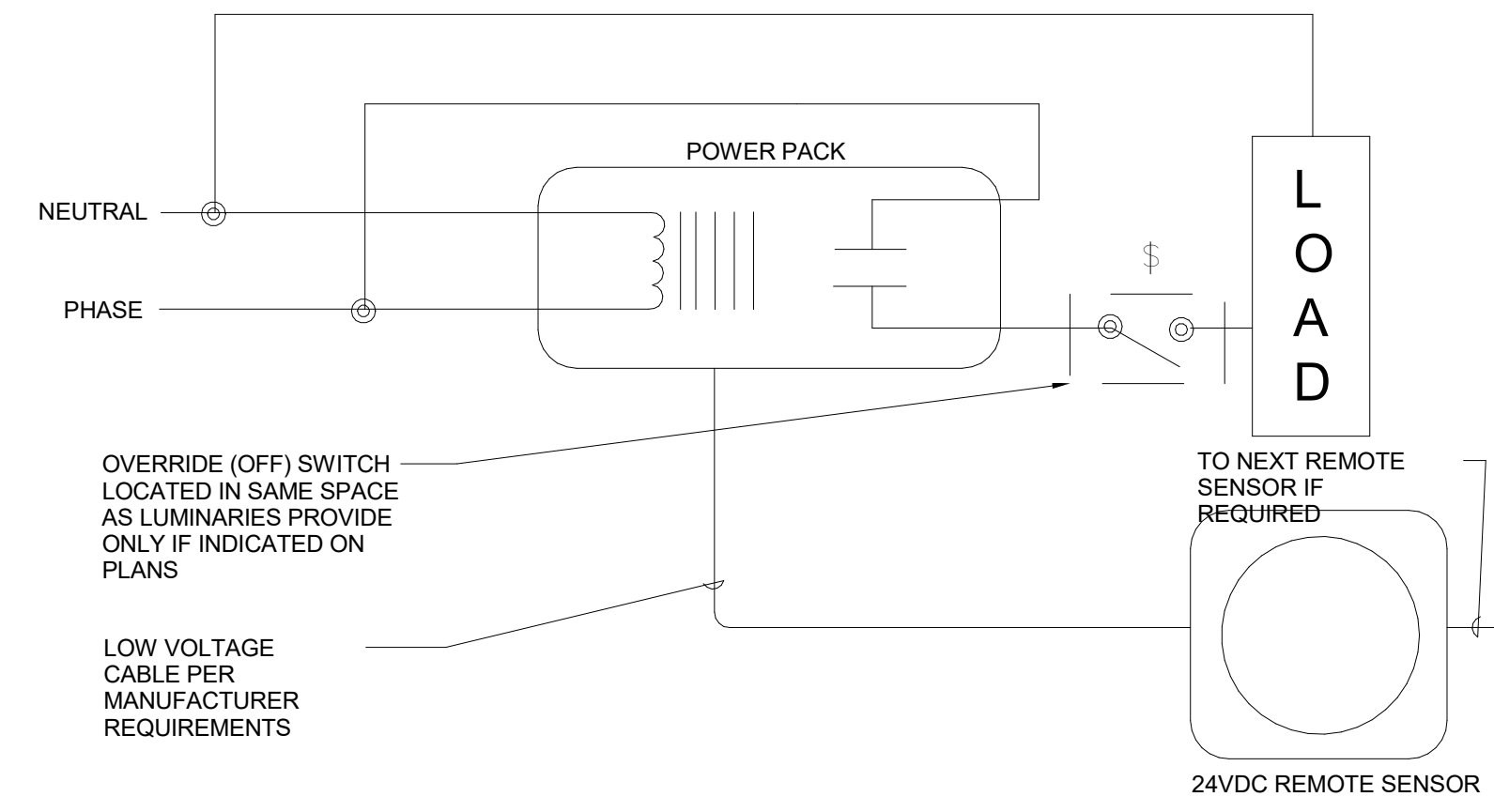
42'-3"
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DETAIL KEYNOTES:

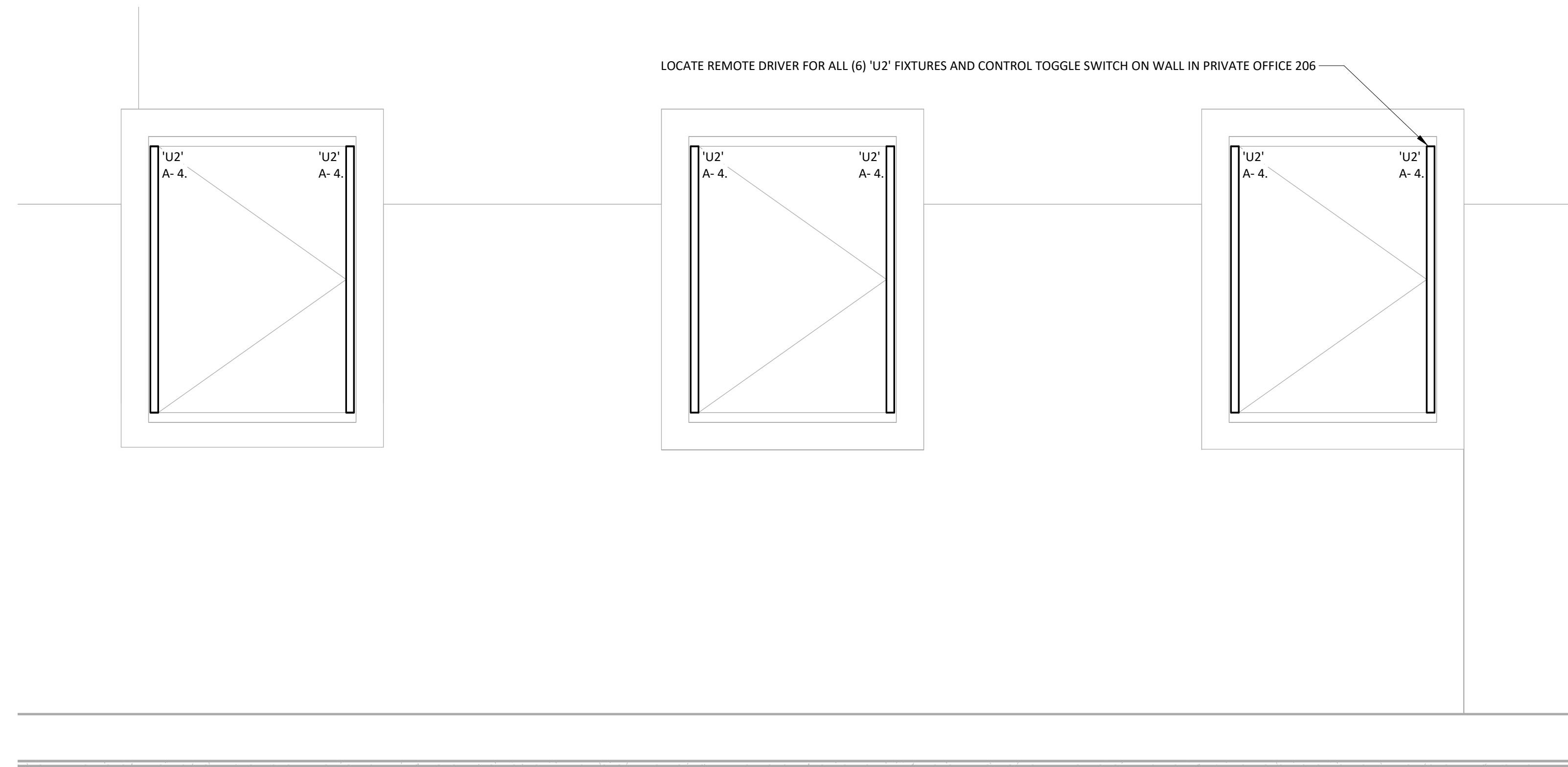
- EMERGENCY LIGHTING. INVERTER WITH 90 MINUTE BATTERY BACKUP. EQUIVALENT TO MEYERS #
- LIGHTING RELAY PANEL WITH 8 RELAYS AND ASTRONOMICAL TIMECLOCK, BASIS OF DESIGN AND WAITSTOPPER (MCP WITH EM RELAY).
- PROVIDE PHYSICAL BARRIER SEPARATION BETWEEN NORMAL AND EMERGENCY POWER RELAYS AND WIRING.



3 LCP-1 DETAIL
E05.01 12" = 1'-0"



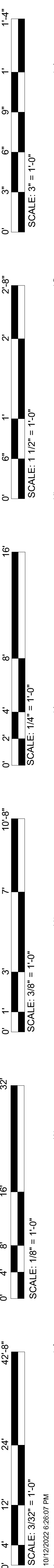
2 OCCUPANCY SENSOR DETAIL
E05.01 12" = 1'-0"



1 DISPLAY LIGHTING DETAIL
E05.01 1" = 1'-0"

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No.	Description	Date

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GENERAL NOTES:

- A. SUPPORT PIPES TIGHT TO STRUCTURE WHEREVER POSSIBLE.
- B. ALL PIPING IS CONCEALED AND WITHIN ENVELOPE OF BUILDING UNLESS OTHERWISE NOTED. ANY REQUIRED EXPOSED PIPING MUST BE COORDINATED WITH ARCHITECT.
- C. ALL HORIZONTAL WASTE LINES TO HAVE MINIMUM OF 1/4 INCH PER FOOT SLOPE UNLESS OTHERWISE NOTED.
- D. ALL DRAINAGE LINE CHANGE IN FLOW DIRECTION CONNECTIONS SHALL BE IN ACCORDANCE WITH CALIFORNIA PLUMBING CODE.
- E. WHERE BRANCH SIZES ARE NOT SHOWN, BRANCH SIZE SHALL BE SAME AS THAT SHOWN IN PLUMBING FIXTURE SCHEDULE.
- F. PROVIDE OPERATING AND MAINTENANCE MANUAL TO OWNER UPON SYSTEM COMMISSIONING.
- G. PROVIDE ACCESSIBLE FULL-WAY SHUT-OFF VALVES ON THE DISCHARGE SIDE OF WATER METER AND TO THE COLD WATER SUPPLY PIPE TO WATER HEATER.
- H. PROVIDE FULL-WAY COLD WATER AND HOT WATER SUPPLY SHUT-OFF VALVES IN EACH UNIT ACCESS PANEL.
- I. PROVIDE ACCESS PANEL TO SHUTOFF VALVES WHERE REQUIRED.
- J. ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR. PROVIDE AND INSTALL RIGID CONDUIT IN AREAS EXPOSED TO THE ELEMENTS.
- K. PROVIDE MECHANICAL WATER HAMMER ARRESTOR AT QUICK-ACTING VALVES, SIZED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- L. LIMIT LAVATORY AND SINK TEMPERATURE TO 120°F FOR SCALDING PREVENTION.
- M. PROVIDE CLEANOUTS AT THE BASE OF ALL WASTE STACKS, AT UPPER TERMINALS OF HORIZONTAL DRAINAGE PIPES, IN LOCATIONS REQUIRED BY CODE, AND AS SHOWN ON DRAWINGS.
- N. ROUTE ALL CONDENSATE TO APPROVED RECEPTACLE.
- O. HEAT TRACE AND INSULATE ALL WASTE AND WATER PIPING EXPOSED TO FREEZING.
- P. ALL FLOOR DRAINS AND FLOOR SINKS AND SIMILAR TRAPS SHALL BE PROVIDED WITH AN APPROVED AUTOMATIC MEANS OF MAINTAINING THEIR WATER SEAL. UNLESS TRAP PRIMERS IS CALLED OUT ON SCHEDULE TRAP PRIMER TYPE, MAKE AND MODEL SHALL BE SELECTED BY CONTRACTOR AND COORDINATED WITH ALL TRADES.

PLUMBING LEGEND

VALVE SYMBOLS

SYMBOL IDENTIFICATION

- GATE VALVE
- GATE VALVE; VERTICAL ORIENTATION
- SHUT-OFF VALVE
- GAS PRESSURE REGULATOR
- BALL VALVE
- GLOBE VALVE
- BUTTERFLY VALVE
- BALANCING VALVE
- CIRCUIT SETTER
- SOLENOID VALVE
- PRESSURE REDUCING VALVE
- TEMPERATURE AND PRESSURE RELIEF VALVE
- ANGLE VALVE
- ANGLE VALVE; VERTICAL ORIENTATION
- PRESSURE REGULATING VALVE
- CHECK VALVE
- WYE STRAINER
- REDUCED PRESSURE ZONE ASSEMBLY
- DOUBLE CHECK ASSEMBLY

PIPING SYMBOLS

SYMBOL IDENTIFICATION

- COLD WATER PIPE; SIZES AS SHOWN ON PLANS
- HOT WATER PIPE; SIZES AS SHOWN ON PLANS
- HOT WATER RETURN PIPE; SIZES AS SHOWN ON PLANS
- WASTE PIPE; SIZES AS SHOWN ON PLANS
- VENT PIPE; SIZES AS SHOWN ON PLANS
- PIPE CONTINUED
- PIPE UP
- PIPE DROP
- PIPE DROP AT TEE
- PIPE CAP
- PIPE UP OR DOWN THROUGH LEVEL
- PIPE TRANSITION
- TEE
- TEE; ISOMETRIC VIEW
- FLEXIBLE CONNECTION
- PRESSURE/TEMPERATURE PLUG
- UNION
- WATER HAMMER ARRESTOR
- GRADE CLEANOUT OR FLOOR CLEANOUT
- WALL CLEANOUT
- THERMOMETER
- PRESSURE GAUGE
- TEMPERATURE GAUGE
- ACCESS DOOR
- WATER HAMMER ARRESTOR
- DOWNSPOUT NOZZLE

FIXTURE SYMBOLS

SYMBOL IDENTIFICATION

- HOSE BIBB
- PUMP
- CIRCULATION PUMP
- FLOOR DRAIN
- FLOOR SINK

DESIGNATION SYMBOLS

SYMBOL IDENTIFICATION

- GRID LINE DESIGNATOR
- SHEET KEYNOTE TAG
- CONTRACTOR EQUIPMENT TAG
- REVISION DELTA WITH REVISION NUMBER
- POINT OF CONNECTION

MARK	FIXTURE DESCRIPTION	FIXTURE MANUFACTURER	FIXTURE MODEL	CONNECTION SIZE			MINIMUM BRANCH SIZE			NOTES	
				W	CW	HW	W	V	CW		HW
WC-1	WATER CLOSET	SLOAN	8010	3"	1"	-	3"	2"	1-1/2"	-	1.28 GPF Pressure Assisted Flush Tank
L-1	LAVATORY	AM. STD.	0955	1-1/4"	3/8"	3/8"	1-1/2"	1-1/2"	3/4"	3/4"	SLOAN BASYS Mid height, 0.5 GPM
S-1	SINK	JUST	SL-151	1-1/4"	3/8"	3/8"	1-1/2"	1-1/2"	3/4"	3/4"	Chicago Faucet 431
FD-1	FLOOR DRAIN	ZURN	Z4158	2"	-	-	2"	1-1/2"	-	-	With trap primer, TP-1
TP-1	TRAP PRIMER	PPP	MPB-500	-	1/2"	-	-	-	3/4"	-	115v-1ph-60hz
MS-1	MOP SINK	ZURN	Z5850	2"	3/8"	3/8"	2"	1-1/2"	3/4"	3/4"	Chicago Faucet 815 Wall Mounted faucet
WH-1	ELECTRIC WATER HEATER			AO SMITH DEL -50			-	-	3/4"	3/4"	240V/1ø, Drain Pan, Watts Series WDS with electronically actuated resettable shutoff valve, CP-1; Circ. pump, B&G PL-36, control with aquastat set at 115°F, 230V/1ø

WATER SERVICE CALCULATIONS

MARK	FIXTURE GROUP	OCC. TYPE	QTY	CW WSFU EACH	HW WSFU EACH	TOT. HW WSFU	TOT. CW WSFU
FLOOR/REGION							
WC-1	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	3	2.5	0	0	7.5
L-1	LAVATORY	PUBLIC	3	1	0.75	2.25	3
S-1	SINK, KITCHEN, DOMESTIC	PUBLIC	1	1.5	1.125	1.125	1.5
DW-1	DISHWASHER, DOMESTIC	PRIVATE	1	1.5	1.125	1.125	1.5
S-1	SINK, SERVICE OR MOP BASIN	PRIVATE	1	1.5	1.125	1.125	1.5
SUB TOTAL						5.625	15
BUILDING TOTAL WSFU:						5.625	15
SYSTEM TYPE: Flush Tanks							
TOTAL WSFU FLOW:						5.6 GPM	11.5 GPM
FLOW AND PRESSURE CALCULATIONS							
DESIGN FLOW RATE							11.5 GPM
SITE WATER SUPPLY DESIGN INFORMATION							
DAILY SITE SERVICE PRESSURE							60.0 PSIG
TOTAL EQUIVALENT PIPE LENGTH FROM METER TO POC 5 FEET FROM BUILDING							0.0 FT
MAIN SIZE FROM WATER METER TO POC 5 FEET FROM BUILDING							1" IN
A) PRESSURE LOSS FROM PIPING AT DESIGN FLOW RATE FROM WATER METER TO POC 5 FEET FROM BUILDING							0.0 PSIG
B) WATER METER PRESSURE LOSS							1" METER 9.0 PSIG
TOTAL SITE LEVEL PRESSURE LOSS (A+B+C+D)							9.0 PSIG
BUILDING WATER SUPPLY DESIGN INFORMATION							
TOTAL PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICALLY REMOTE FIXTURE							140.0 FT
TOTAL EQUIVALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICALLY REMOTE FIXTURE							186.7 FT
DAILY SERVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE PRESSURE - TOTAL SITE LEVEL PRESSURE LOSS)							51.0 PSIG
DESIGN SERVICE PRESSURE AT BUILDING							51.0 PSIG
REQUIRED RESIDUAL PRESSURE AT FURTHEST UNIT/FIXTURE							25.0 PSIG
AVAILABLE PRESSURE FOR PIPING							26.0 PSIG
SERVICE MAIN NOMINAL PIPE SIZE							1" IN
NOTES:							
1. SIZED IN ACCORDANCE WITH CPC 2019, APPENDIX A.							
2. CONTRACTOR SHALL VERIFY SUPPLY PRESSURE, METER/BACKFLOW SIZE & TYPE AND REPORT ANY DISCREPANCIES TO ENGINEER.							
3. METER PRESSURE LOSS BASED ON 1" METER TYPE AT DESIGN FLOW RATE.							

DFU CALCULATIONS

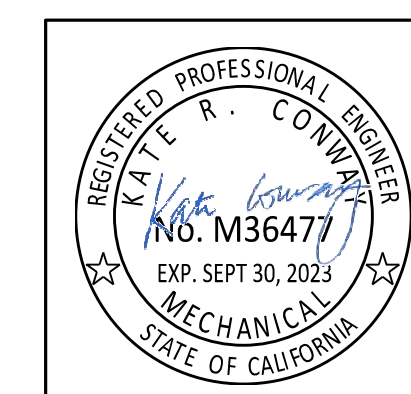
MARK	FIXTURE GROUP	OCC. TYPE	QTY	MIN TRAP SIZE	DFU EACH	TOT. DFU
FLOOR/LEVEL						
L-1	LAVATORY, SINGLE	PUBLIC	3	1-1/4"	1	3
WC-1	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	3	3"	4	12
MS-1	SINK SERVICE OR MOP BASIN	PRIVATE	1	2"	-	0
S-1	SINK KITCHEN, DOMESTIC	PRIVATE	1	1-1/2"	2	2
SUBTOTAL					17	
SITE WASTE TOTAL					17	
NOTES:						
1. PROVIDE 4" MINIMUM WASTE. CONTRACTOR TO VERIFY USEABILITY OF EXISTING WASTE LINE						

PLUMBING SHEET KEY

SHEET NUMBER	DESCRIPTION
P00.10	PLUMBING - LEGEND, SCHEDULES, & NOTES
P03.01	PLUMBING - BASEMENT, LOWER AND UPPER LEVEL FLOOR PLANS
P08.01	PLUMBING - DETAILS

LEGEND NOTES:

- A. ALL SYMBOLS MAY NOT BE USED IN THIS PROJECT.
- B. SYMBOLS DO NOT ALWAYS REPRESENT REAL LIFE DIMENSIONS.
- C. SEE BOOK SPECIFICATIONS FOR ADDITIONAL INFORMATION.



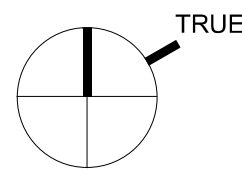
BEND | CORVALLIS
MONTEREY | NAPA | SANTA CRUZ

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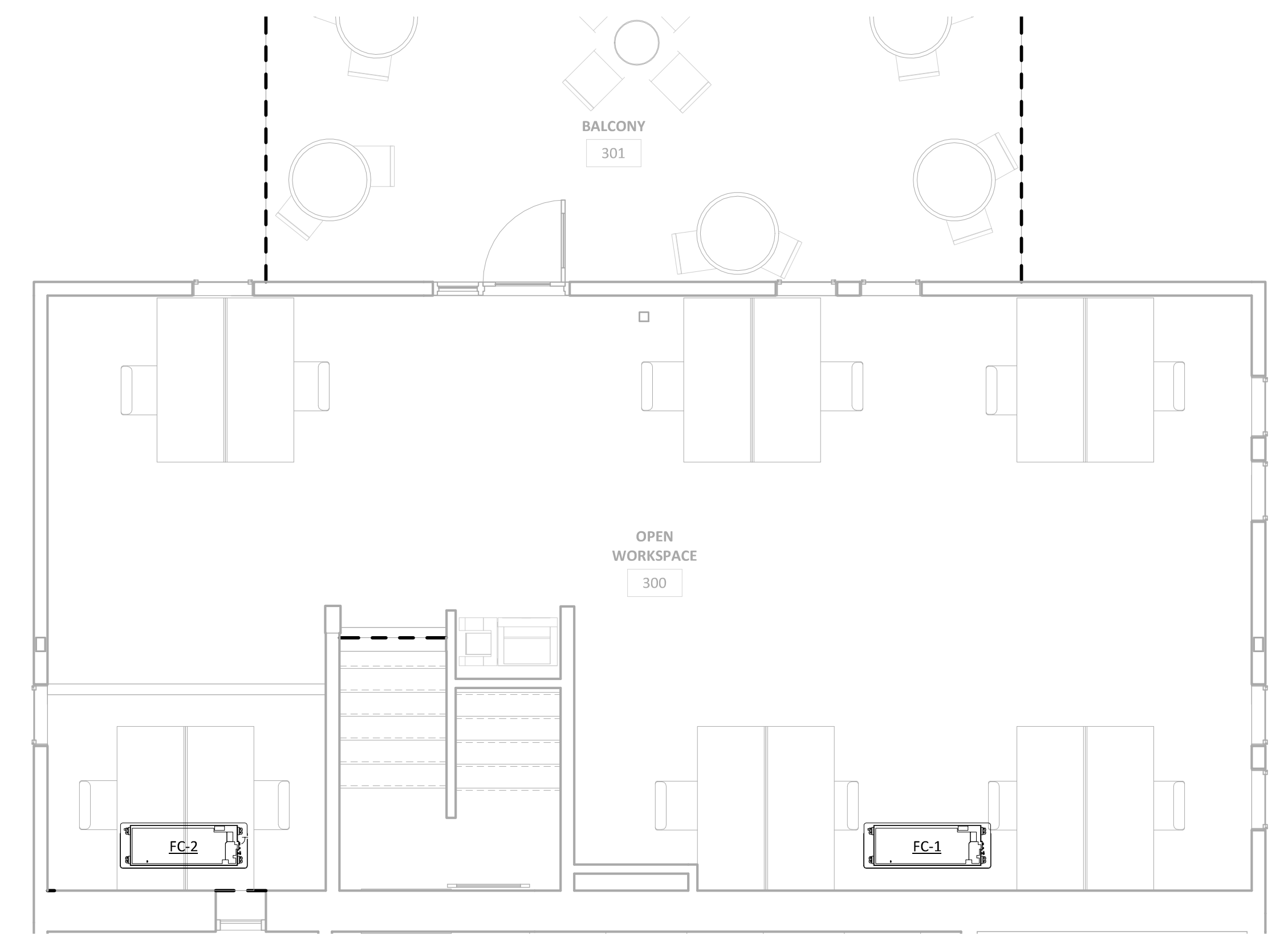
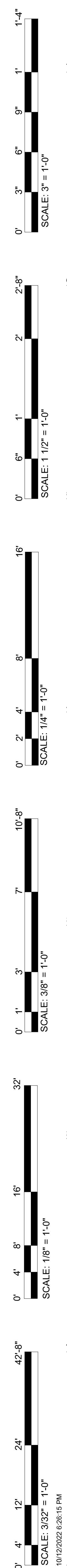
PLUMBING - LEGEND, SCHEDULES, & NOTES

PROJECT:	20220412	
DATE:	10/12/2022	
No.	Description	Date

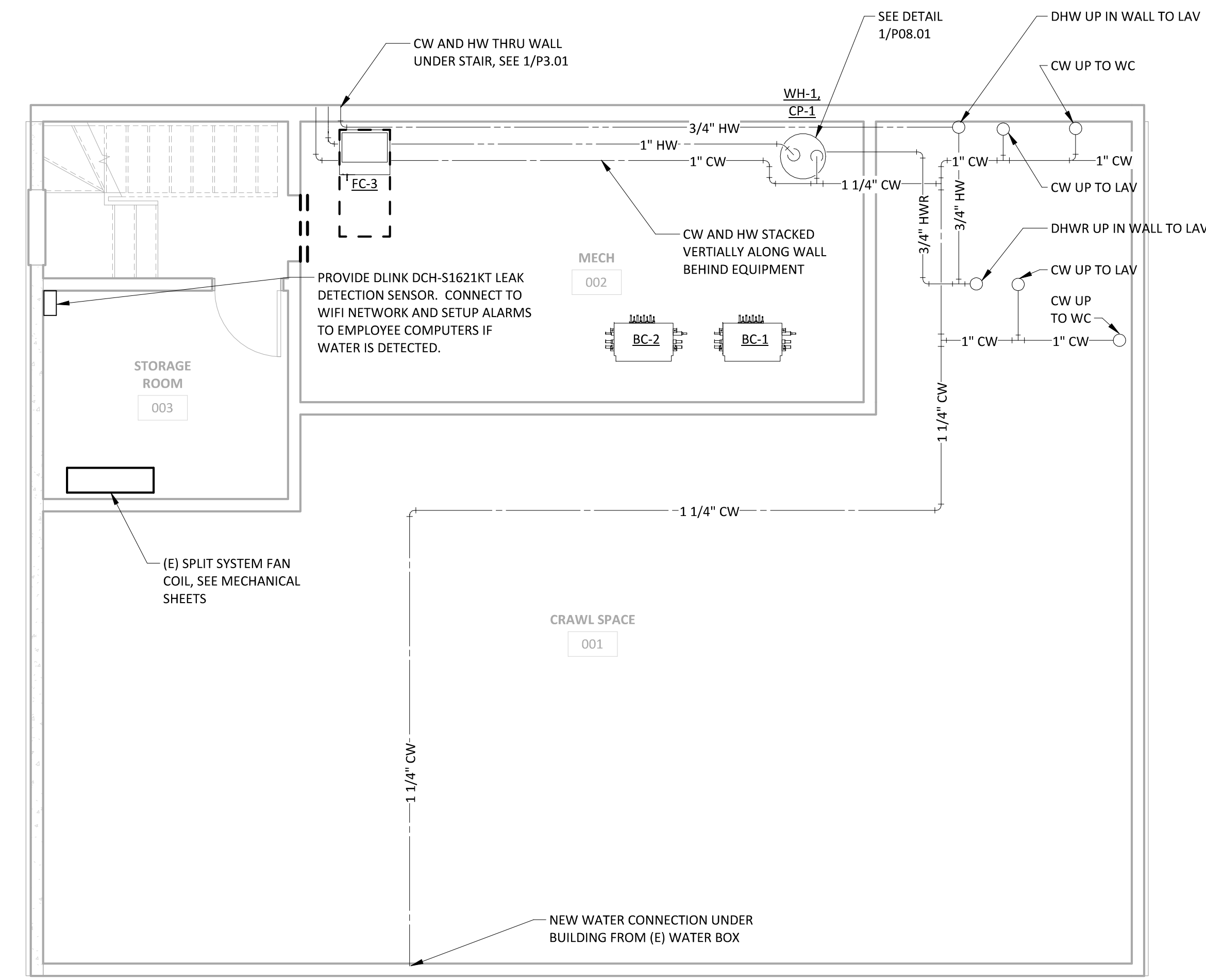
P00.10



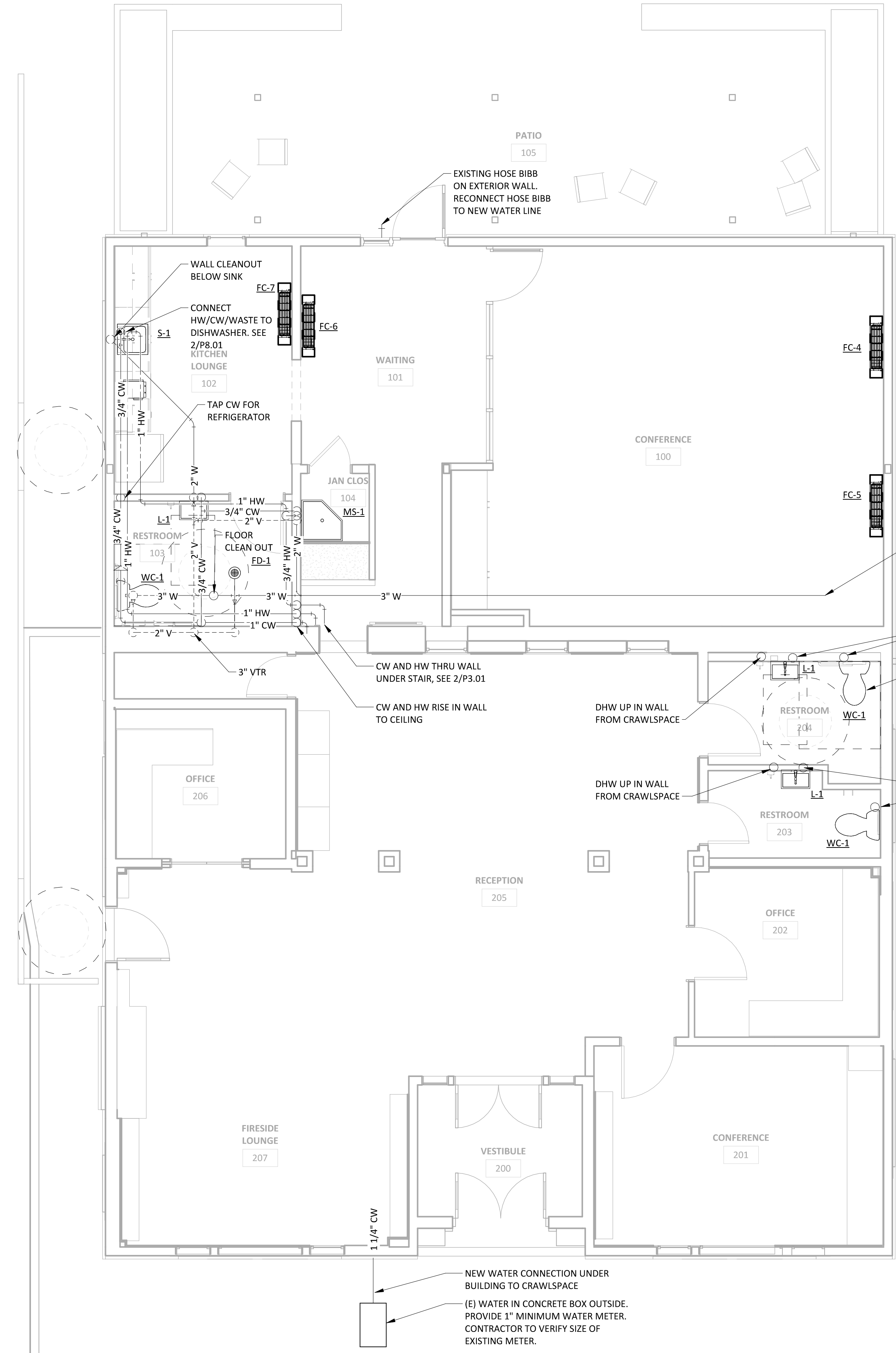
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2 PLUMBING - UPPER FLOOR
 P03.01 1/4" = 1'-0"

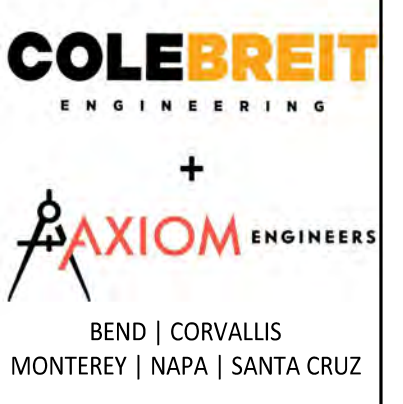


3 PLUMBING - BASEMENT
 P03.02 1/4" = 1'-0"



1 PLUMBING - LOWER FLOOR
 P03.03 1/4" = 1'-0"

- SHEET NOTES:**
- 1 RUN CONDENSATE DIRECT TO THE OUTSIDE OR TO THE NEAREST FIXTURE WITH AN APPROVED AIR GAP FITTING. 3/4" MINIMUM CONDENSATE UP TO 20 TONS. 1" CONDENSATE UP TO 40 TONS.
 - 2 CONTRACTOR TO FIELD LOCATE AND DETERMINE THE VIABILITY OF THE EXISTING WASTE LINE.
 - 3 CONTRACTOR TO VERIFY THE FUNCTION OF EXISTING HOSE BIBB. CONTRACTOR TO REPLACE HOSE BIBB IF DAMAGED OR NOT FUNCTIONING. RECONNECT WATER TO NEW WATER LINE.



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PLUMBING - BASEMENT, LOWER AND UPPER LEVEL FLOOR PLANS

No.	Description	Date

PROJECT: 20220412
 DATE: 10/12/2022

P03.01

