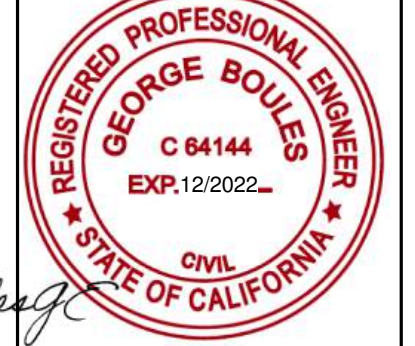


AVRAHAM RESIDANCE- CONERT AN EXISTING ATTIC TO BEDROOM



GEORGE BOULES, PE
20016 LULL ST, 91306



29082 MADRID PL.
91384

ALL WORK PLAN SHALL CONFORM TO 2019 CBC, CMC, CPC, CEC, AND CES
READ COVER SHEET, GENERAL DETAILS WHEN AVAILABLE IN THE DOCUMENTS

AVRAHAM RESIDANCE

NOTICE TO BUILDER:
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BUL. DEPARTMENT CORRECTION:

Revision	#	REV:	Date

SHEET
site plan

JOB Project Number
SHEET

A100

Owner: AVRAHAM REHCNITZ

C21-001094

2474 BARBARA DR SANTA ROSA, CA 93012

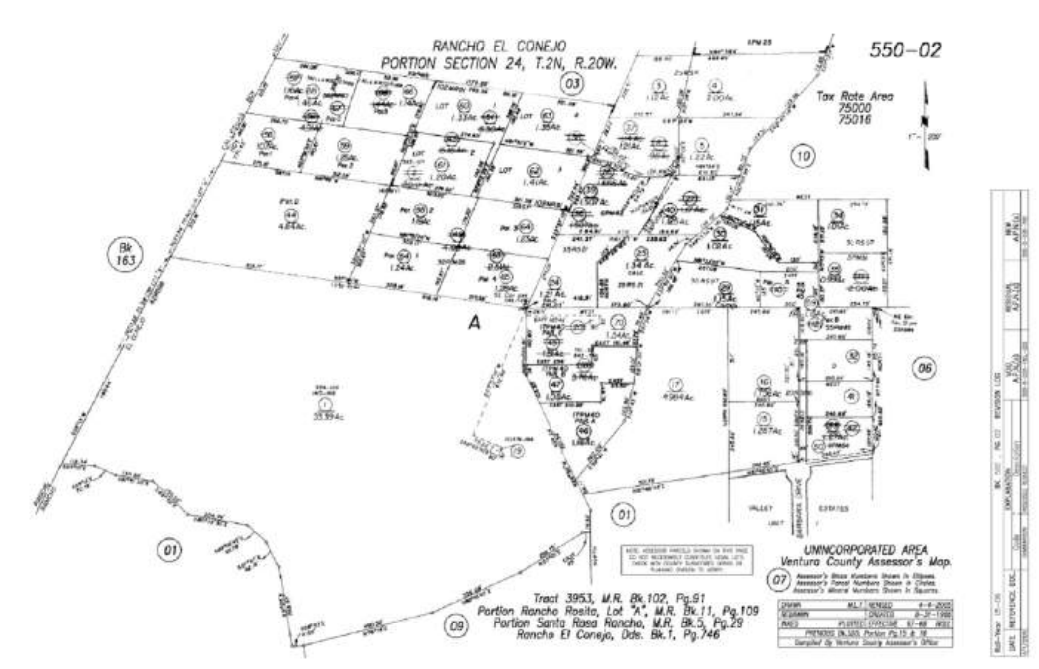
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Sheet List		
Sheet Number	Sheet Name	Sheet Issue Date
A100	site plan	09/06/21
A101	2nd floor-EXISTING & PROPOSED FLOOR PLAN	07/10/21
A102	FIRST FLOOR AND KEYNOTE	08/26/21
A103	ELEVATIONS AND SECTIONS	08/26/21
A104	ARCH. DETAILS	09/06/21
A105	ARCH. NOTE-GREEN& GLAZING	09/07/21
S0	Typical Structure Detail	08/09/20
S1	FOUNDATION PLAN	09/07/21
S2	FRAMING PLAN	09/07/21

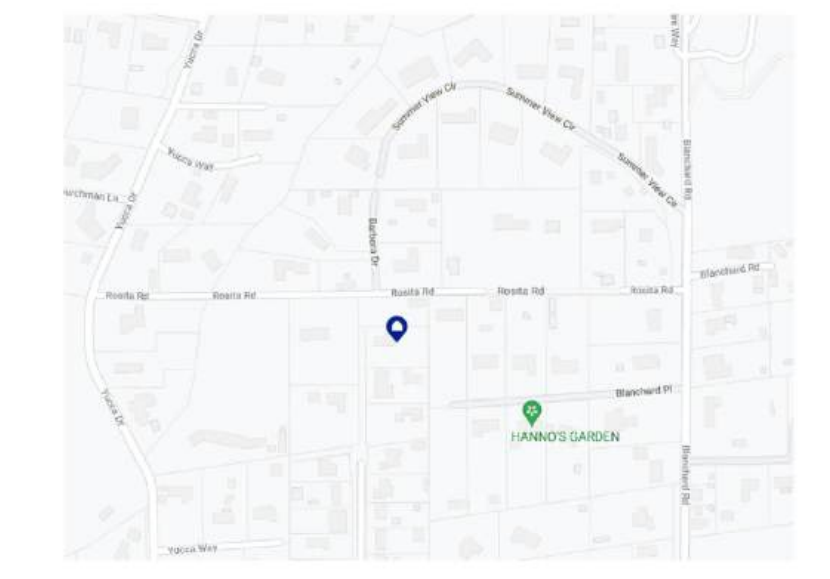
5-11-22
george boules

OWNER: MR/ AVRAHAM REHCNITZ
PHONE: (818) 915-1181
ADDRESS: 2474 BARBARA DR

ENGINEER: ST.GEORGE ENGINEERING
GEORGE BOULES, PE
310-593-1333
29082 MADRID PL, CASTAIC, CA 91384
ST.GEORGE@ENGINEERING.BUILDERS



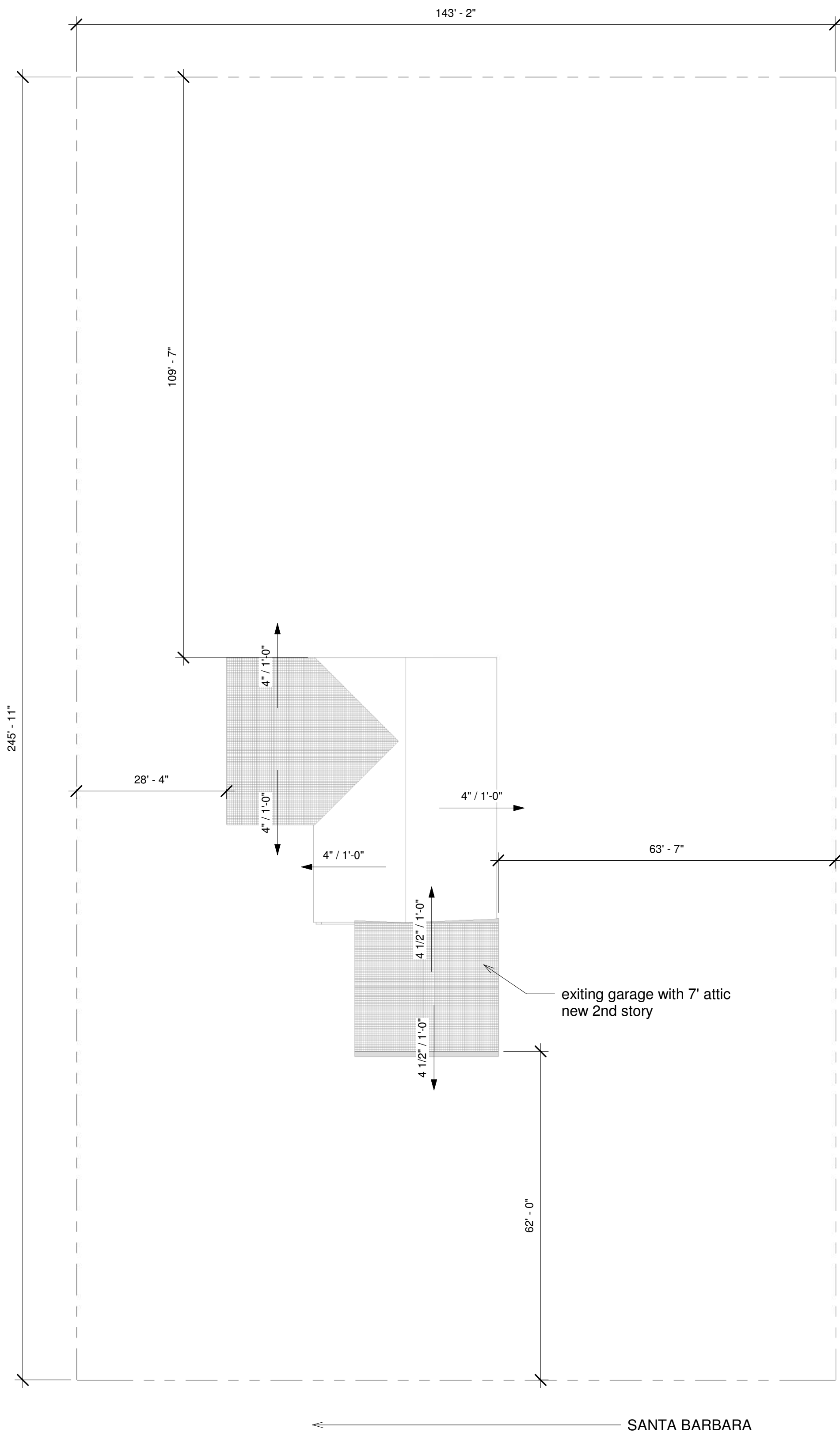
3 parcel map
1 1/2" = 1'-0"



4 VACINITY MAP
1 1/2" = 1'-0"



5 PIC
1 1/2" = 1'-0"



1 Site
1/16" = 1'-0"

Project Description

1- Convert An existing Attic to 2nd Floor (Bedroom).

RFA CALCS.						
1- SFH	(E)	17800 SF	(N)	620 SF	EXEMPT 0.000	TOTAL 2390 sf
4- GARAGE	(E)	529	(N)			TOTAL 529
TOTAL RFA:		2390.0 SF				
LOT AREA =		0.72 ACR.				
COVERAGE AREA (EXISTING = NEW) =		(1780+972 = 2672.0) 8.6%				

Noise Limite:

construction work within 300' of residential property is limited to the hours of seven a.m. to seven p.m., Monday through Friday, and 8:00 a.m. to six p.m. on Saturdays. No work shall be performed on the following public holidays: new year's day, independence Day, Thanksgiving, christmas, Momorial Day and labor day

The enclosed drawings have been developed to only address The above listed work only

2 LEGAL DESCREPTION/ PROJECT DESCRIPTION
12" = 1'-0"

Project information

Property Address:	2474 BARBARA DR SANTA ROSA, CA 93012
Assessor Parcel No. (APN)	5500020325
Tract	
Block	None
Lot	
Zoning	RE-1 ac
Building Type	(V-B)
Occupancy group	R3

The proievt shall comply with the following Codes:

- 1-2019 california building code (CBC)
- 2-2019 California Residential Code (CRC)
- 3-2019 California Mechanical Code (CMC)
- 4-2019 California E lectrical Code (CEC)
- 5- 2019 california Plumbing Code (CPC)
- 6-2019 California Energy Code
- 7-2019 California Green code

H.F.H. = NO
SPRINKLERS = NO
E.I. = 90-130

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06/01/2022

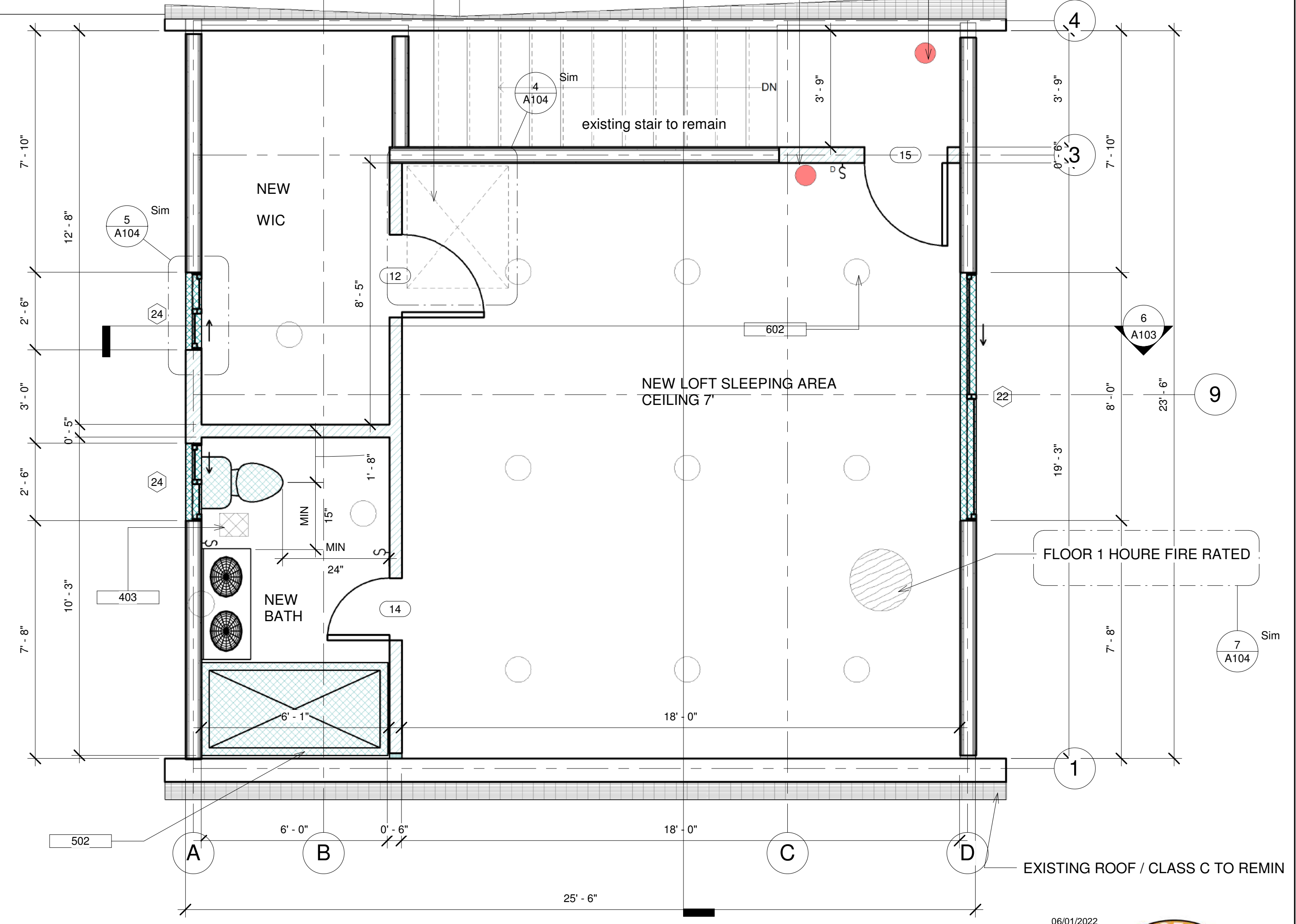
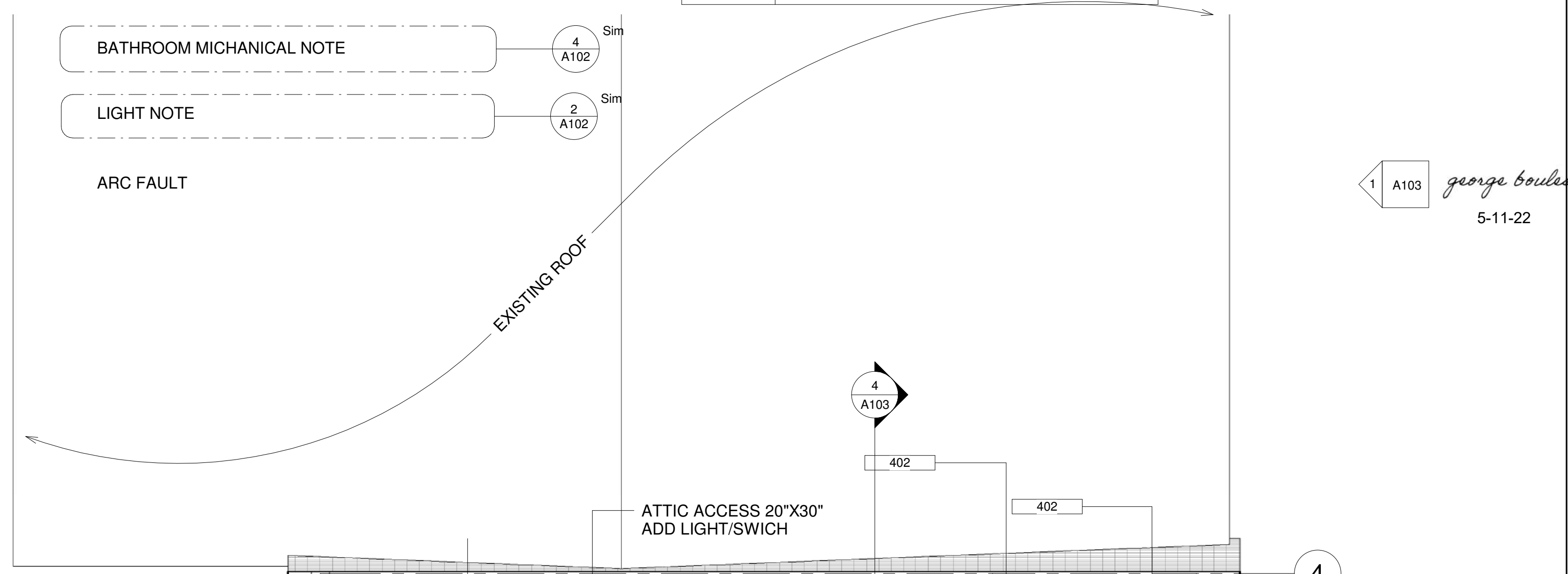


Catherine Wilson
Division of Building and Safety

Keynote Legend	
Key Value	Keynote Text
401	Electrical smoke detector wired to primary power source/ WITH BATTERY BACKUP
402	Hard wire smoke detector and carbon monoxide with battery backup.
403	Exhaust fan ceiling mounted (min 5 air change per hour/50 cfm)energy star/ w humidity control.
502	CERAMIC TILE MIN HEIGHT AT SHOWER LEVEL
602	N DIAMBLE CEILING LIGHT

- N- WALL /ITEM
- EXISTING
- CD/ MO.D/ veify for existing
- Wall and item Legend 1/4" = 1'-0"

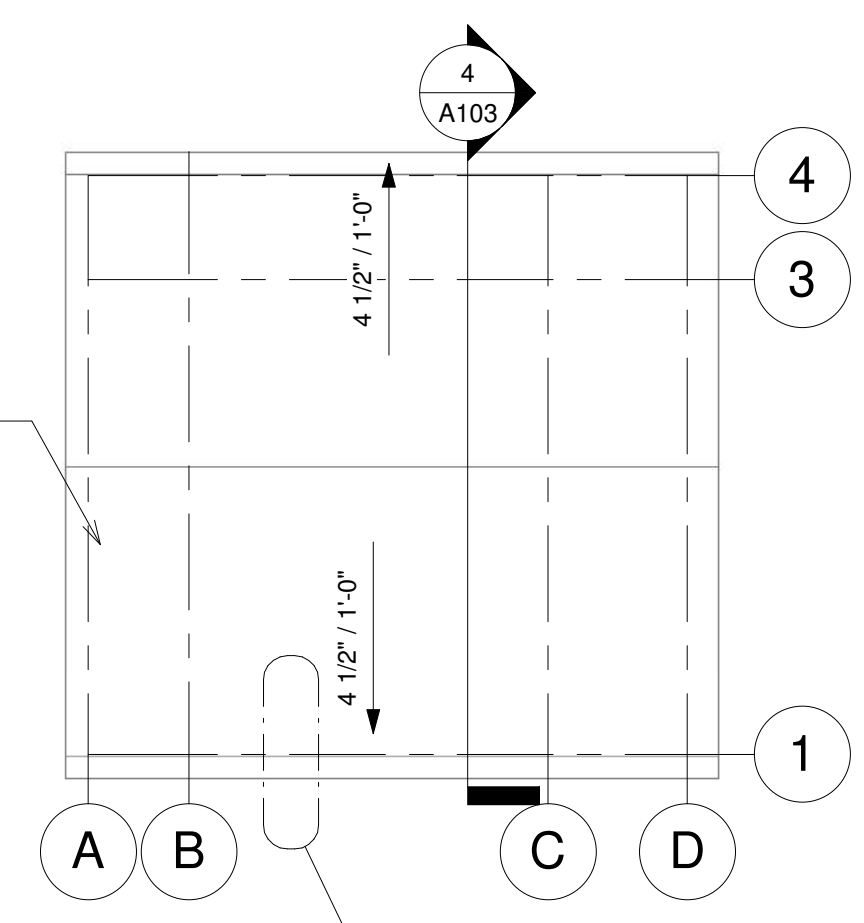
- BATHROOM ELECTRICAL NOTE
- BATHROOM PLUMBING NOTE
- BATHROOM MICHANICAL NOTE
- LIGHT NOTE
- ARC FAULT



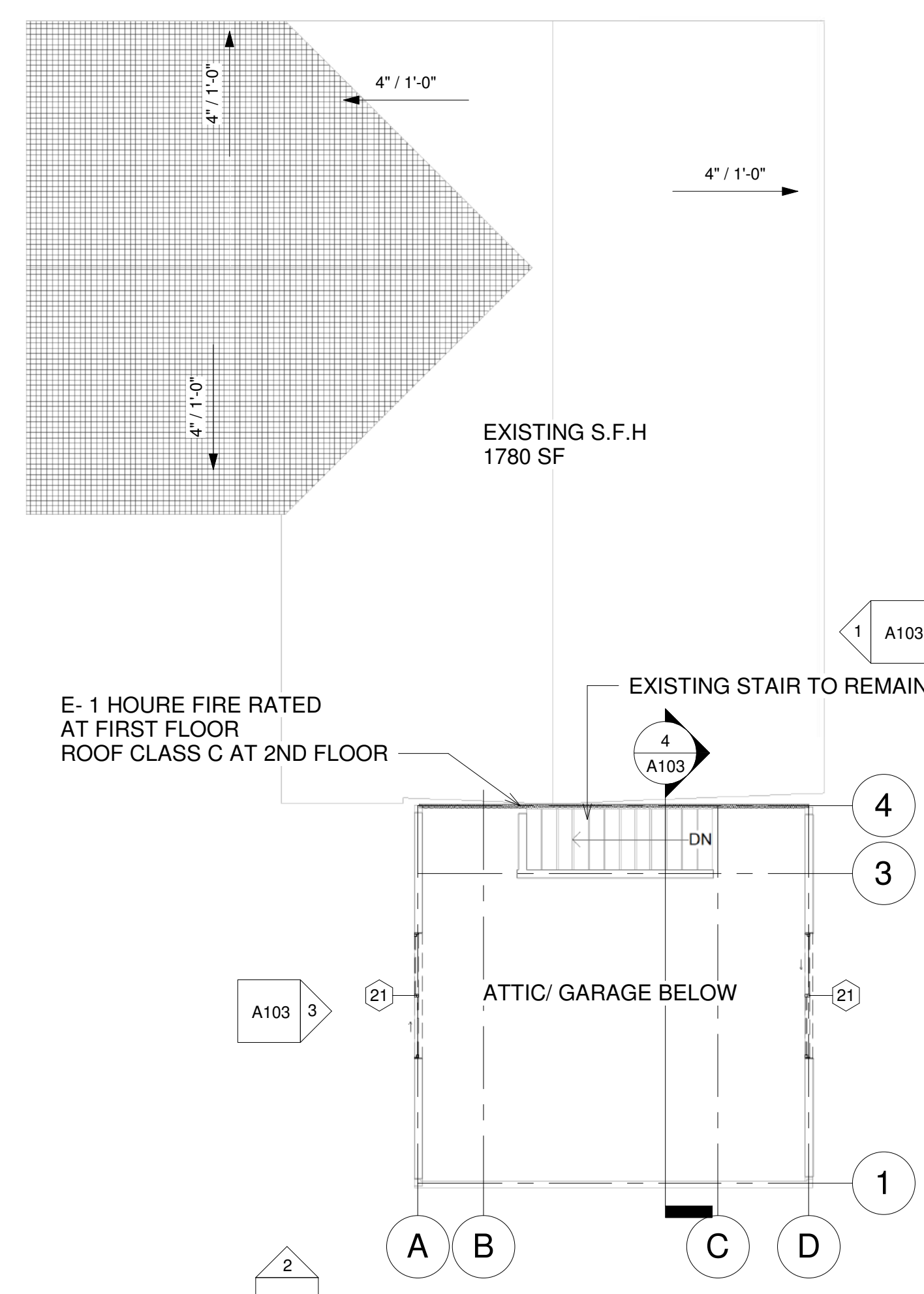
2 2ND FLOOR PROPOSED
3/8" = 1'-0"



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3 ROOF PLQN (2ND FLOOR)
1/8" = 1'-0"



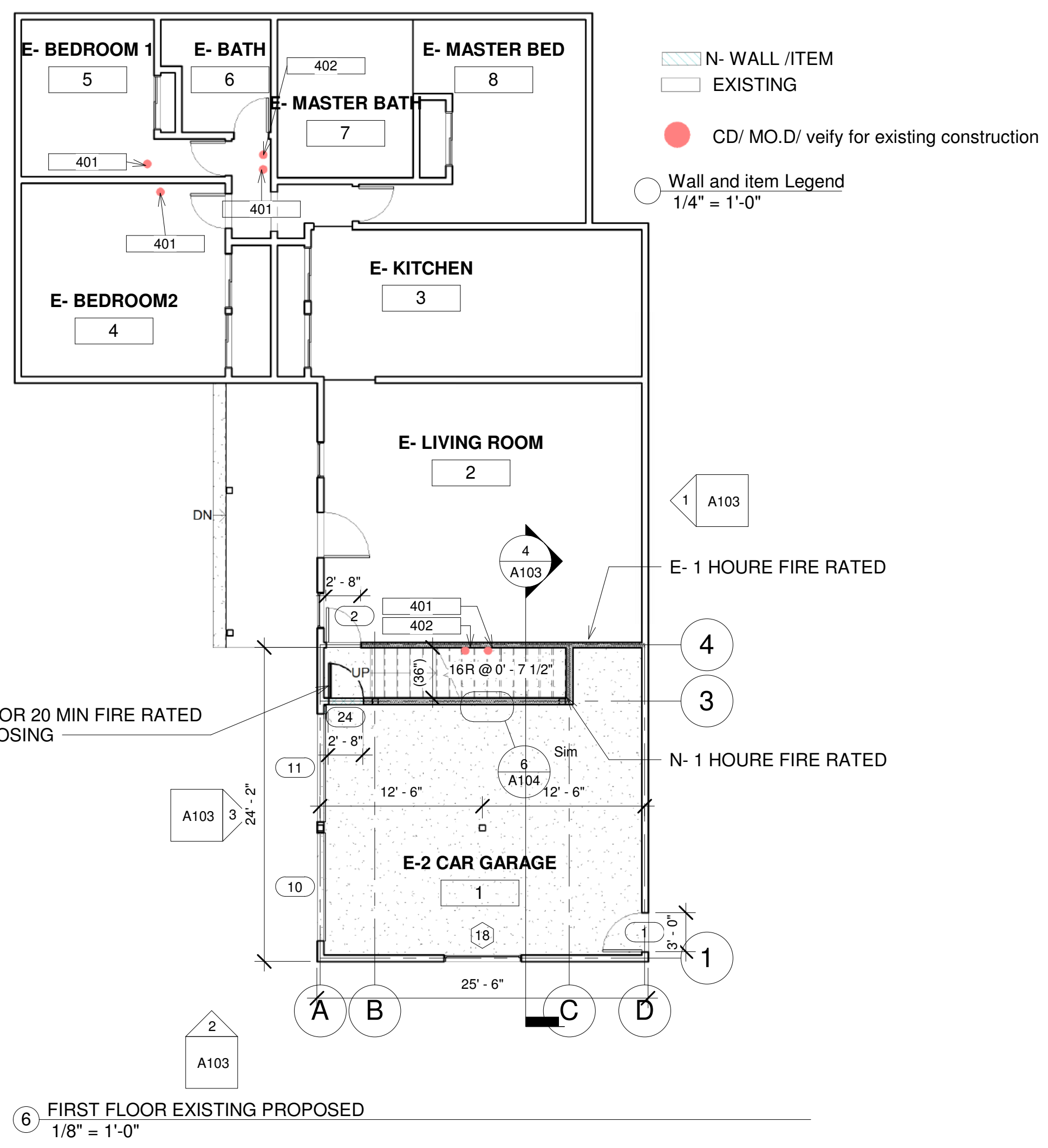
1 ATTIC FLOOR EXISTING
1/8" = 1'-0"

- The plumbing fixtures and plumbing fitting shall meet the standards noted below**
- a. Water Closet = 1.28 gallons per flush max
 - b. Showerheads = 1.8 gpm max (multiple showerheads in a single shower: combined flow is 1.8 gpm max)
 - c. Kitchen faucets = 1.8 gpm max
 - d. Lavatory faucets = 1.2 gpm max
 - e. Urinals = 0.5 gallons per flush max (0.125 gallons per flush when wall mounted)

Window Schedule						
Type Mark	Level	Width	Height	Sill Height	Phase Created	Phase Demolished
21	SECOUND FLOOR	8' - 0"	4' - 0"	2' - 8"	Existing	New Construction
21	SECOUND FLOOR	8' - 0"	4' - 0"	2' - 8"	Existing	New Construction
22	SECOUND FLOOR	8' - 0"	3' - 0"	3' - 8"	New Construction	None
24	SECOUND FLOOR	2' - 6"	3' - 0"	3' - 0"	New Construction	None
24	SECOUND FLOOR	2' - 6"	3' - 0"	3' - 0"	New Construction	None

Door Schedule						
Mark	Type Mark	Level	Width	Height	Phase Created	Phase Demolished
12	3	SECOUND FLOOR	2' - 8"	7' - 0"	New Construction	None
14	10	SECOUND FLOOR	2' - 0"	7' - 0"	New Construction	None
15	3	SECOUND FLOOR	2' - 8"	7' - 0"	New Construction	None

Keynote Legend	
Key Value	Keynote Text
401	Electrical smoke detector wired to primary power source/ WITH BATTERY BACKUP
402	Hard wire smoke detector and carbon monoxide with battery backup.
403	Exhaust fan ceiling mounted (min 5 air change per hour/50 cfm)energy star/ w humidity control.
502	CERAMIC TILE MIN HEIGHT AT SHOWER LEVEL
602	N DIAMBLE CEILING LIGHT



LIGHT NOTE:

- All installed luminaires shall be high-efficacy. [CEC 150.0(K)1.A]
- Arc-Fault Circuit-Interruption (AFCI) protection shall be provided. [CEC 210.12 (A)]
- Modifications or extensions of circuit conductors shall comply with AFCI requirements [CEC 210.12 (D)].
- IC (direct contact) and AT (air tight) rated cans are required for recessed lighting if installed in an insulated ceiling. For occupancies with a horizontal (floor/ceiling assembly) rated separation, the recessed fixtures shall be protected to the rating of the separation (1 hour) or be listed for the required protection. This generally applies to residential condominium construction where units are above or below other units. [CEC 150(K)1.C]

2 LIGHT NOTE
1 1/2" = 1'-0"

BATHROOM MECHANIOCAL NOTE:

- Each bathroom (with shower and/or tub) shall be mechanically ventilated and shall comply with the following:
 - Fans shall be ENERGY STAR compliant and be ducted to terminate outside the building.
 - Unless functioning as a component of a whole house ventilation system, fans must be controlled by a humidity control.
 - Humidity controls shall be capable of adjustment between a relative humidity range of less than or equal to 50 percent to a maximum of 80 percent. A humidity control may utilize manual or automatic means of adjustment.
 - A humidity control may be a separate component to the exhaust fan and is not required to be integral.
- Except where a whole house energy recovery system is used, a mechanical exhaust fan vented to the outdoors shall be provided in each room containing a bathtub, shower, or tub/shower combination. The ventilation rate shall be not less than 50 cfm intermittent operation and 20 cfm for continuous operation. Fans shall comply with the Energy Star Program. [CMC Appendix E 605.2]
- Bathroom and laundry room exhaust ducts shall be permitted to be of gypsum wallboard subject to the limitations of Section 602.5. [CMC 504.6]

4 BATHROOM MECHANIOCAL NOTE:
1 1/2" = 1'-0"

BATHROOM PLUMBING NOTE:

- Residential buildings undergoing permitted alterations, additions or improvements shall replace noncompliant plumbing fixtures with water-conserving plumbing fixtures. Plumbing fixture replacement is required prior to issuance of a certificate of final completion, certificate of occupancy or final permit approval. [CPC 401.3]
- The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-type Toilets. NOTE: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush. [CBGSC 4.303.1.1]
- The maximum flow rate of residential lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of residential lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi. [CBGSC 4.303.1.4.1]
- Showerheads shall have a maximum flow rate of 1.8 gallons per minute measured at 80 psi and shall be certified to the performance criteria of the U.S. EPA WaterSense Specifications for showerheads [CPC 408.2]
- When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
- Note: A handheld shower shall be considered a showerhead. [CBGSC 4.303.1.3.2]
- Shower and tub/shower control valves shall be pressure balancing/thermostatic. These valves shall be installed at the point of use. [CPC 408.3]
- Minimum interior shower size is 1024 square inches (must encompass a 30" circle). [CPC 408.6]
- Fixtures shall be set level and in proper alignment with reference to adjacent walls. No water closet or bidet shall be set neither closer than 15" from its center to a side wall or obstruction nor closer than 30" center to center to a similar fixture. The clear space in front of a water closet, lavatory or bidet shall be not less than 24". [CPC 402.5] No Urinal shall be set closer than 12" from its center to the side wall or partition nor closer than 24" center to center.
- The maximum hot water temperature discharging from the bathtub and whirlpool bathtub filler shall be limited to 120°F. The water heater thermostat shall not be considered a control for meeting this provision. [CPC 409.4]
- Bathtub and shower floors and walls above bathtubs with installed shower heads and in shower compartments shall be finished with a nonabsorbent surface. Such surfaces shall extend to a height of not less than 6 feet above the floor. [CRC R307.2]

3 BATHROOM PLUMBING NOTE:
1 1/2" = 1'-0"

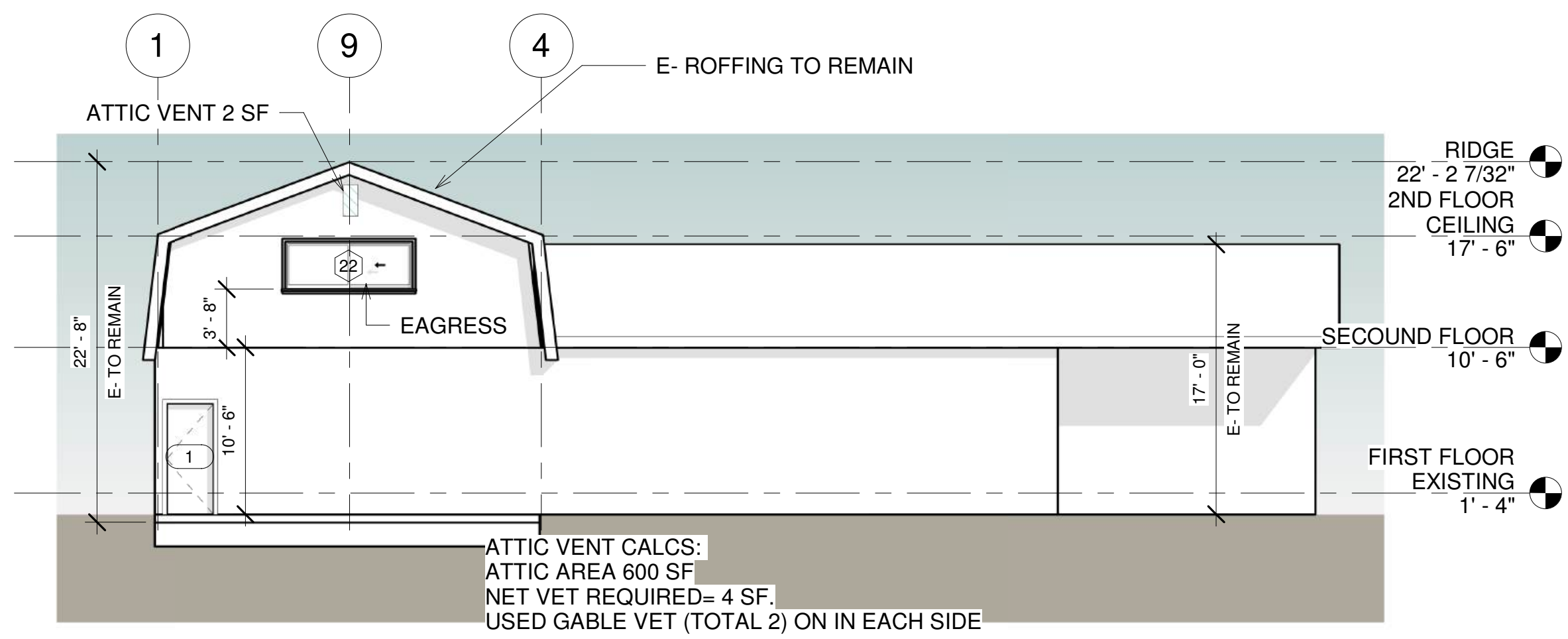
BATHROOM ELECTRICAL NOTE:

- Bathroom receptacle outlets shall be supplied by at least one 20-ampere branch circuit. Such circuits shall have no outlets other than as provided in CEC 550.13(E)(2). [CEC 550.12(E)]
- All 125-volt, single-phase, 15- and 20-ampere receptacles installed in bathrooms shall have ground-fault circuit-interrupter protection for personnel. [CEC 210.8(A)(1)]
- In addition to the number of branch circuits required by other parts of this section, at least one 120-volt, 20-ampere branch circuit shall be provided to supply the bathroom(s) receptacle outlet(s). Such circuits shall have no other outlets. [CEC 210.11(C)(3)]
- Exception: Where the 20-ampere circuit supplies a single bathroom, outlets for other equipment within the same bathroom shall be permitted to be supplied in accordance with 21 0.23 (A)(1) and (A)(2).
- In dwelling units, at least one receptacle outlet shall be installed in bathrooms within 3 feet of the outside edge of each basin. The receptacle outlet shall be located on a wall or partition that is adjacent to the basin or basin countertop, located on the countertop, or installed on the side or face of the basin cabinet. In no case shall the receptacle be located more than 12 inches below the top of the basin or basin countertop. Receptacle outlet assemblies listed for use in countertops shall be permitted to be installed in the countertop. [CEC 210.52(D)]
- At least one wall switch-controlled lighting outlet shall be installed in every habitable room and bathroom. [CEC 210.70(A)(1)]
- Ground-fault circuit-interrupter protection for personnel shall be provided for cables installed in electrically heated floors of bathrooms and in hydromassage bathtub locations. [CEC 424.44(G)]
- At least one receptacle outlet shall be installed in bathrooms within 36 inches of the outside edge of each basin. The receptacle outlet shall be located above or adjacent to the basin location. This receptacle shall be in addition to any receptacle that is a part of a luminaire or appliance. The receptacle shall not be enclosed within a bathroom cabinet or vanity. [CEC 550.13(D)(9)]
- For the connection of pipe heating cable(s), a receptacle outlet shall be located on the underside of the unit connected to an interior branch circuit, other than a small appliance branch circuit. It shall be permitted to use a bathroom receptacle circuit for this purpose. [CEC 550.13(E)(2)]
- Luminaires, switches, receptacles, and other electrical equipment located in the same room, and not directly associated with a hydromassage bathtub, shall be installed in accordance with the requirements of Chapters 1 through 4 in this Code covering the installation of that equipment in bathrooms. [CEC 680.72]

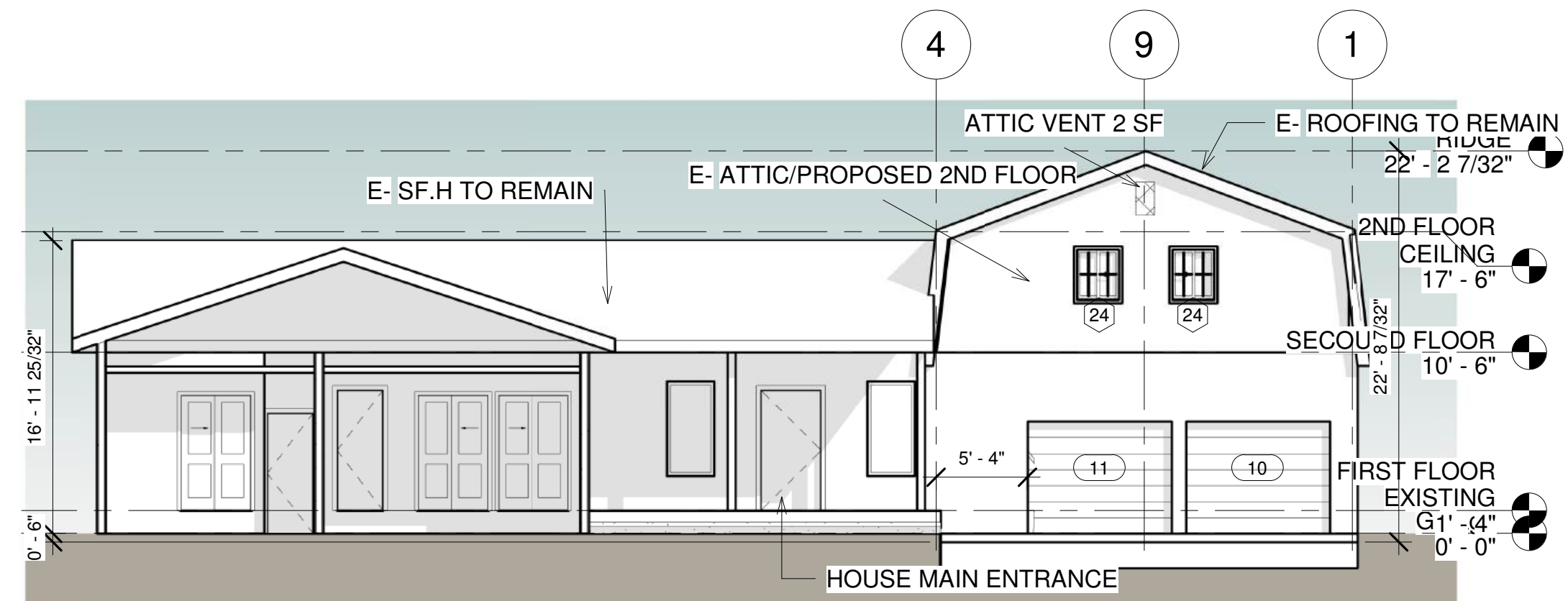
5 BATHROOM ELECTRICAL NOTE:
1 1/2" = 1'-0"

06/01/2022

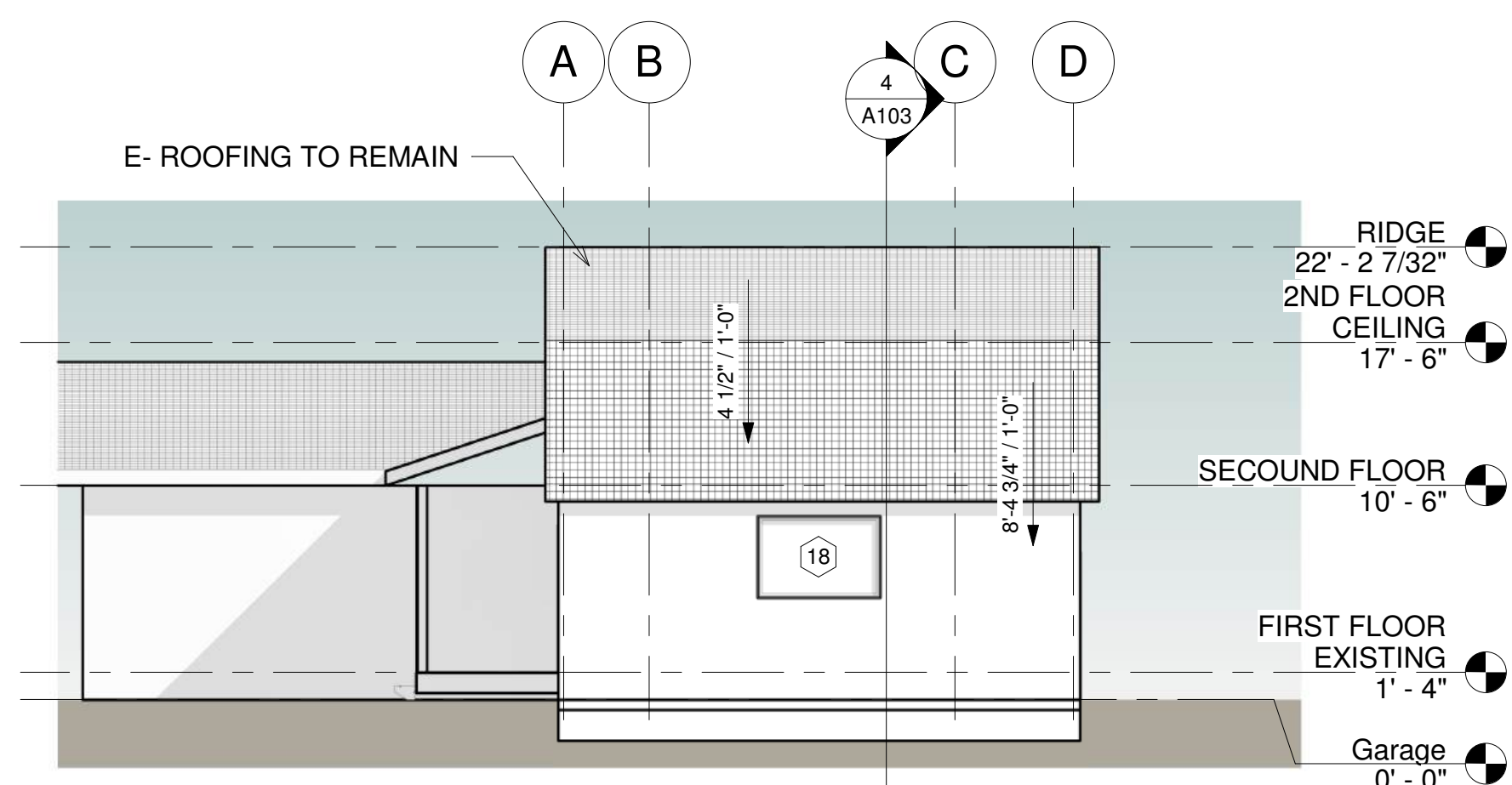




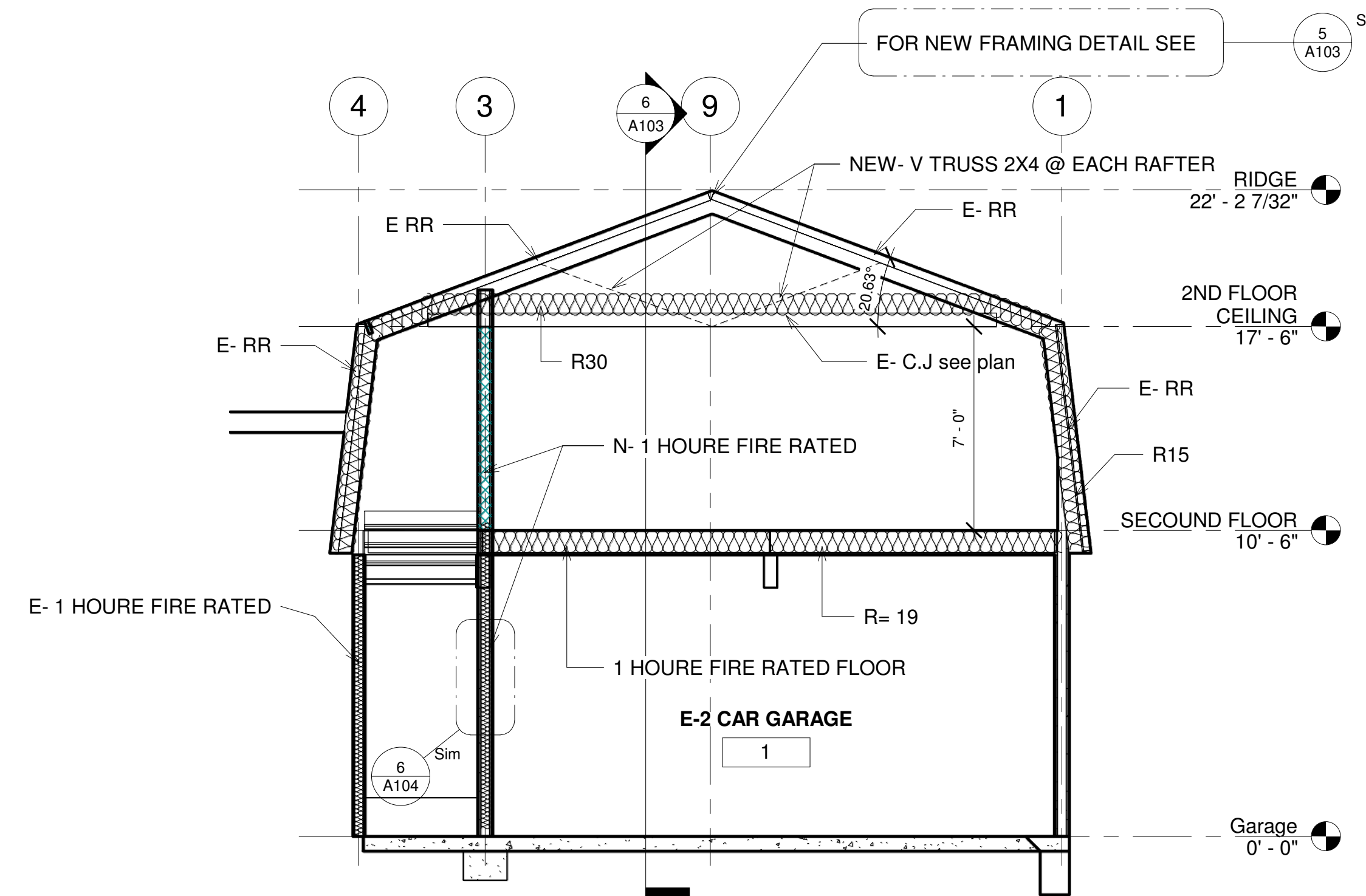
1 East
1/8" = 1'-0"



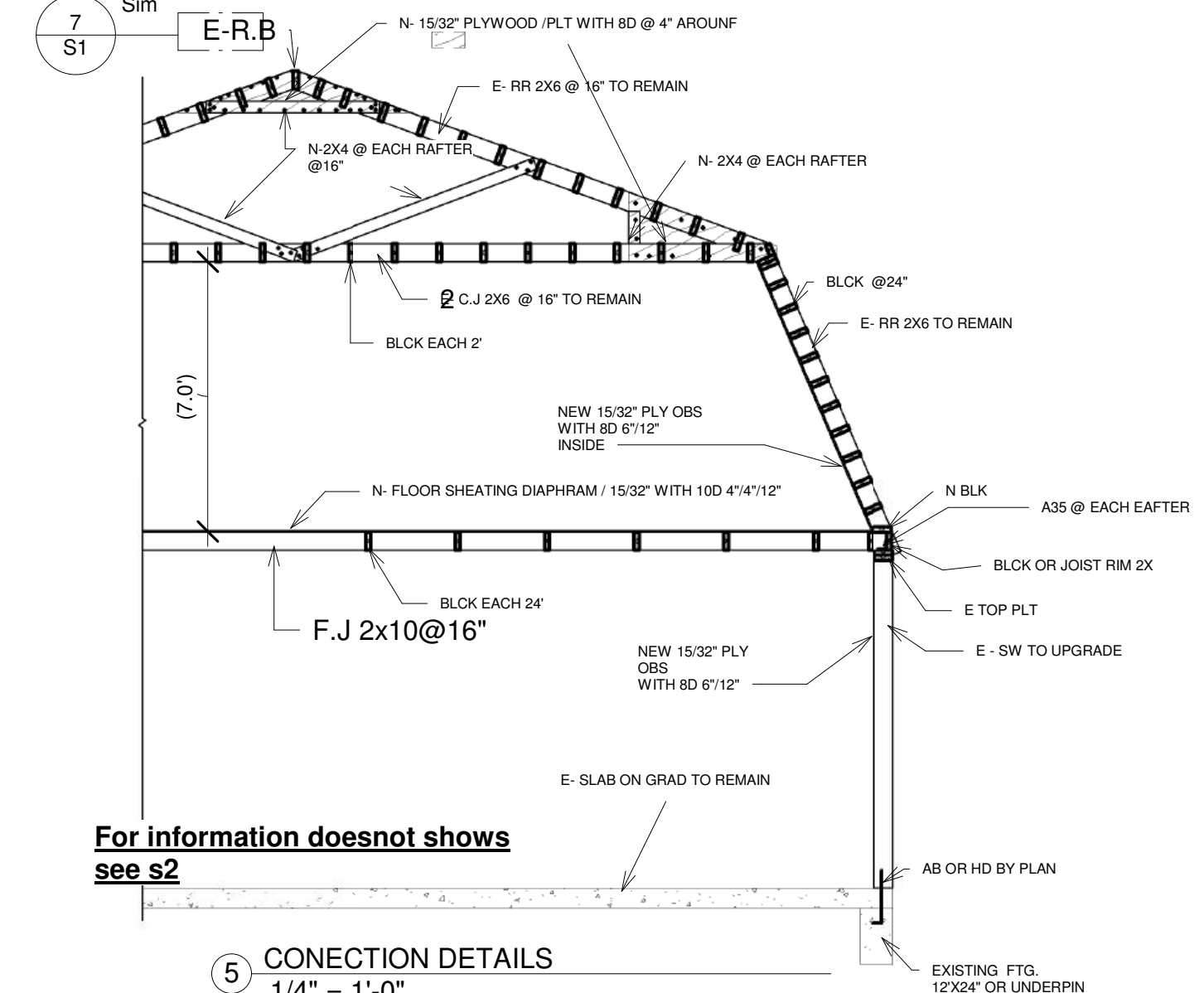
3 West
1/8" = 1'-0"



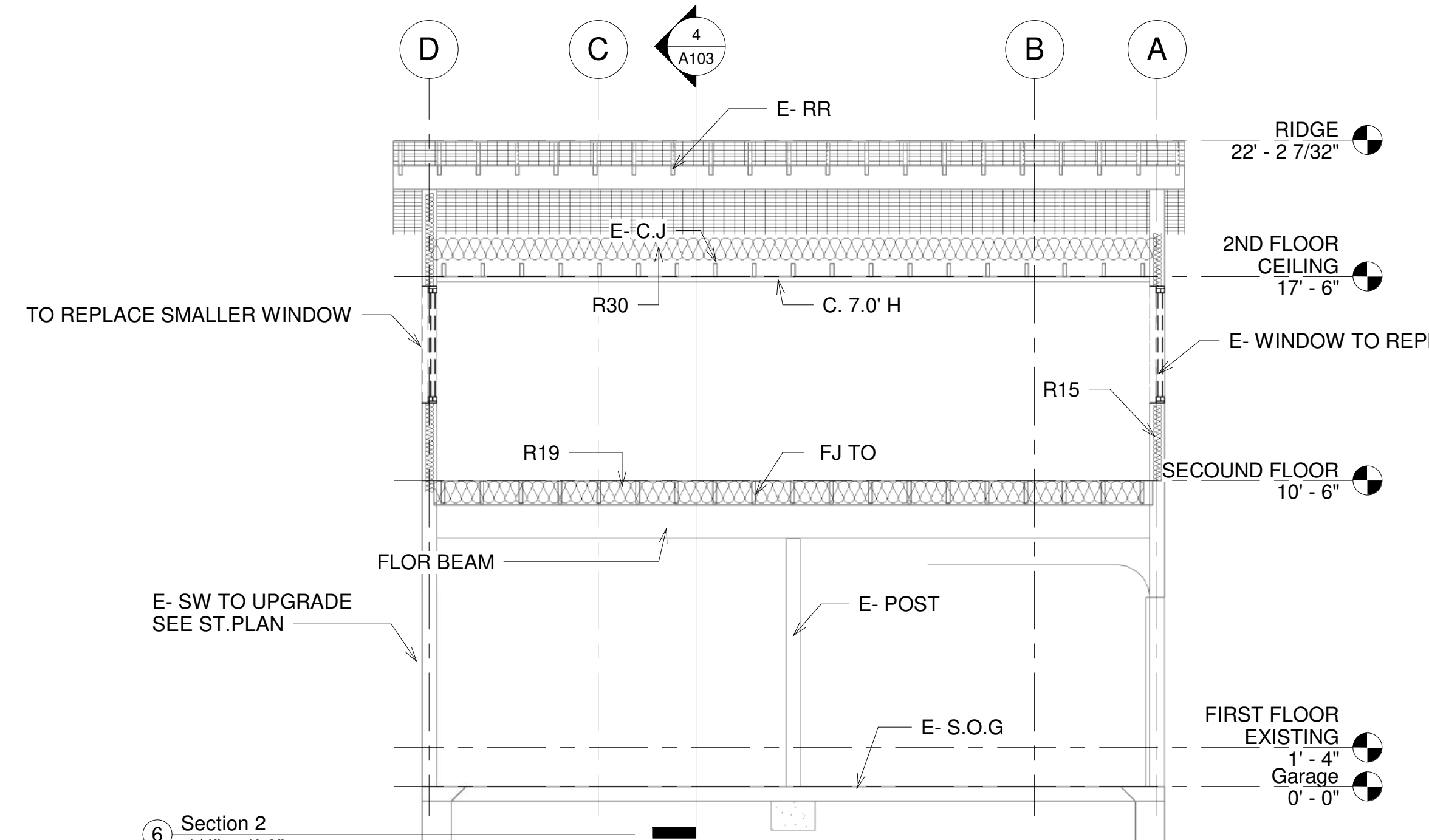
2 South
1/8" = 1'-0"



1 Section 1
1/4" = 1'-0"



4 Section 4
1/4" = 1'-0"



2 Section 2
1/4" = 1'-0"



GEORGE BOULES, PE
20016 LULL ST, 91306

29082 MADRID PL.
91384

ALL WORK PLAN SHALL CONFORM TO 2019 CBC,CMC, CPC,CEC, AND CES
READ COVER SHEET, GENERAL DETAILS WHEN AVAILABLE IN THE DOCUMENTS

AVRAHAM RESIDENCE

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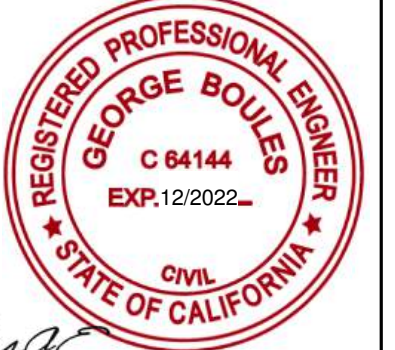
BUL. DEPARTMENT CORRECTION:

Revision #	REV:	Date

SHEET
ELEVATIONS AND SECTIONS
JOB Project Number
SHEET

A103





ALL WORK PLAN SHALL CONFORM TO 2019 CBC, CMIC, CPC, CEC, AND CES
READ COVER SHEET, GENERAL DETAILS WHEN AVAILABLE IN THE DOCUMENTS

Owner: AVRAHAM REHONITZ

AVRAHAM RESIDANCE

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BUL. DEPARTMENT CORRECTION:

Revision		
#	REV:	Date

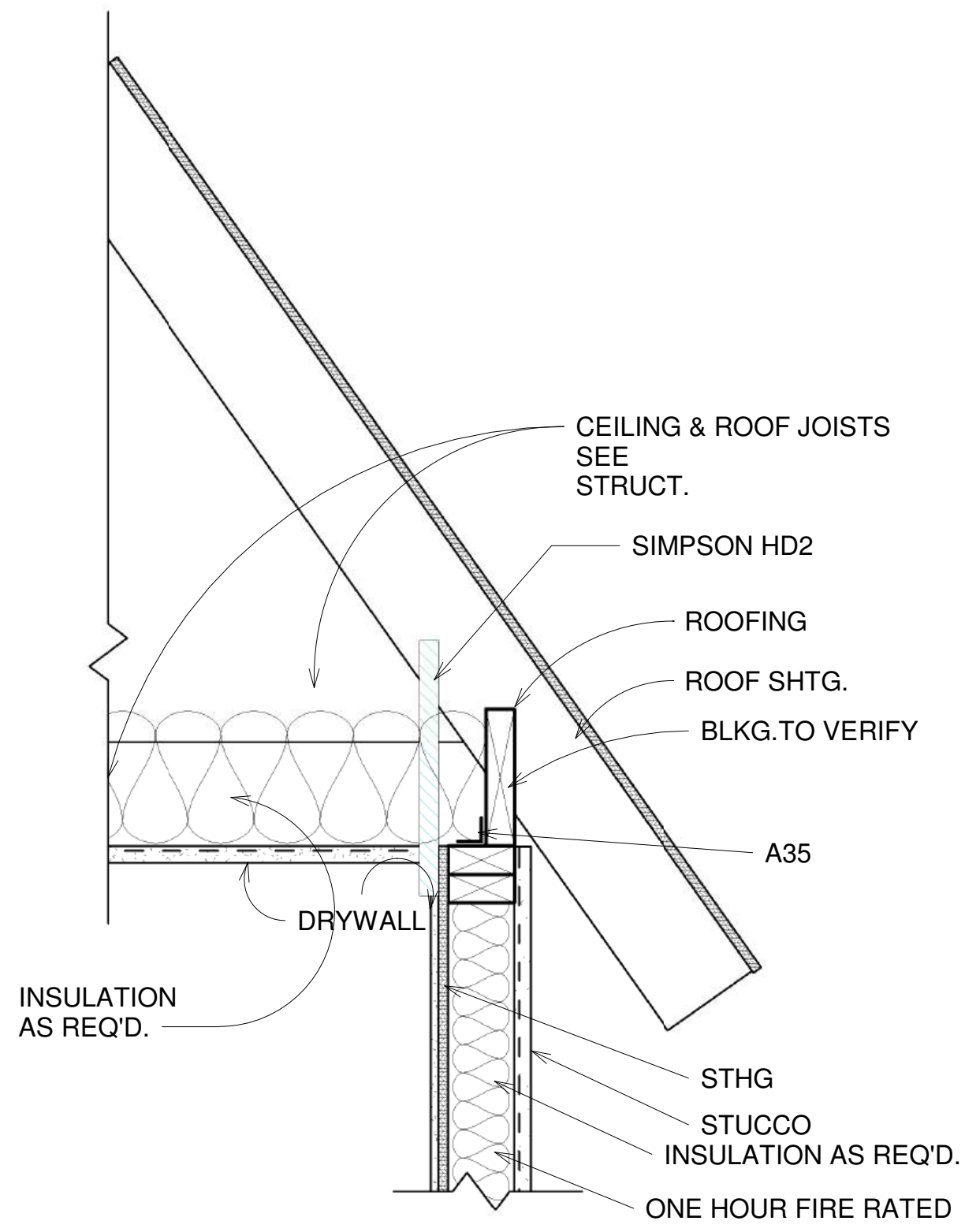
SHEET ARCH. DETAILS

JOB Project Number
SHEET

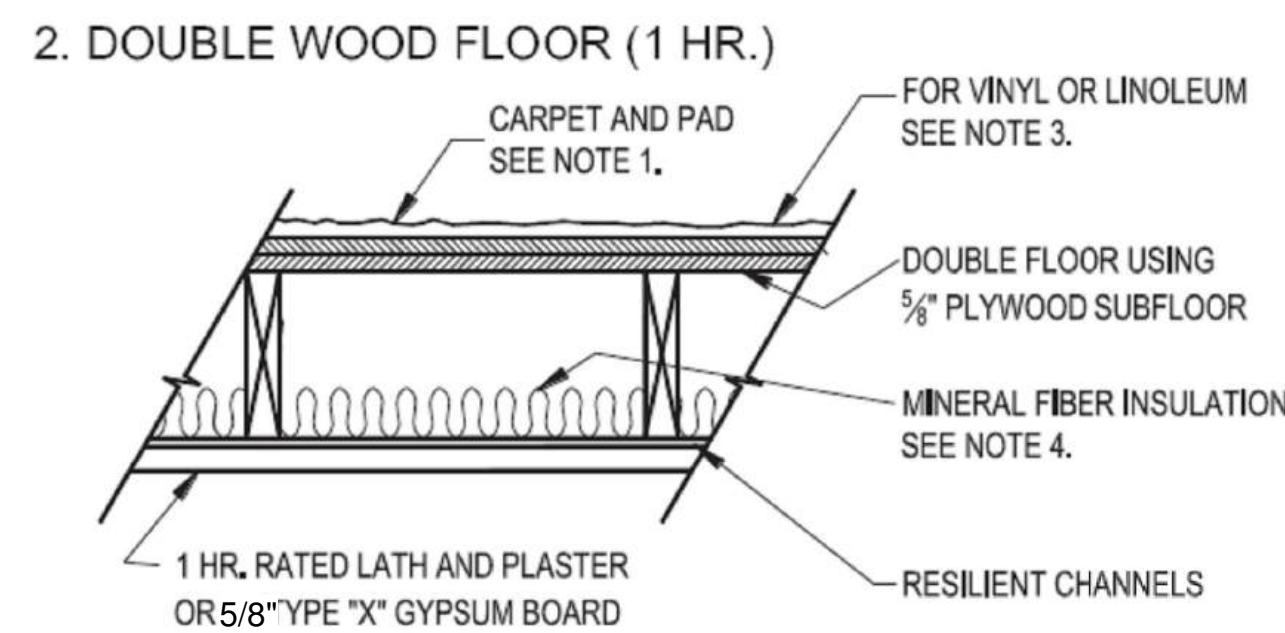
A104

2-474 BARBARA DR SANTA ROSA, CA 93012

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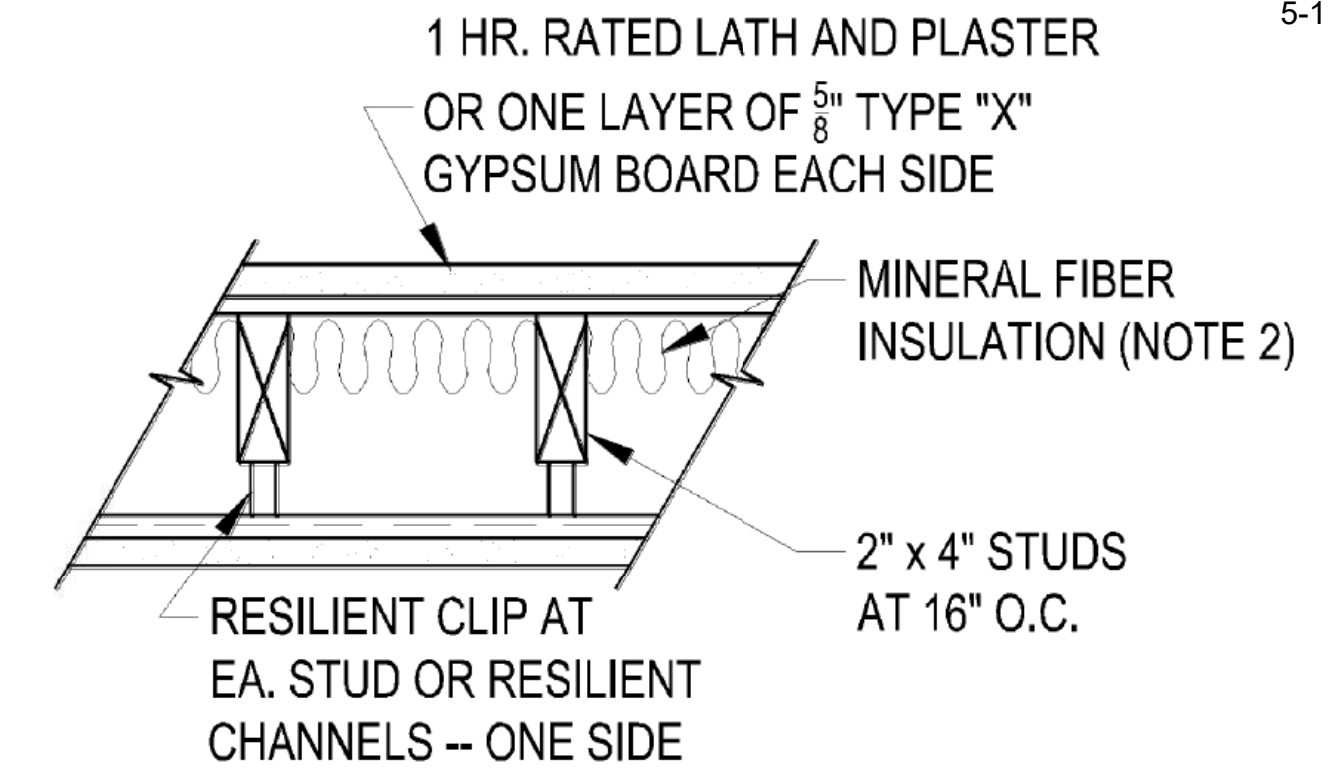


1 EAV DETAIL
1 1/2" = 1'-0"



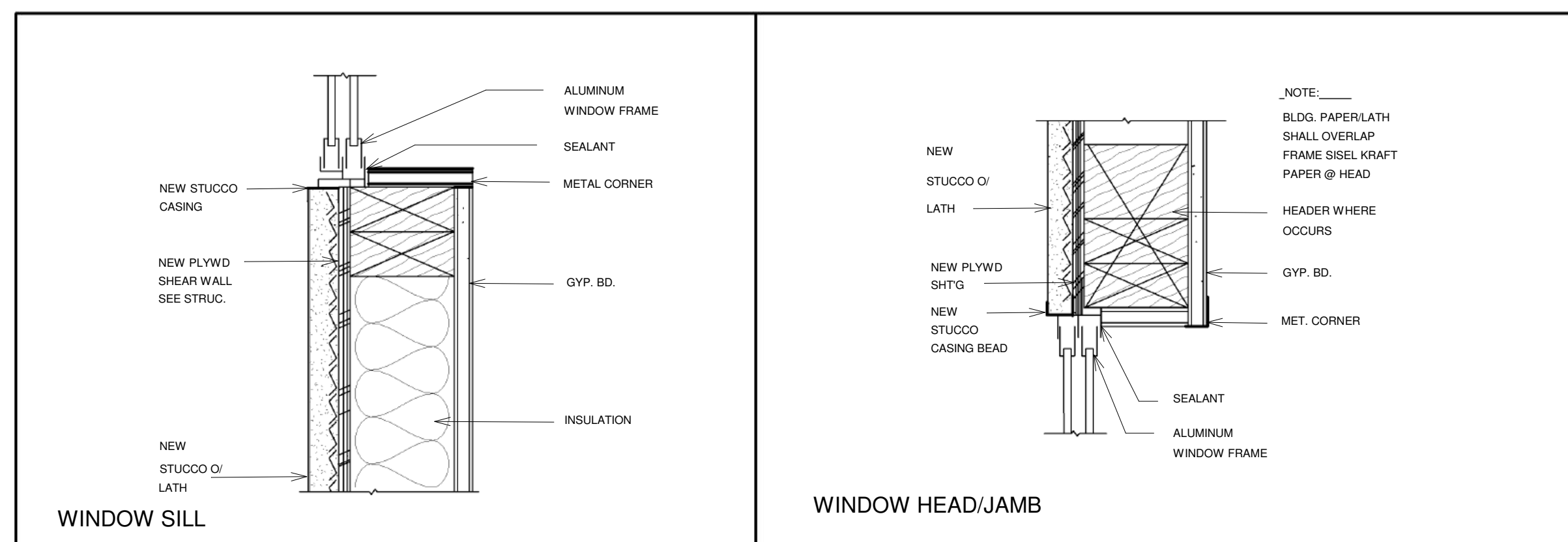
7 1 HOUR FIRE RATED FLOOR
1 1/2" = 1'-0"

1. 1 HR. FIRE RATING

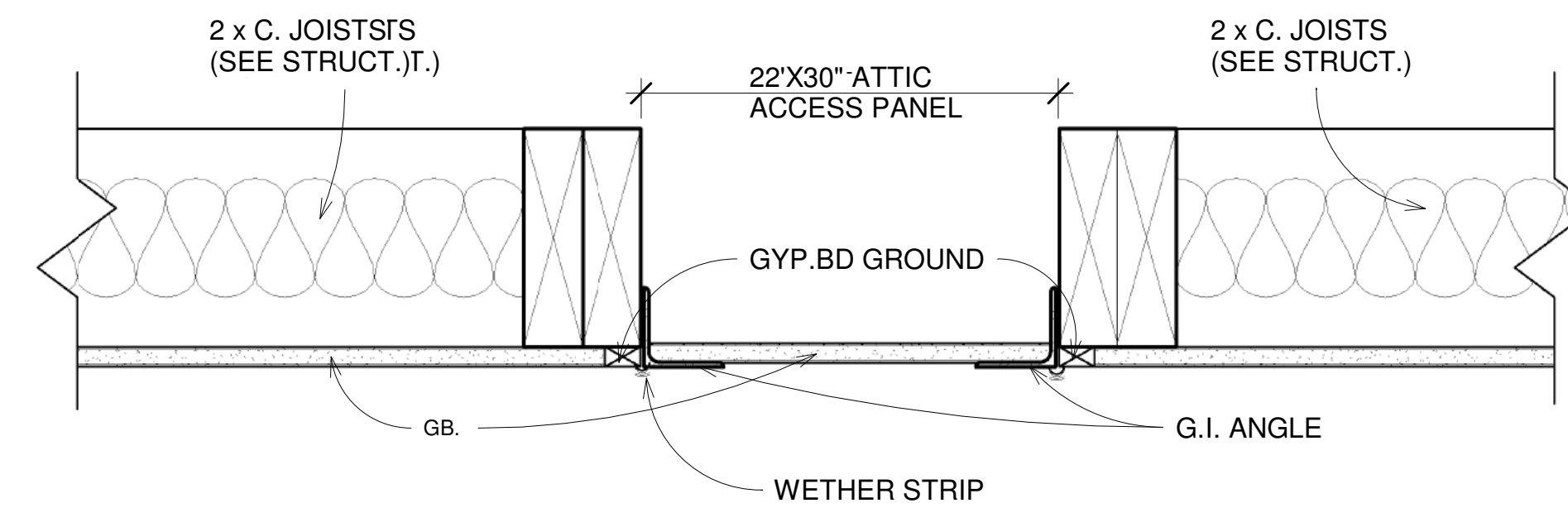


6 1 HOUR FIRE RATED PARTITION .
STC50
3" = 1'-0"

george boules
5-11-22



5 WINDOW SILL/ HEAD
1/4" = 1'-0"



4 ATIC ACCESS
3" = 1'-0"

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06/01/2022



water efficiency and conversation:

- 1- "The flow rates for all new plumbing fixtures shall comply with the maximum flow rates specified in Section 4.303.1"
- 2- When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other outlets controlled by a single valve shall not exceed 2.0 gallons per minute at 80 psi, or the shower shall be designed to only allow one showerhead to be in operation at a time." (4.303.1.3.2)
- 3- For additions and alterations where the entire potable water system is being replaced, "The hot water system shall not allow more than 0.6 gallons of water to be delivered to any fixture before hot water arrives or shall comply with either Los Angeles Plumbing Code Section 610.4.1.2 or 610.4.1.3."

MATERIAL CONVERSATION AND RESOURCE EFFICIENCY

- 1- Annular spaces around pipes, electric cables, conduits, or other openings in the sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry, or metal plates. Piping prone to corrosion shall be protected in accordance with Section 313.0 of the Los Angeles Plumbing Code. (4.406.1)
- 2- Materials delivered to the construction site shall be protected from rain or other sources of moisture. (4.407.4)
- 3- Construction waste shall be reduced by 65%. Indicate how construction waste will be handled:
 - a. City of Los Angeles certified hauler
- 4- "An Operation and Maintenance Manual including, at a minimum, the items listed in Section 4.410.1, shall be completed and placed in the building at the time of final inspection." Form GRN 6 (4.410.1)

GARAGE AND CARPORT:

1- Ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a min no 26 gages Sheet steel or other approved material and shall not have openings into the garage (R302.5.2)

2- OTHER PENETRATION OF GARAGE/DWELLING CEILINGS AND WALLS SHALL BE PROTECTED AS REQUIRED BY SEC. R302.11 ITEM 4 (r 302.5.3)

3- GARAGE FLOOR SURFACE SHALL BE APPROVED NONCOMBUSTIBLE, AND THE AREA USED TO PARK Veh. SHALL BE SLOPED TO A DRAIN OR TOWARD THE MAIN Veh. ENTERING DOOR

Green & GLAZING & SECURITY & GEN. REQUIRMENT
1 1/2" = 1'-0"

ENVEROMENTAL QUALITY

- 1- "All duct and other related air distribution component openings shall be covered with tape, plastic, or sheet metal until the final startup of the heating, cooling and ventilating equipment." (4.504.1)
- 2- "Architctural paints and coatings, adhesives, caulks and sealants shall comply with the Volatile Organic Compound (VOC) limits listed in Tables 4.504.1- 4.504.3." (4.504.2.1-4.504.2.3)
- 3- The VOCs and Formaldehyde Limits, Form GRN 11, shall be incorporated into the plans.
- 4-
 - a. The VOC Content Verification Checklist, Form GRN 2, shall be completed and verified prior to final inspection approval. The manufacturer's specifications showing VOC content for all applicable products shall be readily available at the job site and be provided to the field inspector for verification. (4.504.2.4)

- b. All new carpet installed in the building interior shall meet the testing and product requirements of one of the following:
 - i. Carpet and Rug Institute's Green Label Plus Program
 - ii. California Department of Public Health's Specification 01350
 - iii. NSF/ANSI 140 at the Gold level
 - iv. Scientific Certifications Systems Indoor Advantage™ Gold (4.504.3)

c. All new carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program. (4.504.3.1)

- d. 80% of the total area receiving resilient flooring shall comply with one or more of the following:
 - i. Certified as a CHPS Low-Emitting Material in the CHPS High Performance Products Database
 - ii. Certified under UL GREENGUARD Gold
 - iii. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program
 - iv. Meet the California Department of Public Health's Specification 01350

e. New hardwood plywood, particle board, and medium density fiberboard composite wood products used in the interior or exterior of the building shall meet the formaldehyde limits listed in Table 4.504.5. (4.504.5)

f. The Formaldehyde Emissions Verification Checklist, Form GRN 3, shall be completed prior to final inspection approval. The manufacturer's specifications showing formaldehyde content for all applicable wood products shall be readily available at the job site and be provided to the field inspector for verification. (4.504.5)

h. Building materials with visible signs of water damage shall not be installed. Wall and floor framing shall not be enclosed until it is inspected and found to be satisfactory by the building inspector. (4.505.3)

i. The heating and air-conditioning systems shall be sized and designed using ANSI/ACCA Manual J2011, ANSI/ACCA 29-D-2014 or ASHRAE handbooks and have their equipment selected in accordance with ANSI/ACCA 3 Manual S-2014. (4.507.2)

GLAZING

Glazing in the following locations shall be safety glazing conforming to the human impact loads of Section R308.3 (see exceptions) (R308.4):

- a. Fixed and operable panels of swinging, sliding and bi-fold door assemblies.
- b. Glazing in an individual fixed or operable panel adjacent to a door where the nearest vertical edge is within a 24-inch arc of either vertical edge of the door in a closed position and whose bottom edge is less than 60 inches above the floor or walking surface.
- c. Glazing in an individual fixed or operable panel that meets all of the following conditions:
 - iii. Exposed area of an individual pane greater than 9 square feet.
 - iv. Bottom edge less than 18 inches above the floor.
 - v. Top edge greater than 36 inches above the floor.
 - vi. One or more walking surfaces within 36 inches horizontally of the glazing
- d. Glazing in guards and railings

e. Glazing in enclosures for or walls facing hot tubs, whirlpools, saunas, steam rooms, bathtubs and showers where the bottom edge of the glazing is less than 60 inches measured vertically above any standing or walking surface.

f. Glazing in walls and fences adjacent to indoor and outdoor swimming pools, hot tubs and spas where the bottom edge of the glazing is less than 60 inches, measured horizontally and in a straight line, of the water's edge.

g. Glazing where the bottom exposed edge of the glazing is less than 36 inches above the plane of the adjacent walking surface of stairways, landings between flights of stairs and ramps.

h. Glazing adjacent to the landing at the bottom of a stairway where the glazing is less than 36 inches above the landing and within a 60 inch horizontal arc less than 180 degrees from the bottom tread nosing

4. Skylights and sloped glazing shall comply with Section R308.6.

5. Lots shall be graded to drain surface water away from foundation walls with a minimum fall of 6 inches within the first 10 feet (R401.3).

6. Dampproofing, where required, shall be installed with materials and as required in Section R406.1.

7. Vehicular access doors shall comply with Section R609.4.

8. Buildings shall have approved address numbers, building numbers or approved building identification placed in a position that is plainly legible and visible from the street or road fronting the property. (R319.1)

9. Protection of wood and wood based products from decay shall be provided in the locations specified per Section R317.1 by the use of naturally durable wood or wood that is preservative-treated in accordance with AWPA U1 for the species, product, preservative and end use. Preservatives shall be listed in Section 4 of AWPA U1.

10. Provide anti-Graffiti finish within the first 9 feet, measured from grade, at exterior walls and doors. Exception: Maintenance of building affidavit is recorded by the owner to covenant and agree with the City of Los Angeles to remove any graffiti within 7-days of the graffiti being applied. (6306).

GENERAL BUILDING REQUIREMENT

a- The construction shall not restrict a five-foot clear and unobstructed access to any water or power distribution facilities (Power poles, pull-boxes, transformers, vaults, pumps, valves, meters, appurtenances, etc.) or to the location of the hook-up. The construction shall not be within ten feet of any power lines-whether or not the lines are located on the property. Failure to comply may cause construction delays and/or additional expenses.

b- An approved Seismic Gas Shutoff Valve will be installed on the fuel gas line on the downstream side of the utility meter and be rigidly connected to the exterior of the

c- building or structure containing the fuel gas piping. (Per Ordinance 170,158) (Separate plumbing permit is required).

d- Plumbing fixtures are required to be connected to a sanitary sewer or to an approved sewage disposal system (R306.3).

e- Kitchen sinks, lavatories, bathtubs, showers, bidets, laundry tubs and washing machine outlets shall be provided with hot and cold water and connected to an approved water supply (R306.4).

f- Bathtubs and shower floors, walls above bathtubs with a showerhead, and shower compartments shall be finished with a nonabsorbent surface. Such wall surfaces shall extend to a height of not less than 6 feet above the floor (R307.2).

g- Provide ultra-low flush water closets for all new construction. Existing shower heads and toilets must be adapted for low water consumption. Unit Skylights shall be labeled by a LA City Approved Labeling Agency. Such label shall state the approved labeling agency name, product designation and performance grade rating. (Research Report not required). (R308.6.9)

h- Water heater must be strapped to wall. (Sec. 507.3, LAPC) j- For existing pool on site, provide an alarm for doors to the dwelling that form a part of the pool enclosure. The alarm shall sound continuously for a min. of 30 seconds when the door is opened. It shall automatically reset and be equipped with a manual means to deactivate (for 15 secs. max.) for a single opening. The deactivation switch shall be at least 54" above the floor. (6109 of I-ABC)

k- For existing pool on site, provide anti-entrapment cover meeting the current ASTM or ASME for the suction outlets of the swimming pool, toddler pool and spa for single family dwellings per Assembly Bill (AB) No. 2977. (3162B)

m- Automatic garage door openers, if provided, shall be listed in accordance with UL 325. (R309.4)

n- Where a permit is required for alterations, repairs or additions exceeding one thousand dollars (\$1,000), existing dwellings or sleeping units that have attached garages or fuel-burning appliances shall be provided with a carbon monoxide alarm in accordance with Section R315.2. Carbon monoxide alarms shall only be required in the specific dwelling unit or sleeping unit for which the permit was obtained. (R315.2.2)

o- Every space intended for human occupancy shall be provided with natural light by means of exterior glazed openings in accordance with Section R303.1 or shall be provided with artificial light that is adequate to provide an average illumination of 6 foot-candles over the area of the room at a height of 30 inches above the floor level. (R303.1)

A copy of the evaluation report and/or conditions of listing shall be made available at the job site

SECURITY

information and other information, read the master lan check list attached, Information Bulletins, Affidavits and forms may be obtained from our web site (www.ladbs.org)

1- All entry doors to dwelling units or guest rooms shall be arranged so that the occupant has a view of the area immediately outside the door without opening the door. Such view may be provided by a door viewer, through windows located in the vicinity of the door or through view ports in the door or adjoining wall. (6706)

2- Screens, barricades, or fences made of a material which would preclude human climbing shall be provided at every portion of every roof, balcony, or similar surface which is within 8 ft. of the utility pole or similar structures. (6707)

3- Wood flush-type doors shall be 1-3/8" thick minimum with solid core construction. 91.6709.1 - Door stops Of in-swinging doors shall be of one-piece construction with the jamb or joined by rabbet to the jamb. (6709.4)

4- Every door in a security opening for an apartment house shall be provided with a light bulb (60 watt min.) At a maximum height of 8 feet on the exterior. (6708)

5- All pin-type door hinges accessible from outside shall have non-removable hinge pins. Hinges shall have min. 1/4" dia. steel jamb stud with 1/4" min. protection. The strike plate for latches and holding device for projecting dead bolts in wood construction shall be secured to the jamb and the wall framing With screws no less than 2-1/2" long. (6709.5, 6709.7)

6- Provide dead bolts with hardened inserts; deadlocking latch with key-operated locks on exterior. Doors must be operable from the inside without a key, special knowledge, or special effort (latch not required in B, F, and S occupancies). (6709.2)

7- Straight dead bolts shall have a min. throw of 1" and an embedment of not less than 5/8", and a hook-shaped or an expanding-lug deadbolt shall have a minimum throw of 3/4". (6709.2)

8- Wood panel type doors must have panels at least 9/16 in. thick with shaped portions not less than 1/4 in. thick and individual panels must be no more than 300 sq. in. in area. Mullions shall be considered a part of adjacent panels except mullions not over 18 inches long may have an overall width of not less than 2 inches. Slits and rails shall be of solid lumber in thickness with overall dimensions of not less than 1-3/8 inches and 3 inches in width. (91.6709.1 Item 2)

9- Sliding doors shall be provided with a device in the upper channel of the moving panel to prohibit raising and removing of the moving panel from track while in the closed position. (6710)

10- Sliding glass doors panels shall be closed and locked when subjected to the tests specified in Sec. 6717.1

11- Metal or wooden overhead or sliding doors shall be secured with a cylinder lock, padlock with a min. 9/32" diameter hardened steel shackle and bolted, hardened steel hasps, metal slide board, bolt or equivalent device unless secured electrically operated. (6711)

12- Provide metal guides at top and bottom of metal accordion grate or grille-type doors and cylinder locks or padlocks. Cylinder guards shall be installed on all cylinder locks whenever the cylinder projects beyond the face of the door or is otherwise accessible to prying tools. (6712)

In Group B, F, M, and S occupancies, panes of glazing with at least one dimension greater than 5 in. but less than 48 in., shall be constructed of tempered or approved burglary-resistant material or protected with metal bars or grilles (6714)

13- Glazed openings within 40" of the required locking device of the door, when the door is in the closed and locked position and when the door is operable from the inside without use of key, shall be fully tempered glass per Section 2406, or approved burglary resistant material, or shall be protected by metal bars, screens or grills having a maximum opening of 2". The provisions of this section shall not apply to slide glass doors which conform to the provisions of Section 6710 or to view ports or windows which do not exceed 2" in their greatest dimensions. (6713)

14- Louvered windows shall be protected by metal bars or grills with openings that have at least one dimension of 6" or less, which are constructed to preclude human entry. (6715.3)

15- Louvered windows shall be protected by metal bars or grills with openings that have at least one dimension of 6" or less, which are constructed to preclude human entry. (6715.3)

16- Other operable windows shall be provided with substantial locking devices. In Group B, F, M and S occupancies, such devices shall be glide bars, bolts, cross-bars, and/or padlocks with minimum 9/32" hardened steel shackles and bolted, hardened steel hasps. (6715.2)

17- Sliding windows shall be provided with locking devices. A device shall be installed in the upper channel of the moving panel to prohibit raising and removing of the moving panel in the closed or partially open position. 6715.1

18- Sliding glass windows sash shall be closed and locked when subjected to the tests specified in Sec. 6717.2.

19- Any release for metal bars, grills, grates or similar devices constructed to preclude human entry that are installed shall be located on the inside of the adjacent room and at least 24 inches from the closest opening through such metal bars, grills, grates or similar devices that exceeds two inches in any dimension. (6715.4)

20- All other openings other than doors or glazed openings must be protected by metal bars or grilles with openings of not less than 6 inches in one dimension. (6716.6)

george boules



GEORGE BOULES, PE
20016 LULL ST, 91306



29082 MADRID PL.
91384

ALL WORK PLAN SHALL CONFORM TO 2019 CBC,CMC, CPC,CEC, AND CES
READ COVER SHEET, GENERAL DETAILS WHEN AVAILABLE IN THE DOCUMENTS

AVRAHAM RESIDANCE

NOTICE TO BUILDER: CONFLICTS, MISTAKES AND ERRORS MAY OCCUR IN ALL CONSTRUCTION DOCUMENTS. IT IS THE RESPONSIBILITY OF THE BUILDER TO REVIEW ALL DRAWINGS PRIOR TO START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY POTENTIAL PROBLEMS. FAILURE TO REVIEW PLANS CAN RESULT IN CHANGES TO THE PLAN DURING CONSTRUCTION.

BUL. DEPARTEMENT CORRECTION:

Revision	
#	REV: Date

SHEET
ARCH. NOTE-GREEN & GLAZING
JOB Project Number
SHEET

A105



06/01/2022

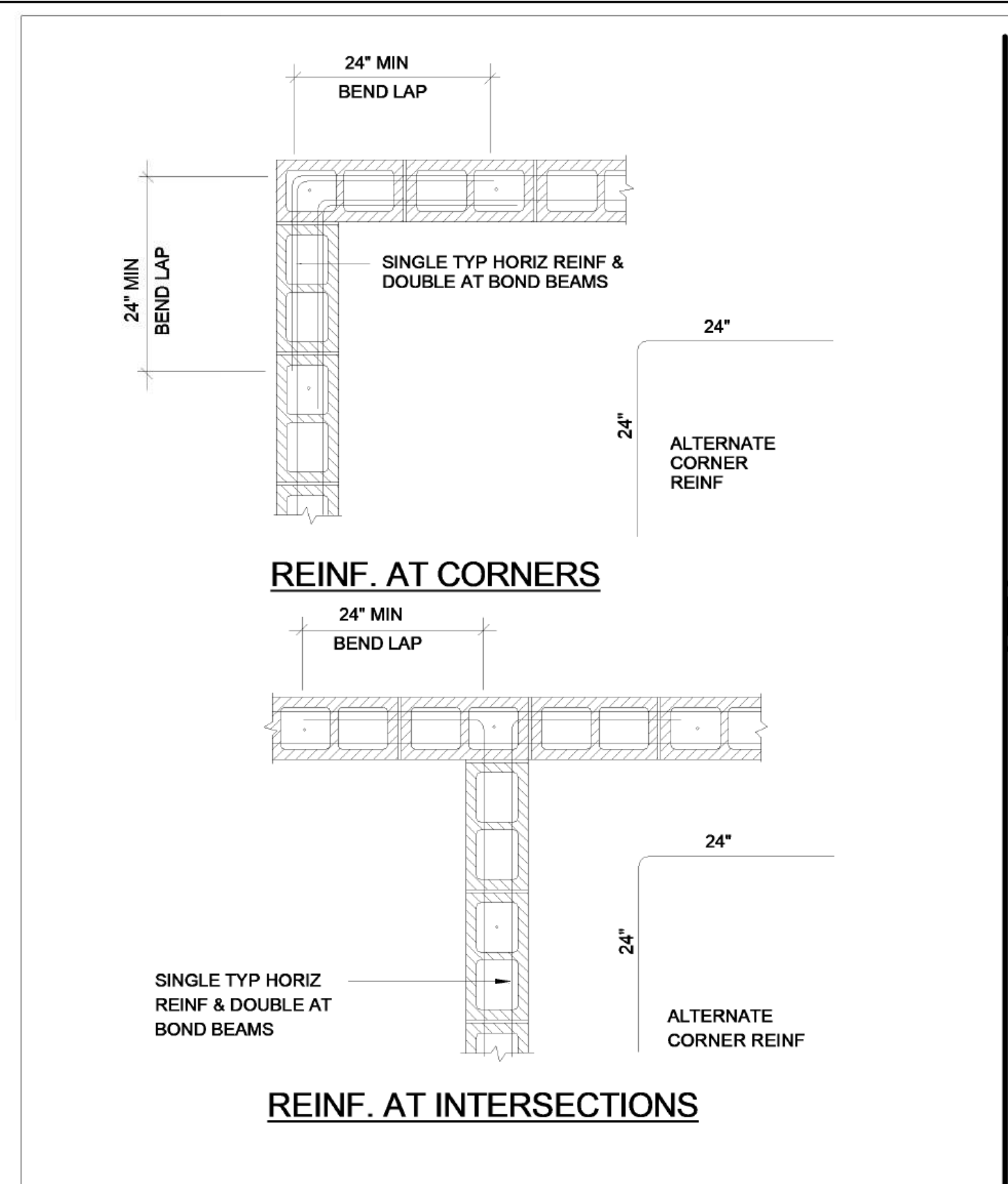
Catherine Wilson
Division of Building and Safety

Owner: AVRAHAM REHCNITZ

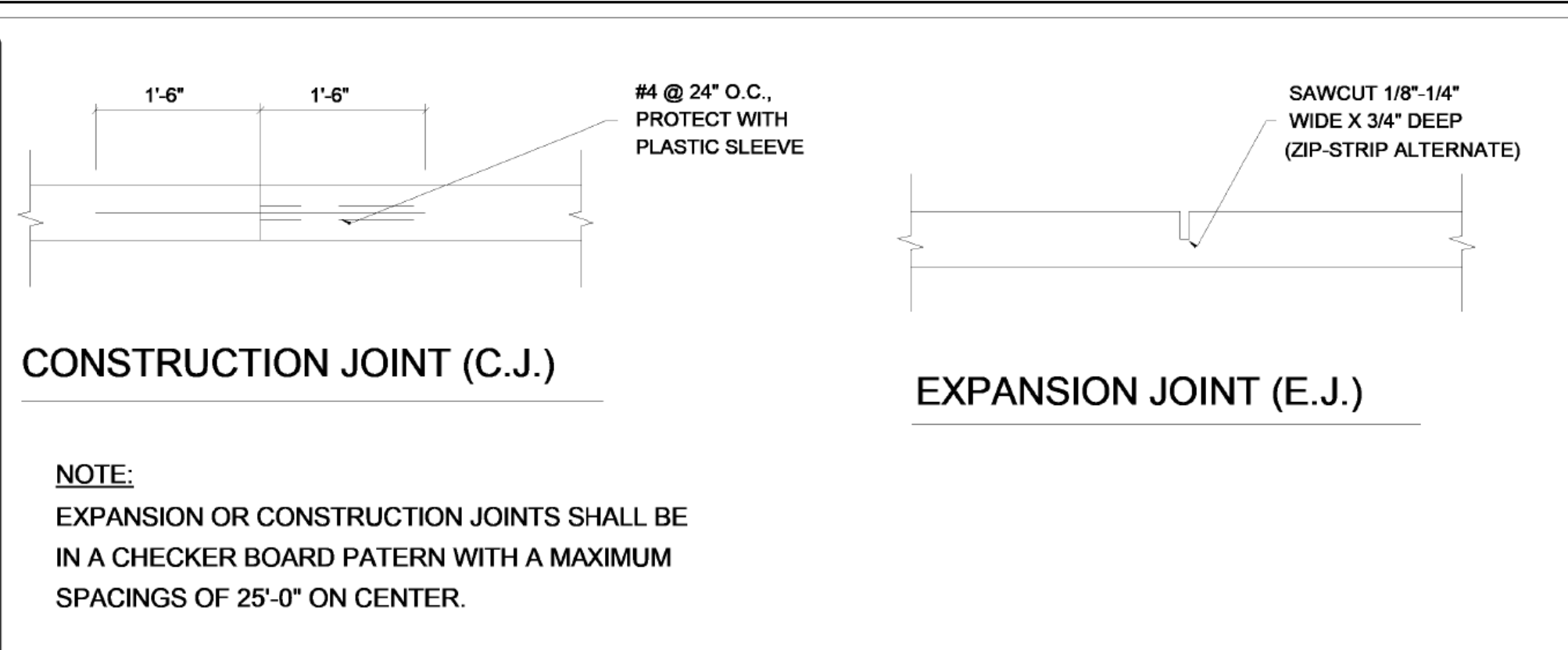
2474 BARBARA DR SANTA ROSA, CA 93012

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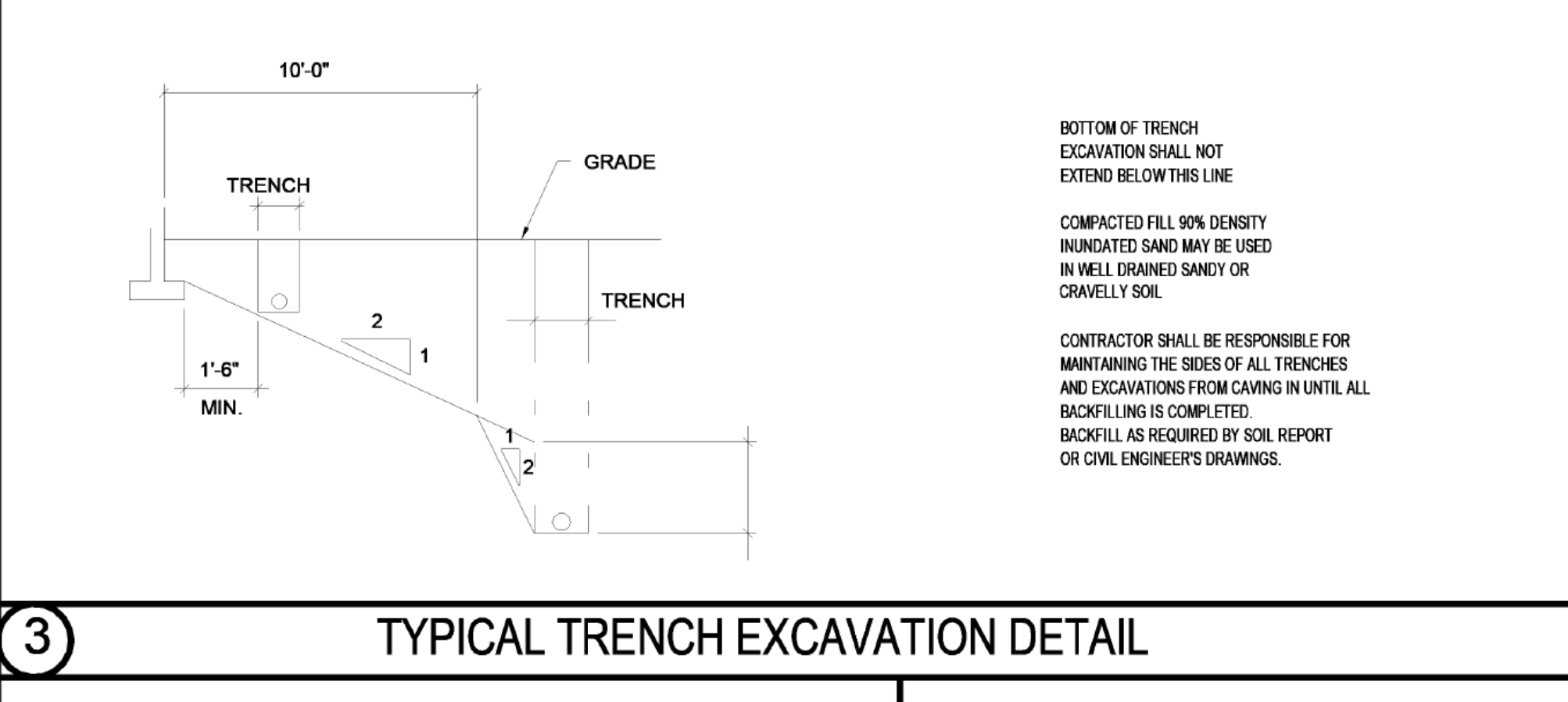
This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building Inspection Dept., County of Ventura. The stamping of this plan and specifications SHALL NOT be held to permit or to be an approval of the violation of any provisions of any County Ordinance of State Law.



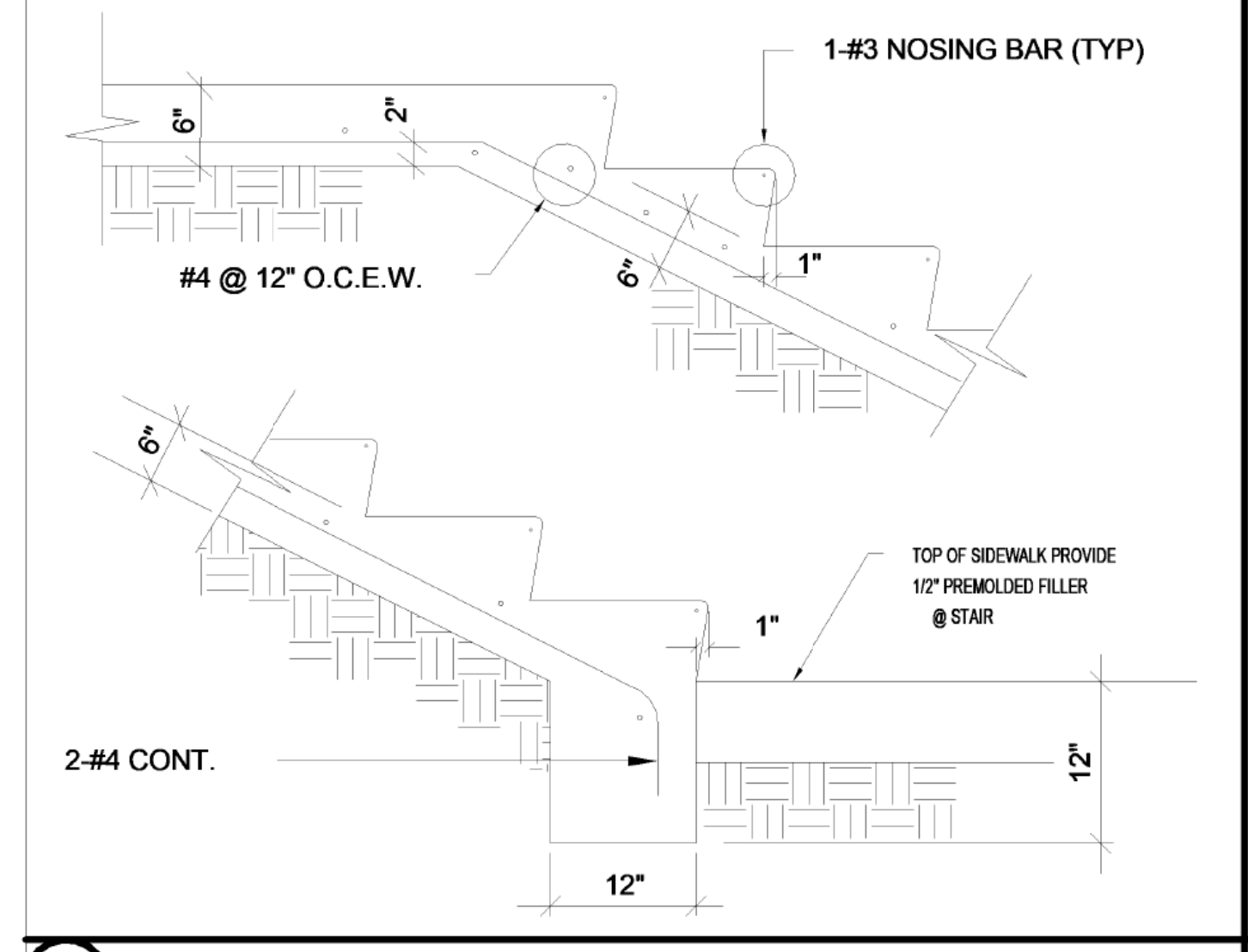
1 TYP. REBAR LAP AT FTNG. INTERSECTION



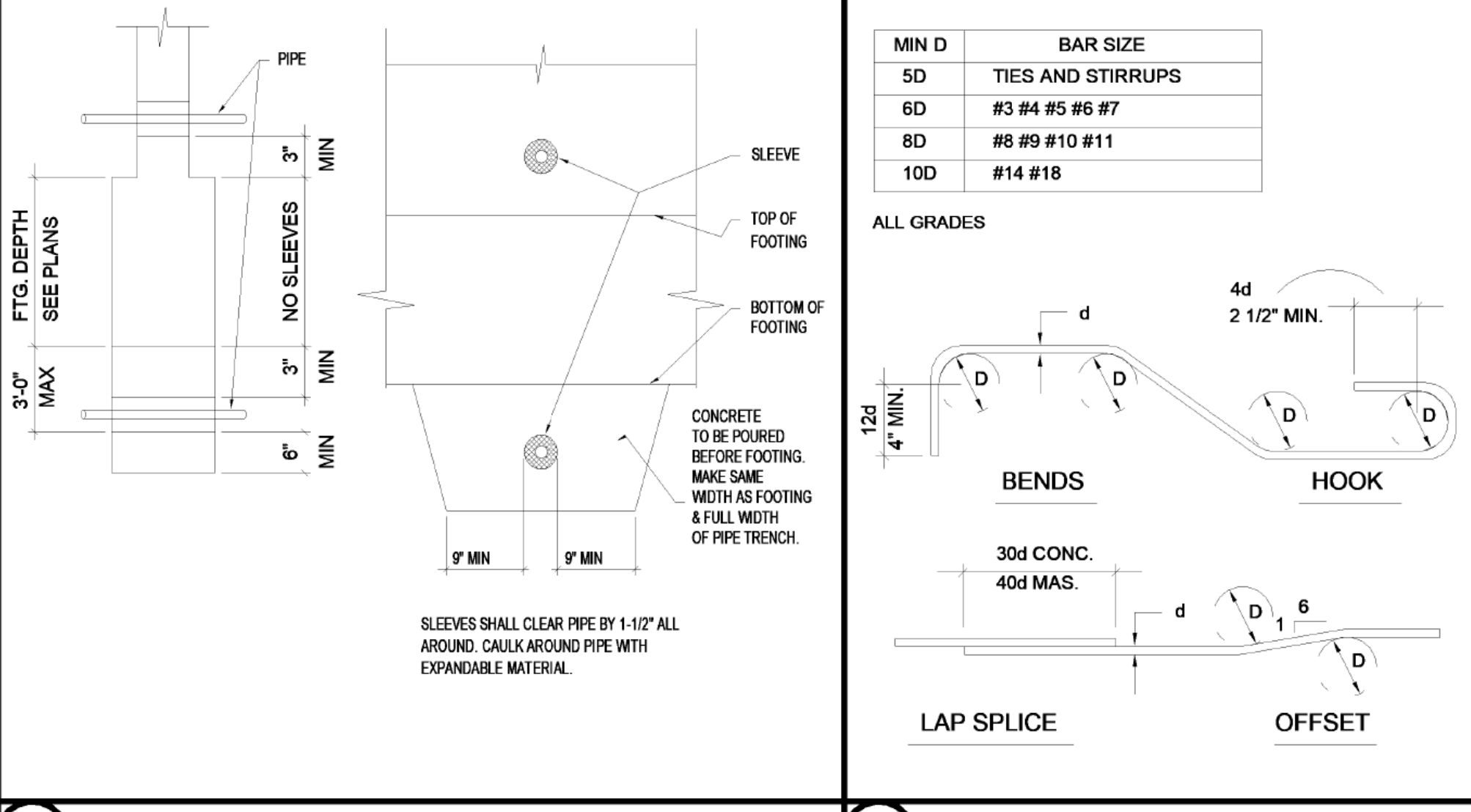
2 TYPICAL SLAB JOINT DETAIL



3 TYPICAL TRENCH EXCAVATION DETAIL

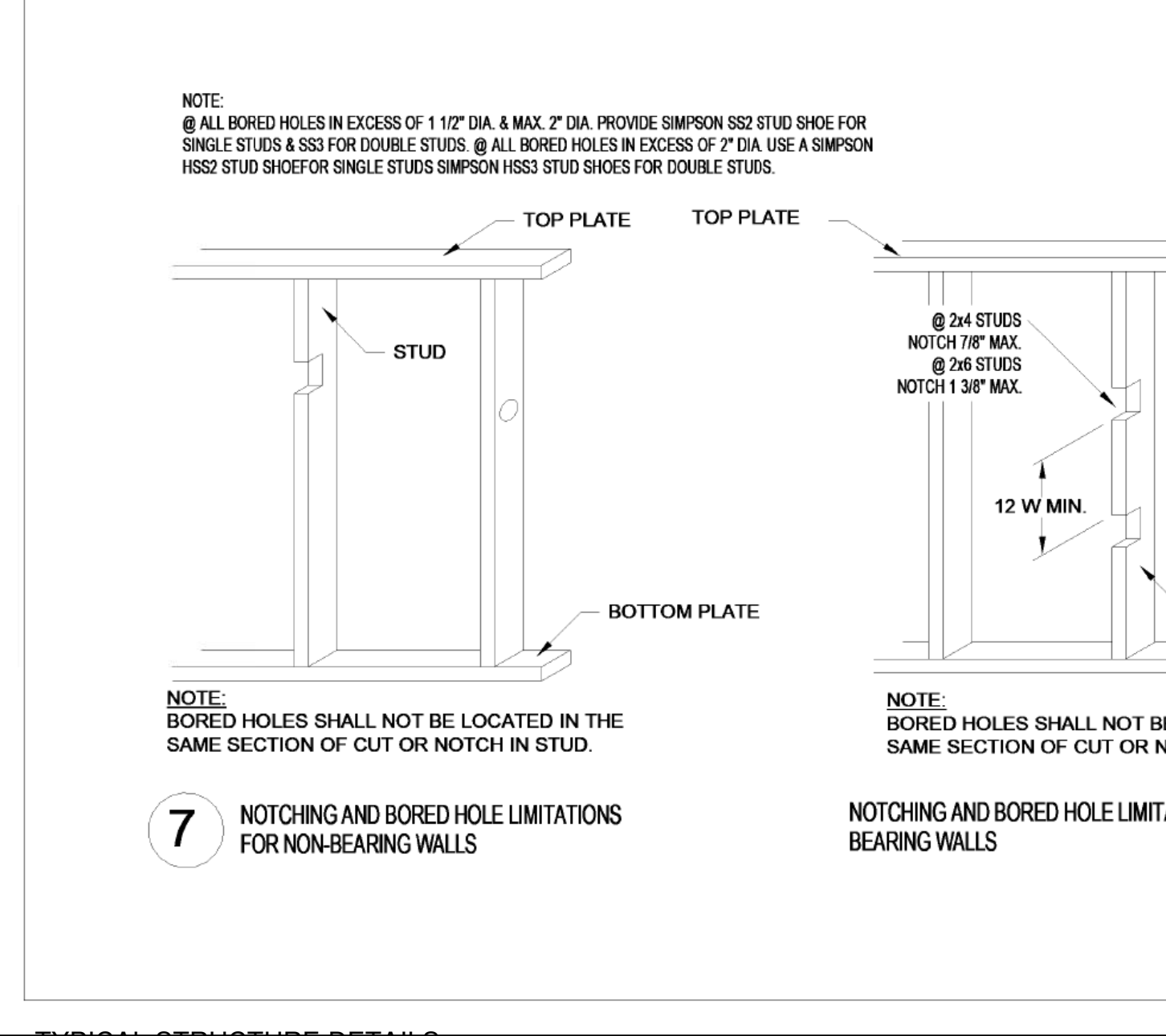


4 TYPICAL CONCRETE STEP DETAIL

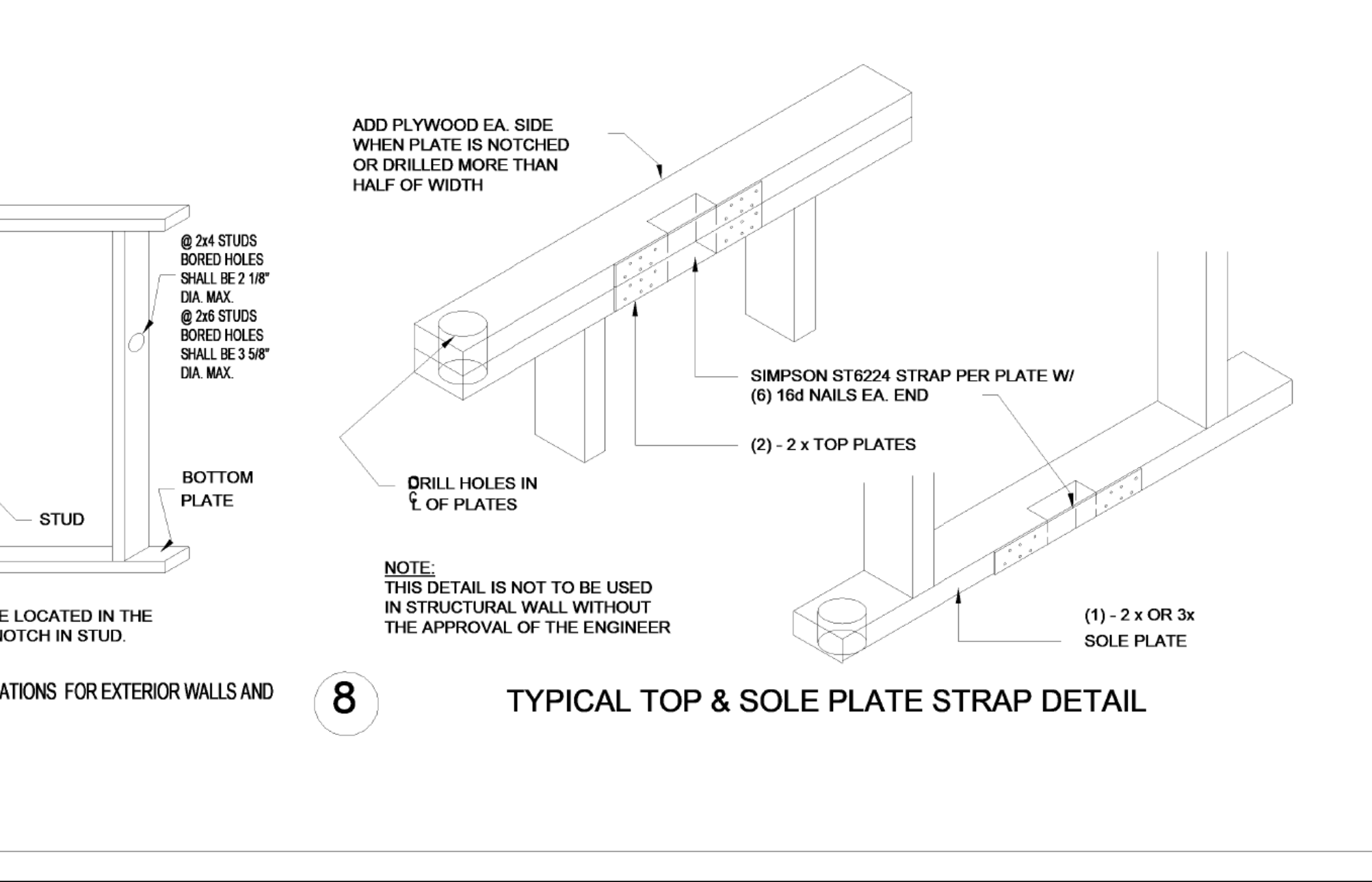


5 TYPICAL PIPE SLEEVE DETAIL

6 TYP. BAR BEND & HOOK DET.



1/4" = 1'-0"



8 TYPICAL TOP & SOLE PLATE STRAP DETAIL

TYPICAL HANGER SCHEDULE

FRAMING MEMBERS	HANGERS	
	INTERIOR CONDITION	END CONDITION
2X4 DFL#1	HU24	HUC24
2X6 DFL#1	HU26	HUC26
2X8 DFL#1	HU28	HUC28
2X10 DFL#1	HU210	HUC210
2X12 DFL#1	HU212	HUC212
2X14 DFL#1	HU214	HUC214
2-2X4 DFL#1	HU24-2	HUC24-2
2-2X6 DFL#1	HU26-2	HUC26-2
2-2X8 DFL#1	HU28-2	HUC28-2
2-2X10 DFL#1	HU210-2	HUC210-2
2-2X12 DFL#1	HU212-2	HUC212-2
2-2X14 DFL#1	HU214-2	HUC214-2
4X4 DFL#1	HU44	HUC44
4X6 DFL#1	HU46	HUC46
4X8 DFL#1	HU48	HUC48
4X10 DFL#1	HU410	HUC410
4X12 DFL#1	HU412	HUC412
4X14 DFL#1	HU414	HUC414
6X6 DFL#1	HU66	HUC66
6X8 DFL#1	HU68	HUC68
6X10 DFL#1	HU610	HUC610
6X12 DFL#1	HU612	HUC612

NAILING REQUIREMENTS:
HANGERS CAN ONLY ACHIEVE MAX. CAPACITY IF ALL ROUND NAIL HOLES & TRIANGULAR NAIL HOLES ARE FILLED WITH THE PROPER NAILS.
FACE MOUNT SINGLE JOIST HANGERS:
*10d(3) COMMON NAILS INTO HEADER AND 10d x 1 1/2" NAILS INTO JOIST.

TOP FLANGE HANGERS

SUPPORTED MEMBER DEPTH	HANGER
9 1/4"	WPU1.81/9.25
9 1/2"	MIT9.5
11 1/4"	WPU1.81/9.5
11 7/8"	MIT11.88
14"	WPU1.81/11.88
14"	MIT1.81/14
9 1/4"	GLTV3.56/9.25
9 1/2"	GLTV3.59
11 1/4"	GLTV3.56/11.25
11 7/8"	GLTV3.511
14"	GLTV3.514
16"	GLTV3.516
18"	GLTV3.518
9 1/4"	GLTV5.50/9.25
9 1/2"	HGLTV5.59
11 1/4"	GLTV5.50/11.25
11 7/8"	HGLTV5.511
14"	HGLTV5.514
16"	HGLTV5.516
18"	HGLTV5.518
11 7/8"	HGLTV411.88-2
14"	HGLTV414-2
16"	HGLTV416-2
18"	HGLTV418-2

FACE MOUNT HANGERS

SUPPORTED MEMBER DEPTH	HANGER
9 1/4"-14"	HU7
11 1/4"-14"	HU11
14"	HU14
9 1/4"-11 1/4"	HU48
11 1/4"-16"	HU412
14"	HGUS412
14" - 18"	HU416
9 1/4"-11 7/8"	HGUS414
9 1/2" - 14"	HUS.31/11
11 7/8" - 18"	HUS.31/14
14" - 18"	HGUS5.50/14
9 1/4"-14"	HU410
11 1/4"-16"	HGUS7.25/12
14" - 18"	HU414-2
	HGUS7.25/14

NAILING REQUIREMENTS:
HANGERS CAN ONLY ACHIEVE THEIR MAX. CAPACITY IF ALL ROUND NAIL HOLES & TRIANGULAR NAIL HOLES ARE FILLED WITH THE PROPER NAILS.
TOP FLANGE FACE MOUNT HANGERS:
16d(3) 1/2" COMMON NAILS INTO HEADER & 10d x 1 1/2" NAILS INTO THE SUPPORTED MEMBER.
EXCEPTION - HU410 THROUGH HU416; 10d(3) COMMON NAILS INTO THE SUPPORTED MEMBER - GLTV, HGLTV, HUS SERIES AND HU10 THROUGH HU16; 16d(3) 1/2" COMMON NAILS INTO THE SUPPORTED MEMBER.

SINGLE JOIST HANGER

DEPTH	TJ/PRO	HANGER
9 1/2"	110	ITT9.5
	210	ITT2.1/9.5
	230	ITT359.5
11 7/8"	110	ITT11.88
	210	ITT2.1/11.88
	230	ITT3511.88
	360	ITT3511.88
	560	ITT411.88
14"	110	ITT14
	210	ITT2.1/14
	230	ITT3514
16"	360	ITT3514
	560	ITT414
	210	ITT2.1/16
9 1/2"	230	MIT3516
	360	MIT3516
	560	MIT416
11 7/8"	110	IUS1.81/9.5
	210	IUS2.37/9.5
	230	IUS1.81/11.88
14"	110	IUS2.06/11.88
	210	IUS2.37/11.88
	360	IUS2.37/11.88
16"	110	IUS3.56/11.88
	210	IUS2.37/14
	360	IUS3.56/14
9 1/2"	210	IUS2.37/16
	230	IUS2.37/16
	360	IUS2.37/16
11 7/8"	210	IUS3.56/16
	230	IUS2.37/16
	360	IUS2.37/16
14"	210	IUS3.56/16
	230	IUS2.37/16
	360	IUS2.37/16
16"	210	IUS3.56/16
	230	IUS2.37/16
	360	IUS2.37/16

FACE MOUNT DOUBLE JOIST HANGERS:
*10d(3) COMMON NAILS INTO JOIST & 16d (3 1/2") COMMON NAILS INTO HEADER.
EXCEPTION - HU412 & HU414-2; 16d(3) 1/2" COMMON NAILS INTO JOIST.
- MIU SERIES HANGERS: 10d x 1 1/2" NAILS INTO HEADER.

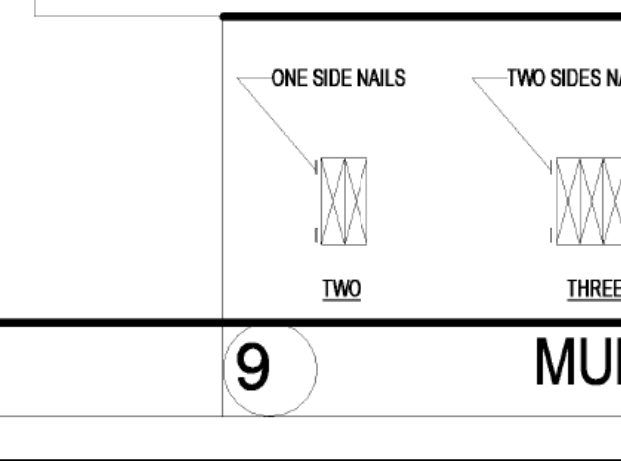
DOUBLE JOIST HANGER

DEPTH	TJ/PRO	HANGER
9 1/2"	110	MIT49.5
	210	MIT4.28/9.5
	230	MIT359.5-2
11 7/8"	110	MIT411.88
	210	MIT4.28/11.88
	230	MIT3511.88-2
	360	MIT3511.88-2
	560	WPH411.88-2
14"	110	MIT414
	210	MIT4.28/14
	230	MIT3514-2
16"	360	MIT3514-2
	560	WPH414-2
	210	LBV4.28/16
9 1/2"	230	LBV3516-2
	360	LBV3516-2
	560	WP1416-2
11 7/8"	110	MIU49
	210	MIU4.28/9
	230	MIU4.75/9
14"	110	MIU411
	210	MIU4.28/11
	230	MIU4.75/11
16"	110	MIU4.75/11
	210	MIU4.75/11
	360	MIU4.75/11
9 1/2"	210	MIU4.75/14
	230	MIU4.75/14
	360	MIU4.75/14
11 7/8"	210	MIU4.75/14
	230	MIU4.75/14
	360	MIU4.75/14
14"	210	MIU4.75/14
	230	MIU4.75/14
	360	MIU4.75/14
16"	210	MIU4.75/16
	230	MIU4.75/16
	360	MIU4.75/16
9 1/2"	210	MIU4.75/16
	230	MIU4.75/16
	360	MIU4.75/16

GENERAL NOTES:
HANGERS ARE BASED ON THE FLOOR & ROOF SPAN TABLES FOUND IN THIS GUIDE. CAPACITY MUST BE CHECKED SINGLE JOIST APPLICATIONS BEYOND THOSE SHOWN IN THE SPAN TABLE & ALL DOUBLE JOIST APPLICATIONS. REFER TO APPLICABLE FOOTNOTES ON THIS PAGE.
HANGER CAPACITIES WILL NEED TO BE CHECKED IF HANGER IS SUPPORTED FROM OTHER THAN TRUSS, JOIST MACMILLAN PRODUCTS OR DOUBLE END LARCH OR SOUTHERN PINE SPECIES SUPPORT MEMBERS. CONTACT YOUR TRUSS, JOIST MACMILLAN REPRESENTATIVE FOR ASSISTANCE.
HANGER LOADS SHOWN ARE THE LESSER OF THE JOIST(S) OR HANGER CAPACITY. IN SOME CASES, THE HANGERS SHOWN MAY HAVE GREATER CAPACITY WHEN USED IN CONJUNCTION WITH CERTAIN SUPPORTING MEMBER CATEGORIES OR SUPPORT MEMBER CRITERIA.
T.J. JOIST HEADERS MUST BE OF THE SAME NUMBER AND SIZE (JOIST DEPTH AND FLANGE WIDTH) OR GREATER THAN JOIST(S) SUPPORTED BY THE HEADER.
LEAVE 1/8" CLEARANCE BETWEEN THE END OF T.J. JOIST AND SUPPORT MEMBER OR HANGER.
THE HANGERS LISTED ABOVE ARE MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC.
FOR ADDITIONAL INFORMATION PLEASE REFER TO CURRENT SIMPSON STRONG-TIE COMPANY, INC. LITERATURE.

POST SCHEDULE

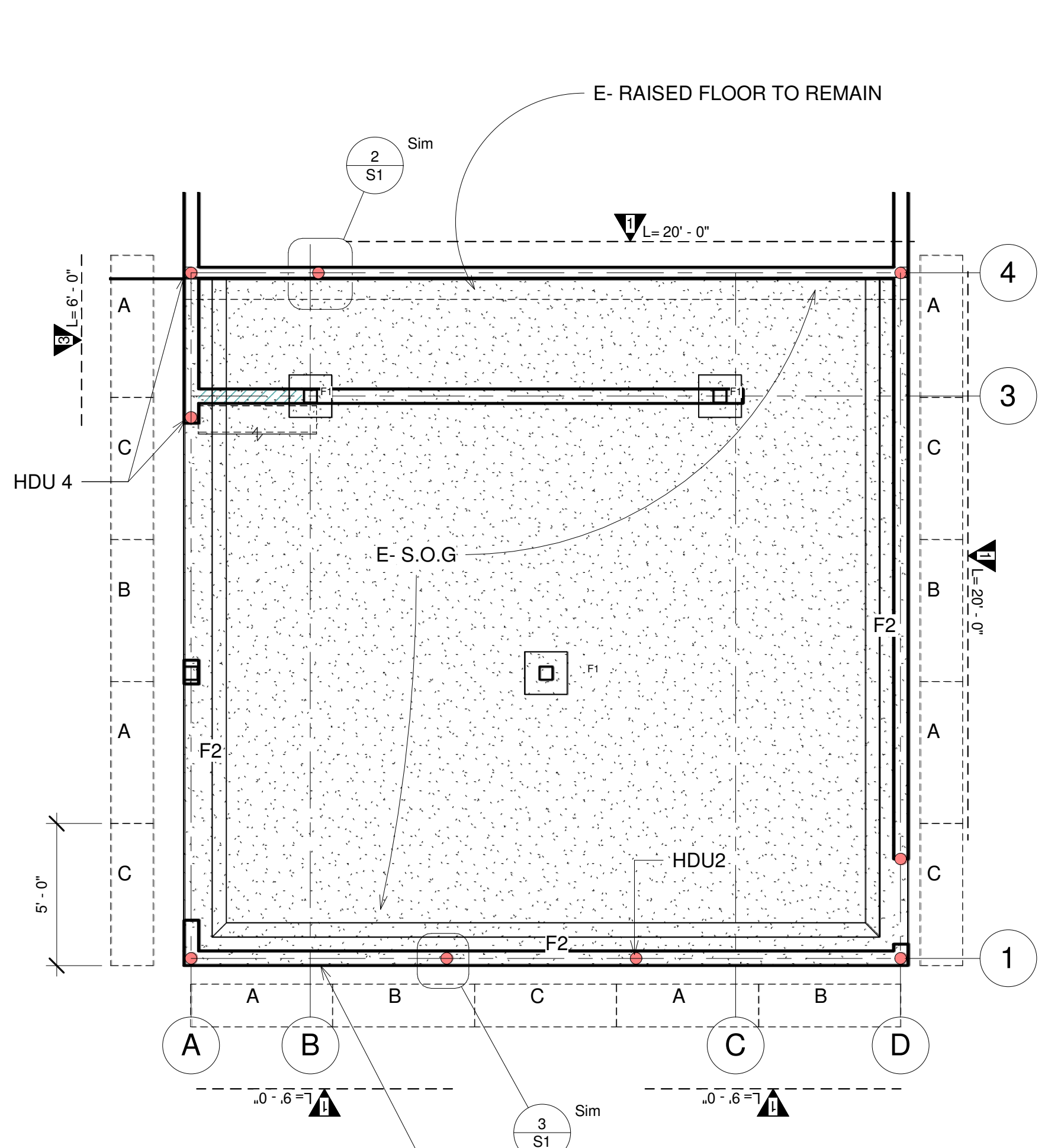
STUD WALL	BEAM		POST SIZE	POST CAP		POST BASE		
	DFL#1	PSL		END CONDITION	INTERIOR CONDITION	ABOVE FRAMING	AT NEW FOOTING	AT EXISTING FOOTING
2 X 4	4 X	3 1/2" X	4 X 4	ECCQ44	CCQ44	BC40	CB44	ABU44
	6 X	5 1/4" X	4 X 6	ECCQ46	CCQ46	BC40	CB46	ABU46
	8 X	6 3/4" X	4 X 8	ECCQ48	CCQ48	BC40	CB48	ABU48
2 X 6	4 X	3 1/2" X	4 X 6	ECCQ46	CCQ46	BC40	CB46	ABU46
	6 X	5 1/4" X	6 X 6	ECCQ66	CCQ66	BC60	CB66	ABU66
	8 X	6 3/4" X	8 X 6	ECCQ68	CCQ68	BC60	CB68	ABU66



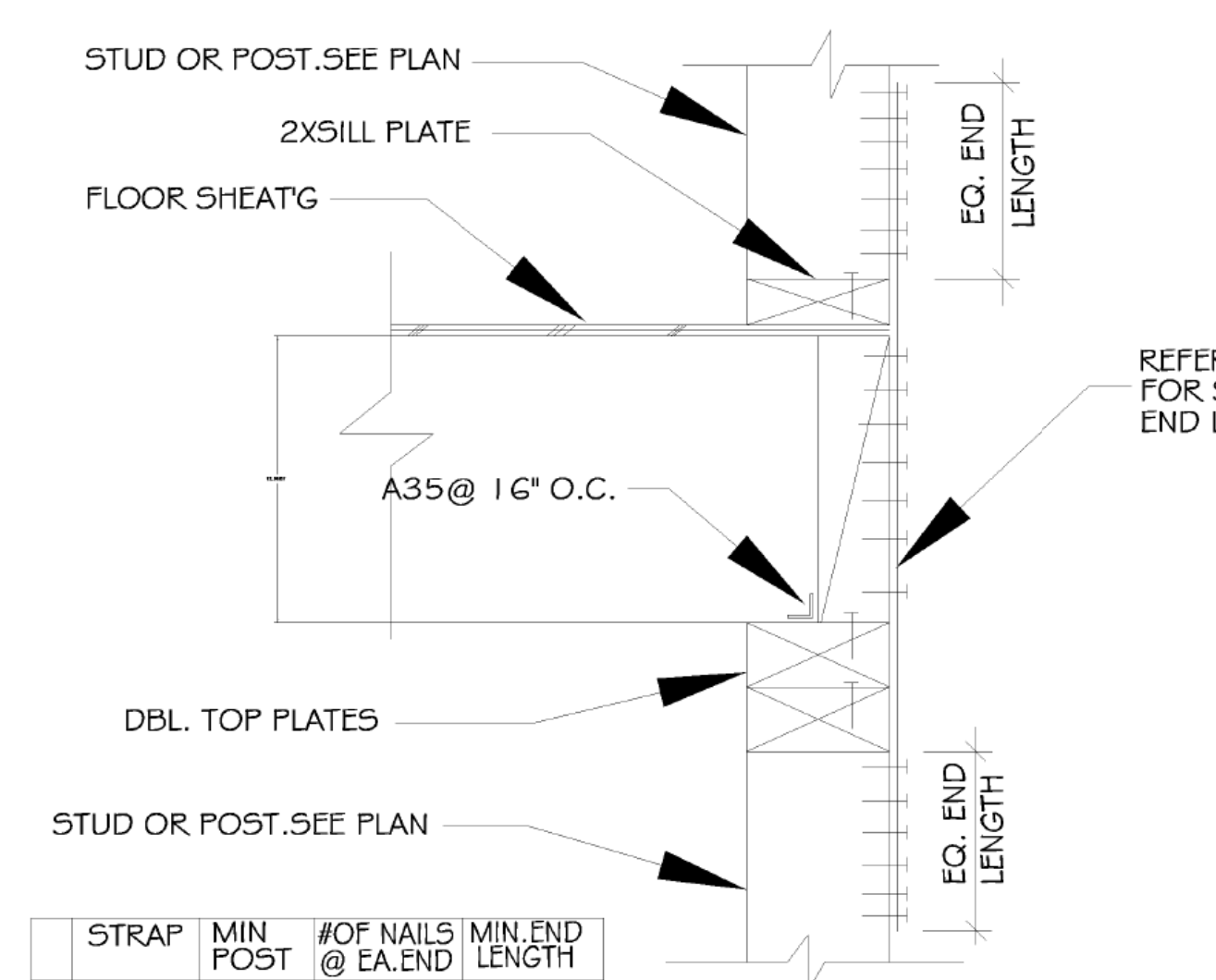
9 MULTIPLE MEMBER

george boules
5-11-22





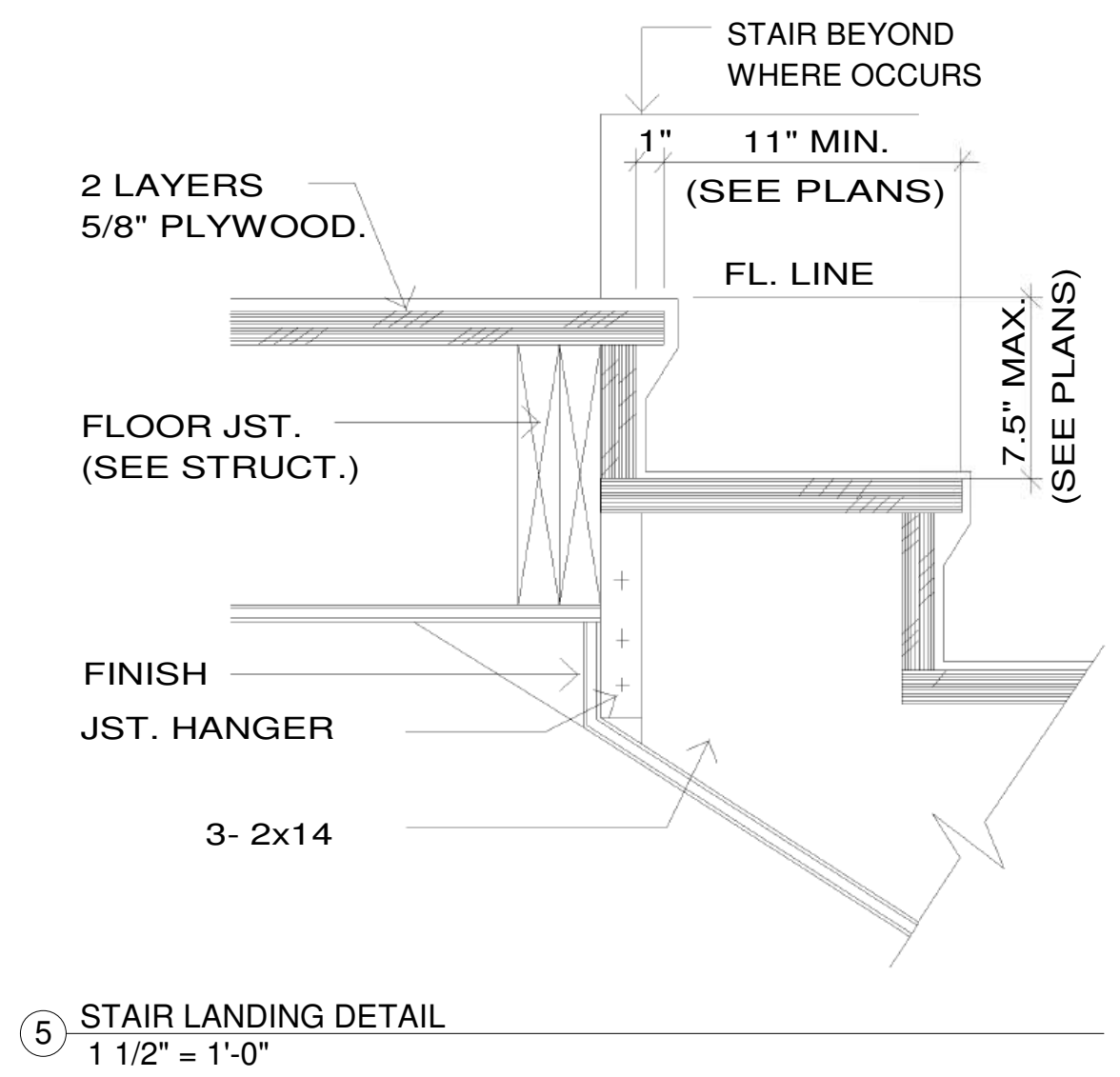
1 FOUNDATION PLAN
1/4" = 1'-0"



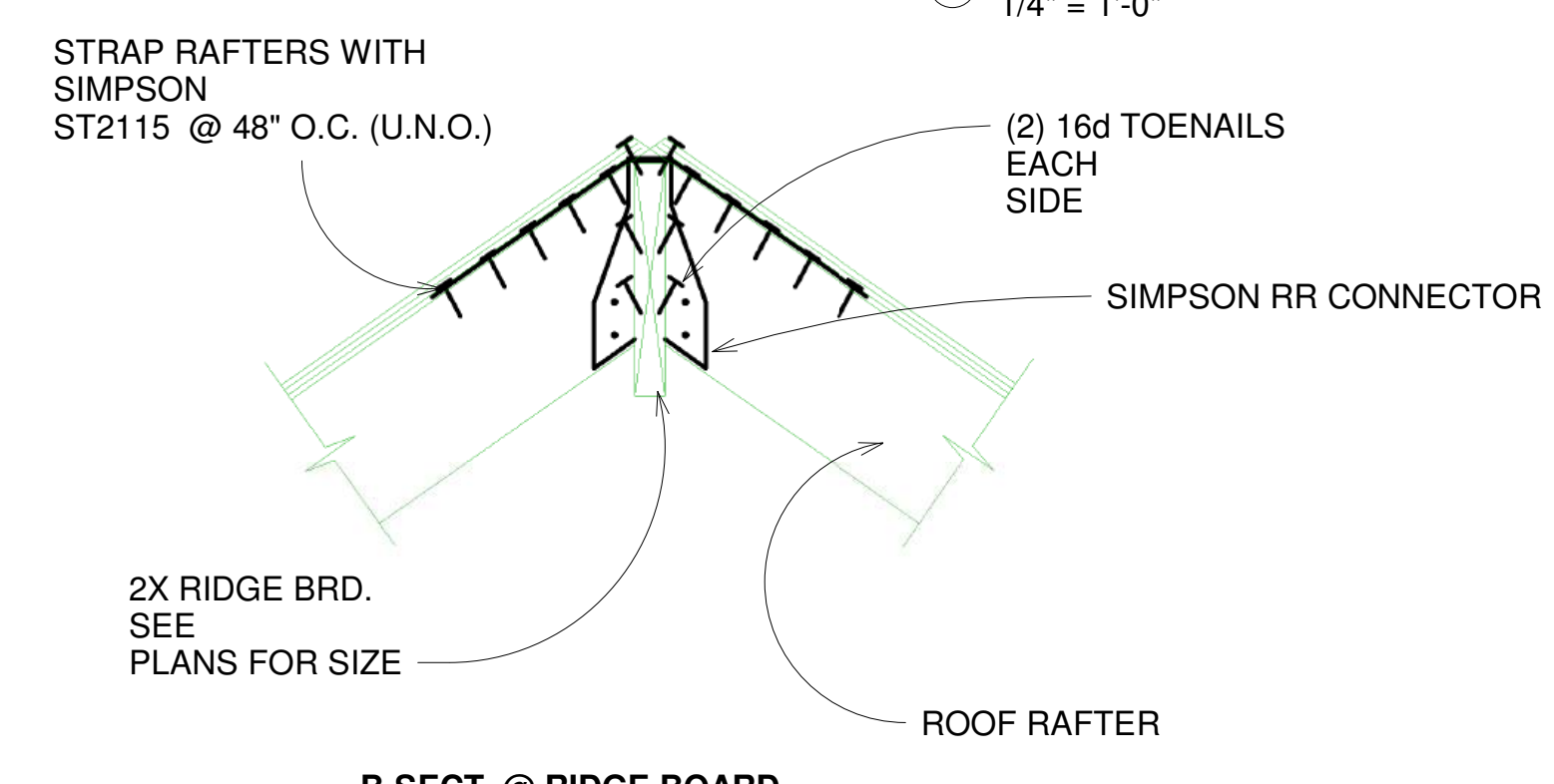
STRAP	MIN POST	# OF NAILS @ EA. END	MIN. END LENGTH
A (1)CS 16	2X4	(18)8d's	18"
B (2)CS 16	(2)2X4	(36)8d's	18"
C (3)CS 16	4X6	(54)8d's	18"
D MST 60	4X4	(26)8d's	EQ.

NOTES:
- ALL STRAPS ARE SIMP.
- PROVIDE E.N. OF SHEAR PANEL ALONG ALL STUDS W/STRAPS

6 STRAP HOLD DOWN
1 1/2" = 1'-0"



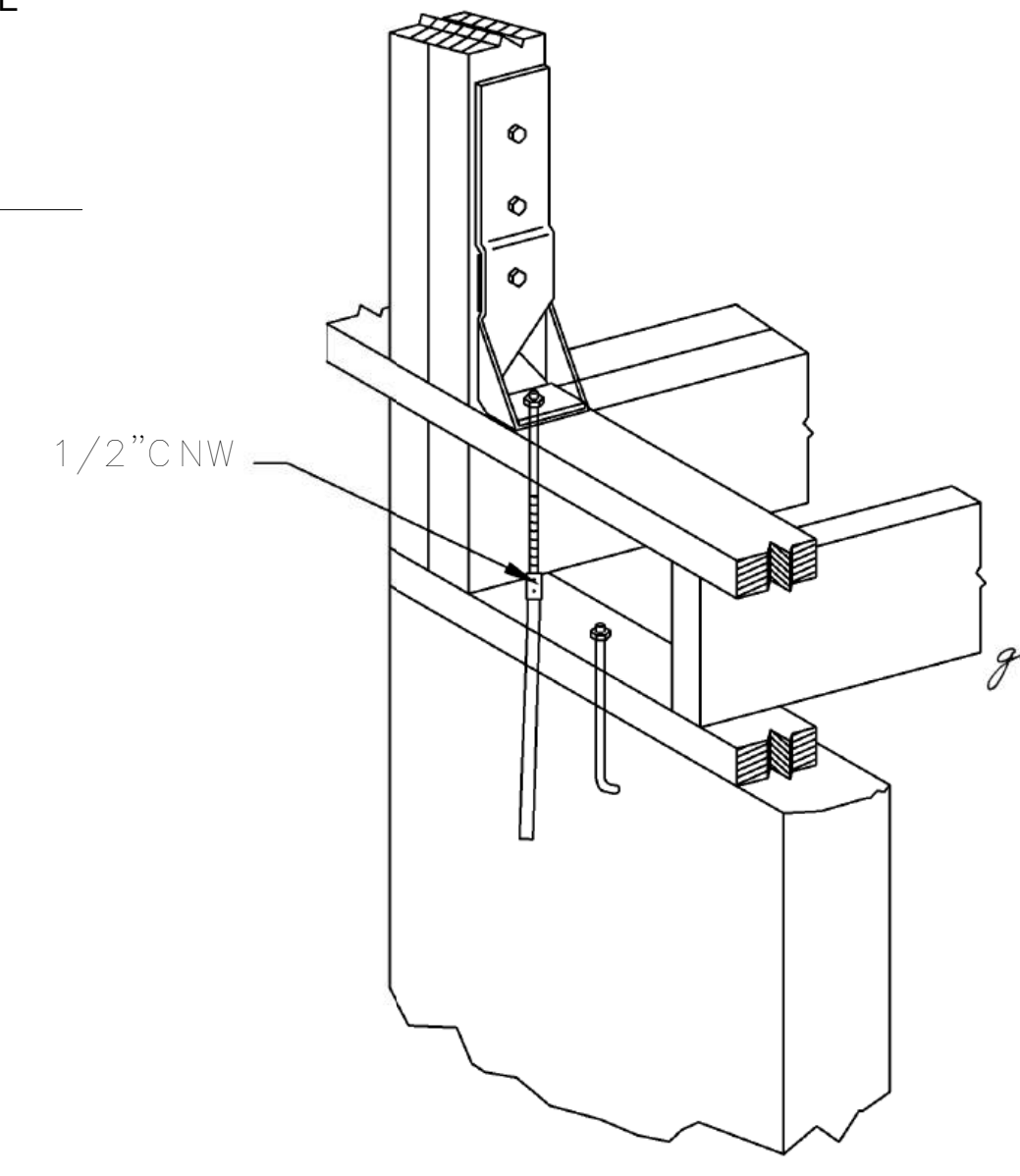
5 STAIR LANDING DETAIL
1 1/2" = 1'-0"



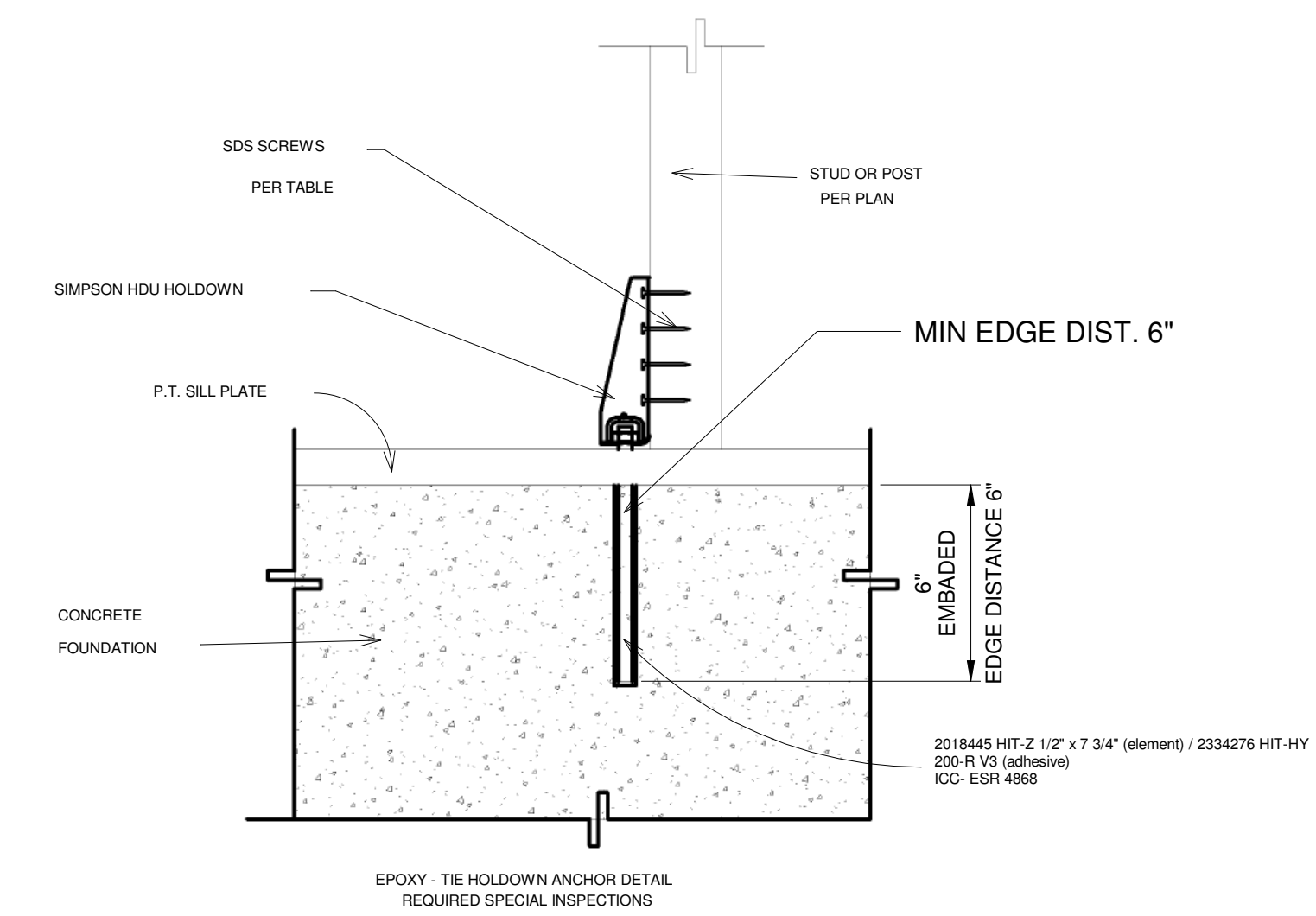
TYP. RIDGE FRAMING

7 Ridge Board and Ridge Beam
1 1/2" = 1'-0"

- V_{L=4'-0"} SHEAR WALL AT 2 ND FLOOR
- V_{L=4'-0"} SHEAR WALL AT FIRST FLOOR
- HDU 2 ULESS LABELED ELSE
- ▲ MST
- STRUCTURE LEGEND 1/4" = 1'-0"



2 HD @ CONC. CEIPLE WALL
1/2" = 1'-0"



3 HOLD DOWN IN OLD CONCRETE
1" = 1'-0"

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george boules
5-11-225-11-22

ALL WORK PLAN SHALL CONFORM TO 2016 CBC, CMC, CPC, CEC, AND CES
READ COVER SHEET, GENERAL DETAILS WHEN AVAILABLE IN THE DOCUMENTS

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NOTE TO BUILDER: CONFLICTS, MISTAKES AND ERRORS MAY OCCUR IN ALL CONSTRUCTION DOCUMENTS. IT IS THE RESPONSIBILITY OF THE BUILDER TO REVIEW ALL DRAWINGS PRIOR TO START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY POTENTIAL PROBLEMS. FAILURE TO REVIEW PLANS CAN RESULT IN CHANGES TO THE PLAN DURING CONSTRUCTION.

BUL. DEPARTMENT CORRECTION:

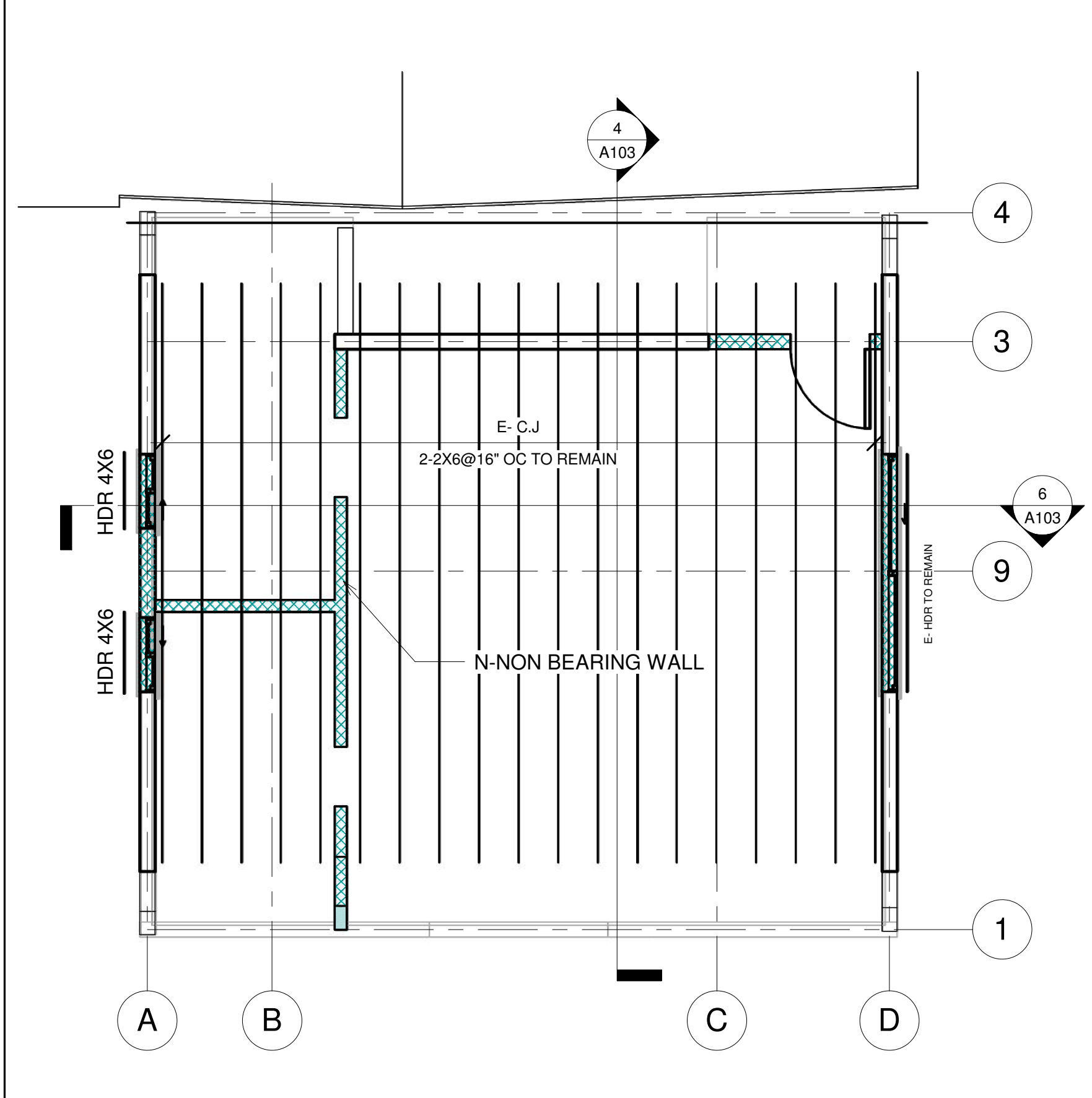
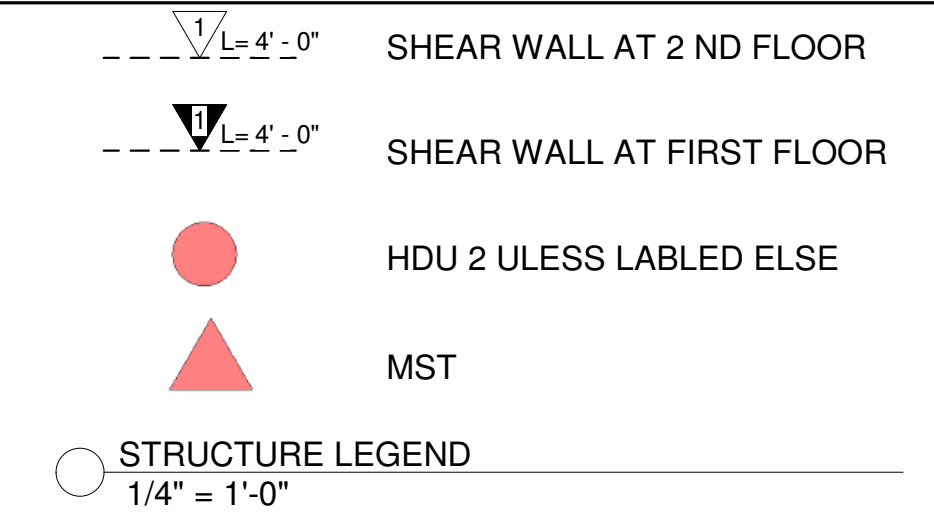
Revision #	REV:	Date

SHEET
FRAMING PLAN
JOB Project Number
SHEET
S2

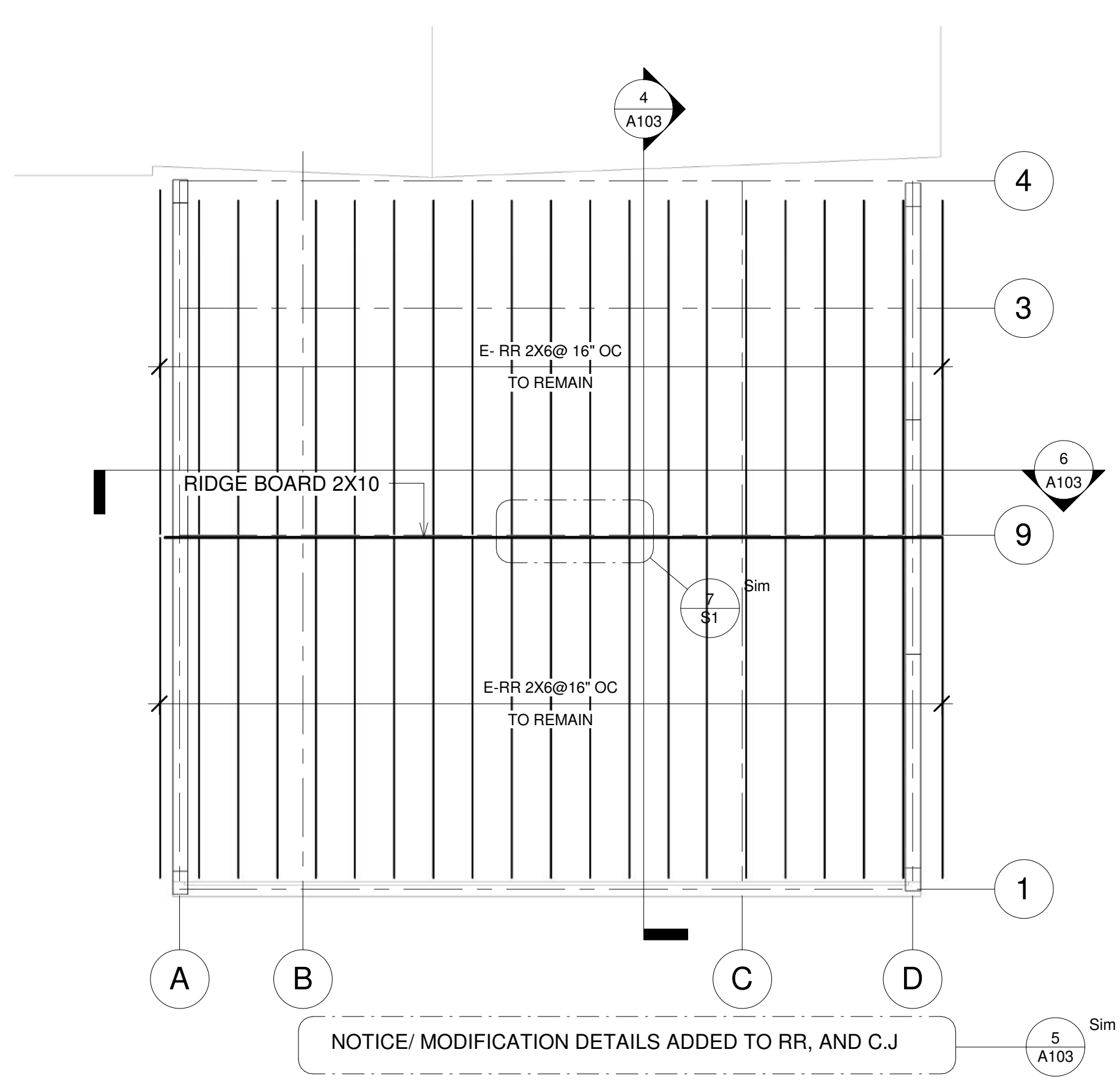
Owner: AVRAHAM REHONITZ

2474 BARBARA DR SANTA ROSA, CA 93012

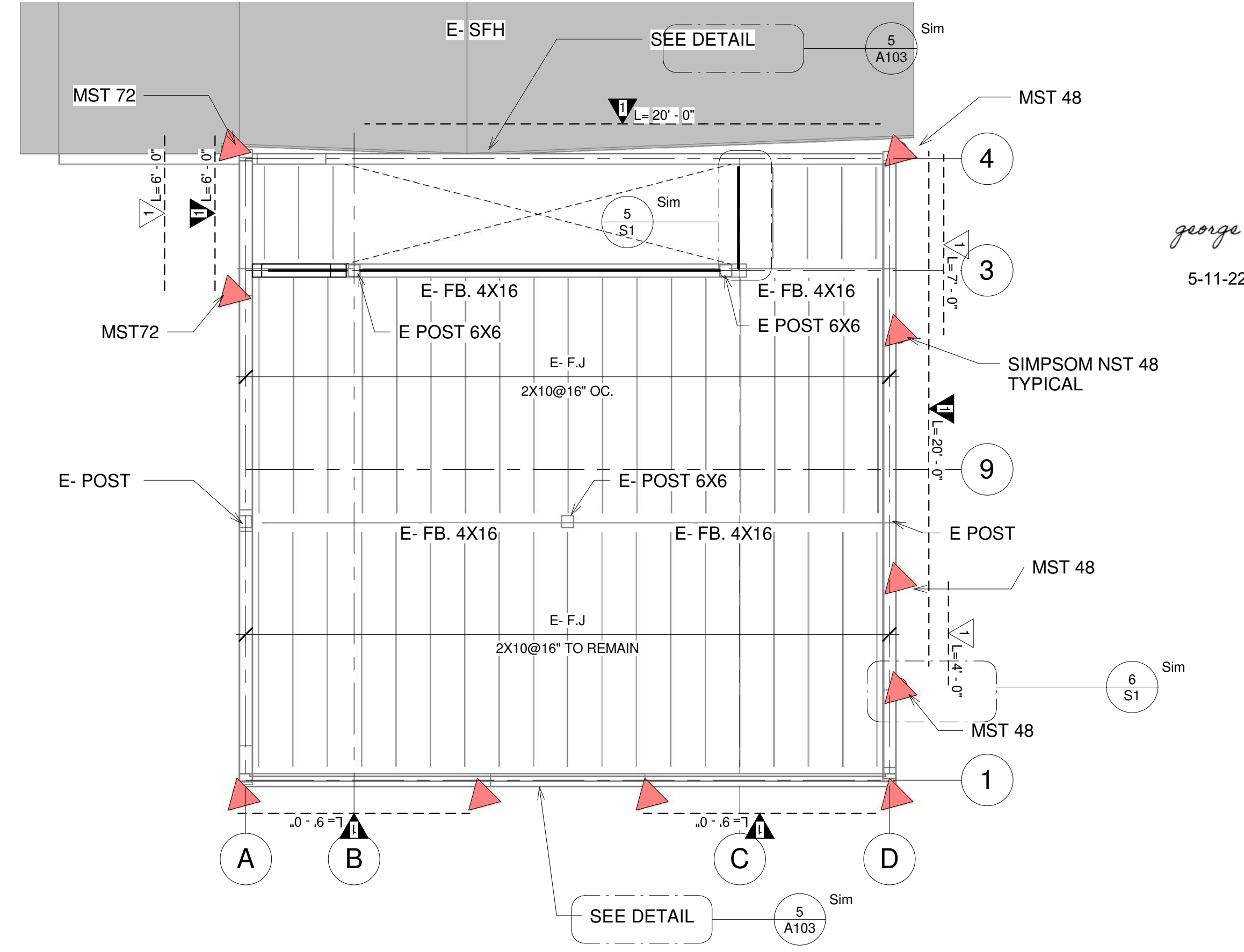
5/12/2022 12:14:07 AM



1 2ND FLOOR CEILING
1/4" = 1'-0"



2 ROOF RAFTER FRAMING PLAN
1/4" = 1'-0"



3 FLOOR FRAMING PLAN
1/4" = 1'-0"

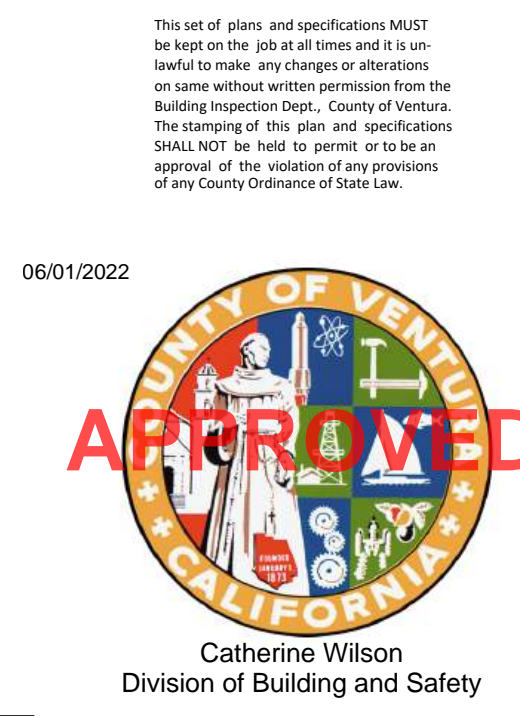
all shear wall from interior face

MARK	MATERIAL	NO. OF SIDES	NAILING		A35/LTP4 SHEAR CLIPS	SILL PLATE ATTACHMENT U.N.O.		SEISMIC ALLOW SHEAR (#/FT)	WIND ALLOW SHEAR (#/FT)	REMARKS
			EDGE (E.N.)	FIELD (F.N.)		FRAMED FLOOR	FOUNDATION (A307 BOLTS)			
1	1 5/32" STRUCT-I PLYWD (PI 32/16) 5-PLY	1	10d @ 6" O.C.	10d @ 12" O.C.	16" O.C.	3/8" DIA. x 7" LAG @ 32" O.C.	5/8" A.B. @ 48" O.C.	255	340	3 4
2	1 5/32" STRUCT-I PLYWD (PI 32/16) 5-PLY	1	10d @ 4" O.C.	10d @ 12" O.C.	8" O.C.	3/8" DIA. x 7" LAG @ 16" O.C.	5/8" A.B. @ 32" O.C.	380	510	1 2 3 4
3	1 5/32" STRUCT-I PLYWD (PI 32/16) 5-PLY	1	10d @ 3" O.C.	10d @ 12" O.C.	8" O.C.	3/8" DIA. x 7" LAG @ 12" O.C.	5/8" A.B. @ 24" O.C.	500	665	1 2 3 4
4	1 5/32" STRUCT-I PLYWD (PI 32/16) 5-PLY	1	10d @ 2" O.C.	10d @ 12" O.C.	8" O.C.	3/8" DIA. x 7" LAG @ 9" O.C.	5/8" A.B. @ 16" O.C.	650	870	1 2 3 4 6
5	1 5/32" STRUCT-I PLYWD (PI 32/16) 5-PLY	2	10d @ 6" O.C.	10d @ 12" O.C.	8" O.C. EA SIDE	3/8" DIA. x 7" LAG @ 12" O.C.	5/8" A.B. @ 24" O.C.	760	1020	1 2 3 4
6	1 5/32" STRUCT-I PLYWD (PI 32/16) 5-PLY	2	10d @ 4" O.C.	10d @ 12" O.C.	8" O.C. EA SIDE	3/8" DIA. x 7" LAG @ 9" O.C.	5/8" A.B. @ 12" O.C.	1030	1370	1 2 3 4 6
7	1 5/32" STRUCT-I PLYWD (PI 32/16) 5-PLY	2	10d @ 3" O.C.	10d @ 12" O.C.	8" O.C. EA SIDE	3/8" DIA. x 7" LAG @ 9" O.C.	5/8" A.B. @ 16" O.C.	1300	1740	1 2 3 4 6

4 SHEAR WALL SCHEDULE
1 1/2" = 1'-0"

NOTES:

- FRAMING AT ADJOINING PANEL EDGES SHALL BE 3" (INCH) NOMINAL OR THICKER (i.e. MIN 3x VERTICAL STUDS AND BLOCKING)
NAILS SHALL BE STAGGERED IN TWO LINES ALONG PANEL EDGES WHERE NAILS ARE SPACED 2" INCHES ON CENTER OR WHEN 10d
COMMON NAILS SPACED 3" O.C. PENETRATE FRAMING MORE THAN 1 5/8".
- NAILS SHALL BE PLACED NOT LESS THAN 3/8" INCH FROM PANEL EDGES.
- FOR HOLD-DOWNS AT THE END OF THE SHEAR WALL, SEE PLANS AND SCHEDULE. PROVIDE PLATE WASHER PER STANDARD
PLATE WASHER SCHEDULE AT ALL SILL PLATE ANCHOR BOLTS AND AT ALL HOLD-DOWN BOLTS CONNECTED TO VERTICAL POSTS.
- USE WELDED STUD BOLTS OF SAME SIZE & SPACING AS OF SILL PLATE ANCH. BOLTS, WHERE STEEL BEAM OCCURS UNDER SHEAR WALL.
- PROVIDE DOUBLE PARALLAM BLOCKING TO ACCOMODATE 2 ROWS OF SIMPSON SDS SCREWS.
- FOUNDATION SILL PLATE SHALL BE 2x. U.N.O. - USE 3 x SILL PLATE WHEN ALLOWABLE SHEAR EXCEEDS 300#/FT.
- SIMPSON SDS 1/4"x6" WOOD SCREWS. TYP. USE |2"x4|4" SDS INTO NAILER AT STEEL BEAMS.
- WHERE 2-2x SILL |P ARE USED SCREW LOWER PLATE TO FRAMING BELOW. DRILL HOLE IN UPPER SILL PLATE FOR SCREW HEAD SO THAT UPPER PLATE SITS FLAT ON LOW SILL PLATE.



CERTIFICATE OF COMPLIANCE

Project Name: 2474 Barbara Dr-Room Addition
Calculation Date/Time: 2021-10-24T14:35:45-07:00
Calculation Description: Title 24 Analysis

Calculation Date/Time: 2021-10-24T14:35:45-07:00
Input File Name: 2474 barbara dr- 9-7-21-room addition.ribd19x

CF1R-PRF-01E
(Page 7 of 7)

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: MICHAEL W. SAMUEL
Company: ENTHALPY ENGINEERING GROUP
Address: 6433 Topanga Canyon Blvd Suite #501
City/State/Zip: Woodland Hills, CA 91303

Documentation Author Signature: [Signature]
Signature Date: 2021-10-24 14:38:08
CEA/HERS Certification Identification (if applicable): NA
Phone: 818-233-1996

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design identified on this Certificate of Compliance.
2. I certify that the design features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.

Responsible Designer Name: MICHAEL W. SAMUEL
Responsible Designer Signature: [Signature]
Date Signed: 2021-10-24 14:38:08
License: NA
Phone: 818-233-1996

Digitally signed by CalCERTS. This digital signature is provided in order to secure the content of this registered document, and in no way implies Registration Provider responsibility for the accuracy of the information.



Registration Number: 221-P0102234154-000-000-0000000-0000
CA Building Energy Efficiency Standards - 2019 Residential Compliance

Registration Date/Time: 2021-10-24 14:38:08
Report Version: 2019.1.300
Schema Version: 2020-09-01

HERS Provider: CalCERTS, Inc.
Report Generated: 2021-10-24 14:36:01

This set of plans and specifications MUST be kept on the job at all times and it is unlawful to make any changes or alterations on same without written permission from the Building Inspection Dept., County of Ventura. The stamping of this plan and specifications shall be the joint permittee and approval of the violation of any provisions of any County Ordinance of State Law.

06/01/2022



Catherine Wilson
Division of Building and Safety



2019 Low-Rise Residential Mandatory Measures Summary

NOTE: Low-rise residential buildings subject to the Energy Standards must comply with all applicable mandatory measures, regardless of the compliance approach used. Review the respective section for more information. *Exceptions may apply. (01/2020)

Table with 2 columns: Measure ID and Measure Description. Includes sections for Building Envelope Measures, Fireplaces, Decorative Gas Appliances, and Gas Log Measures, Space Conditioning, Water Heating, and Plumbing System Measures, and Pool and Spa Systems and Equipment Measures.



2019 Low-Rise Residential Mandatory Measures Summary

Table with 2 columns: Measure ID and Measure Description. Includes sections for Clearances, Liquid Line Drier, Storage Tank Insulation, Water Piping, Solar Water-Heating System Piping, Insulation Protection, Radiant Barrier, Ceiling and Rafter Roof Insulation, Wall Insulation, Raised-Floor Insulation, Slab Edge Insulation, Vapor Retarder, Fenestration Products, Fireplaces, Decorative Gas Appliances, and Gas Log Measures, Space Conditioning, Water Heating, and Plumbing System Measures, Gravity Ventilation Dampers, Protection of Insulation, Porous Inner Core Flex Duct, Duct System Sealing and Leakage Test, Air Filtration, Space Conditioning System Airflow Rate and Fan Efficacy, and Solar Ready Buildings.



2019 Low-Rise Residential Mandatory Measures Summary

Table with 2 columns: Measure ID and Measure Description. Includes sections for Requirements for Ventilation and Indoor Air Quality, Single Family Detached Dwelling Units, Multifamily Attached Dwelling Units, Multifamily Building Central Ventilation Systems, Kitchen Range Hoods, Field Verification and Diagnostic Testing, Pool and Spa Systems and Equipment Measures, Lighting Measures, and Solar Ready Buildings.



2019 Low-Rise Residential Mandatory Measures Summary

Table with 2 columns: Measure ID and Measure Description. Includes sections for Interior Switches and Controls, Residential Outdoor Lighting, Internally Illuminated Address Signs, Residential Garages for Eight or More Vehicles, Interior Common Areas of Low-Rise Multifamily Residential Buildings, Interior Common Areas of Low-Rise Multifamily Residential Buildings, and Solar Ready Buildings.



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(818) 233 - 1996
michael@enthalpyeng.com

AVRAHAM RESIDENCE
2474 BARBARA DR SANTA ROSA,
CA 93012

Revision table with columns: #, REV., Date

SHEET ENERGY FORMS
DATE: 10/24/2021
SHEET

T24-2

GENERAL INFORMATION	
01	Project Name: 2474 barbara Dr-Room Addition
02	Run Title: Title 24 Analysis
03	Project Location: 2474 Barbara Drive
04	City: Camarillo
05	Standards Version: 2019
06	Zip code: 93012
07	Software Version: EnergyPro 8.2
08	Climate Zone: 6
09	Front Orientation (deg/ Cardinal): 0
10	Building Type: Single family
11	Number of Dwelling Units: 1
12	Project Scope: AdditionOnly
13	Number of Bedrooms: 4
14	Number of Stories: 2
15	Existing Cond. Floor Area (ft²): 620
16	Existing Cond. Floor Area (ft²): 1780
17	Fenestration Average U-factor: 0.3
18	Total Cond. Floor Area (ft²): 2400
19	Glazing Percentage (%): 6.29%
20	ADU Bedroom Count: n/a
21	ADU Conditioned Floor Area: n/a
22	Is Natural Gas Available?: Yes

Addition Alone Project Analysis Parameters					
01	02	03	04	05	06
Existing Area (excl. new addition) (ft2)	Addition Area (excl. existing) (ft2)	Total Area (ft2)	Existing Bedrooms	Addition Bedrooms	Total Bedrooms
1780	620	2400	3	1	4

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building incorporates features that require field testing and/or verification by a certified HERS rater under the supervision of a CEC-approved HERS provider.
03	Building does not incorporate Special Features

Registration Number: 221-P010223415A-000-000-0000000-0000
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ENERGY USE SUMMARY				
Energy Use (kTDV/ft²-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	1.41	1.9	-0.49	-34.8
Space Cooling	24.37	24.62	-0.25	-1
IAQ Ventilation	0	0	0	0
Water Heating	29.32	26.8	2.52	8.6
Self Utilization/Flexibility Credit	n/a	0	0	n/a
Compliance Energy Total	55.1	53.32	1.78	3.2

REQUIRED SPECIAL FEATURES
 The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis.
 * NO SPECIAL FEATURES REQUIRED

HERS FEATURE SUMMARY
 The following is a summary of the features that must be field-verified by a certified HERS Rater as a condition for meeting the modeled energy performance for this computer analysis. Additional detail is provided in the building tables below. Registered CF2Rs and CF3Rs are required to be completed in the HERS Registry.

- Building-level Verifications:
 * -- None --
 Cooling System Verifications:
 * Verified Refrigerant Charge
 Heating System Verifications:
 * -- None --
 HVAC Distribution System Verifications:
 * -- None --
 Domestic Hot Water System Verifications:
 * -- None --

ZONE INFORMATION						
01	02	03	04	05	06	07
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2
ROOM ADDITION	Conditioned	HP-11	620	7	DHW Sys 1	N/A

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OPAQUE SURFACES									
01	02	03	04	05	06	07	08	09	10
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window and Door Area (ft2)	Tilt (deg)	Wall Exceptions	Status
NORTH WALL	ROOM ADDITION	R-19 Wall	0	Front	164.5	15	90	none	New
WEST WALL	ROOM ADDITION	R-19 Wall	270	Right	178.5	0	90	none	New
SOUTH WALL	ROOM ADDITION	R-19 Wall	180	Back	164.5	24	90	none	New
Roof	ROOM ADDITION	R-30 Roof Attic	n/a	n/a	320	n/a	n/a	n/a	New
Roof 2	ROOM ADDITION	R-30 Roof Attic	n/a	n/a	300	n/a	n/a	n/a	New
FLOOR	ROOM ADDITION	R-19 Floor No Crawlspace	n/a	n/a	620	n/a	n/a	n/a	New

ATTIC							
01	02	03	04	05	06	07	08
Name	Construction	Type	Roof Rise (x in 12)	Roof Reflectance	Roof Emittance	Radiant Barrier	Cool Roof
Attic ROOM ADDITION	Attic RoofROOM ADDITION	Ventilated	0	0.1	0.85	No	No

FENESTRATION / GLAZING													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Type	Surface	Orientation	Azimuth	Width (ft)	Height (ft)	Mult.	Area (ft²)	U-factor	U-factor Source	SHGC	SHGC Source	Exterior Shading
Win-24	Window	NORTH WALL	Front	0			1	7.5	0.3	NFRC	0.23	NFRC	Bug Screen
Win-24.2	Window	NORTH WALL	Front	0			1	7.5	0.3	NFRC	0.23	NFRC	Bug Screen
Win-22	Window	SOUTH WALL	Back	180			1	24	0.3	NFRC	0.23	NFRC	Bug Screen

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OPAQUE SURFACE CONSTRUCTIONS							
01	02	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Interior / Exterior Continuous R-value	U-factor	Assembly Layers
R-19 Wall	Exterior Walls	Wood Framed Wall	2x6 @ 16 in. O. C.	R-19	None / None	0.074	Inside Finish: Gypsum Board Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Exterior Finish: 3 Coat Stucco
Attic RoofROOM ADDITION	Attic Roofs	Wood Framed Ceiling	2x6 @ 24 in. O. C.	R-0	None / None	0.64	Roofing: Light Roof (Asphalt Shingle) Roof Deck: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2x6
R-30 Roof Attic	Ceilings (below attic)	Wood Framed Ceiling	2x6 @ 16 in. O. C.	R-30	None / None	0.032	Over Ceiling Joists: R-15.7 insul. Cavity / Frame: R-14.3 / 2x6 Inside Finish: Gypsum Board
R-19 Floor No Crawlspace	Interior Floors	Wood Framed Floor	2x6 @ 16 in. O. C.	R-19	None / None	0.049	Floor Surface: Carpeted Floor Deck: Wood Siding/sheathing/decking Cavity / Frame: R-19 in 5-1/2 in. (R-18) / 2x6 Ceiling Below Finish: Gypsum Board

BUILDING ENVELOPE - HERS VERIFICATION			
01	02	03	04
Quality Insulation Installation (QI)	High R-value Spray Foam Insulation	Building Envelope Air Leakage	CFM50
Not Required	Not Required	Not Required	n/a

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WATER HEATING SYSTEMS						
01	02	03	04	05	06	07
Name	System Type	Distribution Type	Water Heater Name (#)	Solar Heating System	Compact Distribution	HERS Verification
DHW Sys 1	Domestic Hot Water (DHW)	Standard Distribution System	DHW Heater 1 (1)	n/a	None	n/a

WATER HEATERS													
01	02	03	04	05	06	07	08	09	10	11	12	13	14
Name	Heating Element Type	Tank Type	# of Units	Tank Vol. (gal)	Energy Factor or Efficiency	Input Rating or Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss or Recovery Eff	1st Hr. Rating or Flow Rate	NEEA Heat Pump Brand or Model	Tank Location or Ambient Condition	Status	Verified Existing Condition
DHW Heater 1	Gas	Consumer Instantaneous	1	0	0.92-UEF	<= 200 kBTU/hr	0	n/a	n/a	n/a	n/a	New	n/a

WATER HEATING - HERS VERIFICATION							
01	02	03	04	05	06	07	08
Name	Pipe Insulation	Parallel Piping	Compact Distribution Type	Recirculation Control	Central DHW Distribution	Shower Drain Water Heat Recovery	
DHW Sys 1 - 1/1	Not Required	Not Required	Not Required	None	Not Required	Not Required	Not Required

SPACE CONDITIONING SYSTEMS										
01	02	03	04	05	06	07	08	09	10	11
Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name	Required Thermostat Type	Status	Verified Existing Condition	Heating Equipment Count	Cooling Equipment Count
HP-11	Heat pump heating cooling	Heat Pump System 1	Heat Pump System 1	n/a	n/a	Setback	New	NA	1	1

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HVAC - HEAT PUMPS										
01	02	03	04	05	06	07	08	09	10	11
Name	System Type	Number of Units	Heating		Cooling		Zonally Controlled	Compressor Type	HERS Verification	
Heat Pump System 1	Ductless MiniSplit HP	1	HSPF/COP	Cap 47	Cap 17	SEER	EER/CEER	Not Zonal	Single Speed	Heat Pump System 1-hers-htpump
			10	18000	15000	16	13			

HVAC HEAT PUMPS - HERS VERIFICATION								
01	02	03	04	05	06	07	08	09
Name	Verified Airflow	Airflow Target	Verified EER	Verified SEER	Verified Refrigerant Charge	Verified HSPF	Verified Heating Cap 47	Verified Heating Cap 17
Heat Pump System 1-hers-htpump	Not Required	0	Not Required	Not Required	Yes	No	No	No

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Revision		
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SHEET
 ENERGY FORMS
 DATE: 10/24/2021
 SHEET

T24-1