

TWINSTEPS architecture

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MOTHER'S ROOM CONVERSION
TENANT IMPROVEMENT
325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REMARKS

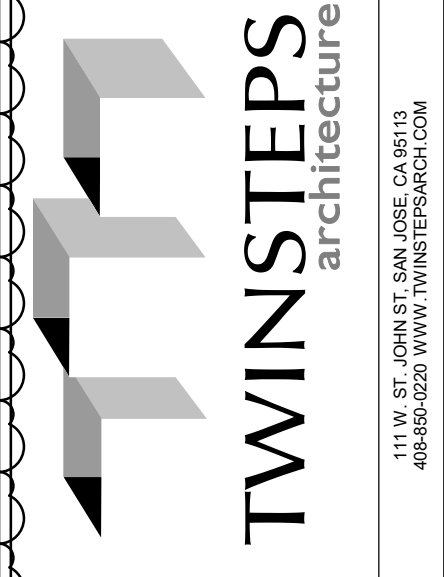
REV	DATE	DESCRIPTION
1	10/07/2019	PERMIT SET

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO.: SJC-19-048

GOOGLE, INC.
1212 BORDEAUX DRIVE
SUNNYVALE, CA 94089

ACCESSIBILITY DETAILS

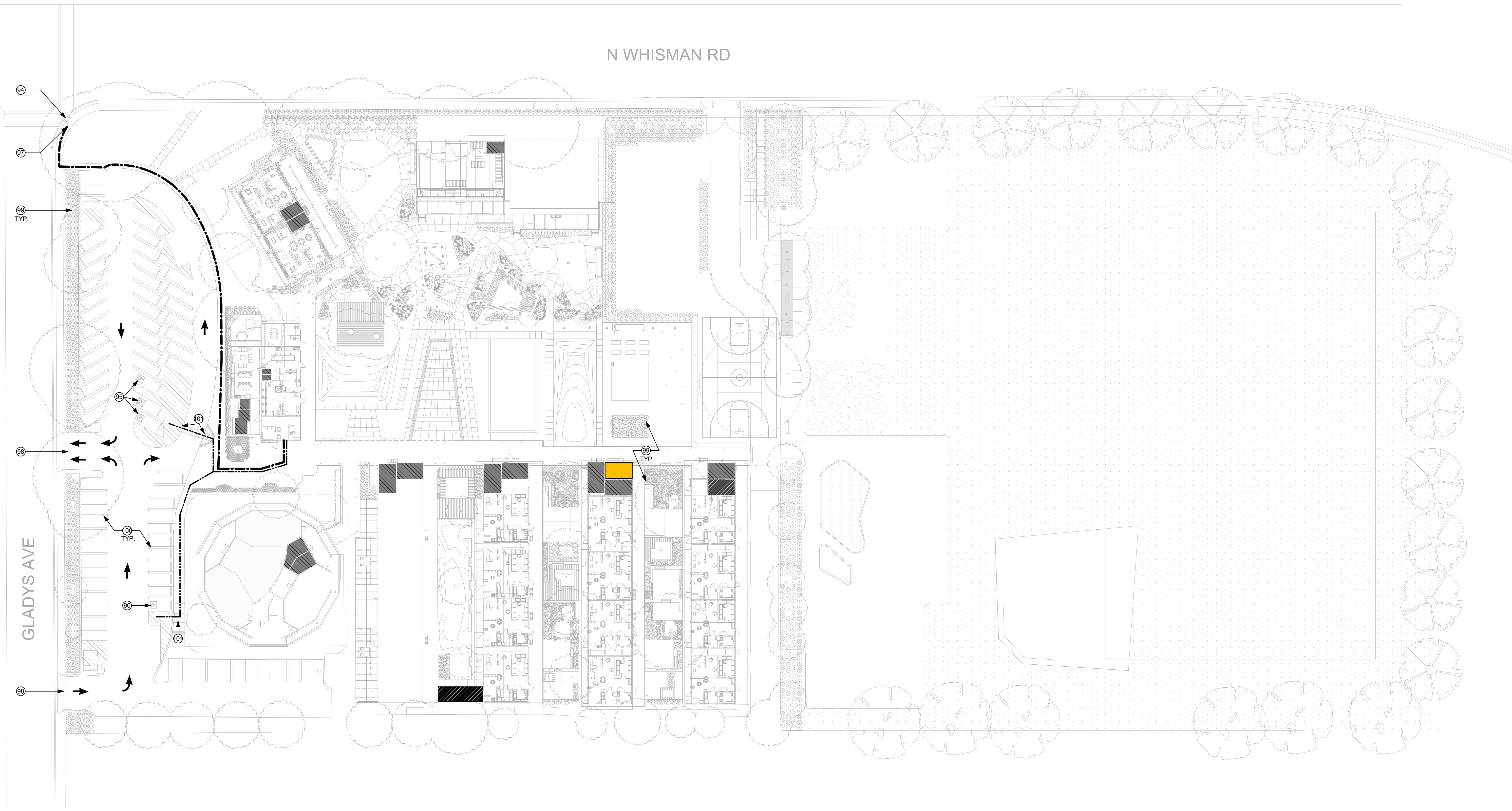
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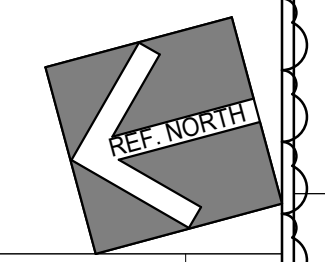
TWINSTEPS architecture
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**MOTHER'S ROOM
 CONVERSION**
 TENANT IMPROVEMENT
 325 GLADYS AVENUE
 MOUNTAIN VIEW, CA 94043

N WHISMAN RD



**-FOR REFERENCE ONLY-
 -EXISTING SITE TO REMAIN AS IS-**



DATE	09/17/19
SCALE	1/32" = 1'-0"
SITE PLAN	1
SITE LEGEND	
	EXISTING JANITORIAL STORAGE CONVERSION TO NEW MOTHERS ROOM
	EXISTING GROUNDSKEEPING STORAGE TO NEW JANITORIAL STORAGE
	EXISTING RESTROOMS ON SITE
	EXISTING RESTROOM SERVING MOTHERS ROOM
	(E) CONTINUOUSLY ACCESSIBLE PATH FROM ACCESSIBLE PARKING SPACES TO PRIMARY BUILDING ENTRANCE
	(E) ACCESSIBLE PATH OF TRAVEL TO PUBLIC WAY
KEYNOTES	
94	(E) CURB RAMP, SEE DETAIL 5/A0.5 FOR ADDITIONAL NOTES
95	(E) ACCESSIBLE PARKING STALL
96	(E) VAN ACCESSIBLE PARKING STALL
97	(E) ACCESSIBLE PUBLIC WAY
98	(E) DRIVEWAY
99	(E) LANDSCAPING
100	(E) PARKING STALL
101	(E) DETECTABLE WARNING TRUNCATED DOMES, WHERE OCCURS WHEN APPLICABLE, SEE DETAIL 8/A0.4 FOR ADDITIONAL NOTES
GENERAL NOTES	
1. SHEET NOTES REFER TO (E) CONDITIONS, U.N.O.	
2. PATCH, REPAIR, PAINT ALL AREAS DAMAGED DUE TO CONSTRUCTION. MATCH (E) OR APPROVED EQUAL.	

REV	DATE	REVISIONS PER PLAN CHECK COMMENTS
1	10/24/2020	REVISIONS PER PLAN CHECK COMMENTS

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EXISTING SITE PLAN

DATE: 09/17/19
 P.M.: M.M.
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A1.0

○ KEYNOTES (DEMOLITION)

- 3 (E) DOOR TO BE REMOVED
- 10 (E) MIRROR TO BE REMOVED
- 11 (E) HAND DRYER TO BE REMOVED
- 12 (E) PAPER TOWEL DISPENSER TO BE REMOVED
- 13 (E) LIGHTING FIXTURES TO BE REMOVED
- 19 INFILL (E) SUPPLY AIR LOUVER ABOVE DOOR

○ KEYNOTES (PROPOSED)

- 33 (N) SOFFIT TO DROP AT MIDDLE OF WINDOW
- 36 (E) FIRE ALARM DEVICE TO REMAIN
- 45 APPLY 3M ILLUMINA DECORATIVE FILM TO (E) CLERESTORY GLASS
- 48 (N) ROPPE VINYL BASE 123 "CHARCOAL"
- 50 OPEN BELOW COUNTERTOP, PLANK FLOORING BELOW MILLWORK
- 57 (N) MODULICIOUS #3 STORAGE, O.F.O.I.
- 58 (N) FURNITURE, O.F.O.I.
- 61 (N) MAGNETIC BULLETIN BOARD, O.F.O.I.
- 62 (N) WALL MOUNTED BRANCH COAT RACK, O.F.O.I.
- 64 (N) PAPER TOWEL DISPENSER
- 65 (N) SOAP DISPENSER
- 66 (N) HAND SANITIZER
- 73 DEDICATED CIRCUIT 1

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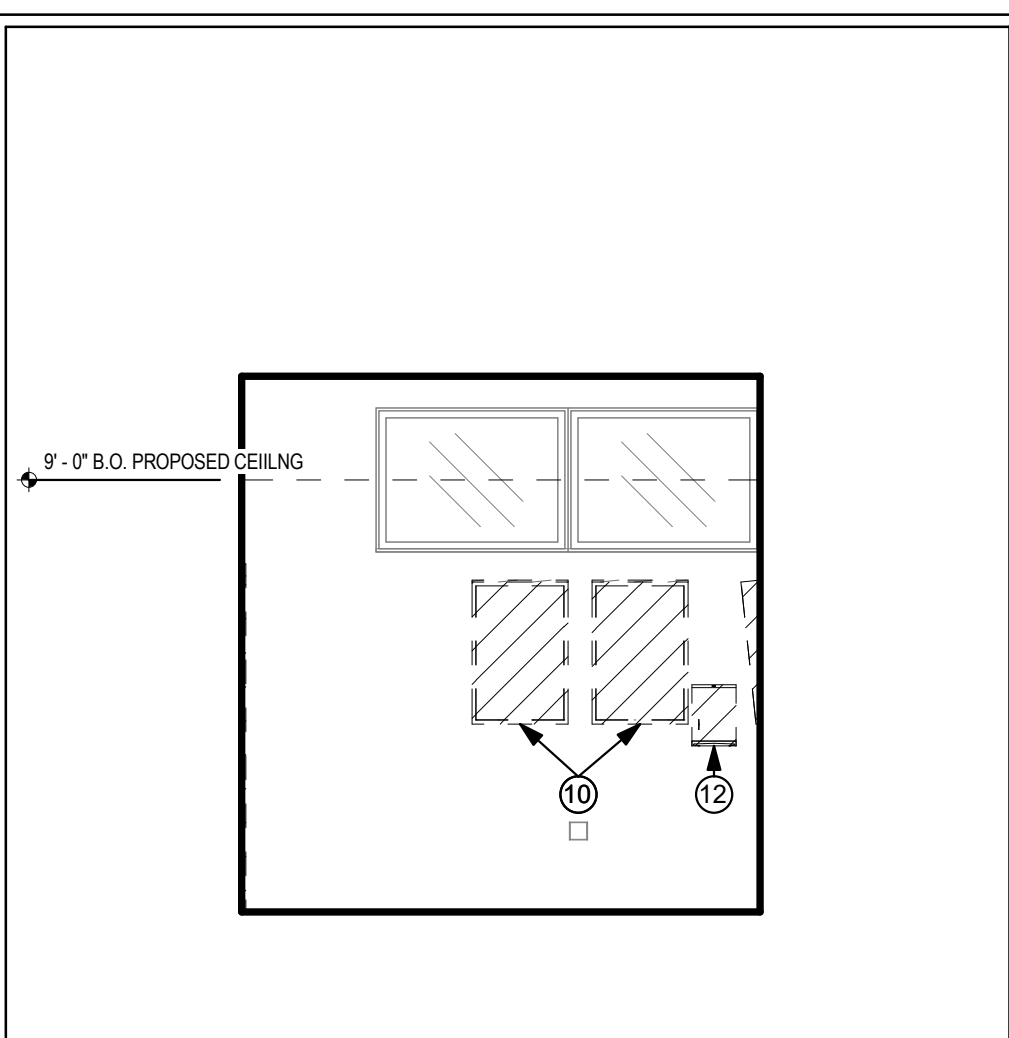
REMARKS

PERMIT SET

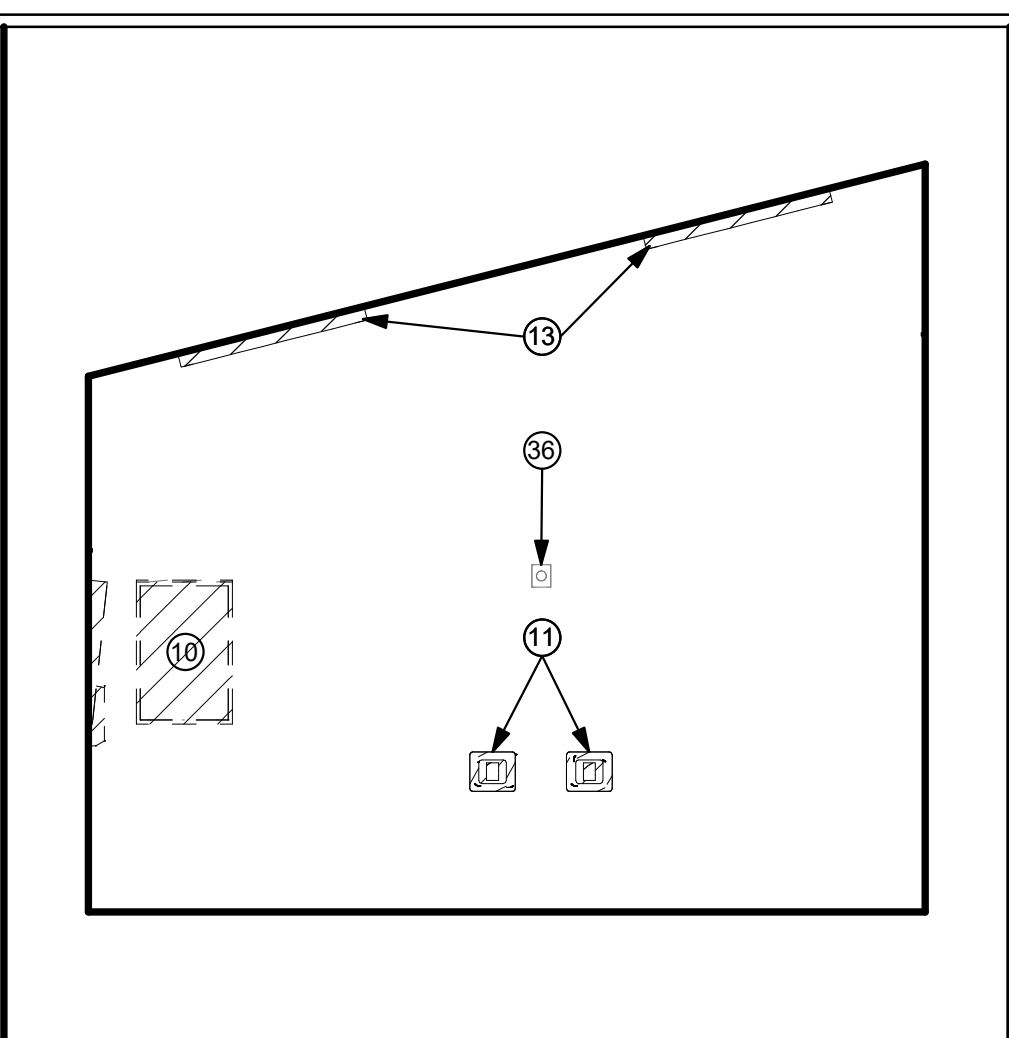
DATE 10/07/2019

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**ENLARGED ELEVATIONS,
 DEMOLITION & PROPOSED**

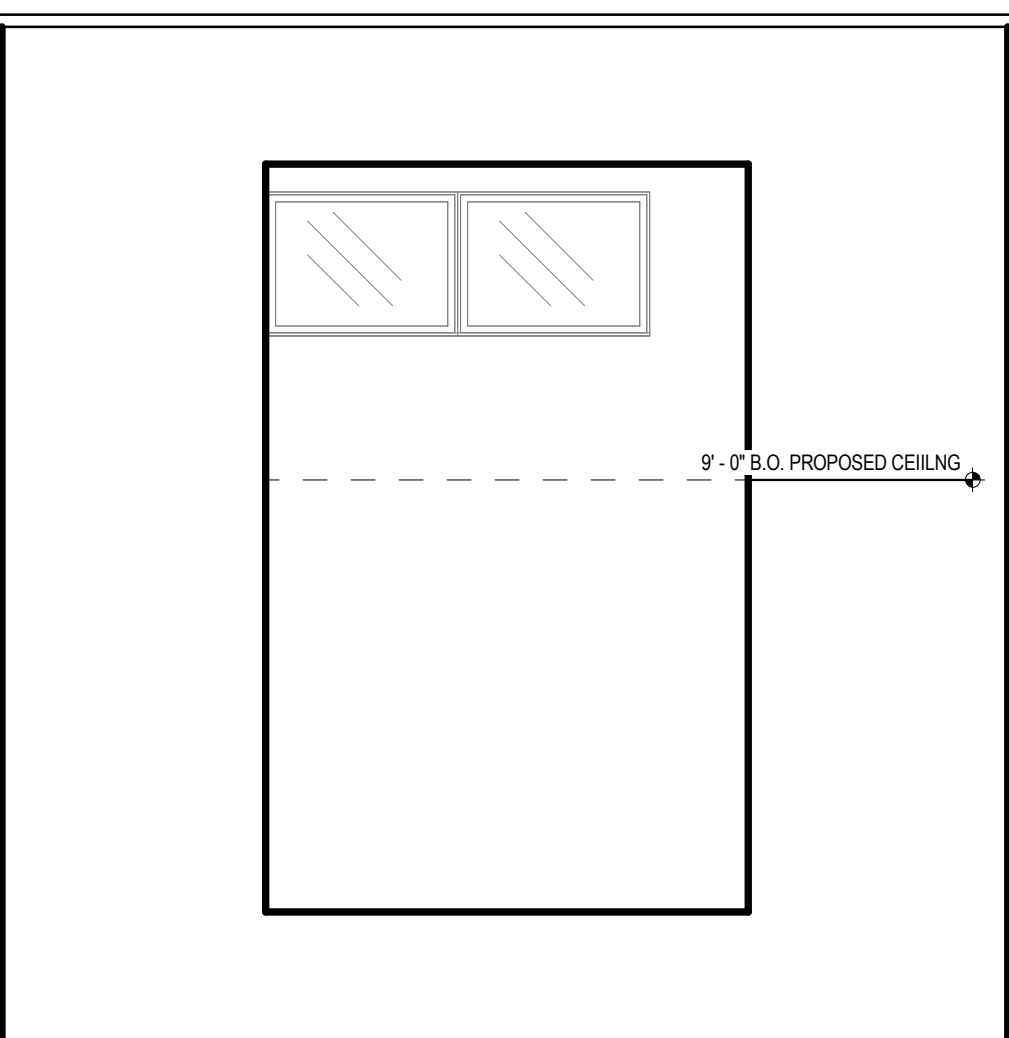
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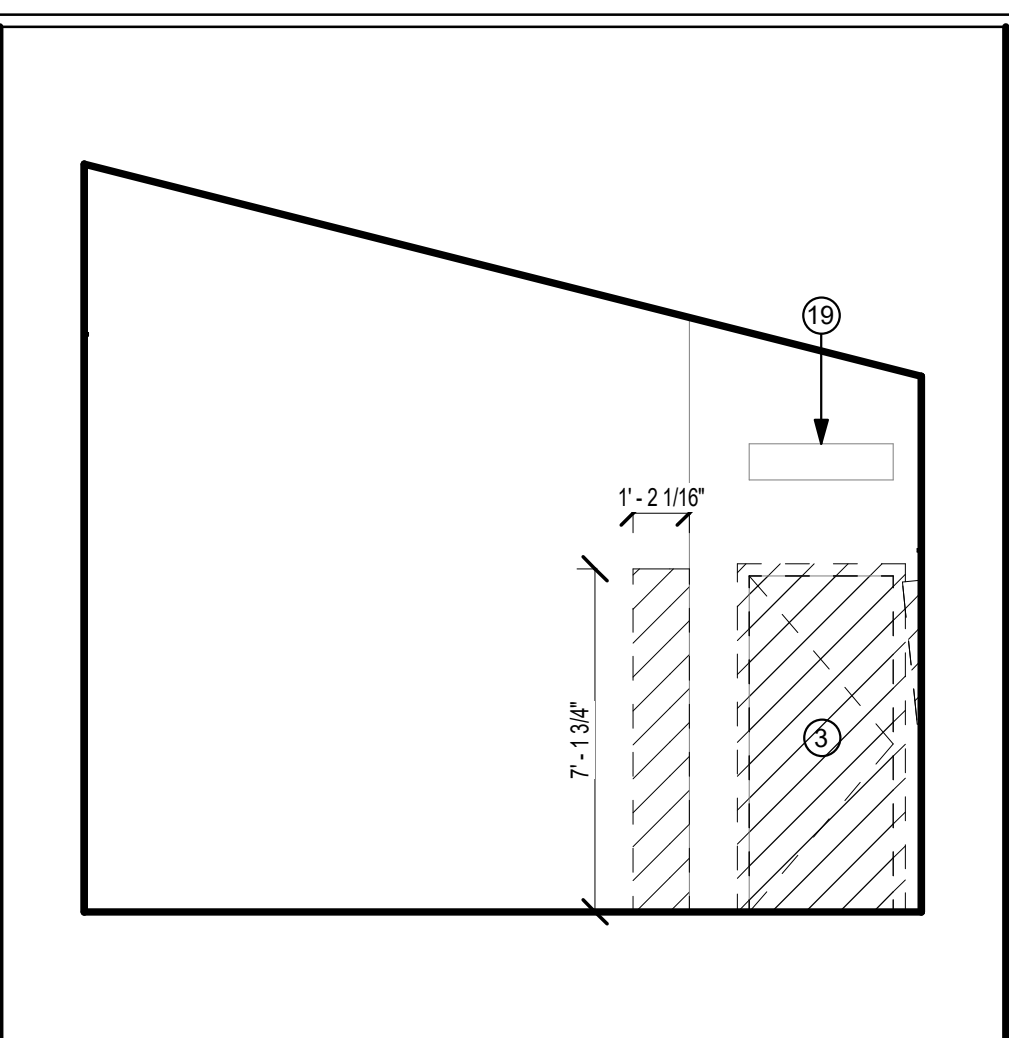
(E) ELEVATION 1 SCALE 1/4" = 1'-0" 1



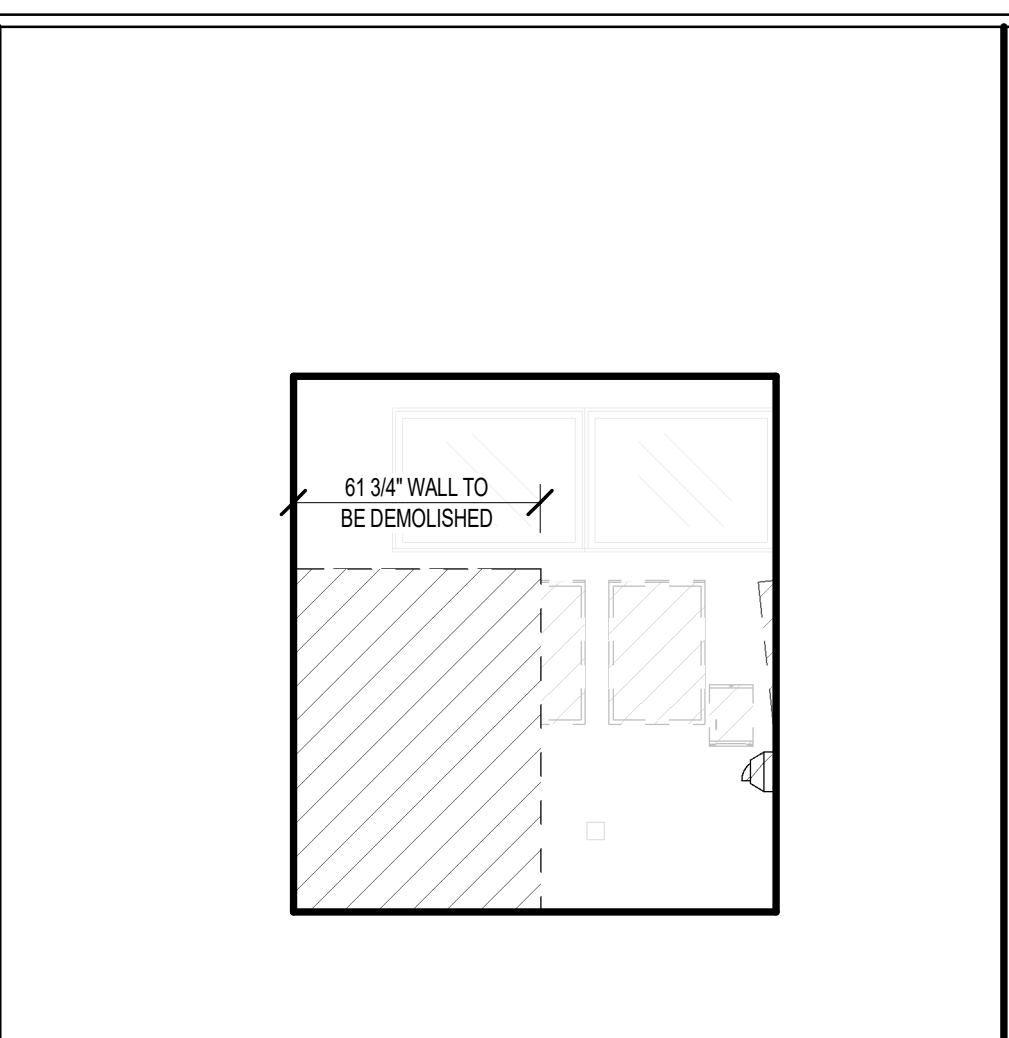
(E) ELEVATION 2 SCALE 1/4" = 1'-0" 2



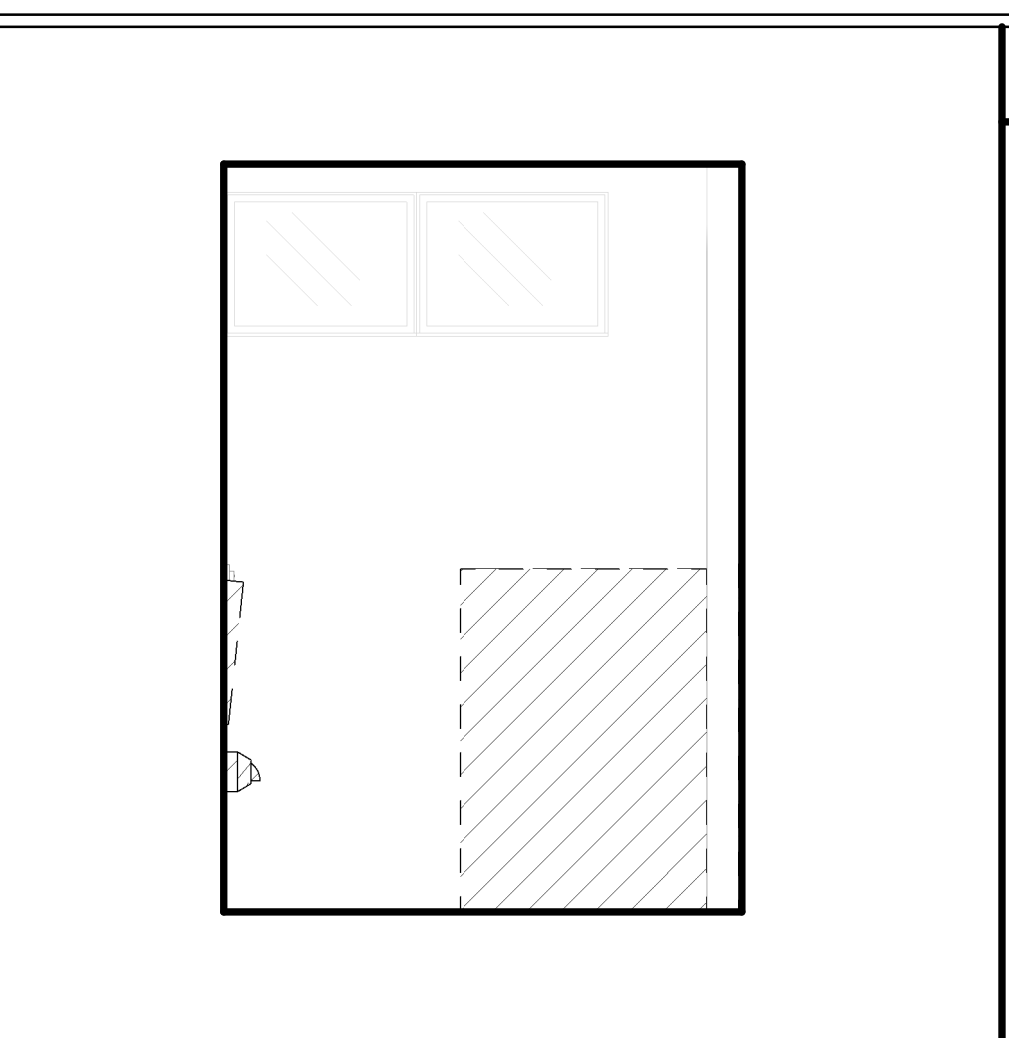
(E) ELEVATION 3 SCALE 1/4" = 1'-0" 3



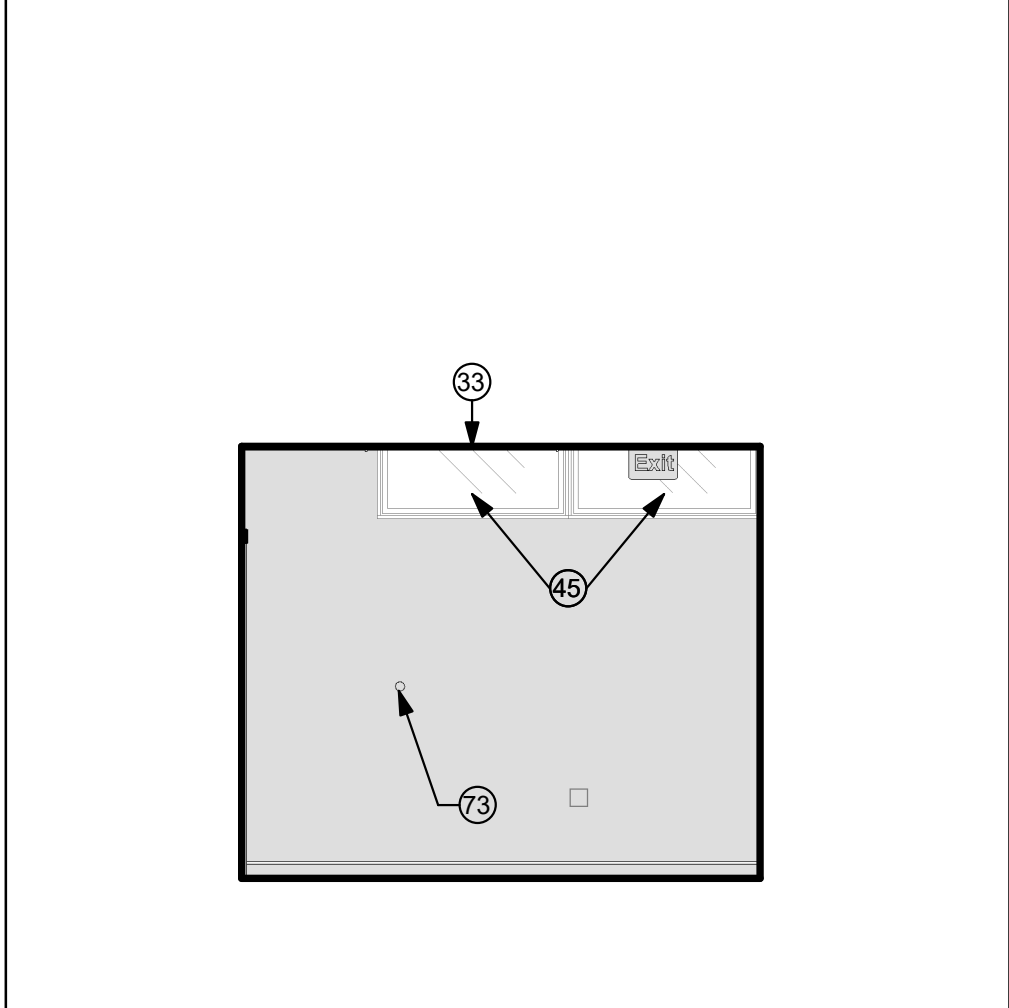
(E) ELEVATION 4 SCALE 1/4" = 1'-0" 4



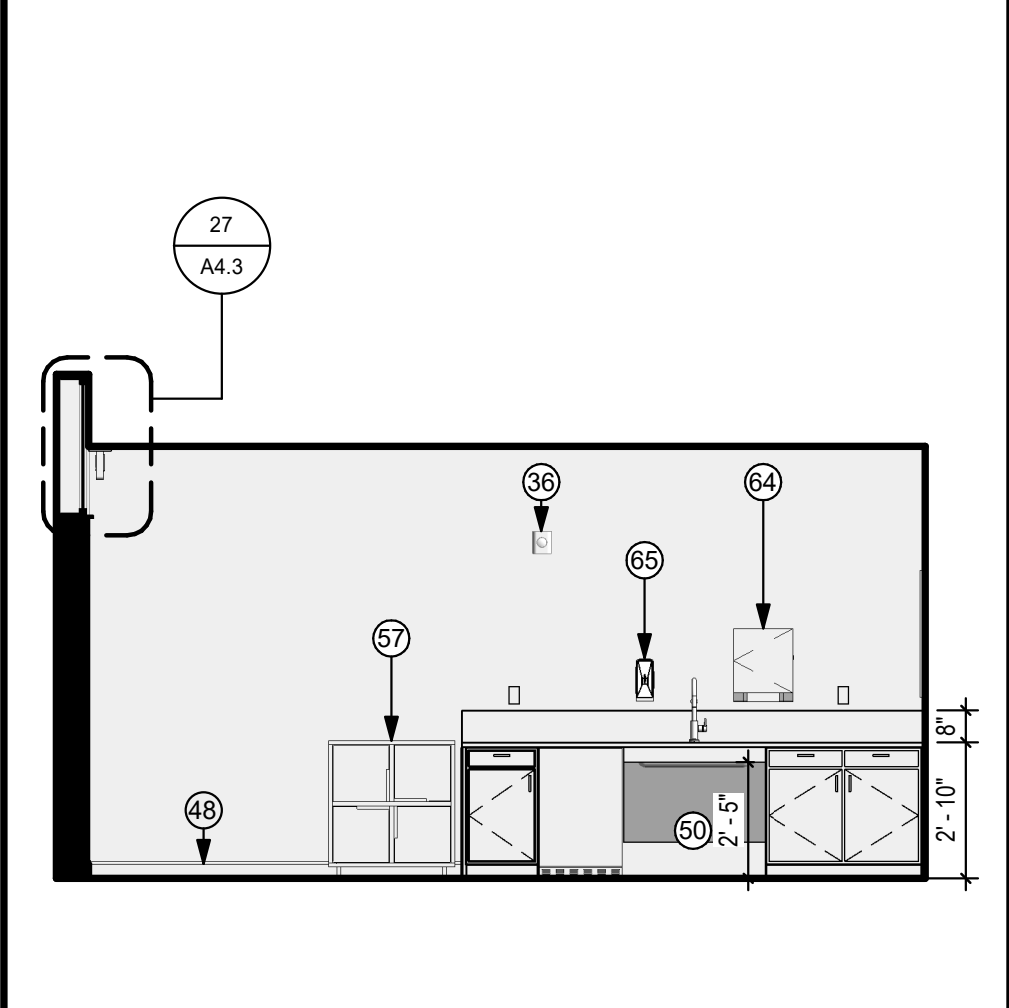
(E) ELEVATION 5 SCALE 1/4" = 1'-0" 5



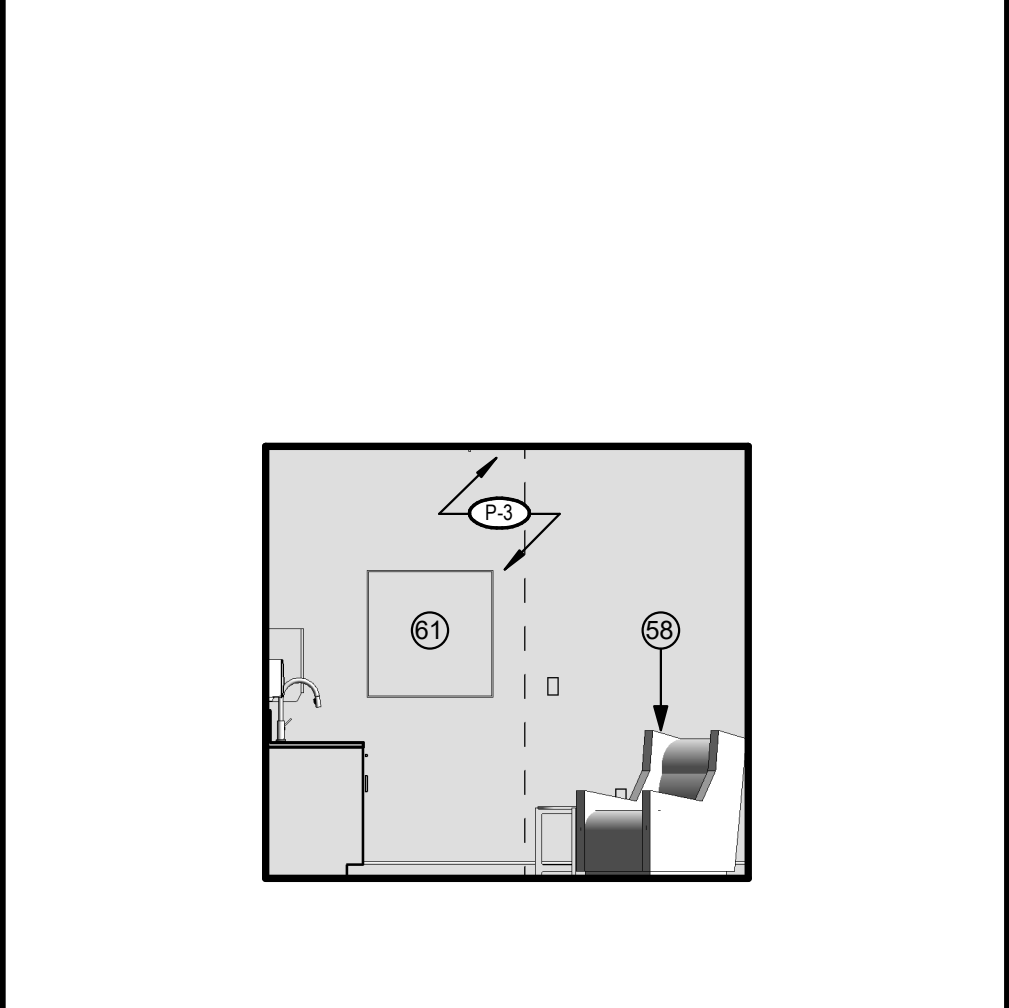
(E) ELEVATION 6 SCALE 1/4" = 1'-0" 6



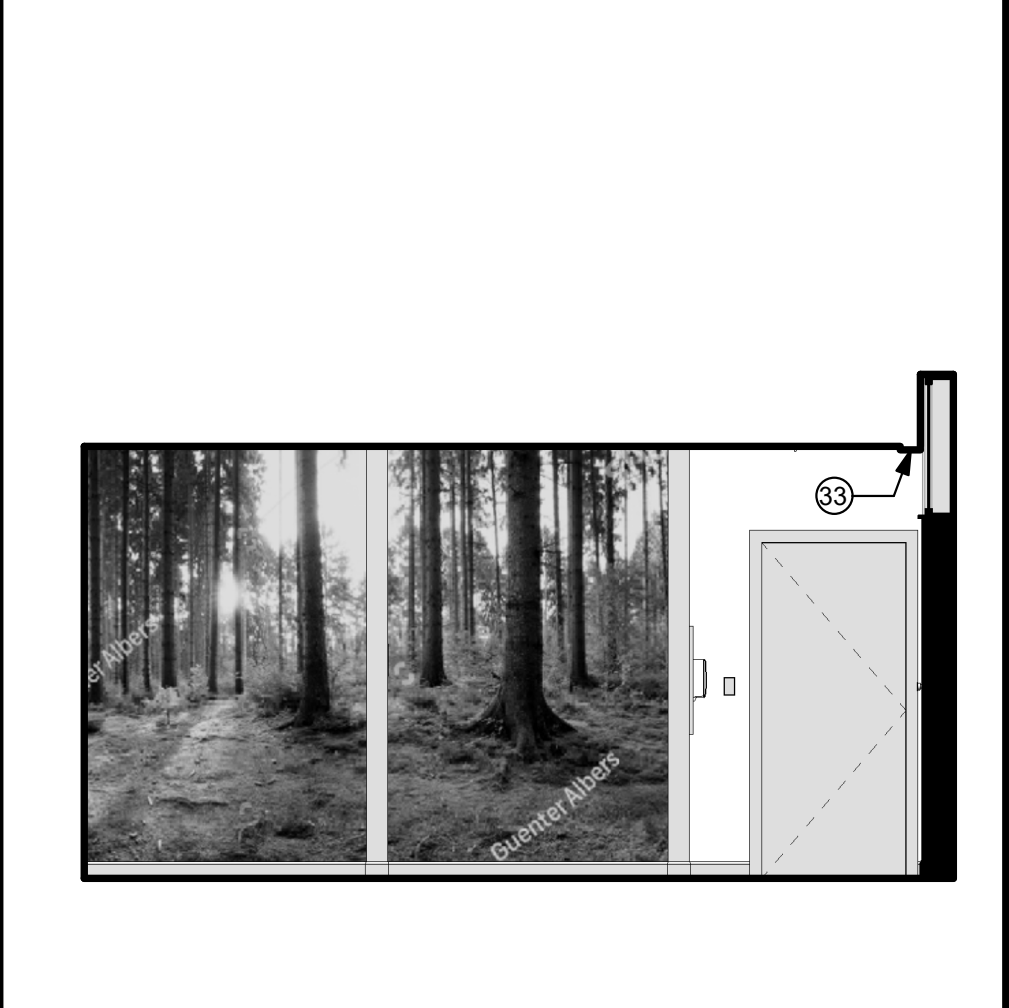
(N) ELEVATION 1 SCALE 1/4" = 1'-0" 7



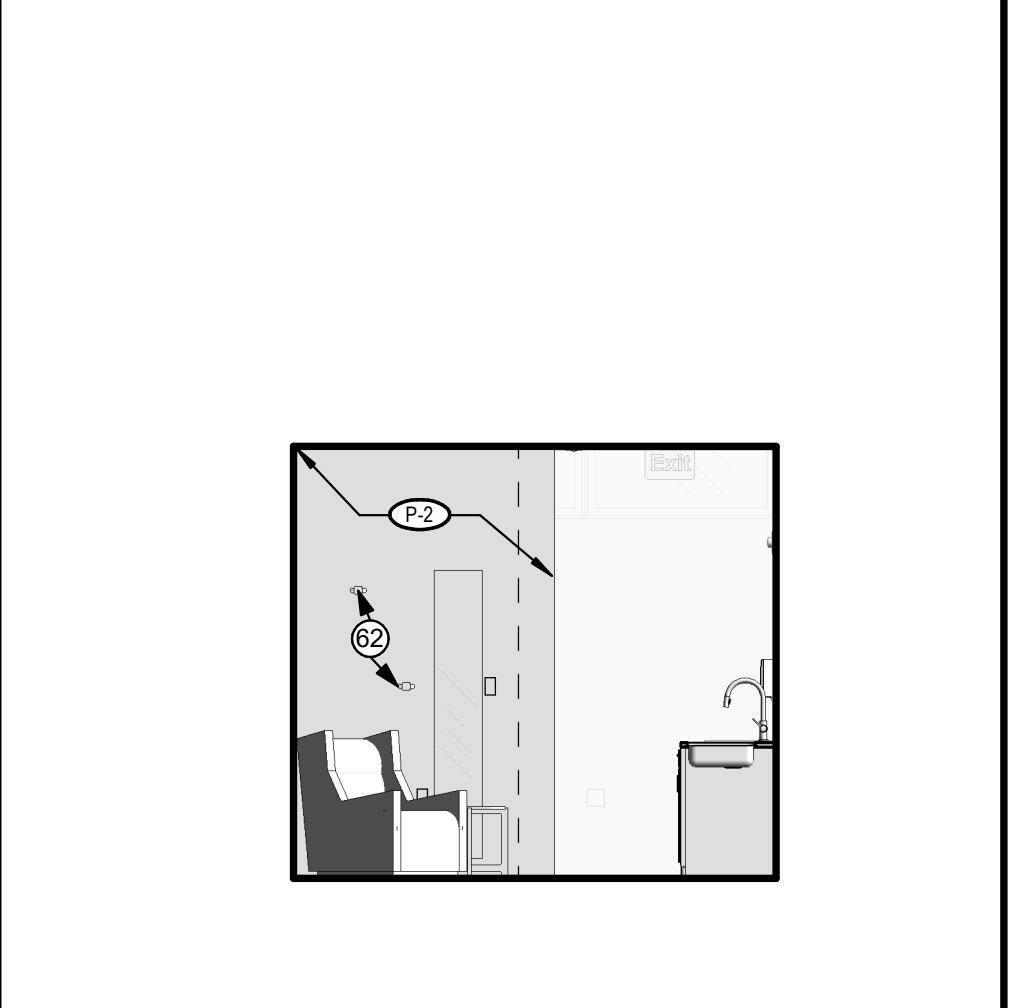
(N) ELEVATION 2 SCALE 1/4" = 1'-0" 8



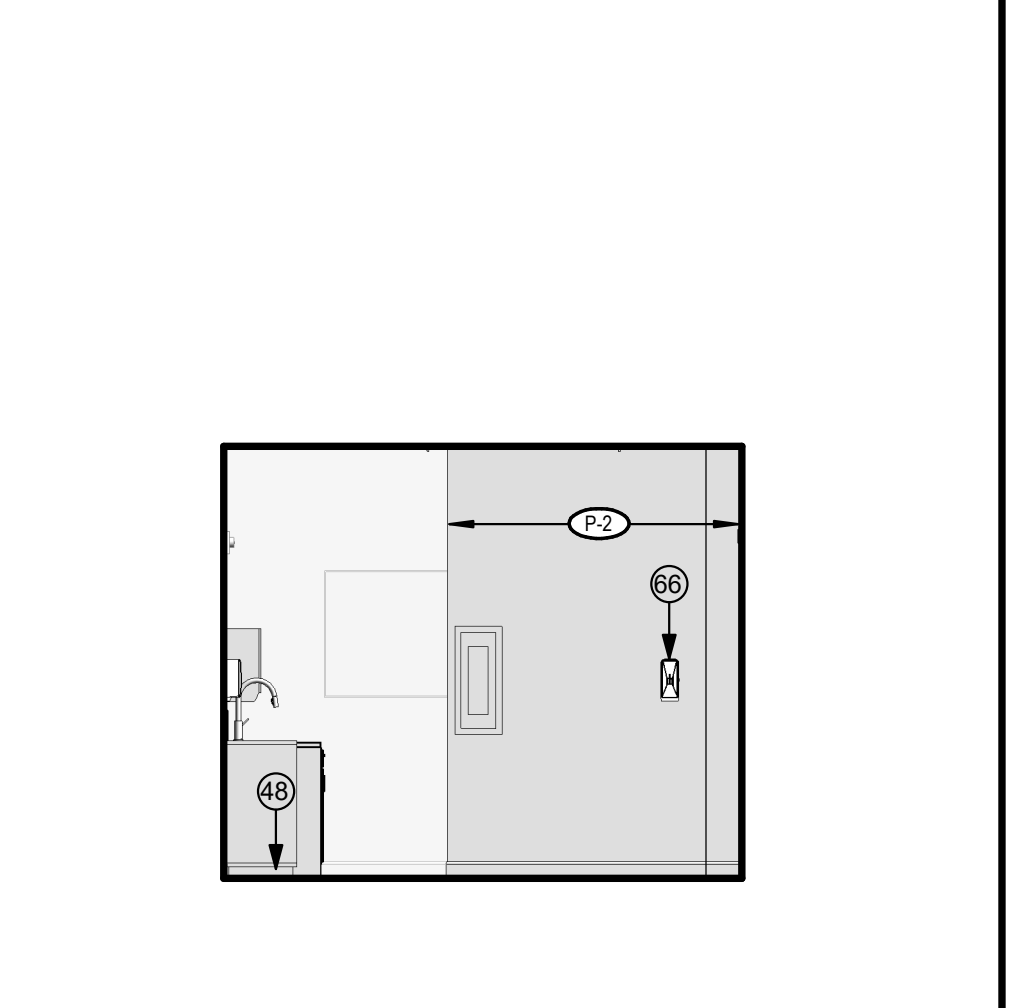
(N) ELEVATION 3 SCALE 1/4" = 1'-0" 9



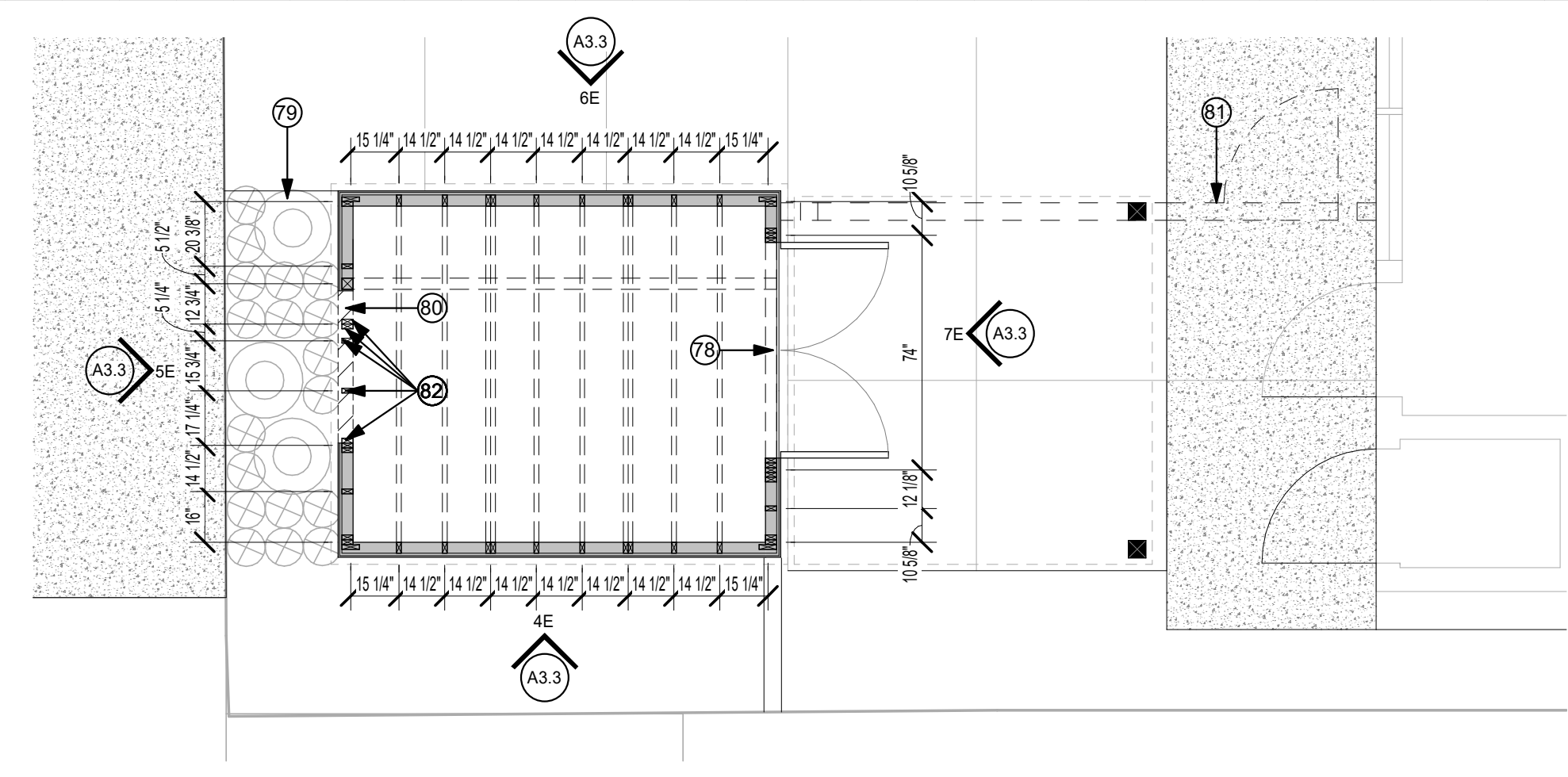
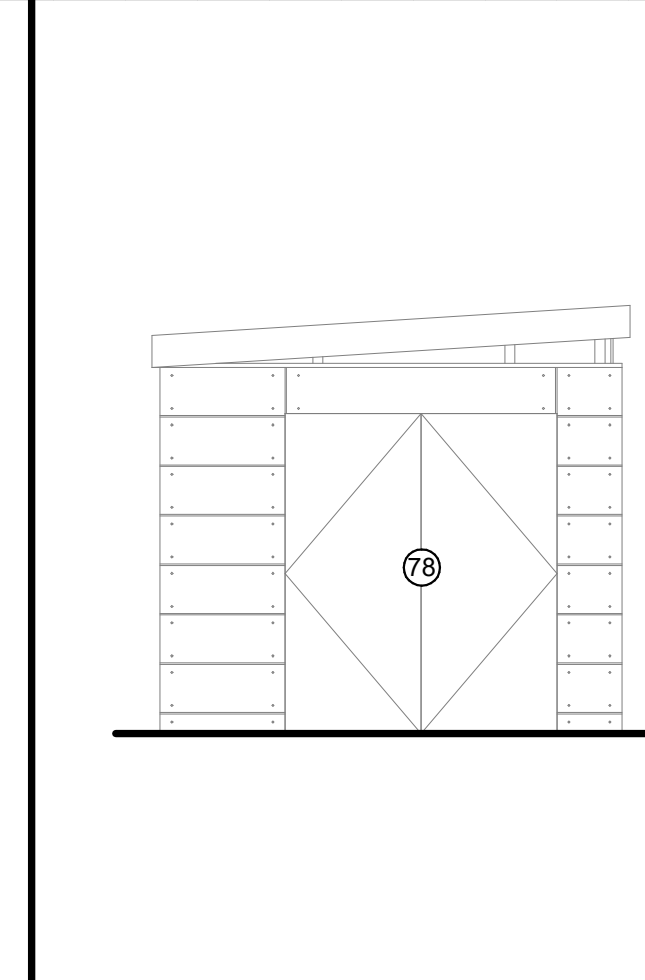
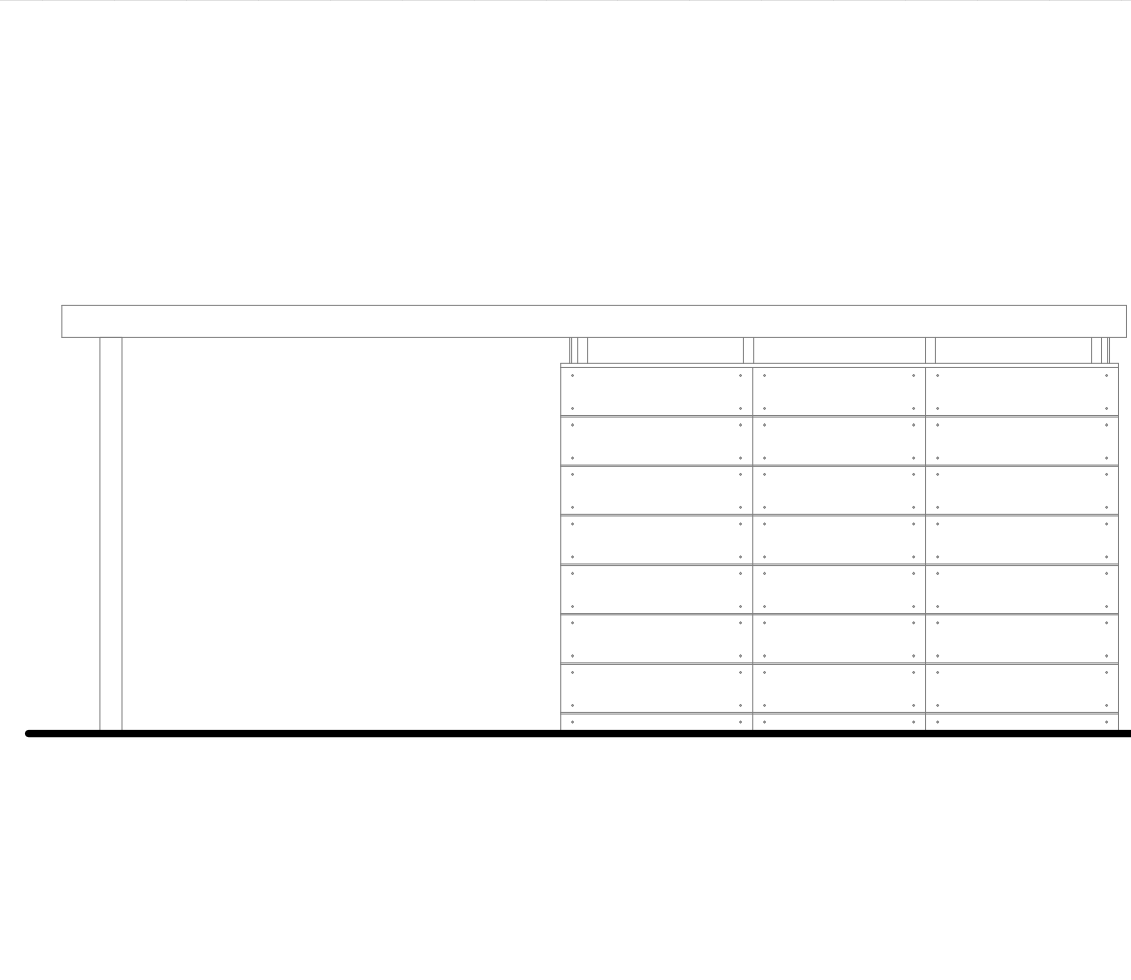
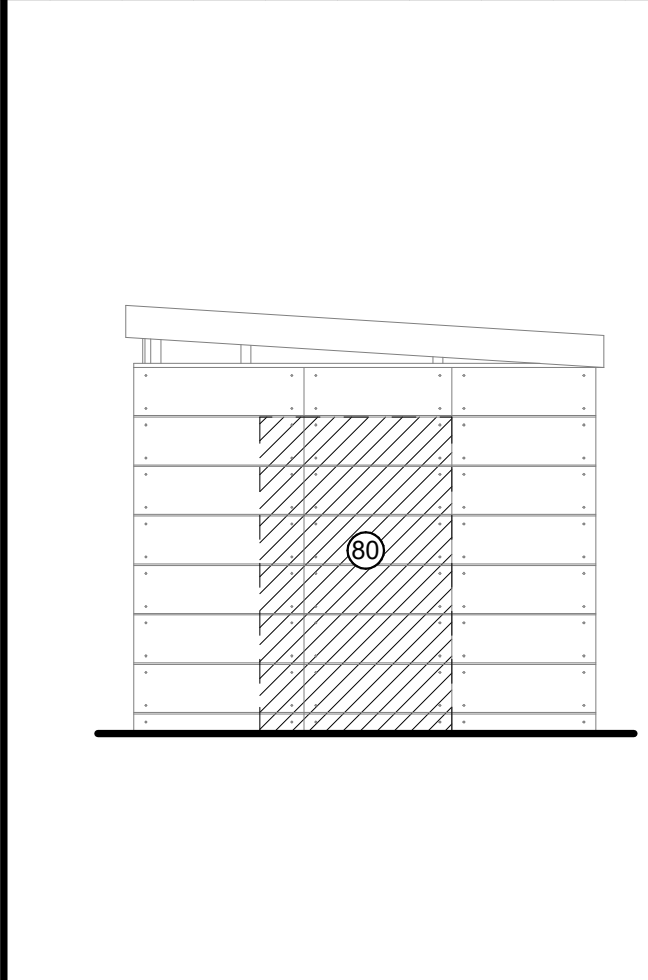
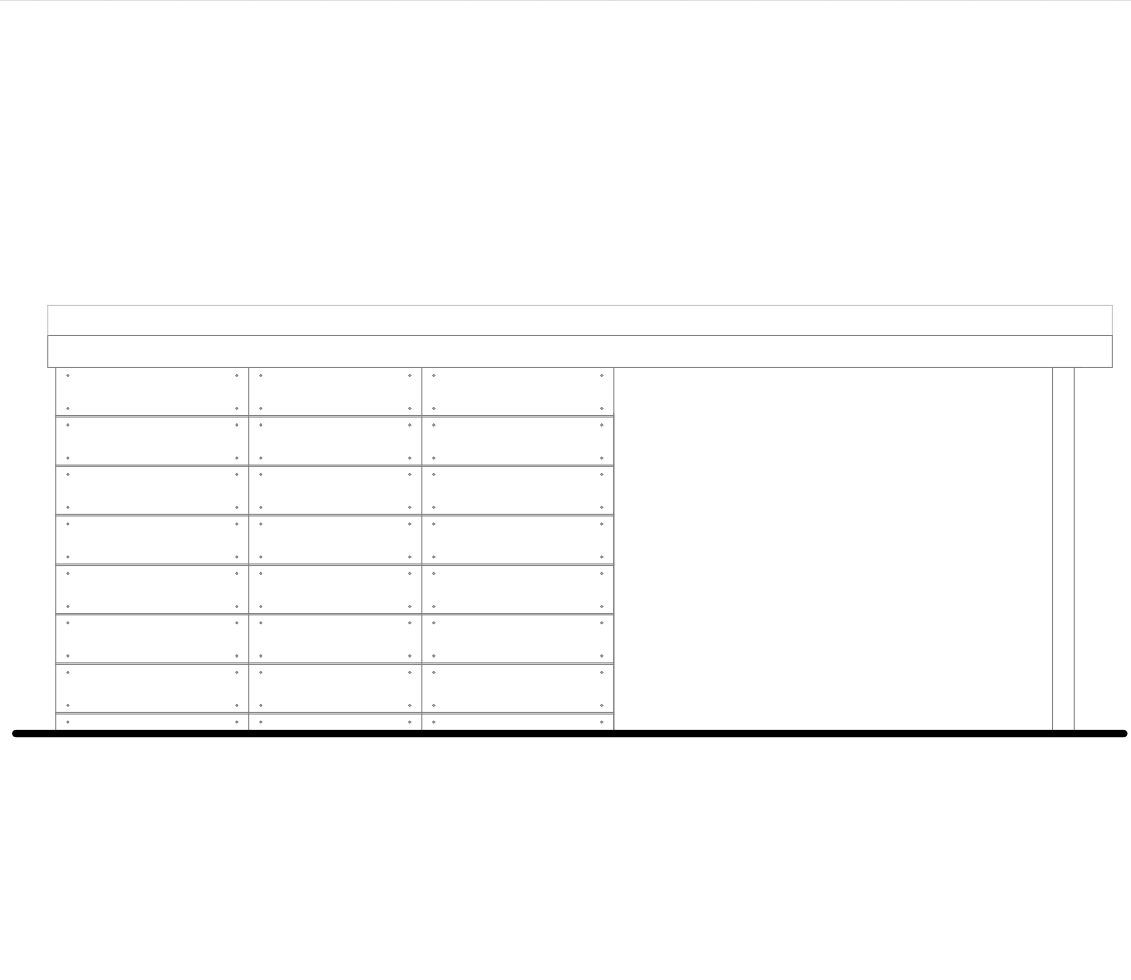
(N) ELEVATION 4 SCALE 1/4" = 1'-0" 10



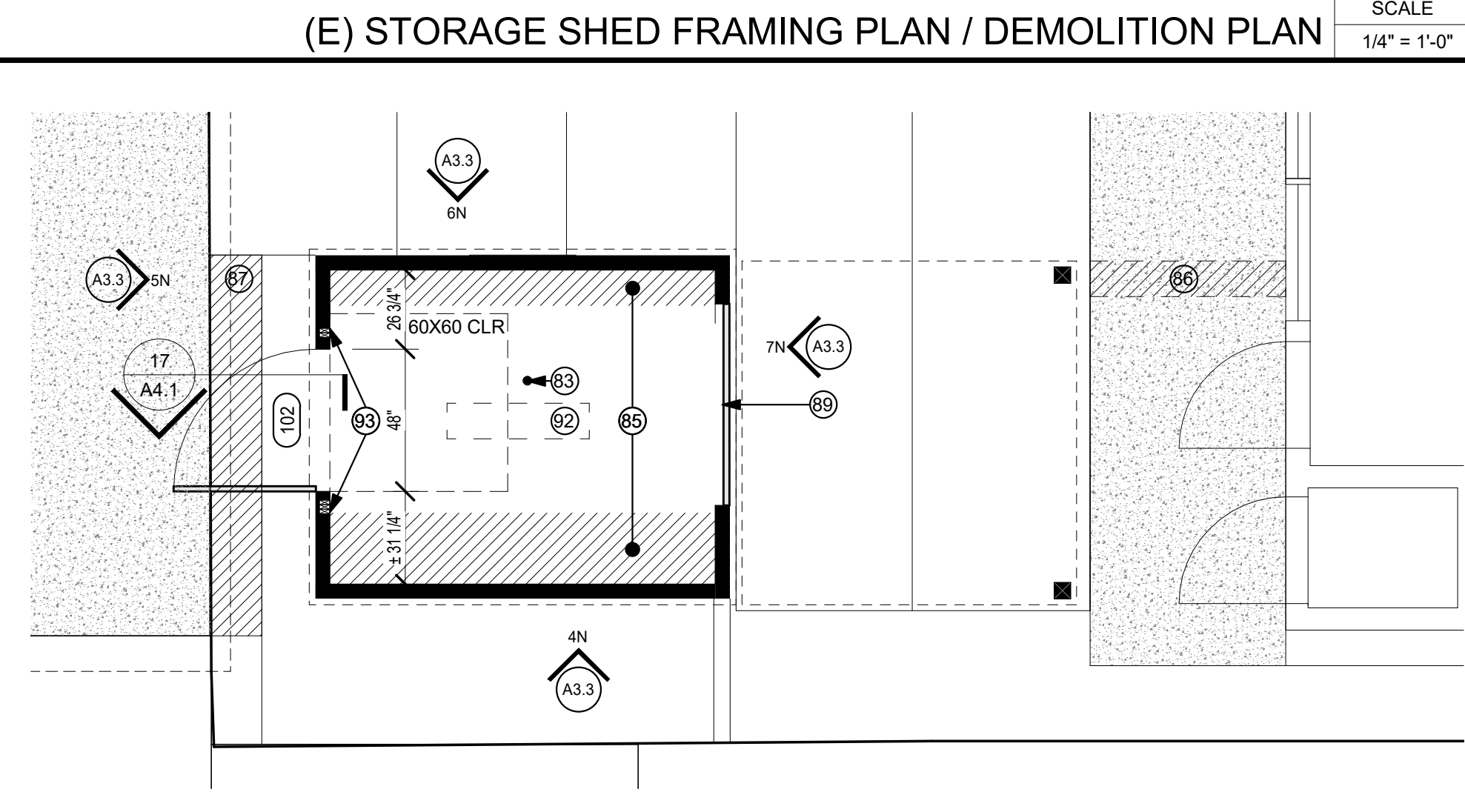
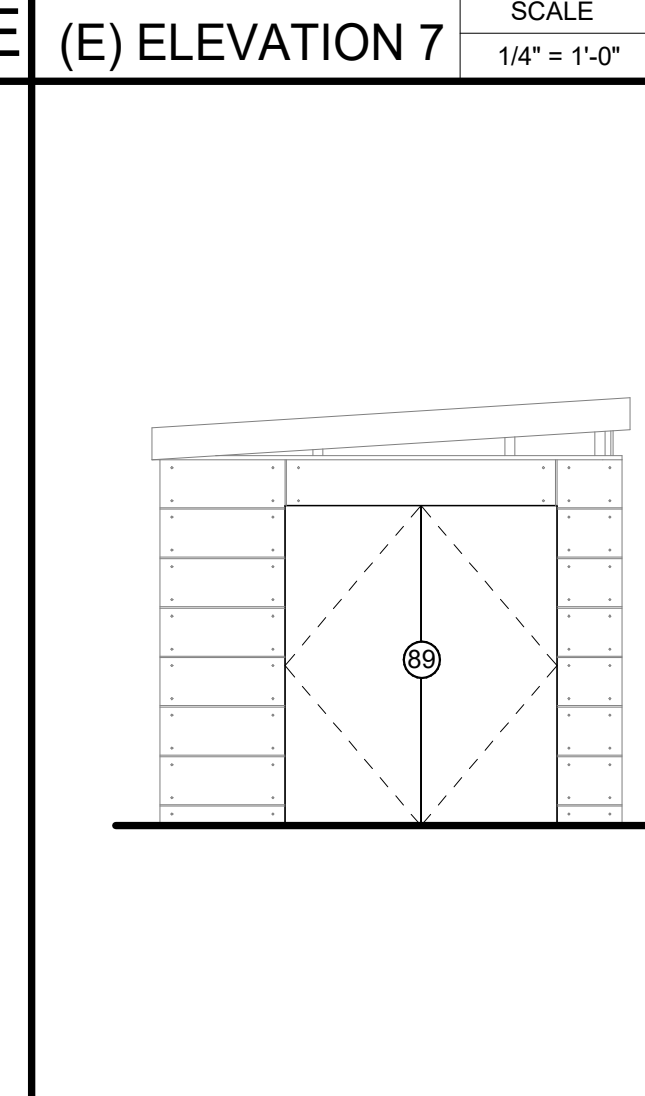
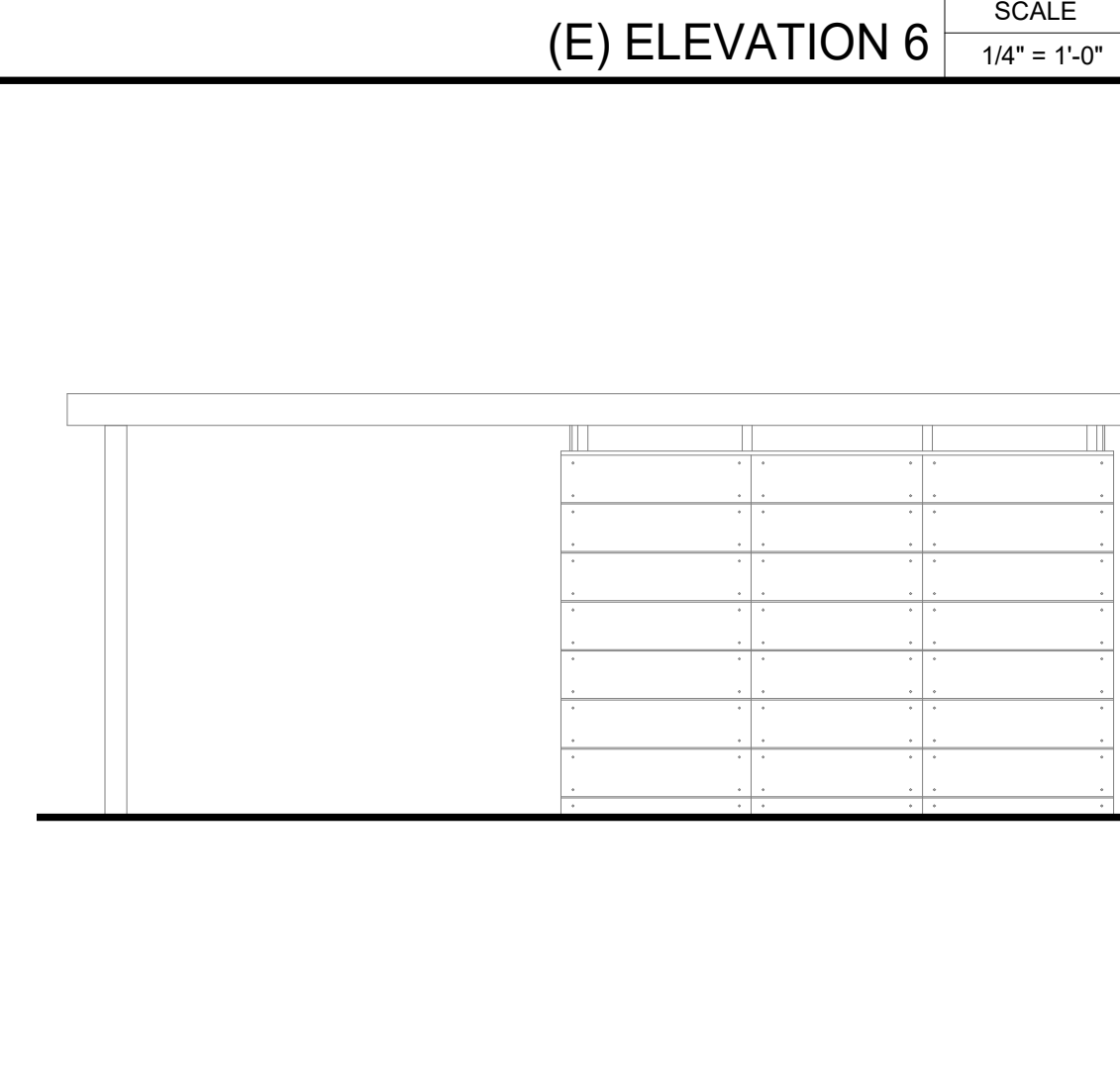
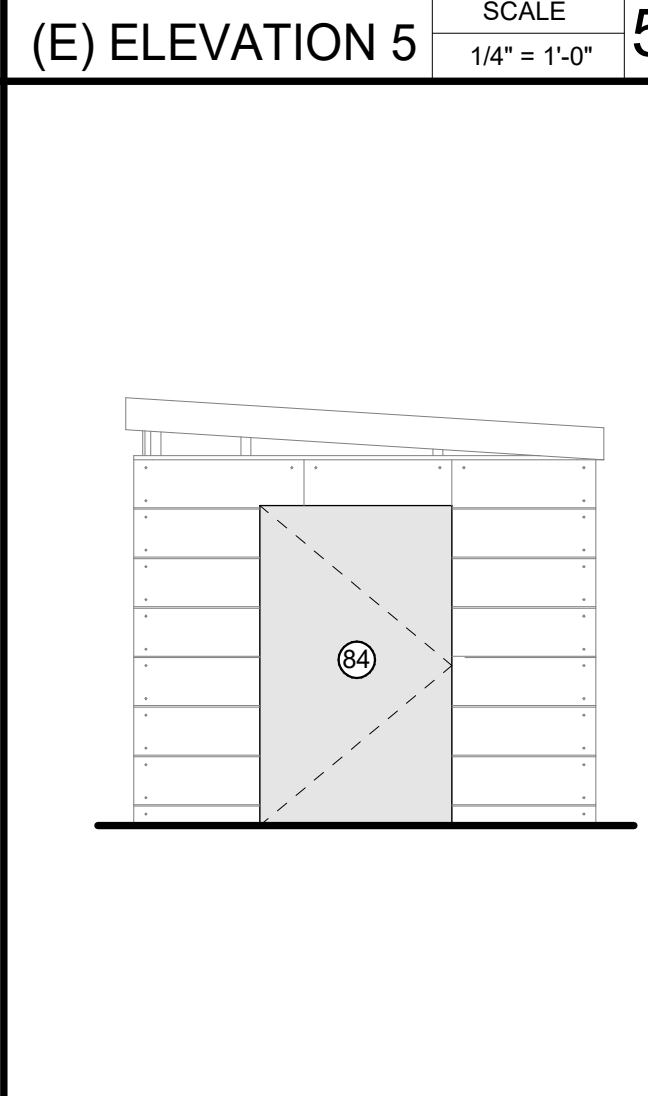
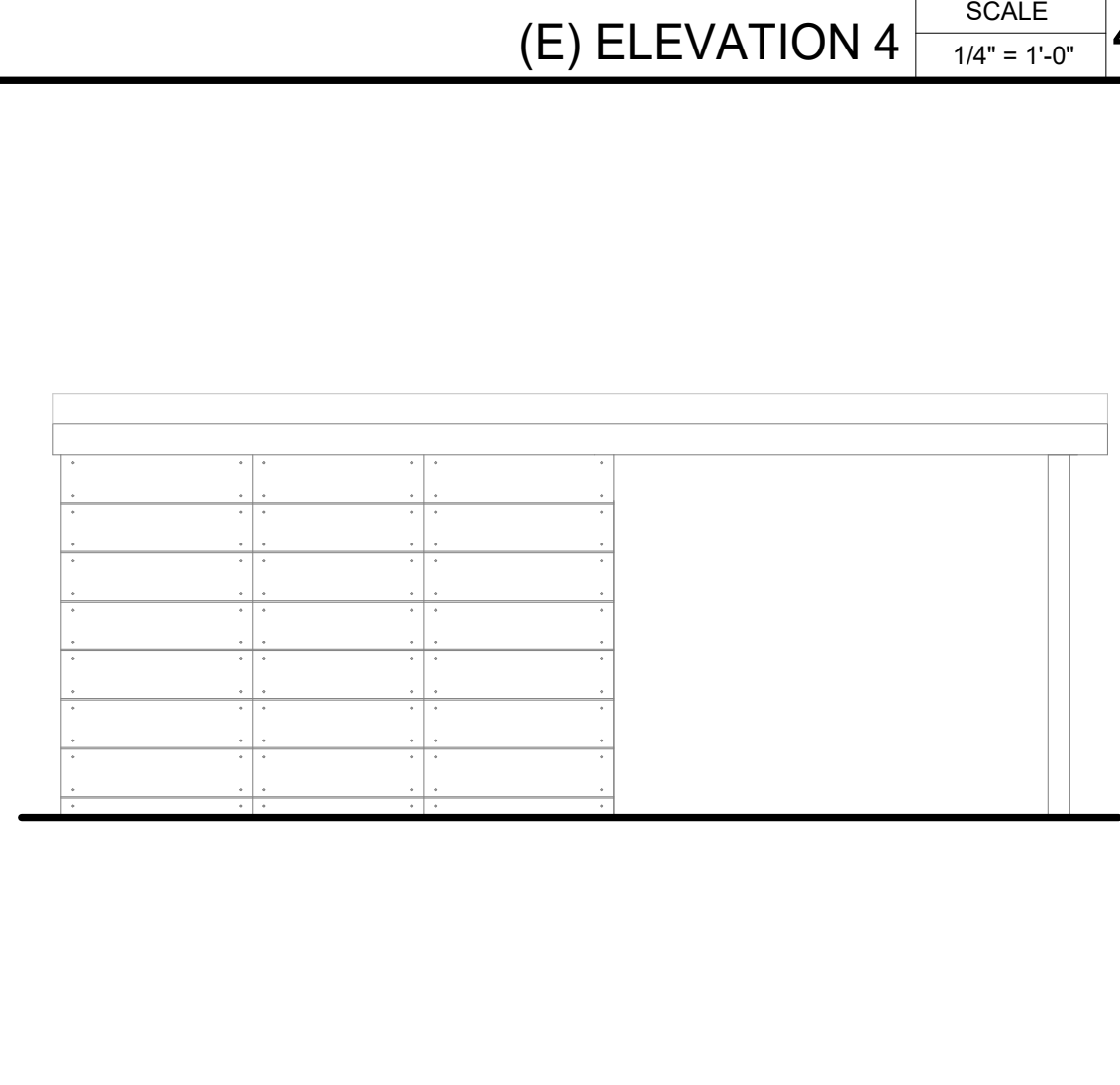
(N) ELEVATION 5 SCALE 1/4" = 1'-0" 11



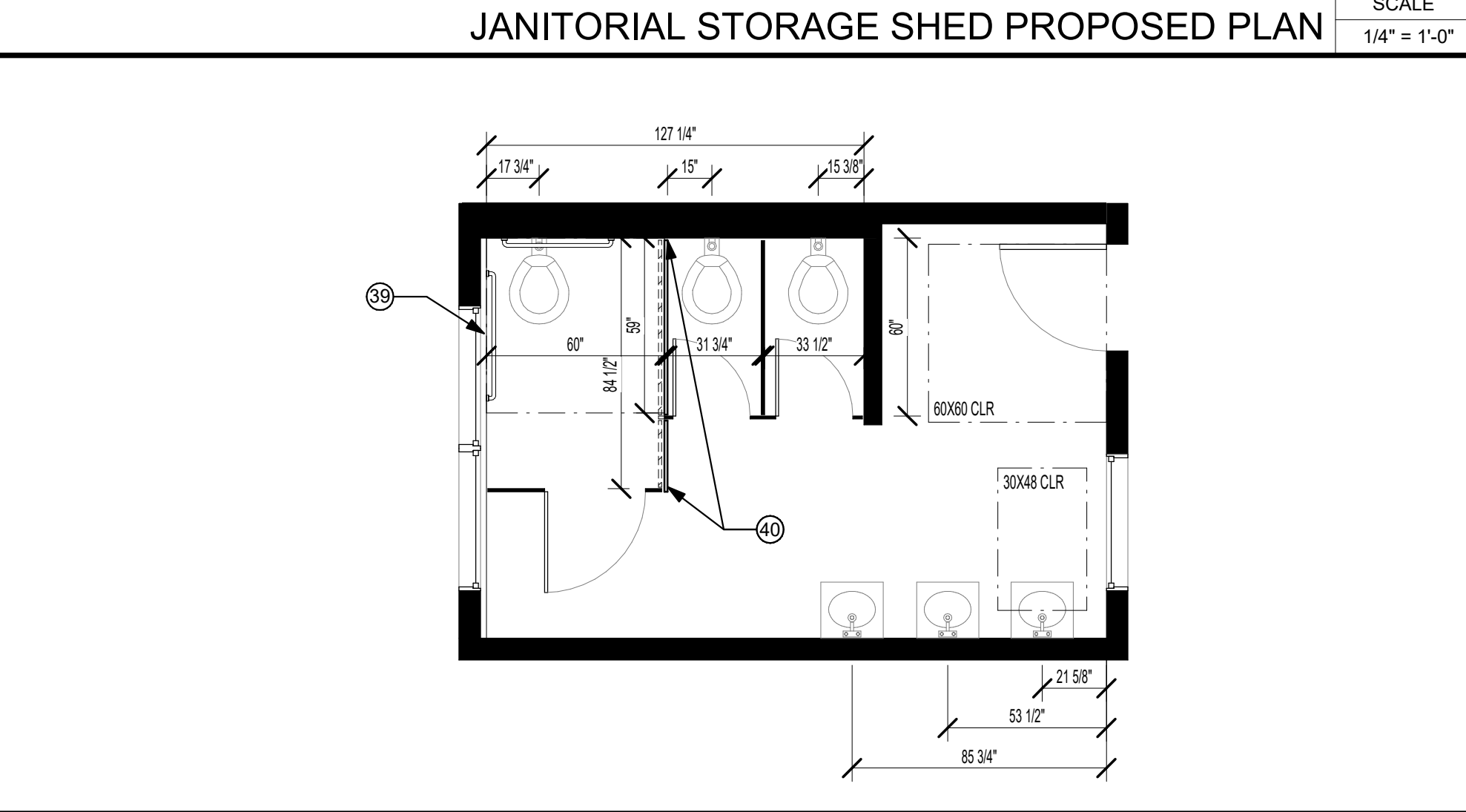
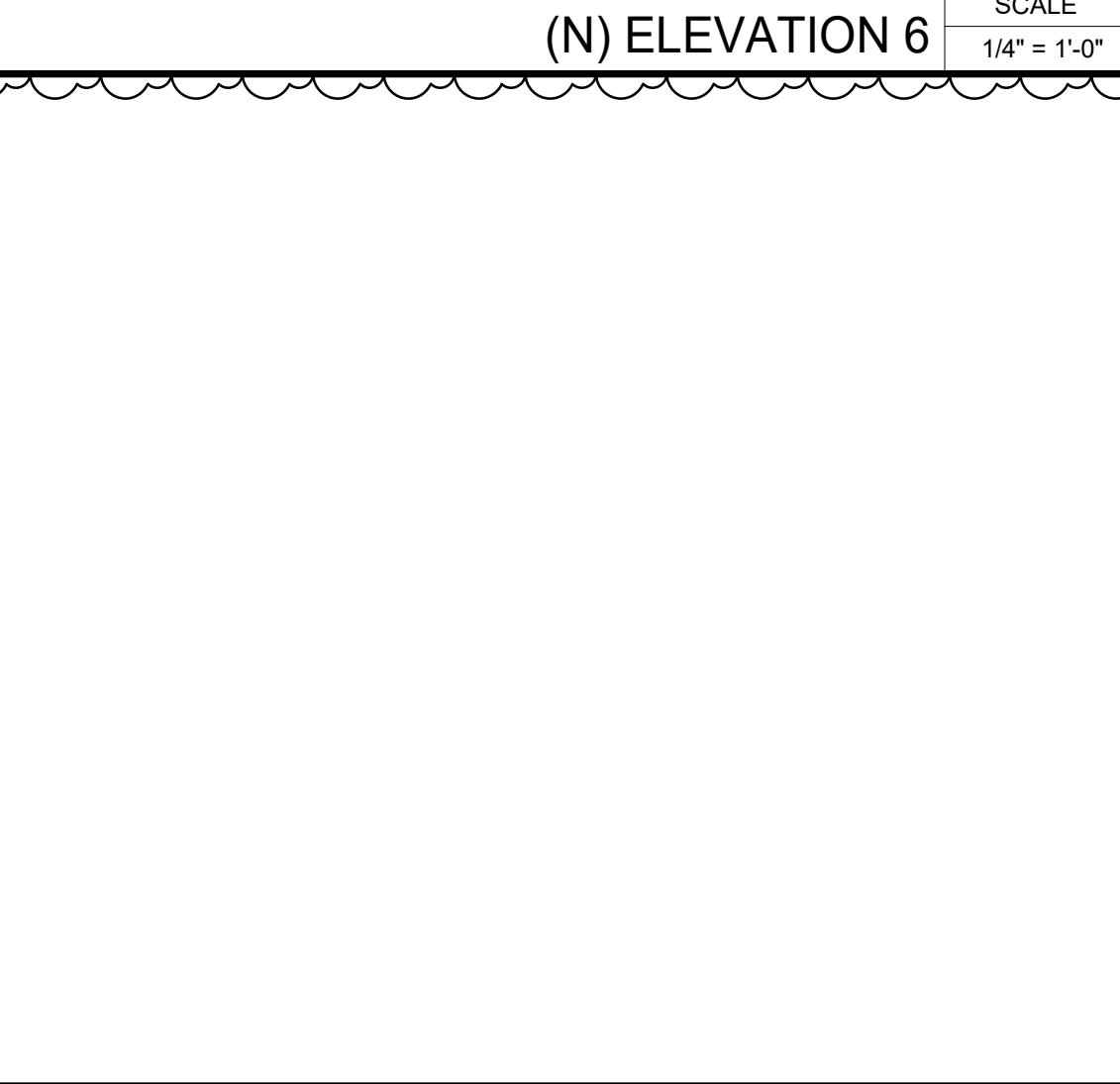
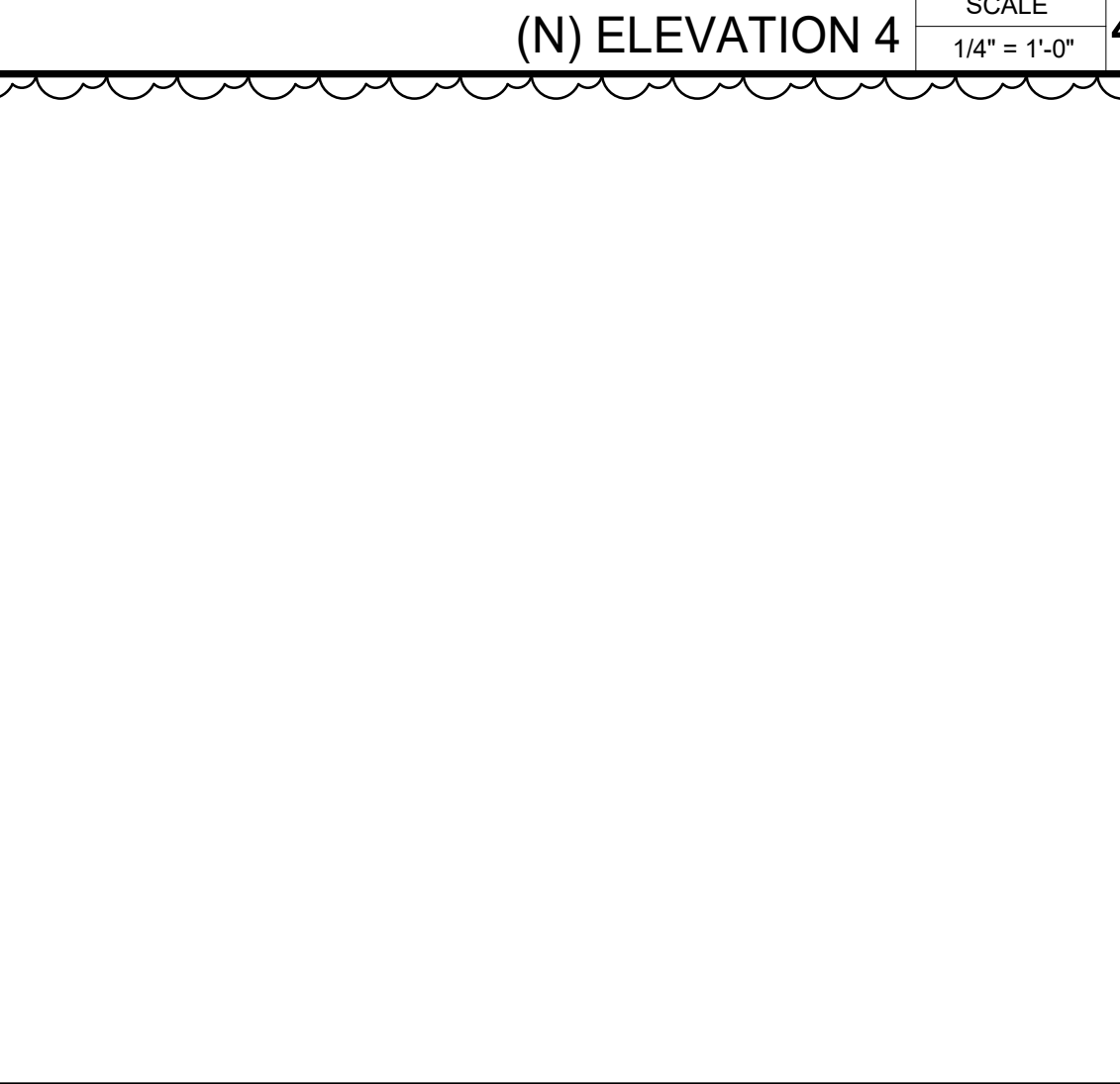
(N) ELEVATION 6 SCALE 1/4" = 1'-0" 12



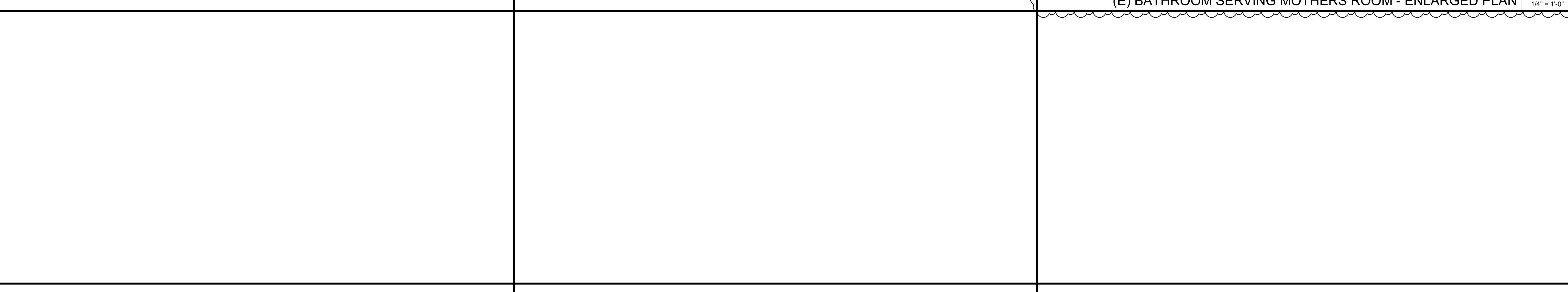
- KEYNOTES (DEMOLITION)**
- 78 ADJUST (E) DOORS
 - 79 REMOVE (E) PLANTINGS
 - 80 ROUGH OPENING FOR (N) DOORS
 - 81 REMOVE (E) FENCE
 - 82 REMOVE (E) VERTICAL MEMBERS TO CREATE ROUGH OPENING FOR (N) DOOR



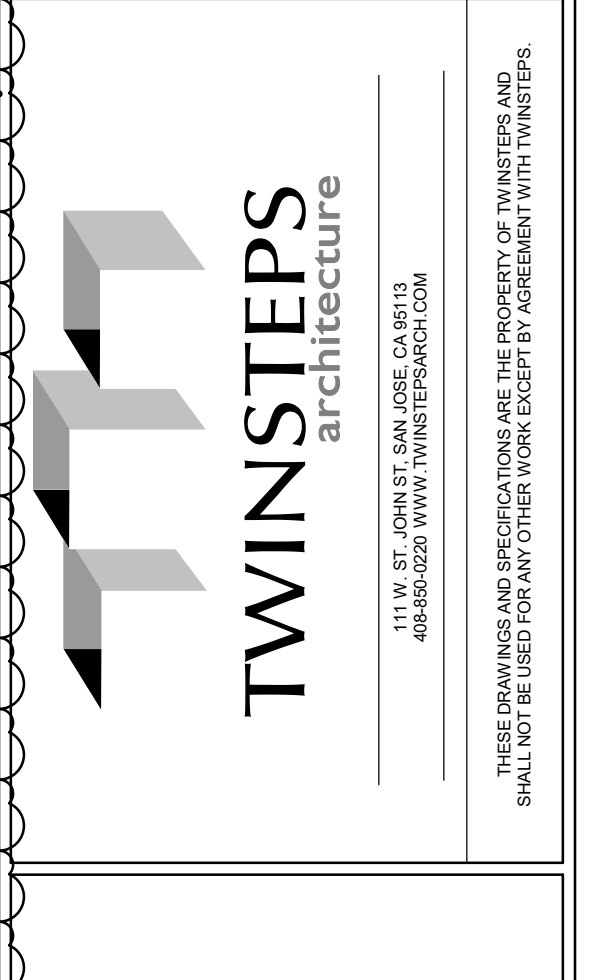
- KEYNOTES (PROPOSED)**
- 83 SPRINKLER ABOVE
 - 84 (N) DOOR
 - 85 SPACE FOR SHELVING UNITS
 - 86 12" BAND OF MATCHING FINISH ALONG AREA OF REMOVED FENCE
 - 87 INFILL FOR (N) LANDING AT GRADE
 - 89 EXISTING DOORS TO BE FIXED SHUT, NON-OPERABLE
 - 92 CAGED L.E.D. ABOVE
 - 93 REINFORCE (N) DOOR OPENING IN WALL



- KEYNOTES (EXISTING)**
- 39 (E) BUILT-UP TILE
 - 40 MOVE (E) W.C. STALL PARTITION TO CREATE ACCESSIBLE CLEARANCE, G.C. TO CONFIRM IN THE FIELD, SEE 2/A0.5 FOR ACCESSIBILITY DETAILS



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**JANITORIAL SHED PLANS &
ELEVATIONS / RESTROOM PLAN**

DATE: 09/17/19
P.M.: Checker
DRAWN BY: Author
JOB NO.: SJC-19-048

A3.3

REMARKS

DATE 10/07/2019 PERMIT SET

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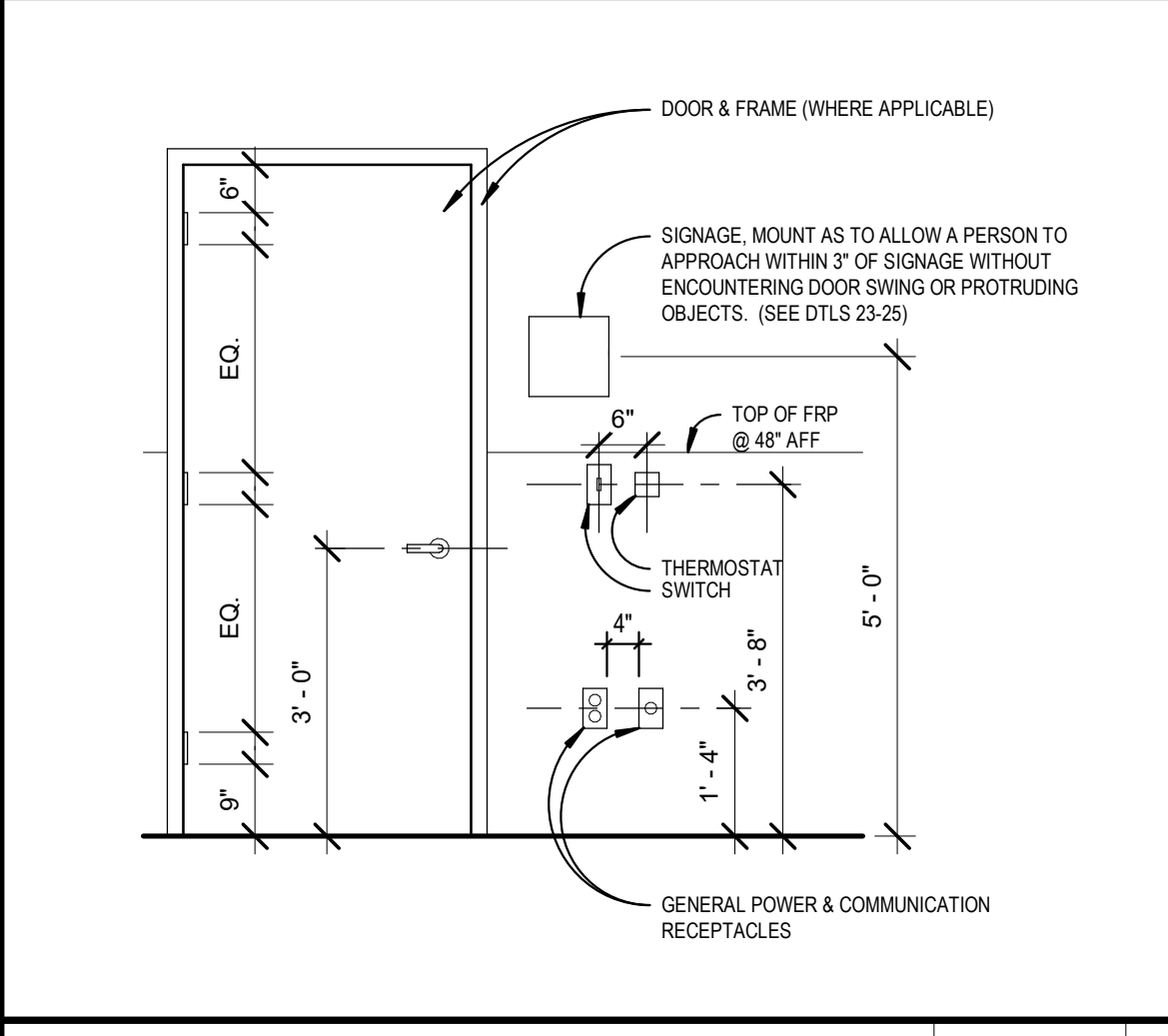
**DOOR SCHED., TYPES, HARDWARE
& NOTES**

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO.: SJC-19-048

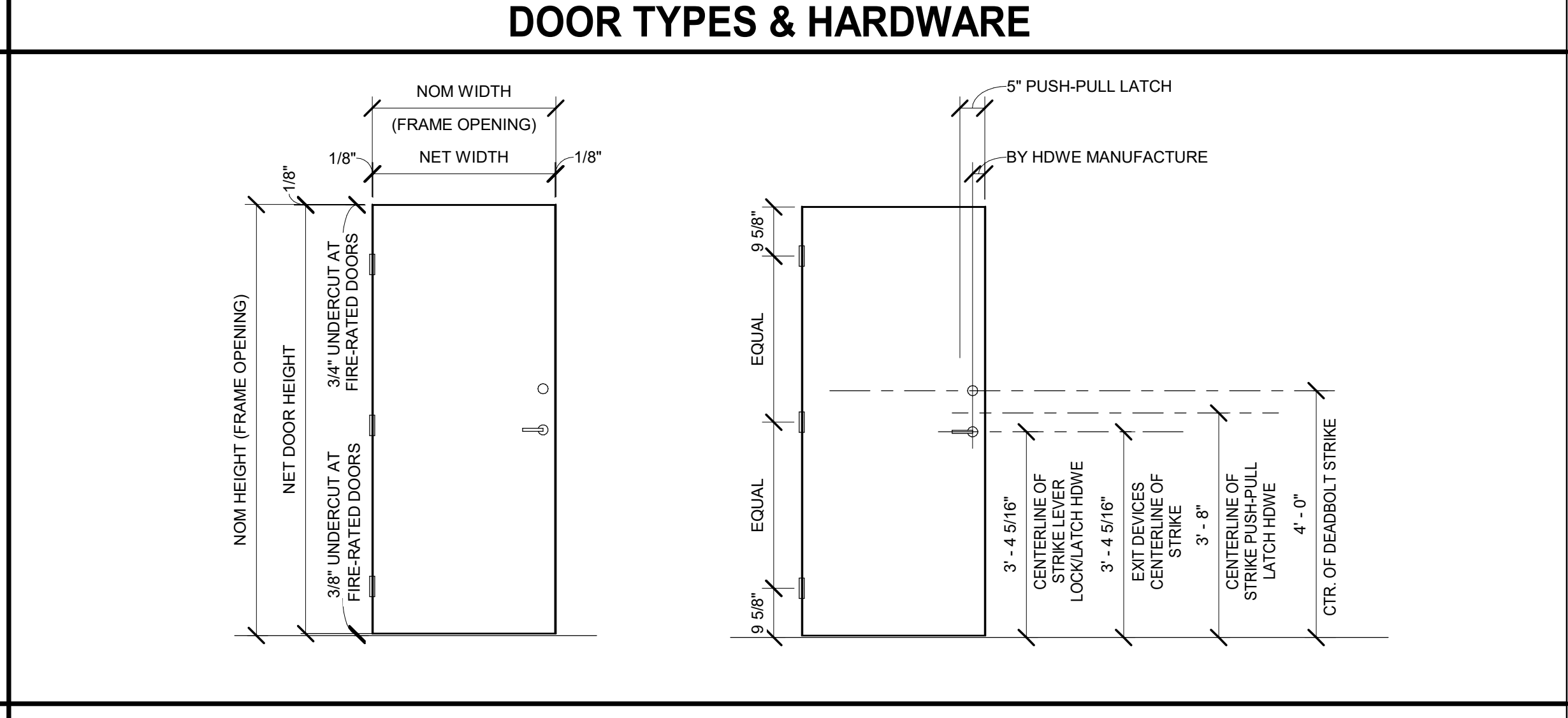
A4.1

DOOR SCHEDULE															
DOOR NUMBER	NAME	ROOM NUMBER	TYPE	DOOR DIMENSION			DOOR MATERIAL & FINISH		FRAME MATERIAL & FINISH		PANIC HARDWARE		COMMENTS		
				W	H	T	MATERIAL	FINISH	SIDELITE GLASS FINISH	MATERIAL	FINISH	BUILDING STANDARD		FIRE-RATED	HWWR. GRP.
101	BUILDING STANDARD	MOTHER'S ROOM		3'-0"	7'-0"	1 3/4"	BUILDING STANDARD	BUILDING STANDARD PAINT	N/A	BUILDING STANDARD	BUILDING STANDARD PAINT	N/A	N/A	1	CARD READER, ELECTRIFIED HINGES
102	BUILDING STANDARD	JANITORIAL STORAGE		4'-0"	6'-8"	1 3/4"	WOOD	BUILDING STANDARD PAINT	N/A	WOOD	BUILDING STANDARD PAINT	N/A	N/A	1	

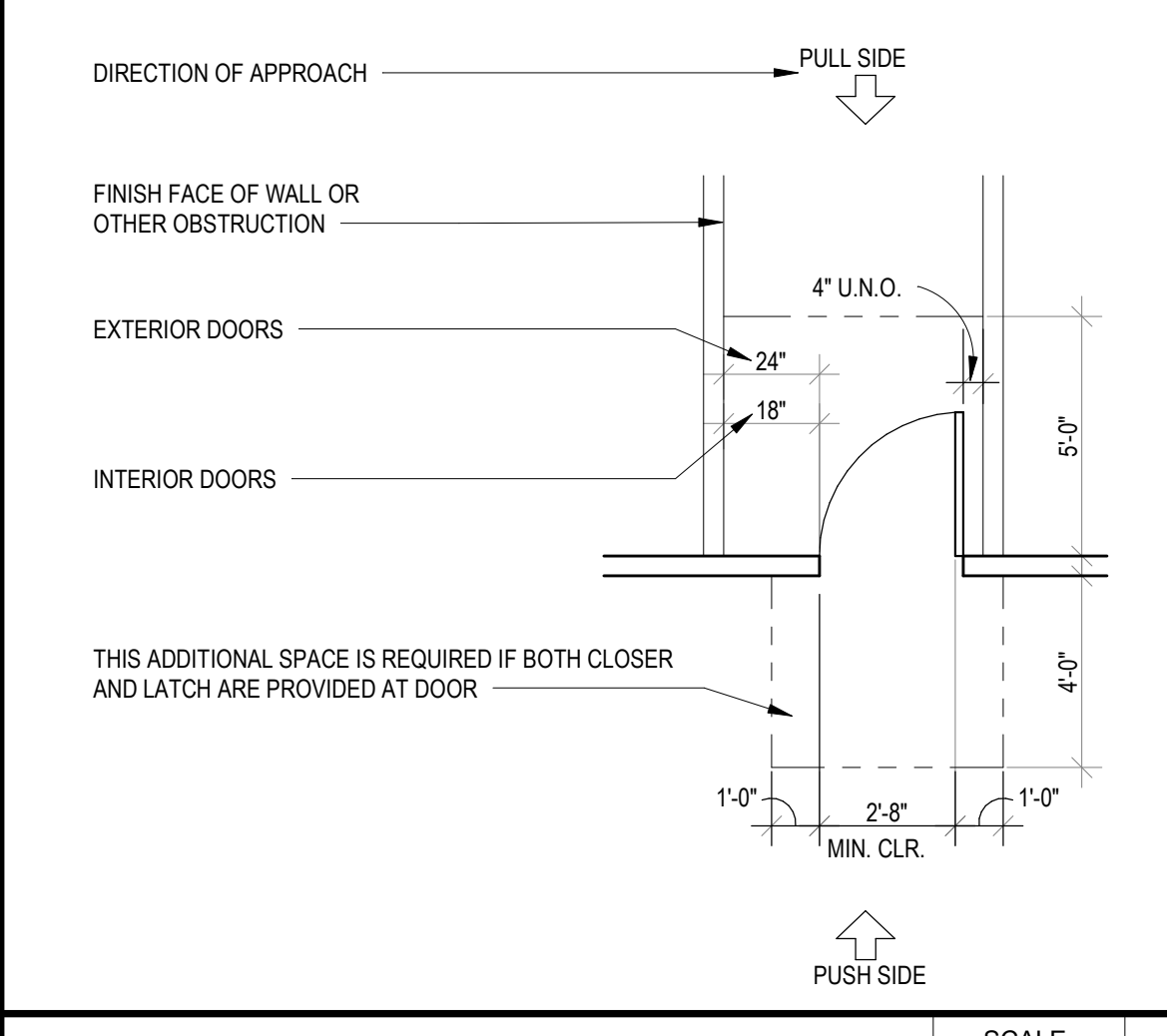
HARDWARE GROUPS:
1. HINGE: 2+4652-460
LOCKSET: SCHLAGE L9092PEU
JAMB STRIKE: ANSI
CLOSER: LCN 4040XP



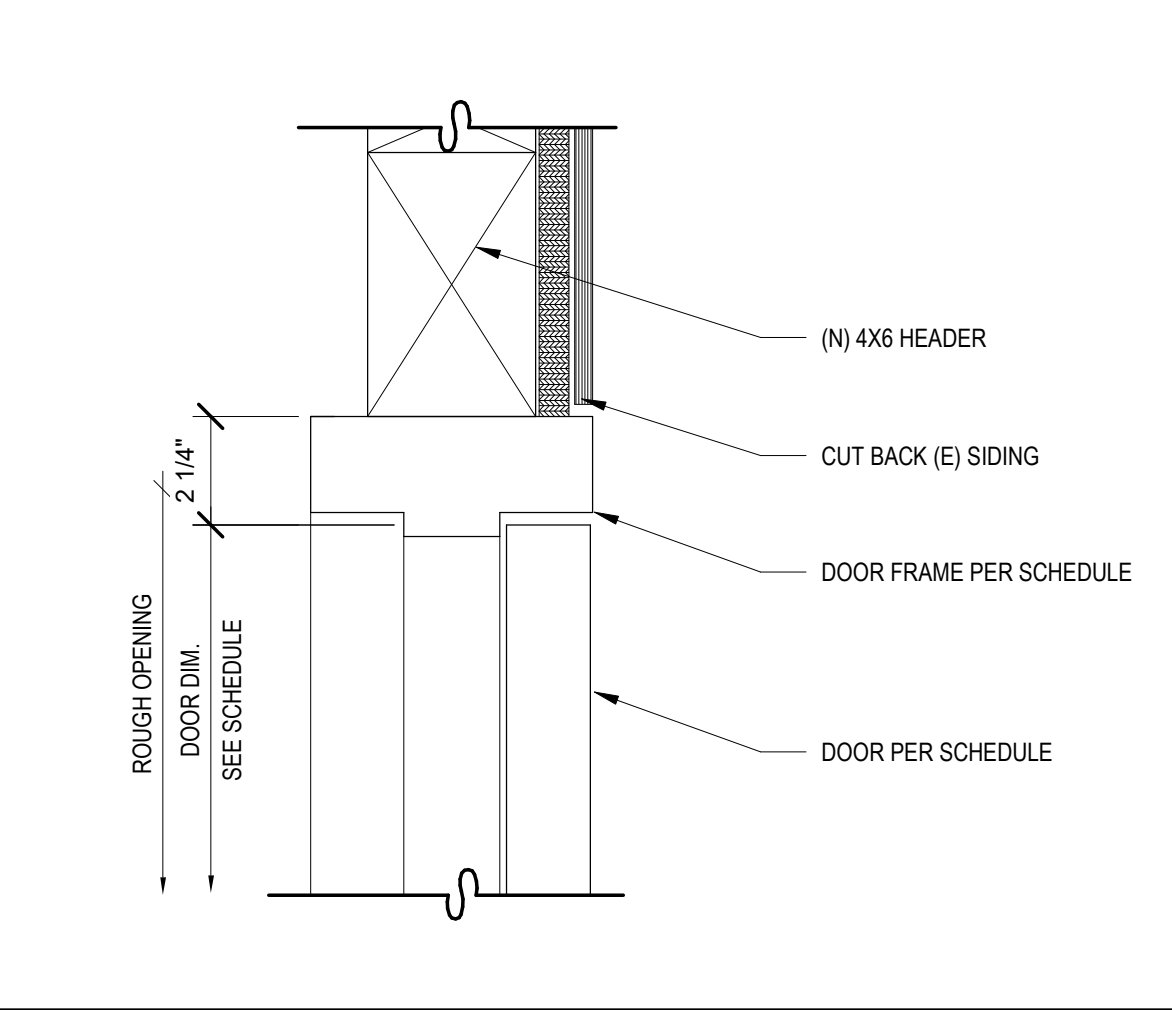
TYPICAL MOUNTING HEIGHTS SCALE 1/2" = 1'-0" 20



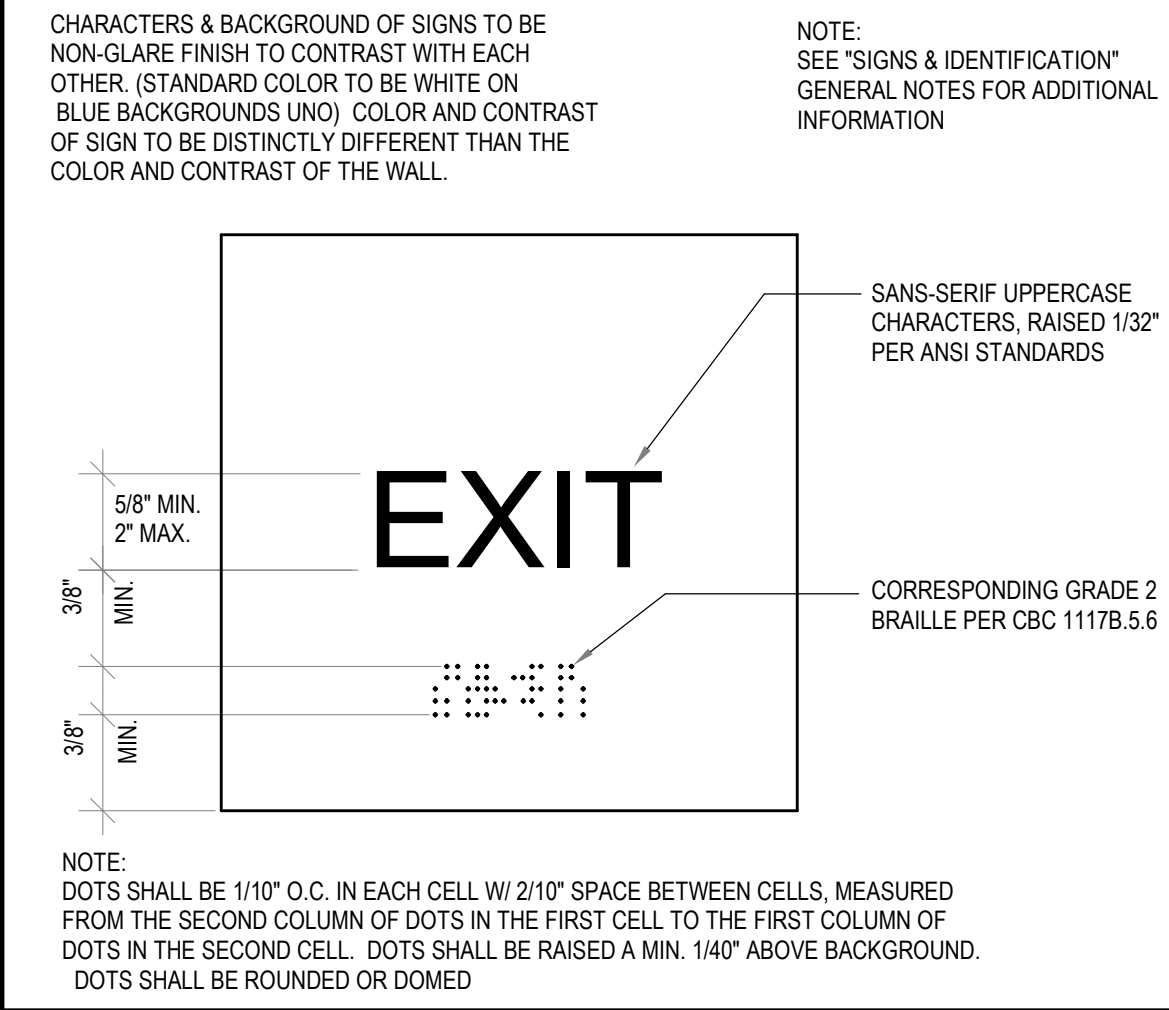
DOOR TYPES & HARDWARE



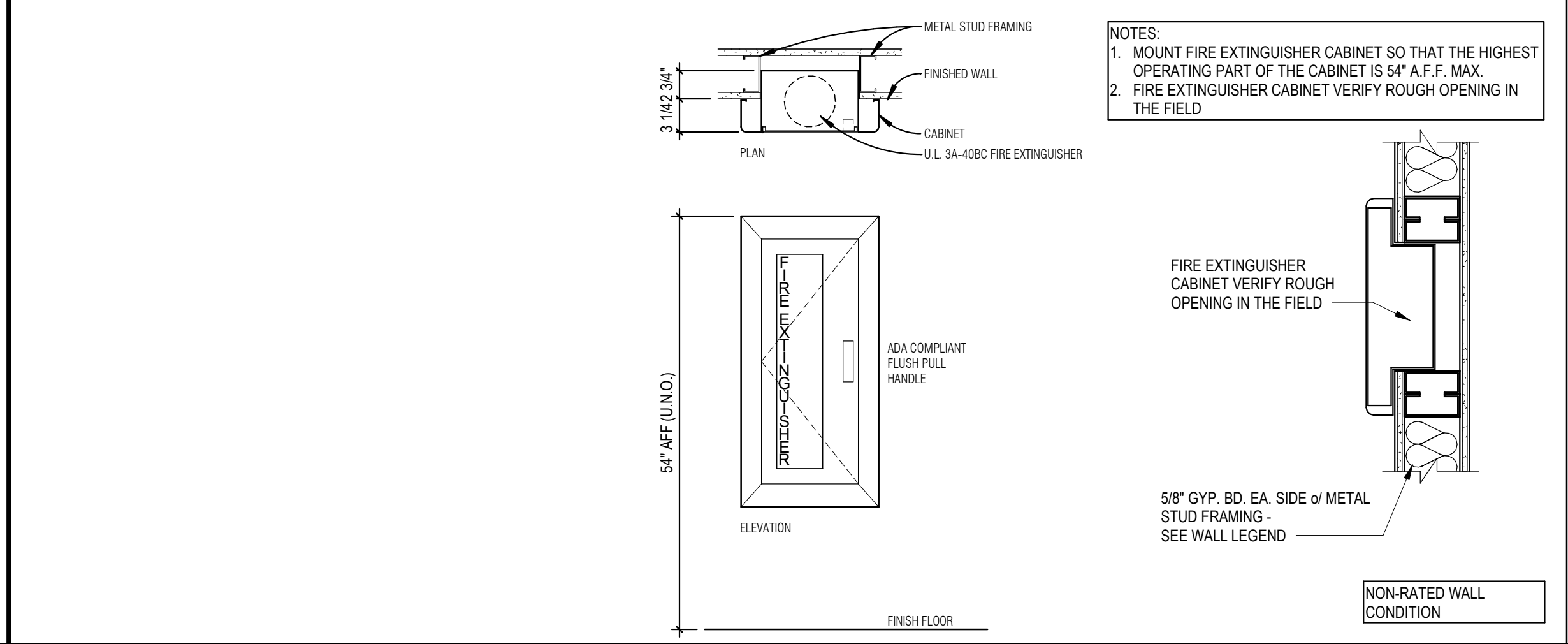
CLEARANCE AT DOOR SCALE 1/4" = 1'-0" 19



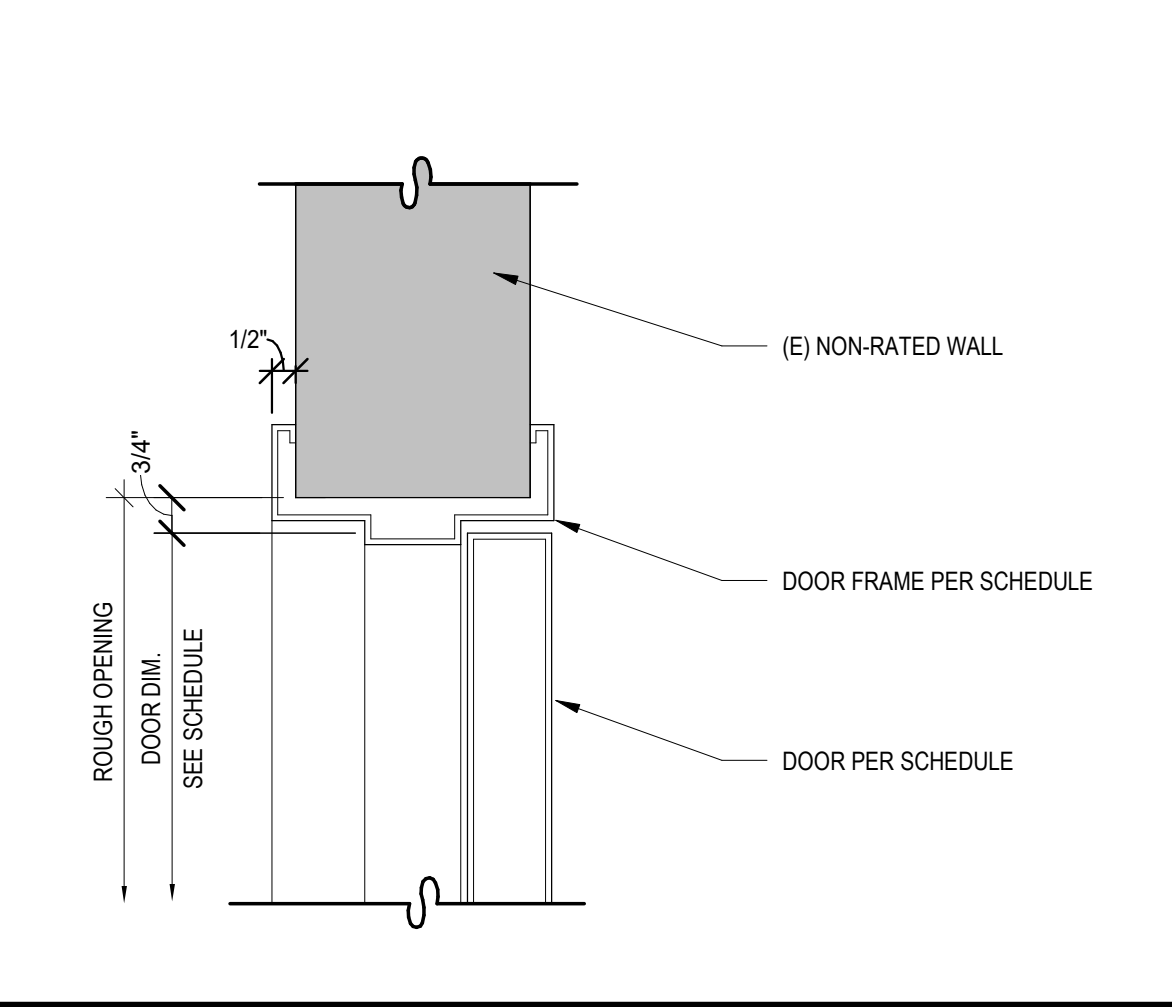
4X6 HEADER SCALE 3" = 1'-0" 17



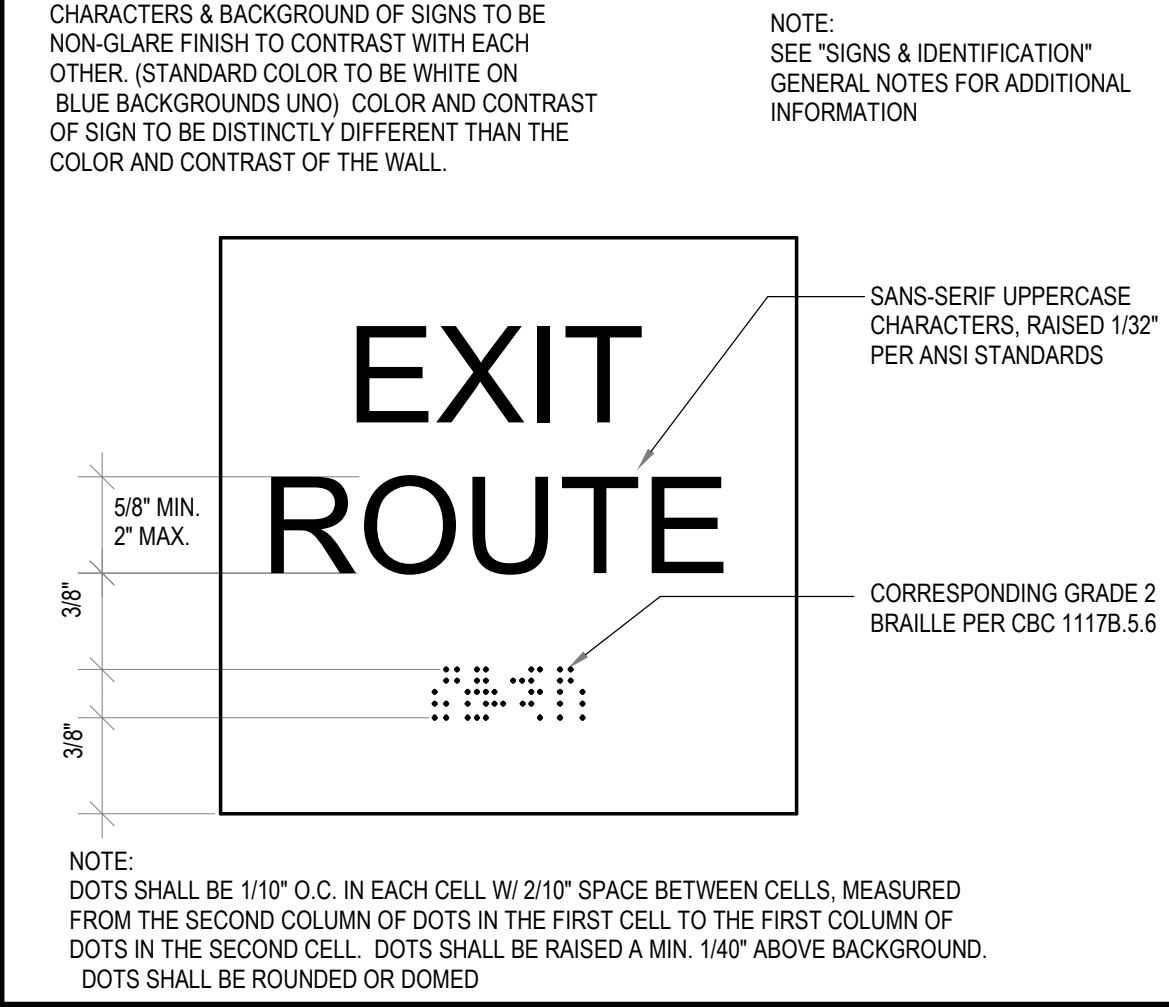
TACTILE EXIT SIGN SCALE 6" = 1'-0" 23



FIRE EXTINGUISHER CABINET (NON, 1HR & 2-HR) SCALE 1 1/2" = 1'-0" 1

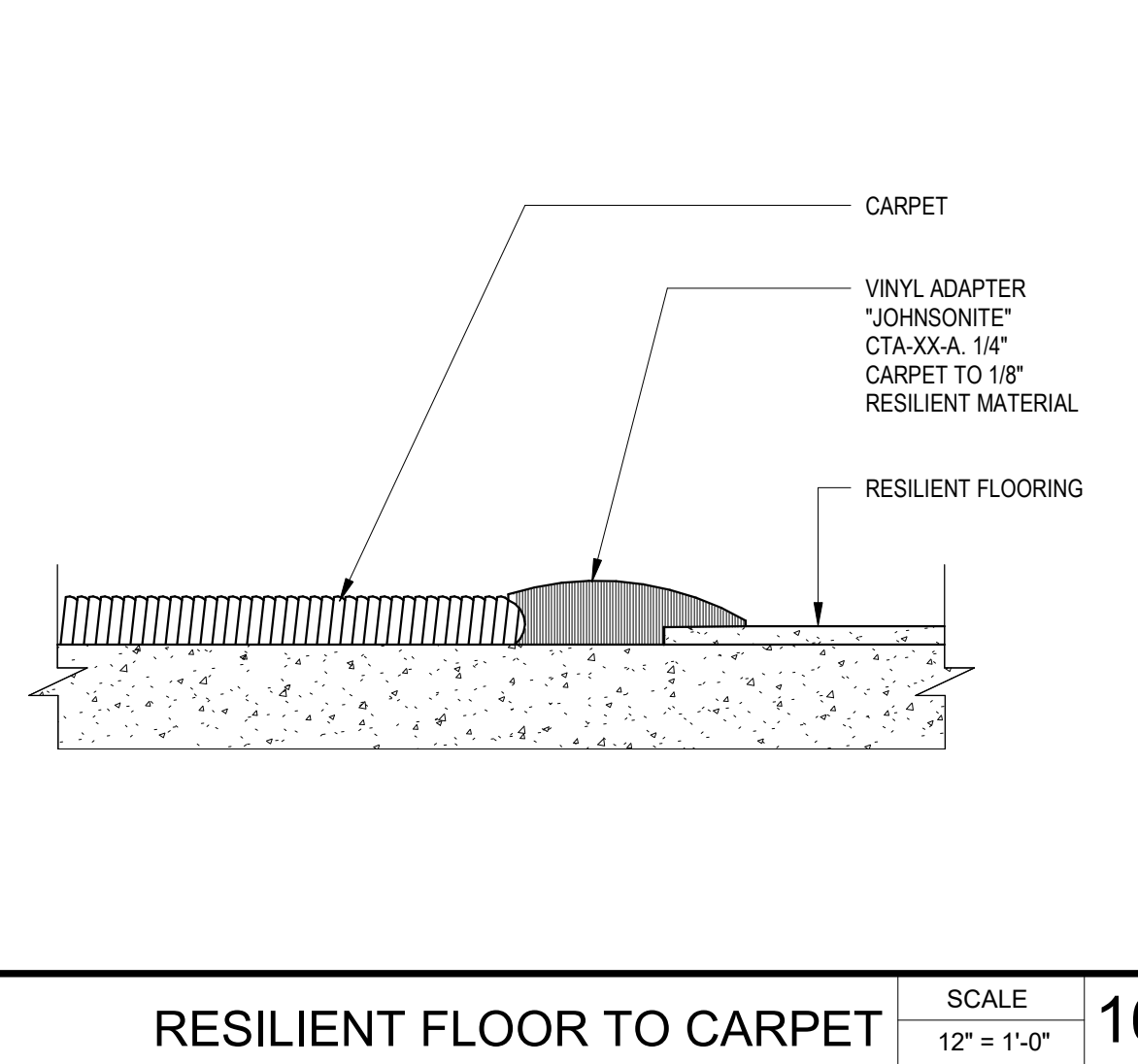


DOOR HEAD (JAMB SIM.) SCALE 3" = 1'-0" 18

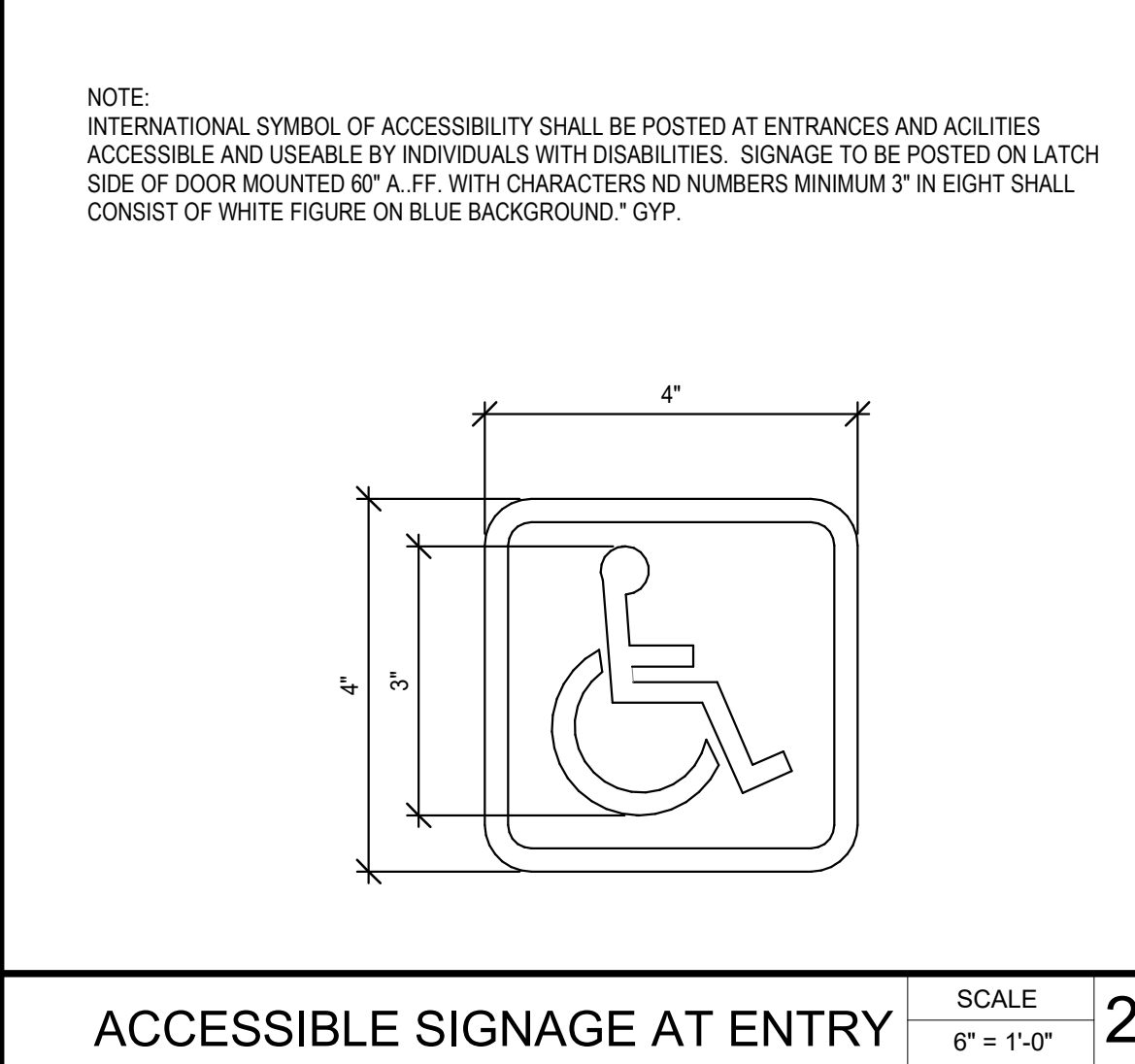


TACTILE EXIT ROUTE SIGN SCALE 6" = 1'-0" 22

- GENERAL DOOR NOTES**
- FIELD MEASURE AS REQUIRED. ALL DOORS PRIOR TO FABRICATION.
 - PROVIDE A SIGN ON OR NEAR THE MAIN EXIT DOOR READING "THIS DOOR TO REMAIN UNLOCKED WHENEVER THE BUILDING IS OCCUPIED".
 - LATCHING AN LOCKING DOORS THAT ARE HAND OPERATED SHALL BE OPERABLE WITH A SINGLE EFFORT WITHOUT REQUIRING THE ABILITY TO GRASP THE HARDWARE. (LEVER OR PUSH TYPE)
 - VERIFY THE CONDITION OF EXISTING DOORS.
 - MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LB FOR INTERIOR AND EXTERIOR DOORS AND 15 LB FOR FIRE DOORS.
 - ALL HARDWARE TO BE LEVER TYPE PER ADA AND GOVERNING CODES.
 - OPENING HARDWARE TO BE LEVER TYPE CENTERED BETWEEN 34" AND 40" A.F.F. CONTRACTOR TO VERIFY EXISTING CONDITION AND MATCH NEW.
 - SPECIAL LOCKING DEVICES SHALL BE OF AN APPROVED TYPE.
 - PROVIDE WEATHER SEALS ON ALL EXTERIOR DOORS.
 - CONTRACTOR IS RESPONSIBLE TO VERIFY AND COORDINATE ALL DOOR FRAME THROAT THICKNESS.
 - ALL DOOR FRAMES TO BE FACTORY FINISHED.
 - ALL DOOR STOPS TO HAVE 2X6 OR 20 GA. BACKING.
 - MAXIMUM UNDERCUT OF ALL DOORS NOT IN A RATED CORRIDOR SHALL NOT EXCEED 1/2" A.F.F.
 - SEE DETAIL FOR DOOR CLEARANCE REQUIREMENTS.
 - ALL DOORS ARE TO BE 3'-0" WIDE UNLESS NOTED OTHERWISE ON PLANS.
 - ALL DESIGNATED EXIT DOORS SHALL BE NON-LOCKING AGAINST EGRESS.
 - ALL THUMB LATCH LOCKING DEVICES ON MEANS OF EGRESS DOORS SHALL BE ACTIVATED BY NO MORE THAN ONE QUARTER (1/4) TURN.
 - ALL GLASS IN DOORS SHALL BE TEMPERED.
 - ALL DOORS & HARDWARE SHALL COMPLY WITH LOCAL BARRIER FREE LAWS AND THE AMERICANS WITH DISABILITIES ACT.
 - ALL WOOD DOORS TO BE SOLID CORE DOORS; PERFORMANCE GRADE: EXTRA HEAVY DUTY; AESTHETIC GRADE: PREMIUM.
 - ALL DOORS TO BE UNDERCUT MIN. 3/4" OR REQ'D BY CODE U.N.O.
 - ALL WOOD DOORS TO BE MAINMAN THERMAL-FUSED DOOR FINISH "HIGHLINE" 797K
 - ALL DOOR FRAMES SHALL BE ONE-PIECE WELDED 16 GA. H.M. - PAINT P-5
 - HOLLOW METAL DOORS SHALL BE 18 GA. FACE SHEETS EXTERIOR DOORS TO BE GALVANIZED & INSULATED.
 - ALL DOORS FRAMES & HARDWARE TO BE PROVIDED AND INSTALLED BY GC.
 - ALL DOORS TO BE EQUIPPED W/ MIN. (5) DOOR SILENCERS ON LATCH-SIDE OF DOOR FRAME.
 - ALL HARDWARE TO BE BRUSHED OR SATIN-FINISH STAINLESS STEEL U.N.O.
 - EXTERIOR SIDE OF ALL PERIMETER WALL DOORS & FRAMES TO BE PAINTED AS APPROVED BY LANDLORD. COORDINATE COLOR W/ EXISTING EXTERIOR DOORS & FRAMES.
 - ALL FIRE DOORS SHALL BE SELF OR AUTOMATIC CLOSING AS REQUIRED BY 2016 CBC SECTION 716.5.3
 - ALL FIRE DOOR SHALL BE SMOKE-ACTIVATED DOORS AS REQUIRED BY 2016 CBC SECTION 716.5.3.3 #13.



RESILIENT FLOOR TO CARPET SCALE 12" = 1'-0" 16



ACCESSIBLE SIGNAGE AT ENTRY SCALE 6" = 1'-0" 21



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11100 E. SPRING VALLEY AVENUE
DENVER, COLORADO 80231
TEL: 303.751.1100
WWW.TWINSTEPSARCH.COM

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325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REMARKS

REV DATE 10/07/2010 PERMIT SET

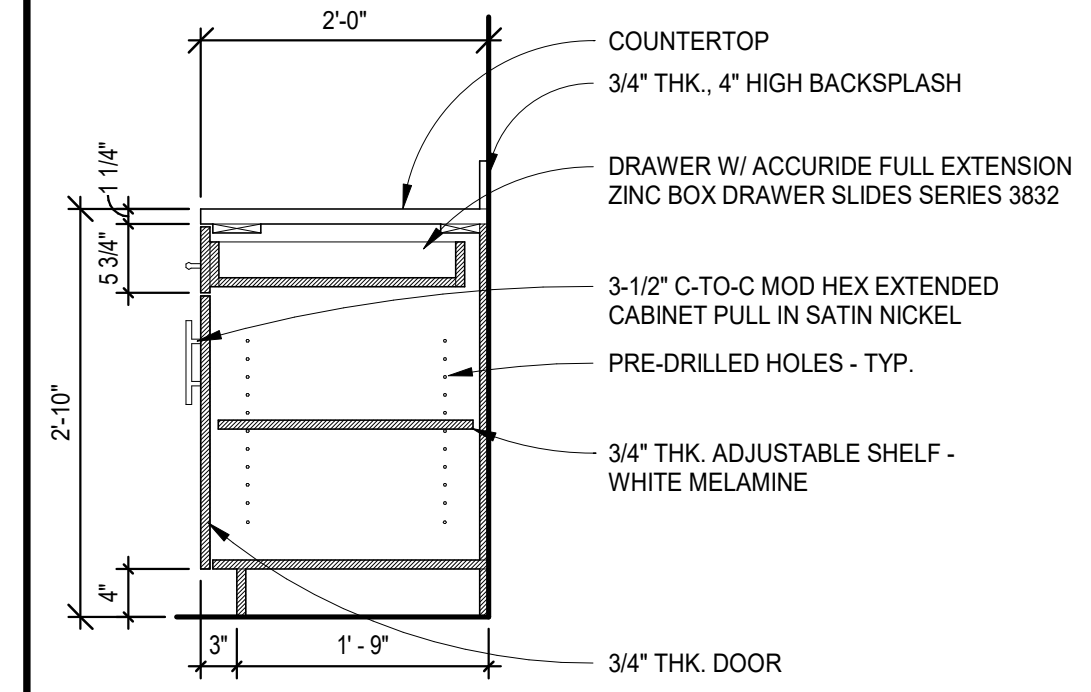
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MILLWORK DETAILS

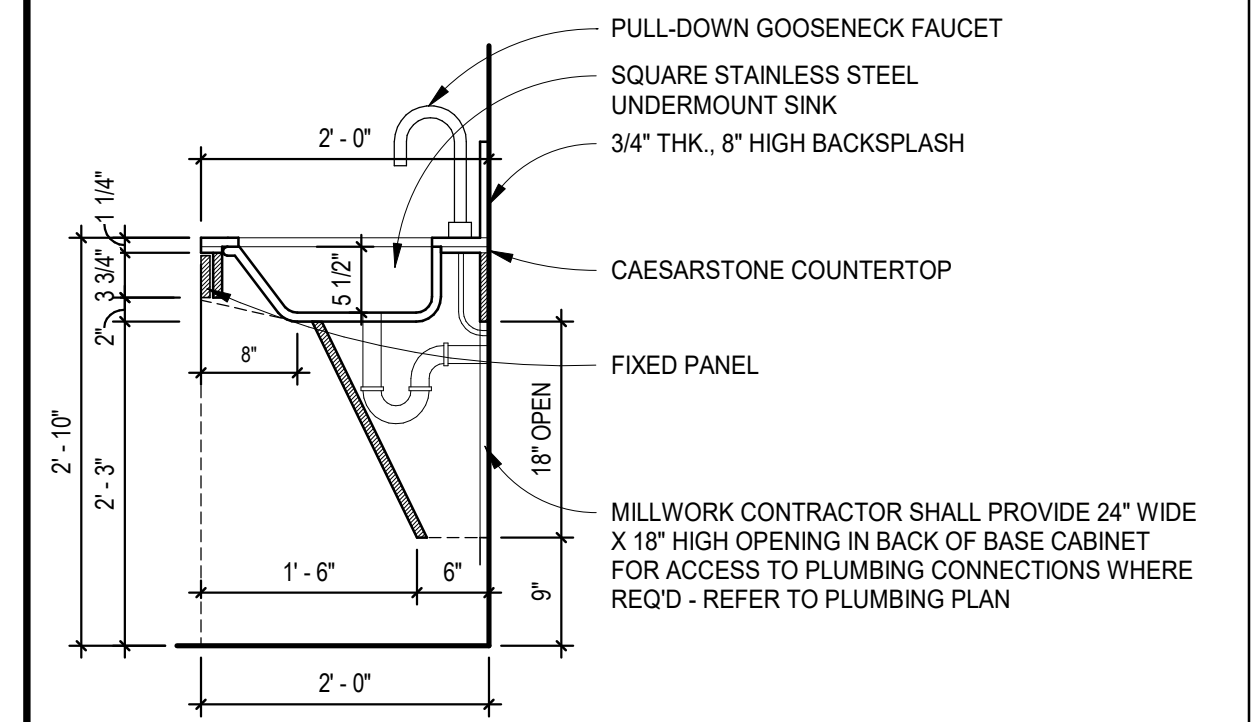
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A4.2

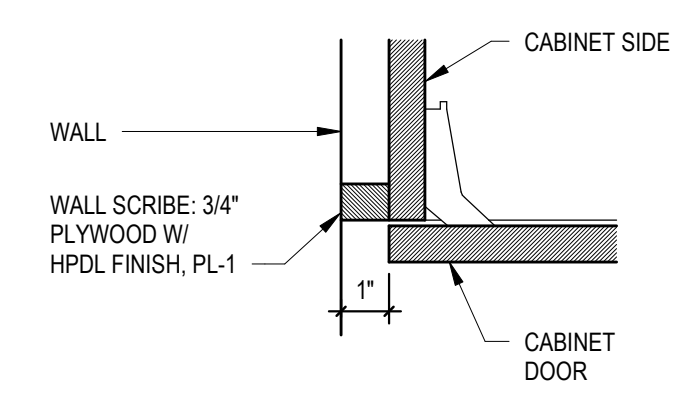
NOTE:
CABINETS SHALL HAVE SILENCERS,
MINIMUM (2) PER DOOR OR DRAWER.



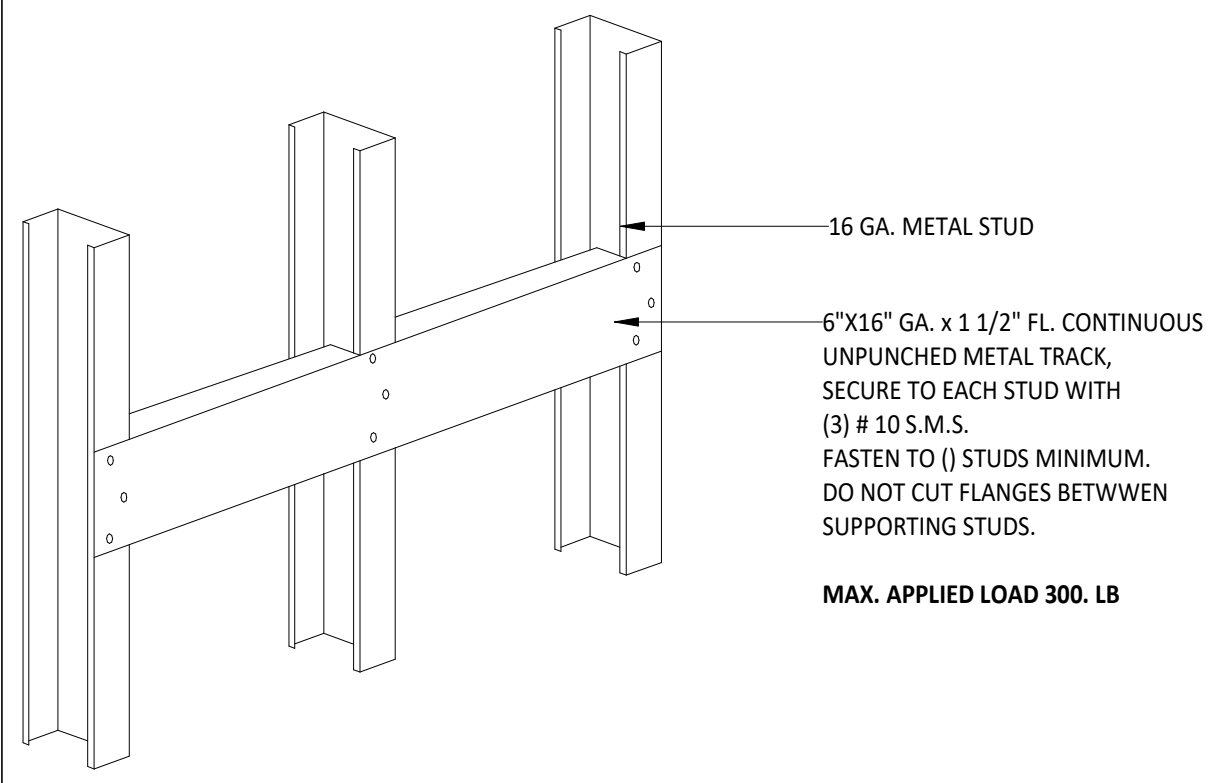
BASE CABINET SCALE 3/4" = 1'-0" **1**



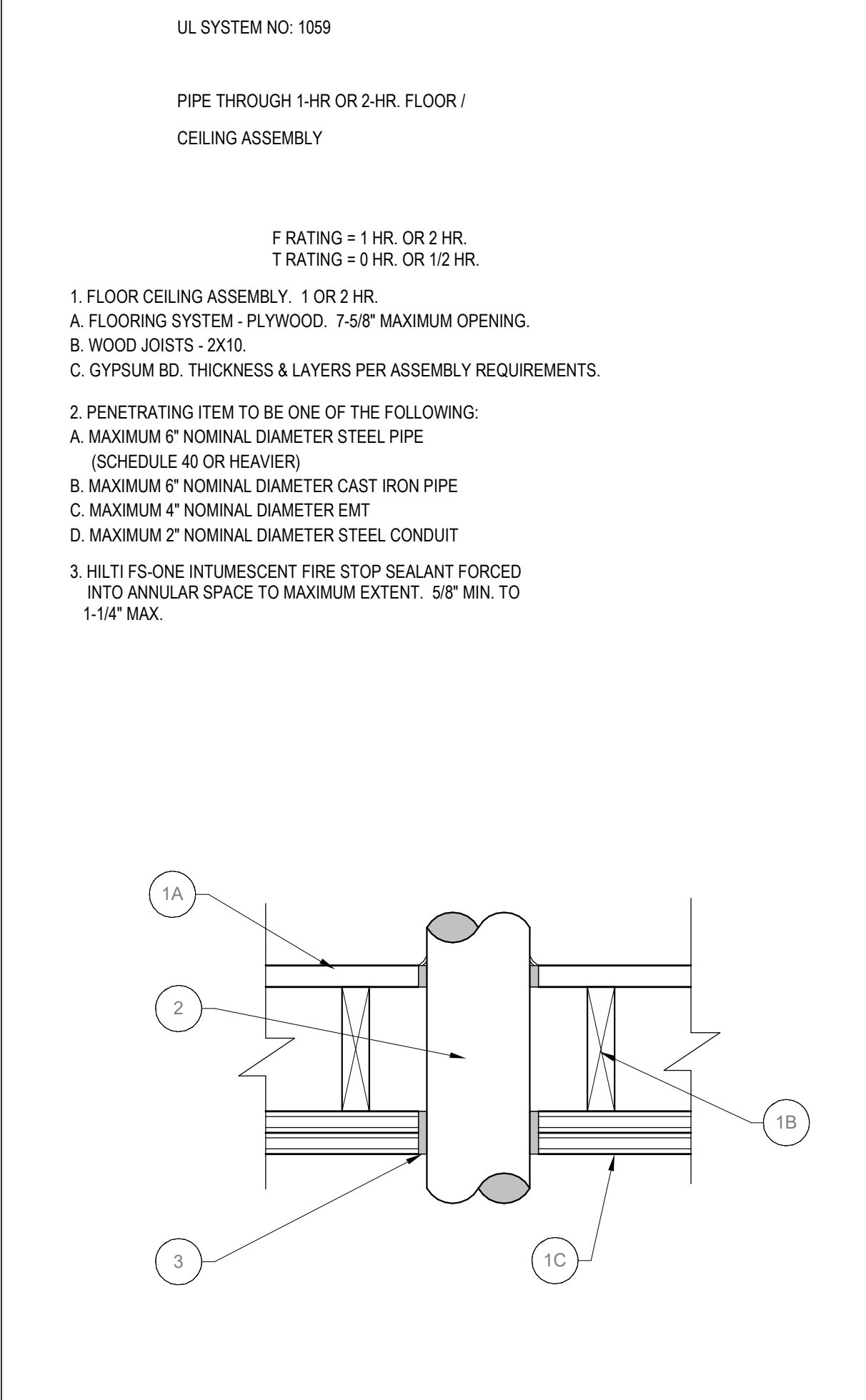
SINK MILLWORK SCALE 3/4" = 1'-0" **2**



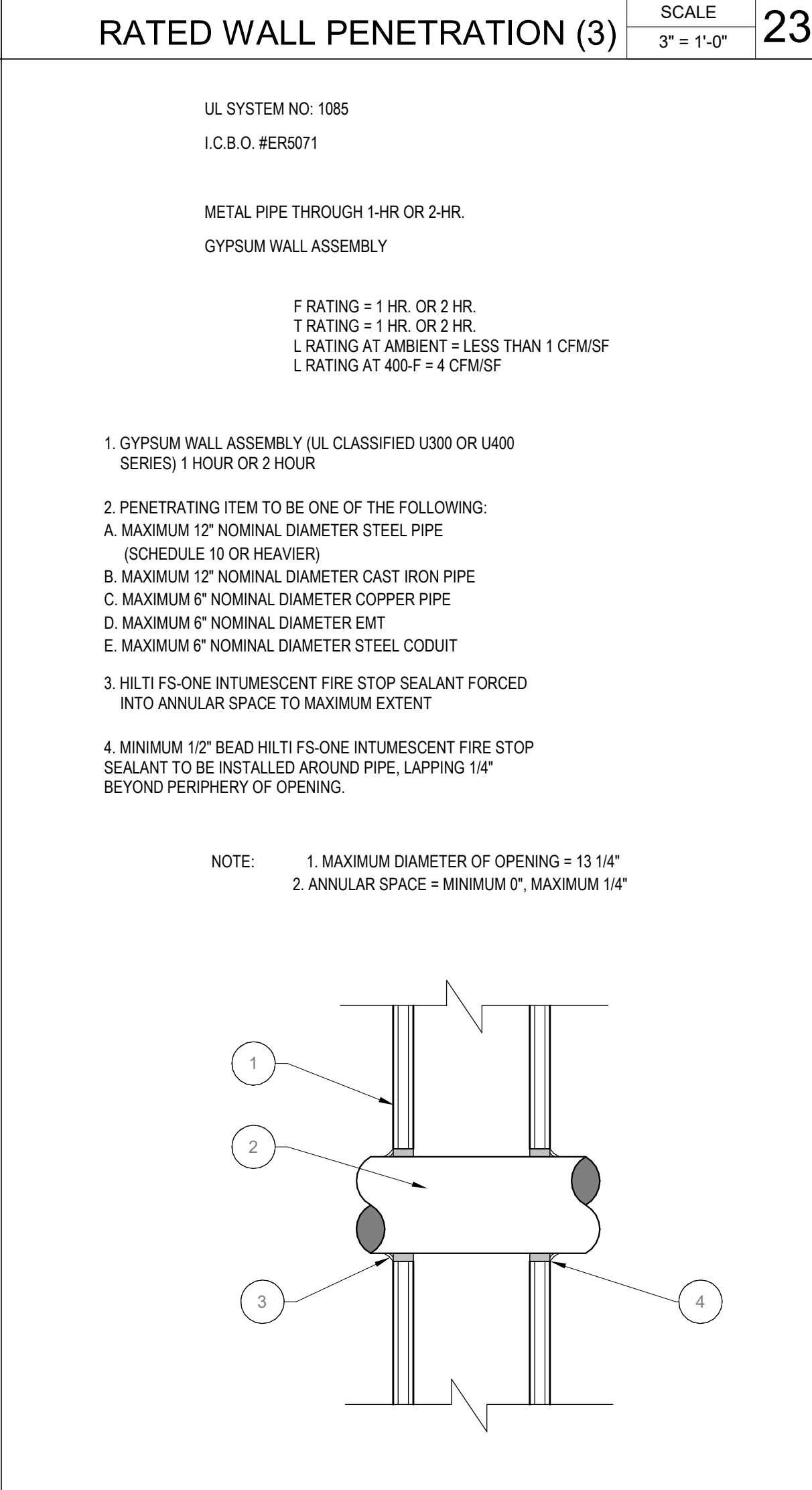
CLOSED CABINET SCRIBE SCALE 3" = 1'-0" **3**



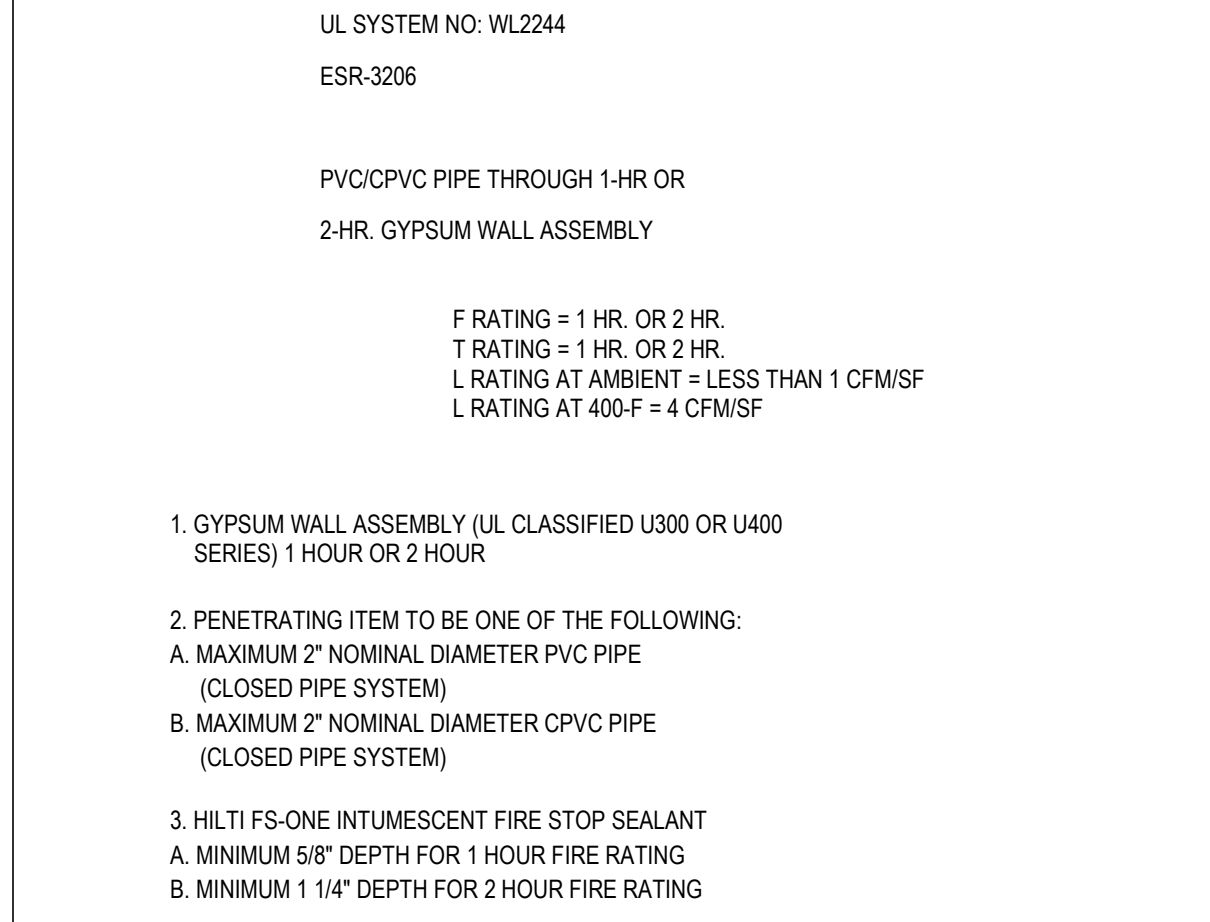
BACKING DETAIL SCALE 3" = 1'-0" **25**



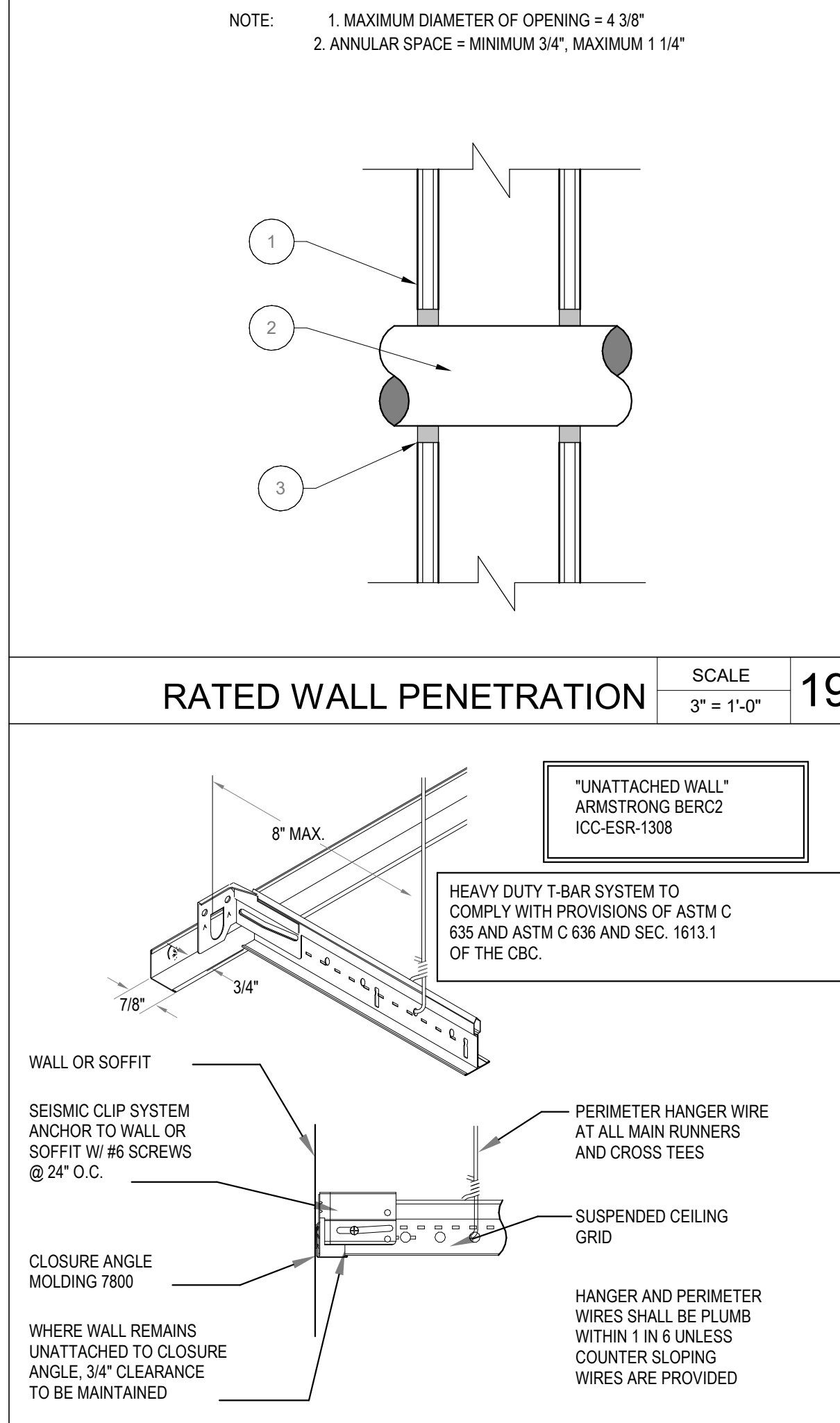
SOFFIT AT WINDOW SCALE 3" = 1'-0" **27**



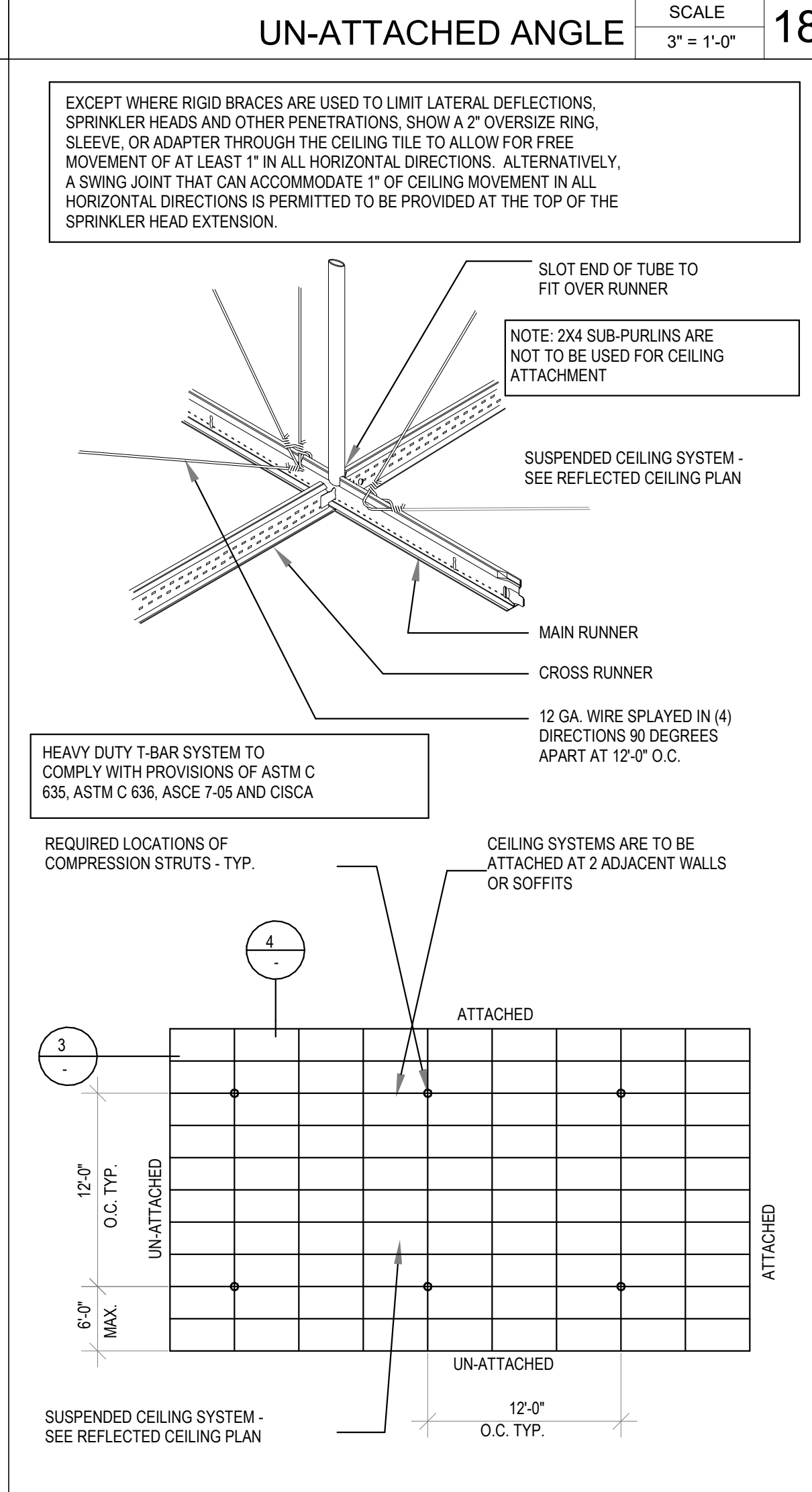
RATED WALL PENETRATION (2) SCALE 3" = 1'-0" **21**



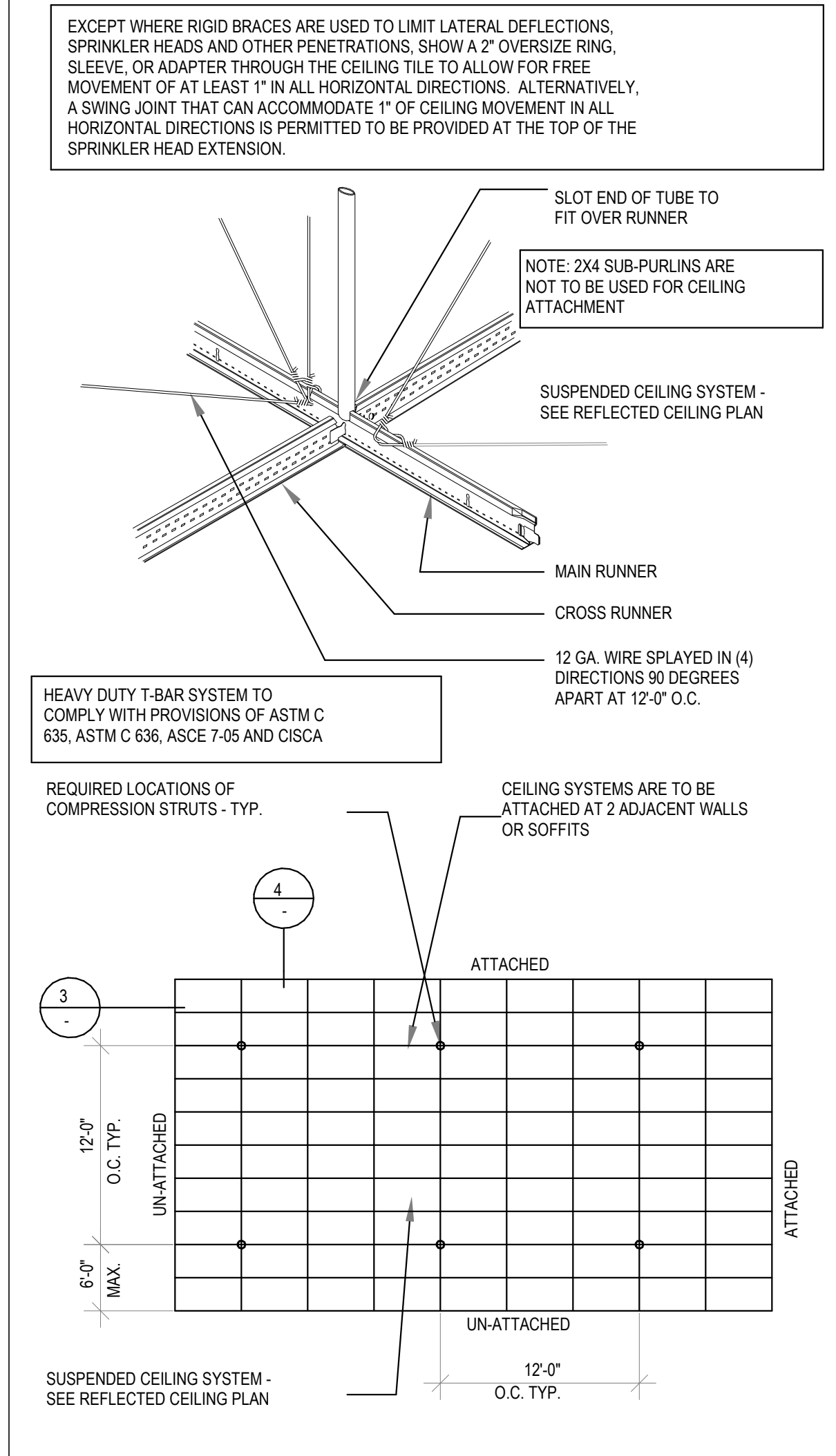
ATTACHED ANGLE SCALE 3" = 1'-0" **15**



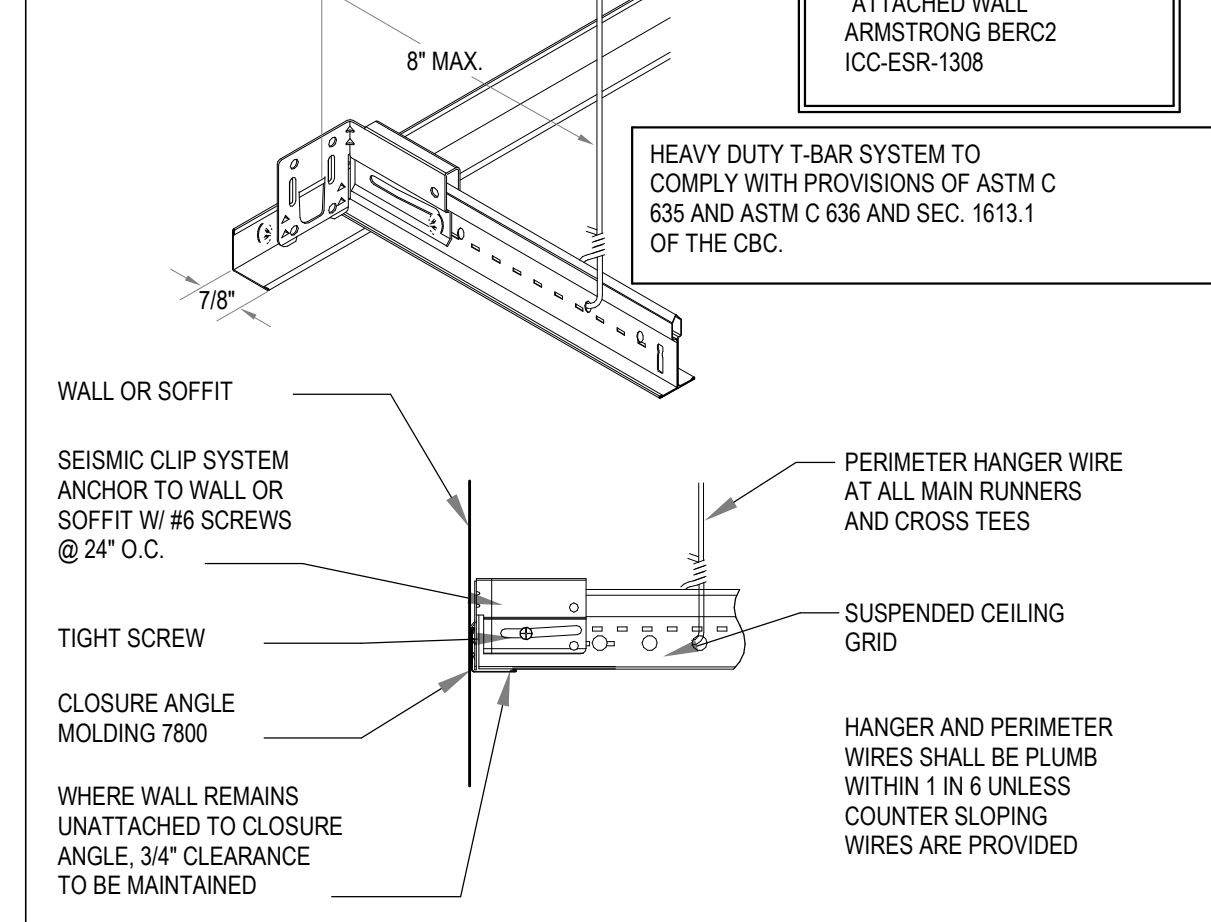
RATED WALL PENETRATION (3) SCALE 3" = 1'-0" **23**



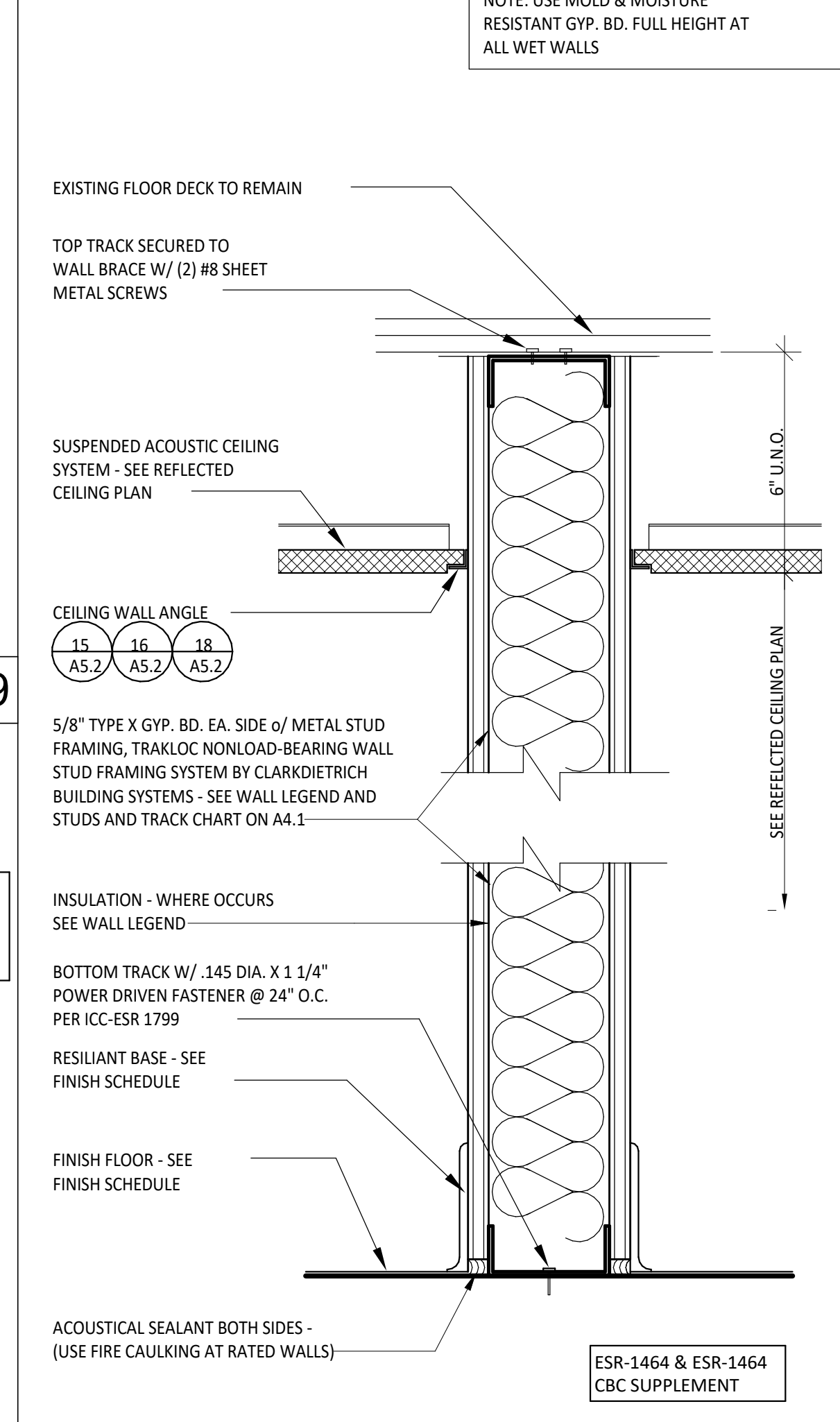
UN-ATTACHED ANGLE SCALE 3" = 1'-0" **18**



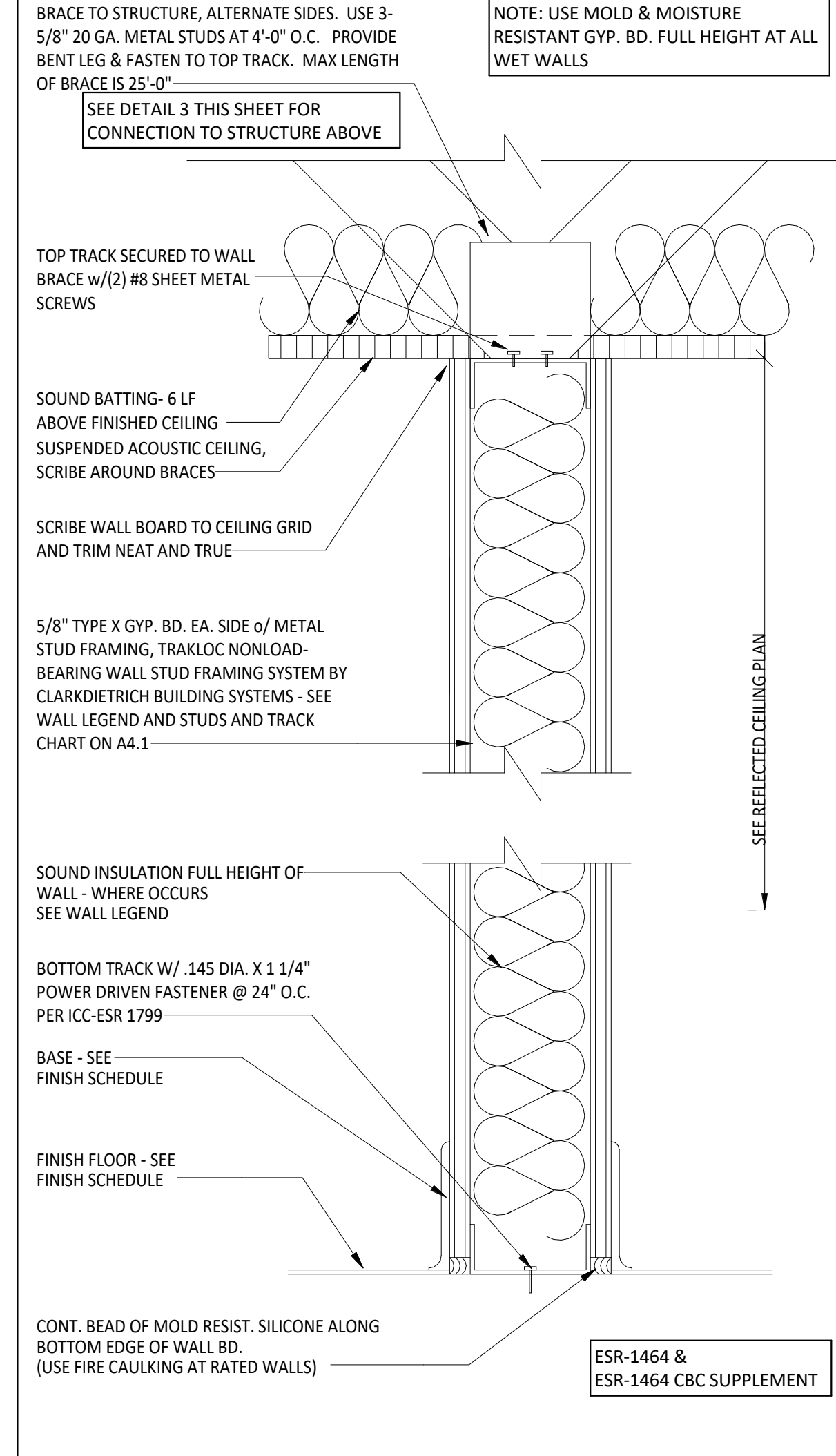
SUSPENDED CEILING SCALE 3" = 1'-0" **16**



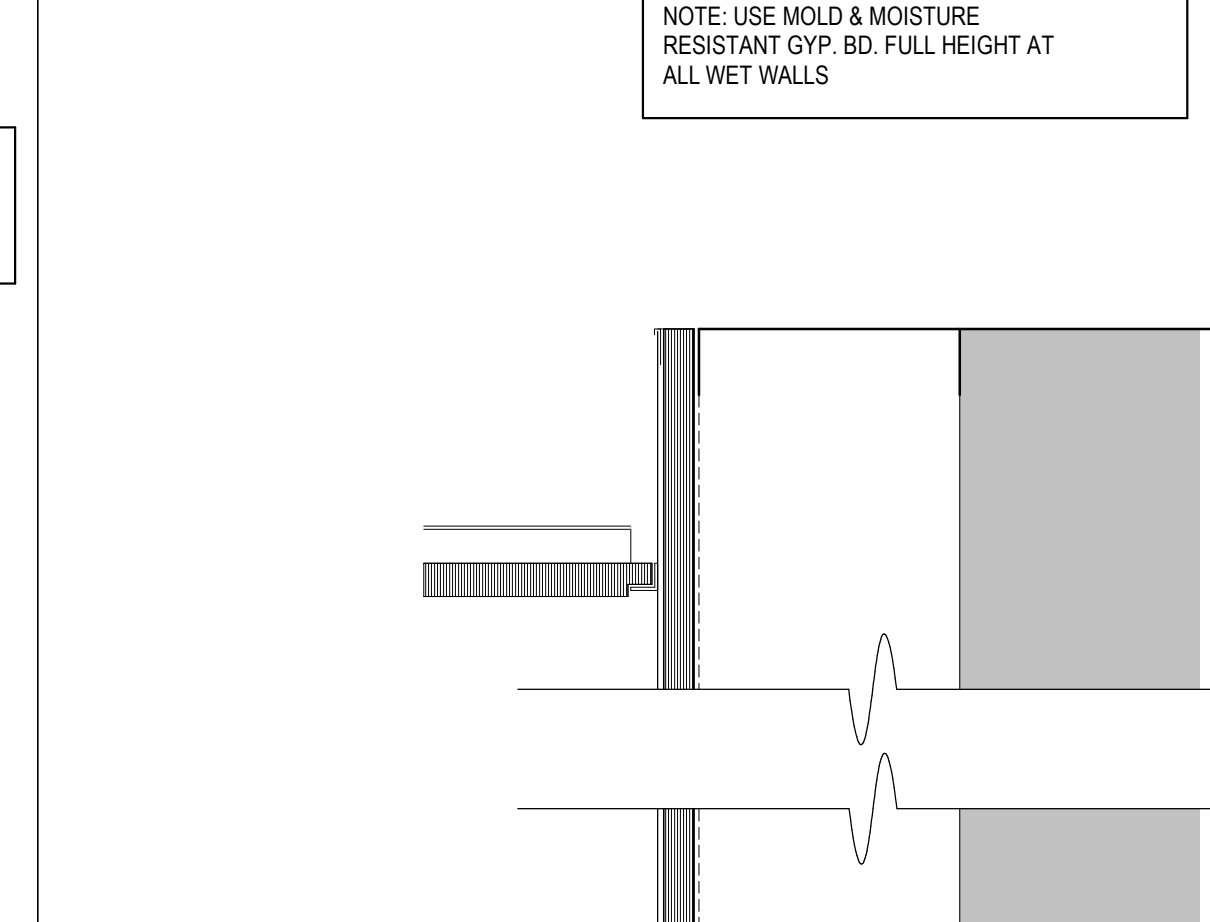
ATTACHED WALL SCALE 3" = 1'-0" **13**



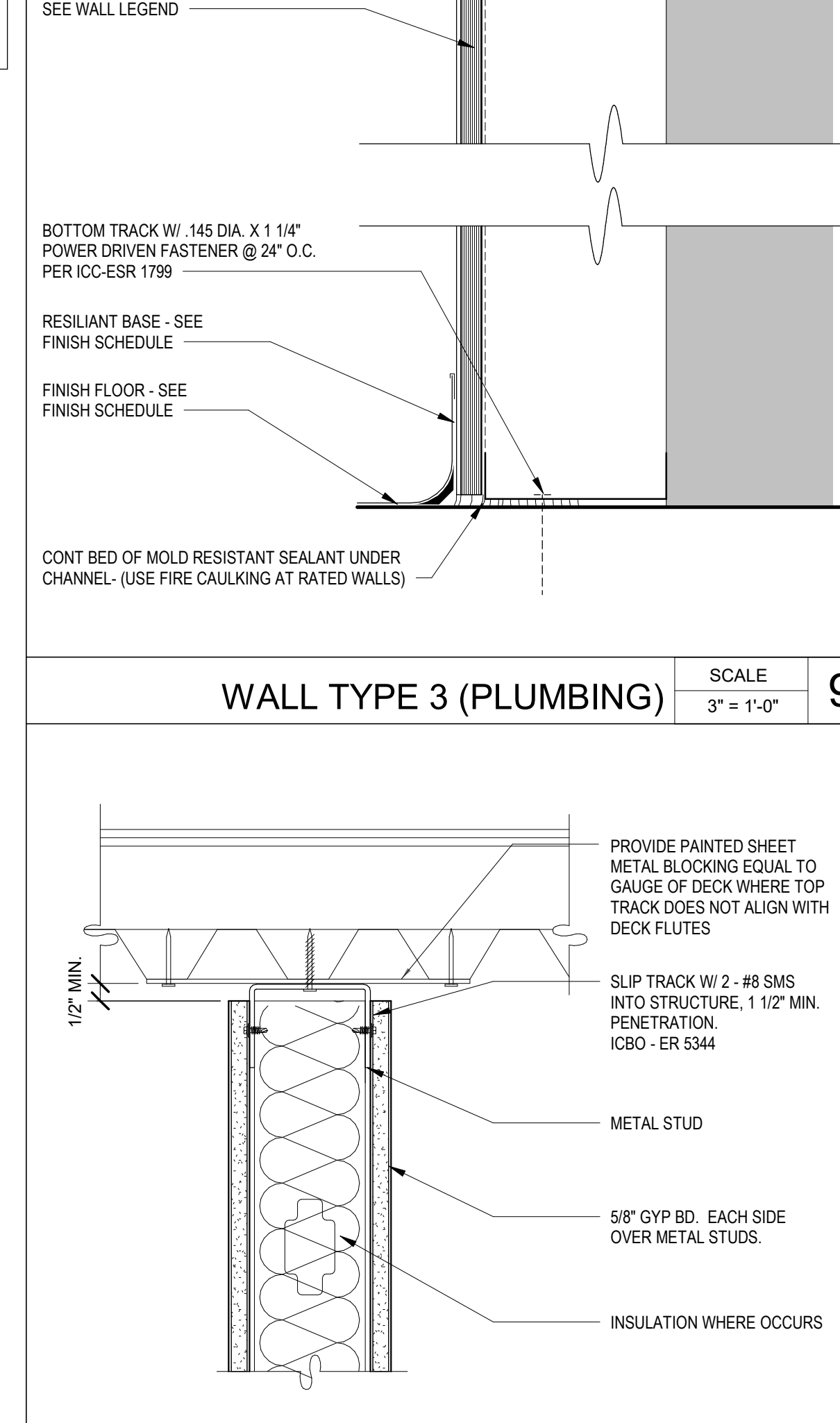
WALL TYPE 2 (FULL HEIGHT) SCALE 3" = 1'-0" **13**



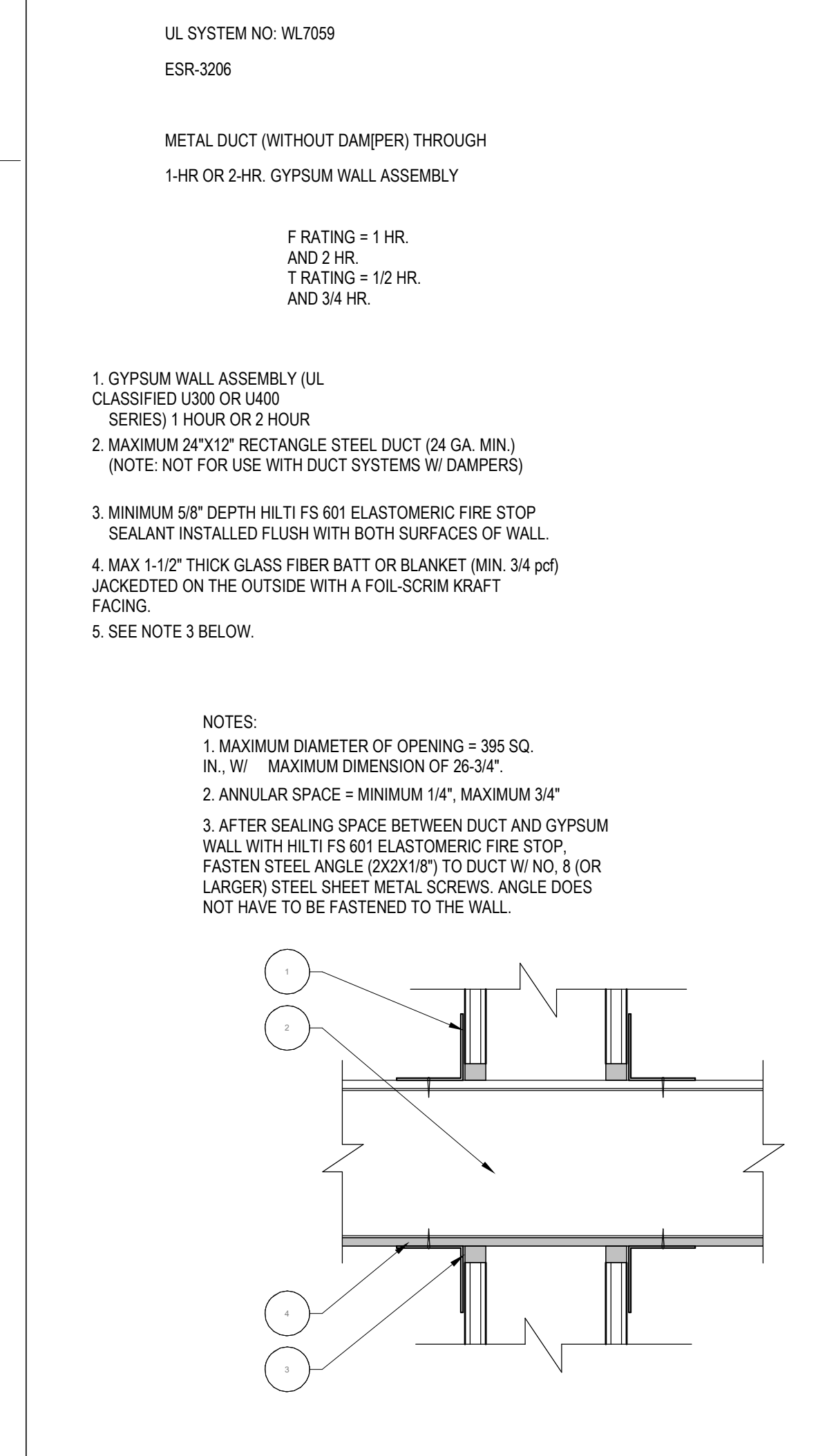
WALL TYPE 1 - WALL BELOW CEILING SCALE 3" = 1'-0" **11**



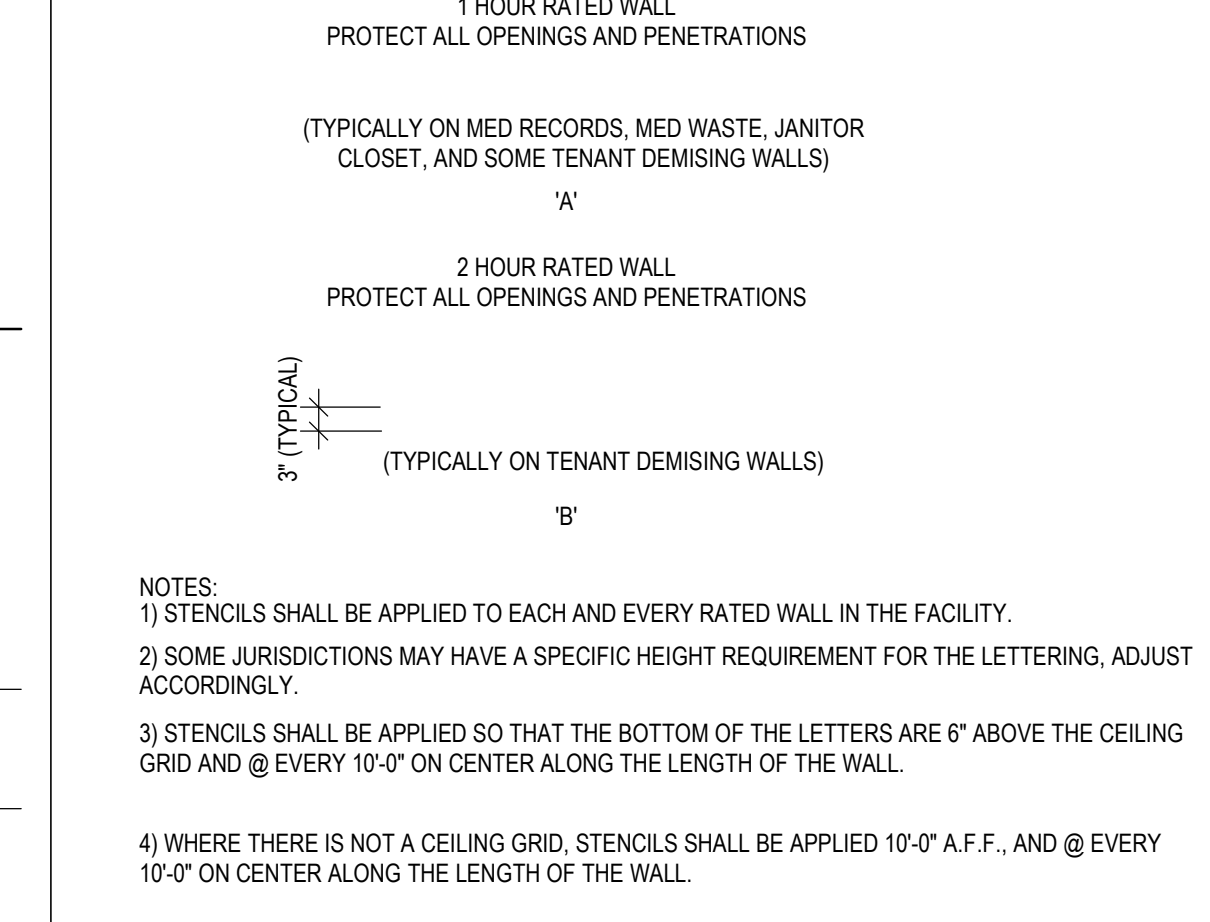
FULL HEIGHT NON-RATED WALL SCALE 3" = 1'-0" **8**



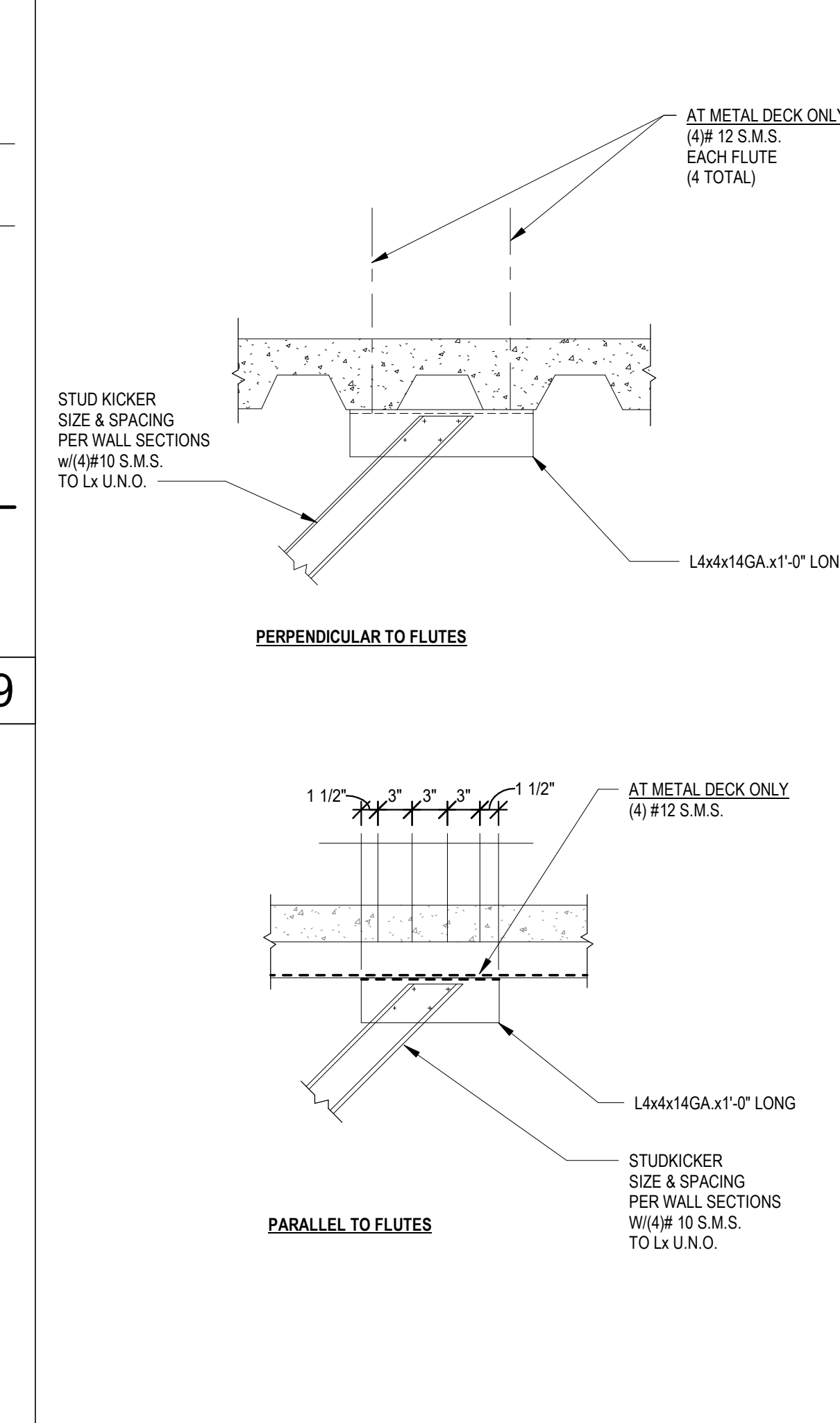
WALL TYPE 3 (PLUMBING) SCALE 3" = 1'-0" **9**



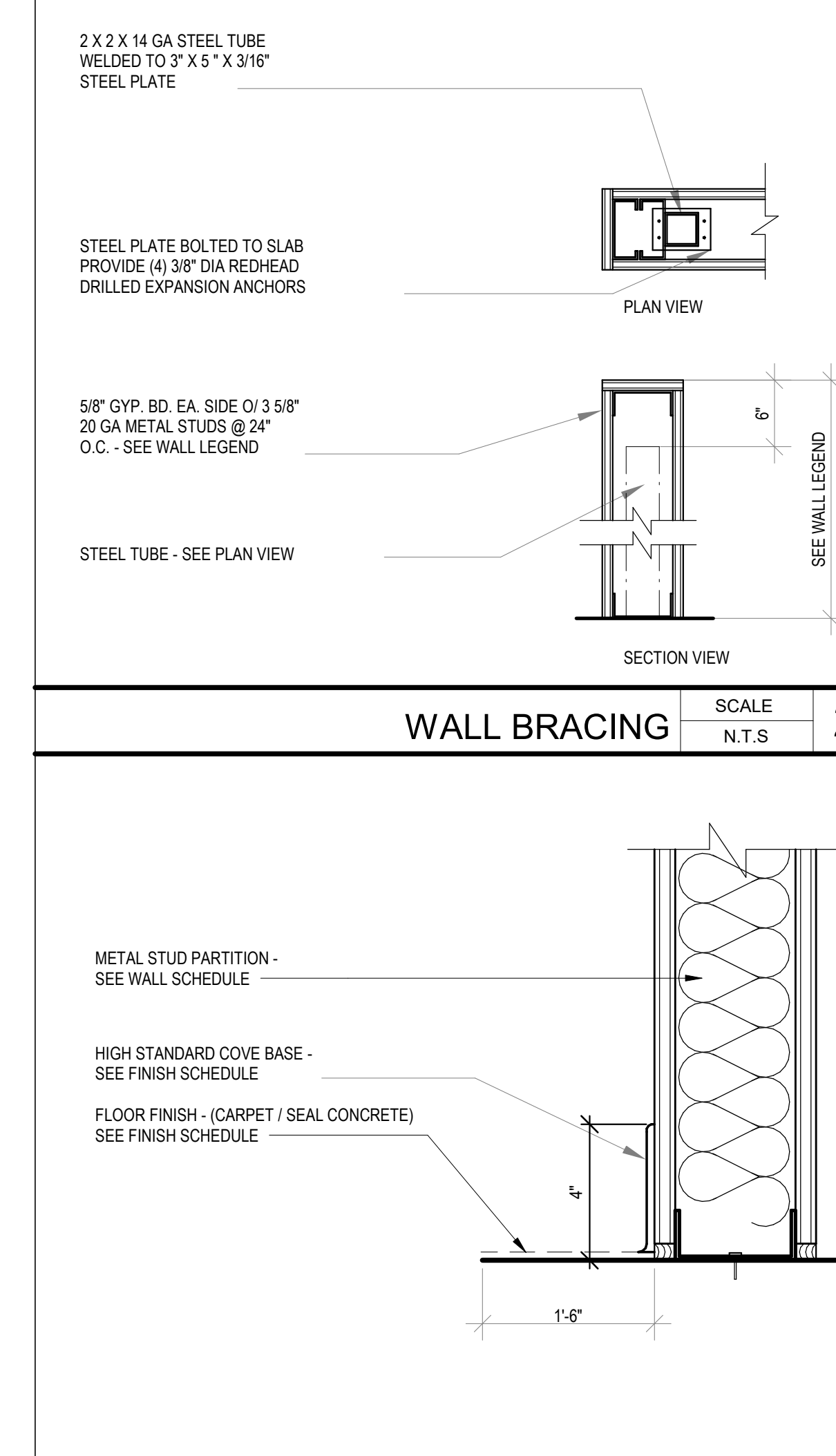
RATED WALL PENETRATION (4) SCALE 3" = 1'-0" **6**



RATED WALLS STENCILING SCALE 1/4" = 1'-0" **5**

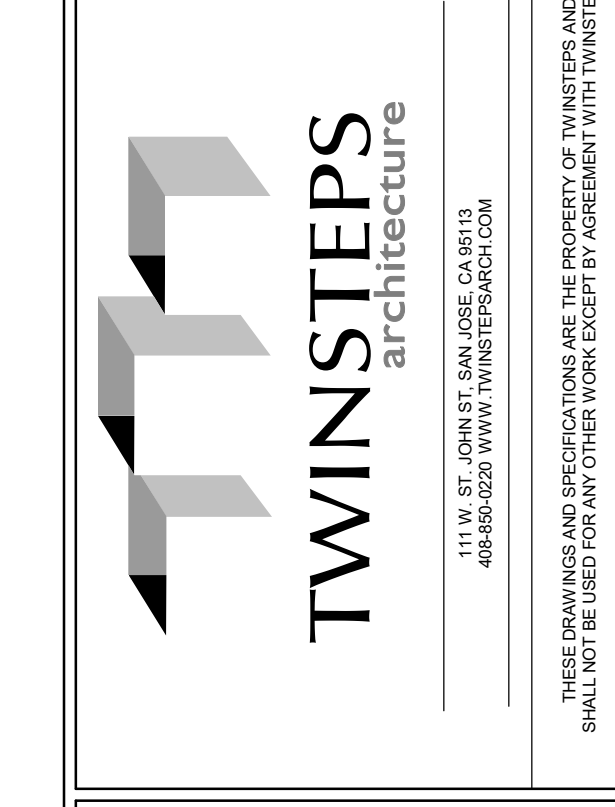


TYP. KICKER TO DECK CONNECTION SCALE 1" = 1'-0" **3**



WALL BRACING SCALE N.T.S. **2**

BASE - CARPET SCALE 3" = 1'-0" **1**



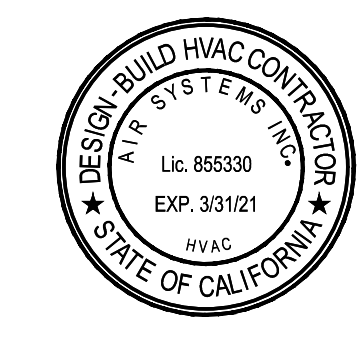
**MOTHER'S ROOM
CONVERSION**
TENANT IMPROVEMENT
325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REV	DATE	DESCRIPTION
1	10/07/2019	PERMIT SET

REMARKS

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO.: SJC-19-048

A4.3



**MOTHER'S ROOM
CONVERSION**
TENANT IMPROVEMENT
325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REV	DATE	REMARKS
1.	03/27/2020	REVISIONS PER PLAN CHECK COMMENTS

GOOGLE, INC.
1212 BORDEAUX DRIVE
SUNNYVALE, CA 94089
**MECHANICAL SYMBOLS
AND ABBREVIATIONS**

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO.: SJC-19-048

MO.00

SHEET INDEX

- M0.00 MECHANICAL SYMBOLS AND ABBREVIATIONS
M0.01 MECHANICAL TITLE 24
M2.01 MECHANICAL FLOOR PLAN, ROOF PLAN, SCHEDULES, AND DETAILS
- SHEET NUMBERING KEY**
X X X X X
AREA DESIGNATOR (IF REQUIRED)
FLOOR LEVEL (PLANS), CONSECUTIVE NUMBER (NON-PLAN SHEETS)
CONSECUTIVE NUMBER (NON-PLAN SHEETS)
TYPE DESIGNATOR (PLANS, SECTIONS, DETAILS, ETC.)
DISCIPLINE (MECHANICAL, PLUMBING, ETC.)
- | DISCIPLINE LEGEND | SHEET TYPE LEGEND | AREA LEGEND |
|----------------------|-----------------------|----------------------------|
| M MECHANICAL | 1 SITE (PLANS) | 1,2,3, etc. (SEE KEY PLAN) |
| MP MECHANICAL PIPING | 2 FLOOR (PLANS) | |
| P PLUMBING | 3 SCHEDULES | |
| PP PROCESS PIPING | 4 ENLARGED PLANS | |
| XD DEMO | 5 SECTIONS & DIAGRAMS | |
| | 6 DETAILS | |
| | 7 CONTROLS | |

SCOPE OF WORK

TENANT IMPROVEMENT PROJECT FOR MOTHER'S ROOM ADDITION ON A SINGLE STORY BUILDING.

GENERAL NOTES

- A. ALL INSTALLATIONS SHALL COMPLY WITH THE CURRENT EDITION OF THE CALIFORNIA MECHANICAL CODE, CALIFORNIA ENERGY CODE, CALIFORNIA TITLE 24, AND LOCAL MUNICIPAL CODES.
- B. ALL MATERIAL EXPOSED WITHIN THE DUCT OR PLENUM, OR APPLIED TO THE EXTERIOR OF THE DUCTS, SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPMENT RATING OF NOT MORE THAN 50 PER CMC SECTION 802.2 AND 904.
- C. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND PROPERLY LABELED PER CMC SECTION 116.0.
- D. ALL DUCTS SHALL BE CONSTRUCTED AND INSTALLED PER CMC SECTION 602. ALL EXPOSED DUCTS SHALL BE GALVANIZED STEEL 24 GAUGE OR THICKER. ALL FLEXIBLE DUCT IS INSULATED WIRE FLEX.
- E. FACTORY MADE AIR DUCTS, IF USED, SHALL BE LISTED CLASS 0 OR CLASS 1 AIR DUCTS.
- F. ALL COMBINATION FIRE/SMOKE DAMPERS SHALL BE LISTED UL 555 1-1/2 HOUR RATED FOR USE IN 1 HOUR AND 2 HOUR PARTITIONS. INSTALLATION MANUAL FOR THE COMBINATION FIRE/SMOKE DAMPERS SHALL BE AVAILABLE IF REQUESTED BY THE CITY INSPECTOR AT THE JOB SITE.
- G. RETURN AIR FILTERS WITH A MERV8 VALUE SHALL USED DURING CONSTRUCTION IF THE PERMANENT HVAC SYSTEMS SHALL BE USED FOR VENTILATION DURING CONSTRUCTION. REPLACE THE FILTERS IMMEDIATELY PRIOR TO OCCUPANCY PER 2016 CAL GREEN CODE SECTION 5.504.1.3
- H. ALL DUCT DIMENSIONS INDICATED ON DRAWINGS ARE NET CLEAR INSIDE DIMENSIONS.
- J. PROVIDE MANUAL DAMPERS AT ALL DUCT BRANCH TAKEOFFS TO A SINGLE OUTLET OR INLET.
- K. ALL THERMOSTATS SHALL BE LOCATED AT 48" ABOVE FINISHED FLOOR AND COMPLY WITH ADA REQUIREMENTS.

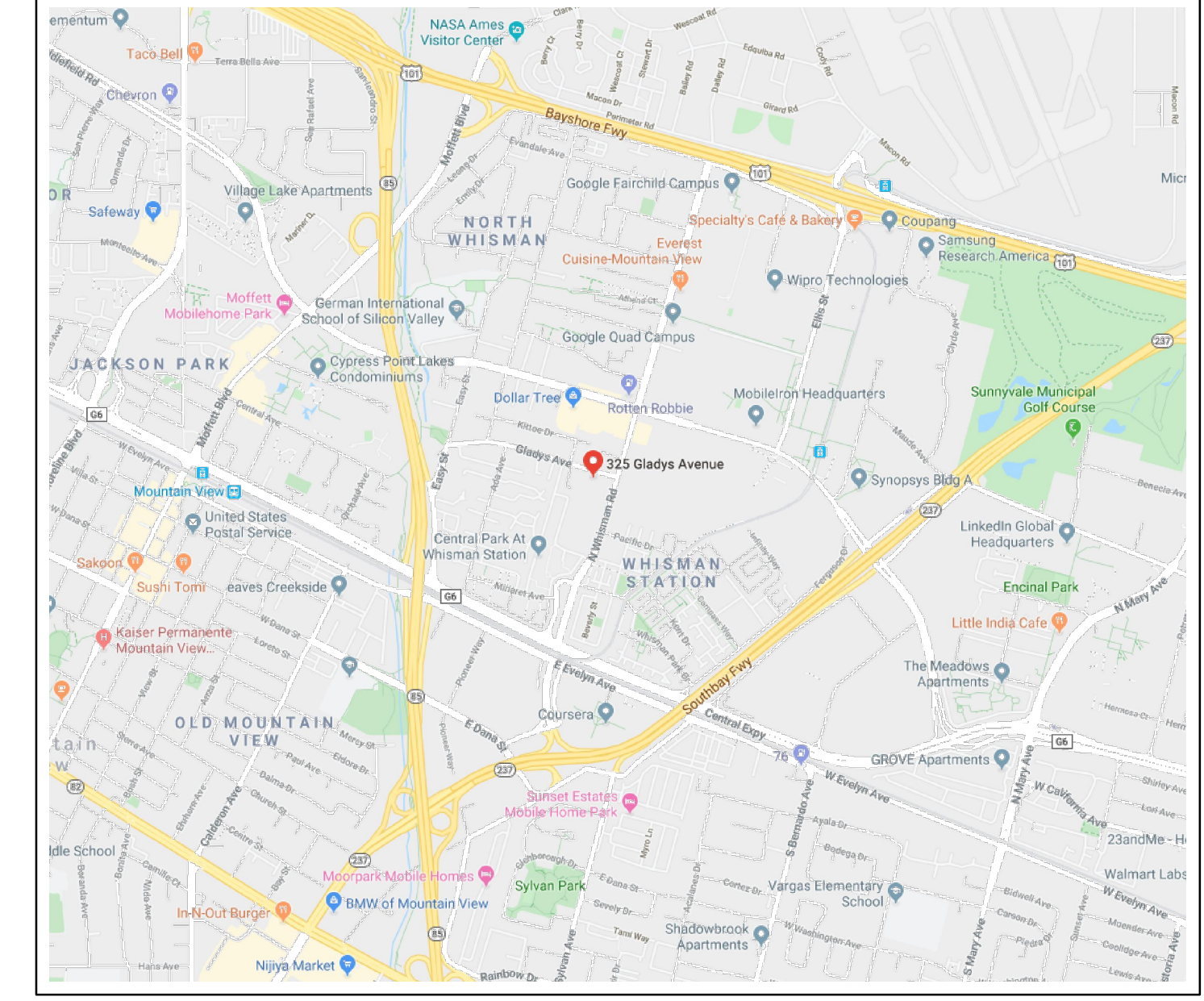
ABBREVIATIONS

AAV AUTOMATIC AIR VENT	IPLV INTEGRATED PART LOAD VALUE
ABV ABOVE	KW KILOWATTS
AD ACCESS DOOR	KWH KILOWATT HOURS
AFF ABOVE FINISHED FLOOR	LAT LEAVING AIR TEMPERATURE
AFFUE ANNUAL FUEL UTILIZATION EFFICIENCY	LBS POUNDS
AL ACOUSTICAL LINER	LWB LEAVING WET BULB TEMPERATURE
BDD BACKDRAFT DAMPER	LWT LEAVING WATER TEMPERATURE
BELOW BELOW	MAT MIXED AIR TEMPERATURE
BF BLIND FLANGE	MAX MAXIMUM
BFP BACK FLOW PREVENTER	MBH THOUSAND BTU PER HOUR
BHP BRAKE HORSEPOWER	MCA MINIMUM CIRCUIT AMPS
BMS BUILDING MANAGEMENT SYSTEM	MEV MINIMUM EFFICIENCY REPORTING VALUE
BOD BOTTOM OF DUCT	MFR MANUFACTURER
BOP BOTTOM OF PIPE	MFS MAXIMUM FUSE SIZE
BTU BTU PER HOUR	MIN MINIMUM
CAP CAPACITY	MOCP MAXIMUM OVERCURRENT PROTECTION
CAV CONSTANT AIR VOLUME	(N) NEW
CAF CAP FOR FUTURE	NC NORMALLY CLOSED
CFM CUBIC FEET PER MINUTE	NFA NET FREE AREA
CLG CLEAN OUT	NMC NOT IN MECHANICAL CONTRACT
CO CARBON MONOXIDE	NO NORMALLY OPEN
CO2 CARBON DIOXIDE	NPLV NON-STANDARD PART LOAD VALUE
COP COEFFICIENT OF PERFORMANCE	NTS NOT TO SCALE
CTE CONNECT TO EXISTING	OA OUTSIDE AIR
OB DRY BULB	OADB OUTSIDE AIR DRY BULB TEMPERATURE
DIA DIAMETER	OAWB OUTSIDE AIR WET BULB TEMPERATURE
DN DOWN	OCC OCCUPIED
DX DIRECT EXPANSION	PD PRESSURE DROP
(E) EXISTING	POC POINT OF CONNECTION
EA EXHAUST AIR	POU POINT OF USE
EAT ENTERING AIR TEMPERATURE	PSI POUNDS PER SQUARE INCH
EEER ENERGY EFFICIENCY RATIO	PSIG POUNDS PER SQUARE INCH (GAUGE)
EFF EFFICIENCY	QTY QUANTITY
EJ EXPANSION JOINT	(RL) RELOCATED
ESP EXTERNAL STATIC PRESSURE	RA RETURN AIR
EWB ENTERING WET BULB TEMPERATURE	RH RELATIVE HUMIDITY
EWT ENTERING WATER TEMPERATURE	RPM REVOLUTIONS PER MINUTE
(F) FUTURE	SA SUPPLY AIR
FBO FURNISHED BY OTHERS	SEER SEASONAL ENERGY EFFICIENCY RATIO
FC FLEXIBLE CONNECTION	SEER SENSIBLE
FD FIRE DAMPER	SM SHEET METAL
FSD FIRE/SMOKE DAMPER	SP STATIC PRESSURE
FF FINISHED FLOOR	TSP TOTAL STATIC PRESSURE
FLA FULL LOAD AMPS	TV TURNING VANE
FLR FLOOR	TYP TYPICAL
FPI FINS PER INCH	UON UNLESS OTHERWISE NOTED
FPM FEET PER MINUTE	V VOLTS
FT FEET	VAV VARIABLE AIR VOLUME
FT2 SQUARE FEET	VFD VARIABLE FREQUENCY DRIVE
GND GROUND	VI VIBRATION ISOLATION
GPM GALLONS PER MINUTE	W WITH
HP HORSEPOWER	WB WET BULB
HR HOUR	WC WATER COLUMN
IQA INDOOR AIR QUALITY	WPD WATER PRESSURE DROP (of H2O)
ID INSIDE DIMENSIONS	
IN INCHES	
IN WC INCHES WATER COLUMN	

HVAC SYMBOLS

- ☒ SUPPLY AIR DIFFUSER (SD)
- ☒ RETURN AIR GRILLE (RG)
- ☒ EXHAUST AIR GRILLE (EG)
- ↺ DIFFUSER THROW, 3-WAY INDICATED
- ↻ SIDEWALL SUPPLY AIR DIFFUSER (SWD)
- ↻ SIDEWALL RETURN AIR GRILLE (SWG)
- REG REGISTER TAG (REGISTER CFM)
- ↑ SUPPLY DUCT RISER
- ↓ RETURN DUCT RISER
- ↻ ROUND DUCT RISER
- DUCT, WIDTH X DEPTH (PLAN VIEW)
- DUCT, DIAMETER (PLAN VIEW) - ALUMAFLEX
- DUCT, DIAMETER (PLAN VIEW) - HARD SPIRAL
- NEW DUCT (DARK)
- ACOUSTICAL LINED DUCT, DIMENSIONS ARE NET INSIDE
- EXISTING DUCT (LIGHT)
- SUPPLY DUCT
- RETURN DUCT
- EXHAUST DUCT
- DEMOLITION INDICATED BY X's
- SQUARE TO ROUND DUCT TRANSITION
- RECTANGULAR DUCT ELBOW WITH TURNING VANES
- ROUND DUCT ELBOW
- RECTANGULAR DUCT ELBOW WITH FULL RADIUS TURNING VANES
- SINGLE INLET VAV BOX WITH SQUARE TO ROUND
- SINGLE INLET VAV BOX WITH HEATING COIL
- DOUBLE DUCT INLET VAV BOX WITH SQUARE TO ROUND
- VAV BOX WITH SOUND ATTENUATOR
- FAN COIL UNIT
- MANUAL VOLUME DAMPER (MD)
- MOTORIZED CONTROL DAMPER
- BACK DRAFT DAMPER
- FIRE DAMPER
- COMBINATION FIRE/SMOKE DAMPER
- ZONE DAMPER
- THERMOSTAT (WITH ID TAG)
- HUMIDITY SENSOR
- CARBON MONOXIDE SENSOR
- CARBON DIOXIDE SENSOR
- PRESSURE SENSOR
- DIFFERENTIAL PRESSURE SENSOR

VICINITY MAP



PIPING SYMBOLS

- CHWS CHILLED WATER SUPPLY
- CHWR CHILLED WATER RETURN
- CR CONDENSATE RETURN (STEAM)
- CO CONDENSATE DRAIN (COLS)
- G GAS (NATURAL)
- HHWS HEATING HOT WATER SUPPLY
- HHWR HEATING HOT WATER RETURN
- CWS CONDENSER WATER SUPPLY
- CWR CONDENSER WATER RETURN
- DCW DOMESTIC COLD WATER
- SAN SANITARY WASTE
- ICW INDUSTRIAL COLD WATER
- DI DEIONIZED WATER
- RO REVERSE OSMOSIS WATER
- V VENT
- SD STORM DRAIN
- A COMPRESSED AIR
- VAC WET HOUSE CLEANING VACUUM (5" HG. NOM.)
- SLOPE LINE DOWN IN DIRECTION OF ARROW
- PIPE ANCHOR
- ALIGNMENT GUIDE
- STRAINER W/BLOW DOWN
- BASKET STRAINER
- FLEX CONNECTION
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- UNION
- MANUAL AIR VENT
- AUTOMATIC AIR VENT
- SENSOR WELL
- PRESSURE/TEMPERATURE PORT
- THERMOMETER
- PRESSURE GAUGE
- SUCTION DIFFUSER
- FLOW SWITCH
- FLOW METER
- PLUG VALVE
- SOLENOID VALVE
- BUTTERFLY VALVE
- TEMPERATURE CONTROL VALVE
- DIAPHRAGM VALVE
- QUICK CLOSE VALVE
- GATE VALVE
- GLOBE VALVE
- BALL VALVE
- TEMPERATURE/PRESSURE RELIEF VALVE
- NEEDLE VALVE
- CHECK VALVE
- BALANCE VALVE
- TRIPLE DUTY VALVE (CHECK, BALANCE, ISOLATION VALVE)
- PRESSURE REDUCING VALVE
- PNEUMATIC OPERATOR
- ELECTRIC MOTOR OPERATOR
- OUTSIDE SCREW & YOKE GATE VALVE
- FLOAT CONTROLLED VALVE

DRAFTING SYMBOLS

- ↑ NORTH ARROW
- SECTION NO. / SHEET NO.
- DETAIL NO. / SHEET NO.
- SHEET NOTE REFERENCE TAG
- EQUIPMENT TAG
- SERVICE
- POINT OF CONNECTION
- POINT OF DISCONNECTION
- REVISION CLOUD WITH IDENTIFIER

CALGREEN NEW CONSTRUCTION MANDATORY MEASURES

MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

5.408.1 CONSTRUCTION WASTE MANAGEMENT. RECYCLE AND/OR REUSE OF A MINIMUM OF 50% OF NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH THE SECTION 5.408.1.1, 5.408.1.2, OR 5.408.1.3, OR MEET A LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS GREATER.

5.408.1.1 CONSTRUCTION WASTE MANAGEMENT PLAN. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL CONTAIN THE FOLLOWING INFORMATION ABOUT THE DEMOLITION AND CONSTRUCTION WASTE MATERIAL: WHERE THE WASTE WILL BE TAKEN, HOW THE AMOUNT OF WASTE WILL BE MEASURED, HOW THE WASTE WILL BE DIVERTED FROM DISPOSAL, AND THE METHOD IN WHICH THE WASTE MATERIAL WILL BE SORTED.

5.408.1.2 WASTE MANAGEMENT COMPANY. UTILIZE A WASTE MANAGEMENT COMPANY THAT CAN PROVIDE VERIFIABLE DOCUMENTATION THAT THE PERCENTAGE OF CONSTRUCTION AND DEMOLITION WASTE MATERIAL DIVERTED FROM LANDFILL COMPLIES WITH STANDARD 5.408.1.

5.408.1.3 WASTE STREAM REDUCTION ALTERNATIVE. THE COMBINED WEIGHT OF NEW CONSTRUCTION DISPOSAL DOES NOT EXCEED 2 LBS/SQFT OF THE BUILDING.

5.408.1.4 DOCUMENTATION. DOCUMENTATION DEMONSTRATING THE COMPLIANCE OF STANDARD 5.408.1 SHALL BE PROVIDED TO THE ENFORCING AGENCY.

BUILDING MAINTENANCE AND OPERATION

5.410.2 COMMISSIONING. COMMISSIONING REQUIREMENTS SHALL INCLUDE THE ITEMS LISTED IN SECTION 5.401.2 FOR BUILDINGS 10,000 SQFT AND OVER.

5.410.2.1 OWNER'S PROJECT REQUIREMENTS (OPR). THE OPR SHALL CONTAIN THE EXPECTATIONS AND REQUIREMENTS OF THE BUILDING BEFORE THE DESIGN PHASE OF THE PROJECT BEGINS AND SHALL INCLUDE THE ITEMS LISTED IN SECTION 5.410.2.1

5.410.2.2 BASIS OF DESIGN (BOD). THE BOD EXPLAINS HOW THE BUILDING SYSTEM WILL MEET OPR SPECIFICATIONS AND SHALL INCLUDE THE ITEMS LISTED IN SECTION 5.410.2.2

5.410.2.3 COMMISSIONING PLAN. COMPLETED PRIOR TO PERMIT ISSUE. IT SHALL DOCUMENT HOW THE PROJECT WILL BE COMMISSIONED AND INCLUDE THE ITEMS LISTED IN 5.410.1.3.

5.410.2.4 FUNCTIONAL PERFORMANCE TESTING. DEMONSTRATE THE CORRECT INSTALLATION AND OPERATION OF EACH COMPONENT, SYSTEM-TO-SYSTEM INTERFACE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.

5.410.2.5 DOCUMENTATION AND TRAINING. A SYSTEM MANUAL SHALL BE PROVIDED CONTAINING OPERATION ASPECTS OF THE BUILDING AND THE ITEMS LISTED IN SECTION 5.410.2.5.1. A SYSTEMS OPERATIONS TRAINING PROGRAM SHALL BE PROVIDED TO THE MAINTENANCE STAFF FOR EACH EQUIPMENT AND/OR SYSTEM AND WILL INCLUDE THE ITEMS IN SECTION 5.410.2.5.2.

5.410.2.6 COMMISSIONING REPORT. THE COMMISSIONING REPORT SHALL CONTAIN PROCESSES OF ACTIVITIES THROUGHOUT THE DESIGN AND CONSTRUCTION PHASES.

5.410.4 TESTING AND ADJUSTING. TESTING AND ADJUSTING SHALL BE PROVIDED FOR BUILDINGS UNDER 10,000 SQFT AND NEW SYSTEMS TO SERVE IN AN ADDITION OR ALTERATION TO SECTION 303.1.

5.410.4.2 SYSTEMS. A WRITTEN PLAN OF PROCEDURES FOR TESTING AND ADJUSTING SYSTEMS. IT SHALL INCLUDE THE ITEMS LISTED IN 5.410.2.

5.410.4.3 PROCEDURES. PERFORM TESTING AND ADJUSTING PROCEDURES IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS. THE HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE TO THE ENFORCING AGENCY.

5.410.4.4 REPORTING. A FINAL REPORT OF TESTING SHALL BE SIGNED BY THE INDIVIDUAL RESPONSIBLE FOR PERFORMING THESE SERVICES.

5.410.4.5 OPERATION AND MAINTENANCE (O&M) MANUAL. PROVIDE THE BUILDING OWNER WITH DETAILED OPERATING AND MAINTENANCE INSTRUCTIONS, AND COPIES OF GUARANTEES/WARRANTIES FOR EACH SYSTEM. INCLUDE A COPY OF ALL INSPECTION VERIFICATIONS AND REPORTS REQUIRED BY THE ENFORCING AGENCY.

POLLUTANT CONTROL

5.404.1 TEMPORARY VENTILATION. IF HVAC SYSTEM IS USED DURING CONSTRUCTION USE MERV 8 AIR FILTERS OR AIR FILTERS WITH AN AVERAGE OF 30% BASED ON ASHRAE 52.1-1992. REPLACE ALL FILTERS IMMEDIATELY PRIOR TO OCCUPANCY.

5.404.3 COVERING ALL DUCT OPENINGS AND PROTECTION OF MECHANICAL EQUIPMENT. ALL DUCT AND OTHER AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH METHODS ACCEPTABLE TO THE ENFORCING AGENCY DURING STORAGE AND ROUGH INSTALLATION ON THE CONSTRUCTION SITE UNTIL FINAL STARTUP OF HVAC EQUIPMENT.

5.504.1.1 ADHESIVES, SEALANTS AND CAULKS. ADHESIVES, SEALANTS AND CAULKS SHALL FOLLOW VOC LIMITS SHOWN IN TABLE 5.504.4.2 AND 5.504.4.3, OR LOCAL OR REGIONAL AIR POLLUTION CONTROL OR AIR QUALITY DISTRICT RULES. AEROSOL ADHESIVES AND ADHESIVES, SEALANTS OR CAULKING WEIGHING NO MORE THAN A POUND AND DO NOT CONSIST MORE THAN 16OZ SHALL COMPLY WITH VOC STANDARDS AND CALIFORNIA CODE OF REGULATIONS, TITLE 17.

5.504.1.3 PAINTS AND COATINGS. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 5.504.4.4, UNLESS MORE STRINGENT LOCAL LIMITS APPLY.

5.504.5.3 FILTERS. MERV 8 FILTERS OR BETTER MUST BE INSTALLED IN ALL MECHANICALLY VENTILATED BUILDINGS PRIOR TO OCCUPANCY.

INDOOR MOISTURE CONTROL

5.505.1 INDOOR MOISTURE CONTROL. BUILDINGS SHALL MEET OR EXCEED THE PROVISIONS OF CALIFORNIA BUILDING CODE, COR, TITLE 24, PART 2 SECTIONS 1203 AND CHAPTER 14.

INDOOR AIR QUALITY

5.506.1 OUTSIDE AIR DELIVERY. FOR ALL VENTILATED SPACES IN BUILDINGS MEET THE REQUIREMENTS OF SECTION 1201.1 OF THE 2016 CALIFORNIA ENERGY CODE, OR THE APPLICABLE LOCAL CODE, WHICHEVER IS MORE STRINGENT, AND DIVISION 1, CHAPTER 4 OF COR, TITLE 8.

5.506.2 CARBON DIOXIDE (CO2) MONITORING. CO2 SENSORS AND VENTILATION CONTROLS SHALL BE SPECIFIED AND INSTALLED IN ACCORDANCE WITH THE 2013 CALIFORNIA ENERGY CODE, SECTION 120(C)(4).

OUTDOOR AIR QUALITY

5.508.1.1 CHLOROFLUOROCARBONS (CFCs). INSTALL HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN CFCs.

5.508.1.2 HALONS. INSTALL HVAC REFRIGERATION AND FIRE SUPPRESSION EQUIPMENT THAT DO NOT CONTAIN HALONS.

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 2 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

Table with 9 columns (D1-D9) and rows for Project Location, Climate Zone, Occupancy Types, and Compliance Results.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 4 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

Table with 17 columns (D1-D17) for Mechanical Ventilation Required and Compliance Results.

FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system. Air filtration requirements apply to the following three system types per §120.1(c)(16): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 7 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

Table with 4 columns (YES, NO, Field Inspector Pass/Fail) for verification of required certificates.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 2 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

Table with 11 columns (D1-D11) for HVAC System Summary (Dry & Wet Systems).

FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §140.6(i). Healthcare facilities are exempt.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 2 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

Table with 2 columns (YES, NO) for Terminal Box Controls.

Table with 2 columns (YES, NO) for Distribution (Ductwork and Piping).

Table with 2 columns (YES, NO) for Cooling Towers.

Table with 2 columns (YES, NO) for Declaration of Required Certificates of Installation.

Table with 2 columns (YES, NO) for Declaration of Required Certificates of Acceptance.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 7 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

Table with 2 columns (YES, NO) for Mandatory Measures Documented through MCH.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 3 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

Table with 9 columns (D1-D9) for Dry System Equipment Efficiency.

Table with 9 columns (D1-D9) for Fan Systems & Air Economizers.

Table with 9 columns (D1-D9) for System Controls.

FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 8 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

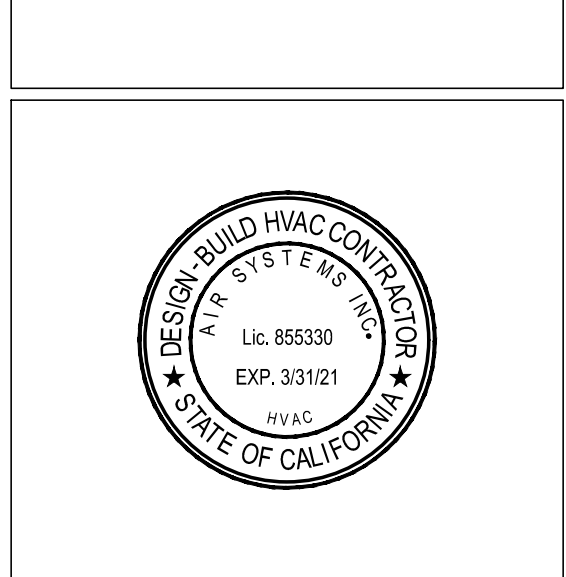
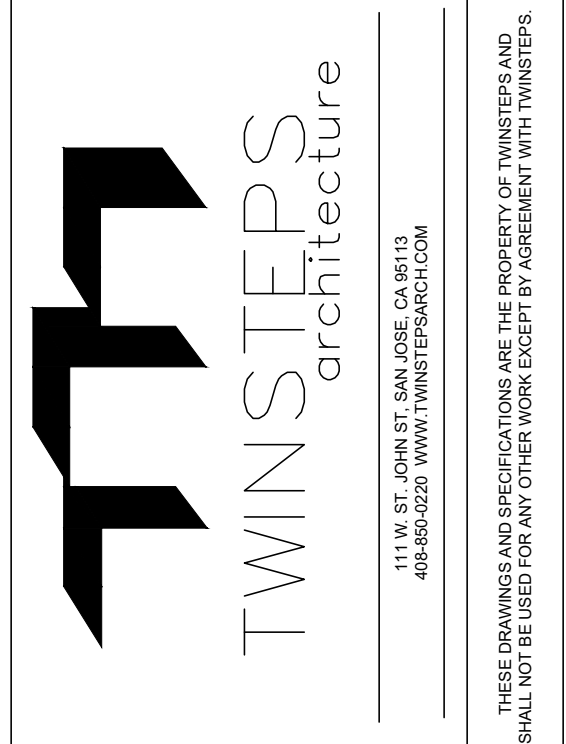
Table with 2 columns (YES, NO) for various HVAC equipment compliance items.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019

STATE OF CALIFORNIA Mechanical Systems Mechanical Systems NRC-MCH-E (Issued 11/19) CERTIFICATE OF COMPLIANCE PROJECT NAME: CW325 Gladys Mothers Room REPORT PAGE: Page 9 of 9 PROJECT ADDRESS: 325 Gladys Avenue Mountain View CA 94043 DATE PREPARED: 1/14/20

Table with 2 columns (YES, NO) for Declaration of Required Certificates of Acceptance.

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: http://www.energy.ca.gov/01624/2019standards/ November 2019



MOTHER'S ROOM CONVERSION TENANT IMPROVEMENT 325 GLADYS AVENUE MOUNTAIN VIEW, CA 94043

REMARKS table with columns for REV, DATE, and REVISIONS PER PLAN CHECK COMMENTS.

Project information form including DATE, P.M., DRAWN BY, JOB NO., and a large MO.01 label.

SPLIT SYSTEM INDOOR UNIT AND OUTDOOR UNIT SCHEDULE

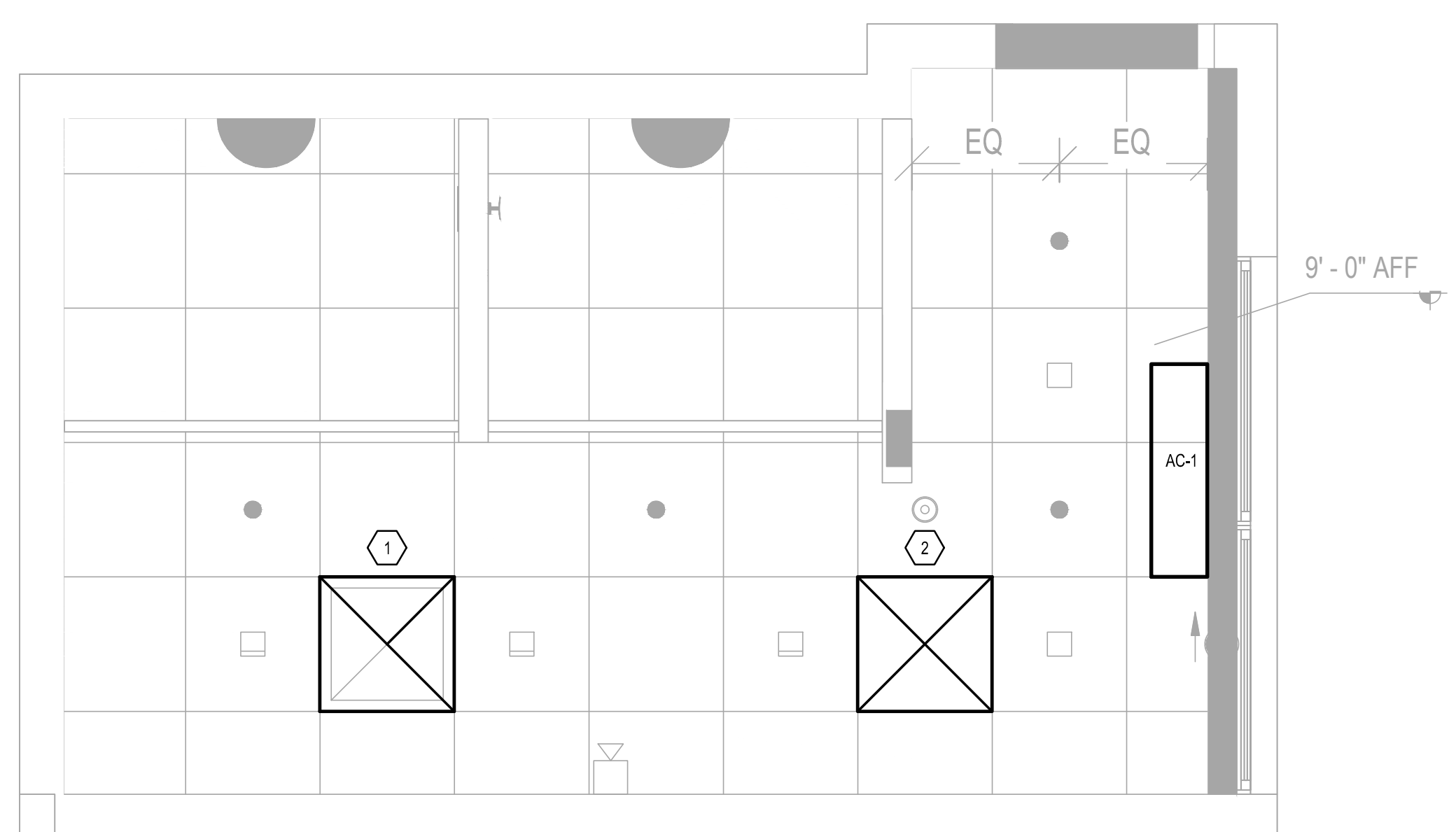
TAG	NEW OR EXISTING	MANUFACTURER	INDOOR MODEL NO.	LOCATION	NOMINAL CAPACITY (TONS)	AIR SIDE					ELECTRICAL REQUIREMENTS				OPERATING WEIGHT (LBS)	TAG	MANUFACTURER	OUTDOOR MODEL NO.	LOCATION	NOMINAL CAPACITY (TONS)	SEER	REFRIGERANT	COMPRESSOR				ELECTRICAL REQUIREMENTS				OPERATING WEIGHT (LBS)	
						CFM	ESP ("OF H ₂ O)	W	EAT (°F)		V/PHHZ	FLA	MCA (A)	EMERG. POWER									CAPACITY (MHP)	COMPRESSOR TYPE	COMPRESSOR QTY	AMBIENT TEMP (°F)	AIRFLOW (CFM)	V/PHHZ	MCA	MOCP		EMERG. POWER
									DB	WB																						
AC-1	N	mitsubishi	PKA-A18A7	MOTHER'S ROOM	1.5	350	N/A	30.0	80	67	208/100	0.33	1.0	NO	35	AC-1	mitsubishi	PUZ-A18NKA	ROOF	1.5	18.5	R-410A	18.0	RECIPROCATING	1	95	-	208/100	11.00	28.0	NO	115

PIPING INSULATION THICKNESS REQUIREMENTS

FLUID TEMPERATURE RANGE (°F)	CONDUCTIVITY RANGE (BTU-inch per hour per square foot per °F)	INSULATION MEAN RATING TEMPERATURE (°F)	NOMINAL PIPE DIAMETER (INCHES)				
			< 1	1 to < 1.5	1.5 to < 4	4 to < 8	> 8
			INSULATION THICKNESS REQUIRED (INCHES)				
SPACE COOLING SYSTEMS (CHILLED WATER, REFRIGERANT, AND BRINE)							
40 - 60	0.21 - 0.27	75	0.5	1.0	1.0	1.0	
BELOW 40	0.20 - 0.26	50	1.0	1.5	1.5	1.5	

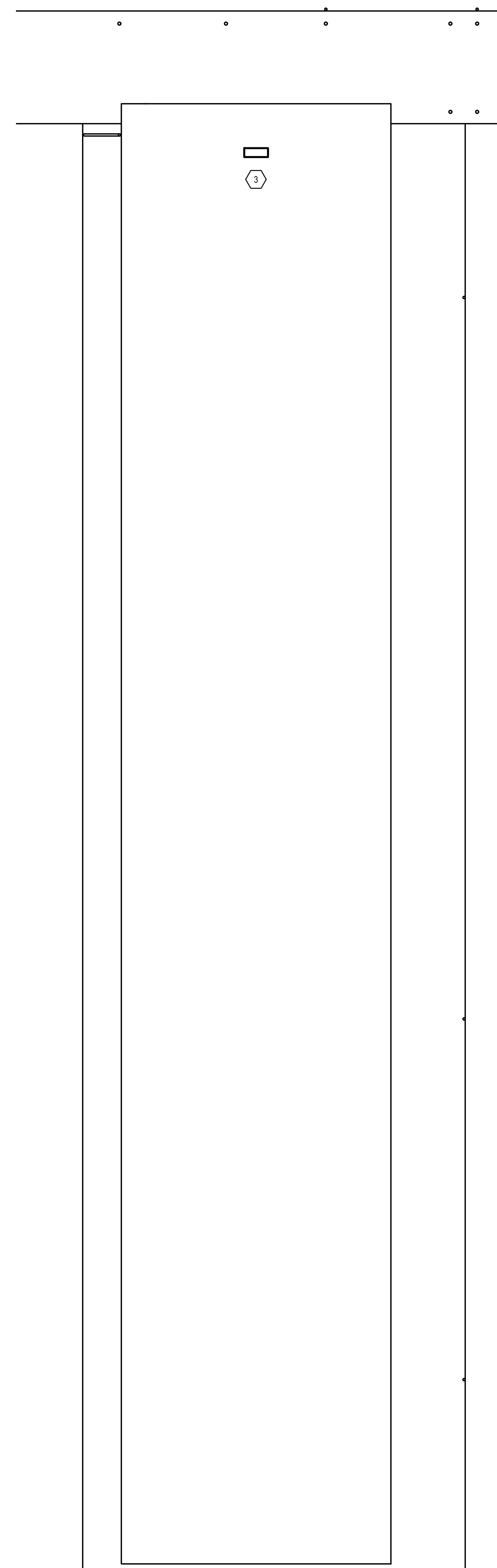
PIPING MATERIAL SCHEDULE

SYSTEM	ABBREVIATION	SIZE	MATERIAL
REFRIGERANT PIPING GAS/LIQUID	REFRIG.	ALL	COPPER TYPE "ACR"
CONDENSATE DRAIN	CD	1-1/4" OR SMALLER	COPPER TYPE "M"



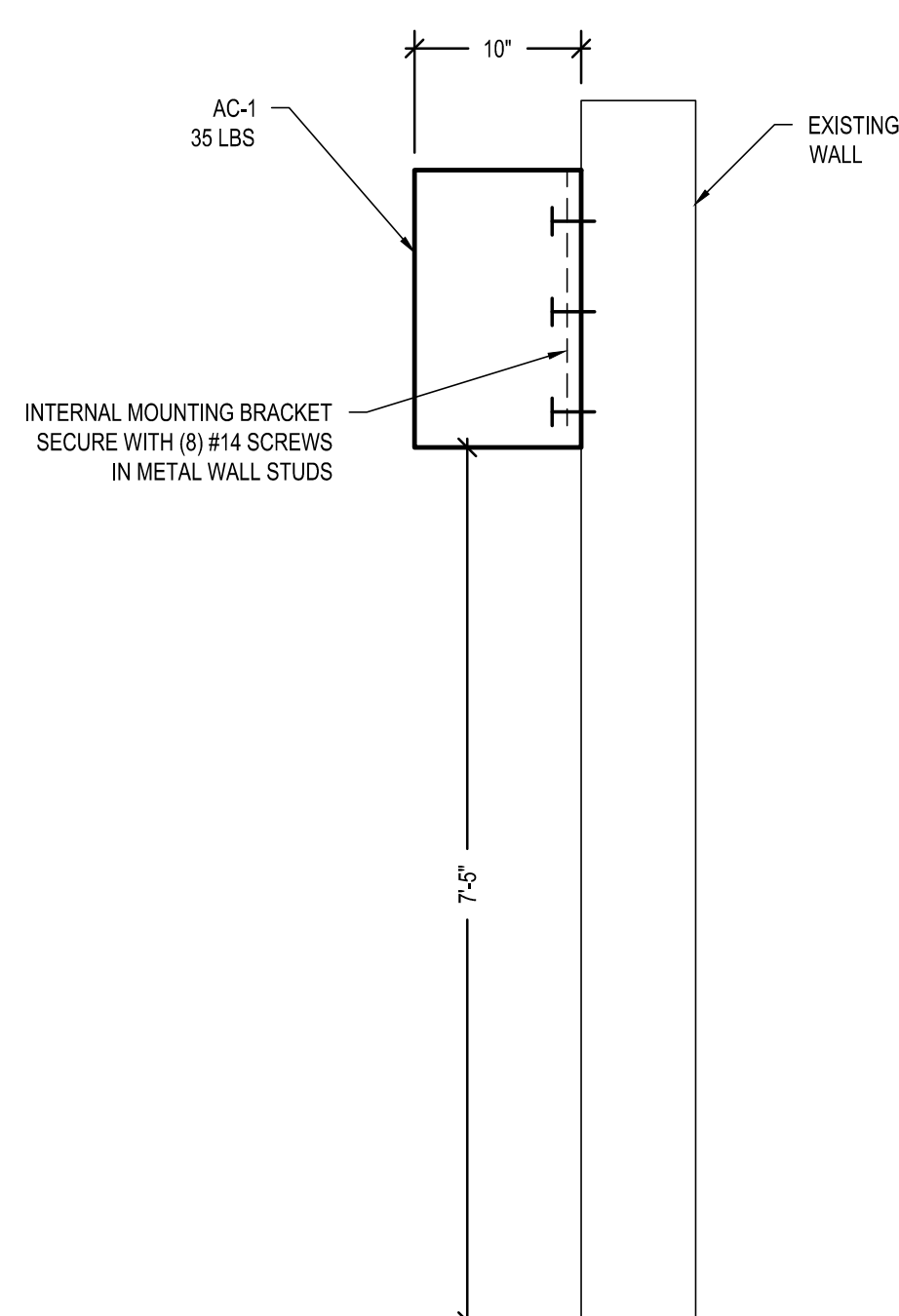
1 MECHANICAL FLOOR PLAN - NEW

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



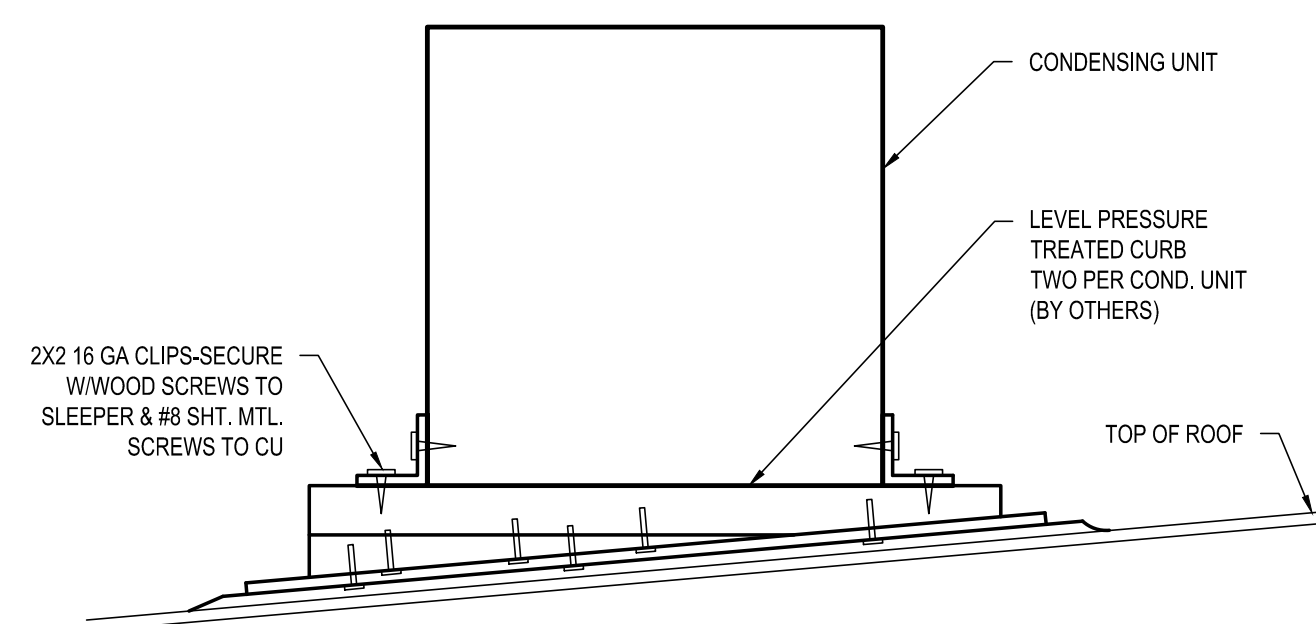
2 MECHANICAL ROOF PLAN - NEW

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



4 WALL MOUNTED UNIT DETAIL

SCALE: NTS



3 5 TON AND SMALLER CONDENSING UNIT ROOF MOUNT DETAIL

SCALE: NTS

GENERAL NOTES:

- A. ONLY THOSE ITEMS SHOWN BOLD ARE PART OF THIS ISSUANCE.
- B. ONLY THOSE KEYNOTES WITH CORRESPONDING TAGS ON THIS DRAWING APPLY.

XX SHEET NOTES:

- 1. CONNECT TO (E) EXHAUST FAN.
- 2. TRANSFER AIR FROM CONDITIONED SPACE.
- 3. SPLIT SYSTEM OUTDOOR UNIT ON ROOF.

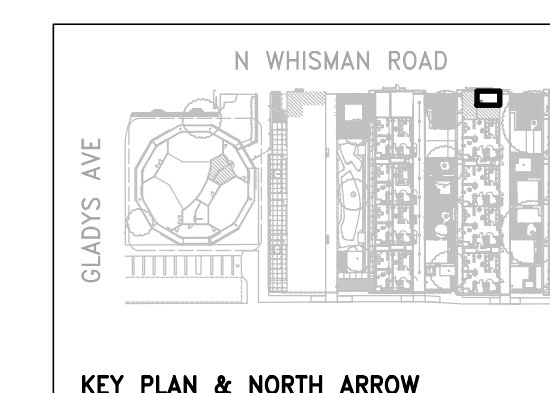


**MOTHER'S ROOM
CONVERSION**
TENANT IMPROVEMENT
325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REV	DATE	REMARKS
1	01/27/2020	REVISIONS PER PLAN CHECK COMMENTS

GOOGLE, INC.
1212 BORDEAUX DRIVE
SUNNYVALE, CA 94089
**MECHANICAL FLOOR PLAN, ROOF PLAN,
SCHEDULES, AND DETAILS**

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO.: SJC-19-048



M2.01

LIGHTING FIXTURE SCHEDULE

Table with columns: TYPE, DESCRIPTION, MANUFACTURER, VOLTAGE, WATTS, NOTES. Includes rows D1, D1E, F1, WS, X.

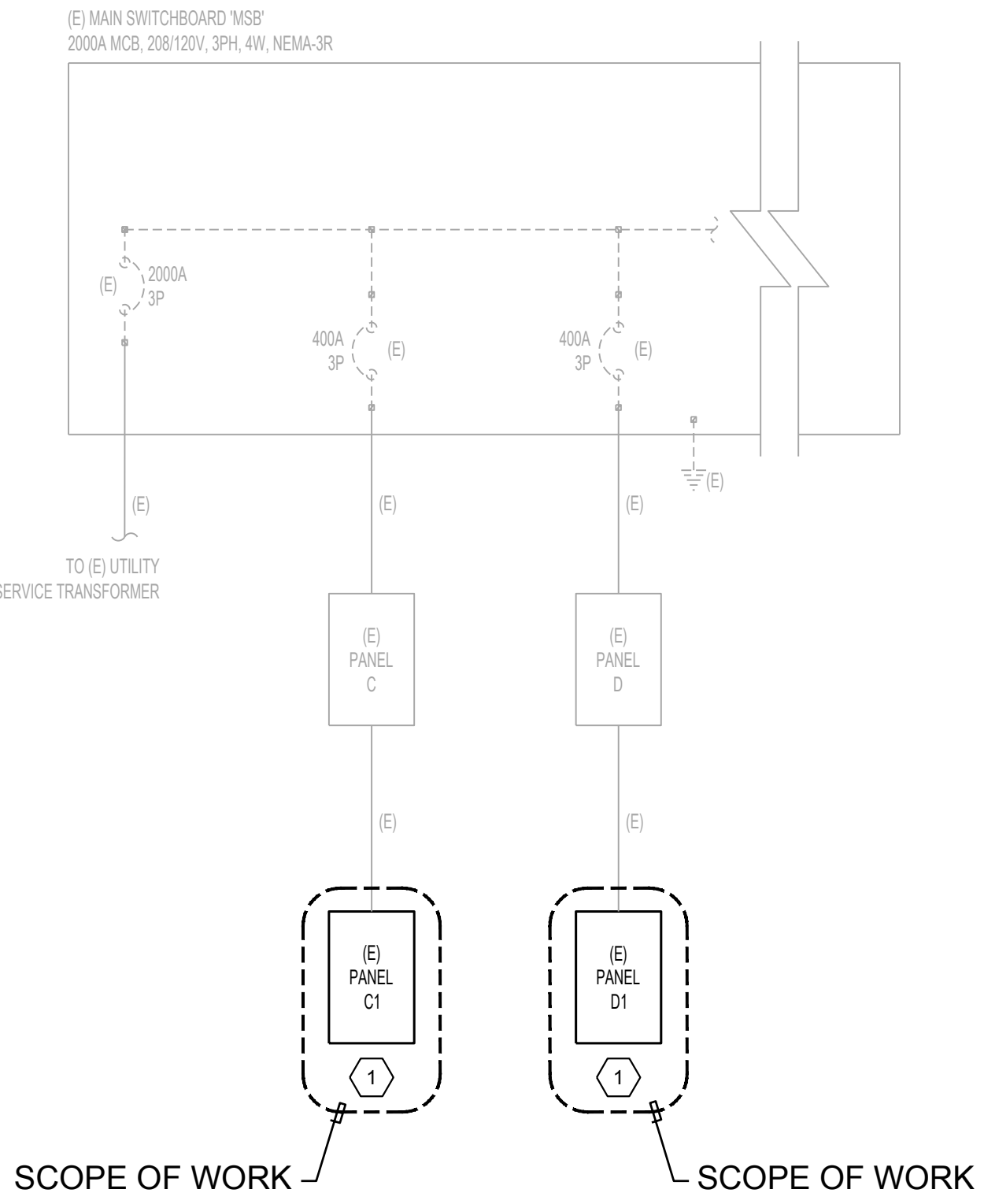
NOTES: 1. PROVIDE SUBMITTALS FOR ENGINEER & ARCHITECT'S REVIEW. 2. ALL LIGHTING FIXTURES SHALL BE PROVIDED WITH DISCONNECT PER NEC REQUIREMENTS.

LIGHTING FIXTURE SCHEDULE SCALE NONE 9

(E) PANEL C1 VOLTAGE 208Y/120V WIRE 4 MOUNTING SURFACE NOTES. Includes load descriptions, demand load calculations, and connected load tables.

(E) PANEL D1 VOLTAGE 208Y/120V WIRE 4 MOUNTING SURFACE NOTES. Includes load descriptions, demand load calculations, and connected load tables.

ELECTRICAL PANEL SCHEDULE SCALE NONE 8



DETAIL NOTES: 1. ALL ELECTRICAL EQUIPMENT AND FEEDERS ARE EXISTING, U.O.N. 2. ALL GROUNDING ELECTRODE SYSTEMS ARE EXISTING AND ARE TO REMAIN.

KEY NOTES: 1. PROVIDE UPDATED TYPEWRITTEN PANEL DIRECTORY.

ELECTRICAL PARTIAL SINGLE LINE DIAGRAM SCALE NONE 7

SCOPE OF WORK SCALE NONE 6

Table with 3 rows: 1. PROVIDE ELECTRICAL WORK AS PER PLAN. 2. PROVIDE RECEPTACLES, LIGHTING, CONTROLS, AND WIRING AS PER PLAN. 3. RE-USE EXISTING PANEL.

CAL GREEN BUILDING CODE REQUIREMENTS

Table with 2 columns: #, BUILDING COMMISSIONING. Includes OWNER SHALL PROVIDE (NOT INCLUDED IN BID), TESTING AND ADJUSTING, OPERATIONS AND MAINTENANCE, INSPECTIONS AND REPORTS.

CAL GREEN BUILDING REQUIREMENTS SCALE NONE 5

GENERAL NOTES

Table with 2 columns: #, DESCRIPTION. Includes work scope, general notes, equipment listing, and grounding requirements.

GENERAL NOTES SCALE NONE 4

DRAWING INDEX SCALE NONE 3

Table with 2 columns: SHEET, TITLE. Includes sheets E0.0, E1.0, E3.0, E9.0.

LEGEND

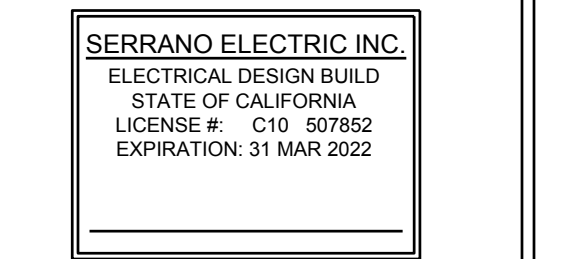
Table with 2 columns: SYMBOL, DESCRIPTION. Includes wall mounted IP, duplex receptacles, power pole, meter socket, etc.

LEGEND SCALE NONE 2

LEGEND

Table with 2 columns: SYMBOL, DESCRIPTION. Includes A through +42 symbols for electrical components.

ABBREVIATIONS SCALE NONE 1



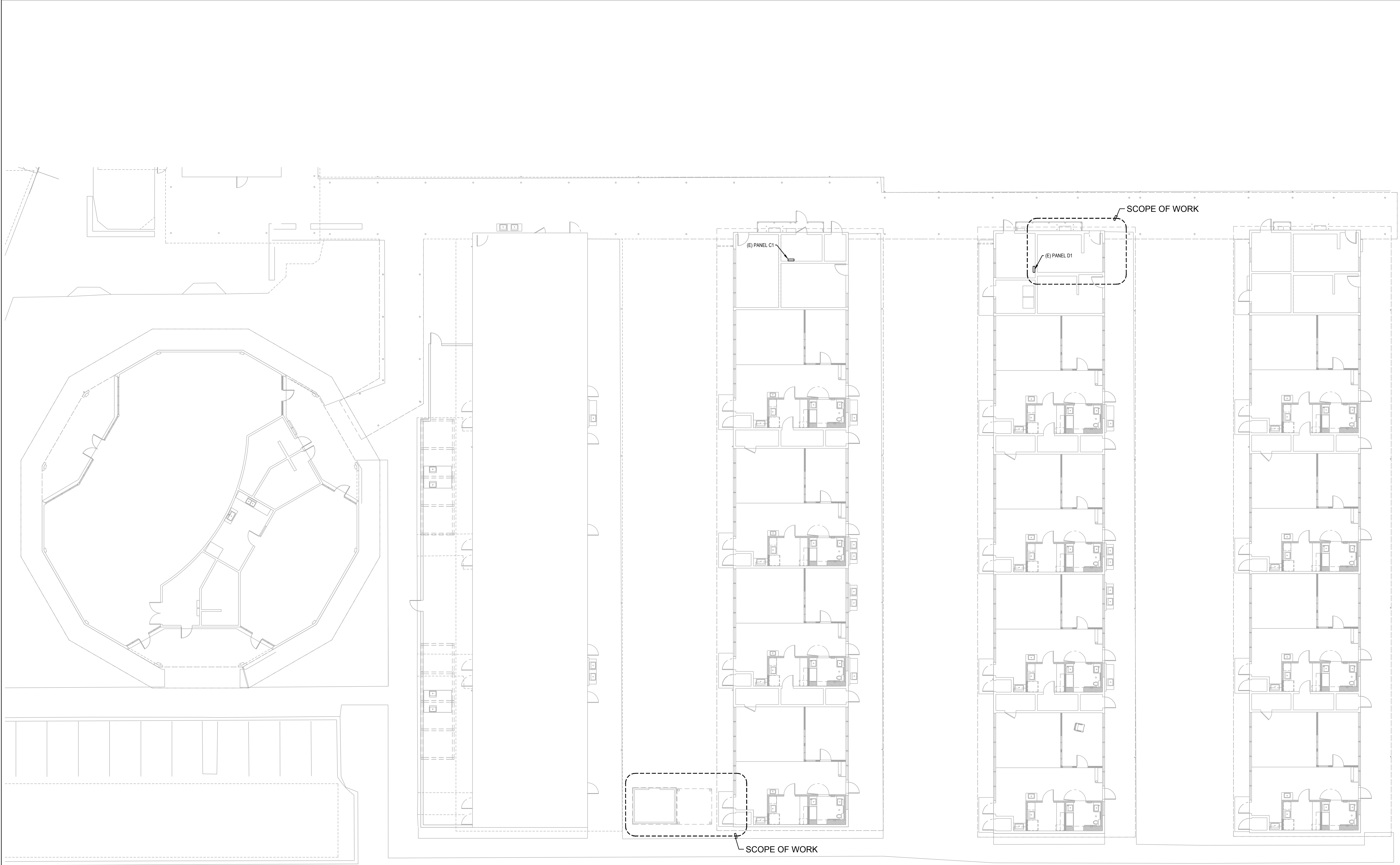
MOTHER'S ROOM CONVERSION TENANT IMPROVEMENT 325 GLADYS AVENUE MOUNTAIN VIEW, CA 94043

REVISIONS table with columns: DATE, REV, DESCRIPTION.

GOOGLE, INC. 1212 BORDEAUX DRIVE SUNNYVALE, CA 94089 ELECTRICAL GENERAL INFORMATION

DATE: 09/17/19 P.M.: M.M. DRAWN BY: A.M. E0.0

E0.0



SERRANO ELECTRIC INC.
ELECTRICAL DESIGN BUILD
STATE OF CALIFORNIA
LICENSE # C10 507682
EXPIRATION 31 MAR 2022

**MOTHER'S ROOM
CONVERSION**
TENANT IMPROVEMENT
325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REV	DATE	REMARKS
1	01/27/2020	REVISIONS PER PLAN CHECK COMMENTS

GOOGLE, INC.
1212 BORDEAUX DRIVE
SUNNYVALE, CA 94089

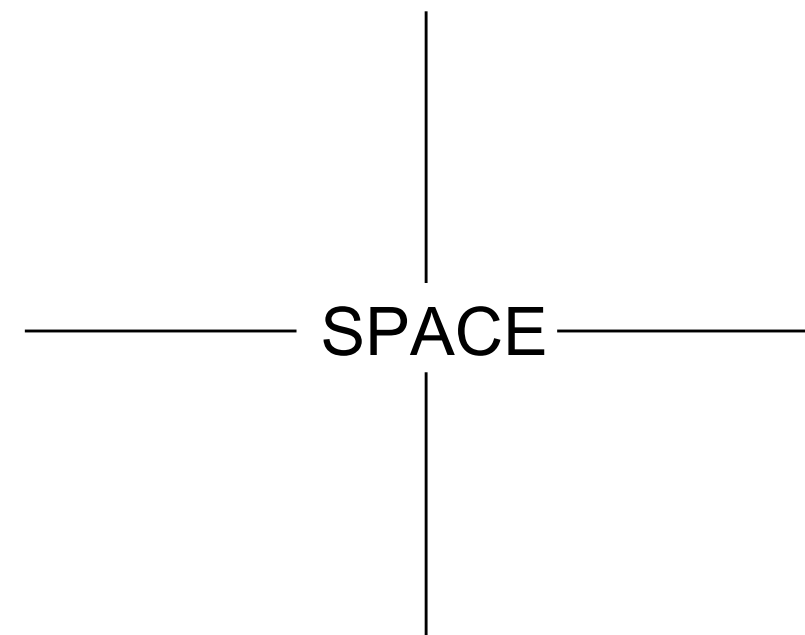
ELECTRICAL OVERALL PLAN

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO: SJC-19-048

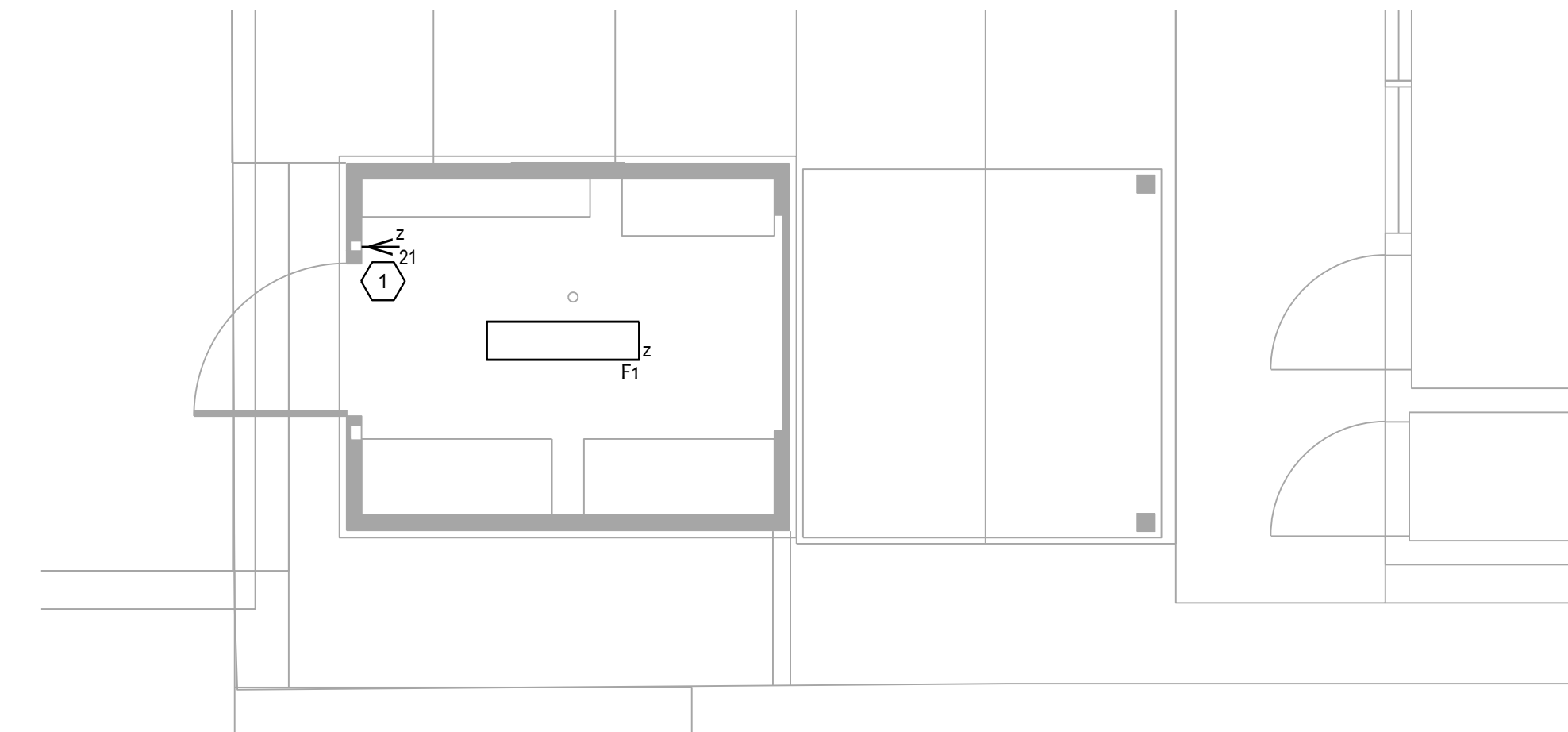
E1.0

SHEET NOTES
1. SEE E0.0, GENERAL NOTES.

THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF TWINSTEPS AND SHALL NOT BE USED FOR ANY OTHER WORK EXCEPT BY AGREEMENT WITH TWINSTEPS.



NOT USED SCALE NONE 4



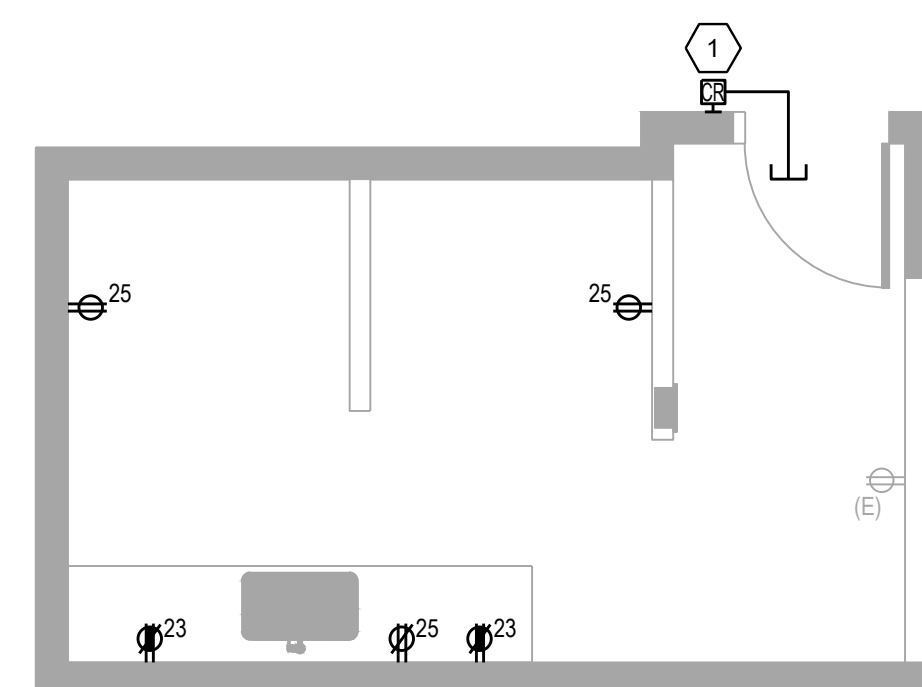
SHEET NOTES

1. SEE E0.0, GENERAL NOTES.
2. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND RATED FLOOR/CEILING ASSEMBLIES.
3. MINIMUM SIZE WIRE SHALL BE #10 AWG THWN-2 CU UNLESS OTHERWISE NOTED.
4. ALL CIRCUITS FED FROM PANEL C1, U.N.O.

KEY NOTES

1. 20A, 120V, VACANCY SENSOR WITH MANUAL ON/OFF CAPABILITY. COMPATIBLE WITH LIGHTING FIXTURE.

ELECTRICAL ENLARGED LIGHTING PLAN (MAINTENANCE SHED) SCALE 1/4" = 1'-0" 3



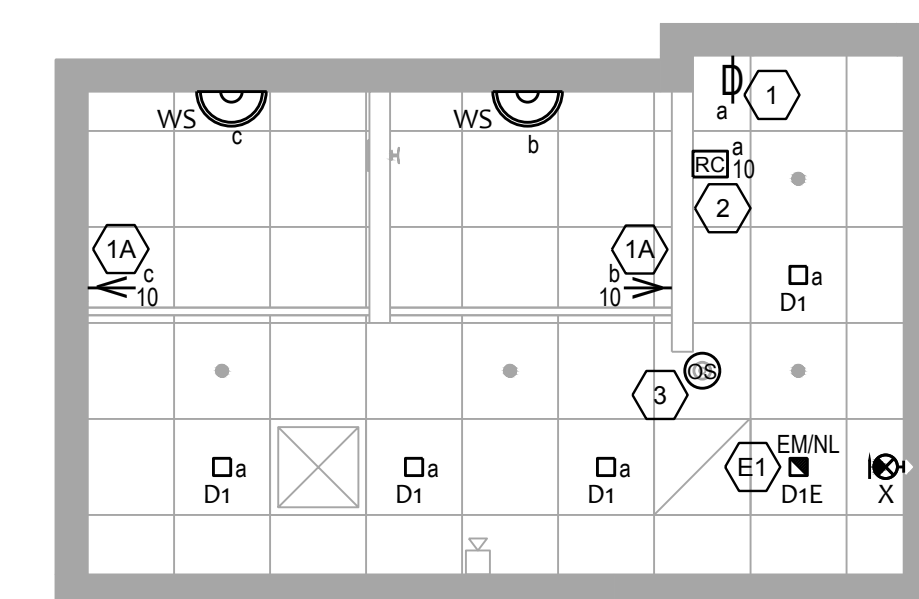
SHEET NOTES

1. SEE E0.0, GENERAL NOTES.
2. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND RATED FLOOR/CEILING ASSEMBLIES.
3. MINIMUM SIZE WIRE SHALL BE #10 AWG THWN-2 CU UNLESS OTHERWISE NOTED.
4. FIELD VERIFY EXACT LOCATION OF NEW RECEPTACLES PRIOR TO ROUGH-IN.
5. ALL OTHER RECEPTACLES ARE EXISTING TO REMAIN.
6. ALL CIRCUITS FED FROM PANEL D1, U.N.O.

KEY NOTES

1. SECURITY CARD READER. PROVIDE 1G BOX @48" AFF TO TOP OF THE BOX. PROVIDE 1/2" CONDUIT STUB INTO PROTECTED SPACE.

ELECTRICAL ENLARGED POWER PLAN (MOTHER'S ROOM) SCALE 1/4" = 1'-0" 2



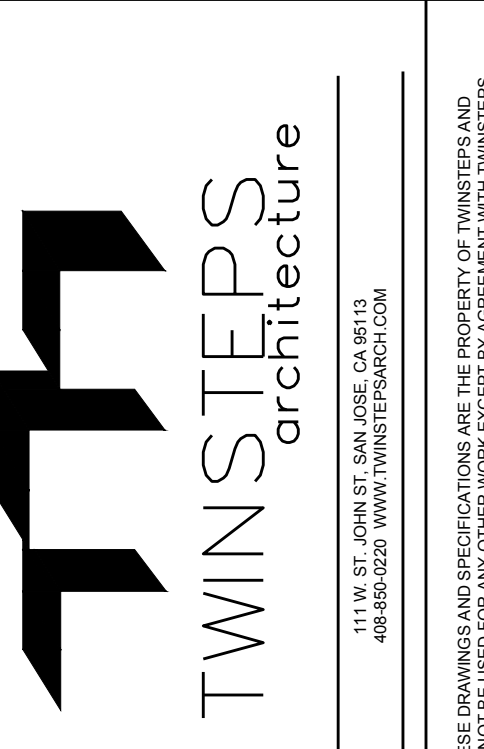
SHEET NOTES

1. SEE E0.0, GENERAL NOTES.
2. FIRESTOP ALL PENETRATIONS THROUGH RATED WALLS AND RATED FLOOR/CEILING ASSEMBLIES.
3. MINIMUM SIZE WIRE SHALL BE #10 AWG THWN-2 CU UNLESS OTHERWISE NOTED.
4. ALL CIRCUITS FED FROM PANEL D1, U.N.O.

KEY NOTES

1. 0-10V DIMMING WALL STATION WITH MANUAL ON/OFF CAPABILITY. COMPATIBLE WITH ROOM CONTROLLER AND LIGHTING FIXTURE.
2. DIMMING ROOM CONTROLLER TO BE LOCATED IN ACCESSIBLE CEILING SPACE. COMPATIBLE WITH LIGHTING FIXTURE.
3. LOW-VOLTAGE, CEILING MOUNTED DUAL-TECH OCCUPANCY SENSOR. COMPATIBLE WITH ROOM COLLER AND LIGHTING FIXTURE.
- E1 EMERGENCY / NIGHT LIGHT. CONNECT TO 24V EMERGENCY UNSWITCHED LIGHTING CIRCUIT.

ELECTRICAL ENLARGED LIGHTING PLAN (MOTHER'S ROOM) SCALE 1/4" = 1'-0" 1



SERRANO ELECTRIC INC.
ELECTRICAL DESIGN BUILD
STATE OF CALIFORNIA
LICENSE # C10 507852
EXPIRATION 31 MAR 2022

**MOTHER'S ROOM
CONVERSION**
TENANT IMPROVEMENT
325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REV	DATE	REMARKS
1	01/27/2020	PERMIT SET REVISIONS PER PLAN CHECK COMMENTS

GOOGLE, INC.
1212 BORDEAUX DRIVE
SUNNYVALE, CA 94089

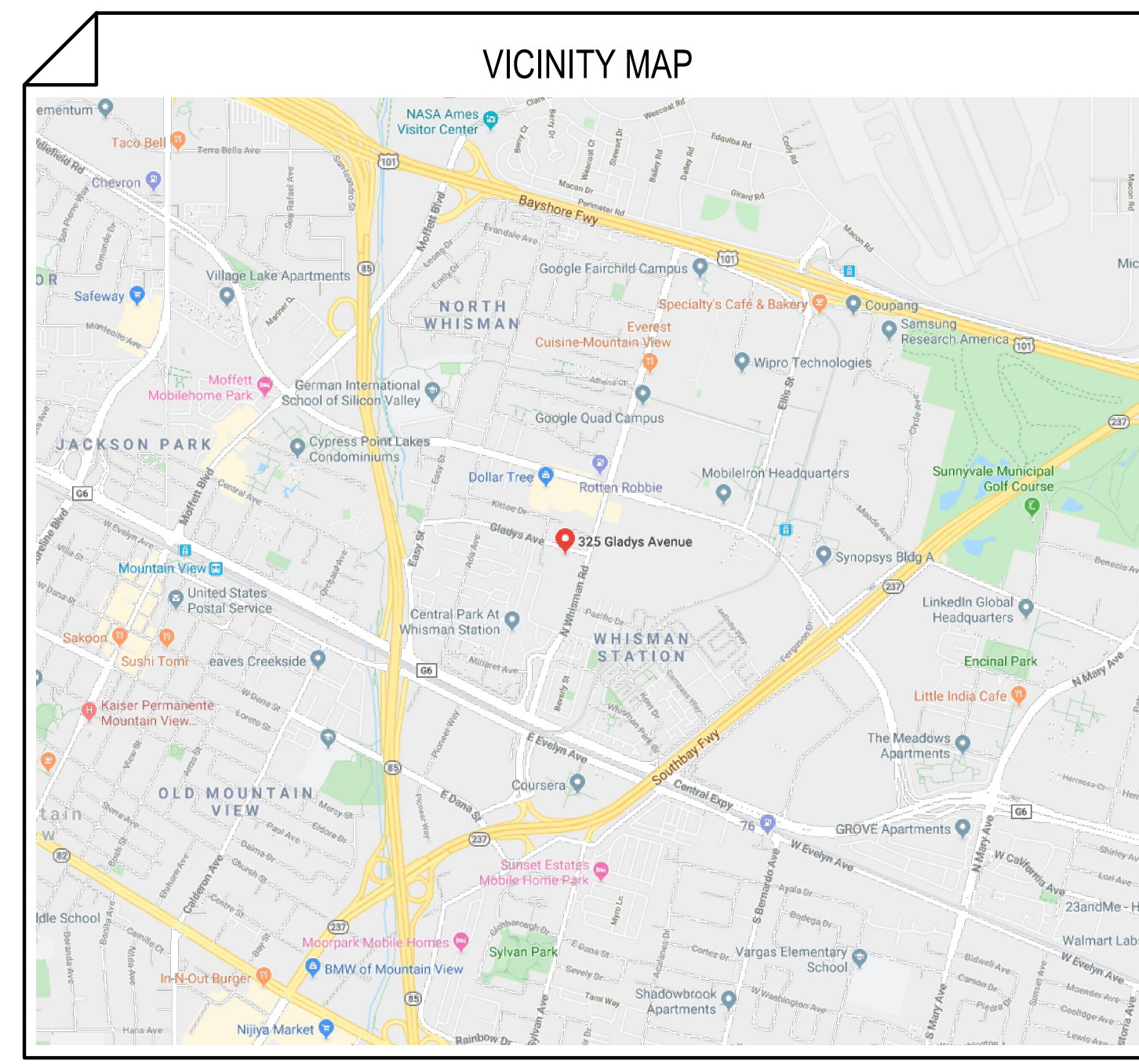
**ELECTRICAL ENLARGED
LIGHTING & POWER PLAN**

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO: SJC-19-048

E3.0

LEGEND

	Y STRAINER WITH BLOW OFF VALVE
	FLEXIBLE CONNECTION
	EXPANSION LOOP SIZE
	SHOCK ABSORBER
	VACUUM BREAKER
	MANUAL AIR VENT
	AUTOMATIC AIR VENT
	VALVE (SPECIFICATION FOR TYPE)
	CHECK VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE WITH A.B.D.
	BALANCING VALVE
	VALVE WITH TAMPER SWITCH
	GAS COCK VALVE
	SEISMIC VALVE
	RELIEF VALVE
	MIXING VALVE
	ANGLE RELIEF VALVE
	UNION
	REDUCER
	SLEEVE
	PRESSURE GAUGE AND COCK
	THERMOMETER
	WATER FLOW SWITCH
	PUMP
	METER
	FLOOR DRAIN, AREA DRAIN, PLANT DRAIN, GARAGE DRAIN
	ROOF RECEPTOR
	ROOF DRAIN
	OVERFLOW ROOF DRAIN
	POINT OF CONNECTION (NEW TO EXISTING)
	HOSE BIBB
	REDUCED PRESSURE ZONE TYPE BACKFLOW PREVENTER ASSEMBLY
	PIPE DOWN
	PIPE UP
	BOTTOM PIPE CONNECTION
	TOP PIPE CONNECTION



PLUMBING FIXTURE & EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MIN BRANCH SIZE				MANUFACTURER & MODEL #	REMARKS
		COLD WATER	HOT WATER	WASTE	VENT		
SK-1	MOTHERS ROOM SINK	1/2"	1/2"	2"	1 1/2"	US-ADA1830-A	STAINLESS STEEL SINGLE COMPARTMENT UNDERMOUNT SINK WITH DELTA 9159-DST 1.8 GPM FAUCET

PIPING LEGEND

LINE	DESCRIPTION	MATERIAL TYPE
SS	SANITARY SEWER PIPING ABOVE SLAB	CAST IRON NO-HUB PIPE AND FITTINGS W/STANDARD BANDS
V	VENT PIPING	CAST IRON NO-HUB PIPE AND FITTINGS W/STANDARD BANDS
SS	SANITARY SEWER BELOW SLAB	CAST IRON NO-HUB PIPE AND FITTINGS W/STANDARD BANDS
CW	COLD WATER ABOVE SLAB	TYPE L COPPER PIPE WITH 95% SOLDERED JOINTS
CW	COLD WATER UNDER SLAB	SCH. 40 PVC PIPE AND FITTINGS
HWS	HOT WATER SUPPLY/HOT WATER RETURN	TYPE L COPPER PIPE WITH 95% SOLDERED JOINTS
G	GAS	2" & SMALLER - GALVANIZED PIPE W/GALVANIZED MALLEABLE FITTINGS 2 1/2" & LARGER - SCH.40 CARBON STEEL W/BUTT WELDED FITTINGS
CD	CONDENSATE	TYPE M COPPER PIPE WITH 95% SOLDERED JOINTS
RD	STORM DRAIN PIPING AND OVERFLOW PIPING	CAST IRON NO-HUB PIPE AND FITTINGS W/STANDARD BANDS

CalGreen Section- 5.303.2 20% Savings- Indoor Water Use Table

Design Case Water Use Calculation					
Flush Fixtures	Daily Uses	Flowrate (GPF)	Duration (Flush)	Occupants	Water Use (Gallons)
Water Closet (Male)	1	1.28	1	106	136
Water Closet (Female)	3	1.28	3	106	1,221
Urinal (Male)	2	0.125	2	106	53
Other Fixtures					
Lavatory Faucet (Male)	3	0.5	0.25	212	80
Kitchen Sink	1	2	4	212	1,696
Mothers Sink	1	2	15	106	3,180
Total Daily Volume (Gallons)					6,365
Annual Work Days					260
Total Annual Volume (Gallons)					1,654,978
Baseline Case Water Use Calculation					
Flush Fixtures	Daily Uses	Flowrate (GPF)	Duration (Flush)	Occupants	Water Use (Gallons)
Water Closet (Male)	1	1.6	1	106	170
Water Closet (Female)	3	1.6	3	106	1,526
Urinal (Male)	2	1	2	106	424
Other Fixtures					
Lavatory Faucet (Male)	3	0.5	0.25	212	80
Kitchen Sink	1	2.5	4	212	2,120
Mothers Sink	1	2.5	15	106	3,975
Total Baseline Daily Volume (Gallons)					8,295
Annual Work Days					260
Total Baseline Annual Volume (Gallons)					2,156,570
% Annual Water Reduction Over The Baseline					23%

SHEET INDEX

P0.00 PLUMBING SYMBOLS AND ABBREVIATIONS
P2.01 PLUMBING FLOOR PLANS

SHEET NUMBERING KEY

X X . X X X
↑ ↑ ↑ ↑
AREA DESIGNATOR (IF REQUIRED)
FLOOR LEVEL (PLANS), CONSECUTIVE NUMBER (NON-PLAN SHEETS)
CONSECUTIVE NUMBER (NON-PLAN SHEETS)
TYPE DESIGNATOR (PLANS, SECTIONS, DETAILS, ETC.)
DISCIPLINE (MECHANICAL, PLUMBING, ETC.)

DISCIPLINE LEGEND	SHEET TYPE LEGEND	AREA LEGEND
M MECHANICAL	1 SITE (PLANS)	1,2,3 etc. (SEE KEY PLAN)
MP MECHANICAL PIPING	2 FLOOR (PLANS)	
P PLUMBING	3 SCHEDULES	
PP PROCESS PIPING	4 ENLARGED PLANS	
xD DEMO	5 SECTIONS & DIAGRAMS	
	6 DETAILS	
	7 CONTROLS	

- ### GENERAL NOTES
- ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY AND PROPERLY LABELED CEC 110-2.
 - ALL WASTE & VENT PIPING TO BE SLOPED 1/4" PER FOOT.
 - ALL CONDENSATE PIPING TO BE SLOPED 1/8" PER FOOT CMC SECTION 309 AND CPC SECTION 803, 807 AND 814.
 - VENT PIPING TO TERMINATE 10' FROM ANY AIR INTAKE.
 - ALL PIPING TO BE SUPPORTED, SECURED, FASTENED TO STRUCTURE PER CPC 2016.
 - SANITARY SEWER & VENT CLEAN-OUTS TO BE INSTALLED PER CPC 2016.
 - FIELD COORDINATE PLUMBING INSTALLATION WITH STRUCTURAL OR ARCHITECTURAL OBSTRUCTIONS.
 - ALL PENETRATIONS OF RATED WALLS AND FLOORS MUST BE PROTECTED AS REQUIRED BY THE BUILDING CODE WITH A LISTED AND APPROVED FIRE STOP PRODUCT. CBC SECTION 713.
 - ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN TABLE 5.303.6 CGBSC 5.303.6.
 - PLUMBING CONTRACTOR SHALL CONNECT TO SITE SEWER AND WATER CONNECTIONS 5 FOOT OFF BUILDING LINE. SEE CIVIL DRAWINGS FOR EXACT LOCATIONS AND INVERT ELEVATIONS.
 - REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONED PLAN LOCATION AND MOUNTING HEIGHTS FOR FIXTURES.
 - SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF FIXTURES PRIOR TO ROUGH IN AND INSTALLATION. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER THE PLUMBING DRAWINGS SHOULD ANY CONFLICTS OCCUR.
 - ALL HOSE BIBBS SHALL BE EQUIPPED WITH APPROVED NON-REMOVABLE BACKFLOW PREVENTION DEVICES.
 - CONTRACTOR SHALL COORDINATE INSTALLATION WITH WORK OF OTHER TRADES PRIOR TO STARTING. IN THE EVENT THAT CONFLICTS ARE FOUND WITH THE WORK OF OTHER TRADES, BRING ALL SUCH CONFLICTS TO THE ARCHITECT'S ATTENTION FOR RESOLUTION PRIOR TO PROCESSING WITH WORK IN THAT AREA.



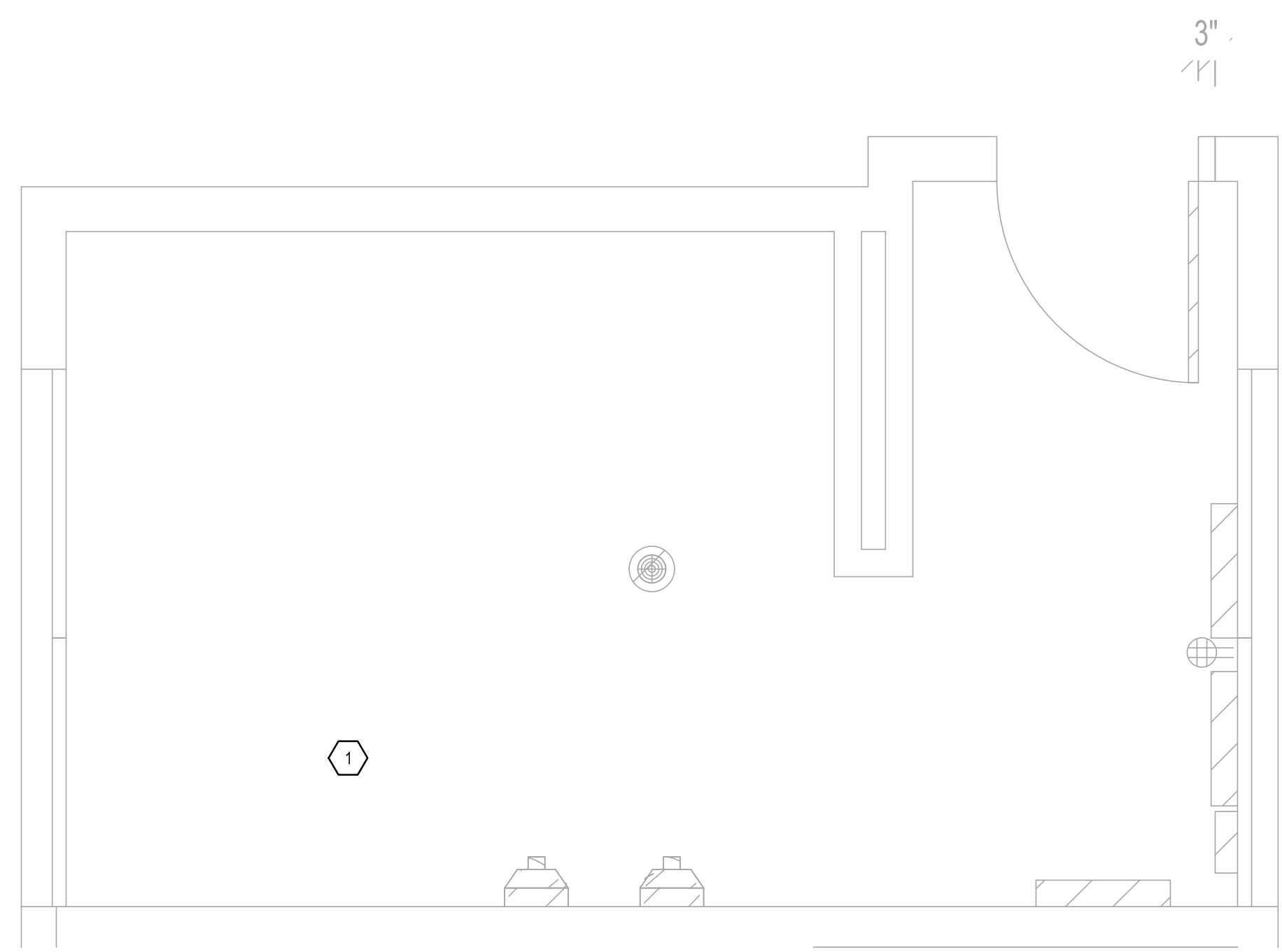
**MOTHER'S ROOM
CONVERSION**
TENANT IMPROVEMENT
325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REV	DATE	REMARKS
1	01/27/2020	REVISIONS PER PLAN CHECK COMMENTS

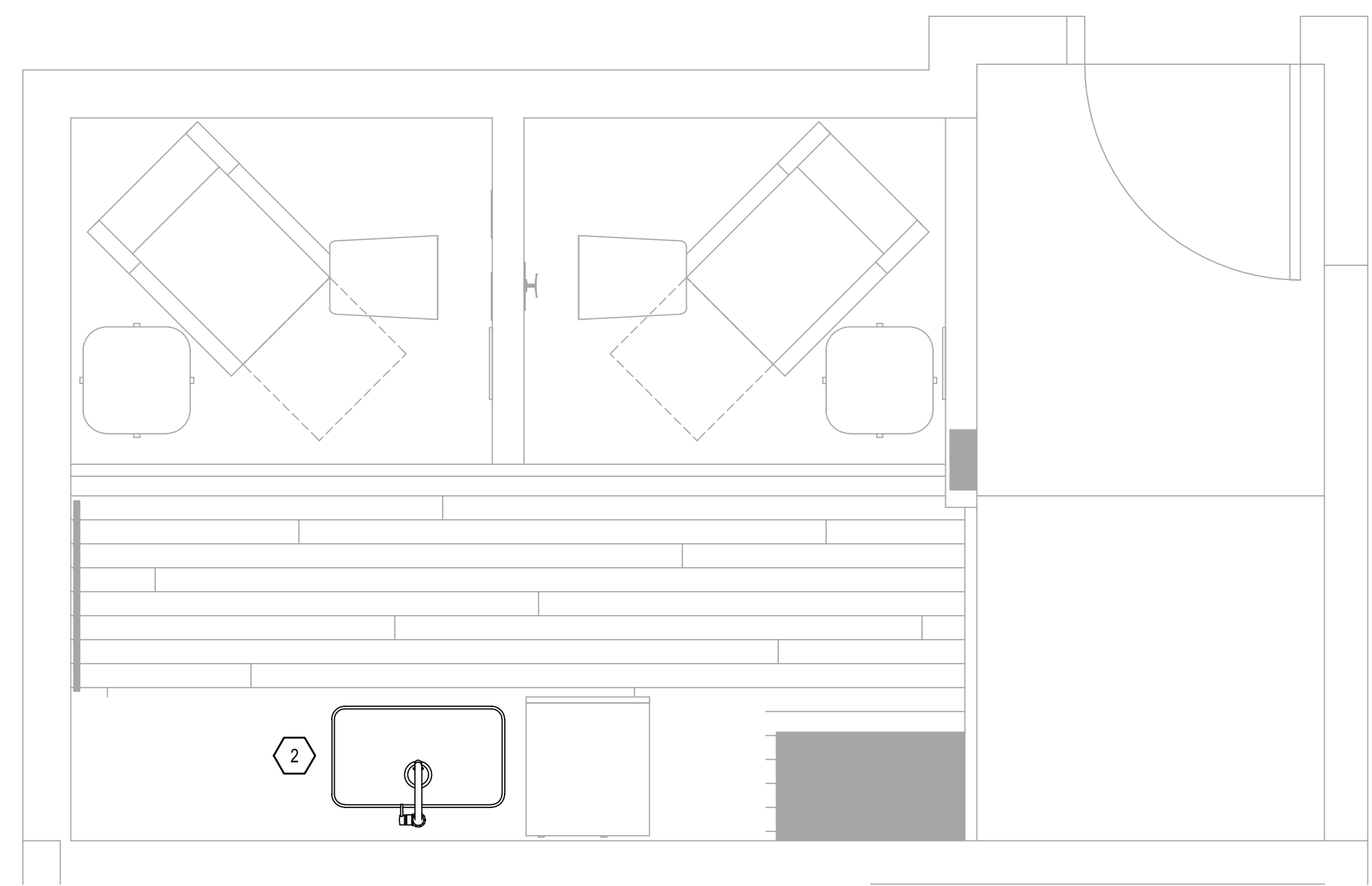
GOOGLE, INC.
1212 BORDEAUX DRIVE
SUNNYVALE, CA 94089
PLUMBING SYMBOLS AND ABBREVIATIONS

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO.: SJC-19-048

P0.00



1 PLUMBING FLOOR PLAN - DEMO SCALE: 1/2"=1'-0"



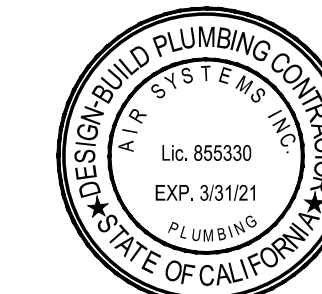
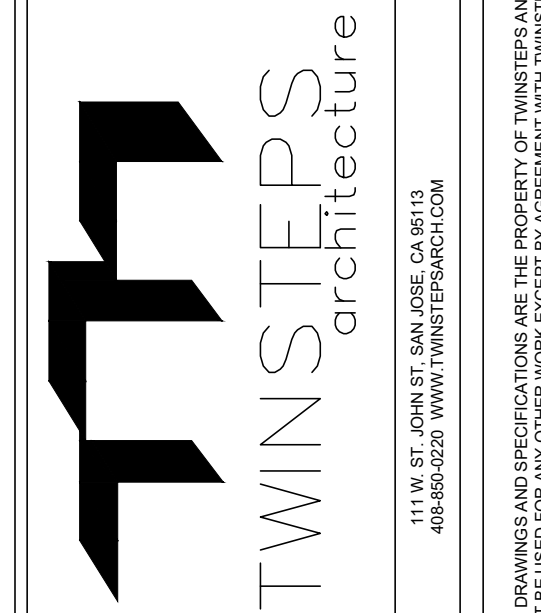
2 PLUMBING FLOOR PLAN - NEW SCALE: 1/2"=1'-0"

GENERAL NOTES:

- A. ONLY THOSE ITEMS SHOWN BOLD ARE PART OF THIS ISSUANCE.
- B. ONLY THOSE KEYNOTES WITH CORRESPONDING TAGS ON THIS DRAWING APPLY.

SHEET NOTES:

- 1. SAFE OFF AND CAP EXISTING PLUMBING LINES.
- 2. INSTALL NEW SINK AND FAUCET, CONNECT TO EXISTING PLUMBING LINES.

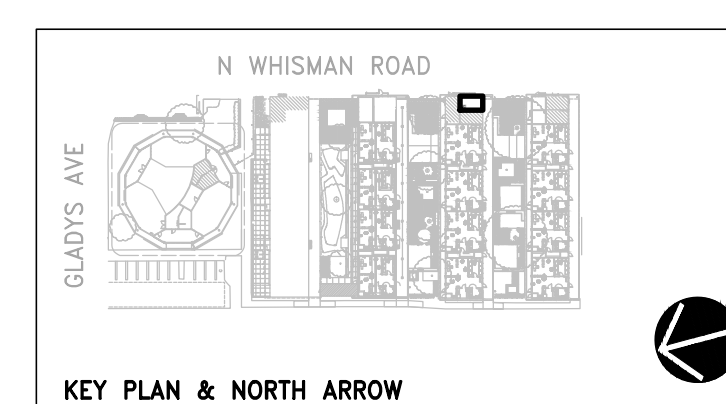


**MOTHER'S ROOM
CONVERSION**
TENANT IMPROVEMENT
325 GLADYS AVENUE
MOUNTAIN VIEW, CA 94043

REV	DATE	REVISIONS PER PLAN CHECK COMMENTS	REMARKS
1	01/27/2020		

GOOGLE, INC.
1212 BORDEAUX DRIVE
SUNNYVALE, CA 94089
PLUMBING FLOOR PLANS

DATE: 09/17/19
P.M.: M.M.
DRAWN BY: A.M.
JOB NO.: SJC-19-048



P2.01