

GENERAL NOTES

- ALL CONSTRUCTION TO COMPLY W/ 2016 CALIFORNIA BUILDING CODE (CBC), 2016 CALIFORNIA RESIDENTIAL CODE (CRC), 2016 CALIFORNIA ELECTRICAL CODE (CEC), 2016 CALIFORNIA MECHANICAL CODE (CMC), 2016 CALIFORNIA PLUMBING CODE (CPC), 2016 CALIFORNIA ENERGY EFFICIENCY STANDARDS CODE (CEES), 2016 CALIFORNIA FIRE CODE (CFC), 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBS OR CALGREEN), 2016 CALIFORNIA ENERGY CODE AND ALL LOCAL CODES AND ORDINANCES.
- ALL CONNECTORS WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- MANUFACTURED WINDOWS SHALL HAVE A LABEL ATTACHED CERTIFIED BY THE NATIONAL FENESTRATION RATING COUNCIL (NFRC) & SHOWING COMPLIANCE WITH THE ENERGY CALCULATIONS.
- ALL INSULATION MATERIALS SHALL HAVE A FLAME-SPREAD RATING NOT TO EXCEED 25 & A SMOKE DENSITY NOT TO EXCEED 450.
- ALL PENETRATIONS AT PLATES OR OTHER LOCATIONS TO BE PROTECTED FROM RODENT INTRUSION.

MATERIALS

- UNLESS OTHERWISE NOTED, ALL FRAMING LUMBER SHALL BE DOUGLAS FIR (HEM-FIR FOR PRESSURE TREATED MATERIAL), AND MEET THE FOLLOWING COMMERCIAL GRADES:

STUDS, PLATES, BLOCKING:	STANDARD OR BETTER
JOISTS, RAFTERS, LEDGERS & 4X BEAMS & POSTS:	NO. 2
EXPOSED JOISTS, RAFTERS, LEDGERS & 4X BEAMS & POSTS:	NO. 1
BEAMS & POSTS 6X & LARGER:	NO. 1
- WOOD IN CONTACT WITH FOUNDATION CONCRETE SHALL BE PRESSURE TREATED DOUGLAS FIR (HEM-FIR FOR 2 X 4 & 2 X 6 SILL)S CONFORMING TO AWPA LP-2 STANDARD UNLESS OTHERWISE NOTED ON PLANS. WOOD POSTS EMBEDDED IN CONCRETE OR EARTH SHALL BE PRESSURE TREATED DOUGLAS FIR CONFORMING TO AWPA L4 STANDARD AND STAMPED FOR "IN GROUND USE".
 - ALL PRESSURE TREATED LUMBER SHALL BE CLEAN, DRY & FREE FROM SURFACE RESIDUE.
 - HANDLE TREATED LUMBER & FIELD TREAT PENETRATION DAMAGE (ie. CUT ENDS, NOTCHES AND BORINGS) IN ACCORDANCE WITH AWPA STANDARD M-4.
 - ALL PRESSURE TREATED LUMBER SHALL BE STAMPED WITH AWPA QUALITY MARK SPECIFYING "ABOVE GROUND-UI" OR "GROUND CONTACT-UI".
- FLOOR SHALL BE SHEATHED WITH 23/ 32" MIN T & G APA RATED SHEATHING, 45/ 24, EXPOSURE 1 WITH FACE GRAIN OF SHEATHING APPLIED PERPENDICULAR TO JOISTS. GUE WITH PL-400, OR EQUAL, NAIL SHEATHING W/ 10d RING OR SCREW SHANK NAIL S @ 6" OC EDGES AND 12" OC FIELD, TYPICAL. UNLESS OTHERWISE NOTED, AT AREAS WHERE CARPET AND PAD PAD WILL BE APPLIED DIRECTLY OVER THE FLOOR SHEATHING, USE T & G APA RATED STURD-I-FLOOR, 24" OC, EXPOSURE 1.
- WALLS SHALL BE SHEATHED WITH 15/ 32" MIN APA RATED SHEATHING, 24/ 0, EXPOSURE 1, NAIL SHEATHING WITH 8d COMMON NAILS, 8d HOT DIPPED GALVANIZED BOX NAILS, OR 10d ELECTROPLATED BOX NAILS AT 6" OC EDGES & 12" OC FIELD, TYPICAL UNLESS OTHERWISE NOTED.
- ROOF SHALL BE SHEATHED WITH 15/ 32" MIN APA RATED SHEATHING, 24/ 0, EXPOSURE 1, WITH FACE GRAIN OF SHEATHING APPLIED PERPENDICULAR TO RAFTERS. NAIL SHEATHING WITH 8d SINKERS AT 6" OC EDGES, 12" OC FIELD, TYPICAL UNLESS OTHERWISE NOTED. USE PLY CLIPS AT UNBLOCKED PLY EDGES.
- DO NOT NOTCH BEAMS, JOISTS AND POSTS UNLESS OTHERWISE NOTED OR APPROVED BY ENGINEER.

PLUMBING/ MECHANICAL

- SHOWER HEADS SHALL BE DESIGNED AND MANUFACTURED SO THAT THEY WILL NOT EXCEED A WATER SUPPLY FLOW RATE OF 2.0 GALLONS PER MINUTE.
- WATER CLOSETS, EITHER FLUSH TANK, FLUSHOMETER TANK, OR FLUSHOMETER VALVE OPERATED, SHALL HAVE AN AVERAGE CONSUMPTION OF NOT MORE THAN 1.25 GALLONS OF WATER PER FLUSH.
- LAVATORY FAUCETS SHALL BE DESIGNED AND MANUFACTURED SO THAT THEY WILL NOT EXCEED A WATER FLOW RATE OF 1.5 GALLONS PER MINUTE.
- SHOWERS & TUBS W/ SHOWERS REQUIRE A NON-ABSORBANT SURFACE UP TO 72" ABOVE DRAIN INLET, PROVIDE CURTAIN ROD OR APPROVED ENCLOSURE MATERIAL.
- PROVIDE CEMENT BOARD UNDER SHOWER ENCLOSURE MATERIALS, OR APPROVED BACKER BOARD UNDER TILE, TO A HEIGHT OF 72" MIN. ABOVE DRAIN INLET.
- PROVIDE SHOWER W/ INDIVIDUAL CONTROL VALVES OF THE PRESSURE BALANCE OR THE THERMOSTATIC MIXING VALVES TYPE.

FOUNDATION

- ALL CONCRETE SHALL BE f'c = 2500 PSI MINIMUM.
- ALL REINFORCING STEEL IS TO BE ASTM A615, GRADE 40.
- ALL REINFORCING STEEL LAPS SHALL BE 40 DIAMETERS MINIMUM.
- FOOTINGS SHALL BE POURED AGAINST UNDISTURBED SOIL.
- ALL MUDSILLS SHALL BE PRESSURE TREATED DOUGLAS FIR NO. 2 GRADE OR BETTER.
- GRADE UNDER FLOOR GROUND SURFACE TO PROVIDE POSITIVE DRAINAGE TO UNOBSTRUCTED OUTFALL.
- FINISHED GRADE SHALL SLOPE AWAY FROM THE BUILDING AT A MINIMUM SLOPE OF 5% FOR A MINIMUM DISTANCE OF 10 FEET MEASURED PERPENDICULAR TO THE EXTERIOR WALL. IF LOT LINES OR OBSTRUCTIONS PROHIBIT 10 FEET OF SLOPE, PROVIDE 5% SLOPE TO AN APPROVED ALTERNATE DRAINAGE METHOD. EXTERIOR PAVING, CONCRETE SLABS, OR OTHER IMPERVIOUS SURFACES WITHIN 10 FEET OF THE FOUNDATION SHALL BE SLOPED A MINIMUM OF 2% AWAY FROM THE BUILDING.
- FOUNDATION CONCRETE TO BE AT LEAST 20% FLY ASH (OR OTHER APPROVED ADDITIVE) CONTENT.

ELECTRICAL

- BATH RECEPTACLES TO BE ON A SEPARATE 20A CIRCUIT.
- ALL 120V, 15 & 20 AMP OUTLETS SHALL BE LISTED AS TAMPER RESISTANT.

ENERGY NOTES

- LIGHTING IN BATHROOMS, GARAGES, LAUNDRY ROOMS, AND/ OR UTILITY ROOMS MUST BE HIGH EFFICACY & MUST BE CONTROLLED BY A MANUAL-ON VACANCY SENSOR. A MANUAL-ON OCCUPANCY SENSOR MUST BE MANUALLY TURNED ON AND, AS LONG AS THE SENSOR DETECTS MOVEMENT, STAYS ON. WHEN MOVEMENT IS NOT DETECTED, WHICH CANNOT BE LONGER THAN 30 MINUTES, THE FIXTURE AUTOMATICALLY TURNS OFF. A BATHROOM IS DEFINED AS A ROOM CONTAINING A SHOWER, TUB, TOILET, OR SINK THAT IS USED FOR PERSONAL HYGIENE. THIS WOULD INCLUDE A VANITY SINK IN A DRESSING AREA OR BEDROOM, REQUIRING A HIGH EFFICACY LIGHT SERVING THAT SPECIFIC AREA.

SCOPE OF WORK

BATHROOM ADDITION TO AN EXISTING SINGLE FAMILY DWELLING

SQUARE FOOTAGE

EXISTING: 1053
PROPOSED ADDITION: 51
TOTAL: 1104

DRAWING INDEX

- NOTES, SITE PLAN, FLOOR PLANS
- ELEVATIONS, FOUNDATION PLAN, ROOF FRAMING PLAN
- SECTIONS, DETAILS, ELECTRICAL
- TITLE 24 REPORT
- TITLE 24 REPORT

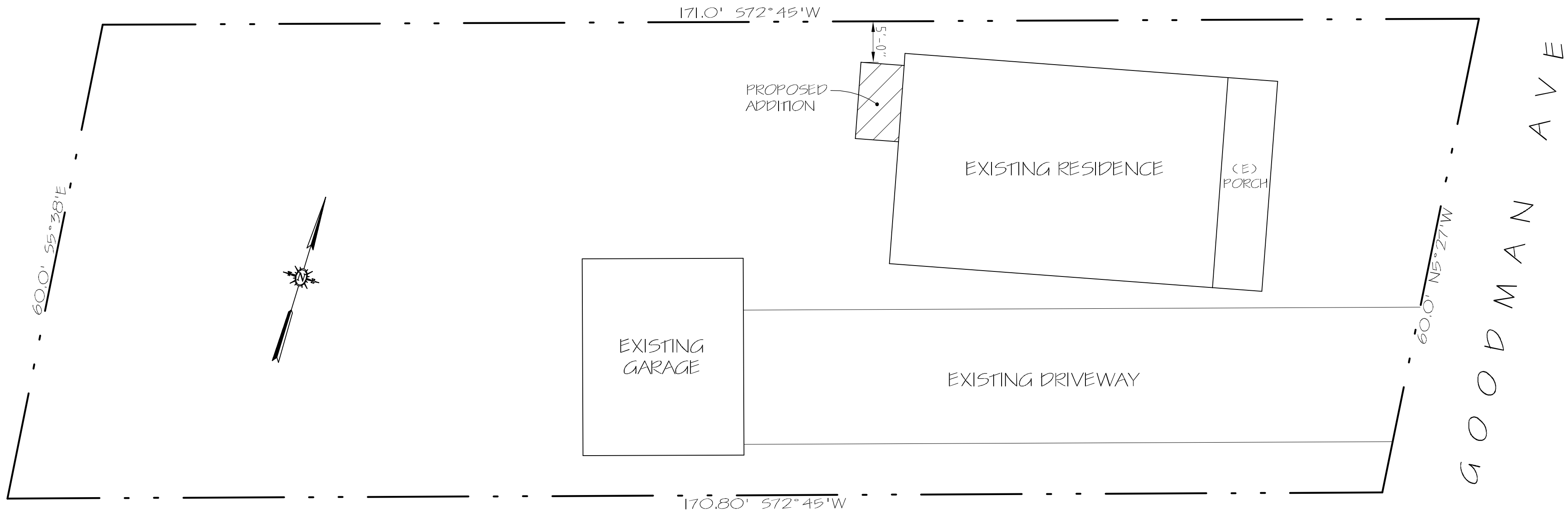
SHEARWALL SCHEDULE

SYMBOL	SHEATHING & EDGE NAILS	ANCHOR BOLTS	NOTES
A6	3/ 8" MIN APA RATING W/ 8d @ 6" OC	5/ 8" @ 72" OC	1, 2
A4	3/ 8" MIN APA RATING W/ 8d @ 4" OC	5/ 8" @ 32" OC	1

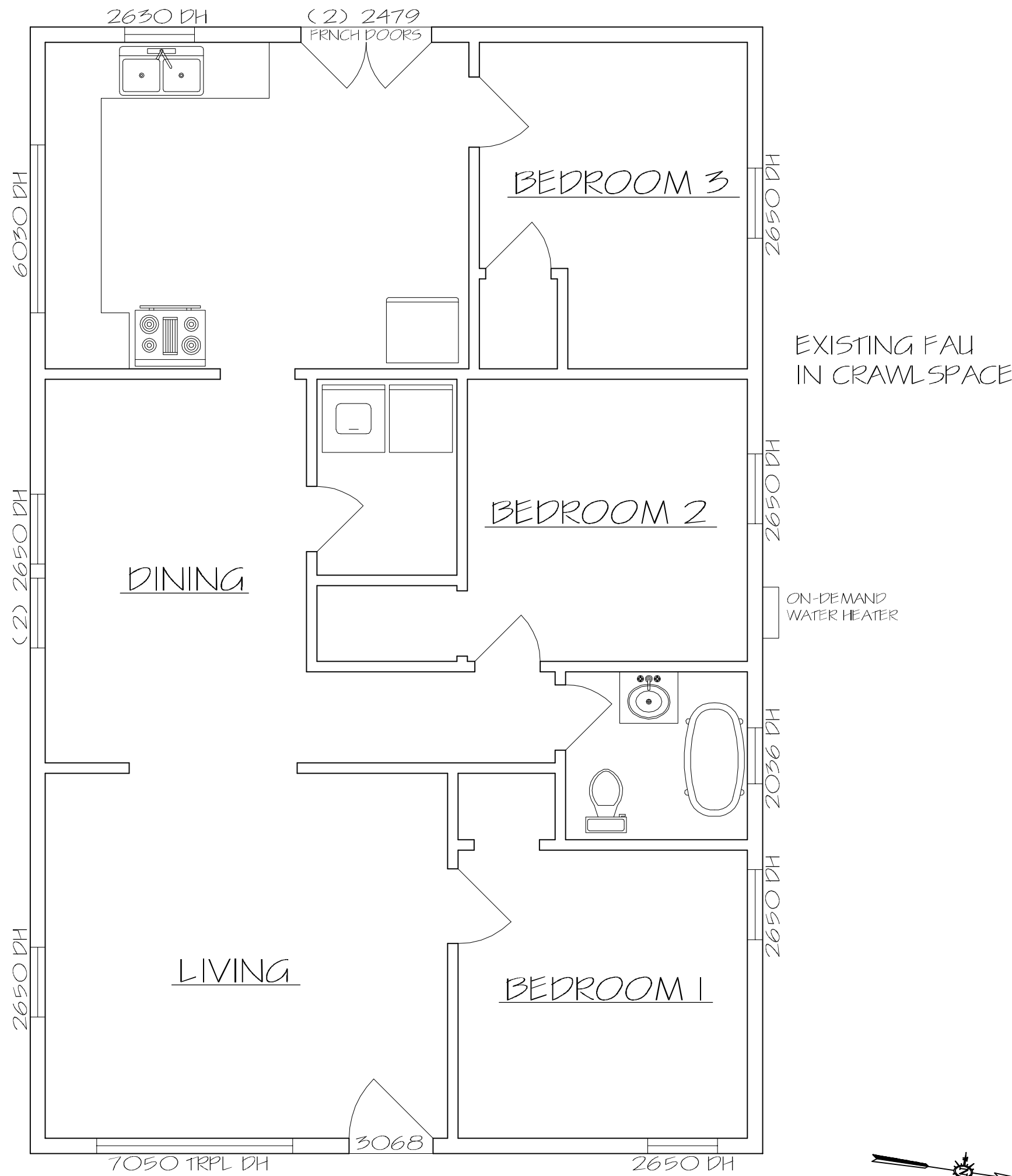
GENERAL NOTES: FIELD NAILING SHALL BE 12" OC. BLOCK & NAIL ALL PANEL EDGES. USE COMMON NAILS OR HDG FOR SHEARWALLS. SPLICE AT CENTERLINE OF FRAMING. STAGGER NAILS AT JOINTS. "EN" REFERS TO 6" OC OR SHEARWALL SPACING FOR THAT MEMBER (WHICHEVER HAS CLOSER SPACING). USE 5" X 5" X 0.229" WASHERS AT ANCHOR BOLTS. USE EN AT ALL KING POSTS. ANCHOR BOLTS HAVE 7" EMBEDMENT.

NOTE 1: USE 4X MIN. AT TEDDOWNS, OR SISTER (2) 2 X 4 WITH 16d @ EN SPACING
NOTE 2: USE A6 FOR ALL EXTERIOR SHEATHING LCN.

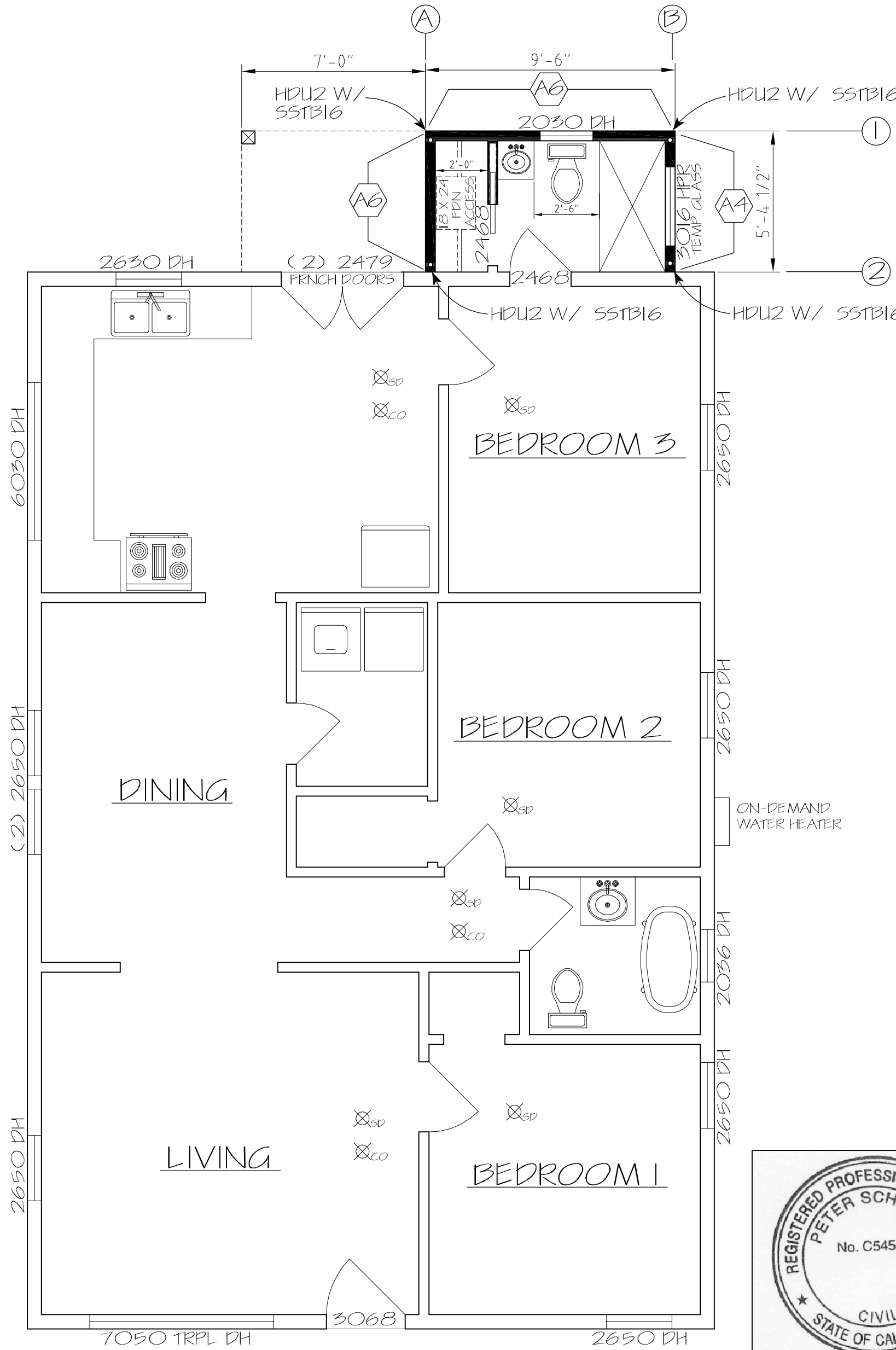
Attachment 1



SITE PLAN
SCALE: 1" = 10'-0"



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



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



3/15/16

Date: 2/17

Revisions:

no.	date	by

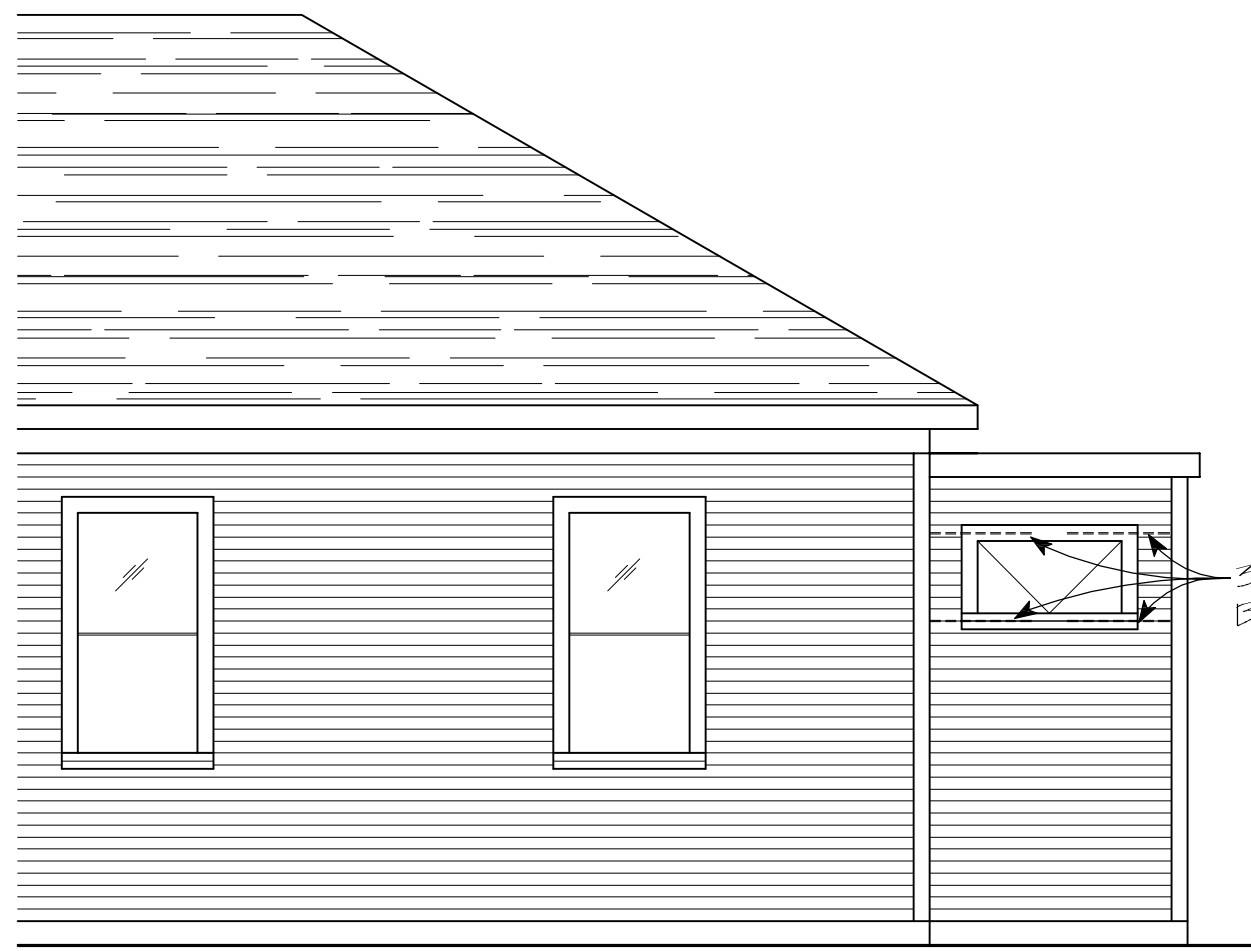
Job No.

Drawn By:
RAR II

Addition For:
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427 Goodman Avenue, Santa Rosa, CA 95407
APN: 125-172-042
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Rick Rocklewitz
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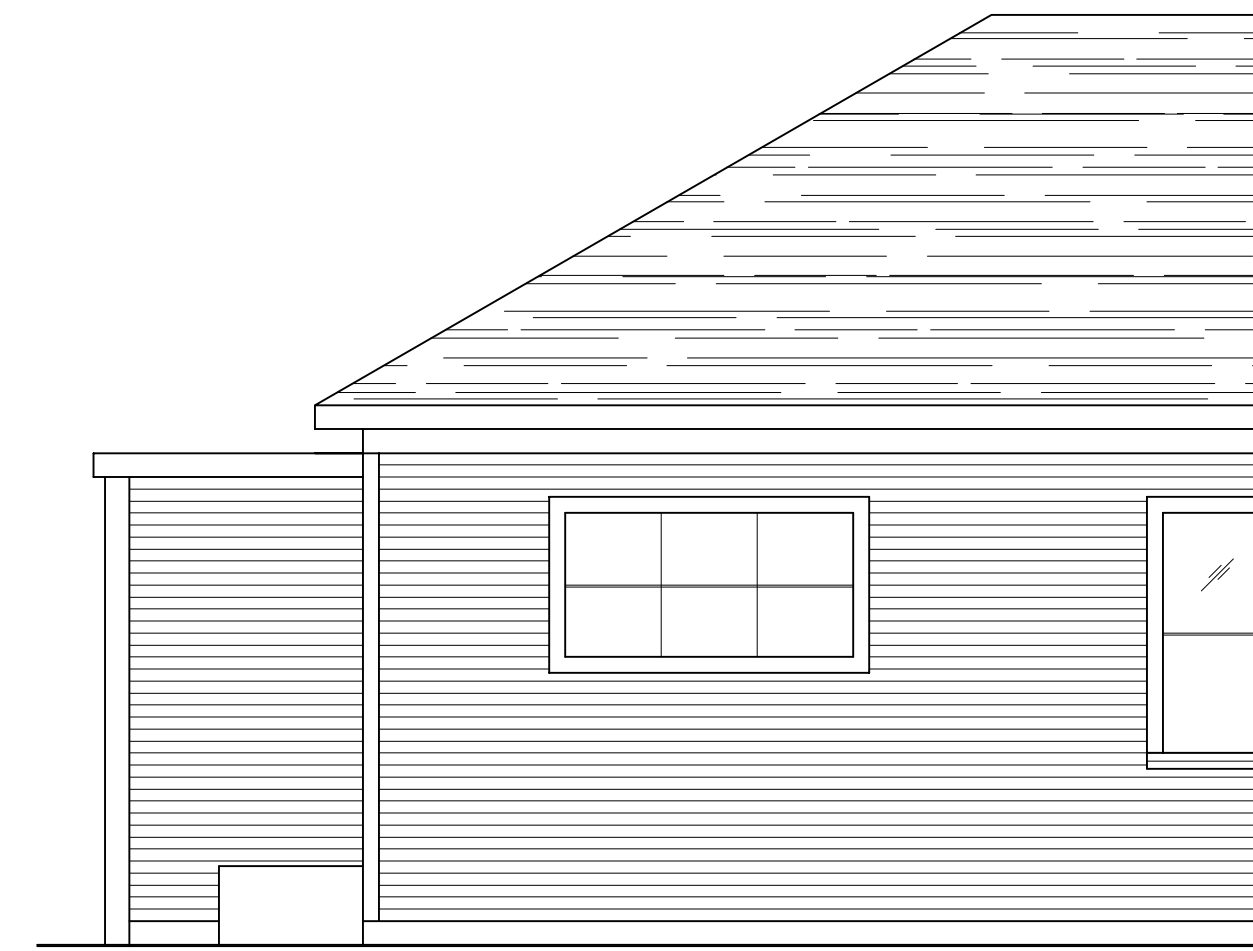
Sheet:
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RIGHT ELEVATION
SCALE: 1/4" = 1'-0"



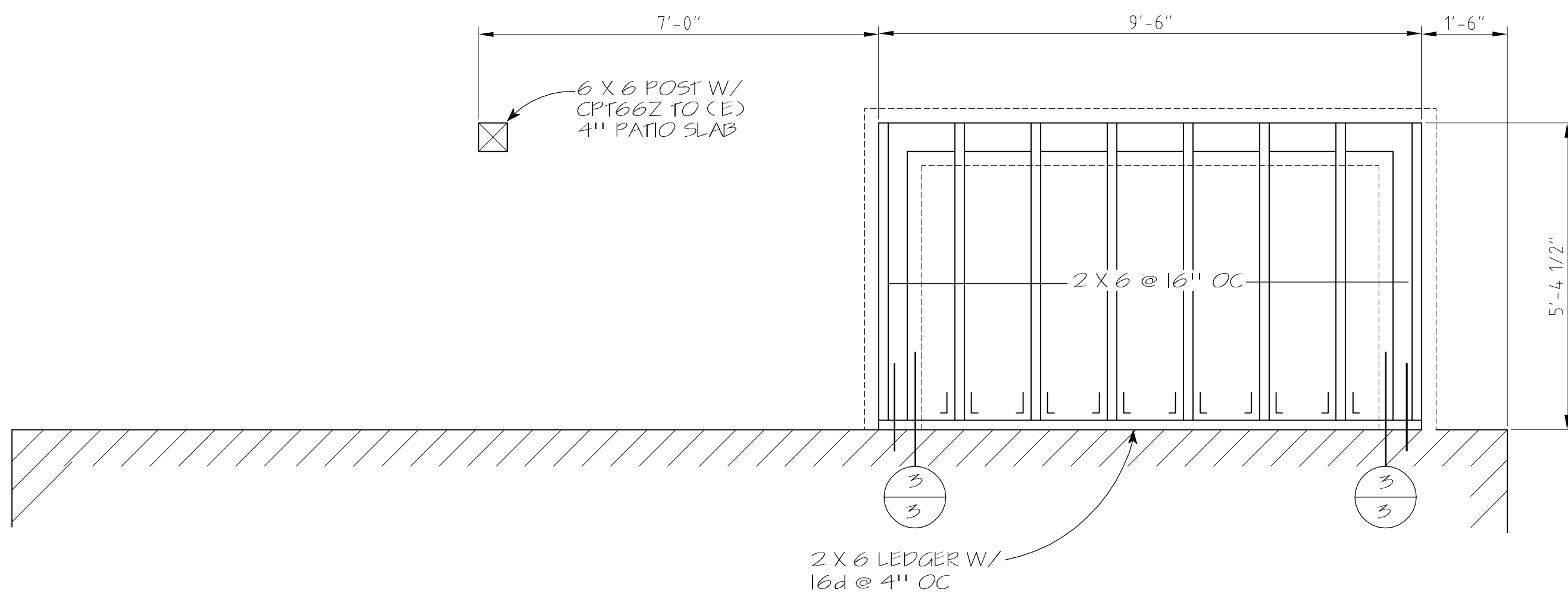
REAR ELEVATION
SCALE: 1/4" = 1'-0"



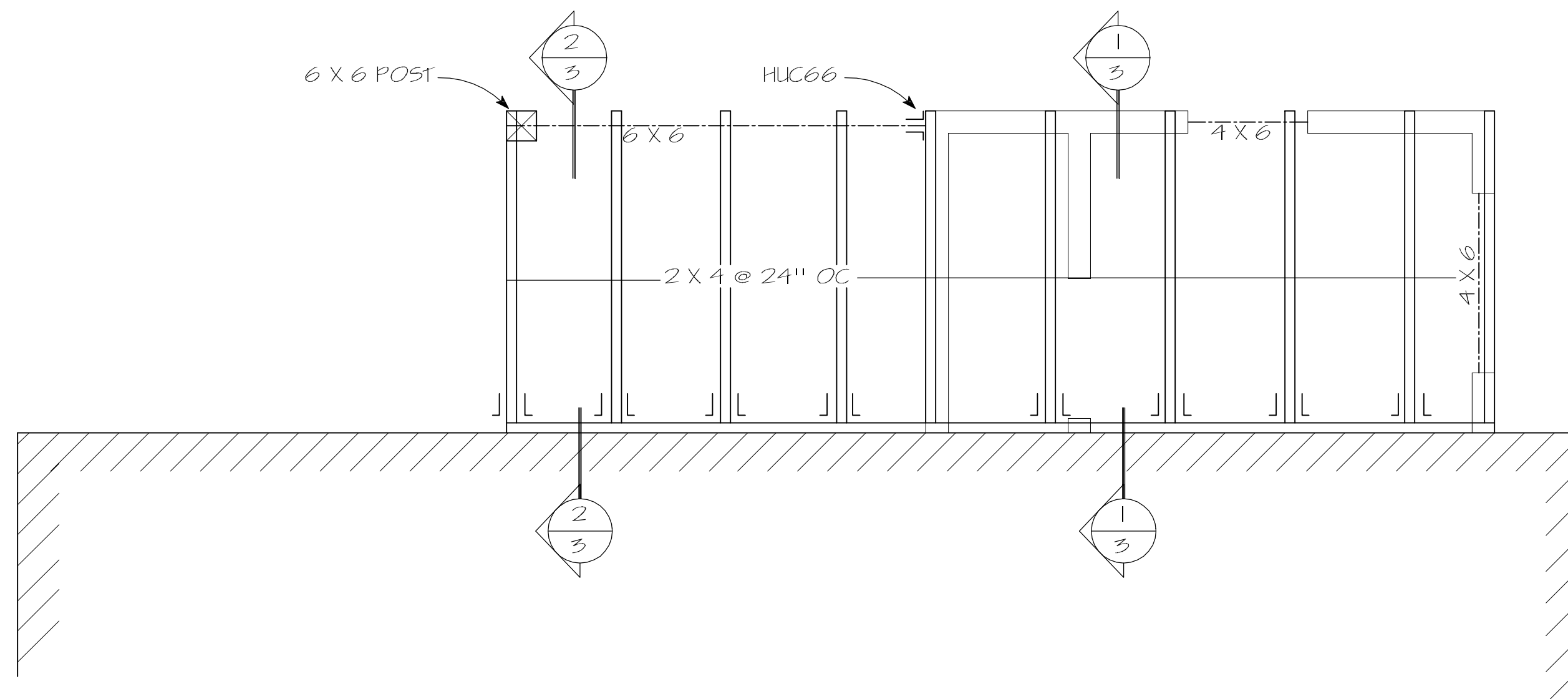
LEFT ELEVATION
SCALE: 1/4" = 1'-0"

SUBFLOOR VENTS

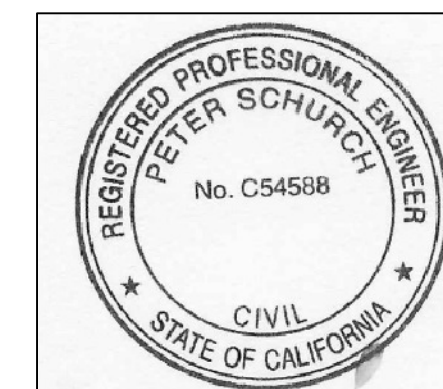
AREA TO BE VENTED: 51 SQ FT
REQ'D VENT (1/150): 34 SQ FT
USE (2) 6 X 14 SCREENED VENTS,
EQUALLY SPACED



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



ROOF FRAMING PLAN
SCALE: 1/2" = 1'-0"



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Revisions:		
no.	date	by

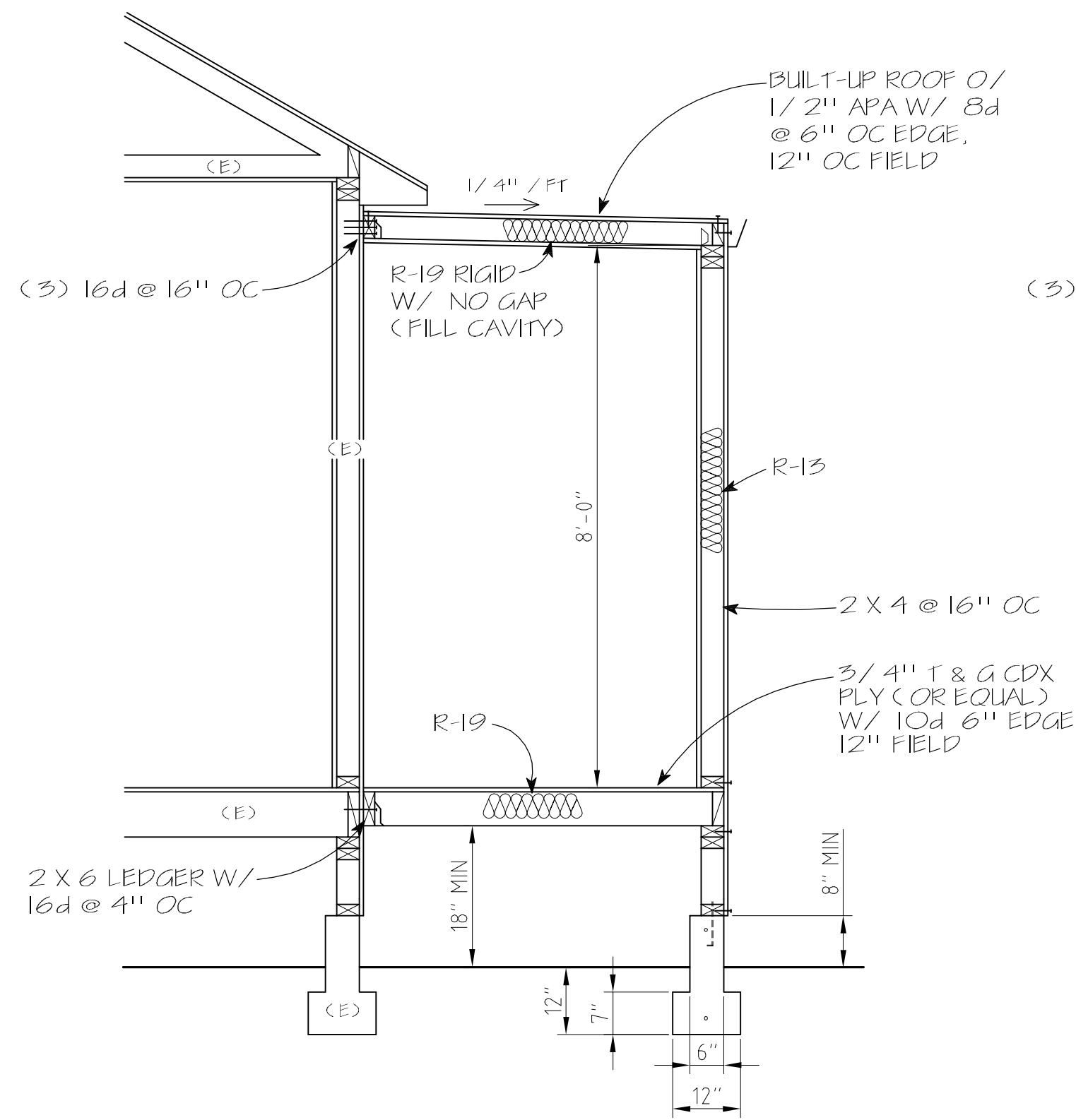
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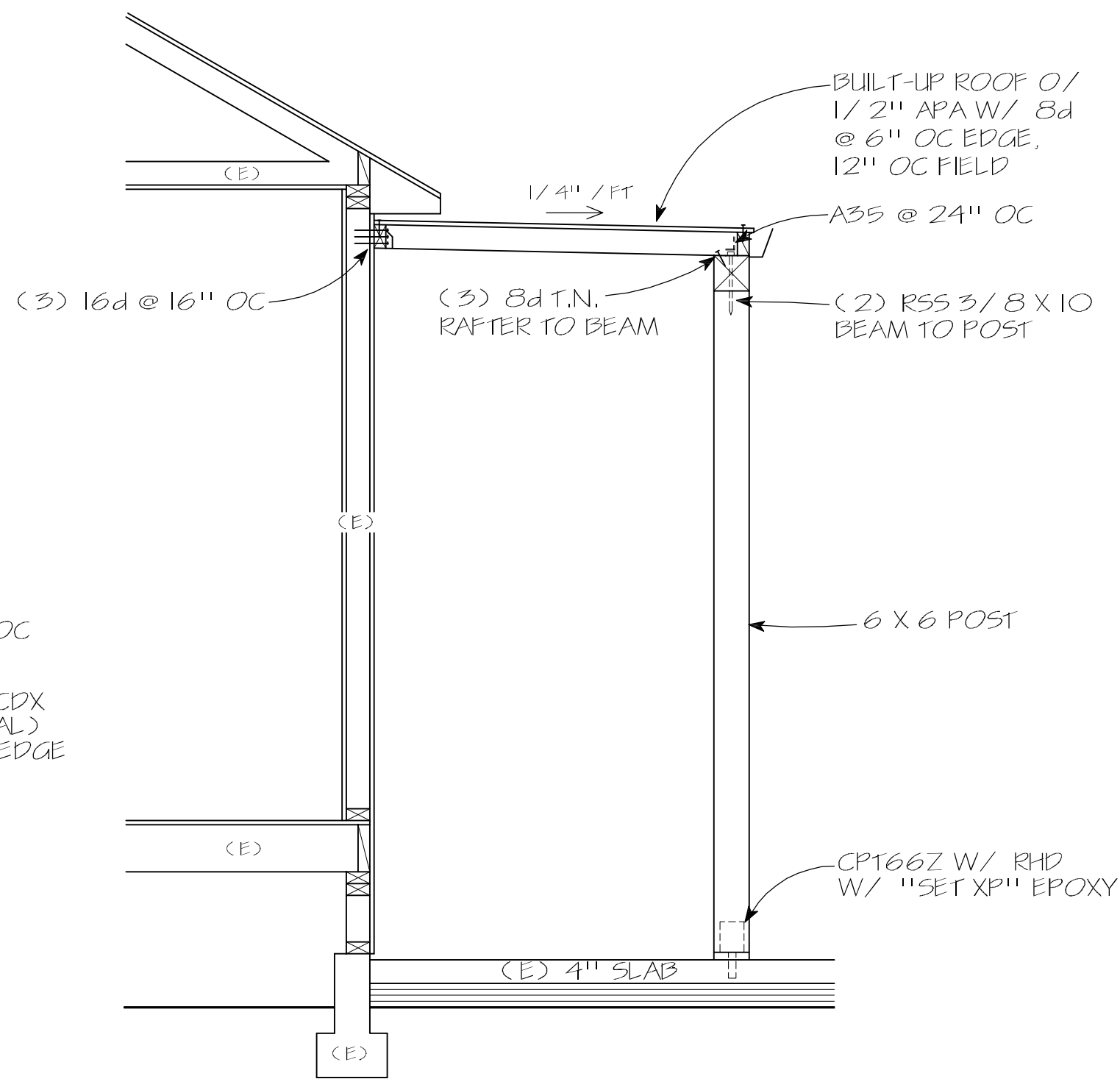
Addition For:
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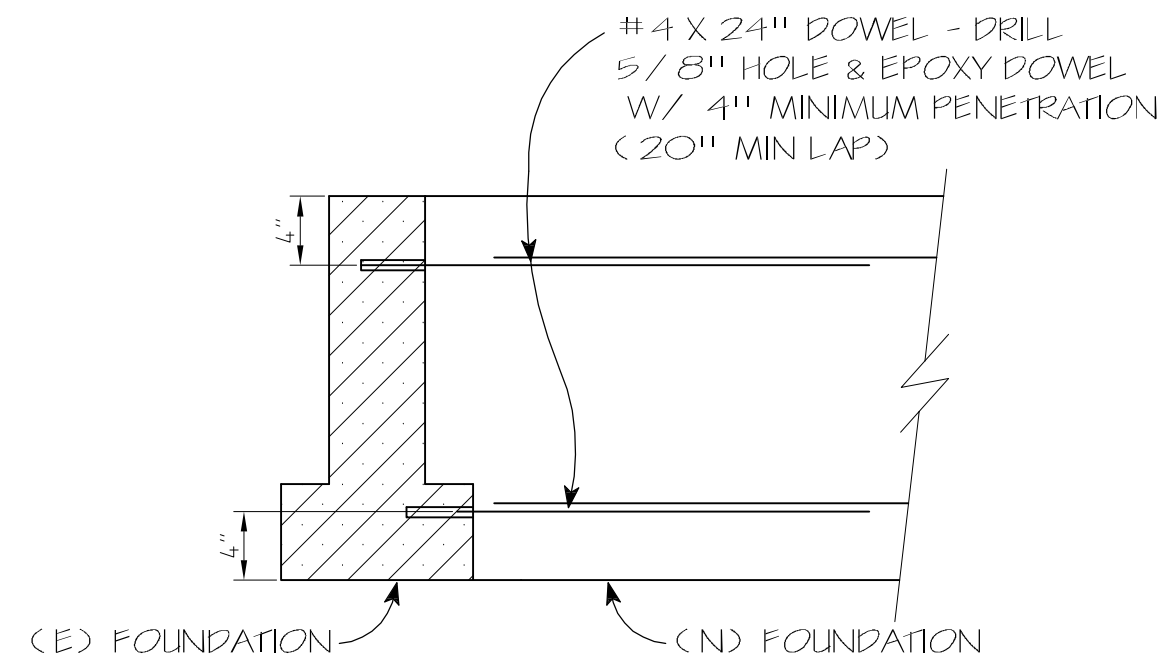
SECTION 1
SCALE: 1/2" = 1'-0"



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

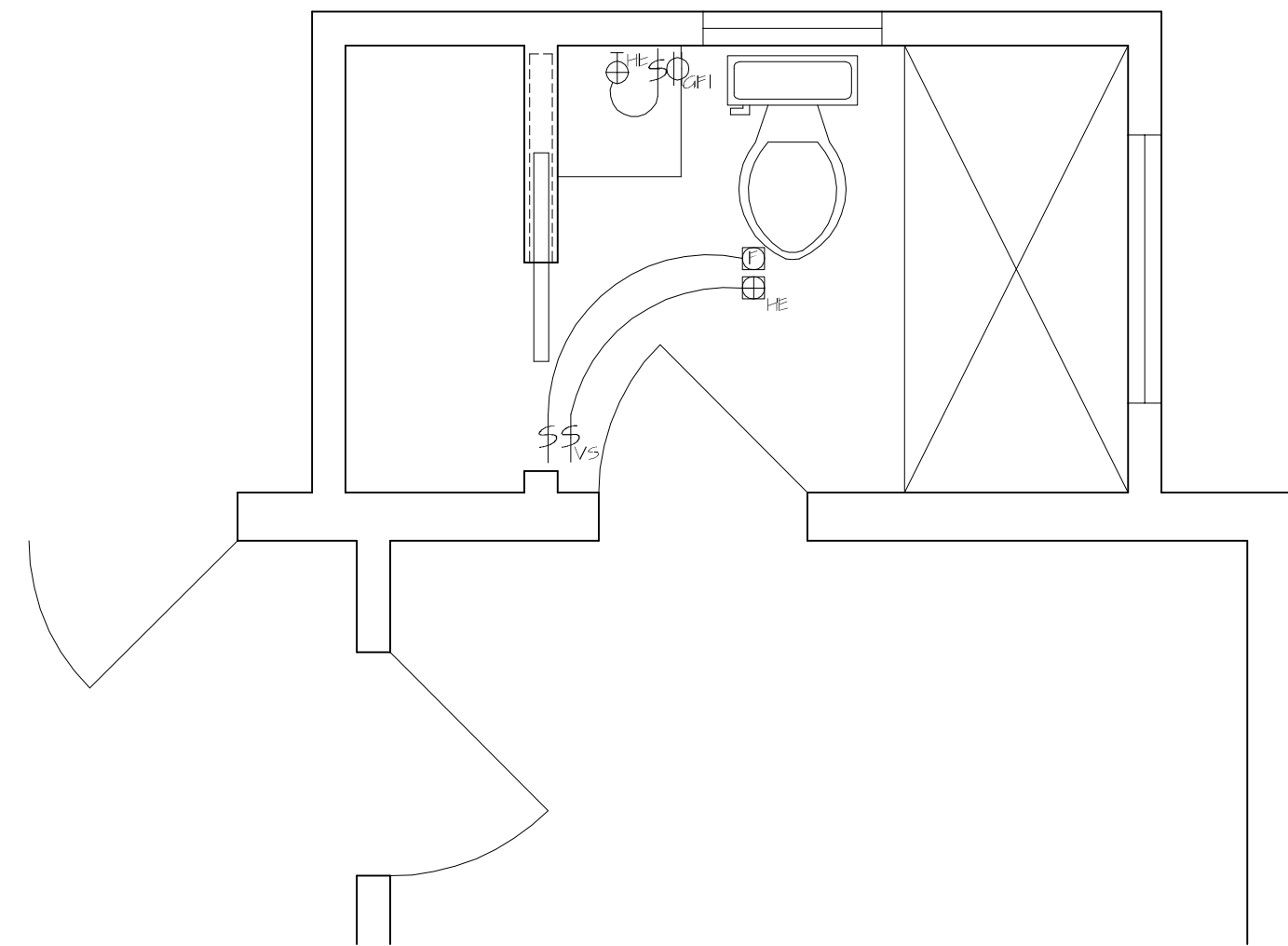
RHD: RETROFIT EPOXY HOLDDOWNS
SIMPSON SETXP EPOXY IS REQUIRED
USE 1/2" THREADED RODS W/ 3" EMBEDMENT FOR CPT66Z
ENGINEERING OBSERVATION IS REQUIRED FOR RHD INSTALLATION
DRILLED HOLES SHALL BE 5/8" DIAMETER
DO NOT DAMAGE REINFORCING

- CLEAN HOLES USING THE FOLLOWING PROCEDURE:
-BLOW DUST OUT FROM THE BOTTOM UP USING A COMPRESSED AIR TUBE WHICH EXTENDS DOWN TO THE BOTTOM OF THE HOLE
-SCRUB HOLES WITH A 1/2" WIRE BRISTLE BRUSH
-REPEAT PROCEDURE AT LEAST THREE TIMES UNTIL ALL SURFACES ARE CLEAN AND NO DUST COMES UP WITH THE COMPRESSED AIR
- INSTALL EPOXY FROM THE BOTTOM OF THE HOLE AND FILL HOLE AT LEAST HALF FULL
- INSERT ROD AND ROTATE ONE TURN TO ENSURE GOOD BONDING
- ALL ANCHORS SHALL BE CLEAN AND GREASE FREE
- THREADED RODS SHALL BE THREADED FOR THEIR FULL LENGTH

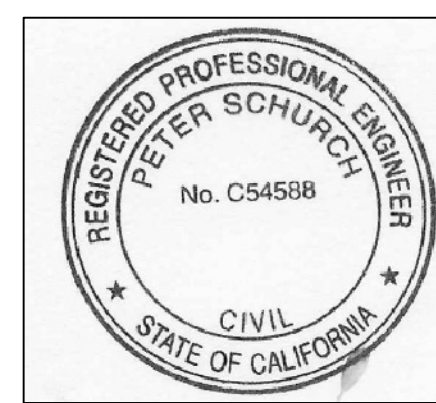


DETAIL 3
SCALE: 1" = 1'-0"

- ELECTRICAL SYMBOLS
- | | |
|---|--|
| ⌚ _{E1} DUPLEX CONV. OUTLET W/ GROUND FAULT INTERRUPTER | ⌚ SINGLE POLE SWITCH |
| ⌚ _{CO} 110V SMOKE DET. W/ BAT. BACK-UP | ⌚ _{VS} SWITCH W/ VACANCY SENSOR |
| ⌚ _{CO} CARBON MONOXIDE ALARM | ⌚ 50 CFM MIN EXHAUST FAN (W/ BACKDRAFT DAMPER) |
| ⌚ RECESSED LIGHT (IC RATED) | |
| ⌚ _E RECESSED HIGH-EFFICACY LIGHT (40 LUMENS/ WATT OR BETTER) | |
| ⌚ _E WALL MOUNTED HIGH-EFFICACY LIGHT | |
- NOTE: ALL RECEPTACLE OUTLETS TO BE LISTED AS TAMPER RESISTANT



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



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Sheet:
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residential Building
Calculation Date/Time: 18:04, Tue, Mar 14, 2017
Calculation Description: Title 24 Analysis
Input File Name: fitzpatrick addition ONLY.rbd16x

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01	02	03	04
Name	Type	Fan Power (Watts/CFM)	HERS Verification
HVAC Fan 1	Single Speed PSC Furnace Fan	0.58	---

Registration Number:
CA Building Energy Efficiency Standards - 2016 Residential Compliance

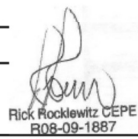
Registration Date/Time:
Report Version - CF1R-03032017-695

HERS Provider:
Report Generated at: 2017-03-14 18:05:25

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurate and complete.	
Documentation Author Name: Rick Rocklewitz	Documentation Author Signature: 
Company: NRG Compliance, LLC	Signature Date: 3/14/2017
Address: PO Box 3777	CEA/HERS Certification Identification (if applicable):
City/State/Zip: Santa Rosa, California 95402	Phone: 707-237-6957
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 6 of the California Code of Regulations. 3. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.	
Responsible Designer Name: Rick Rocklewitz	Responsible Designer Signature:
Company: Rick Rocklewitz	Date Signed:
Address: 401 Watertrough Road	License:
City/State/Zip: Sebastopol, California 95472	Phone: 707-824-1803

Registration Number:
CA Building Energy Efficiency Standards - 2016 Residential Compliance

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GENERAL INFORMATION					
01	Project Name Residential Building				
02	Calculation Description Title 24 Analysis				
03	Project Location 427 Goodman Avenue				
04	City	05	Standards Version Compliance 2017		
06	Zip Code	07	Compliance Manager Version BEMCompMgr 2016.2.1 (895)		
08	Climate Zone	09	Software Version EnergyPro 7.1		
10	Building Type	11	Front Orientation (deg/Cardinal) 90		
12	Project Scope	13	Number of Dwelling Units 1		
14	Total Cond. Floor Area (ft²)	15	Number of Zones 1		
16	Slab Area (ft²)	17	Number of Stories 1		
18	Addition Cond. Floor Area	19	Natural Gas Available Yes		
20	Addition Slab Area (ft²)	21	Glazing Percentage (%) 20.6%		

ADDITION ALONE PROJECT ANALYSIS PARAMETERS					
01	02	03	04	05	06
Existing Area (excl. new addition) ft2	Addition Area (excl. existing) ft2	TOTAL AREA	Existing Bedrooms	Addition Bedrooms	Total Bedrooms
969	51	1020	0	0	0

COMPLIANCE RESULTS	
01	Building Complies with Computer Performance
02	This building DOES NOT require HERS Verification
03	This building incorporates one or more Special Features shown below

ENERGY USE SUMMARY				
04	05	06	07	08
Energy Use (kTDV/ft²-yr)	Standard Design	Proposed Design	Compliance Margin	Percent Improvement
Space Heating	0.00	0.12	-0.12	0.0%
Space Cooling	199.25	197.54	1.71	0.9%
IAQ Ventilation	0.00	0.00	0.00	0.0%
Water Heating	248.80	248.80	0.00	0.0%
Photovoltaic Offset	---	0.00	---	---
Compliance Energy Total	448.05	446.46	1.59	0.4%

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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 40 ft. in length							
• Ducts in crawl space							
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 components tables below.							
Building-level Verifications:							
• --None--							
Cooling System Verifications:							
• --None--							
HVAC Distribution System Verifications:							
• --None--							
Domestic Hot Water System Verifications:							
• --None--							
BUILDING - FEATURES INFORMATION							
01	02	03	04	05	06	07	
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	
Residential Building	51	1	0	1	0	1	
ZONE INFORMATION							
01	02	03	04	05	06	07	
Zone Name	Zone Type	HVAC System Name	Zone Floor Area (ft²)	Avg. Ceiling Height	Water Heating System 1	Water Heating System 2	
First Floor Addition	Conditioned	HVAC System1	51	8			
OPAQUE SURFACES							
01	02	03	04	05	06	07	08
Name	Zone	Construction	Azimuth	Orientation	Gross Area (ft²)	Window & Door Area (ft²)	Tilt (deg)
Left Wall	First Floor Addition	R-13 Wall	180	Left	43	0	90
Rear Wall	First Floor Addition	R-13 Wall	270	Back	76	6	90
Right Wall	First Floor Addition	R-13 Wall	0	Right	43	4.5	90
Raised Floor	First Floor Addition	R-19 Floor Crawlspace			51		

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OPAQUE SURFACES - Cathedral Ceilings											
01	02	03	04	05	06	07	08	09	10	11	
Name	Zone	Type	Orientation	Area (ft²)	Skylight Area (ft2)	Roof Rise (x in 12)	Roof Pitch	Roof Tilt (deg)	Roof Reflectance	Roof Emissance	Framing Factor
Roof	First Floor Addition	R-19 Roof No Attic	Back	51	0	0	0	0	0.1	0.85	0.1
FENESTRATION / GLAZING											
01	02	03	04	05	06	07	08	09	10		
Name	Type	Surface (Orientation-Azimuth)	Width (ft)	Height (ft)	Multiplier	Area (ft²)	U-factor	SHGC	Exterior Shading		
Window	Window	Rear Wall (Back-270)	---	---	1	6.0	0.34	0.30	Insect Screen (default)		
Window 2	Window	Right Wall (Right-0)	---	---	1	4.5	0.34	0.30	Insect Screen (default)		
OPAQUE SURFACE CONSTRUCTIONS											
01	02	03	04	05	06	07					
Construction Name	Surface Type	Construction Type	Framing	Total Cavity R-value	Winter Design U-value	Assembly Layers					
R-19 Floor Crawlspace	Floors Over Crawlspace	Wood Framed Floor	2x6 @ 16 in. O.C.	R 19	0.049	• Floor Surface: Carpeted • Floor Deck: Wood Siding/sheathing/decking • Cavity / Frame: R-19 / 2x6					
R-13 Wall	Exterior Walls	Wood Framed Wall	2x4 @ 16 in. O.C.	R 13	0.095	• Inside Finish: Gypsum Board • Cavity / Frame: R-13 / 2x4 • Exterior Finish: Wood Siding/sheathing/decking					
R-19 Roof No Attic	Cathedral Ceilings	Wood Framed Ceiling	2x8 @ 16 in. O.C.	R 19	0.054	• Inside Finish: Gypsum Board • Cavity / Frame: R-19 / 2x8 • Roof Deck: Wood Siding/sheathing/decking • Roofing: 5 PSF (Normal Gravel)					
BUILDING ENVELOPE - HERS VERIFICATION											
01	02		03			04					
Quality Insulation Installation (QII)	Quality Installation of Spray Foam Insulation		Building Envelope Air Leakage			CFM50					
Not Required	Not Required		Not Required			---					
WATER HEATING SYSTEMS											
01	02	03	04	05	06						
Name	System Type	Distribution Type	Water Heater	Number of Heaters	Solar Fraction (%)						
DHW Sys 1	DHW	Standard	DHW Heater 1 (1)	1	0%						

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WATER HEATERS										
01	02	03	04	05	06	07	08	09	10	11
Name	Heater Element Type	Tank Type	Number of Units	Tank Volume (gal)	Energy Factor or Efficiency	Input Rating/Pilot	Tank Insulation R-value (Int/Ext)	Standby Loss / Recovery Eff	NEEA Heat Pump Type	Tank Location or Ambient Condition
DHW Heater 1	Gas	Small Instantaneous	1	n/a	0.82 EF	199000 Btu/hr	n/a	n/a	n/a	n/a
SPACE CONDITIONING SYSTEMS										
01	02	03	04	05	06					
SC Sys Name	System Type	Heating Unit Name	Cooling Unit Name	Fan Name	Distribution Name					
HVAC System1	Other Heating and Cooling System	Heating Component 1	Cooling Component 1	HVAC Fan 1	Air Distribution System 1					
HVAC - HEATING UNIT TYPES										
01	02		03	04						
Name	System Type		Number of Units	Efficiency						
Heating Component 1	CntrlFurnace		1	78 AFUE						
HVAC - COOLING UNIT TYPES										
01	02	03	04	05	06	07	08			
Name	System Type	Number of Units	EER	SEER	Zonally Controlled	Compressor Type	HERS Verification			
Cooling Component 1	NoCooling	1	---	---	---	---	---			
HVAC - DISTRIBUTION SYSTEMS										
01	02	03	04	05	06	07	08			
Name	Type	Duct Leakage	Insulation R-value	Duct Location	Bypass Duct	HERS Verification				
Air Distribution System 1	DuctsCrawl	Existing (not specified)	6	Crawl space	None	Air Distribution System 1-hers-dist				
HVAC DISTRIBUTION - HERS VERIFICATION										
01	02	03	04	05	06	07	08			
Name	Duct Leakage Verification	Duct Leakage Target (%)	Verified Duct Location	Verified Duct Design	Buried Ducts	Deeply Buried Ducts	Low-leakage Air Handler			
Air Distribution System 1-hers-dist	Not Required		Not Required	Not Required	Not Required	Not Required	---			

Registration Number:
CA Building Energy Efficiency Standards - 2016 Residential Compliance

Registration Date/Time:
Report Version - CF1R-03032017-695

HERS Provider:
Report Generated at: 2017-03-14 18:05:25

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Drawn By:
RAR II

Job No.

Date: 2/17
Revisions:
no. date by

RESIDENTIAL MEASURES SUMMARY
 Project Name _____
 Building Type _____ ☒ Single Family ☒ Addition Alone
 Date _____ **RMS-1**

Brihan Filipatsh												3/4/2017	
Project Address		427 Goodman Avenue		Saint Rosa		☐ Multi-Family ☐ Existing Addition/Alteration							
Construction		Type		Cavity		Area (ft²)		Special Features		Status			
Fluor	Wood Framed w/Ceiling Space			R 19	152		51				New		
Wall	Wood Framed			R 13							New		
Roof	Wood Framed Shingles			R 19	51						New		
Outslating	Wood Framed			no insulation			65				Existing		
PENESTRATION		Total Area		ft²		GROSS PERCENTAGE		20.6 %		NOMINATING AVERAGE L-VALUE			
Orientation	Area(ft²)										0.34		
Roof (ft²)	5.0	0.340	0.34	none	none	none	none	Bag Screens	Exterior Shades		New		
Roof (ft²)	4.5	0.340	0.34	none	none	none	none	Bag Screens			New		



2016 Low-Rise Residential Mandatory Measures Summary

2016 Low-Rise Residential Mandatory Measures Summary

[illegible]

2016 Low-Rise Residential Mandatory Measures Summary

[illegible]

2016 Low-Rise Residential Mandatory Measures Summary

[illegible]