



ZONING ADMINISTRATOR AGENDA REPORT

Meeting Date: March 4, 2024

From: Jeremiah Robbins, Associate Planner

Subject: **80 Lily Court; 2024-MM-1;** PD Planned Development; A minor modification to the Design Permit for the Northeast Ridge to allow the enclosure of the rear deck to add approximately 215 square feet of living space to an existing home; and finding the project to be exempt from CEQA per CEQA Guidelines Sections 15301(e); Alexander Gorer, applicant and owner.

REQUEST: The applicant requests approval of a Minor Modification to Design Permit DP-2-89 for the above-referenced residence at the Landmark at the Ridge, a planned development to permit the enclosure of the rear deck allowing for a 215 square-foot addition to the rear of the home.

RECOMMENDATION: Approve 2024-MM-1 per the staff memorandum with attachments, including the findings and conditions of approval.

ENVIRONMENTAL DETERMINATION: The project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) per Section 15301(e) - this project falls within classes of projects which the State has determined not to have a significant effect on the environment. The exceptions to this categorical exemption referenced in Section 15300.2 of the CEQA Guidelines do not apply.

APPLICABLE CODE SECTIONS: Brisbane Municipal Code (BMC) §17.28.120, 17.42.070, and 17.56.090. Additionally, the Vesting Tentative Map Resolution VTM-1-03, for the planned development, Condition "f" provides that minor modifications may be approved by the Planning Director, who acts as the Zoning Administrator

ANALYSIS AND FINDINGS:

Project Description

The subject property is an upslope lot at the intersection of Lily Court and Silverspot Drive and is approximately 8,000 square feet in size. The home is U-shaped with a square, open-air deck occupying the gap between the footprint of the home. The proposed project would enclose the entire deck, expanding the home by 215 square feet. The addition would match the existing orange-tan stucco finish and red-clay concrete roof tiles.

Findings

The findings required for issuance of a design permit are provided in BMC §17.42.040. A detailed analysis for all findings is provided in Attachment A and a summary of how the proposal meets applicable finding follows.

The proposal's scale, form and proportion, are harmonious, and the materials and colors used complement the project.

The scale of the house will not be significantly changed by the addition, the modification would increase the lot coverage and floor area ratio by about seven percent (Attachment C, and neither the height nor the existing setbacks will be changed. The design components, as shown on the plan set (Attachment E), are harmonious to the overall appearance and would not significantly alter the architecture and remain in scale with the surrounding homes in the immediate vicinity.

The homeowners association has approved the proposed plans, as indicated on the attached letter.

The orientation and location of buildings, structures, open spaces and other features integrate well with each other and maintain a compatible relationship to adjacent development.

The location of the addition is infill of the existing footprint of the home. As described above, is compatible with adjacent development in that the design components are harmonious to the overall appearance, the proposal would not significantly alter the architecture and remain in scale with the surrounding homes in the immediate vicinity, and the proposal is comparable in type and scale to past minor modifications to enclose rear decks on U-shaped homes.

Proposed buildings and structures are designed and located to mitigate potential impacts to adjacent land uses.

As discussed above, the project is compatible with adjacent residential land uses.

For hillside development, the proposal respects the topography of the site and is designed to minimize its visual impact. Significant public views of San Francisco Bay, the Brisbane Lagoon and San Bruno Mountain State and County Park are preserved.

The proposal does not change the topography of the site and is designed to minimize its visual impact by matching the height and footprint of the existing structure.

Consideration has been given to avoiding off-site glare from lighting and reflective building materials.

Proposed building materials consist of orange-tan stucco and red-clay concrete roof tile, with no reflective elements. Any exterior lighting must be downlit and fully shielded per condition of approval 2.a.

ATTACHMENTS

A. Draft findings and conditions of approval

2024-MM-1
3/4/2024 Meeting

- B. Aerial vicinity map
- C. Project data table
- D. HOA approval letter
- E. Applicant's plans



Jeremiah Robbins, Associate Planner

2024-MM-1
80 Lily Court

Action Taken: Conditionally approve 2024-MM-1 per the staff memorandum for the Zoning Administrator hearing of March 4, 2024 subject to the following findings and conditions of approval.

2024-MM-1 Findings of Approval:

- A. As no land use changes are proposed, the project is consistent with the General Plan and governing planned development permit for the Northeast Ridge.
- B. The proposed addition maintains a balance of scale, form, and proportion and uses design components that are harmonious.

The scale of the house will not be significantly changed by the addition and neither the height nor the existing setbacks will be changed. The floor area of the home is approximately 2,170 square feet and enclosing the existing deck at the rear of the house would increase that to approximately 2,352 square feet; the modification would increase the lot coverage and floor area ratio by about seven percent. Of note, there are no zoning provisions for this PD district that regulate development standards such as lot coverage, floor area ratio, setbacks, and height.

The design components, as shown on the plan set, are harmonious to the overall appearance. The color palette and finish materials are complementary to the existing stucco and concrete tile roof exterior of the home – orange-tan stucco and red-clay roof tiles – and existing windows will be relocated to the area of the addition. The proposal would not significantly alter the architecture and remain in scale with the surrounding homes in the immediate vicinity. Note that this application is also comparable in type and scale to the minor modifications approved for 10 Lily Court in 2007, 56 Golden Aster Court in 2010, and 77 Golden Aster Court in 2014, to enclose rear decks on U-shaped homes.

The homeowners association has approved the proposed plans, as indicated on the attached letter.

- C. The orientation and location of buildings, structures, open spaces and other features integrate well with each other and maintain a compatible relationship to adjacent development.

The location of the addition is infill of the existing footprint of the home. As described above, is compatible with adjacent development in that the design components are harmonious to the overall appearance, the proposal would not significantly alter the architecture and remain in scale with the surrounding homes in the immediate vicinity, and the proposal is comparable in type and scale to past minor modifications to enclose rear decks on U-shaped homes.

- D. Proposed buildings and structures are designed and located to mitigate potential impacts to adjacent land uses.

Because the location of the addition is infill within the existing footprint of the home and, as described in detail in Finding B, the design is harmonious to the existing structure, the project would remain compatible with adjacent residential land uses.

- E. The project design takes advantage of natural heating and cooling opportunities through building placement, landscaping and building design to the extent practicable, given site constraints, to promote sustainable development and to address long term affordability.

Because this is a minor modification to an existing home, there are limited opportunities to enhance the existing natural heating and cooling; this finding is inapplicable.

- F. For hillside development, the proposal respects the topography of the site and is designed to minimize its visual impact. Significant public views of San Francisco Bay, the Brisbane Lagoon and San Bruno Mountain State and County Park are preserved.

The proposal does not change the topography of the site and is designed to minimize its visual impact by matching the height and footprint of the existing structure.

- G. The site plan minimizes the effects of traffic on abutting streets through careful layout of the site with respect to location, dimensions of vehicular and pedestrian entrances and exit drives, and through the provision of adequate off-street parking. There is an adequate circulation pattern within the boundaries of the development. Parking facilities are adequately surfaced, landscaped and lit.

Because the project is limited to a small addition to an existing single-family home, the proposal will have no impact to adjacent streets, traffic, or circulation generally to the site or within the Northeast Ridge development.

- H. The proposal encourages alternatives to travel by automobile where appropriate, through the provision of facilities for pedestrians and bicycles, public transit stops and access to other means of transportation.

As a minor modification to an existing structure, there is no impact to site access and the proposal will not affect automobile transportation or transportation alternatives.

- I. The site provides open areas and landscaping to complement the buildings and structures. Landscaping is also used to separate and screen service and storage areas, break up expanses of paved area and define areas for usability and privacy. Landscaping is generally water conserving and is appropriate to the location. Attention is given to habitat protection and wildland fire hazard as appropriate.

The addition would not result in removal of planted landscaping, complements the architecture of the existing building, and fits with the surrounding landscape. There is no expansion of landscaping proposed, and therefore, no impact to adjacent conserved Habitat Conservation Plan habitat or established wildland fire buffer areas incorporated into the Northeast Ridge's built environment.

- J. The proposal takes reasonable measures to protect against external and internal noise.

Because the project is limited to improvement of an existing structure in an established residential district, there are no long-term impacts to existing interior or exterior noise levels anticipated. Project construction shall conform to the noise limits and allowable days and times established under BMC Chapter 8.28.

- K. Consideration has been given to avoiding off-site glare from lighting and reflective building materials.

Proposed building materials consist of stucco and concrete roof tile, with no reflective elements. Any exterior lighting must be downlit and fully shielded per condition of approval 2.a.

- L. Attention is given to the screening of utility structures, mechanical equipment, trash containers and rooftop equipment.

Not applicable; no new utility structures, mechanical equipment, trash containers, nor rooftop equipment is proposed.

- M. Signage is appropriate in location, scale, type and color, and is effective in enhancing the design concept of the site.

There is no signage associated with this project; this finding is inapplicable.

- N. Provisions have been made to meet the needs of employees for outdoor space.

There are no employees on this residential property; this finding is inapplicable.

2024-MM-1 Conditions of Approval:

1. Homeowners Association approval is required. Any substantive deviations from the plans approved in this application shall be accompanied by Homeowner's Association authorization submitted with the building permit.
2. A Building Permit shall be obtained from the City of Brisbane and shall address the following:
 - a. All exterior lighting shall be downlit and fully shielded to prevent off-site light trespass and glare.
 - b. Per the Fire Dept., the building permit application shall indicate the total floor area of the home, existing and proposed. As part of the building permit, fire sprinklers shall be extended to provide protection within the new addition.
 - c. All exterior surfaces and materials, including, but not limited to, windows, roofing, and cladding are to match existing.
 - d. Illustrations, cut sheets and/or materials samples will be required by the Community Development Director, at his discretion.
3. This Minor Modification shall expire two years from its effective date (at the end of the appeal period) if a Building Permit has not been issued for the approved project or if the Building Permit, once issued, is allowed to expire prior to final inspection.

4. Minor modifications may be approved by the Community Development Director in conformance with all requirements of the Brisbane Municipal Code.

Aerial Vicinity Map: 80 Lily Court



Project Data

Development Standard	Existing	Proposed
Lot Size	7,921 SF	n/a
Lot Coverage	2,940 SF ft/37%	3,135 SF/40% (138 sq ft increase)
Floor Area Ratio	2,940 SF ft/0.37 FAR	3,135 SF/.40 FAR
(Rear) Setback	~23 feet	No change
Height	~18 feet, 7 inches	No change
Parking	n/a	No change

LANDMARK AT THE RIDGE OWNER'S ASSOCIATION

December 12, 2023

Alexander & Alona Gorer
80 Lily Court
Brisbane, CA 94005

Re: Architectural application – 80 Lily Court - Approved

Dear Homeowner:

The Landmark at the Ridge Owner's Association Board of Directors has reviewed a set of plans submitted by you for the following improvement at your home:

Description of Improvements desired - give full details of type and extent of improvements, materials, colors, and location on the Lot.

Converting Deck into Living Room

Based on the plans submitted and other information, the above improvement was **approved** by this association. This approval is contingent on the following:

- You must comply with the requirement that the addition be architecturally consistent with the existing house.
- Your contractor must hold a valid California Contractors License and must maintain Liability and Workers Comp Insurance for the duration of the project; and
- Any changes to the approved plans must be submitted to the Board before they are made.

Please submit a copy of this letter with any application you submit to the city. If you have any questions about this action, please contact us at 650-637-1616 or by email at CS@manorinc.com.

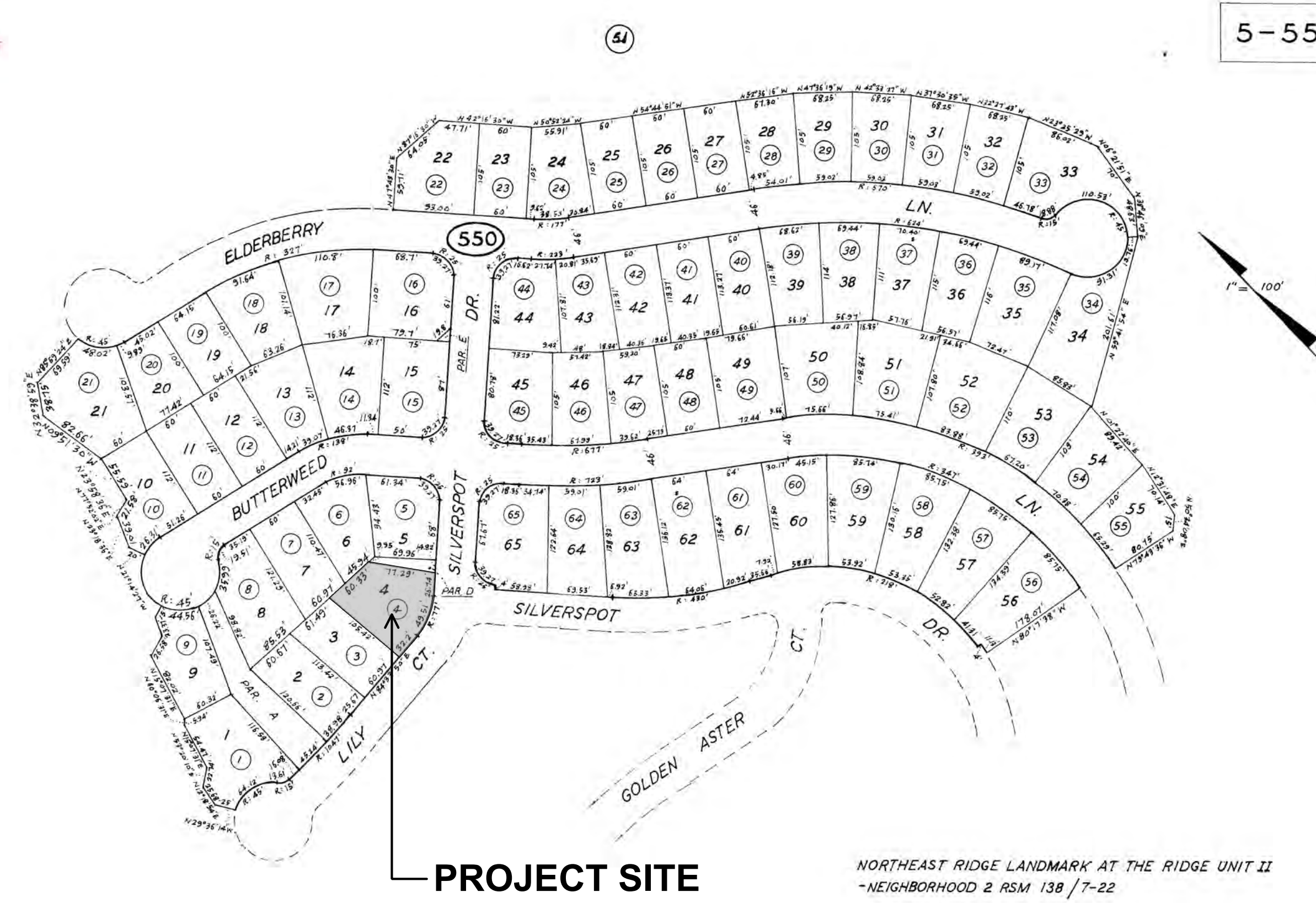
Regards,

The Manor Association, Inc.
On behalf of the Landmark at the Ridge Owner's Association Board of Directors

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ON SITE ALL GRADES, EXISTING IMPROVEMENTS, PROPERTY LINES, EASEMENTS, SETBACKS, UTILITIES AND SUBSTRUCTURES. WHERE DISCREPANCIES OCCUR, CONTACT THE DESIGNER. WORK IS NOT TO CONTINUE UNTIL PROBLEMS ARE RESOLVED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE SITE AND PLANS OF THIS WORK. HE SHALL CLARIFY WITH THE DESIGNER AND OWNER, ALL POINTS OF MISUNDERSTANDING PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELATED WORK.
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AS SHOWN ON THESE PLANS. IF THERE ARE DISCREPANCIES WORK SHALL NOT PROCEED UNTIL THE ENGINEER OF RECORD AND/OR DESIGNER HAVE BEEN NOTIFIED.
- BUILDING CODES:**
ALL NEW CONSTRUCTION SHALL MEET OR EXCEED THE LATEST ADDITION OF CODES ADOPTED BY LOCAL GOVERNING AGENCIES. THESE INCLUDE (BUT ARE NOT LIMITED TO)
2022 CALIFORNIA BUILDING CODE,
2022 CALIFORNIA RESIDENTIAL CODE,
2022 CALIFORNIA PLUMBING CODE,
2022 CALIFORNIA MECHANICAL CODE,
2022 ELECTRICAL CODE,
2022 HEALTH AND SAFETY CODE,
2022 CALIFORNIA FIRE CODE,
2022 CALIFORNIA ENERGY CODE,
2022 CALIFORNIA GREEN CODE,
2022 CALIFORNIA TITLE 24 - CALIFORNIA STATE ENERGY & ACCESSIBILITY STANDARDS
AND ALL OTHER ORDINANCES ADOPTED BY THE LOCAL GOVERNING AGENCIES.
- THESE PLANS ARE FOR GENERAL CONSTRUCTION PURPOSES ONLY. THEY ARE NOT EXHAUSTIVELY DETAILED NOR FULLY SPECIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SELECT, VERIFY, RESOLVE AND INSTALL ALL MATERIALS AND EQUIPMENT.
- THE DESIGNER SHALL NOT BE OBSERVING OR OVERSEEING THE CONSTRUCTION OF THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY CONTROL AND CONSTRUCTION STANDARDS FOR THIS PROJECT.
- ALL ROOF DRAINAGE SHALL BE PIPED TO DRAIN AWAY FROM STRUCTURE.
- FINISH GRADE SHALL PROVIDE POSITIVE DRAINAGE (MIN 5% SLOPE & MINIMUM DISTANCE OF 10' FROM BUILDING.)
- IRRIGATION SYSTEM SHALL BE DESIGNED TO PREVENT SATURATION OF SOIL ADJACENT TO BUILDING.
- WHERE DISCREPANCIES BETWEEN SOILS REPORT AND DESIGNER OCCUR, CONTACT DESIGNER.
- ALL EXTERIOR HOSE BIBS SHALL HAVE NON-REMOVABLE BACK FLOW PREVENTION DEVICES PER CPC 603.1.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS.
- GENERAL CONTRACTOR SHALL VERIFY ALL APPLIANCES & CABINETS WITH HOMEOWNER PRIOR TO PURCHASING AND INSTALLATION.
- WHEN THERE IS A CONFLICT BETWEEN STRUCTURAL DETAILS AND ARCHITECTURAL DETAILS, STRUCTURAL DETAILS TAKE PRECEDENCE.

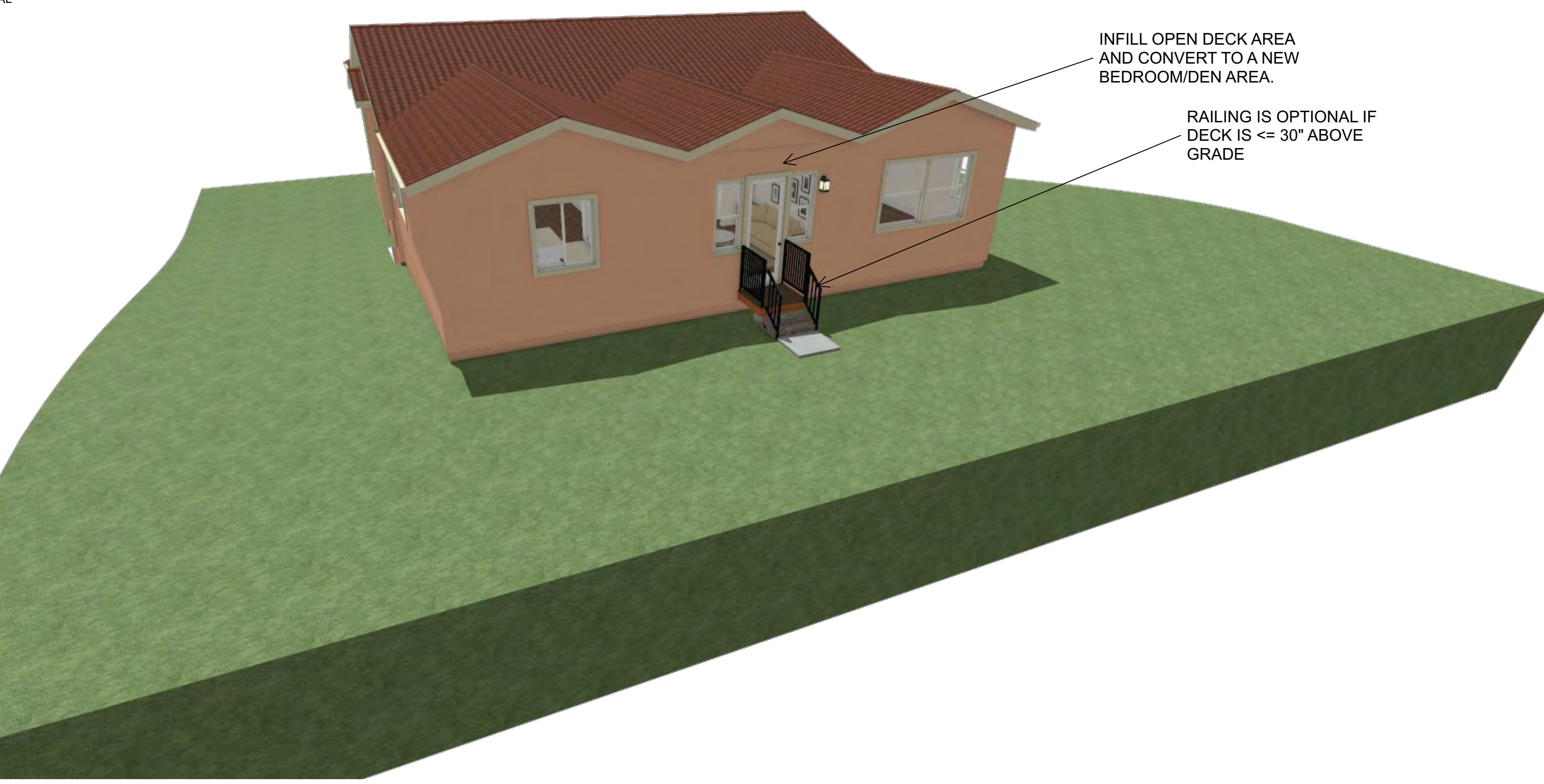
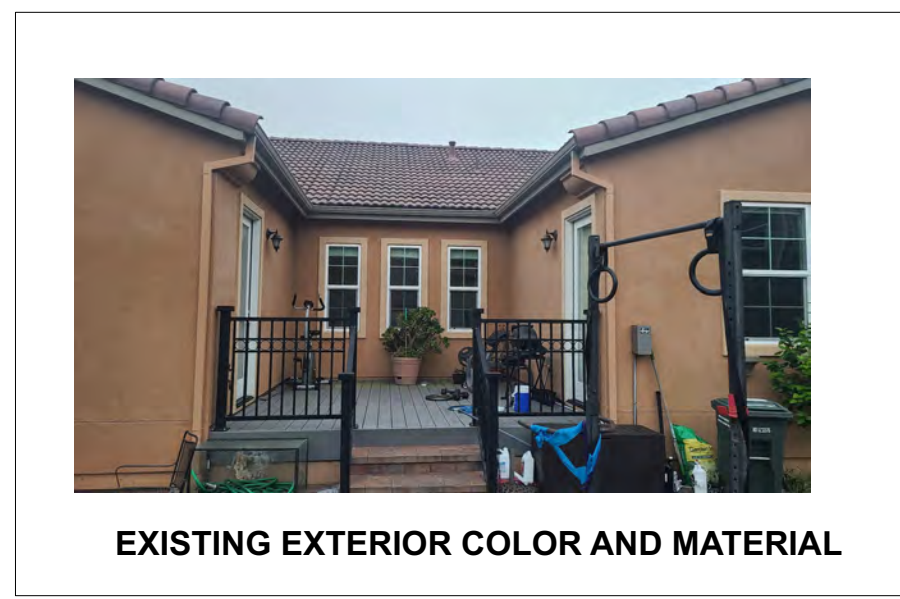
Provided by:
PARCELQUEST



5-55

PROJECT SITE
NORTHEAST RIDGE LANDMARK AT THE RIDGE UNIT II
- NEIGHBORHOOD 2 RSM 138 / 7-22

NOTE:
ALL EXTERIOR MATERIALS AT THE NEW ADDITION SHALL MATCH EXISTING MATERIALS IN TYPE AND COLOR.
EXTERIOR ROOF MATERIAL: CONCRETE TILE
EXTERIOR CLADDING: STUCCO
EXTERIOR COLOR: TO MATCH EXISTING



PROJECT DATA & PROJECT INFORMATION

PROJECT INFORMATION	
APN:	005-550-040
ADDRESS:	80 LILY CT, BRISBANE, CA 94005
YEAR BUILT:	2015
USE:	SINGLE FAMILY DWELLING
ZONING CODE:	
OCCUPANCY GRP:	R3 / U
BED/BA:	
EXISTING RES. AREA:	2,120 SQ FT
EXISTING GARAGE AREA:	APPROX. 645 SQ FT
LOT AREA:	7,921 SQ FT
SEWER:	PUBLIC
WATER:	PUBLIC
UTILITIES:	GAS
FIREPLACES:	NO
SPRINKLERS:	NO
POOL:	NO
BUILDING AUTHORITY:	CITY OF BRISBANE

PROJECT CODES	
OCCUPANCY GROUP	R3 SFD
CONSTRUCTION TYPE	V-B
BUILDING CODES	
2019 CALIFORNIA BUILDING CODE	
2019 CALIFORNIA RESIDENTIAL CODE	
2019 CALIFORNIA ELECTRICAL CODE	
2019 CALIFORNIA MECHANICAL CODE	
2019 CALIFORNIA PLUMBING CODE	
2019 CALIFORNIA FIRE CODE	
2019 CALIFORNIA ENERGY CODE	
2019 CALIFORNIA GREEN BUILDING STANDARDS	

CONSULTANT'S INDEX

CONSULTANT INDEX	
OWNER	ALEXANDER & ALONA GORER 80 LILY CT BRISBANE, CA 94005 (408) 656-7273 REROGA@YAHOO.CA
DESIGN	VIVIAN SZCZEPANKOWSKI 56 HIGHLINE DR LAKE OZARK, MO 65049 (916) 532-8116 VIVIANZEP@GMAIL.COM HOUSEARTE.COM
DRAFTING	KEVIN SZCZEPANKOWSKI 56 HIGHLINE RD LAKE OZARK, MO 65049 (916) 521-3263 KEVINZEP01@GMAIL.COM HOUSEARTE.COM
GENERAL CONTRACTOR	TO BE DETERMINED
STRUCTURAL ENGINEERING	NOT APPLICABLE
BUILDING AUTHORITY	CITY OF BRISBANE 50 PARK PLACE BRISBANE, CA 94005 (415) 508-2120

DESIGN CRITERIA

AREA CALCULATIONS		EXISTING	ADDED OR	TOTAL
			NEW	REMODELED
LIVING SPACE				
FIRST FLOOR		2120	232	2352
TOTAL LIVING		2120	232	2352
NON-LIVING SPACE				
GARAGE - BASEMENT		675	0	675
COVERED PATIOS				
FRONT		145		145
COVERED DECK		0		0
TOTAL NON-LIVING SPACE		820	0	820

NOTES:
AREA TABULATION INCLUDES ENTIRE FOOTPRINT AREA

DESIGN CRITERIA - TYPICAL	
SEISMIC CATEGORY	D
WIND SPEED	110 MPH
WIND EXPOSURE	C
CLIMATE ZONE - 94005	3
SNOW LOAD	0
ROOF LIVE LOAD	20
ROOF DEAD LOAD	15
CEILING LIVE LOAD	10
CEILING DEAD LOAD	10
FLOOR LIVE LOAD	40
FLOOR DEAD LOAD	20
SOIL BEARING	1500 PSF

LOTSIZE (SQ FT):	
TOTAL COVERED AREA	7921
RESIDENCE- FIRST FLR	2352
GARAGE	675
CVRD PATIO- FRONT	145
CVRD DECK	0
ADDITIONAL BLDGS	0
TOTAL COVERED AREA	3172
PERCENT COVERAGE	40%

SCOPE OF WORK

GENERAL: NEW DEN / BEDROOM ADDITION
 CONVERT REAR DECK INTO NEW LIVING SPACE
 REMOVE DECK SURFACE PLANKS
 RETAIN DECK STRUCTURE
 ADD ELECTRICAL AS NEEDED PER CODE REQUIREMENTS
 ADD HVAC DUCT TO CONDITION THE NEW SPACE
 VERIFY SMOKE AND CO DETECTORS ARE INSTALLED
 AND WORKING - REPLACE AS NEEDED

SHEET INDEX				
NUMBER	LABEL	TITLE	DESCRIPTION	COMMENTS
1	A1	COVER SHEET		
2	A1.2	VENTILATION CALCULATIONS		
3	A2	GENERAL CONSTRUCTION NOTES		
4	A3	CAL GREEN MANDATORY MEASURES	SHEET 1 OF 2	
5	A4	SITE PLAN		
6	A5	EXISTING & DEMOLITION PLAN		
7	A6	PROPOSED PLAN		
8	A7	EXISTING & NEW ELEVATIONS		
9	A8	BUILDING SECTIONS		
10	S1	STRUCTURAL NOTES		
11	S2	FASTENING SCHEDULE		
12	S3	FOUNDATION PLAN		
13	S4	ROOF FRAMING PLAN		
14	T1	ENERGY REPORT (1 OF 2)		
15	T2	ENERGY REPORT (2 OF 2)		
16	T3	ENERGY REPORT (3 OF 3)		

House Arte
Residential Design - Drafting - Illustration
HouseArte.com
Kevincep01@gmail.com
(916) 521-3263

ENGINEER

NEW ADDITION FOR:
SASHA & ALONA GORER
 80 LILY CT
 BRISBANE, CA 94005
 APN: 005-550-040

REVISIONS		
NO	DESCRIPTION	DATE

DRAWN BY: **KES**
 DATE DRAWN: **1/25/2024**
 SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
COVER SHEET
- A1 -
 1 OF 16

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SEE ALSO SHEET S3 - FOUNDATION PLAN FOR CRAWL SPACE VENTILATION

Section R408 Under-Floor Space

R408.1 Ventilation

The under-floor space between the bottom of the floor joists and the earth under any building (except space occupied by a basement) shall have ventilation openings through foundation walls or exterior walls. The minimum net area of ventilation openings shall be not less than 1 square foot (0.0929 m²) for each 150 square feet (14 m²) of under-floor space area, unless the ground surface is covered by a Class 1 vapor retarder material. Where a Class 1 vapor retarder material is used, the minimum net area of ventilation openings shall be not less than 1 square foot (0.0929 m²) for each 1,500 square feet (140 m²) of under-floor space area. One such ventilating opening shall be within 3 feet (914 mm) of each corner of the building.

R408.2 Openings for under-floor ventilation

The minimum net area of ventilation openings shall be not less than 1 square foot (0.0929 m²) for each 150 square feet (14 m²) of under-floor area. One ventilation opening shall be within 3 feet (915 mm) of each corner of the building. Ventilation openings shall be covered for their height and width with any of the following materials provided that the least dimension of the covering shall not exceed 1/4 inch (6.4 mm):

1. Perforated sheet metal plates not less than 0.070 inch (1.8 mm) thick.
2. Expanded sheet metal plates not less than 0.047 inch (1.2 mm) thick.
3. Cast-iron grill or grating.
4. Extruded load-bearing brick vents.
5. Hardware cloth of 0.035 inch (0.89 mm) wire or heavier.
6. Corrosion-resistant wire mesh, with the least dimension being 1/8 inch (3.2 mm) thick.

Exception: The total area of ventilation openings shall be permitted to be reduced to 1/1,500 of the under-floor area where the ground surface is covered with an approved Class I vapor retarder material and the required openings are placed to provide cross ventilation of the space. The installation of operable louvers shall not be prohibited.

Ventilation openings in under-floor spaces specified in Sections R408.1 and R408.2 shall not be required where the following items are provided:

1. Exposed earth is covered with a continuous Class I vapor retarder. Joints of the vapor retarder shall overlap by 6 inches (152 mm) and shall be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall or insulation.

MFR CONTACT INFORMATION	
AIRVENT, INC. DALLAS, TX (800) 247-8368	
LOMANCO, INC PO BOX 519 2101 W. MAIN ST JACKSONVILLE, AR 72076 (800) 643-5596	

ATTIC VENTILATION REQUIREMENTS					
Attic ID:	AREA 1				
Total Attic Area (SF):	232				
Vent Ratio:	150				
Total Ventilation Required:	222.72 SI				
Total Ventilation Proposed:	300 SI				
	VENT AREA	VENT TYPE	NFA	QTY	TOTAL VENT (SI)
LOWER 50% =					0
UPPER 50% =	222.72	2	150	2	300
OPTIONAL: USE POWER VENT - MIN CFM CALCULATED BELOW					
POWER VENT REQ:	162.4 CFM				
MIN INTAKE VENT REQ:	111.36 SI				
POWER VENT CALCULATION = ATTIC AREA * 0.70					

STATIC ATTIC VENT TYPES						
TYPE	STYLE	MFR	NAME	PART NO.	NFA (SI)	COMMENTS
1	CONT SOFFIT VENT	LOMANCO			9	VERIFY USE WITH TILE ROOF
2	DORMER	AIR VENT	AIRHAWK ROOF LOUVERS	SLP150	150	
3	DORMER	AIR VENT	AIRHAWK ROOF LOUVERS	RV51	51	HI COLLAR FOR TILE ROOFS
4	CONT RIDGE VENT	LOMANCO	OMNI RIDGE	LOR 9-4	16	VERIFY USE WITH TILE ROOF
5	CONT HIP VENT	LOMANCO	OMNI RIDGE	LOR 9-4	16	VERIFY USE WITH TILE ROOF
6	WALL VENT	LOMANCO	OMNI WALL VENT	OW-4	9	VERIFY USE WITH STUCCO WALL
7	EDGE VENT	LOMANCO	DECK AIR VENT SYSTEM	DA-4	9	VERIFY USE WITH TILE ROOF
8	UNDER EAVE VENT	LOMANCO	STATIC INTAKE VENT	C416	25	

FOUNDATION VENT TYPES						
TYPE	STYLE	MFR	NAME/MODEL	PART NO.	NFA (SI)	COMMENTS
9	DAMPER VENT 8X16	AIR VENT	DAMPER VENT	PLDPBL	64	STATIC
10	POWER VENTS	AIR VENT	SERIES 6, QUIET/ TV6LVQPBL	94005	NA	USE: (VOL * 6) / 7200
11	SCREEN VENT	EZRVENT	FV100-8H-W		31.6	STATIC- FITS 5X14 OPENING

POWER ATTIC VENTS							
TYPE	STYLE	MFR	NAME	PART NO.	CFM	ATTIC AREA	MIN INTAKE VENTS (SI)
PV15	POWER VENT	AIR VENT	POWER COOL 15		1500	2100 SF	720
PV12	POWER VENT	AIR VENT	POWER COOL 12		1170	1650 SF	561.6

ATTIC VENTILATION

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2024-MM-1 ATTACHMENT E
HouseArte.com
Kevincep0@gmail.com
(916) 521-3263

ENGINEER

NEW ADDITION FOR:
SASHA & ALONA GORER
80 LILY CT
BRISBANE, CA 94005
APN: 005-550-040

REVISIONS		
NO	DESCRIPTION	DATE

DRAWN BY: **KES**
DATE DRAWN: **1/25/2024**
SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
VENTILATION CALCULATIONS

GENERAL MECHANICAL NOTES

FROM 2022 CMC

- M-1 Domestic clothes dryer moisture exhaust ducts shall terminate on the outside of the building and shall be equipped with a back draft damper. Sheet metal screws or other fasteners that will obstruct the flow shall not be used. Unless otherwise permitted or required by the dryer manufacturer's installation instructions and by the building official, domestic dryer moisture exhaust ducts shall not exceed a total combined horizontal and vertical length of 14 feet including two 90 degree elbows. Two feet shall be deducted for each 90 degree elbow in excess of two as per CMC Section 504.4.2.1
- M-2 The installation of a listed cooking appliance or microwave oven over a listed cooking appliance shall conform to the conditions of the upper appliances listing and the manufacturers' installation instructions as CMC 920.3.2
- M-3 Appliances in attics shall be accessible through an opening and passageway large enough to accommodate the largest component of equipment. The distance from the passageway access to the appliance shall not exceed 20-feet when the headroom clearance is less than 6-feet and shall be measured along the centerline of the passageway. The passageway shall be unobstructed and shall have continuous solid flooring not less than 24-inches wide from the entrance opening to the appliance. A level working platform not less than 30-inches in depth and width shall be provided in front of the service side of the appliance. A permanent electric outlet and lighting fixture controlled by a switch located at the passageway opening shall be provided at or near the appliance as CMC 304.4
- M-4 Type B or BW gas vents with listed vent caps 12 inches in size or smaller shall be permitted to be terminated in accordance with Figure 8-2, provided they are located at least 8 feet from the vertical wall or similar obstruction. All other Type B gas vents shall terminate not less than 2 feet above the highest point where they pass through the roof and at least 2 feet higher than any portion of a building within 10 feet as CMC 802.6.1
Note: Single wall metal vent connectors shall not originate in an unoccupied attic or concealed space and shall not pass through an attic, inside wall, or concealed space.
- M-5 Listed and unlisted equipment shall comply with the provisions of CMC Chapter 3.
- M-10 Equipment covered by this code that is located in a garage and generate a glow, spark, or flame capable of igniting flammable vapors shall be installed on an enclosed platform with sources of ignition at least 18 inches above the floor level as per CMC 305.1
- M-1 1 Vented decorative appliances, floor furnaces, vented wall furnaces, unit heaters and room heaters shall comply with the provisions of CMC CHAPTER 9
- M-1 2 Duct systems used with blower type equipment that are part of HVAC systems shall be sized in accordance with ACCA Manuel D or other approved method.

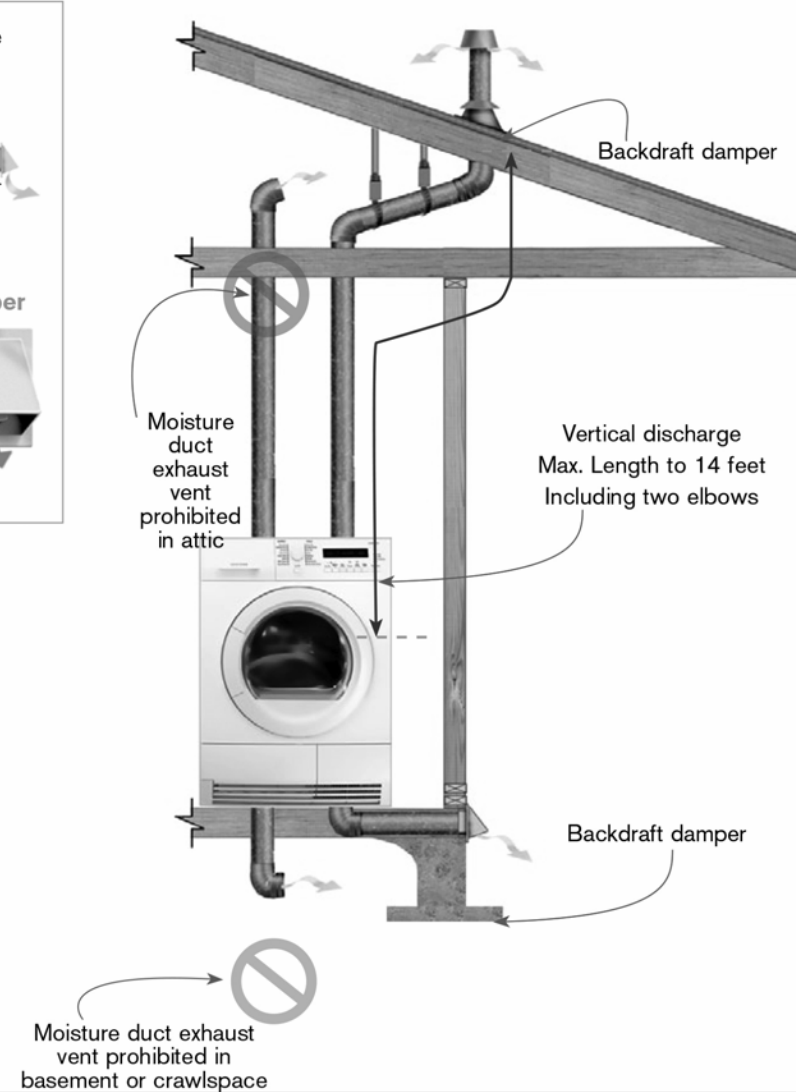
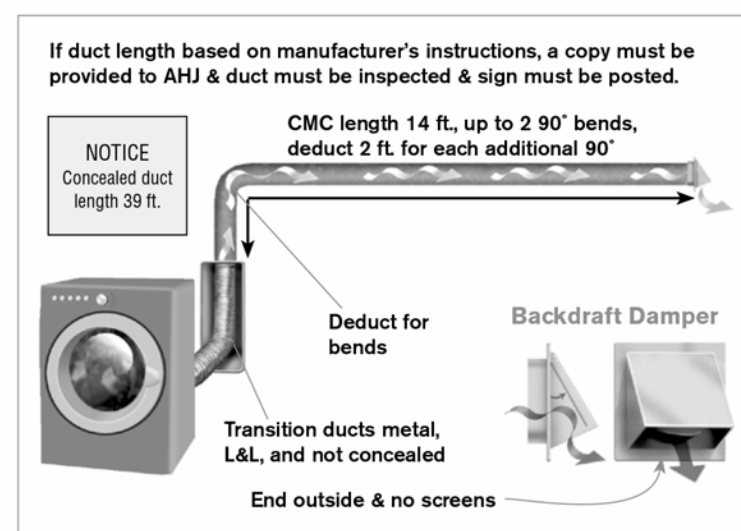
Clothes Dryer & Moisture Exhaust Vents

Moisture exhaust ducts must terminate outside of the building and be equipped with a backdraft damper. Screens are not allowed at the duct termination. It should be noted that a moisture exhaust duct should not be terminated in an attic, even if it is well ventilated, because the moisture vapor may condense on the roof sheathing, rafters or insulation, particularly in cold climates. Exhaust ducts for clothes dryers must not be connected with metal screws or fastening devices which may extend inside the duct. This is to prevent the accumulation of lint, which may create a fire hazard.

The best fasteners for use in this application would be blind pop rivets. To avoid the hazards of cross connections, clothes dryer exhaust ducts may not extend into or through ducts or plenums. Ducts must terminate 3 feet from property line and 3 feet from any openings into the buildings.

Domestic clothes dryer exhaust ducts are not to exceed a total combined vertical and horizontal length of 14 feet, including two 90-degree elbows. Two feet is to be deducted from the total allowed length for each 90-degree elbow in excess of two.

An in-line booster fan requires "Alternate Methods" application and approval from Building Official.



GENERAL PLUMBING NOTES

FROM 2022 CPC

- P-1 Provide an approved dishwasher air gap fitting as per CPC 807.3
- P-2 Potable water outlets with hose attachments, other than water heater drains, boiler drains, and clothes washer connectors, shall be provided a non-removable hose bib type backflow prevention device, a non-removable hose bib type vacuum breaker or by a atmospheric vacuum breaker as per CPC Section 603.5.7
- P-3 Where a fixture comes in contact with the wall or floor, the joint between the fixture and the wall or floor shall be made watertight as per CPC 402.2
- P-4 **Cleanouts are to be accessible per CPC 708. Cleanout clearances per CPC 709.**
- P-5 Gas utilization equipment in garages shall be installed so that burners or burner ignition devices are located at least 18 inches above the floor unless listed as flammable vapor ignition resistant OR AS PER CPC 504.3
- P-8 Water heater installations shall be accessible for inspection, repair, or replacement as per CPC Chapter 5.
- P-9 Water systems containing storage water heating equipment shall be provided with an approved, listed, and adequately sized combination pressure and temperature relief valve as per CPC 504.5
- P-10 Relief valves located inside a building shall be provided with a drain of galvanized steel, hard drawn copper piping and fittings, CPVC, or listed valve drain. The drain shall extend from the valve to the outside of the building with the end of the pipe not more than 2-feet nor less than 6-inches above the ground and pointing downward as per CPC 608.5
Note 1: No part of such drainpipe shall be trapped, and the terminal end of the drainpipe shall not be threaded.
Note 2: Discharge from a relief valve into a water heater pan shall be prohibited as per
- P-11 Water heaters shall be anchored or strapped to resist horizontal displacement due to earthquake motion. Strapping shall be at points within the upper one-third and lower one-third of its vertical dimensions. At the lower point, a minimum distance of 4-inches (101.6 mm) shall be maintained above the controls with the strapping as per CPC 507.2
- P-12 Gas outlets located in a barbecue or fireplace shall be controlled by an approved operating valve located in the same room and outside the hearth but not more than 6-feet from such outlets as per NFPA 5.5.4.
- P-13 Showers and tub-shower combinations in all buildings shall be provided with individual control valves of the pressure balance or the thermostatic mixing valve type with a maximum mixed water setting of 120 degrees as per CPC408.3
- P-14 The minimum capacity for water heaters shall be in accordance with the first hour rating listed in CPC TABLE 501.1(2) BELOW.

TABLE 501.1(2)
FIRST HOUR RATING¹

Number of Bathrooms	1 to 1.5			2 to 2.5			3 to 3.5				
	1	2	3	2	3	4	5	3	4	5	6
Number of Bedrooms	1	2	3	2	3	4	5	3	4	5	6
First Hour Rating, ² Gallons	38	49	49	49	62	62	74	62	74	74	74

For SI units: 1 gallon = 3.785 L

Notes:

- ¹ The first-hour rating is found on the "Energy Guide" label.
- ² Solar water heaters shall be sized to meet the appropriate first-hour rating as shown in the table.

501.2 California Energy Code Water Heating System Requirements [CEC]

See California Energy Code Section 110.3 for additional mandatory requirements for all service water heating systems, and 150.0(n) for additional mandatory requirements for residential service water heating systems.

- P-15 Shut off valves shall be installed in the fuel supply piping outside of each appliance as per ANZI Z21.24 and NFPA 54:9.6.1.
- P-16 Control valves and shower heads shall be located on the sidewall of shower compartment or otherwise arranged so that the showerhead does not discharge directly at the entrance to the compartment and the bather can adjust the valves prior to stepping into the spray per CPC 408.9
- P-17 **MAXIMUM LOADING FOR A 3" HORIZONTAL DRAIN LINE IS 35 DFU. LIMIT OF 5 TOILETS PER CPC TABLE 703.2 - NOTE 4**

GENERAL BUILDING NOTES

FROM 2022 CRC

- B-23 Dwelling units, guest rooms, and congregate residences shall be provided with heating facilities capable of maintaining a room temperature of 68 degree F at a point 3 feet above the floor and 2 feet from exterior walls in all habitable rooms as per CRC Section R303.10
- B-24 Factory built fireplaces and factory built chimneys shall be listed and installed in accordance with the terms of their listing and the manufacturer's instructions as per CRC Section R1004 and R1005.
- B-25 Masonry fireplaces and masonry chimneys, shall be constructed, reinforced and anchored as per CRC Section R1001 and R1003. Required clearances to combustible materials shall be maintained as per Section R1001.11 and R1003.18.
- B-26 Provide attic ventilation as per CRC Section R806 and the California Energy Standards Commission.
- B-27 Fire blocking and draft stopping shall be installed according to CRC Section R302. 11.
- B-28 **REMOVED**
- B-29 Fire blocking and draft stopping shall be installed according to CRC Section R302. 11.
- B-30 All gypsum board, stucco, plaster, and lath shall be installed as per CRC Chapter 7.
- B-31 Exterior wall coverings shall be applied as per CRC Section R703.
- B-32 Braced wall lines shall consist of braced wall panels that meet the requirements for location, type, and amount of bracing specified in CRC section R602.10 and are in line or offset from each other by not more than 4 feet from the designated brace wall line. Braced wall panel end distance requirements shall be per Figure R602. 10.1.4 (2). All braced wall panels shall be clearly identified on the plans as to their type, length and location as per CRC Table R602.10.2.
- B-33 Any braced wall panel required by the CRC Section R602.10 may be replaced by an alternate braced wall panel constructed in accordance with CRC Section R602.10.3.2, Item 1 for one-story buildings and Item 2 for the first story of two-story buildings. Alternate braced wall lengths shall be per Table R602.10.3.2.
- B-34 Conventional Light-Frame Construction complying with the AF&PA WFCM 2008 is an acceptable alternative to the CRC Section R301 .1 prescriptive framing requirements.
- B-35 Buildings, or portions thereof, exceeding the limitations of CRC Section R301 shall be designed or comply with the design requirements of the CBC. Irregularly shaped structures, as defined in Section R301 .2.2.2.5 shall be designed in accordance with accepted engineering practice.
- B-36 Wood framed studs shall be dimensioned as per CRC Table R602.3 (5) for size, height, and spacing.
- B-37 All foundation sills, plates, sleepers, posts, and columns that rest on concrete or masonry must be naturally durable or preservative treated
- B-38 Cutting and notching of exterior walls and bearing walls shall not be greater than 25 percent of the stud width. Cutting or notching of studs to a depth not greater than 40 percent of the width of the stud is permitted in nonbearing walls supporting no loads other than their own weight (CRC Section R602.6).
- B-39 A hole not greater in diameter than 40 percent of the stud width may be bored in any wood stud. Bored holes not greater than 60 percent of the stud width are permitted in nonbearing partitions or in any wall where each bored stud is doubled, provided not more than two such successive doubled studs are so bored CRC Section R602.6).
- B-40 All bearing walls shall be supported on masonry, concrete, foundations, piles, or other approved foundation systems that will be of sufficient size to support all loads. Where a design is not provided, the minimum foundation requirements for stud bearing walls shall be as set forth in CRC Tables R401.4.1 and R403.1.
- B-41 Where post and beam or girder construction is used to support floor framing, positive connections shall be provided to ensure against uplift and lateral displacement as per CRC Section R502.9.
- B-42 Where rafters are not parallel with the ceiling joists, rafter ties shall be installed. Rafter ties shall be a minimum of 2 inch by 4 inch (nominal) and shall be connected to the rafter per Table R802.5.2(1) Collar ties shall be installed per Section R802.5.2.2
MAX SPACING 24" O.C. OR AS APPROVED BY EOR.

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ENGINEER

NEW ADDITION FOR:
SASHA & ALONA GORER
80 LILY CT
BRISBANE, CA 94005
APN: 005-550-040

REVISIONS		
NO	DESCRIPTION	DATE

DRAWN BY: **KES**
DATE DRAWN: **1/25/2024**
SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
GENERAL CONSTRUCTION NOTES

- A2 -
3 OF 16

2022 CALIFORNIA GREEN BUILDING STANDARDS MANDATORY MEASURES

California Green Building Standards Code Residential Mandatory Measures

Planning and Design Site Development (4.106)

Storm Water Protection Measures shall be implemented at the initial phase of construction activity. Projects shall prevent erosion and retain soil runoff on the site through the use of a barrier system, wattle or other approved method.

Sites shall be graded to drain surface water away from foundation walls. The grade shall fall a minimum of 6 inches within the first 10 feet.

Electric Vehicle (EV) Charging for New Construction (4.106.4)

New one- and two-family dwellings and townhouses with attached private garages shall install a listed raceway to accommodate a dedicated 220-volt branch circuit for an EV charger. The raceway shall not be less than nominal 1" inside diameter. The raceway shall originate at the main service or subpanel and shall terminate into a listed enclosure in close proximity to the proposed location of an EV charger. The service panel and/or subpanel shall provide capacity to install a 40-amp minimum dedicated branch circuit and spaces(s) reserved to permit installation of a branch circuit overcurrent protective device.

The service panel or subpanel circuit directory shall identify the overcurrent protective device space(s) reserved for future EV charging as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE".

Water Efficiency and Conservation

Indoor Water Use (4.303)

Water Closets: The effective flush volume of all water closets shall not exceed 1.28 gallons per flush.

Showerheads: Single showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. 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.

Lavatory Faucets: The maximum flow rate of lavatory faucets shall not exceed 1.2 gallons per minute at 60 psi. The minimum flow rate of lavatory faucets shall not be less than 0.8 gallons per minute at 20 psi.

Kitchen Faucets: The maximum flow rate of kitchen faucets shall not exceed 1.8 gallons per minute at 60 psi.

Outdoor Water Use (4.304)

Automatic irrigation system controllers for landscaping provided by the builder and installed at the time of final inspection shall be weather-based.

Material Conservation and Resource Efficiency

Enhanced Durability and Reduced Maintenance (4.406)

Annular spaces around pipes, electric cables, conduits or other openings in sole/bottom plates at exterior walls shall be protected against the passage of rodents by closing such openings with cement mortar, concrete masonry or a similar method acceptable to the enforcing agency.

Construction Waste Reduction, Disposal and Recycling (4.408)

Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste.

Documentation shall be provided to the enforcing agency to demonstrate compliance with the construction waste management plan at the time of final inspection.

CALGREEN 301.1.1. WATER FIXTURE UPGRADES

ON OR AFTER JANUARY 1, 2014, FOR ALL BUILDING ALTERATIONS OR IMPROVEMENTS TO SINGLE FAMILY RESIDENTIAL REAL PROPERTY, AS A CONDITION FOR ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION AND OCCUPANCY OR FINAL PERMIT APPROVAL BY THE LOCAL BUILDING DEPARTMENT, THE PERMIT APPLICANT SHALL REPLACE ALL NONCOMPLIANT PLUMBING FIXTURES WITH WATER CONSERVING PLUMBING FIXTURES.

NONCOMPLIANT FIXTURES SHALL HAVE A FLOWRATES THAT EXCEEDS THE FOLLOWING:

- WATER CLOSETS: 1.6 GPF (GALLONS PER FLUSH)**
- SHOWERHEADS: 2.5 GPM**
- KITCHEN FAUCETS: 2.2 GPM**
- LAVATORY FAUCETS: 2.2 GPM**

Life Cycle Assessment (4.409)

At the time of final inspection, a maintenance and operation manual, compact disc, web-based reference or other media acceptable to the enforcing agency shall be provided to the building occupant or owner.

Environmental Quality

Fireplaces (4.503)

Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Limits Standards (NSPS) emission limits where applicable.

Pollutant Control (4.504)

At the time of rough installation, and until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered.

Adhesives, sealants and caulks shall be compliant with VOC and other toxic compound limits of Tables 4.504.1 and 4.504.2.

Paints, stains and other coatings shall be compliant with VOC limits of Table 4.504.3.

Aerosol paints and coatings shall meet the Product-weighted MIR Limits for ROC and other toxic compounds.

Verification that compliant VOC limit materials have been used shall be provided at the request of the enforcing agency.

Carpet systems shall comply with the requirements of Section 4.504.3.

Where resilient flooring is installed, at least 80% of the floor area receiving resilient flooring shall comply with the requirements of Section 4.504.4.

Composite wood products shall comply with the maximum formaldehyde limits of Table 4.504.5.

Interior Moisture Control (4.505)

Concrete slabs in habitable spaces shall have a vapor retarder in direct contact with the concrete unless an alternative design is provided by a licensed design professional.

Wall and floor framing shall not be enclosed when the framing members exceed 19 percent moisture content. Moisture content shall be verified by means of moisture readings using a moisture meter.

Indoor Air Quality and Exhaust (4.506)

Each bathroom shall be mechanically ventilated with an Energy Star compliant fan.

Unless functioning as a whole house ventilation system, bathroom fans shall be controlled by a humidistat which shall be readily accessible. Humidistat controls shall be capable of adjustment between a relative humidity range of 50 to 80 percent.

Environmental Comfort (4.507)

Heating and air-conditioning systems shall be sized, designed and have their equipment selected using the following methods:

1. The heat loss and heat gain is established according to ANSI/ACCA 2 Manual J-2011(Residential Load Calculation), ASHRAE handbooks or other equivalent design software or methods.
2. Duct systems are sized according to ANSI/ACCA 1 Manual D-2014 (Residential Duct Systems), ASHGAE handbooks or other equivalent design software or methods.
3. Select heating and cooling equipment according to ANSI/ACCA 3 Manual S-2014 (Residential Equipment Selection) or other equivalent design software or methods.

Installer Qualifications

Qualifications (702)

HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems.

1

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ENGINEER
Kevincep01@gmail.com
(916) 521-3263
HouseArte.com

NEW ADDITION FOR:
SASHA & ALONA GORER
80 LILY CT
BRISBANE, CA 94005
APN: 005-550-040

REVISIONS		
NO	DESCRIPTION	DATE

DRAWN BY: **KES**
DATE DRAWN: **1/25/2024**
SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
CAL GREEN MANDATORY MEASURES

- A3 -
4 OF 16

AREA OF ADDITION

(E) SETBACK

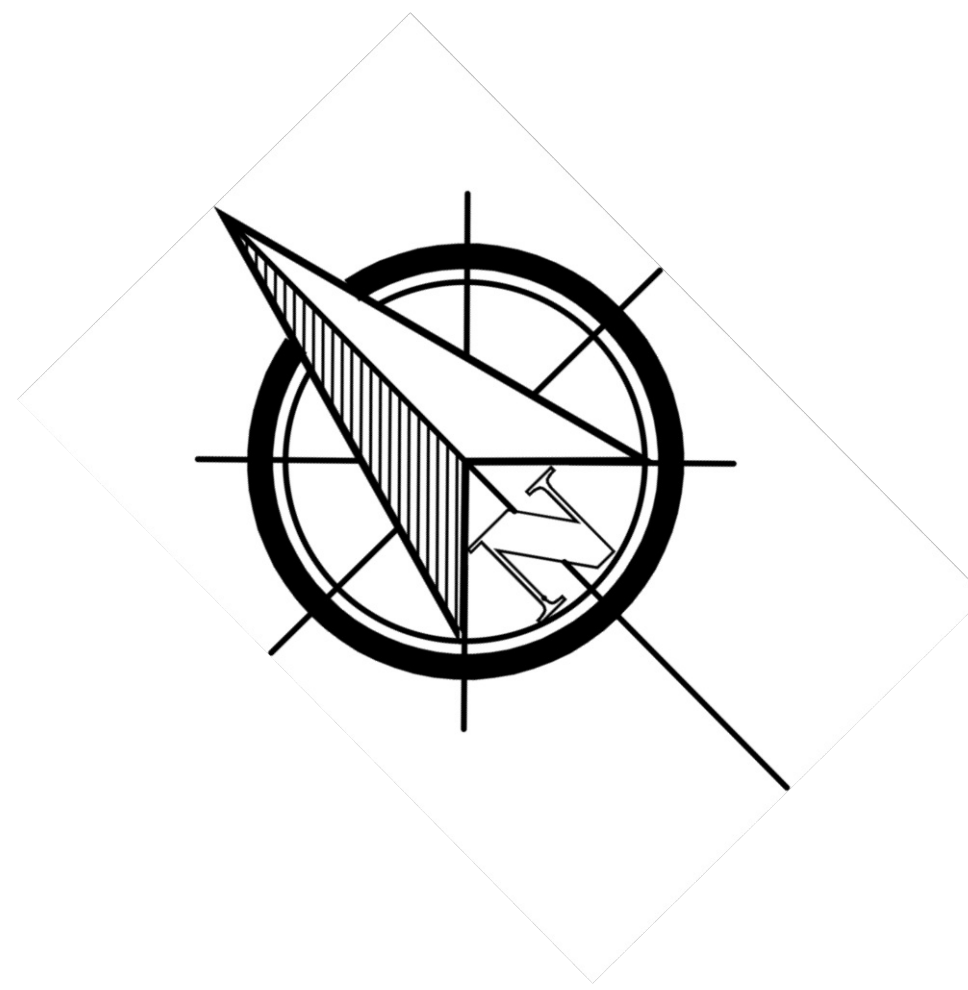
AREA OF EXISTING

77.29'

60.33'

105.42'

LILY CT



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DATE DRAWN: **1/25/2024**
SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
SITE PLAN

House Arte
Residential Design - Drafting - Illustration
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HouseArte.com

ENGINEER

ENGINEER

NEW ADDITION FOR:
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APN: 005-550-040

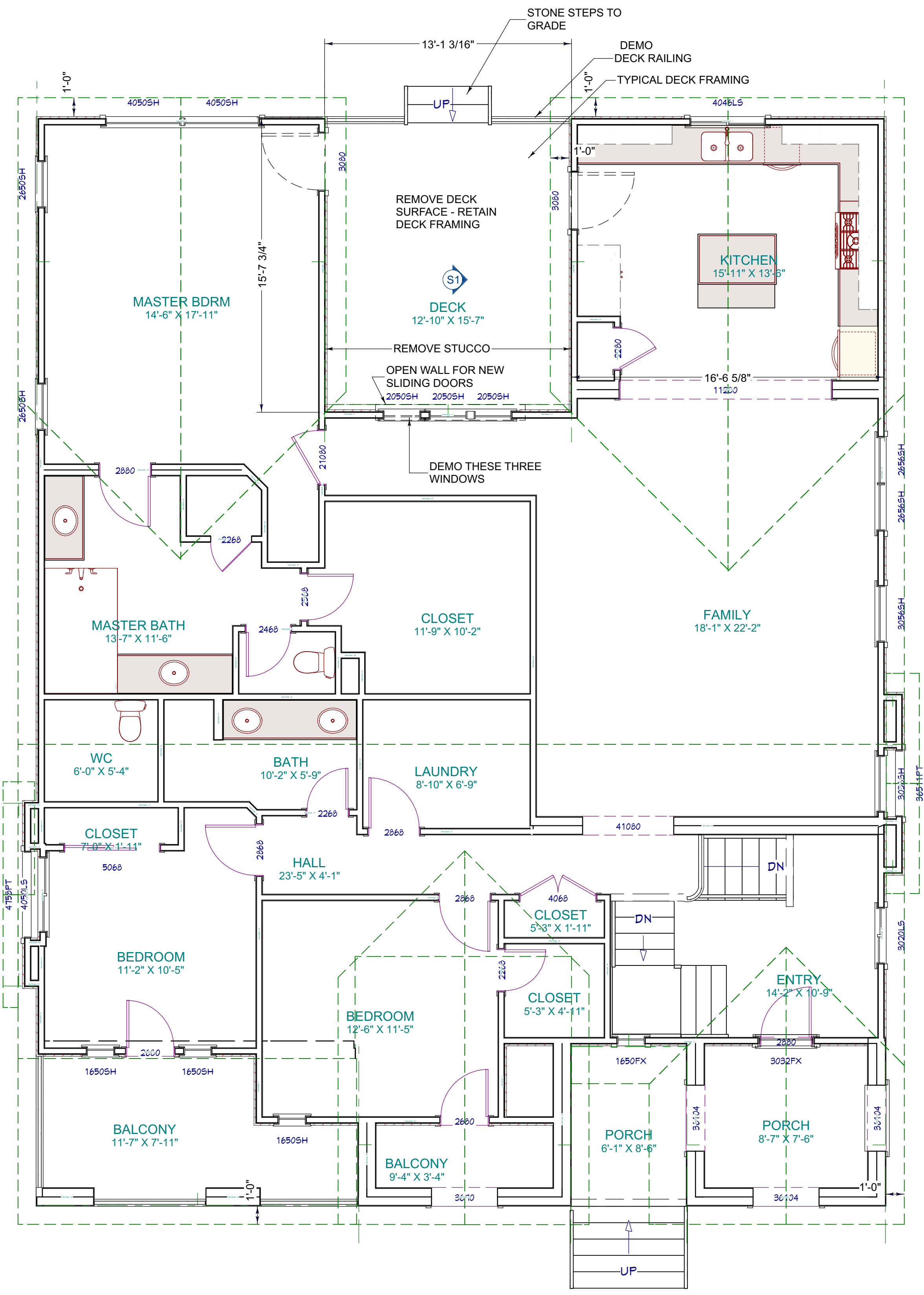
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NO	DESCRIPTION	DATE

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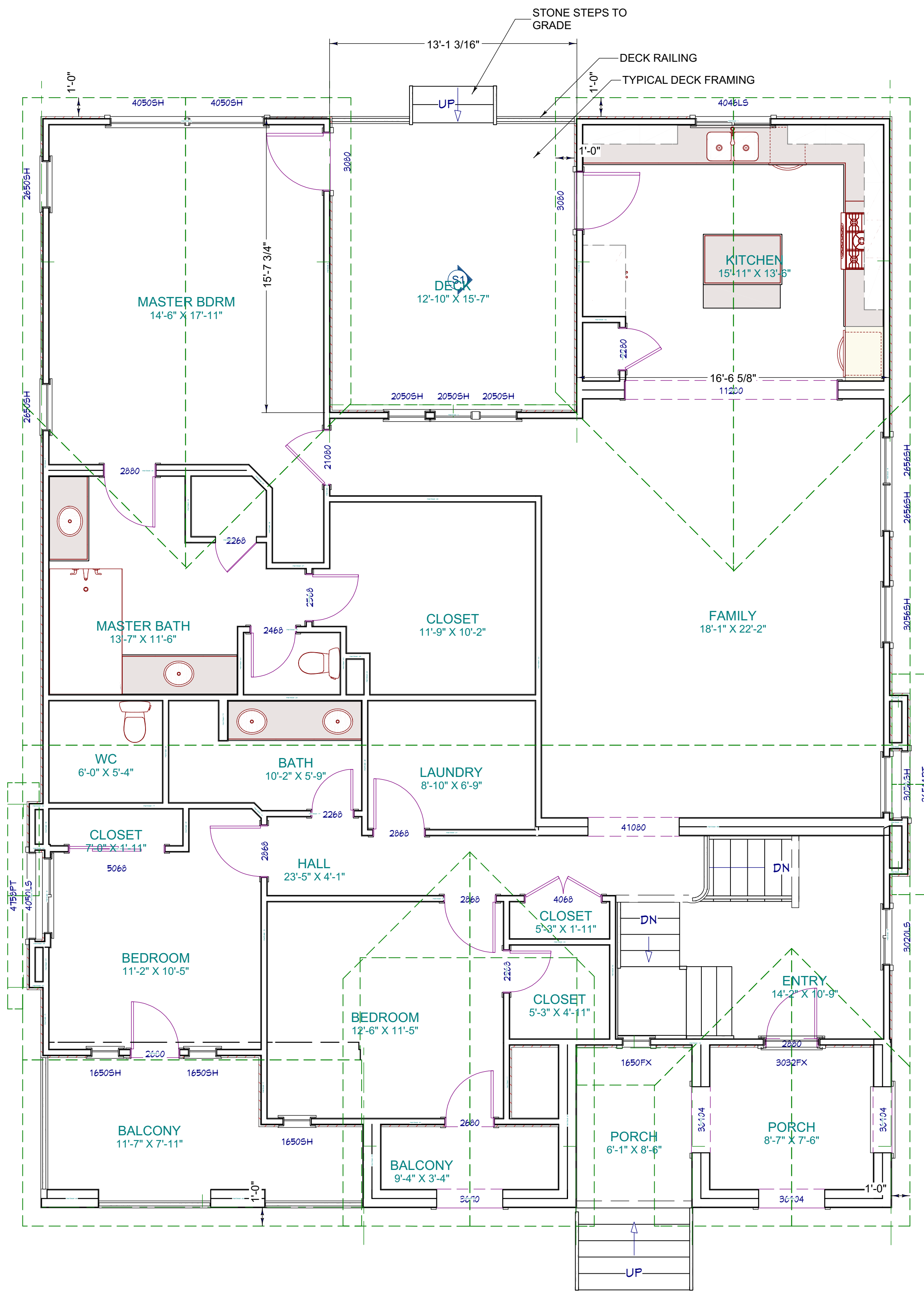
CONCEPT
EXISTING & DEMOLITION PLAN

- A5 -

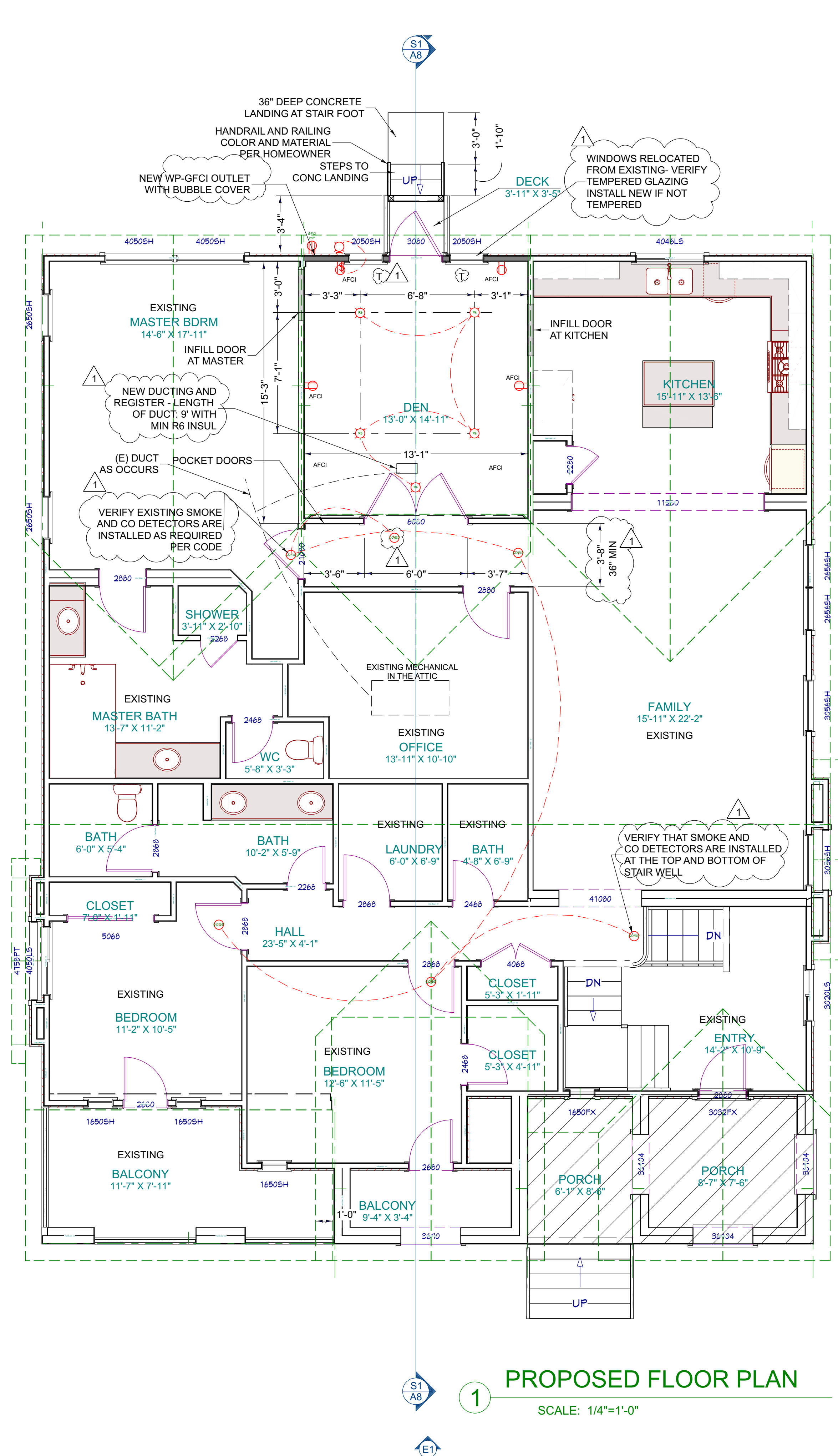
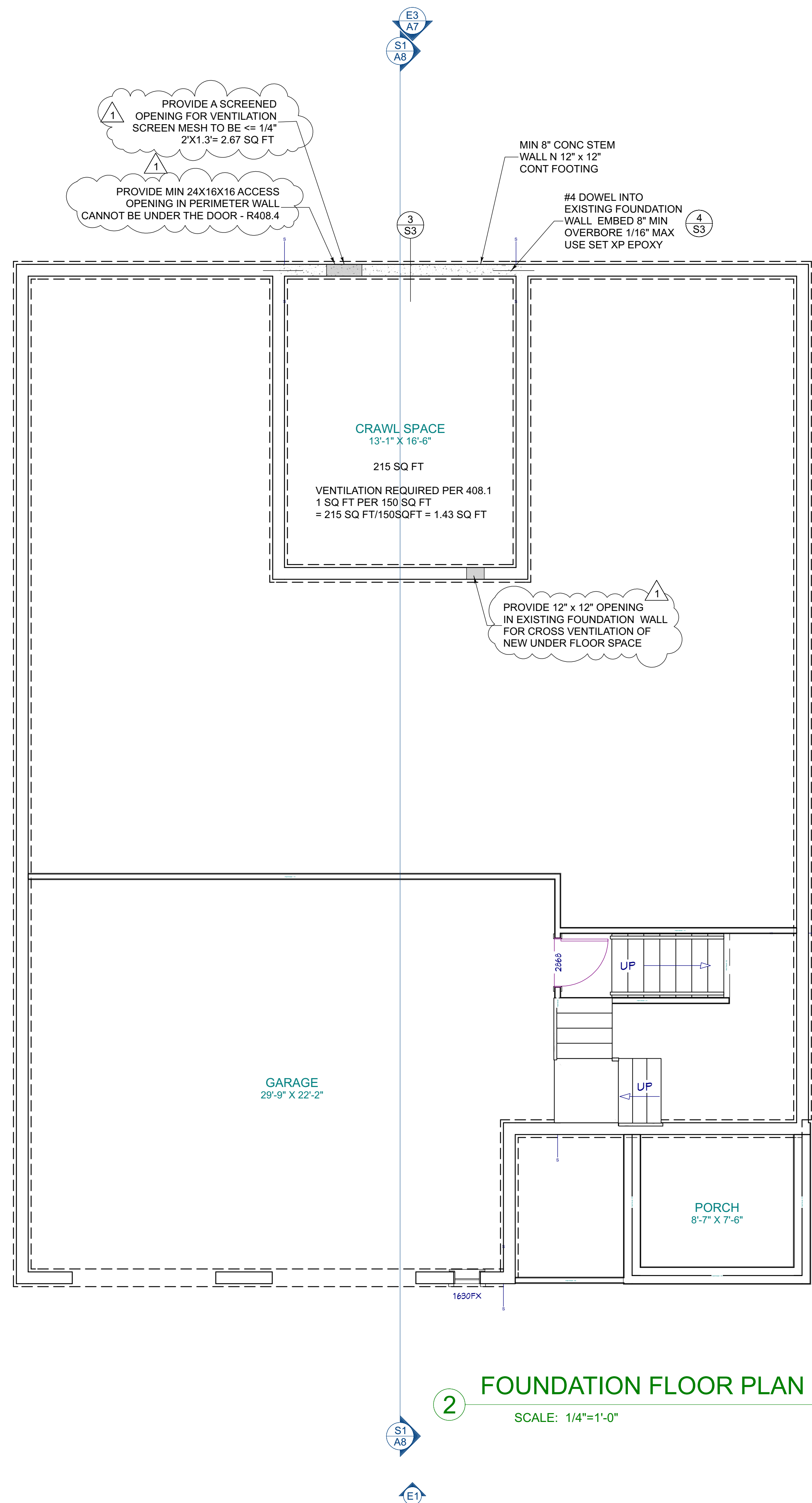
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2 DEMOLITION FLOOR PLAN
 SCALE: 1/4"=1'-0"



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



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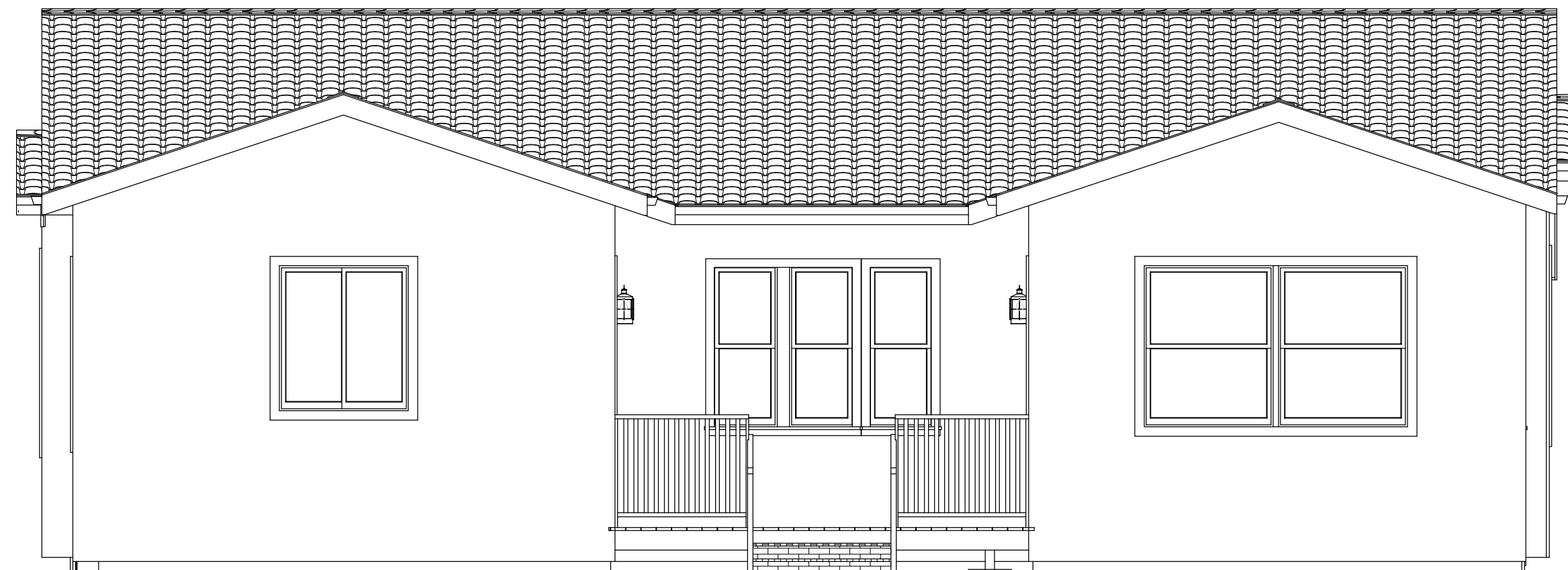
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CONCEPT
PROPOSED PLAN

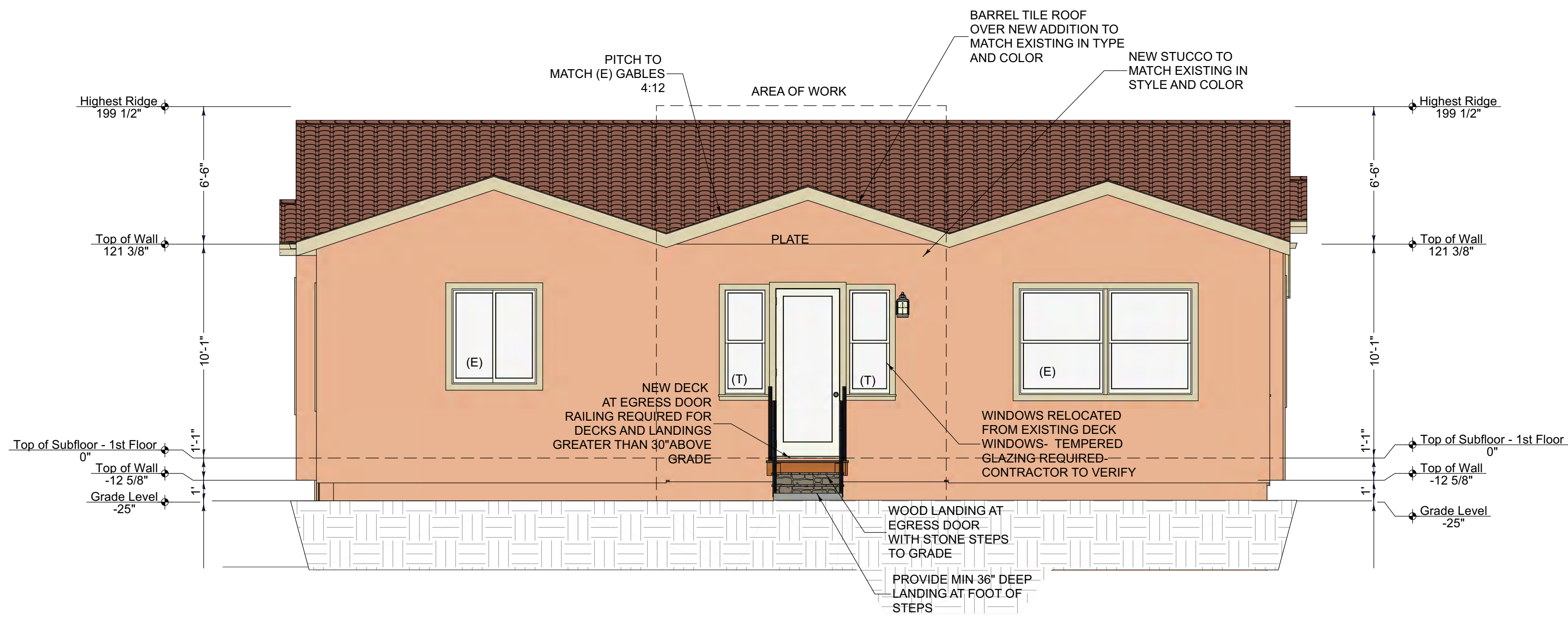
2024-MM-1
ATTACHMENT E

House Arte
Residential Design - Drafting - Illustration
 HouseArte.com
 Kevincep0@gmail.com
 (916) 521-3263

ENGINEER



1 EXISTING REAR ELEVATION
SCALE: 1/4"=1'-0"



2 PROPOSED REAR ELEVATION
SCALE: 1/4"=1'-0"

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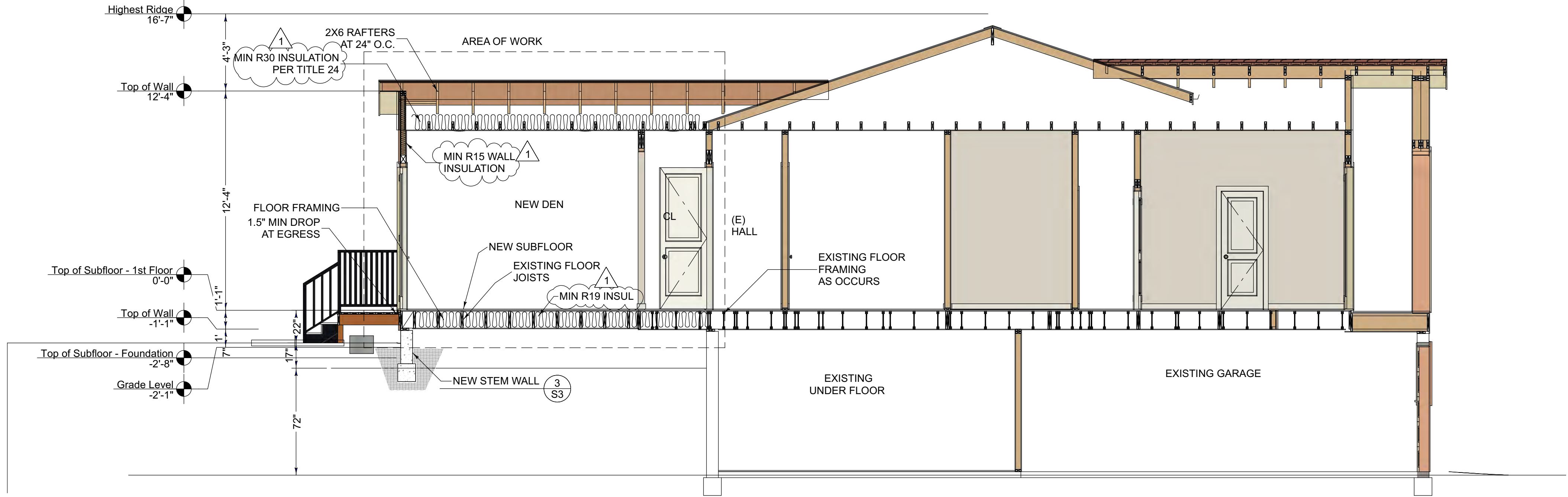
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NO	DESCRIPTION	DATE

DRAWN BY: **KES**
DATE DRAWN: **1/25/2024**
SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
EXISTING /
NEW ELEVATIONS

- A7 -

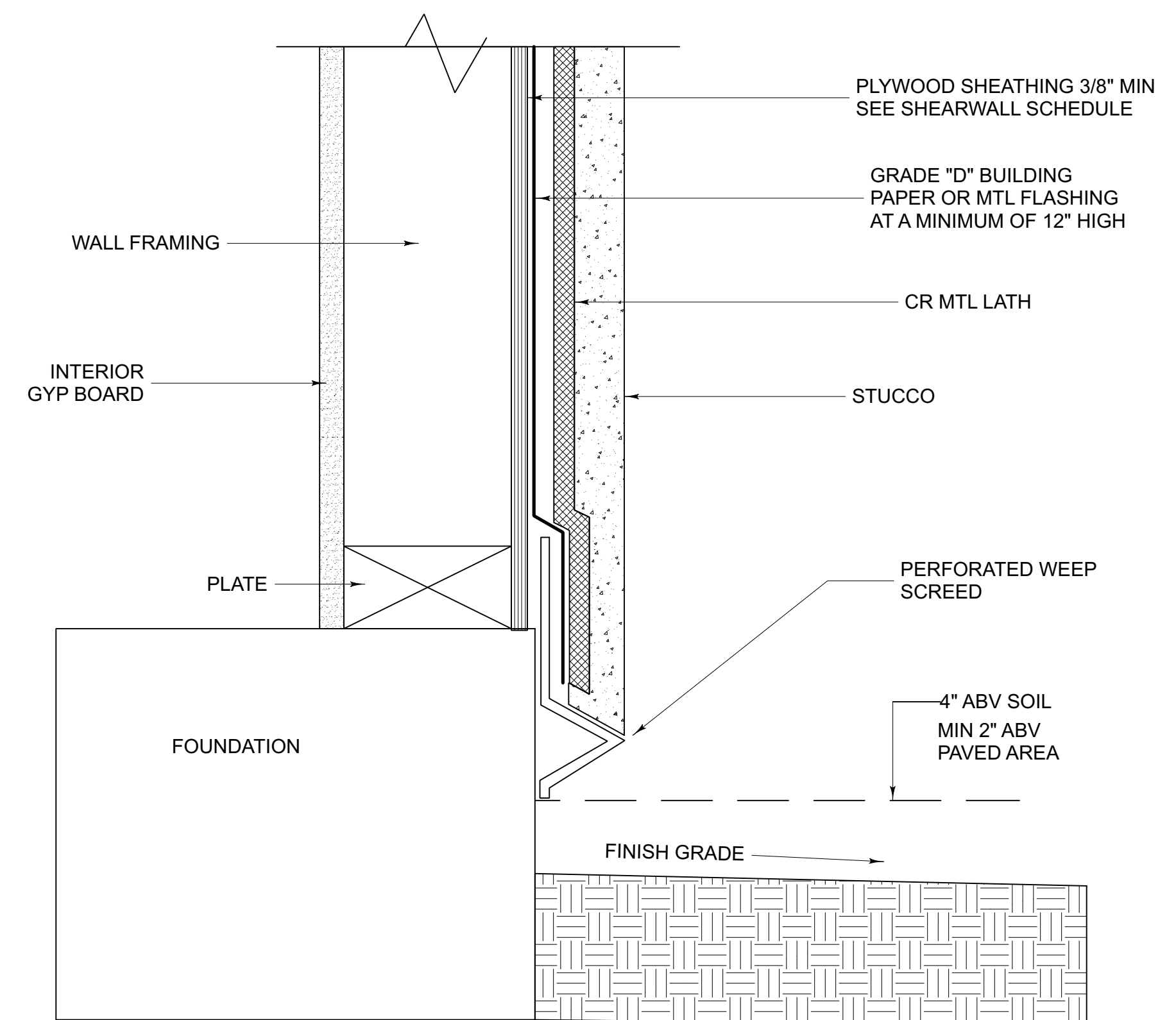
ENGINEER



S1 EXISTING REAR ELEVATION
SCALE: 1/4"=1'-0"

WEEP SCREED AND FLASHING

- NOTES:**
- 1- WEEP SCREED SHALL COMPLY WITH ASTM C 926.
 - 2- PROVIDE A MINIMUM OF 26 GA GALVANIZED SHEET CORROSION RESISTANT WEEP SCREED WITH A MINIMUM VERTICAL ATTACHMENT FLANGE OF 3-1/2" SHALL BE PROVIDED AT OR BELOW THE FOUNDATION PLATE ON ALL EXTERIOR STUD WALLS THAT HAVE EXTERIOR STUCCO OR PLASTER CLADDING.
 - 3- THE WEATHER RESISTANT BARRIER SHALL LAP THE ATTACHMENT FLANGE, AND THE EXTERIOR LATH SHALL COVER AND TERMINATE ON THE ATTACHMENT FLANGE OF THE SCREED.



1 WEEP SCREED DETAIL
SCALE: NONE

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NO	DESCRIPTION	DATE

DRAWN BY: **KES**
DATE DRAWN: **1/25/2024**
SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
BUILDING SECTIONS



(916) 521-3263

Kevin@housearte.com

ENGINEER

NEW ADDITION FOR: SASHA & ALONA GORER 80 LILY CT BRISBANE, CA 94005 APN: 005-550-040

REVISIONS

Table with 3 columns: NO, DESCRIPTION, DATE

DRAWN BY: KES DATE DRAWN: 1/25/2024

SCALE: 1/4"=1'-0" U.N.O. TYP.

CONCEPT STRUCTURAL NOTES

GENERAL REQUIREMENTS

- 1. Work performed shall comply with the following:
2. These General Requirements unless otherwise noted on plans or specifications.
3. Building Code - CBC 2022
4. All applicable local, State and Federal Codes, Ordinances, Laws, regulations and Protective Covenants governing the site of work.
5. Standard Specifications of ASTM as noted herein and as required by the Building Code.
6. All work needs to be performed by qualified and experienced contractors familiar with this type of project.
7. In case of conflict, the more stringent requirement shall govern.
8. On site verification of all dimensions and conditions shall be the responsibility of the contractor and sub-contractors.
9. Engineer or architect of record is to be notified immediately by the contractor should any question arise or any discrepancy be found pertaining to the working drawings and/or specifications.
10. No deviations from these requirements and structural details shall be made without the written approval of E.O.R.
11. The design, adequacy, and safety of erection bracing, shoring, temporary supports, etc., is the sole responsibility of the contractor...

DESIGN CRITERIA

- A. FLOOR AND ROOF LIVE LOADS.
1. ROOF20 PSF
2. FLOOR40 PSF
B. WIND LOAD
1. ULTIMATE DESIGN WIND SPEED, VULT110 MPH
2. NOMINAL DESIGN WIND SPEED, VASD85 MPH
3. WIND EXPOSURECATEGORY B
4. RISK CATEGORYCATEGORY II
C. SEISMIC LOAD.
1. SEISMIC DESIGN CATEGORYCATEGORY D
Ss = 0.442g Si = 0.219g R = 6.5
Sa = 0.426g Sm = 0.640g Cs = 0.066
2. SITE CLASSCLASS D: DEF
3. IMPORTANCEI
D. FOUNDATION -
1. NO FOUNDATION REPORT
2. DESIGN LOAD-BEARING VALUES OF SOILS = 1500 PSF.

REINFORCED CONCRETE

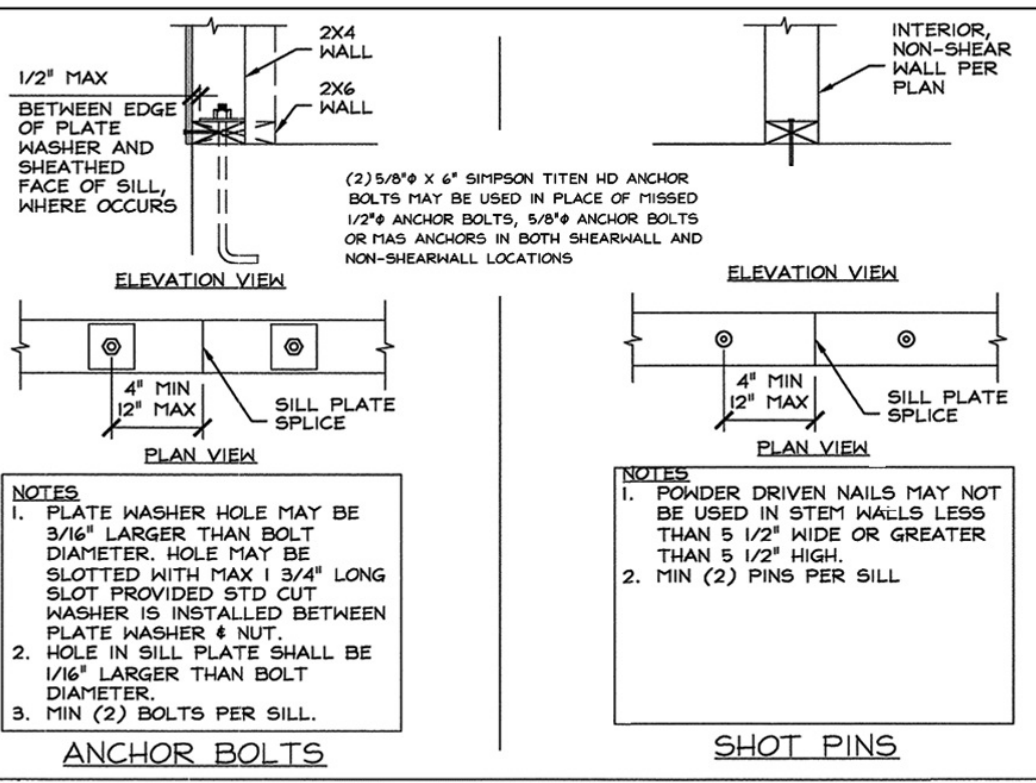
- 1. All reinforced concrete materials and construction shall conform to Building Code, chapter 19. MATERIALS
2. Cement shall conform to Section 1903 of Building Code and shall correspond to that on which the selection of concrete proportions were based.
3. Concrete aggregates shall conform to Building Code Section 1903.
4. Portland cement shall be Type I or II conforming to ASTM C150.
5. Reinforcing steel shall conform to ASTM A615, Grade 60 for all sizes.
6. Dowels shall be equal in size and spacing.
7. The 28 days concrete compressive strength, Fc, shall be min 2500 psi U.N.O.
8. Special inspection is required for concrete with Fc > 2500 psi
9. All reinforcing, dowels, holdowns, and other inserts shall be secured in position and approved by the local building official prior to the pouring of any concrete.
10. Min. concrete cover for reinforcing:
a. Concrete placed against earth not formed - 3"
b. Concrete formed or troweled - 2"

FOUNDATION

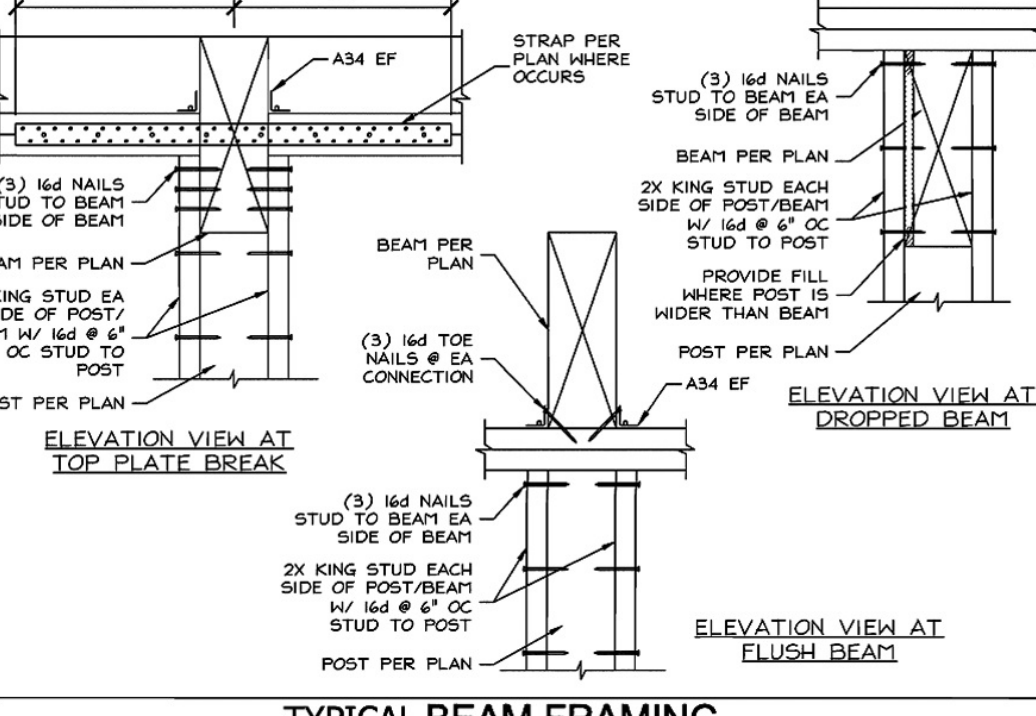
- 1. All continuous footings to have 5/8" dia. x min. 12" anchor bolts, min. 7" embedment into concrete footing at 72" o.c. unless noted otherwise on plans.
2. Anchor bolts shall be located max. 12" away and min. 9 1/2" from the end of the sill plate.
3. Anchor bolts at shear walls shall be installed with plate washers of min. 3" sq. x 0.225" thick between sill plate and nut.
4. Min. concrete width to be 8" for receiving PA, HPA & STDH's.
5. Provide #3 X 24" dowel at 24" o.c. and 12" from the corner at all concrete stoops and porches.
6. Provide min. (1) #4 reinforcing for electrical ground, location to be verified with the electrical contractor.
7. Verify min. foundation depth, width, reinforcing steel and additional expansive soil requirements with valid soils report and if more stringent, they shall supersede the above minimum requirements.
8. Admixtures in concrete mix, containing calcium chlorides shall not be used.
9. Footings shall be examined and certified in writing by the project soil/geology engineer prior to inspection and placement of concrete.
10. Concrete shall be to the strength and slump as specified per structural design, and consist of Portland cement ASTM C-150 Type V per soils engineer's recommendations and Building Code section 1904.3 (ACI 318 section 4.3) when exposed to sulfate containing soils.
11. Placement shall be in one continuous operation unless otherwise specified.
12. Contractor shall dampen slab underlayment of sand/membrane just prior to concrete placement to assist uniform concrete curing.
13. The bottoms of footing excavations shall be level, clean and free of loose material or water when concrete is placed.
14. Concrete placement shall be monolithic in one continuous operation uniformly placed and must be vibrated and well consolidated unless shown otherwise on plans.
15. Floor slab shall be poured level to 1/8" in 10'.

STRUCTURAL WOOD

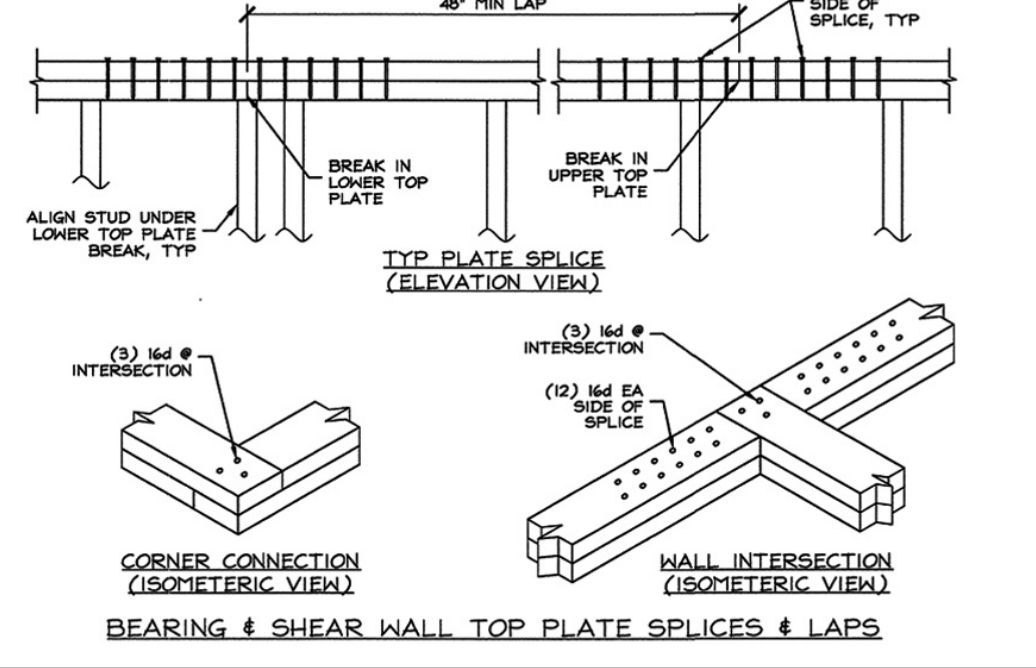
- 1. MINIMUM QUALITY
All structural wood shall be of Douglas Fir Larch species, (19% maximum moisture content at the time of construction U.N.O.).
2. All machine bolts shall conform to ASTM A307.
3. For non-shear wall applications, round washers shall be used on all bolts and should conform with ANSI/ASME B 18.22.1.
4. All nails shall be 5/8" bolt and 2 1/2" x 11/64" thick washer for 1" bolt.
5. Adhesive used to attach floor sheathing to framing elements shall conform with APA specification AFG-01.
6. Manufactured hardware specified on the drawings are to be Simpson Strong Tie (Unless specifically authorized in writing by E.O.R.)
7. LUMBER GRADES (U.N.O.)
6x & 8x posts / beams / headers: DFL #1
4x posts / beams / headers: DFL #2
2x joists / rafters: DFL #2
8. TYPICAL FLOOR SHEATHING
2x/3x/4x APA rated Stud-Floor T&G Exp I with a min. span rating of 24" o.c.
9. TYPICAL ROOF SHEATHING
15/32" APA rated sheathing Exp 1 with a min. panel index of 32/16.
10. All framing, bracing, nailing, notching, drilling or boring shall be in accordance with Building Code unless more stringent requirements are specified or required by the local jurisdiction.
11. Stud walls perpendicular to a concrete or masonry wall shall be bolted to the concrete or masonry wall with 5/8" diameter x 8" A307 bolts at top, mid-height and bottom.
12. Stud walls perpendicular to a concrete or masonry wall shall be bolted to the concrete or masonry wall with 5/8" diameter x 8" A307 bolts at top, mid-height and bottom.
13. All wood exposed to weather conditions must be pressure treated with hot dipped galvanized connectors as specified in note 11.
14. Conventional light frame construction requirements of chapter 23 should be followed as required.
15. Weight of the roof tile is considered to be 10 psf max.
16. Top plates of all wood stud walls to consist of (2) 2x's the same width as the studs U.N.O.
17. All shear panels shall have continuous sheathing material from one end to the other and from plate to plate as specified on the drawings.
18. All ledgers shall be spliced with ST22 strap, unless noted otherwise.
19. All shear transfer nailing shall be per drawings, and contractor shall provide proper notification for inspections to review the same.
20. Provide post/multiple studs at lower floor under post/multiple studs above.
21. All joist hangers shall be Simpson U-hanger, all beam hangers shall be Simpson HU hangers U.N.O.
22. If a double sill plate is used at light-weight concrete flooring, then the framing contractor shall apply sill plate nailing to both sill plates, at 16" o.c. max. or as specified per schedule.
23. No multiples of 2x4's are allowed to span more than 14'-0".
24. Headers: Use 4x4 for openings less than 16" at bearing walls without point loads.
25. Approved end-jointed lumber may be used interchangeably with solid sawn members of the same species and grade for buildings up to 2-story.
26. Wood truss manufacturer shall supply to the engineer and the building department calculations and shop drawings for approval of design loads, configuration (2 or 3 point bearing), and shear transfer, prior to fabrication.
27. Trusses shall be designed in accordance with the latest local Building Code for all loads imposed, including lateral loads and mechanical equipment loads.
28. All connections involving trusses shall be ICC approved and of adequate strength to resist stresses due to the loadings involved and shall be designed and specified by the truss manufacturer.
29. Truss members and engineered wood products (i.e. prefabricated wood joist, structural glued-laminated timber and structural composite lumber) cannot be cut, notched, drilled, spliced or otherwise altered in any way without the approval of a registered design professional (CRC)
30. Cross bracing and/or bracing shall be provided and detailed by the truss manufacturer as required to adequately brace all trusses.
31. Truss manufacturer to provide details which allow for normal deflection without imposing lateral loads on their supports (i.e. scissors trusses).
32. Truss manufacturer is responsible for:
a. providing additional shear and drag trusses as shown on the framing plans.
b. reviewing framing plans and details prior to fabrication of trusses and specifying hangers.
c. meet the profile as indicated in the architectural and structural drawings.
d. design trusses for deflection compatibility of the system to avoid hump and sag in roof or ceiling.
33. All trusses designed by truss manufacturer shall be designed to sustain all vertical, lateral and other pertinent loads, including bracing of top and bottom chords, in addition to any connections related to trusses.
34. All truss lumber shall be Douglas Fir Larch (U.N.O.).



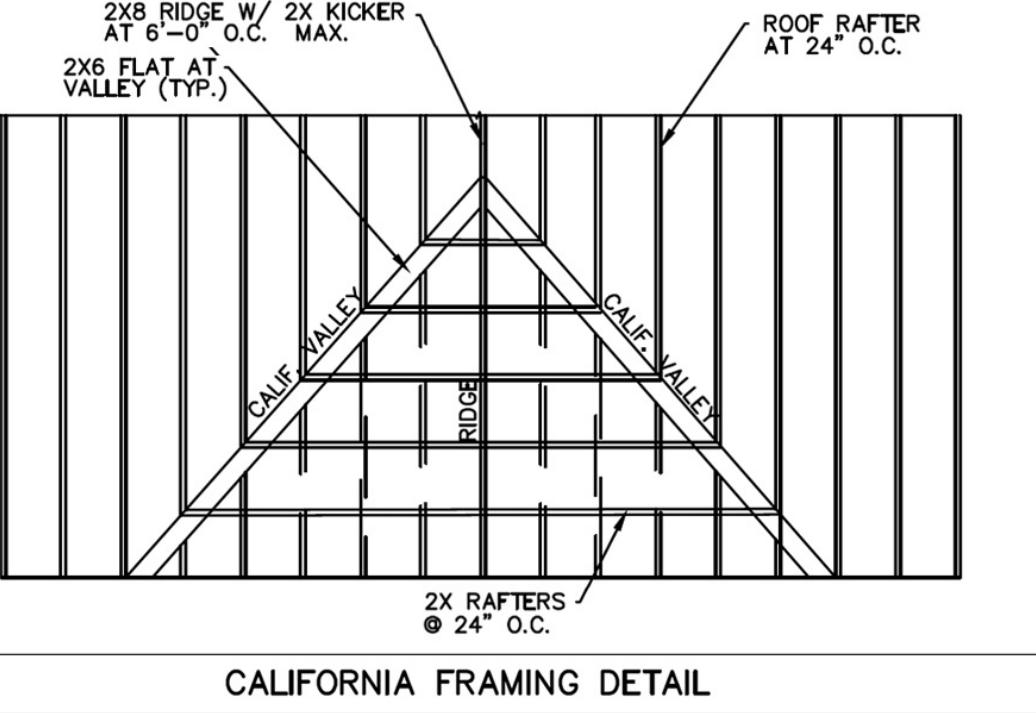
ANCHOR PLACEMENT & REQUIREMENTS



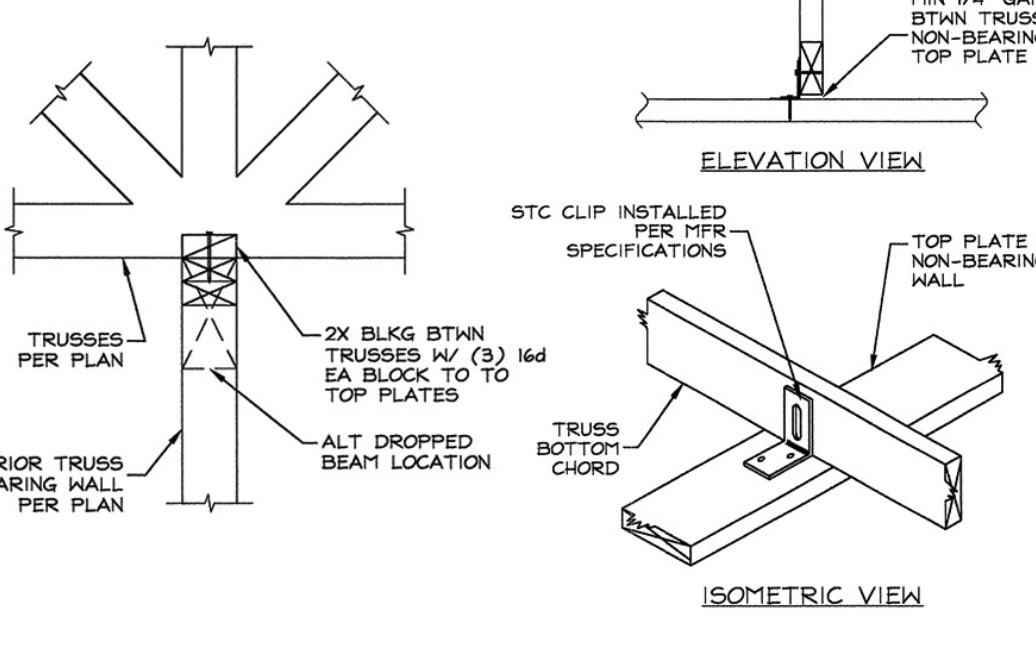
TYPICAL BEAM FRAMING



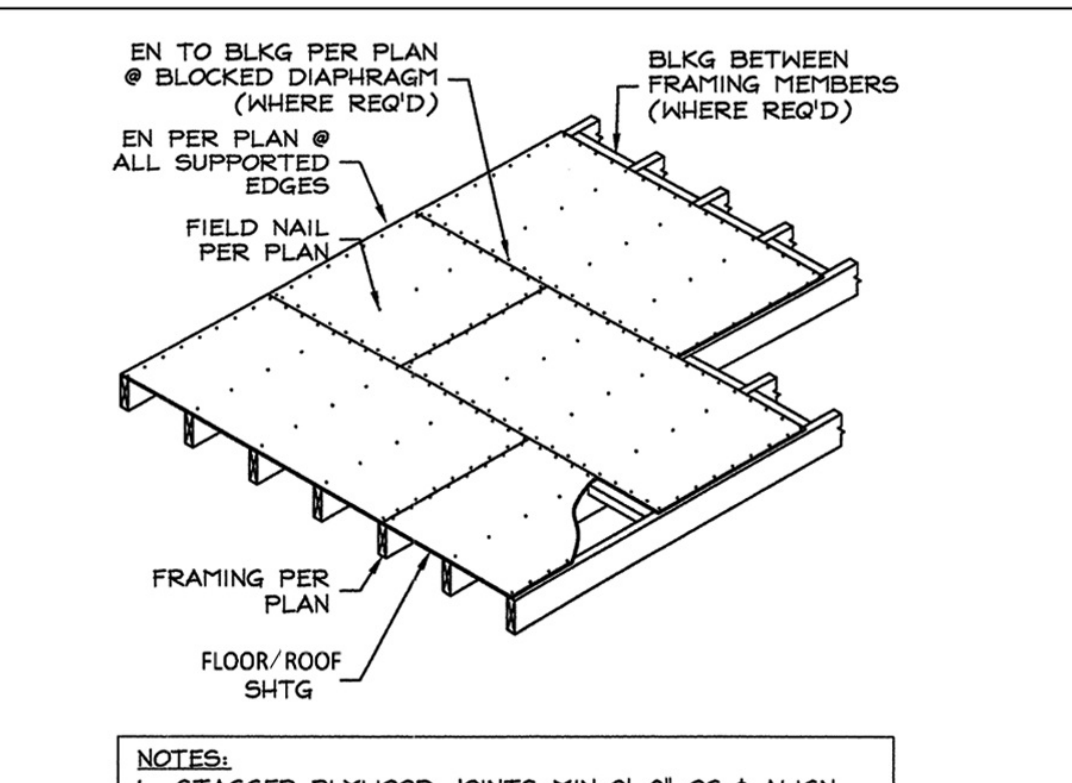
TYPICAL SPLICE TOP PLATE



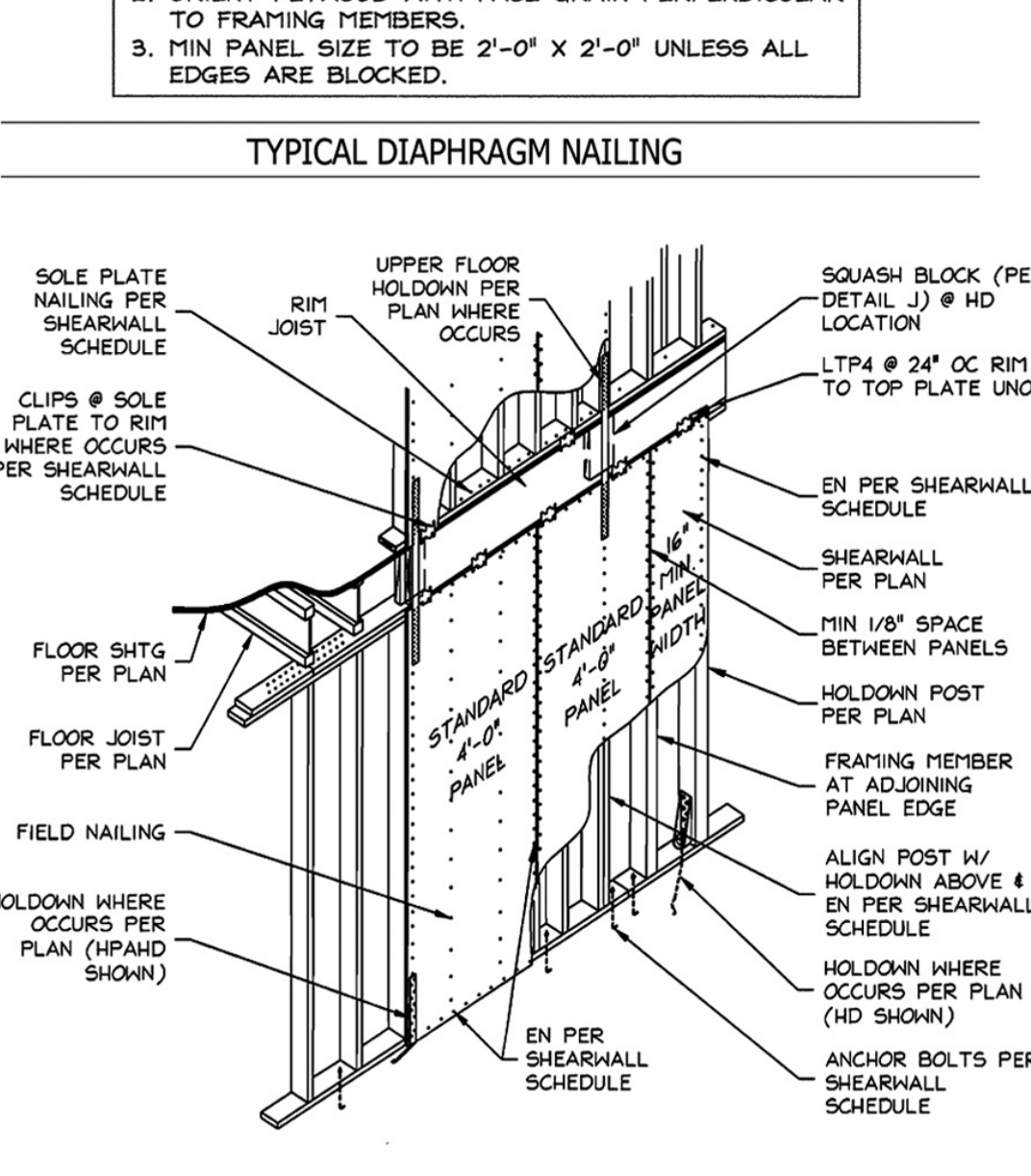
CALIFORNIA FRAMING DETAIL



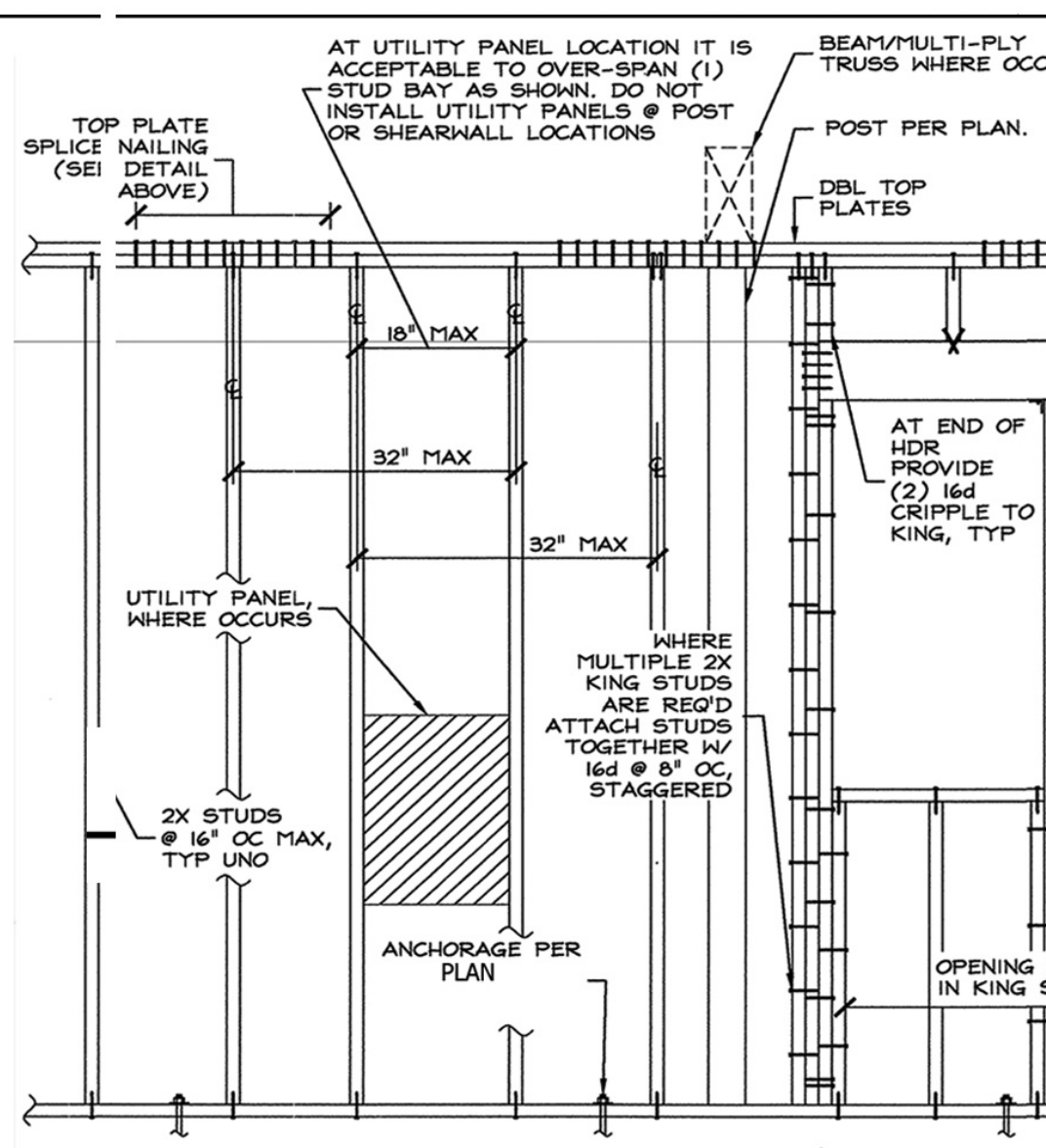
TRUSSES OR RAFTERS AT INTERIOR WALLS



TYPICAL DIAPHRAGM NAILING



TYPICAL SHEARWALL NAILING

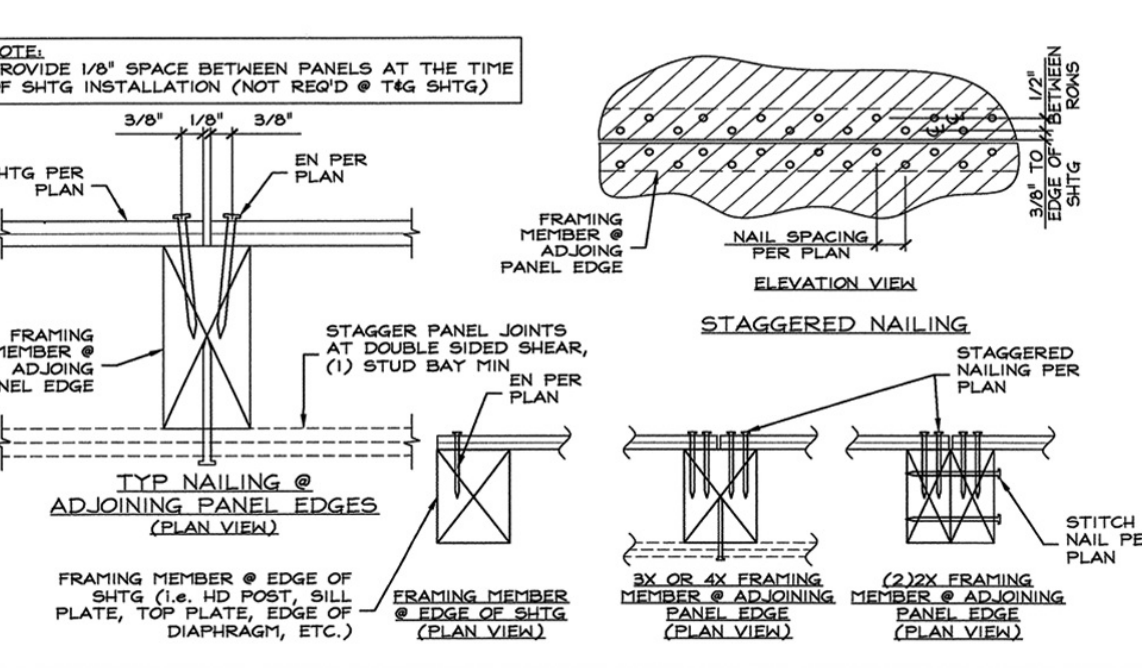


TYPICAL WALL FRAMING

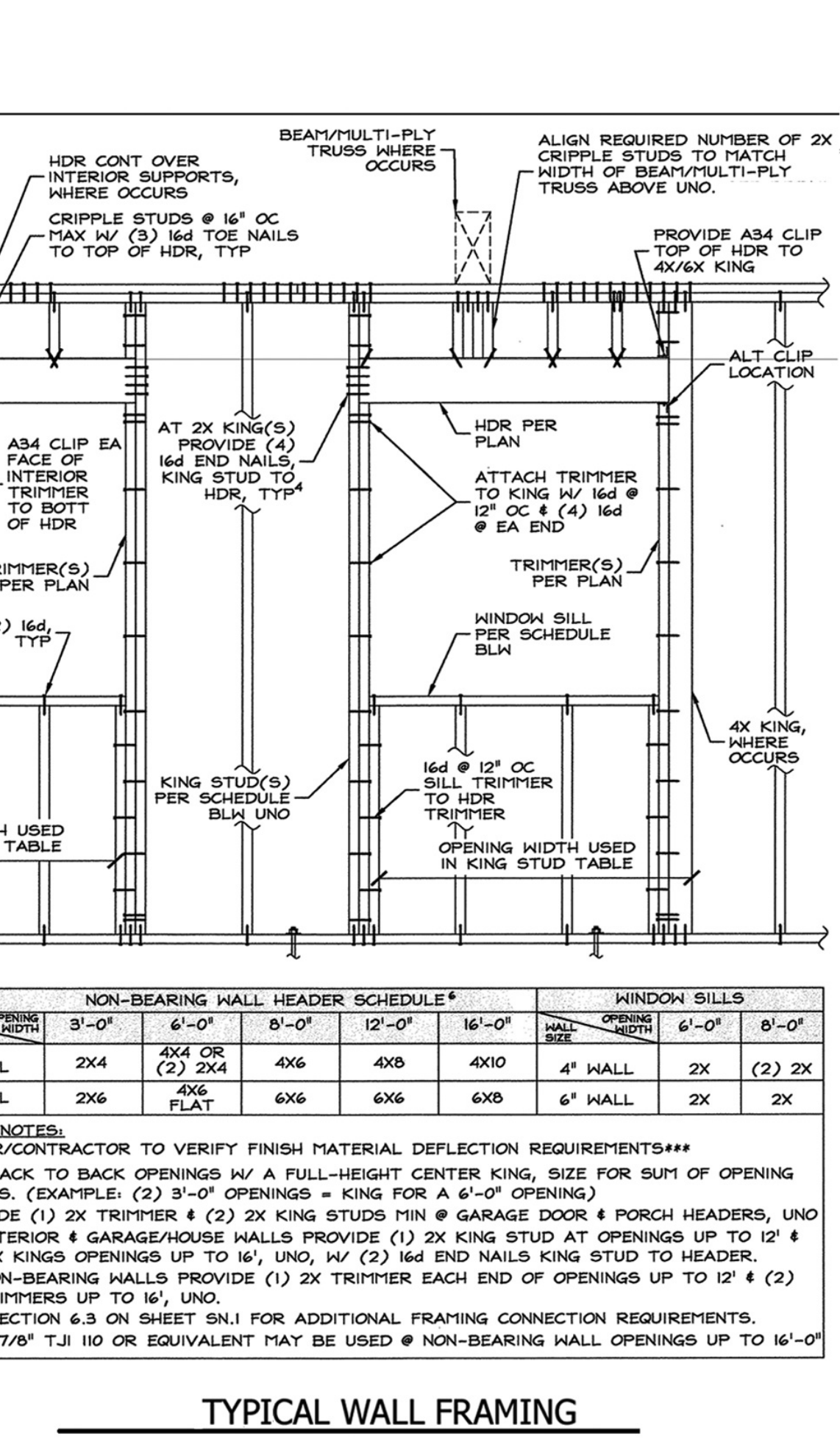
Table with columns for STANDARD KING STUDS AT EXTERIOR WALLS and NON-BEARING WALL HEADER SCHEDULES. Includes a note for REDUCED KING STUDS AT WALLS W/ L/240 DEFLECTION CRITERIA.

NAILING SCHEDULE

Table with columns: CONNECTION, NAILING. Lists nailing requirements for joist to sill, bridging, subfloor, sole plate, top plate, double studs, double top plates, rim joist, top plate intersections, continuous header, ceiling joists, rafters, 1x8 sheathing, and planks.



TYPICAL SHEATHING NAILING



TYPICAL WALL FRAMING

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HouseArte.com Kevincep0@gmail.com (916) 521-3263

ENGINEER

NEW ADDITION FOR: SASHA & ALONA GORER 80 LILY CT BRISBANE, CA 94005 APN: 005-550-040

Table with 3 columns: NO, DESCRIPTION, DATE. Includes a REVISIONS header.

DRAWN BY: KES DATE DRAWN: 1/25/2024 SCALE: 1/4"=1'-0" U.N.O. TYP.

CONCEPT CBC FASTENING SCHEDULE

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2022 CBC TABLE 2304.10.2 FASTENING SCHEDULE

NOTE: THIS FASTENING SCHEDULE TO BE USED UNLESS NOTED OTHERWISE ON PLAN AND ENGINEERING SHEET(S).

Table with 3 columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Includes sections for WOOD STRUCTURAL PANELS, COMBINATION SUBFLOOR UNDERLAYMENT TO FRAMING, PANEL SIDING TO FRAMING, and INTERIOR PANELING.

2022 CBC TABLE 2304.10.2 FASTENING SCHEDULE

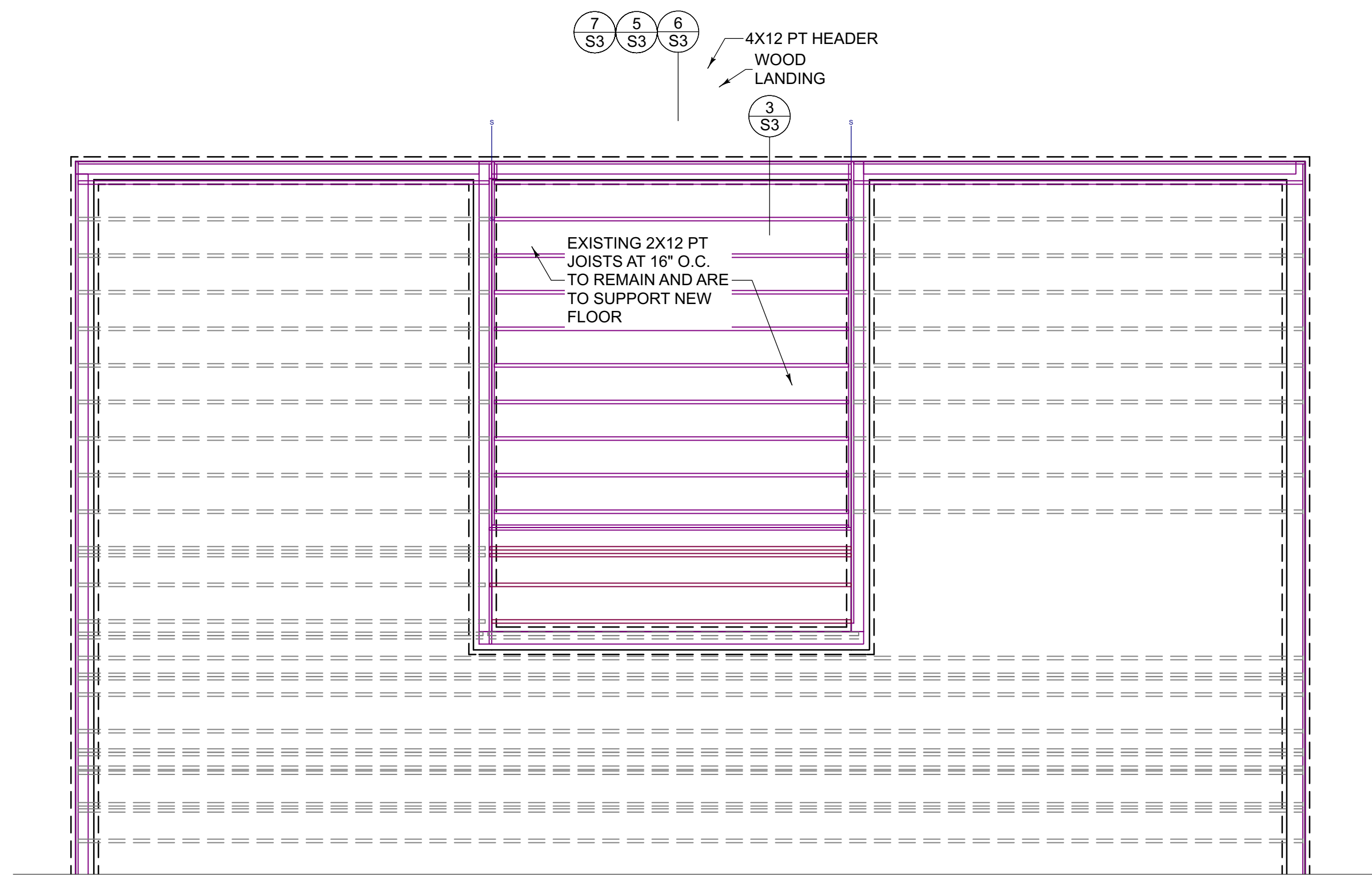
NOTE: THIS FASTENING SCHEDULE TO BE USED UNLESS NOTED OTHERWISE ON PLAN AND ENGINEERING SHEET(S).

Table with 3 columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Includes sections for WALL, FLOOR, and WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING.

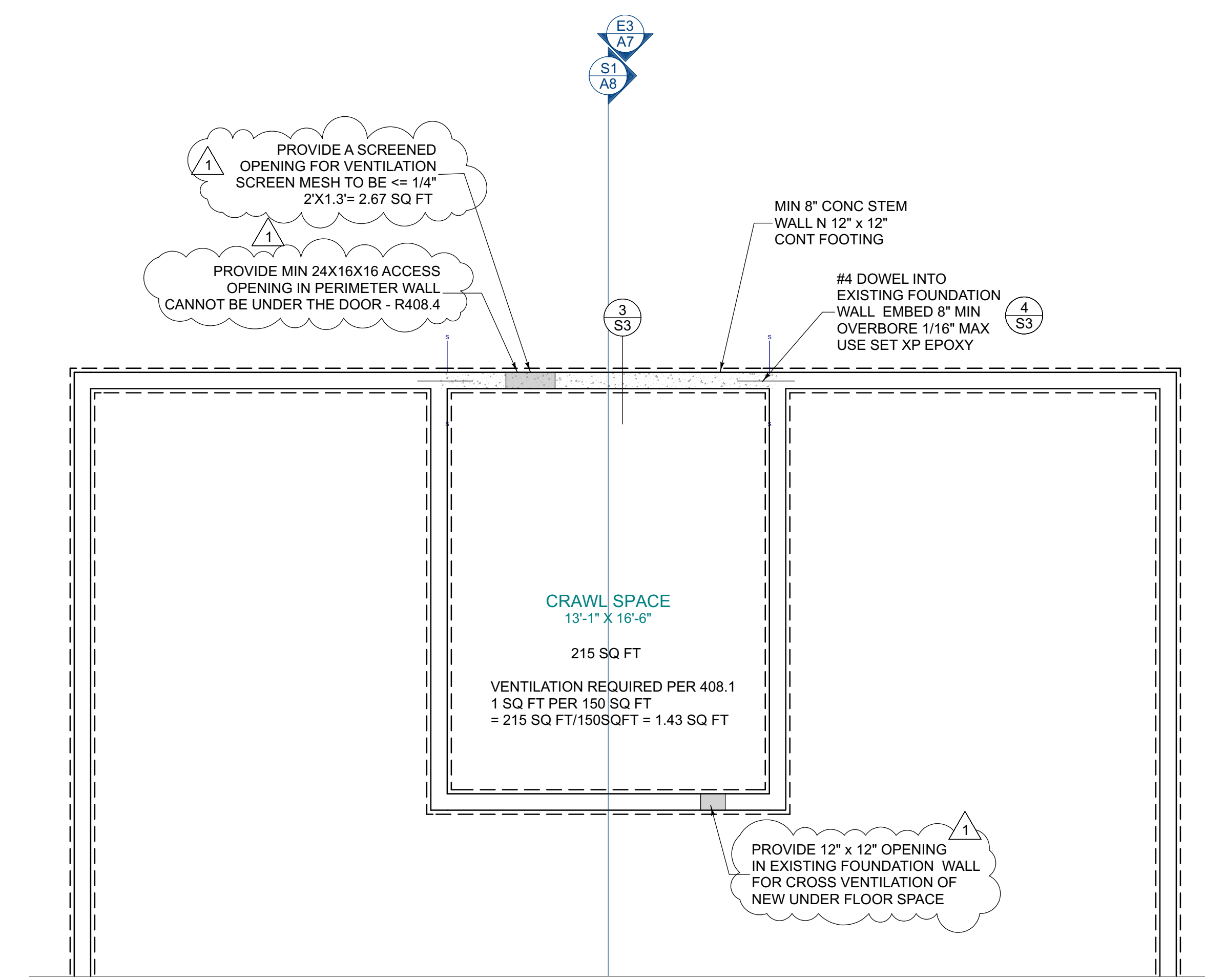
2022 CBC TABLE 2304.10.2 FASTENING SCHEDULE

NOTE: THIS FASTENING SCHEDULE TO BE USED UNLESS NOTED OTHERWISE ON PLAN AND ENGINEERING SHEET(S).

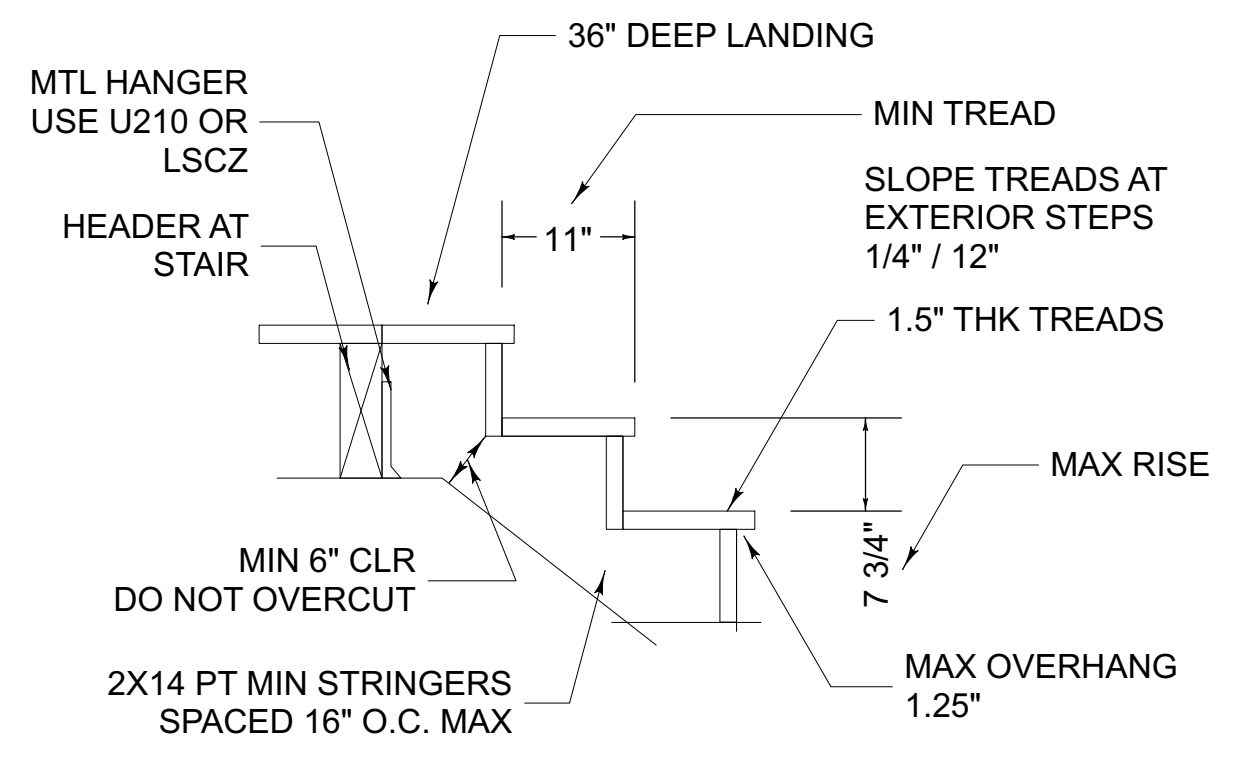
Table with 3 columns: DESCRIPTION OF BUILDING ELEMENTS, NUMBER AND TYPE OF FASTENER, SPACING AND LOCATION. Includes sections for ROOF, WALL, and WOOD STRUCTURAL PANELS (WSP), SUBFLOOR, ROOF AND INTERIOR WALL SHEATHING TO FRAMING AND PARTICLEBOARD WALL SHEATHING TO FRAMING.



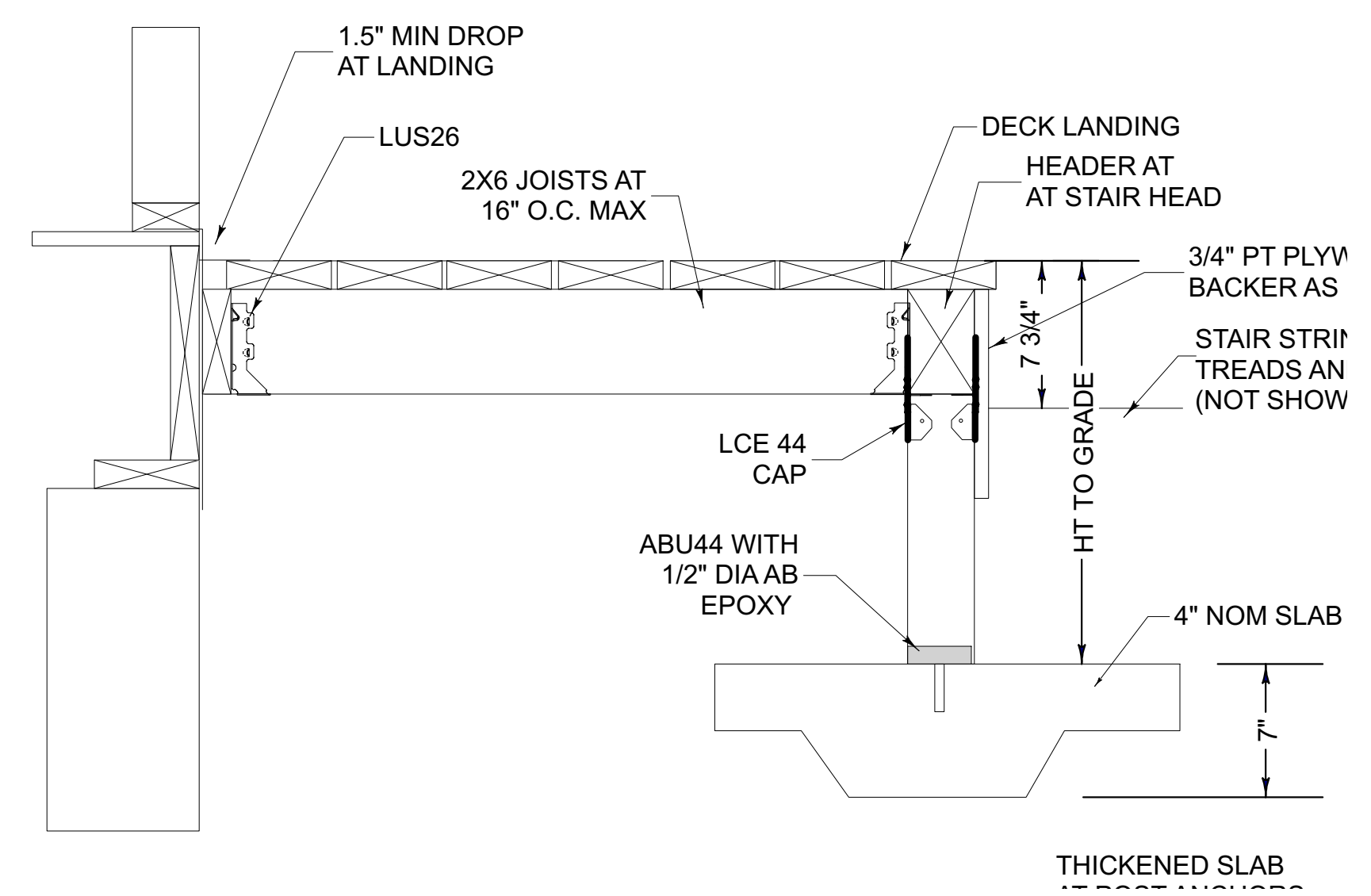
2 FLOOR FRAMING AT ADDITION
SCALE: 1/4"=1'-0"



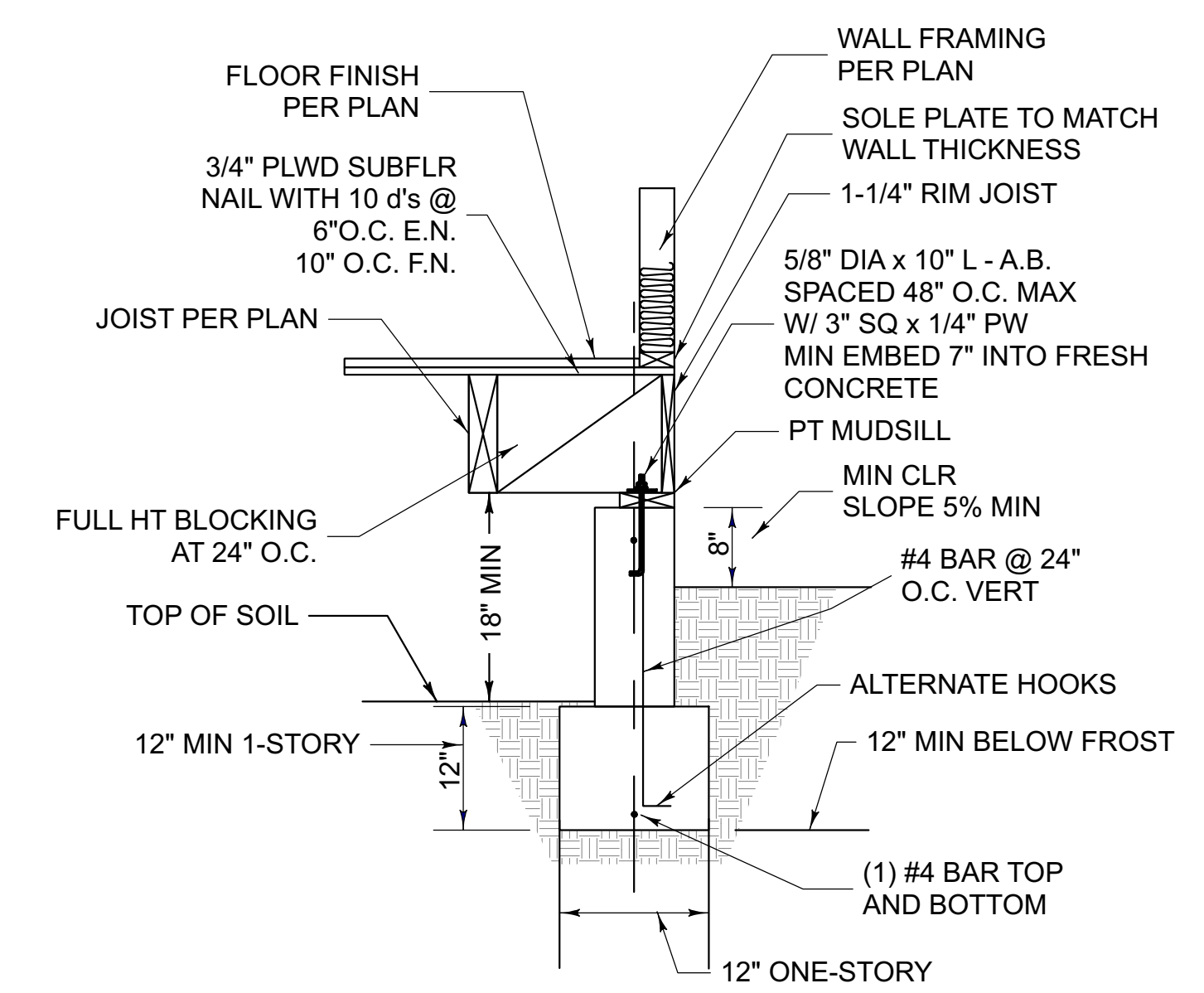
1 FOUNDATION PLAN
SCALE: 1/4"=1'-0"



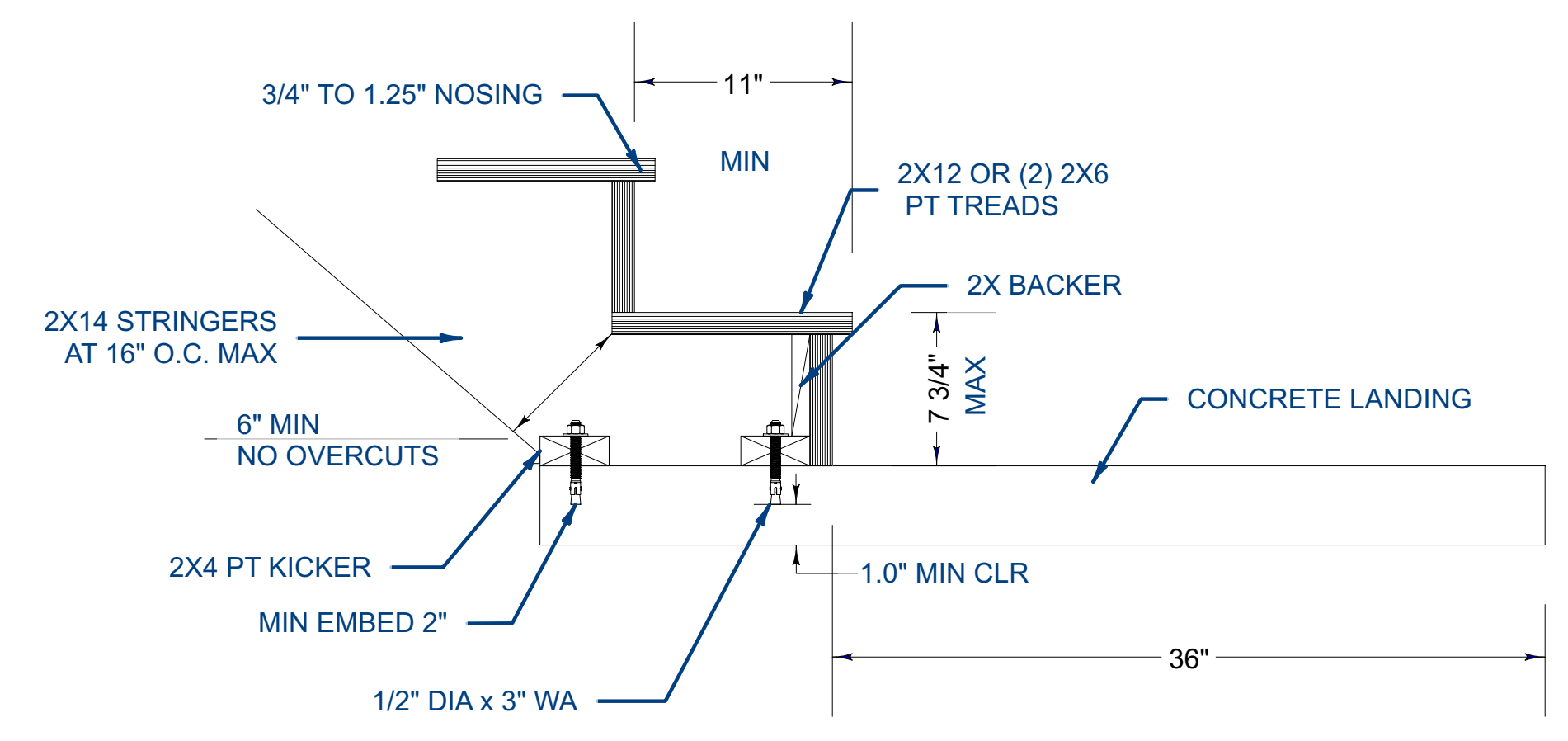
6 STRINGER AT LANDING
SCALE: 3/4"=1'-0"



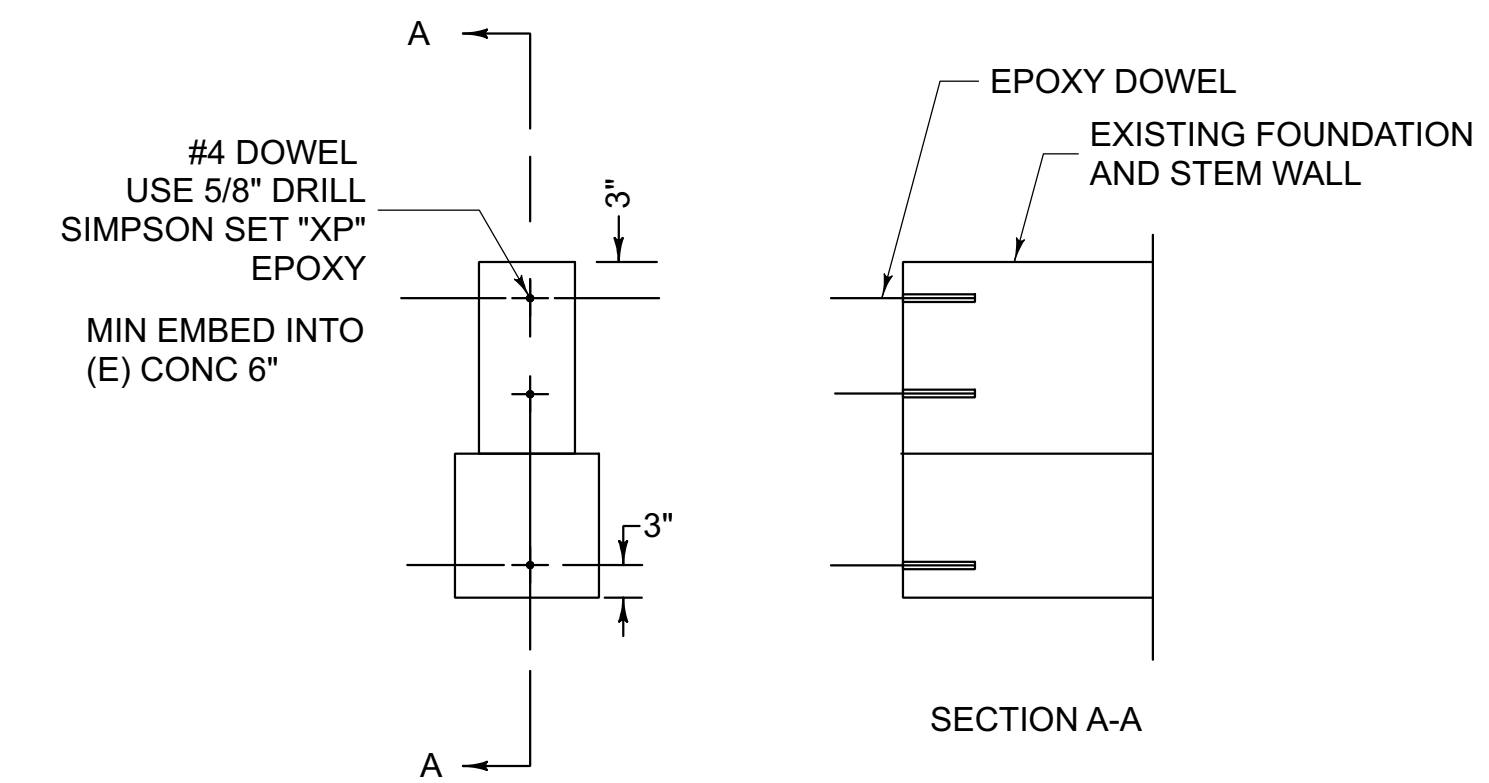
7 LANDING CONNECTION DETAIL
SCALE: 1.5"=1'-0"



3 FLOOR FRAMING AT ADDITION
SCALE: 3/4"=1'-0"



5 STRINGERS TO SLAB
SCALE: 1.5"=1'-0"



4 EPOXY DOWELS
SCALE: 3/4"=1'-0"

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NEW ADDITION FOR:

SASHA & ALONA GORER
80 LILY CT
BRISBANE, CA 94005
APN: 005-550-040

REVISIONS		
NO	DESCRIPTION	DATE

DRAWN BY: **KES**
DATE DRAWN: **1/25/2024**
SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
FOUNDATION PLAN

NEW ADDITION FOR:
SASHA & ALONA GORER
80 LILY CT
BRISBANE, CA 94005
APN: 005-550-040

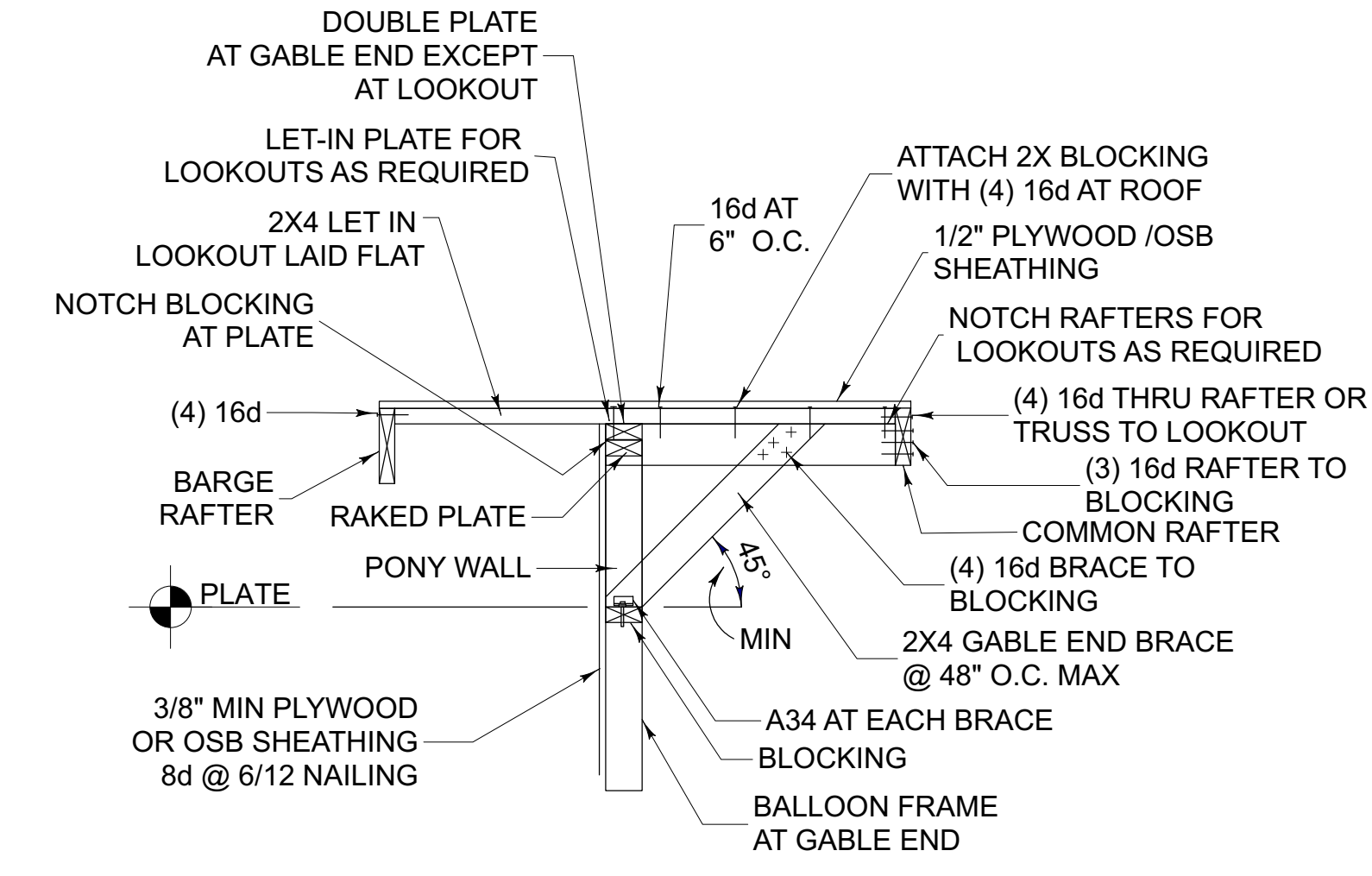
REVISIONS

NO	DESCRIPTION	DATE

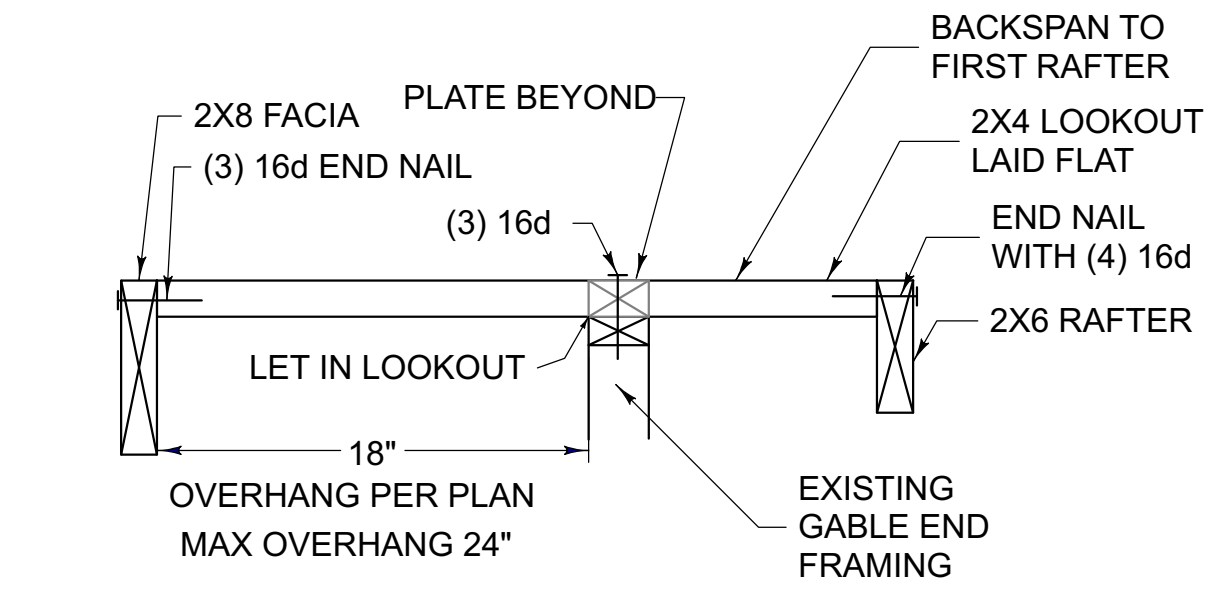
DRAWN BY: **KES**
DATE DRAWN: **1/25/2024**
SCALE: **1/4"=1'-0" U.N.O. TYP.**

CONCEPT
ROOF FRAMING PLAN

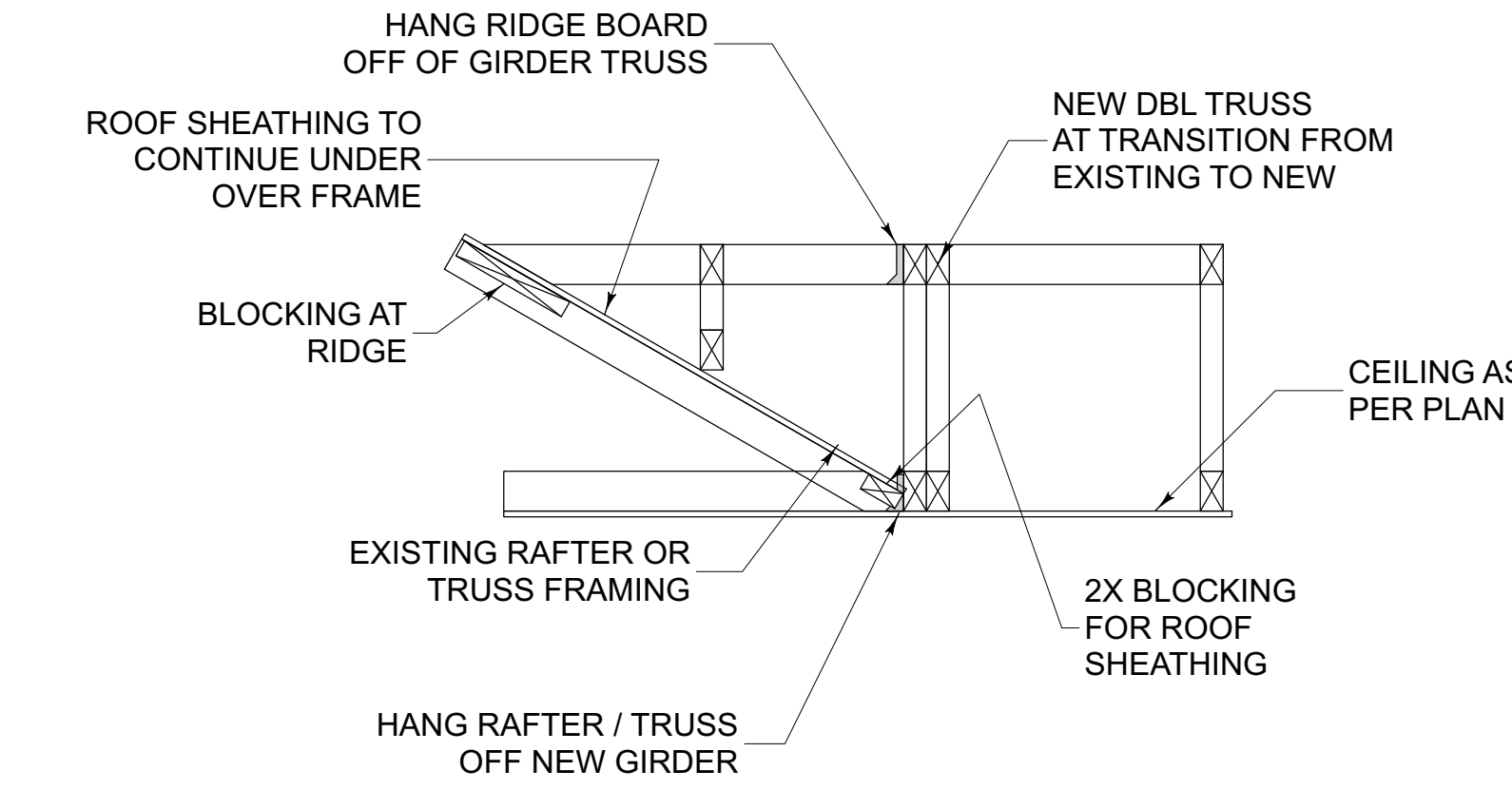
- S4 -



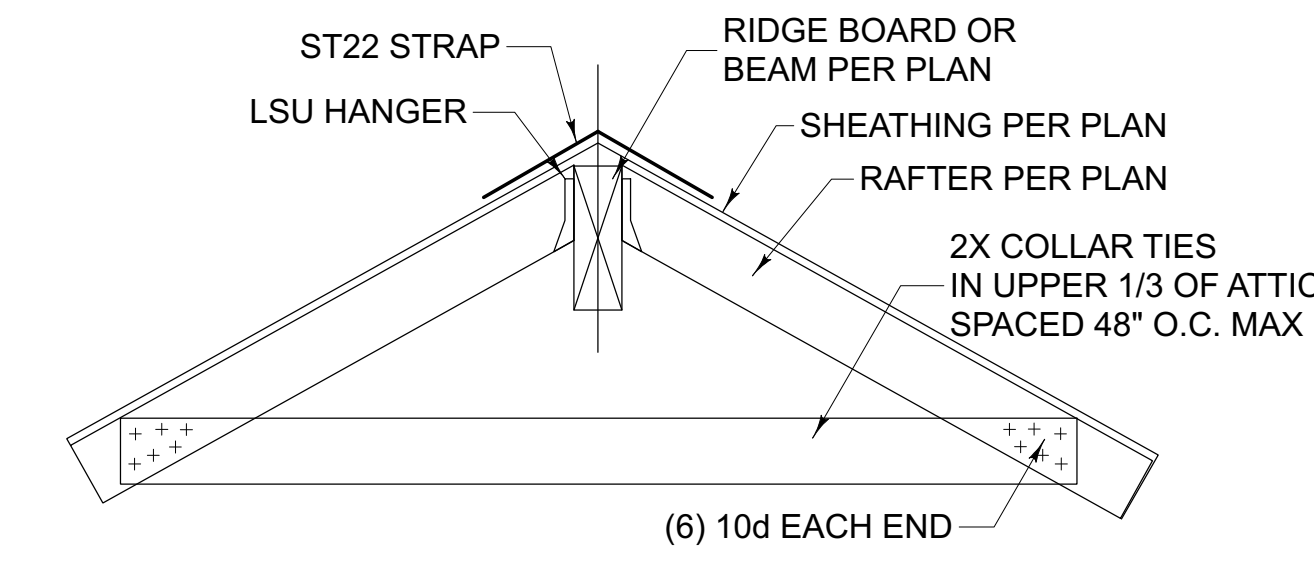
2 GABLE END FRAMING
SCALE: 3/4"=1'-0"



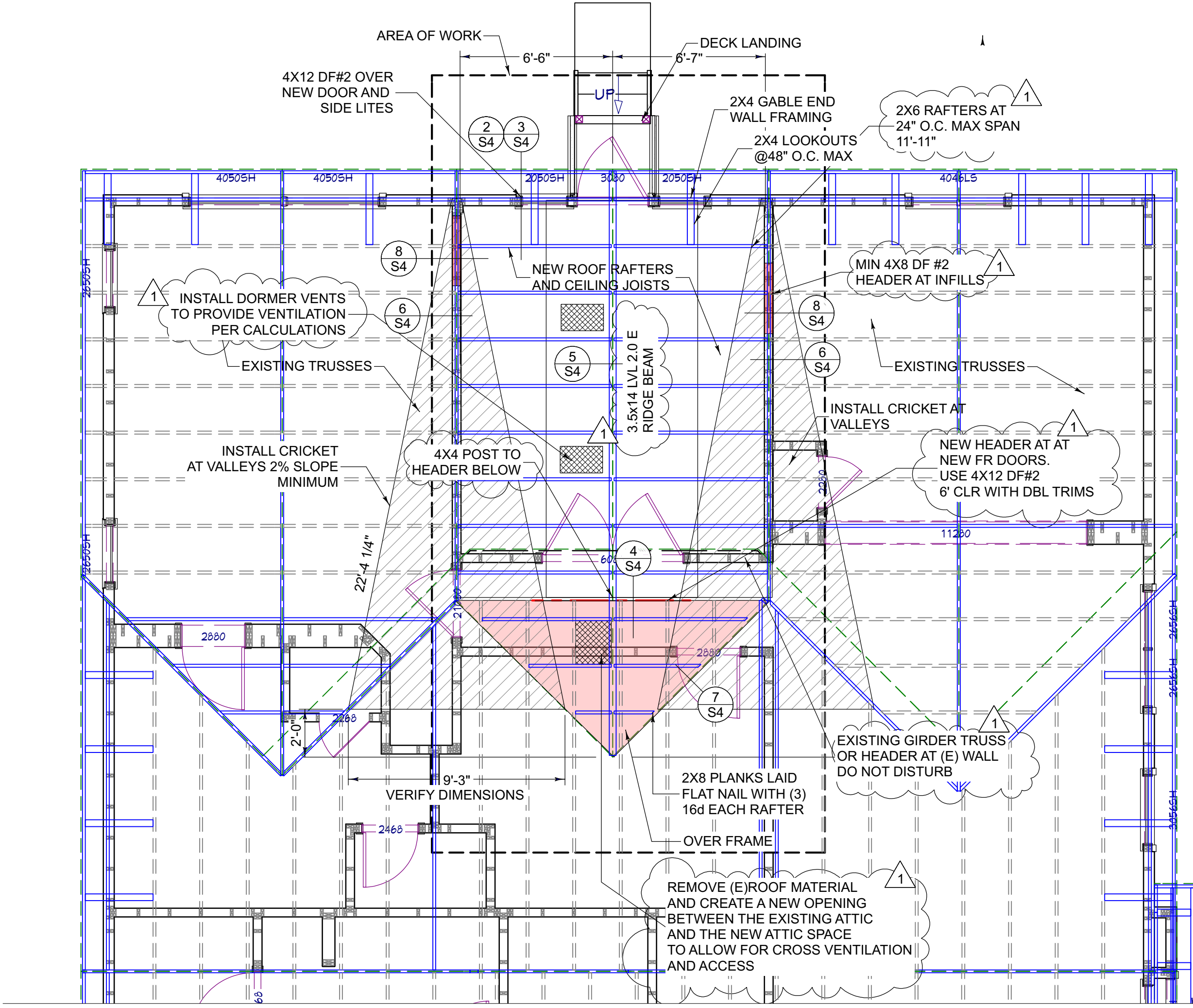
3 LOOKOUT DETAIL
SCALE: 3/4"=1'-0"



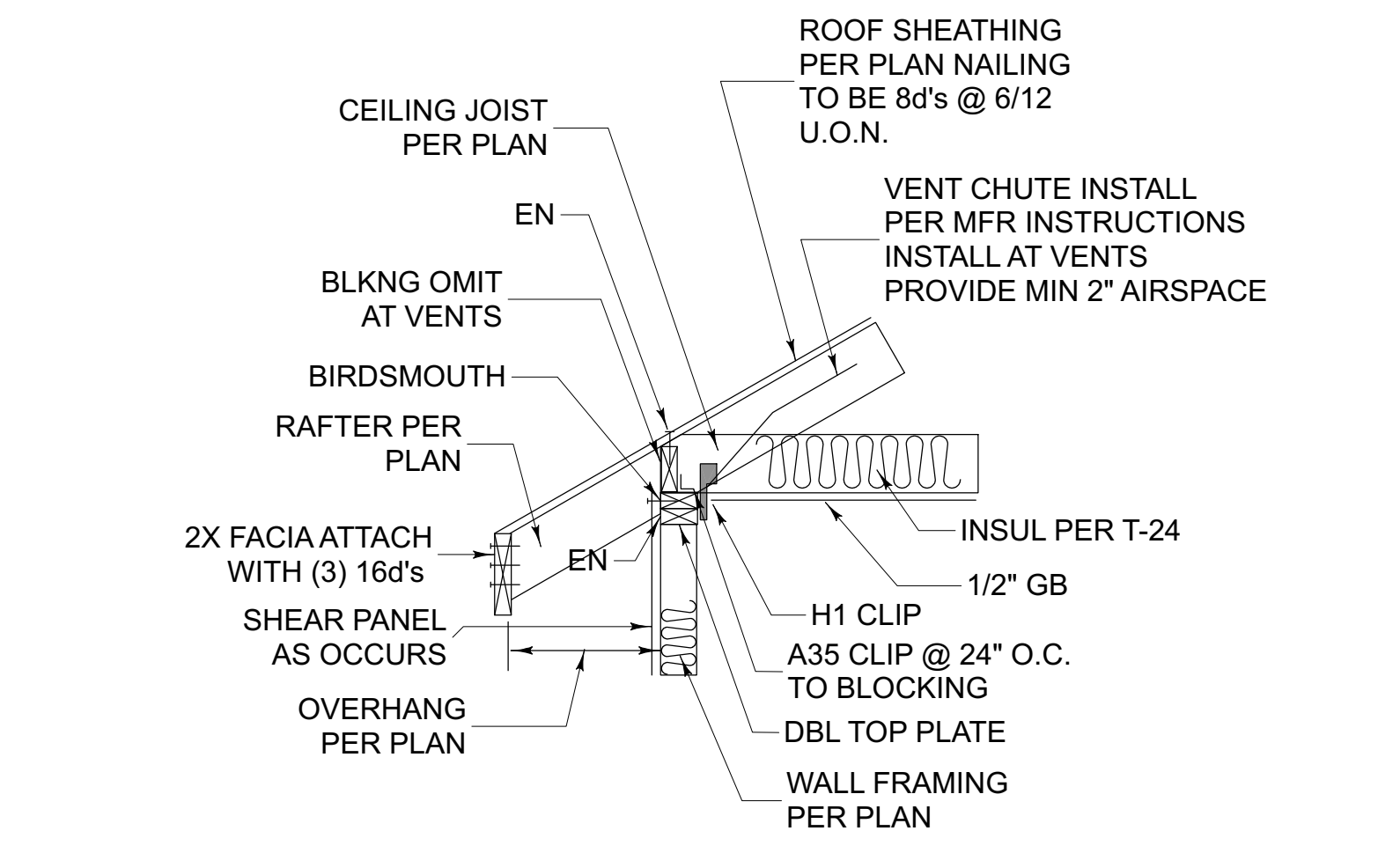
4 OVER FRAME DETAIL
SCALE: 3/4"=1'-0"



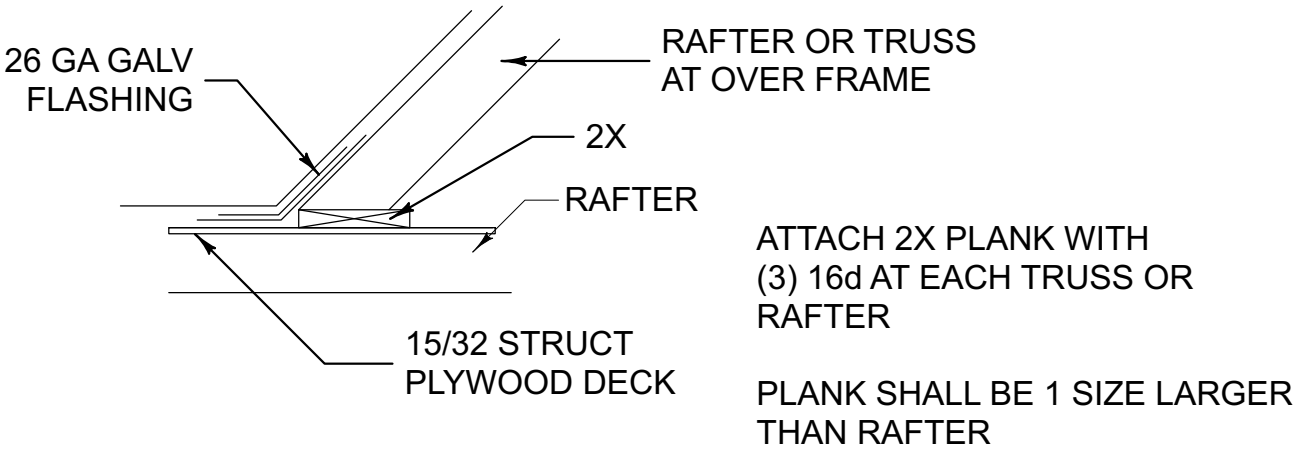
5 RIDGE RAFTER - COLLAR TIE DETAIL
SCALE: 3/4"=1'-0"



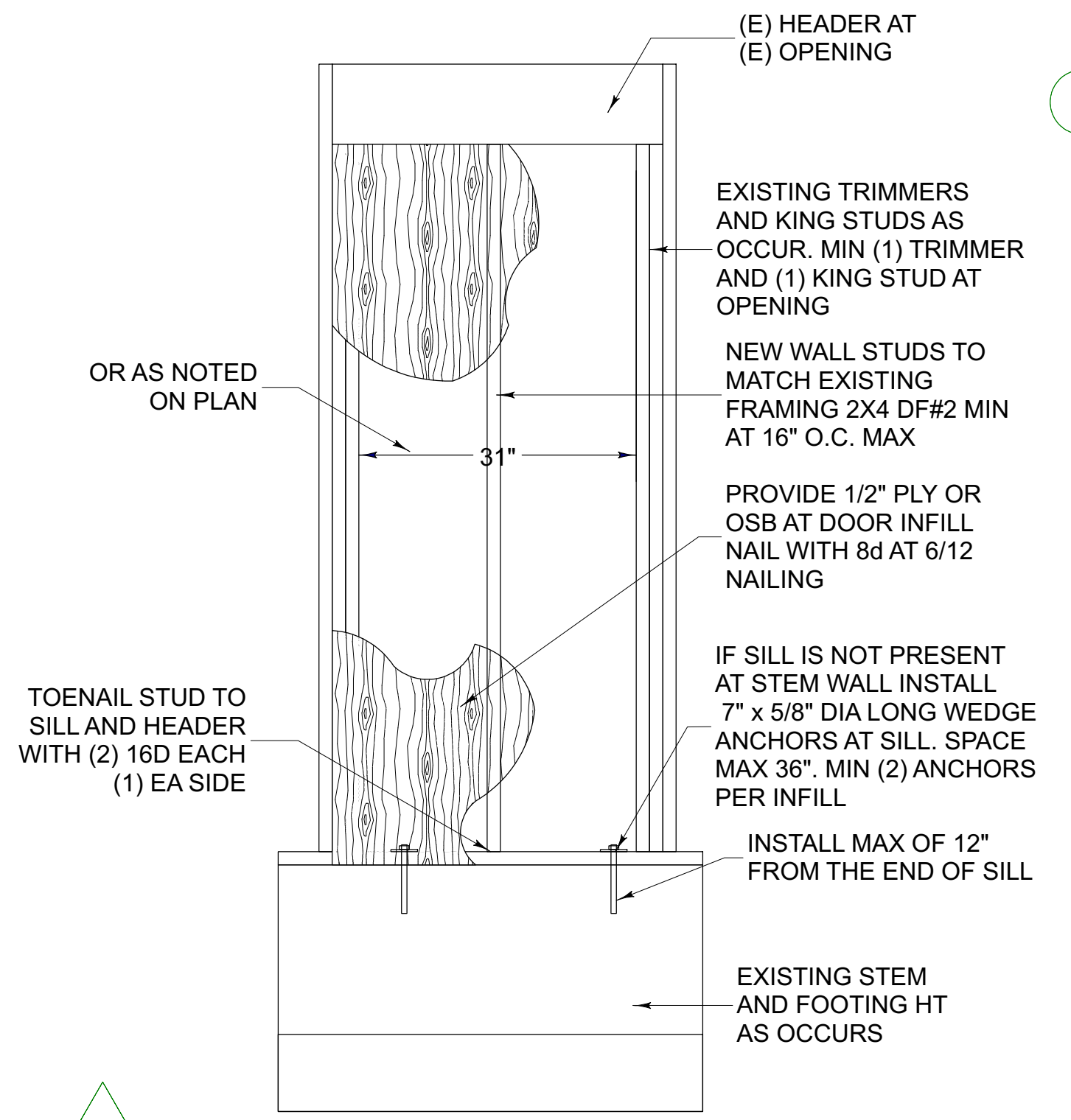
1 ROOF FRAMING AT ADDITION
SCALE: 1/4"=1'-0"



6 EAVE DETAIL
SCALE: 3/4"=1'-0"



7 OVER FRAME @ PLANK DETAIL
SCALE: 3/4"=1'-0"



8 INFILL AT OPENING
SCALE: 3/4"=1'-0"

RAFTER SPAN TABLE- (2022 CRC PART 2.5)						
FROM TABLE - R802..4.1(2)						
SPECIES: DOUG FIR LARCH						
ROOF LIVE LOAD: 20 PSF			DEAD LOAD: 10 PSF			
CEILING ATTACHED TO RAFTERS (L/240)						
SPACING	GRADE	2x4	2x6	2x8	2x10	2x12
		ft-in	ft-in	ft-in	ft-in	ft-in
12	SS	10-5	16-4	20-7	>26	>26
	DF #1	10-0	15-9	20-10	>26	>26
	DF #2	9-10	15-6	20-5	26	>26
16	SS	9-6	14-11	19-7	25-0	>26
	DF #1	9-1	14-4	18-11	23-9	>26
	DF #2	8-11	14-1	18-5	22-6	26
19.2	SS	8-11	14-0	18-5	23-7	>26
	DF #1	8-7	13-6	17-9	21-8	25-2
	DF #2	8-5	13-3	16-10	20-7	23-10
24	SS	8-3	13-0	17-2	21-10	>26
	DF #1	8-0	12-6	15-10	19-5	22-6
	DF #2	7-10	11-11	15-1	18-5	21-4

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Kevincep0@gmail.com (916) 521-3263

ENGINEER

NEW ADDITION FOR: SASHA & ALONA GORER 80 LILY CT BRISBANE, CA 94005 APN: 005-550-040

Table with 3 columns: NO, DESCRIPTION, DATE. Includes a row for REVISIONS.

DRAWN BY: KES DATE DRAWN: 1/25/2024

SCALE: 1/4"=1'-0" U.N.O. TYP.

CONCEPT TITLE 24 ENERGY REPORT SHEET 1 OF 3

- T1 - 14 OF 16

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

GENERAL INFORMATION table with columns for Project Name, Run Title, Project Location, City, Zip code, Climate Zone, Building Type, Project Scope, Addition Cond. Floor Area (ft²), Existing Cond. Floor Area (ft²), Total Cond. Floor Area (ft²), ADU Bedroom Count, Fuel Type.

COMPLIANCE RESULTS table with columns for Building Complies with Computer Performance, Building does not require field testing or HERS verification, This building incorporates one or more Special Features shown below.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

ENERGY USE SUMMARY table with columns for Energy Use, Standard Design Source Energy (EDR1), Standard Design TDV Energy (EDR2), Proposed Design Source Energy (EDR1), Proposed Design TDV Energy (EDR2), Compliance Margin (EDR1), Compliance Margin (EDR2). Rows include Space Heating, Space Cooling, IAQ Ventilation, Water Heating, Self Utilization/Flexibility Credit, Efficiency Compliance Total, Photovoltaics, Battery, Flexibility, Indoor Lighting, Appl. & Cooking, Plug Loads, Outdoor Lighting, TOTAL COMPLIANCE.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

ENERGY USE INTENSITY table with columns for Standard Design (kBtu/ft² - yr), Proposed Design (kBtu/ft² - yr), Compliance Margin (kBtu/ft² - yr), Margin Percentage. Rows include Gross EUt, Net EUt.

REQUIRED SPECIAL FEATURES The following are features that must be installed as condition for meeting the modeled energy performance for this computer analysis. * New ductwork added is less than 25 ft. in length

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 - FEATURES INFORMATION table with columns for Project Name, Conditioned Floor Area (ft²), Number of Dwelling Units, Number of Bedrooms, Number of Zones, Number of Ventilation Cooling Systems, Number of Water Heating Systems.

ZONE INFORMATION table with columns for Zone Name, Zone Type, HVAC System Name, Zone Floor Area (ft²), Avg. Ceiling Height, Water Heating System 1, Status.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

OPAQUE SURFACES table with columns for Name, Zone, Construction, Azimuth, Orientation, Gross Area (ft²), Window and Door Area (ft²), Tilt (deg), Wall Exceptions, Status, Verified Existing Condition.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

ATTIC table with columns for Name, Construction, Type, Roof Rise (x in 12), Roof Reflectance, Roof Emittance, Radiant Barrier, Cool Roof, Status, Verified Existing Condition.

FENESTRATION / GLAZING table with columns for Name, Type, Surface, Orientation, Azimuth, Width (ft), Height (ft), Mult., Area (ft²), U-factor, U-factor Source, SHGC, SHGC Source, Exterior Shading, Status, Verified Existing Condition.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

FENESTRATION / GLAZING table with columns for Name, Type, Surface, Orientation, Azimuth, Width (ft), Height (ft), Mult., Area (ft²), U-factor, U-factor Source, SHGC, SHGC Source, Exterior Shading, Status, Verified Existing Condition.

OPAQUE DOORS table with columns for Name, Side of Building, Area (ft²), U-factor, Status, Verified Existing Condition.

OPAQUE SURFACE CONSTRUCTIONS table with columns for Construction Name, Surface Type, Construction Type, Framing, Total Cavity R-value, Interior / Exterior Continuous R-value, U-factor, Assembly Layers.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

OPAQUE SURFACE CONSTRUCTIONS table with columns for Construction Name, Surface Type, Construction Type, Framing, Total Cavity R-value, Interior / Exterior Continuous R-value, U-factor, Assembly Layers.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

BUILDING ENVELOPE - HERS VERIFICATION table with columns for Quality Insulation Installation (QII), High R-value Spray Foam Insulation, Building Envelope Air Leakage, CFM50.

WATER HEATING SYSTEMS table with columns for Name, System Type, Distribution Type, Water Heater Name, Number of Units, Solar Heating System, Compact Distribution, HERS Verification, Water Heater Name (R), Status, Verified Existing Condition, Existing Water Heating System.

WATER HEATERS table with columns for Name, Heating Element Type, Tank Type, # of Units, Tank Vol. (gal), Heating Efficiency, Rated Input Type, Input Rating or Pilot, Tank Insulation R-value (In/Ex), Standby Loss or Recovery Eff, Lit Hr. Rating or Flow Rate, Tank Location, Status, Verified Existing Condition.

WATER HEATING - HERS VERIFICATION table with columns for Name, Pipe Insulation, Parallel Piping, Compact Distribution, Compact Distribution Type, Recirculation Control, Shower Drain Water Heat Recovery.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 Input File Name: Lily Court Addition (80).rbd22x

SPACE CONDITIONING SYSTEMS table with columns for Name, System Type, Heating Unit Name, Heating Equipment Count, Cooling Unit Name, Cooling Equipment Count, Fan Name, Distribution Name, Required Thermostat Type, Status, Verified Existing Condition, Existing HVAC System.

HVAC - HEATING UNIT TYPES table with columns for Name, System Type, Number of Units, Heating Efficiency, Heating Unit Brand.

HVAC - COOLING UNIT TYPES table with columns for Name, System Type, Number of Units, Efficiency Metric, Efficiency EER/SEER/CEER, Efficiency SEER/SEER2, Zonally Controlled, Multi-speed Compressor, HERS Verification.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: Report Version: 2022.0.000 Schema Version: rev 20220901 HERS Provider: Report Generated: 2023-11-07 08:27:40

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HouseArte.com (916) 521-3263 Kevincep0@gmail.com

ENGINEER

NEW ADDITION FOR: SASHA & ALONA GORER 80 LILY CT BRISBANE, CA 94005 APN: 005-550-040

Table with 3 columns: NO, DESCRIPTION, DATE. Includes REVISIONS section.

DRAWN BY: KES DATE DRAWN: 1/25/2024 SCALE: 1/4"=1'-0" U.N.O. TYP. CONCEPT TITLE 24 ENERGY REPORT SHEET 2 OF 3

- T2 - 15 OF 16

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 (Page 10 of 11) Calculation Description: Title 24 Analysis Input File Name: Lily Court Addition (80).rbd22x

Table with 16 columns: 01-16. Headers: Name, Type, Design Type, Duct Ins. R-value, Duct Location, Surface Area, Bypass, Duct Leakage, HERS Verification, Status, Verified Existing Condition, Existing Distribution System, New Ducts 25 ft.

Table with 4 columns: 01-04. Headers: Name, Type, Fan Power (Watts/CFM), Name. Row: HVAC Fan 1, HVAC Fan, 0.58, HVAC Fan 1-hers-fan.

Table with 3 columns: 01-03. Headers: Name, Verified Fan Watt Draw, Required Fan Efficacy (Watts/CFM). Row: HVAC Fan 1-hers-fan, Not Required, 0.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: 2022-08-27-20 HERS Provider: Report Version: 2022.0.000 Schema Version: rev 20220901

RESIDENTIAL MEASURES SUMMARY RMS-1 Project Name: Lily Court Addition Building Type: Single Family Existing Addition/Alteration Date: 11/7/2023 Project Address: 80 Lily Court Brisbane California Energy Climate Zone: CA Climate Zone 03 Total Cond. Floor Area: 2,352 Addition: 232 # of Units: 1

INSULATION Construction Type, Cavity, Area (ft²), Special Features, Status. Rows for Wall, Floor, Demising.

FENESTRATION Orientation, Area(ft²), U-Fac, SHGC, Overhang, Sidelins, Exterior Shades, Status. Total Area: 308 Glazing Percentage: 13.1% New/Altered Average U-Factor: 0.30

HVAC SYSTEMS Qty, Heating, Min. Eff, Cooling, Min. Eff, Thermostat, Status. Row: HVAC Fan 1.

HVAC DISTRIBUTION Location, Heating, Cooling, Duct Location, Duct R-Value, Status. Row: HVAC System.

WATER HEATING Qty, Type, Gallons, Min. Eff, Distribution, Status. Row: Small Instantaneous Gas.

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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD CF1R-PRF-01E Project Name: Lily Court Addition Calculation Date/Time: 2023-11-07T08:26:55-08:00 (Page 11 of 11) Calculation Description: Title 24 Analysis Input File Name: Lily Court Addition (80).rbd22x

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT. I, I certify that this Certificate of Compliance documentation is accurate and complete. Documentation Author Name: Timothy Carstairs, CEA, HERS, GPR. Signature Date: 11/7/2023. CEAH HERS Certification Identification (if applicable): R19-06-30151. Phone: 805-504-9048.

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 energy features and performance specifications identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 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 the applicable compliance document, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application. Responsible Designer Name: Kevin Szczepankowski. Date Signed: 11-16-23. Address: 56 Highline Rd. License: (916) 521-3263. City/State/Zip: Lake Ozark, MO 65049.

Registration Number: CA Building Energy Efficiency Standards - 2022 Residential Compliance Registration Date/Time: 2023-11-07 08:27:40 HERS Provider: Report Version: 2022.0.000 Schema Version: rev 20220901

2022 Single-Family Residential Mandatory Requirements Summary. NOTE: Single-family residential buildings subject to the Energy Codes must comply with all applicable mandatory requirements, regardless of the compliance approach used. Review the respective section for more information.

- Building Envelope: § 110.8(a)(1) Air Leakage. Manufactured fenestration, exterior doors, and exterior pet doors must limit air leakage to 0.3 CFM per square foot or less when tested per NFRC-400, ASTM E283, or AAMA/WDMA/CSA 1011.5.2/A440-2011. § 110.8(a)(5) Labeling. Fenestration products and exterior doors must have a label meeting the requirements of § 110-111(a). § 110.8(b) Field-fabricated exterior doors and fenestration products must use U-factors and solar heat gain coefficient (SHGC) values from Tables 110.6-A, 110.6-B, or JA4.5 for exterior doors. They must be qualified and/or weather-stopped. § 110.7 Air Leakage. All joints, penetrations, and other openings in the building envelope that are potential sources of air leakage must be caulked, gasketed, or weather-stopped. § 110.8(a) Insulation Certification by Manufacturers. Insulation must be certified by the Department of Consumer Affairs, Bureau of Household Goods and Services (BHGS). § 110.8(g) Insulation Requirements for Heated Slab Floors. Heated slab floors must be insulated per the requirements of § 110.8(g). § 110.8(i) Roofing Products Solar Reflectance and Thermal Emittance. The thermal emittance and aged solar reflectance values of the roofing material must meet the requirements of § 110.8(i) and be labeled per §10-113 when the installation of a cool roof is specified on the CF 1R. § 110.8(j) Radiant Barrier. When required, radiant barriers must have an emittance of 0.05 or less and be certified to the Department of Consumer Affairs. § 110.8(k) Roof Deck, Ceiling and Rafter Roof Insulation. Roof decks in newly constructed attics in climate zones 4 and 5-16 area-weighted average U-factor not exceeding 0.14. Ceiling and rafter roofs minimum R-22 insulation in wood-frame ceiling or area-weighted average U-factor must not exceed 0.043. Rafter roof alterations minimum R-19 or area-weighted average U-factor of 0.054 or less. Attic access doors must have permanently attached insulation using adhesive or mechanical fasteners. The attic access must be gasketed to prevent air leakage. Insulation must be installed in direct contact with a roof or ceiling which is sealed to limit infiltration and exfiltration, as specified in § 110.7, including but not limited to placing insulation either above or below the roof deck or on top of a drywall ceiling. § 150.0(b) Loose-fill Insulation. Loose fill insulation must meet the manufacturer's required density for the labeled R-value. § 150.0(c) Wall Insulation. Minimum R-13 insulation in 2x4 inch wood framing wall or a U-factor of 0.102 or less, or R-20 in 2x6 inch wood framing or have a U-factor of 0.071 or less. Opaque non-framed assemblies must have an overall assembly U-factor not exceeding 0.102. Masonry walls must meet Tables 150.1-A or B. § 150.0(d) Raised-floor Insulation. Minimum R-19 insulation in raised wood framed floor or 0.037 maximum U-factor. § 150.0(f) Slab Edge Insulation. Slab edge insulation must meet all of the following: have a water absorption rate, for the insulation material alone without facings, no greater than 0.2 percent; have a water vapor permeance no greater than 2.0 perm per inch; be protected from physical damage and UV light degradation; and, when installed as part of a heated slab floor, meet the requirements of § 110.8(g). § 150.0(g)(1) Vapor Retarder. In climate zones 1 through 16, the earth floor or unvented crawl space must be covered with a Class I or Class II vapor retarder. This requirement also applies to controlled ventilation crawl spaces for buildings complying with the exception to § 150.0(d). § 150.0(g)(2) Vapor Retarder. In climate zones 14 and 16, a Class I or Class II vapor retarder must be installed on the conditioned space side of all insulation in all exterior walls, vented attics, and unvented attics with air-permeable insulation. § 150.0(i) Fenestration Products. Fenestration, including skylights, separating conditioned space from unconditioned space or outdoors must have a maximum U-factor of 0.45, or area-weighted average U-factor of all fenestration must not exceed 0.45. Fireplaces, Decorative Gas Appliances, and Gas Logs: § 110.5(a) Pilot Lights. Continuously burning pilot lights are not allowed for indoor and outdoor fireplaces. § 150.0(e)(1) Closable Doors. Masonry or factory-built fireplaces must have a closable metal or glass door covering the entire opening of the firebox. § 150.0(e)(2) Combustion Intake. Masonry or factory-built fireplaces must have a combustion outside air intake, which is at least six square inches in area and is equipped with a readily accessible, operable, and light-tight damper or combustion-air control device. § 150.0(e)(3) Flue Damper. Masonry or factory-built fireplaces must have a flue damper with a readily accessible control. Space Conditioning, Water Heating, and Plumbing Systems: § 110.0-§ 110.3. Certification, Heating, ventilation, and air conditioning (HVAC) equipment, water heaters, showerheads, faucets, and all other regulated appliances must be certified by the manufacturer to the California Energy Commission. § 110.2(a) HVAC Efficiency. Equipment must meet the applicable efficiency requirements in Table 110.2-A through Table 110.2-N. § 110.2(b) Controls for Heat Pumps with Supplementary Electric Resistance Heaters. Heat pumps with supplementary electric resistance heaters must have controls that prevent supplementary heater operation when the heating load can be met by the heat pump alone; and in which the cut-on temperature for compression heating is higher than the cut-on temperature for supplementary heating, and the cut-off temperature for compression heating is higher than the cut-off temperature for supplementary heating. § 110.2(c) Thermostats. All heating or cooling systems not controlled by a central energy management control system (EMCS) must have a setback thermostat. § 110.3(a)(3) Insulation. Unvented service water heater storage tanks and solar water-heating backup tanks must have adequate insulation, or tank surface heat loss rating. § 110.3(a)(6) Isolation Valves. Instantaneous water heaters with an input rating greater than 6.8 kBtu per hour (2 kW) must have isolation valves with hose bibbs or other fittings on both cold and hot water lines to allow for flushing the water heater when the valves are closed.

RESIDENTIAL MEASURES SUMMARY RMS-1 Project Name: Lily Court Addition Building Type: Single Family Existing Addition/Alteration Date: 11/7/2023 Project Address: 80 Lily Court Brisbane California Energy Climate Zone: CA Climate Zone 03 Total Cond. Floor Area: 2,352 Addition: 232 # of Units: 1

INSULATION Construction Type, Cavity, Area (ft²), Special Features, Status. Rows for Floor, Wall, Door, Wall, Wall, Wall, Roof, Floor.

FENESTRATION Orientation, Area(ft²), U-Fac, SHGC, Overhang, Sidelins, Exterior Shades, Status. Rows for Front (S), Left (W), Rear (D), Right (E), Rear (D).

HVAC SYSTEMS Qty, Heating, Min. Eff, Cooling, Min. Eff, Thermostat, Status. Row: Gas Central Furnace.

HVAC DISTRIBUTION Location, Heating, Cooling, Duct Location, Duct R-Value, Status. Row: HVAC System.

WATER HEATING Qty, Type, Gallons, Min. Eff, Distribution, Status. Row: Small Instantaneous Gas.

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2022 Single-Family Residential Mandatory Requirements Summary

- § 110.5: Pilot Lights. Continuously burning pilot lights are prohibited for natural gas, fan-type central furnaces, household cooking appliances (except appliances without an electrical supply voltage connection with pilot lights that consume less than 150 Btu per hour), and pool and spa heaters. § 150.0(h)(1) Building Cooling and Heating Loads. Heating and/or cooling loads are calculated in accordance with the ASHRAE Handbook, Equipment Volume, Applications Volume, and Fundamentals Volume; the SMACNA Residential Comfort System Installation Standards Manual; or the ACCA Manual J using design conditions specified in § 150.0(i)(2). § 150.0(h)(3A) Clearances. Air conditioners and heat pump outdoor condensing units must have a clearance of at least five feet from the outlet of any dryer. § 150.0(h)(3B) Liquid Line Drier. Air conditioners and heat pump systems must be equipped with liquid line filter driers if required, as specified by the manufacturer's instructions. § 150.0(i)(1) Water Piping, Solar Water-heating System Piping, and Space Conditioning System Line Insulation. All domestic hot water piping must be insulated as specified in § 605.11 of the California Plumbing Code. § 150.0(i)(2) Insulation Protection. Piping insulation must be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind as required by §120.3(b). Insulation exposed to weather must be water retardant and protected from UV light (no adhesive tapes). Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space must include, or be protected by, a Class I or Class II vapor retarder. Pipe insulation buried below grade must be installed in a waterproof and non-washable casing or sleeve. § 150.0(j)(1) Gas or Propane Water Heating Systems. Systems using gas or propane water heaters to serve individual dwelling units must designate a space at least 2.5' x 2.5' x 7' suitable for the future installation of a heat pump water heater, and meet electrical and plumbing requirements, based on the distance between this designated space and the water heater location; and a condensate drain no more than 2' higher than the base of the water heater. § 150.0(j)(2) Solar Water-heating Systems. Solar water-heating systems and collectors must be certified and rated by the Solar Rating and Certification Corporation (SRCC), the International Association of Plumbing and Mechanical Officials, Research and Testing (IAPMO R&T), or by a listing agency that is approved by the executive director. Ducts and Fans: § 110.8(d)(3) Ducts. Insulation installed on an existing space-conditioning duct must comply with § 604.0 of the California Mechanical Code (CMC), if a contractor installs the insulation, the contractor must certify to the customer, in writing, that the insulation meets this requirement. CMC Compliance. All air-distribution system ducts and plenums must meet CMC § 601.0-605.0 and ANSISMACNA-006-2006 HVAC Duct Construction Standards Metal and Flexible 3rd Edition. Portions of supply-air and return-air ducts and plenums must be insulated to R-6.0 or higher; ducts located entirely in conditioned space as confirmed through field verification and diagnostic testing (RA3.1.4.3.3) do not require insulation. Connections of metal ducts and inner cores of flexible ducts must be mechanically fastened. Openings must be sealed with mastic, tape, or other duct-closure system that meets the applicable UL requirements, or aerosol sealant that meets UL 723. The combination of mastic and either mesh or tape must be used to seal openings greater than 1/2". If mastic or tape is used, Building cavities, air handler support platforms, and plenums designed or constructed with materials other than sealed sheet metal, duct board or flexible duct must not be used to convey conditioned air. Building cavities and support platforms may contain ducts, ducts installed in these spaces must not be compressed. § 150.0(m)(2) Factory-Fabricated Duct Systems. Factory-fabricated duct systems must comply with applicable requirements for duct construction, connections, and closures; joints and seams of duct systems and their components must not be sealed with cloth back rubber adhesive duct tapes unless such tape is used in combination with mastic and draw bands. § 150.0(m)(3) Field-Fabricated Duct Systems. Field-fabricated duct systems must comply with applicable requirements for: pressure-sensitive tapes, mastics, sealants, and other requirements specified for duct construction. § 150.0(m)(7) Backdraft Damper. Fan systems that exchange air between the conditioned space and outdoors must have backdraft or automatic dampers. § 150.0(m)(8) Gravity Ventilation Dampers. Gravity ventilating systems serving conditioned space must have either automatic or readily accessible, manually operated dampers in all openings to the outside, except combustion inlet and outlet air openings and elevator shaft vents. § 150.0(m)(9) Protection of Insulation. Insulation must be protected from damage due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather must be suitable for outdoor service (e.g., protected by aluminum, sheet metal, painted canvas, or plastic cover). Cellular foam insulation must be protected as above or painted with a water-retardant and solar radiation-resistant coating. § 150.0(m)(10) Porous Inner Core Flex Duct. Porous inner cores of flex ducts must have a non-porous layer or air barrier between the inner core and outer vapor barrier. § 150.0(m)(11) Duct System Sealing and Leakage Test. When space conditioning systems use forced air duct systems to supply conditioned air to an occupiable space, the ducts must be sealed and duct leakage tested, as confirmed through field verification and diagnostic testing, in accordance with Reference Residential Appendix RA3.1. § 150.0(m)(12) Air Filtration. Space conditioning systems with ducts exceeding 10 feet and the supply side of ventilation systems must have MERV 13 or equivalent filters. Filters for space conditioning systems must have a two inch depth or can be one inch if sized per Equation 150.0.A. Clean-filter pressure drop and labeling must meet the requirements in §150.0(m)12. Filters must be accessible for regular service. Filter racks or grilles must use gaskets, sealing, or other means to close gaps around the inserted filters to and prevents air from bypassing the filter.



2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(m)(3): Space Conditioning System Airflow Rate and Fan Efficiency. Space conditioning systems that use ducts to supply cooling must have a hole for the placement of a static pressure probe...

Ventilation and Indoor Air Quality

§ 150.0(i)(1): Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(i). § 150.0(i)(1B): Central Fan Integrated (CFI) Ventilation Systems...

Pool and Spa Systems and Equipment

§ 110.4(a): Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDSS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting...

Lighting

§ 110.9: Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. § 150.0(x)(1A): Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans...



2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(k)(1)G: Screw based luminaires. Screw based luminaires must contain lamps that comply with Reference Joint Appendix JA6. § 150.0(k)(1)H: Light Sources in Enclosed or Recessed Luminaires. Lamps and other separable light sources that are not compliant with the JAS elevated temperature requirements...

Ventilation and Indoor Air Quality

§ 150.0(i)(1): Requirements for Ventilation and Indoor Air Quality. All dwelling units must meet the requirements of ASHRAE Standard 62.2, Ventilation and Acceptable Indoor Air Quality in Residential Buildings subject to the amendments specified in § 150.0(i). § 150.0(i)(1B): Central Fan Integrated (CFI) Ventilation Systems...

Pool and Spa Systems and Equipment

§ 110.4(a): Certification by Manufacturers. Any pool or spa heating system or equipment must be certified to have all of the following: compliance with the Appliance Efficiency Regulations and listing in MAEDSS; an on-off switch mounted outside of the heater that allows shutting off the heater without adjusting the thermostat setting...

Lighting

§ 110.9: Lighting Controls and Components. All lighting control devices and systems, ballasts, and luminaires must meet the applicable requirements of § 110.9. § 150.0(x)(1A): Luminaire Efficacy. All installed luminaires must meet the requirements in Table 150.0-A, except lighting integral to exhaust fans...



2022 Single-Family Residential Mandatory Requirements Summary

§ 150.0(n): Energy Storage System (ESS) Ready. All single-family residences must meet all of the following: Either ESS-ready interconnection equipment with locked up capacity of 60 amps or more and four or more ESS supplied branch circuits... § 150.0(o): Heat Pump Space Heater Ready. Systems using gas or propane furnaces to serve individual dwelling units must include a dedicated unobstructed 240V branch circuit wiring installed within 5' of the furnace...

*Exceptions may apply.

ROOM LOAD SUMMARY

Table with columns: Zone Name, Room Name, Mult., CFM, Sensible, Latent, COIL COOLING PEAK (CFM, Sensible, Latent), COIL HTG. PEAK (CFM, Sensible). Includes sub-totals for PAGE TOTAL and TOTAL.

* Total includes ventilation load for zonal systems.

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NEW ADDITION FOR: SASHA & ALONA GORER 80 LILY CT BRISBANE, CA 94005 APN: 005-550-040

Table with columns: NO, DESCRIPTION, DATE. Header: REVISIONS

DRAWN BY: KES DATE DRAWN: 1/25/2024 SCALE: 1/4"=1'-0" U.N.O. TYP.

CONCEPT TITLE 24 ENERGY REPORT



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