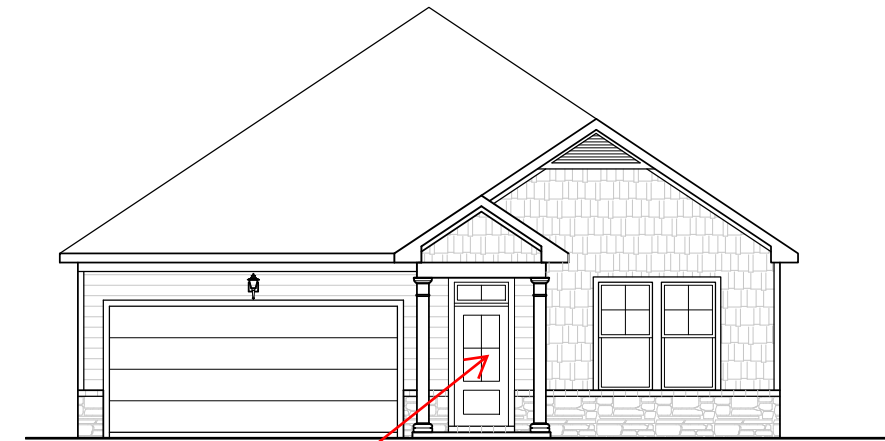


# Wellers Knoll Lot 52



## DAPHNE ELEVATION C



3068 six panel w 12"  
Transom

### INCLUDED OPTIONS:

- 1st FLOOR**
- EXTENDED DECK**
- FIREPLACE**
- GOURMET KITCHEN**

### GENERAL NOTES

- NATIONAL, STATE AND LOCAL CODES AND REGULATIONS SHALL BE APPLIED TO ALL WORK BEING PERFORMED
- BUILDER TO VERIFY ALL SITE CONDITIONS, STRUCTURAL OPTIONS AND DIMENSIONS BEFORE START OF CONSTRUCTION
- DISCREPANCIES SHALL BE REPORTED TO PLAN DESIGNER FOR CORRECTION OR CLARIFICATION BEFORE CONTINUING WORK
- DIMENSIONS ONLY BE READ OR CALCULATED, NOT SCALED

### GOVERNING CODES & STANDARDS

### DESIGN CRITERIA

- 2018 RESIDENTIAL BUILDING CODE WITH GEORGIA 2020 AMENDMENTS
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA 2020 AMENDMENTS
- 2018 INTERNATIONAL FIRE CODE WITH NO AMENDMENTS
- 2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA 2020 AMENDMENTS
- 2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA 2020 AMENDMENTS
- 2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA 2020 AMENDMENTS
- 2020 NATIONAL ELECTRICAL CODE WITH NO GEORGIA AMENDMENTS

ROOF LIVE LOAD: 20PSF.  
FLOOR LIVE LOAD: 40PSF. (INCLUDES DECKS, PATIOS  
AND PORCHES)  
BASIC WIND VELOCITY: 90MPH  
SEISMIC DESIGN CATEGORY: B

### SQUARE FOOTAGE

C ELEVATION	
FIRST FLOOR	1917 SQ. FT.
TOTAL CONDITIONED	1917 SQ. FT.
GARAGE	424 SQ. FT.
COVERED PORCH	48 SQ. FT.
FRONT PORCH	52 SQ. FT.

THE FINISHED SQUARE FOOTAGE OF A PLAN IS TO BE REPORTED TO THE NEAREST WHOLE FOOT. THE FINISHED SQUARE FOOTAGE CALCULATIONS FOR THIS PLAN WERE MADE BASED ON PLAN DIMENSIONS OR DIGITAL DRAWINGS FILES ONLY, AND MAY VARY FROM THE FINISHED SQUARE FOOTAGE OF THE PLAN AS BUILT.

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PLAN NAME: DAPHNE LH

SUBDIVISION: ---

LOT#: ---

REVISION NO. 6  
BY DAN.REID  
REVISION DATE 2023-10-17

COVER SHEET

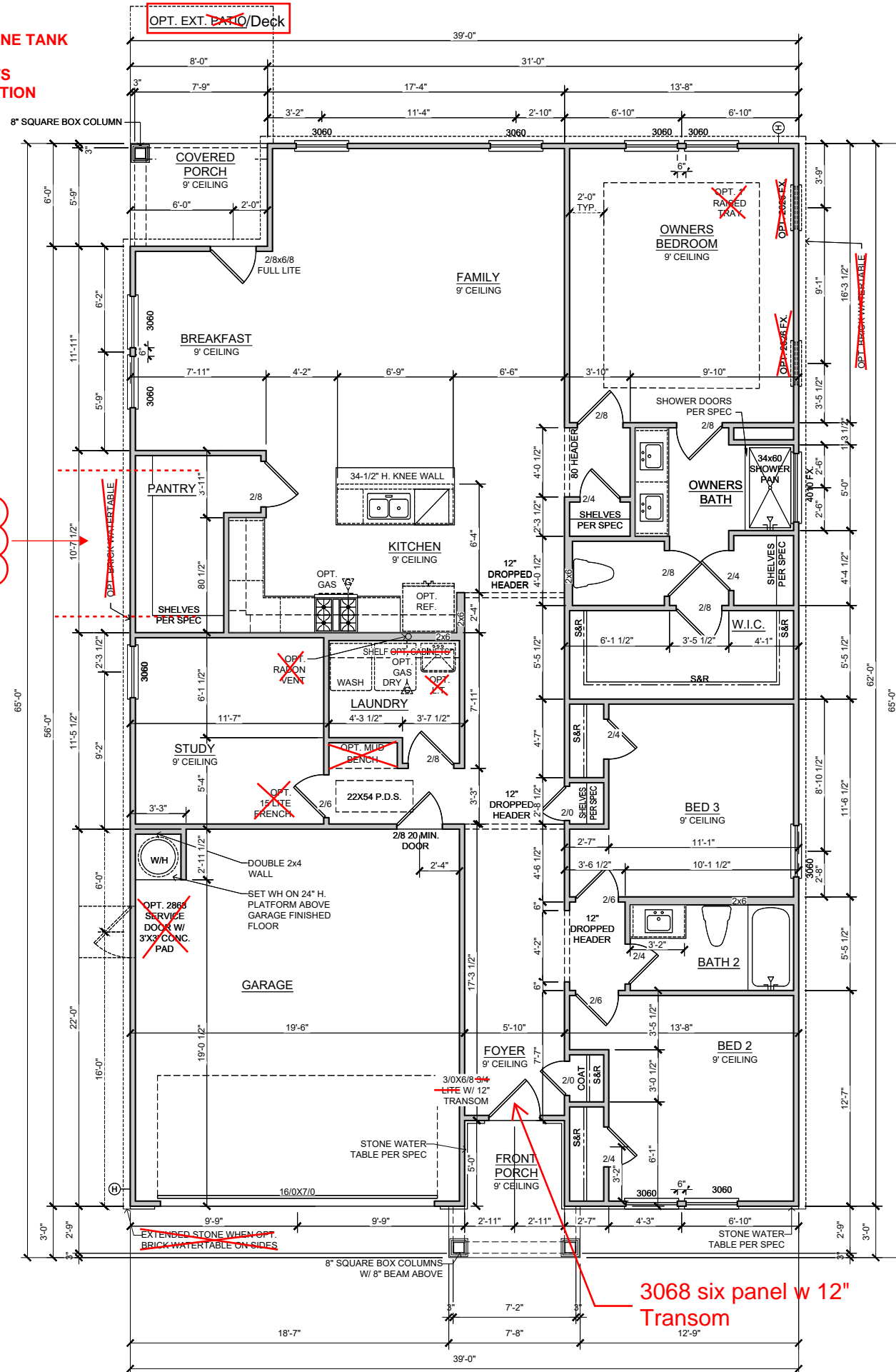
SHEET NO. A-CS

# GENERAL FRAMING NOTES

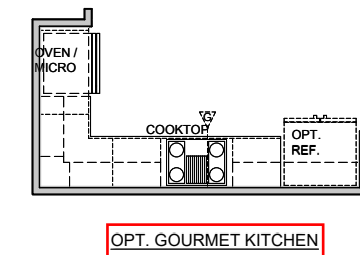
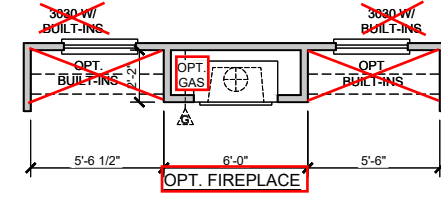
- TYPICAL EXTERIOR HEADER HEIGHT SHALL BE 8'-3" AFF AT FIRST FLOOR AND 6'-11" AFF AT SECOND FLOOR UNLESS OTHERWISE NOTED
- DOOR FRAMES NEAR CORNERS SHALL BE A MINIMUM 4 1/2" FROM CORNER. WHEN TWO DOORS ARE AT SAME CORNER, MINIMUM OF 6" FROM CORNER. DOORS AT CLOSETS SHALL BE CENTERED ON CLOSET.
- REFER TO DOOR AND WINDOW MANUFACTURER SPECIFICATIONS FOR ROUGH OPENING SIZES.
- ATTIC ACCESS SHALL BE PROVIDED AT ALL ATTIC AREAS WITH A HEIGHT GREATER THAN 30" MINIMUM. CLEAR ATTIC ACCESS SHALL BE 20"x30". PULL DOWN STAIRS AND ACCESS DOORS IN KNEE WALLS MEETING MINIMUM CRITERIA ARE ALSO ACCEPTABLE.
- GARAGE WALLS, AT A MINIMUM SHALL BE SEPARATED FROM THE LIVING SPACE BY INSTALLING 1/2" GYPSUM BOARD ON THE GARAGE SIDE OF THE WALL. WITH HABITABLE SPACE ABOVE, THE INSIDE OF ALL GARAGE WALLS REQUIRE 1/2" GWB SUPPORTING 5/8" TYPE X GWB ON CEILING.
- INTERIOR HANDRAILS SHALL NOT BE LESS THAN 34", AND NOT MORE THAN 38", AND COMPLY WITH IRC SECTION R311.7.8
- EXTERIOR GUARD RAILS SHALL BE NOT LESS THAN 36", AND COMPLY WITH IRC SECTION R312.1
- DIMENSIONS ARE ONLY TO BE READ OR CALCULATED, NOT SCALED

**NOTE; PROPANE TANK TO BE SET 5' FROM VENTS 10' FROM IGNITION**

**PROPANE TANK**



# Wellers Knoll Lot 52



3068 six panel w 12" Transom

## FIRST FLOOR PLAN "C"

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



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PLAN NAME: DAPHNE LH

SUBDIVISION: ---

LOT#: ---

REVISION NO. 6  
 BY DAN.REID  
 REVISION DATE 2023-10-17

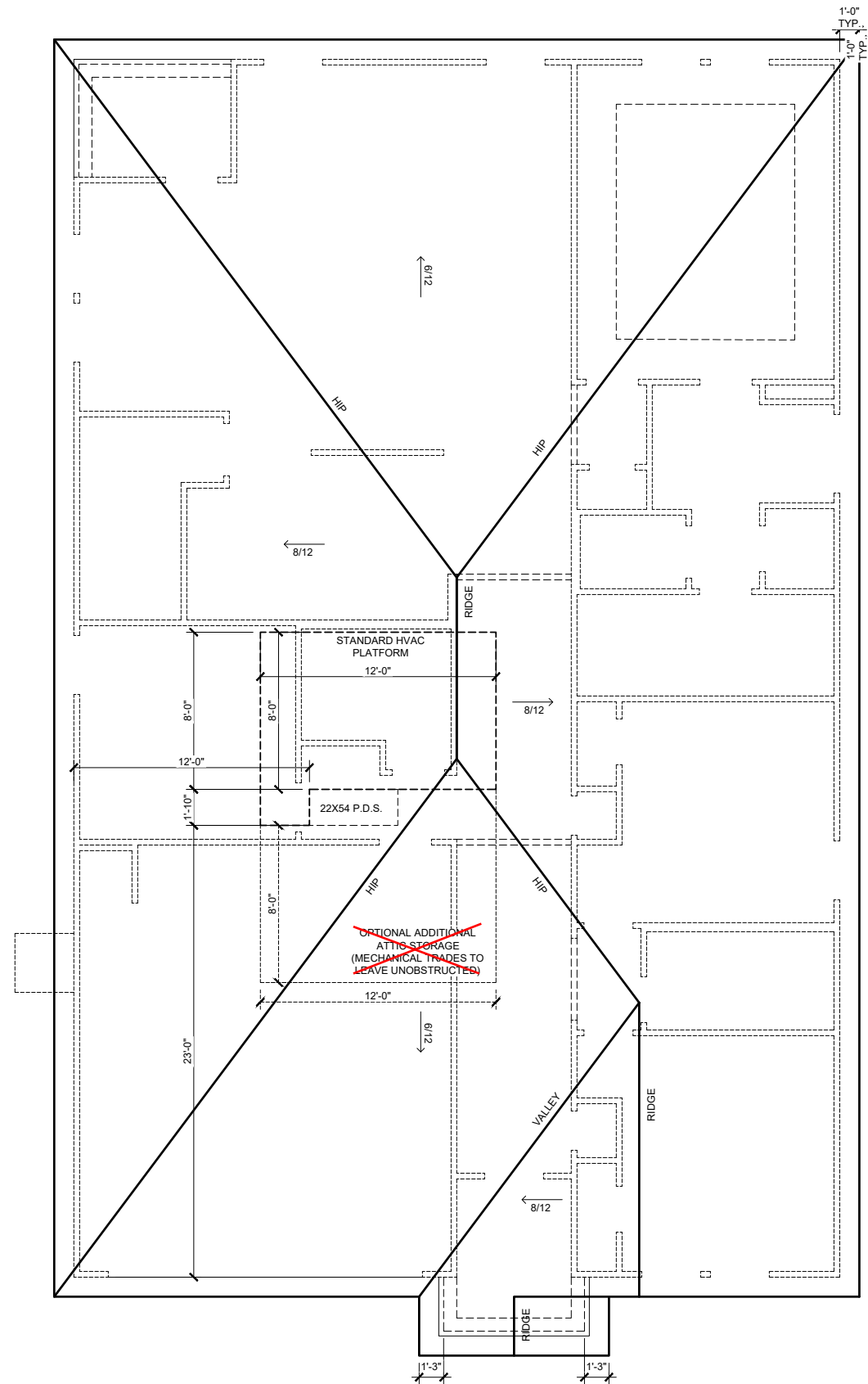
FIRST FLOOR PLAN

SHEET NO. A-1.0C

# Wellers Knoll Lot 52



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ROOF PLAN "C"

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

## ATTIC VENT SCHEDULE

MAIN HOUSE		SQ. FT. SUPPLIED	2438	AT / NEAR RIDGE			AT / NEAR EAVE	
VENT TYPE	SQ. FT. REQUIRED RANGE		PERCENT OF TOTAL SUPPLIED	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)
				0.4236	0.2778	0.125	0.1944	0.0625
RIDGE VENT	3.25 - 4.06	3.00	43.64	0	0	24.00		
SOFFIT VENTS	4.88 - 4.06	3.88	56.36				0	62.00
TOTAL (MIN)	8.13 - 8.13	6.88	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE				

\* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION

PLAN NAME: DAPHNE LH

SUBDIVISION: ---

LOT#: ---

REVISION NO. 6  
 BY DAN.REID  
 REVISION DATE 2023-10-17

ROOF PLAN

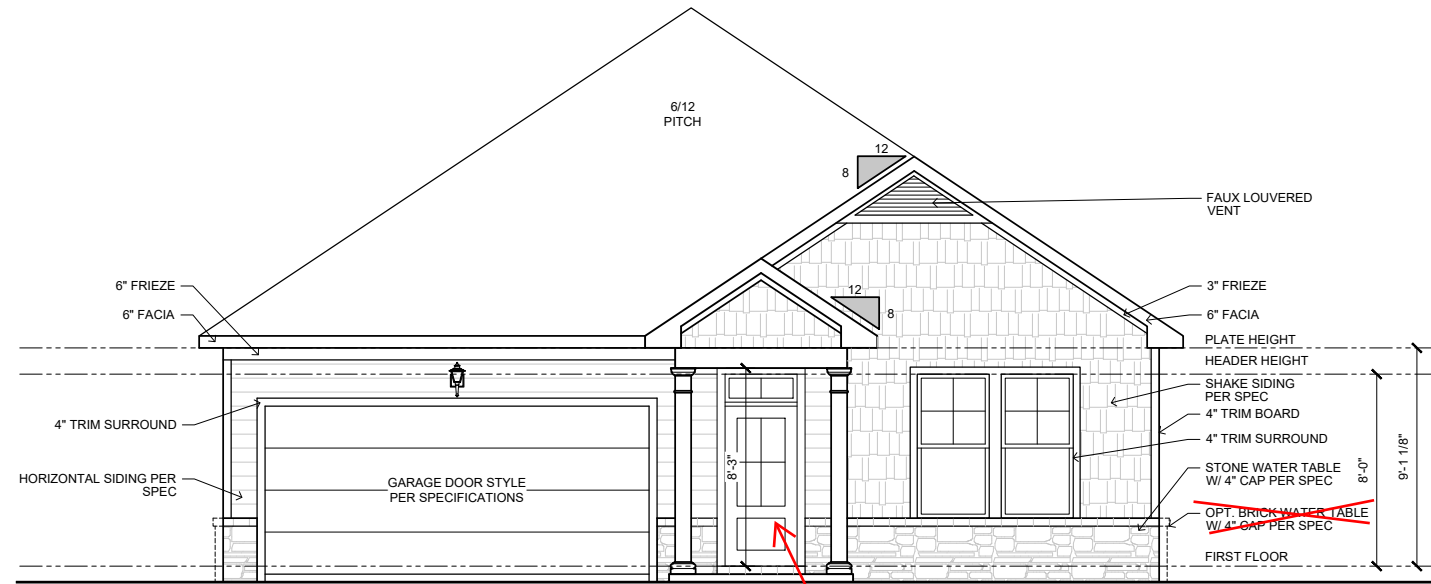
SHEET NO.

A-4.0C

# Wellers Knoll Lot 52



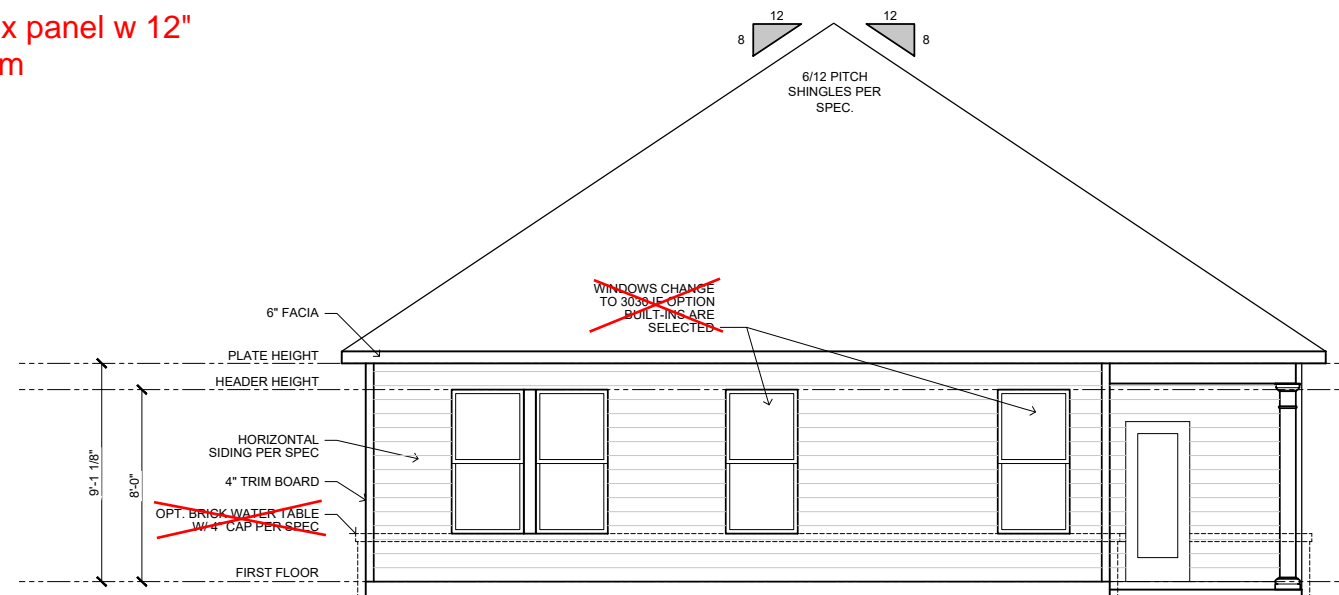
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**FRONT ELEVATION "C"**

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

3068 six panel w 12" Transom



**REAR ELEVATION "C"**

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

**GENERAL ELEVATION NOTES**

- FASCIA, FRIEZE, RAKE, AND SKIRT BOARDS TO BE 1X UNLESS OTHERWISE NOTED
- ALL OTHER TRIM TO BE 5/4 UNLESS OTHERWISE NOTED
- LAP SIDING REVEALS PER SPEC., UNLESS OTHERWISE NOTED
- ROOF COVERING TO BE SHINGLES PER SPEC., UNLESS OTHERWISE NOTED

PLAN NAME: DAPHNE LH

SUBDIVISION: ---

LOT#: ---

REVISION NO. 6  
 BY DAN.REID  
 REVISION DATE 2023-10-17

FRONT ELEVATION

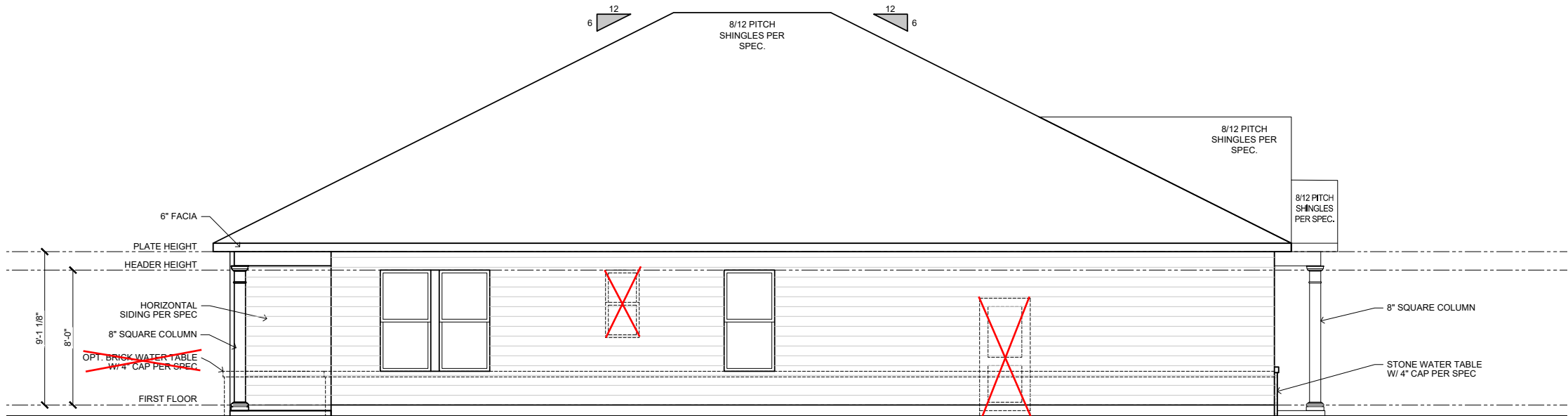
SHEET NO.

A-5.0C

# Wellers Knoll Lot 52

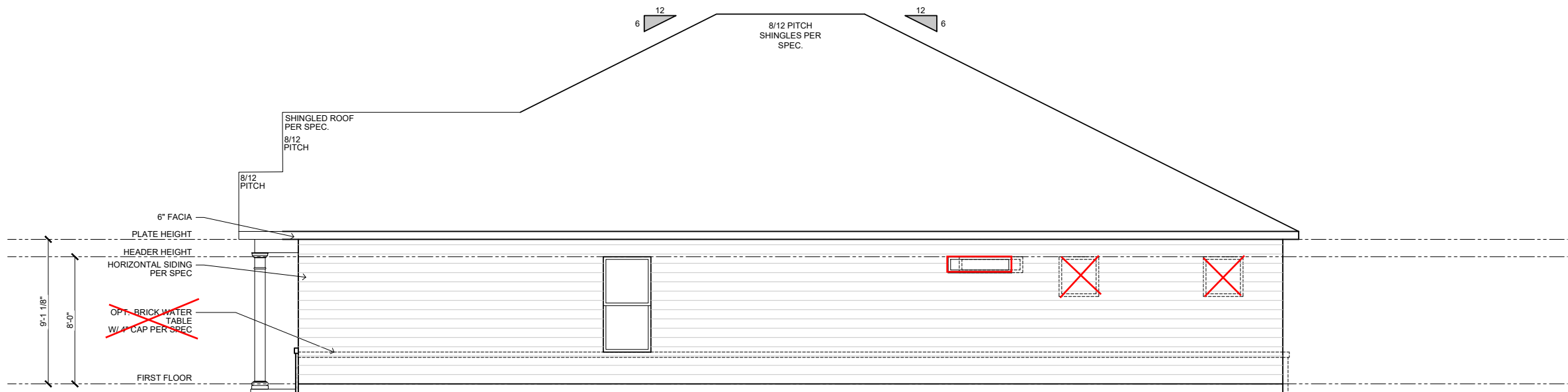


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**LEFT ELEVATION "C"**

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



**RIGHT ELEVATION "C"**

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

PLAN NAME: DAPHNE LH

SUBDIVISION: ---

LOT#: ---

REVISION NO. 6  
 BY DAN.REID  
 REVISION DATE 2023-10-17

RIGHT ELEVATION

SHEET NO.

A-5.1C

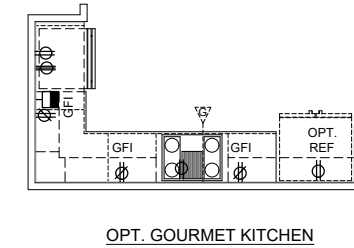
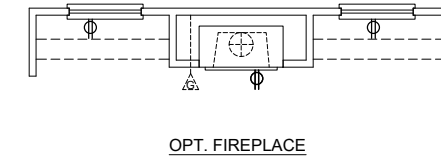
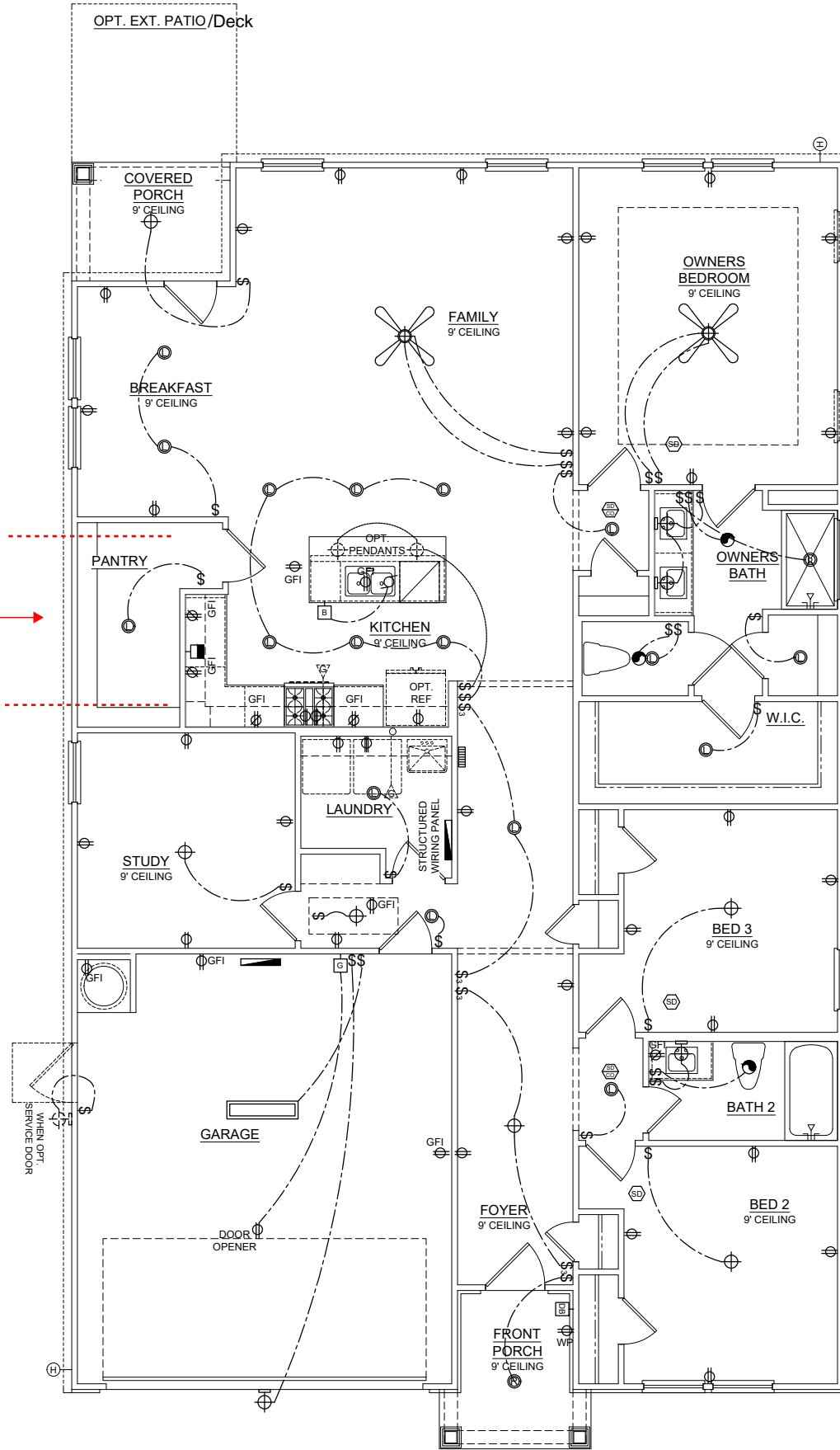
# Wellers Knoll Lot 52



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ELECTRICAL SCHEDULE	
SYMBOL	DESCRIPTION
\$	SINGLE POLE SWITCH
\$ <sub>3</sub>	3 WAY SWITCH
\$ <sub>4</sub>	4 WAY SWITCH
\$ <sub>2</sub>	WIFI SMART SWITCH
\$ <sub>2,3</sub>	3 WAY WIFI SMART SWITCH
⊕	110V OUTLET
⊕ <sub>H</sub>	110V HALF HOT OUTLET
⊕ <sub>U</sub>	110V OUTLET W/ USB
⊕ <sub>220</sub>	220V OUTLET
⊕ <sub>WC</sub>	WALL/ COUNTERTOP OUTLET
⊕ <sub>D</sub>	DEDICATED OUTLET
⊕ <sub>M</sub>	MEDIA JACK
⊕ <sub>C</sub>	CEILING MOUNT FIXTURE
⊕ <sub>W</sub>	WALL MOUNT FIXTURE
⊕ <sub>H</sub>	HANGING
⊕ <sub>D</sub>	LED DISK
⊕ <sub>R</sub>	RECESSED CAN
T	THERMOSTAT
⊕ <sub>E</sub>	EXHAUST FAN
⊕ <sub>F</sub>	FLUORESCENT
⊕ <sub>SP</sub>	SECURITY PANEL
⊕ <sub>WA</sub>	WIRELESS ACCESS POINT
⊕ <sub>GD</sub>	GARBAGE DISPOSAL
B	BUTTON
G	GARAGE DOOR OPENER
DB	DOOR BELL
DC	DOOR CHIME
SD	SMOKE DETECTOR
SCD	SMOKE & CARBON DIOXIDE DETECTOR
LVP	LOW VOLT PANEL
EM	ELECTRICAL METER
EP	ELECTRICAL PANEL
UC	UNDER CABINET LIGHT FIXTURE
FL	FLOOD LIGHT
⊕ <sub>CF</sub>	CEILING FAN W/ LIGHT
NOTES/ ABBREVIATIONS	
WP	WATER PROOF
GFI	GROUND FAULT INTERCEPTOR

**NOTE; PROPANE TANK  
 TO BE SET  
 5' FROM VENTS  
 10' FROM IGNITION**



## 1ST FLR. ELEC. PLAN "C"

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

PLAN NAME: DAPHNE LH

SUBDIVISION: ---

LOT#: ---

REVISION NO. 6  
 BY DAN.REID  
 REVISION DATE 2023-10-17

FIRST FLOOR  
 ELECTRICAL PLAN

SHEET NO.  
 E-1.0C

# Wellers Knoll Lot 52

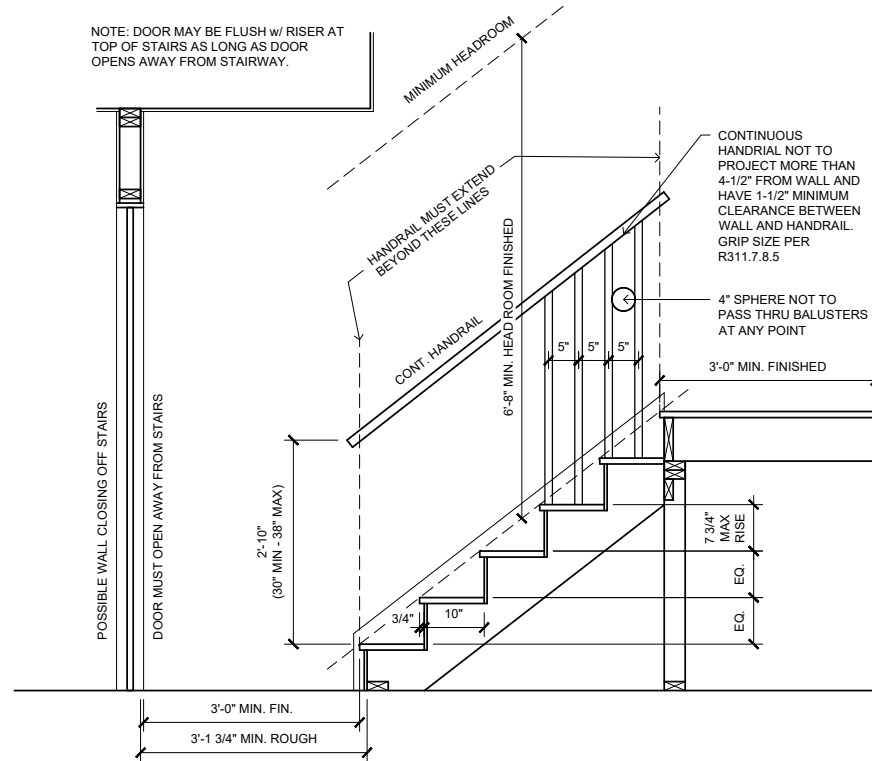


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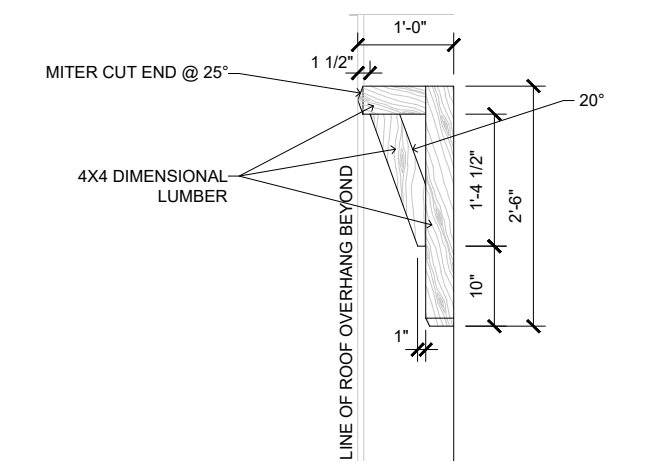
## R311.7.8.5 Grip size.

Required handrails shall be of one of the following types or provide equivalent graspability.

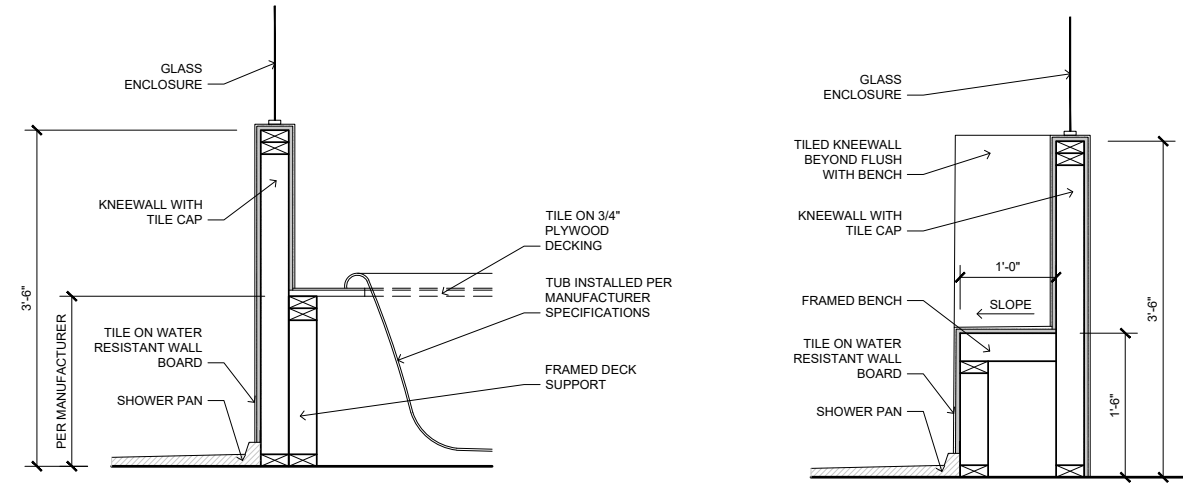
- Type I. Handrails with a circular cross section shall have an outside diameter of not less than 1 1/4 inches (32 mm) and not greater than 2 inches (51 mm). If the handrail is not circular, it shall have a perimeter of not less than 4 inches (102 mm) and not greater than 6 1/4 inches (160 mm) and a cross section of not more than 2 1/4 inches (57 mm). Edges shall have a radius of not less than 0.01 inch (0.25 mm).
- Type II. Handrails with a perimeter greater than 6 1/4 inches (160 mm) shall have a graspable finger recess area on both sides of the profile. The finger recess shall begin within 3/4 inch (19 mm) measured vertically from the tallest portion of the profile and have a depth of not less than 3/16 inch (8 mm) within 7/8 inch (22 mm) below the widest portion of the profile. This required depth shall continue for not less than 3/8 inch (10 mm) to a level that is not less than 1 3/4 inches (45 mm) below the tallest portion of the profile. The width of the handrail above the recess shall be not less than 1 1/4 inches (32 mm) and not more than 2 3/4 inches (70 mm). Edges shall have a radius of not less than 0.01 inch (0.25 mm).



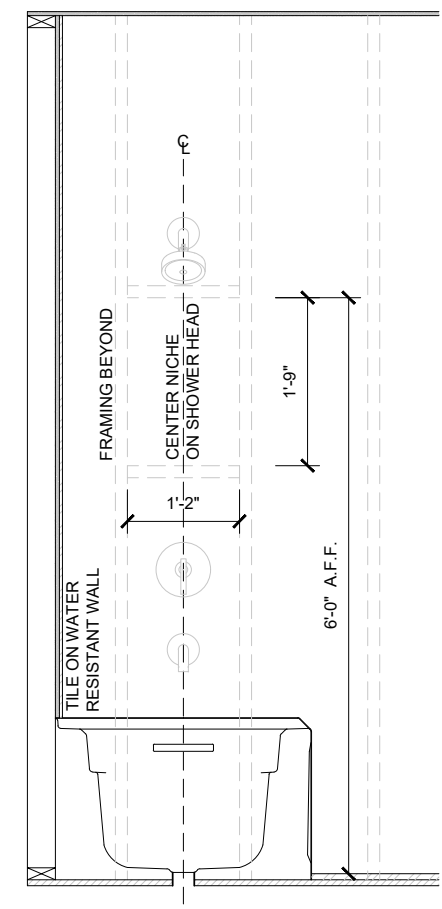
**1** INTERIOR STAIRCASE DETAIL  
 SCALE: 3/8" = 1'-0"



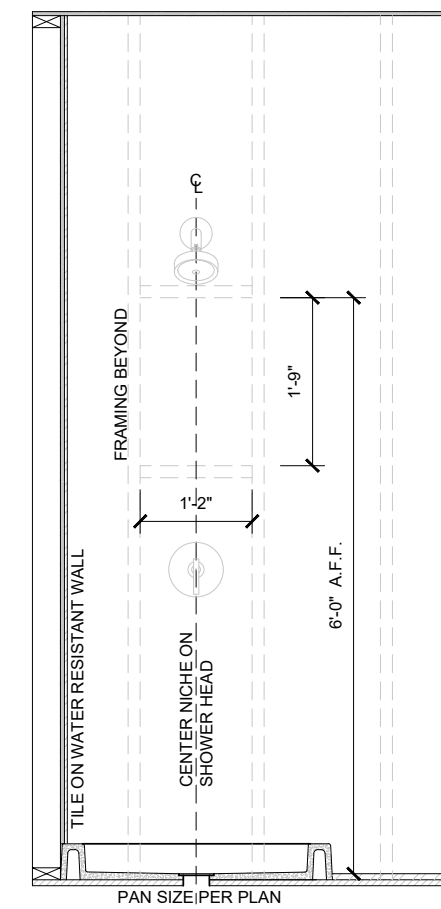
**2** CORBEL DETAIL  
 SCALE: 1/2" = 1'-0"



**3** TYP. SHOWER KNEEWALLS  
 SCALE: 1/2" = 1'-0"



**4** TYP. TUB NICHE W/ OPT. TILE WALLS  
 SCALE: 1/2" = 1'-0"



**5** TYP. SHOWER NICHE  
 SCALE: 1/2" = 1'-0"

## TYPICAL DETAILS

PLAN NAME:	---
SUBDIVISION:	---
LOT#:	---

REVISION NO.	---
BY:	MICHAEL MAY
REVISION DATE:	2023-09-19

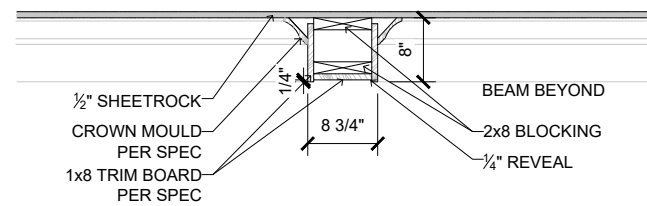
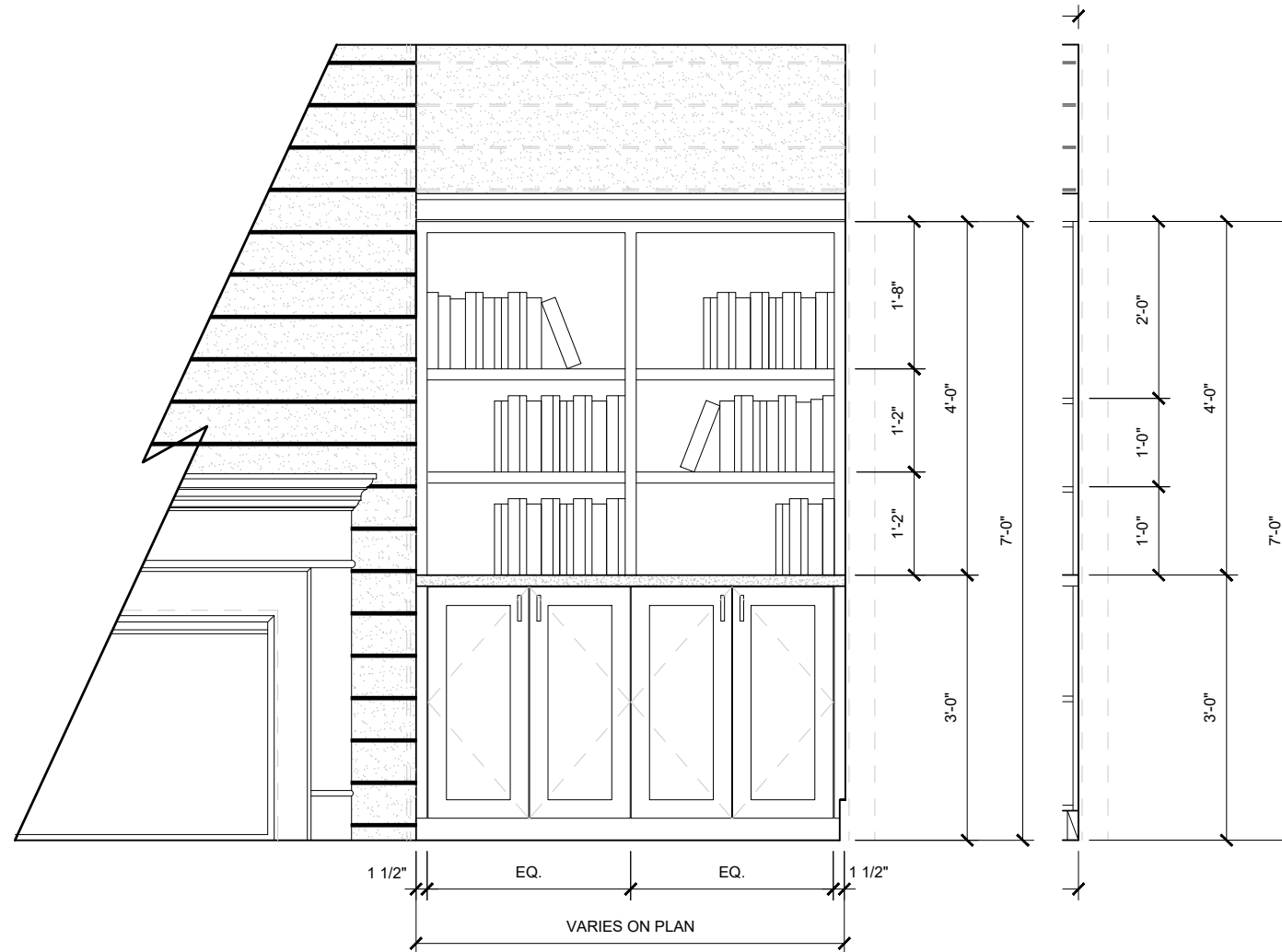
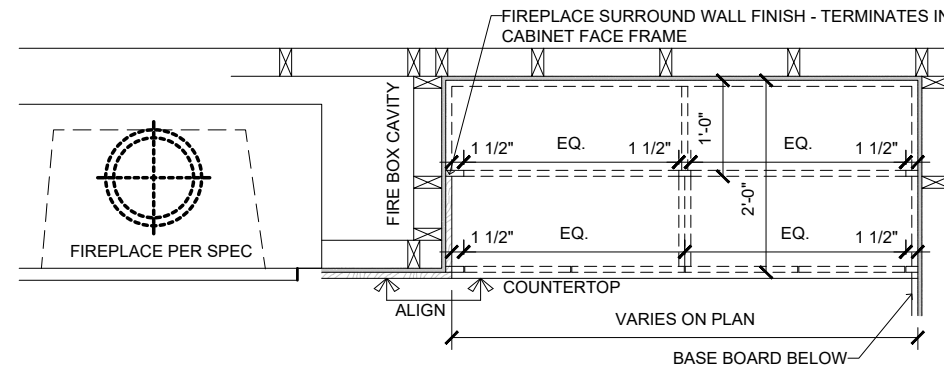
TYPICAL DETAILS  
 SHEET NO.



# Wellers Knoll Lot 52



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**2** 8x8 COFFERED CEILING DETAIL  
 SCALE: 1/2" = 1'-0"

**1** TYP. FIREPLACE BUILT-INS  
 SCALE: 1/2" = 1'-0"

## TYPICAL DETAILS

PLAN NAME: TYPICAL DETAILS  
 SUBDIVISION: ---  
 LOT#: ---

REVISION NO. ---  
 BY: MICHAEL MAY  
 REVISION DATE: 2023-09-19

TYPICAL DETAILS  
 SHEET NO. D-4

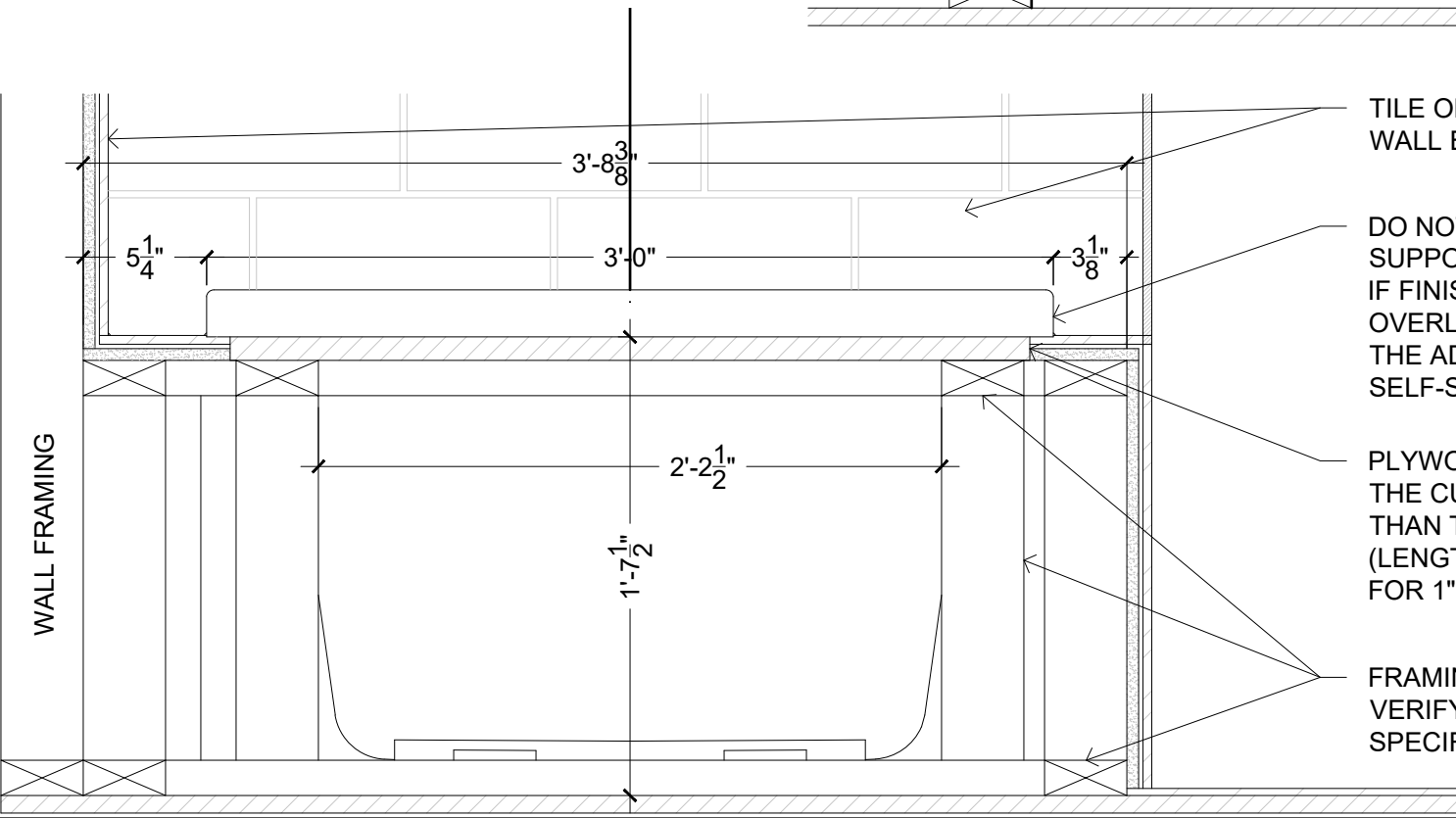
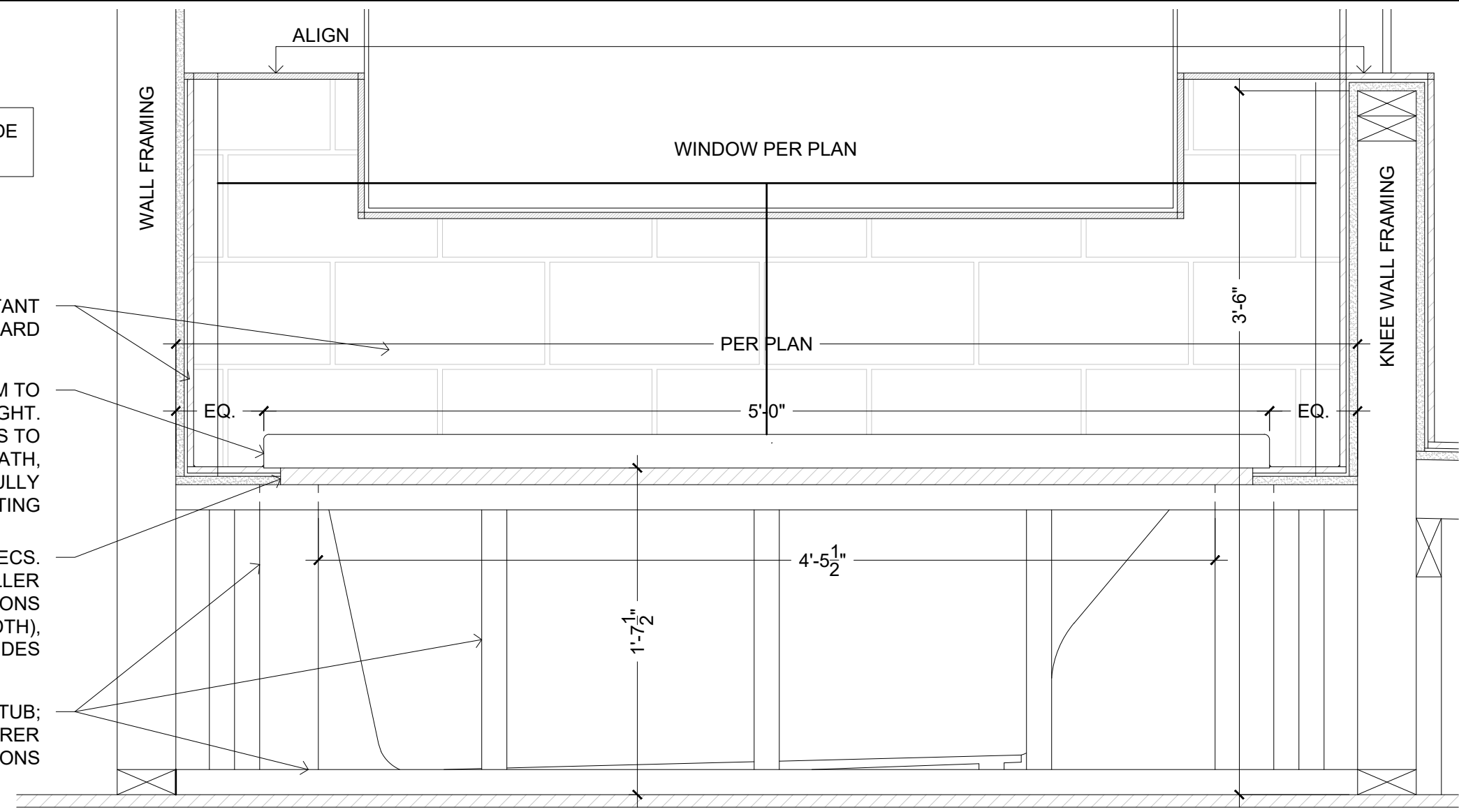


SEE MANUFACTURERS' INSTRUCTIONS AND GUIDE REGARDING SETTING THE TUB

TILE ON WATER RESISTANT WALL BOARD  
 DO NOT ALLOW TUB RIM TO SUPPORT ANY OF THE BATH WEIGHT. IF FINISHED MATERIAL IS TO OVERLAP OR CONTACT THE BATH, THE ADDED WEIGHT MUST BE FULLY SELF-SUPPORTING

PLYWOOD PER MANUFACTURER SPECS. THE CUTOUT SHOULD BE 2" SMALLER THAN THE OVERALL TUB DIMENSIONS (LENGTH & WIDTH), FOR 1" OVERHANGS ON ALL SIDES

FRAMING FOR DROP IN TUB; VERIFY WITH MANUFACTURER SPECIFICATIONS



TILE ON WATER RESISTANT WALL BOARD  
 DO NOT ALLOW TUB RIM TO SUPPORT ANY OF THE BATH WEIGHT. IF FINISHED MATERIAL IS TO OVERLAP OR CONTACT THE BATH, THE ADDED WEIGHT MUST BE FULLY SELF-SUPPORTING  
 PLYWOOD PER MANUFACTURER SPECS. THE CUTOUT SHOULD BE 2" SMALLER THAN THE OVERALL TUB DIMENSIONS (LENGTH & WIDTH), FOR 1" OVERHANGS ON ALL SIDES  
 FRAMING FOR DROP IN TUB; VERIFY WITH MANUFACTURER SPECIFICATIONS

**1** DROP IN TUB DETAIL  
 SCALE: 1 - 1/2" = 1'-0"

# Wellers Knoll Lot 52

TYPICAL DETAILS

PLAN NAME:	---
SUBDIVISION:	---
LOT#:	---

REVISION NO.	---
BY:	MICHAEL MAY
REVISION DATE:	2023-09-19

TYPICAL DETAILS
SHEET NO.
D-6



**KSE**  
**ENGINEERING**

1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951  
www.kse-eng.com (215) 804 - 4449

**Daphne Model**  
**LH**  
**RALEIGH, NORTH CAROLINA**

THESE DRAWINGS ARE TO BE USED IN CONJUNCTION WITH AND COORDINATED WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. THIS COORDINATION IS NOT THE RESPONSIBILITY OF THE STRUCTURAL ENGINEER OF RECORD (SER). SHOULD ANY DISCREPANCIES BECOME APPARENT, THE CONTRACTOR SHALL NOTIFY KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS. IT IS THE INTENT OF THE ENGINEER LISTED ON THESE DOCUMENTS THAT THESE DOCUMENTS BE ACCURATE, PROVIDING LICENSED PROFESSIONALS CLEAR INFORMATION. EVERY ATTEMPT HAS BEEN MADE TO PREVENT ERROR. THE BUILDER AND ALL SUBCONTRACTORS ARE REQUIRED TO REVIEW ALL OF THE INFORMATION CONTAINED IN THESE DOCUMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK. THE ENGINEER IS NOT RESPONSIBLE FOR ANY PLAN ERRORS, OMISSIONS, OR MISINTERPRETATIONS UNDETECTED AND NOT REPORTED TO THE ENGINEER PRIOR TO CONSTRUCTION. ALL CONSTRUCTION MUST BE IN ACCORDANCE TO THE INFORMATION FOUND IN THESE DOCUMENTS.

DESIGN SPECIFICATIONS:

DESIGN BUILDING CODE (REFERRED TO HEREIN AS "THE BUILDING CODE"):  
 • 2018 NORTH CAROLINA RESIDENTIAL CODE. WALL BRACING PER INTERNATIONAL RESIDENTIAL CODE 2015 EDITION.

DESIGN LIVE LOADS:  
 • ROOF = 20 PSF (LOAD DURATION FACTOR=1.25)  
 • UNINHABITABLE ATTICS WITH LIMITED STORAGE = 20 PSF (WHERE SPECIFIED ON PLANS)  
 • HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS = 30 PSF  
 • FLOOR = 40 PSF  
 • FLOOR (SLEEPING AREAS) = 30 PSF  
 • DECK/BALCONY = 40 PSF  
 • STAIRS = 40 PSF

DESIGN DEAD LOADS:  
 • ROOF TRUSS = 17 PSF (TC=7, BC=10)  
 • FLOOR TRUSS = 15 PSF (TC=10, BC=5)  
 • FLOOR JOIST = 10 PSF  
 • STANDARD BRICK = 40 PSF  
 • QUEEN ANNE BRICK = 25 PSF

\*NOTE: STRUCTURAL FRAMING HAS NOT BEEN DESIGNED FOR TILE, GRANITE, MARBLE OR OTHER MATERIALS HEAVIER THAN THE ABOVE LOADING UNLESS SPECIFICALLY NOTED ON PLANS.\*

DESIGN WIND LOADS:  
 • ULTIMATE WIND SPEED = 120 MPH  
 • EXPOSURE CATEGORY = B

ASSUMED SOIL BEARING CAPACITY = 2000 PSF

ASSUMED LATERAL SOIL PRESSURE = 45 PCF

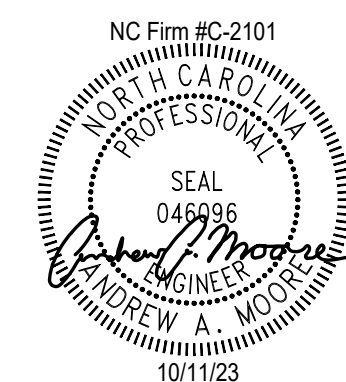
FROST DEPTH = 12" MINIMUM

SEISMIC DESIGN CATEGORY = B

ENGINEERED LUMBER SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:

- TJI 210 SERIES (SERIES AND SPACING PER PLANS)
- LSL: E=1,550,000 PSI, F<sub>b</sub>=2,325 PSI, F<sub>v</sub>=310 PSI, F<sub>c</sub>=900 PSI
- LVL: E=2,000,000 PSI, F<sub>b</sub>=2,600 PSI, F<sub>v</sub>=285 PSI, F<sub>c</sub>=750 PSI
- PSL: E=2,000,000 PSI, F<sub>b</sub>=2,900 PSI, F<sub>v</sub>=290 PSI, F<sub>c</sub>=625 PSI

THIS PLAN HAS BEEN DESIGNED PER THE 2018 EDITION OF THE NC RESIDENTIAL CODE. WHERE FRAMING, FOUNDATION, OR OTHER STRUCTURAL ITEMS DO NOT COMPLY WITH THE PRESCRIPTIVE METHODS OF THE CODE, THOSE ITEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE PER NCRC R301.1.3.




**KSE**  
**ENGINEERING**

1900 AM DRIVE, SUITE 201, QUAKERTOWN, PA 18951  
www.kse-eng.com (215) 804 - 4449



**DAVIDSON**  
**HOMES**

Cover Sheet

Daphne Model – LH  
Up To 120 M.P.H.  
Raleigh, North Carolina

Project #: 214-23001  
 Designed By: \_\_\_\_\_  
 Checked By: \_\_\_\_\_  
 Issue Date: 6/20/23  
 Re-Issue: 10/11/23  
 Scale: 1/8"=1'-0" @ 11x17  
 1/4"=1'-0" @ 22x34

S-0



**GENERAL STRUCTURAL NOTES:**

- THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT. THE SER BEARS THE RESPONSIBILITY OF THE PRIMARY STRUCTURAL ELEMENTS AND THE PERFORMANCE OF THIS STRUCTURE. NO OTHER PARTY MAY REVISE, ALTER, OR DELETE ANY STRUCTURAL ASPECTS OF THESE CONSTRUCTION DOCUMENTS WITHOUT WRITTEN CONSENT OF KSE ENGINEERING, P.C. OR THE SER. FOR THE PURPOSES OF THESE CONSTRUCTION DOCUMENTS, THE SER AND KSE ENGINEERING SHALL BE CONSIDERED THE SAME ENTITY.
- THE STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
- THE SER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CONFORM TO THE CONTRACT DOCUMENTS, SHOULD ANY NON-CONFORMITIES OCCUR.
- THE SER DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL LAYOUT INCLUDING ROOF GEOMETRY. THE SER ASSUMES NO LIABILITY FOR CHANGES MADE TO THESE PLANS BY OTHERS, OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THE PLANS. THE SER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION IF ANY DISCREPANCIES ARE NOTED ON THE PLANS.
- ANY STRUCTURAL ELEMENTS OR DETAILS NOT FULLY DEVELOPED ON THE CONSTRUCTION DRAWINGS SHALL BE COMPLETED UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER. THESE SHOP DRAWINGS SHALL BE SUBMITTED TO KSE ENGINEERING FOR REVIEW BEFORE ANY CONSTRUCTION BEGINS. THE SHOP DRAWINGS WILL BE REVIEWED FOR OVERALL COMPLIANCE AS IT RELATES TO THE STRUCTURAL DESIGN OF THIS PROJECT. VERIFICATION OF THE SHOP DRAWINGS FOR DIMENSIONS, OR FOR ACTUAL FIELD CONDITIONS, IS NOT THE RESPONSIBILITY OF THE SER OR KSE ENGINEERING, P.C.
- VERIFICATION OF ASSUMED FIELD CONDITIONS IS NOT THE RESPONSIBILITY OF THE SER. THE CONTRACTOR SHALL VERIFY THE FIELD CONDITIONS FOR ACCURACY AND REPORT ANY DISCREPANCIES TO KSE ENGINEERING, P.C. BEFORE CONSTRUCTION BEGINS.
- THE SER IS NOT RESPONSIBLE FOR ANY SECONDARY STRUCTURAL ELEMENTS OR NON-STRUCTURAL ELEMENTS, EXCEPT FOR THE ELEMENTS SPECIFICALLY NOTED ON THE STRUCTURAL DRAWINGS.
- THIS STRUCTURE AND ALL CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE SECTIONS OF THE BUILDING CODE AND ANY LOCAL CODES OR RESTRICTIONS.
- DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. ALL DIMENSIONS ARE TO FACE OF STUD OR TO FACE OF FRAMING UNLESS OTHERWISE NOTED.
- PROVIDE MOISTURE PROTECTION AND FLASHING PER ARCHITECTURAL DETAILS.

**FOUNDATIONS:**

- FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE BUILDING CODE.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE SUITABILITY OF THE SITE SOIL CONDITIONS AT THE TIME OF CONSTRUCTION. THE BUILDER SHALL FURNISH ANY AND ALL REPORTS RECEIVED FROM THE GEOTECHNICAL ENGINEER ON THE STUDY OF THE PROPOSED SITE TO THE DESIGNER, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST MASONRY WALLS TO BE AS SPECIFIED IN THE BUILDING CODE.
- THE SER HAS NOT PERFORMED A SUBSURFACE INVESTIGATION. VERIFICATION OF THE ASSUMED VALUE IS THE RESPONSIBILITY OF THE OWNER OR THE CONTRACTOR. SHOULD ANY ADVERSE SOIL CONDITION BE ENCOUNTERED, THE SER MUST BE CONTACTED BEFORE PROCEEDING.
- THE BOTTOM OF ALL FOOTINGS SHALL EXTEND BELOW THE FROST LINE FOR THE REGION IN WHICH THE STRUCTURE IS TO BE CONSTRUCTED, BUT NOT LESS THAN A MINIMUM OF 12" BELOW GRADE. ALL FOOTINGS TO HAVE A MINIMUM PROJECTION OF 2" ON EACH SIDE OF FOUNDATION WALLS. MAXIMUM FOOTING PROJECTION SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
- WOOD SILL PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH ½" ANCHOR BOLTS WITH MINIMUM 7" EMBEDMENT, SPACED A MAXIMUM OF 6'-0" O.C. INSTALL MINIMUM 2 ANCHOR BOLTS PER SECTION, 12" MAXIMUM FROM CORNERS. ½" DIAMETER x 8" LONG SIMPSON TITEN HD OR USP SCREW-BOLT+ SCREWS MAY BE SUBSTITUTED ON A 1 FOR 1 BASIS.
- ANY FILL SHALL BE PLACED UNDER THE DIRECTION OR RECOMMENDATION OF A LICENSED PROFESSIONAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% MAXIMUM DRY DENSITY.
- EXCAVATIONS OF FOOTINGS SHALL BE LINED TEMPORARILY WITH A 6 MIL POLYETHYLENE MEMBRANE IF PLACEMENT OF CONCRETE DOES NOT OCCUR WITHIN 24 HOURS OF EXCAVATION.
- NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL.
- PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO OUTLET AS REQUIRED BY SITE CONDITIONS (SEE ARCHITECTURAL PLANS AND DETAILS).
- NONE OF THE FOUNDATION DESIGNS IN THESE DOCUMENTS ARE SUITABLE FOR INSTALLATION IN SHRINK/SWELL CONDITIONS. REFER TO GEOTECHNICAL ENGINEER FOR APPROPRIATE DESIGN.
- LOTS SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST TEN FEET.
- CRAWL SPACE TO BE GRADED LEVEL AND CLEAR OF ALL DEBRIS.
- PROVIDE MINIMUM 6 MIL APPROVED VAPOR BARRIER. ALL JOINTS TO BE LAPPED MINIMUM 12" AND SEALED.

**CONCRETE & REINFORCING**

- CONCRETE DESIGN BASED ON ACI 318 AND ACI 318.1 OR ACI 332. CONCRETE SHALL HAVE A NORMAL WEIGHT AGGREGATE AND A MINIMUM COMPRESSIVE STRENGTH (f'c) = 3,000 PSI MINIMUM AT 28 DAYS PER CODE (VARIES W/ WEATHER), UNLESS OTHERWISE NOTED ON THE PLAN.
- CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 318: "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301: "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".
- AIR ENTRAINMENT CONCRETE MUST BE USED FOR ALL STRUCTURAL ELEMENTS EXPOSED TO FREEZE/THAW CYCLES AND DEICING CHEMICALS. AIR ENTRAINMENT AMOUNTS (IN PERCENT) SHALL BE WITHIN -1% TO +2% OF 5% FOR FOOTINGS AND EXTERIOR SLABS.
- NO ADMIXTURES SHALL BE ADDED TO ANY STRUCTURAL CONCRETE WITHOUT WRITTEN PERMISSION OF THE SER. WATER ADDED TO CONCRETE ON SITE SHALL NOT EXCEED THAT ALLOWED BY THE MIX DESIGN.
- CONCRETE SLABS-ON-GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R: "GUIDE FOR CONCRETE SLAB AND SLAB CONSTRUCTION".
- CONTROL OR SAW CUT JOINTS (CUT OR TOOLED) SHALL BE SPACED IN INTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 15'-0" O.C. AND IN EXTERIOR SLABS-ON-GRADE AT A MAXIMUM OF 10'-0" UNLESS OTHERWISE NOTED. CARE SHALL BE TAKEN TO AVOID RE-ENTRANT CORNERS.
- CONTROL OR SAW CUT JOINTS SHALL BE PRODUCED USING CONVENTIONAL CUT OR TOOLED PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED.
- ALL WELDED WIRE FABRIC (W.W.F.) FOR CONCRETE SLABS-ON-GRADE SHALL BE PLACED AT MID-DEPTH OF SLAB. THE W.W.F. SHALL BE SECURELY SUPPORTED DURING THE CONCRETE POUR. FIBROUS CONCRETE REINFORCEMENT, OR POLYPROPYLENE FIBERS MAY BE USED IN LIEU OF W.W.F. APPLICATION OF POLYPROPYLENE FIBERS PER CUBIC YARD OF CONCRETE SHALL BE PER MANUFACTURER AND COMPLY WITH ASTM C1116, ANY LOCAL BUILDING CODE REQUIREMENTS AND SHALL MEET OR EXCEED CURRENT INDUSTRY STANDARD.
- POLYPROPYLENE REINFORCING TO BE 100% VIRGIN, CONTAINING NO REPROCESSED OLEFIN MATERIALS AND SPECIFICALLY MANUFACTURED FOR USE AS CONCRETE SECONDARY REINFORCEMENT.
- STEEL REINFORCING BARS SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60.
- DETAILING, FABRICATION, AND PLACEMENT OF REINFORCING STEEL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ACI 315: "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES".
- HORIZONTAL FOOTING AND WALL REINFORCEMENT SHALL BE CONTINUOUS AND SHALL HAVE 90° BENDS, OR CORNER BARS WITH THE SAME SIZE/SPACING AS THE HORIZONTAL REINFORCEMENT.
- PROVIDE REINFORCEMENT LAP AS NOTED BELOW, UNLESS NOTED OTHERWISE:  
#4 BARS - 30" LENGTH  
#5 BARS - 38" LENGTH  
#6 BARS - 45" LENGTH
- WHERE REINFORCING DOWELS ARE REQUIRED, THEY SHALL BE EQUIVALENT IN SIZE AND SPACING TO THE VERTICAL REINFORCEMENT. THE DOWEL SHALL EXTEND 48 BAR DIAMETERS VERTICALLY AND 20 BAR DIAMETERS INTO THE FOOTING. SEE KSE FOUNDATION DETAILS.
- WHERE FOOTING BOTTOMS ARE TO BE STEPPED AT SLOPING GRADE CONDITIONS, PROVIDE CONTINUOUS REINFORCING WITH Z BARS (TO MATCH FOOTING REINFORCING) AS REQUIRED.
- BAR SUPPORT ACCESSORIES SHALL BE PROVIDED IN ACCORDANCE WITH THE LATEST ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, EXCEPT THAT REINFORCING SHALL BE CHAIRED ON THE BOTTOM AND/OR THE SIDES ON BOLSTERS SPACED NOT MORE THAN 4 FEET ON CENTER. NO ROCKS, CMU, CLAY TILE, OR BRICK SHALL BE USED TO SUPPORT REINFORCING.
- FOR GRADE SUPPORTED SLABS, SLAB REINFORCING SHALL BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS SHALL BE SPACED A MAXIMUM OF 4'-0" O.C. BOTH WAYS IN STRAIGHT LINES ON THE MESH GRID.

**MASONRY**

- ALL MASONRY SHALL CONFORM TO ASTM C-90, F'm=1500 PSI. ALL BRICK SHALL CONFORM TO ASTM C-216, F'm=1500 PSI. ALL MORTAR SHALL BE TYPE 'S' (TYPE 'M' BELOW GRADE) AND CONFORM TO ASTM C-270. COARSE GROUT SHALL CONFORM TO ASTM C-476 WITH A MAXIMUM AGGREGATE SIZE OF ¾" AND A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES" ACI 530/ASCE 5/TMS 402 AND "SPECIFICATIONS FOR MASONRY STRUCTURES" ACI 530.1/ ASCE 6/TMS 602.
- THE UNSUPPORTED HEIGHT OF SOLID MASONRY PIERS SHALL NOT EXCEED TEN TIMES THEIR LEAST DIMENSION. UNFILLED HOLLOW PIERS MAY BE USED IF THE UNSUPPORTED HEIGHT IS NOT MORE THAN FOUR TIMES THEIR LEAST DIMENSION.
- EACH CRAWL SPACE PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING AND EACH GIRDER SHALL BEAR IN THE MIDDLE THIRD OF THE PIERS. PILASTERS TO BE BONDED TO PERIMETER FOUNDATION WALL.
- TOP COURSE OF MASONRY SHALL BE GROUTED SOLID.
- HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C., UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- SPliced WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AND CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT WITHIN THE 6". LAP WITH STANDARD 'T' AND 'L' SHAPED PIECES AT INTERSECTIONS AND CORNERS.

**WOOD FRAMING:**

- SOLID SAWN WOOD FRAMING MEMBERS SHALL CONFORM TO THE SPECIFICATIONS LISTED IN THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION": (NDS). UNLESS OTHERWISE NOTED, ALL WOOD FRAMING MEMBERS ARE DESIGNED TO BE:  
SPRUCE-PINE-FIR (SPF) WITH THE FOLLOWING MINIMUM DESIGN VALUES:  
E=1,400,000 PSI, F<sub>b</sub>=875 PSI, F<sub>v</sub>=135 PSI  
1.1. FRAMING: SPF #2.  
1.2. PLATES: SPF #2.  
1.3. STUDS: SPF STUD GRADE.
- WALL STUD SPACING, (MAXIMUM 10' NOMINAL PLATE HEIGHT):  
1 & 2 STORY EXTERIOR AND INTERIOR BEARING:  
2x4 @ 16" O.C. OR 2x6 @ 24" O.C., U.N.O.  
BOTTOM OF 3 STORIES EXTERIOR AND INTERIOR BEARING:  
2x6 @ 16" O.C., U.N.O.  
INTERIOR NON-BEARING:  
2x @ 24" O.C., U.N.O.
- ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED SOUTHERN YELLOW PINE #2 OR BETTER.
- ANCHOR SILL PLATES IN ACCORDANCE W/ GENERAL STRUCTURAL NOTES.
- ALL BEAMS SPECIFIED ARE MINIMUM SIZES ONLY. LARGER MEMBERS MAY BE SUBSTITUTED AS NEEDED FOR EASE OF CONSTRUCTION.
- NAILS SHALL BE COMMON WIRE NAILS UNLESS OTHERWISE NOTED.
- BOLT HOLES AND LEAD HOLES FOR LAG SCREWS SHALL BE IN ACCORDANCE WITH NDS SPECIFICATIONS.
- INDIVIDUAL STUDS FORMING A COLUMN SHALL BE ATTACHED WITH (2) ROWS 10d NAILS @ 6" O.C. STAGGERED. THE STUD COLUMN SHALL BE FULLY BLOCKED AT ALL FLOOR LEVELS TO ENSURE PROPER LOAD TRANSFER. WALL SHEATHING SHALL BE NAILED TO EDGE OF EACH STUD.
- FACE NAIL ALL MULTI-PLY BEAMS AND HEADERS WITH (2) ROWS 16d COMMON NAILS @ 16" O.C., STAGGERED, OR PER MANUFACTURER'S SPECIFICATIONS FOR ENGINEERED LUMBER. APPLY NAILING FROM BOTH FACES FOR (3) OR MORE PLYS.
- FASTEN 4-PLY BEAMS WITH (1) ½" DIAMETER THROUGH BOLT W/ NUTS AND WASHERS AT 12" O.C. STAGGERED TOP AND BOTTOM, 1½" MINIMUM EDGE DISTANCE. (UNLESS OTHERWISE NOTED)
- ALL BEAMS AND HEADERS SHALL HAVE (1)2x KING STUD & (1)2x KING STUD UNLESS OTHERWISE NOTED. THE NUMBER OF STUDS INDICATED ON PLANS ARE THE TOTAL NUMBER OF JACK STUDS REQUIRED, UNLESS OTHERWISE NOTED.
- PROVIDE KING STUDS AT EACH END OF HEADERS AS NOTED BELOW.  
(1) STUD UP TO 6' OPENING  
(2) STUDS UP TO 8' OPENING  
(3) STUDS UP TO 9' OPENING
- ALL BEAMS TO BE CONTINUOUSLY SUPPORTED Laterally AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF TWO STUDS, UNLESS OTHERWISE NOTED. ALL BEAM SPLICES SHALL OCCUR OVER SUPPORTS.
- SOLID BLOCKING TO BE PROVIDED AT ALL POINT LOADS THROUGH FLOOR LEVELS TO THE FOUNDATION OR TO OTHER STRUCTURAL COMPONENTS.
- ALL LUMBER SPECIFIED ON DRAWINGS IS INTENDED FOR DRY USE ONLY (MOISTURE CONTENT <19%) UNLESS OTHERWISE NOTED.
- ALL WATERPROOFING AND FIRE SAFETY SYSTEMS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE DESIGNED AND DETAILED BY OTHERS.
- ANY WOOD FRAME INTERIOR BEARING WALL STUDS THAT HAVE HOLES IN THE CENTER OF THE STUD UP TO 1" DIAMETER SHALL HAVE STUD PROTECTION SHIELDS. ALL HOLES OVER 1" IN DIAMETER FOR PLUMBING LINES, ETC. SHALL BE REPAIRED WITH SIMPSON HSS2 OR USP STS1 STUD SHOES, TYPICAL, UNLESS OTHERWISE NOTED.
- BEARING WALLS SHALL BE SHEATHED ON NOT LESS THAN ONE SIDE WITH OSB OR GYPSUM BOARD. BRIDGING SHALL BE INSTALLED NOT GREATER THAN 4 FEET APART MEASURED VERTICALLY FROM EITHER END OF THE STUD IN LIEU OF SHEATHING.
- DIAGONAL BRACING SHALL BE INSTALLED AT EACH END OF BASEMENT BEARING WALLS AND NOT MORE THAN 20' ON CENTER.

**EXTERIOR WOOD FRAMED DECKS:**

- DECKS ARE TO BE FRAMED IN ACCORDANCE WITH APPLICABLE BUILDING CODES AND AS REFERENCED ON THE STRUCTURAL PLANS, EITHER THROUGH CODE REFERENCES OR CONSTRUCTION DETAILS.
- PRESERVATIVE TREATED WOOD FRAMING TO BE SOUTHERN YELLOW PINE #2 OR BETTER.
- GUARD RAILS REQUIRED AT DECKS. DESIGN BY OTHERS TO MEET MINIMUM CODE REQUIREMENTS.
- PROVIDE DECK LATERAL LOAD AND BRACING CONNECTIONS PER BUILDING CODE.

**RAFTER FRAMED ROOF CONSTRUCTION:**

- PROVIDE 2x4x4'-0" RAFTER TIES AT 48" O.C.
- RAFTERS SHALL BE SUPPORTED BY PURLINS AND PURLIN BRACES AS SHOWN ON THE PLAN. PURLIN BRACES SHALL NOT BEAR ON ANY CEILING JOIST, STRONGBACK OR HEADER UNLESS SPECIFICALLY SHOWN ON PLAN. RAFTERS MAY BE SPLICED AT PURLIN LOCATIONS.
- CEILING JOISTS SHALL HAVE LATERAL SUPPORT W/ 1x4 FLAT BRACING ON TOP EDGE OF JOIST AT LOOSE JOIST ENDS (WHERE JOISTS NOT FASTENED TO RAFTERS) OR FULL DEPTH BLOCKING. FASTEN END OF BRACING TO RAFTER OR CABLE END FRAMING.
- FASTEN RAFTER AND CEILING JOIST WITH (6) 12d NAILS UNLESS OTHERWISE NOTED.
- PROVIDE VERTICAL 2x6 STRONGBACKS AT CEILING JOISTS @ 8'-0" O.C. TIE STRONGBACK ENDS TO GABLE STUDS OR RAFTERS WHERE POSSIBLE. PROVIDE BLOCKING BETWEEN TOP PLATES AND STRONGBACKS. PROVIDE 2x4 FLAT FASTENED TO EACH JOIST WITH (2) 12d NAILS. FASTEN STRONGBACK TO 2x4 FLAT WITH 12d NAILS @ 12" O.C. AND FASTENED TO EACH JOIST WITH (1) 12d TOENAIL.

**WOOD TRUSSES (FLOOR & ROOF):**

- THE WOOD TRUSS MANUFACTURER/FABRICATOR IS RESPONSIBLE FOR THE DESIGN OF THE WOOD TRUSSES. SUBMIT SEALED SHOP DRAWINGS AND SUPPORTING CALCULATIONS TO THE SER FOR REVIEW PRIOR TO FABRICATION. THE SER SHALL HAVE A MINIMUM OF (5) DAYS FOR REVIEW. THE REVIEW BY THE SER SHALL BE FOR OVERALL COMPLIANCE OF THE DESIGN DOCUMENTS. THE SER SHALL ASSUME NO RESPONSIBILITY FOR THE CORRECTNESS OF THE STRUCTURAL DESIGN FOR THE WOOD TRUSSES.
- THE WOOD TRUSSES SHALL BE DESIGNED FOR ALL REQUIRED LOADINGS AS SPECIFIED IN THE LOCAL BUILDING CODE, THE ASCE STANDARD "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES." (ASCE 7), AND THE LOADING REQUIREMENTS SHOWN ON THESE SPECIFICATIONS. THE TRUSS DRAWINGS SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION DOCUMENTS AND PROVISIONS PROVIDED FOR LOADS SHOWN ON THESE DRAWINGS INCLUDING BUT NOT LIMITED TO HVAC EQUIPMENT, PIPING, AND ARCHITECTURAL FIXTURES ATTACHED TO THE TRUSSES.
- THE TRUSSES SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/TPI 1: "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION".
- THE TRUSS MANUFACTURER SHALL PROVIDE ADEQUATE BRACING INFORMATION IN ACCORDANCE WITH "BUILDING COMPONENT SAFETY INFORMATION GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, RESTRAINING & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES" (BCSI). THIS BRACING, BOTH TEMPORARY AND PERMANENT, SHALL BE SHOWN ON THE SHOP DRAWINGS. ALSO, THE SHOP DRAWINGS SHALL SHOW THE REQUIRED ATTACHMENTS FOR THE TRUSSES.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY BRACING AND SHORING FOR THE FLOOR AND ROOF TRUSSES AS REQUIRED DURING CONSTRUCTION. AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE LATEST BCSI. THE CONTRACTOR SHALL KEEP A COPY OF THE BCSI SUMMARY SHEETS ON SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL PERMANENT TRUSS BRACING SHOWN IN THE STRUCTURAL DRAWINGS AND IN THE TRUSS DESIGNS. ALL CONTINUOUS LATERAL BRACING OF WEBS REQUIRES BRACES. REFER TO BCSI SUMMARY SHEET B3 FOR TYPES OF DIAGONAL BRACES TO PROVIDE AT EACH CONTINUOUS LATERAL BRACE LINE. SUCH DIAGONAL BRACES SHALL NOT BE SPACED MORE THAN 20 FEET O.C. DIAGONAL BRACES SHALL BE FASTENED TO EACH TRUSS WEB WITH A MINIMUM OF TWO 10d FACE NAILS. WHERE CONTINUOUS LATERAL BRACING CANNOT BE INSTALLED, DUE TO A MINIMUM OF THREE ADJACENT TRUSSES NOT BEING IDENTICAL, THE CONTRACTOR SHALL COORDINATE WITH THE TRUSS SPECIALTY ENGINEER/MANUFACTURER TO DETERMINE WHAT TYPE OF ALTERNATE BRACE (I.E., T OR L BRACE, ETC.) IS REQUIRED.
- ANY CHORDS OR TRUSS WEBS SHOWN ON THESE DRAWINGS HAVE BEEN SHOWN AS A REFERENCE ONLY. THE FINAL DESIGN OF THE TRUSSES SHALL BE PER THE MANUFACTURER.
- TRUSS LAYOUT AND PLACEMENT BY MANUFACTURER TO COINCIDE WITH THE SUPPORT LOCATIONS SHOWN ON THE SEALED STRUCTURAL DRAWINGS. TRUSS PROFILES TO BE SEALED BY THE TRUSS MANUFACTURER. TRUSS PLANS TO BE COORDINATED WITH THE SEALED STRUCTURAL DRAWINGS.
- TRUSS MANUFACTURER TO PROVIDE REQUIRED UPLIFT CONNECTORS FOR ALL TRUSSES.
- PROVIDE SIMPSON H2.5A, USP RT7 OR EQUIVALENT AT EACH TRUSS TO TOP PLATE CONNECTION, UNLESS OTHERWISE NOTED.

**WOOD STRUCTURAL PANELS:**

- FABRICATION AND PLACEMENT OF STRUCTURAL WOOD SHEATHING SHALL BE IN ACCORDANCE WITH THE APA DESIGN/CONSTRUCTION GUIDE "RESIDENTIAL AND COMMERCIAL," AND ALL OTHER APPLICABLE APA STANDARDS.
- ALL REQUIRED WOOD SHEATHING SHALL BEAR THE MARK OF THE APA.
- WOOD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION. EXTERIOR WALLS TO BE FULLY SHEATHED USING ¾" OSB OR PLYWOOD MINIMUM. AT BRACED WALL PANELS, PROVIDE BLOCKING AT ALL SHEET EDGES NOT FALLING ON STUDS OR PLATES.
- ROOF SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ROOF SHEATHING SHALL BE CONTINUOUS OVER TWO SUPPORTS MINIMUM AND ATTACHED TO ITS SUPPORTING ROOF FRAMING WITH 8d NAILS AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED WITH THE LONG DIRECTION PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF PLYWOOD CLIPS OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING. ROOF SHEATHING TO BE ¾" OSB MINIMUM.
- WOOD FLOOR SHEATHING SHALL BE APA RATED SHEATHING EXPOSURE 1 OR 2. ATTACH SHEATHING TO ITS SUPPORTING FRAMING WITH (1) 10d NAIL AT 6" O.C. AT PANEL EDGES AND AT 12" O.C. IN PANEL FIELD UNLESS OTHERWISE NOTED ON THE PLANS. SHEATHING SHALL BE APPLIED PERPENDICULAR TO FRAMING. SHEATHING SHALL HAVE A SPAN RATING CONSISTENT WITH THE FRAMING SPACING. PROVIDE SUITABLE EDGE SUPPORT BY USE OF T&G PLYWOOD OR LUMBER BLOCKING UNLESS OTHERWISE NOTED. PANEL END JOINTS SHALL OCCUR OVER FRAMING.
- SHEATHING SHALL HAVE A ¼" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE APA.

**STRUCTURAL FIBERBOARD PANELS:**

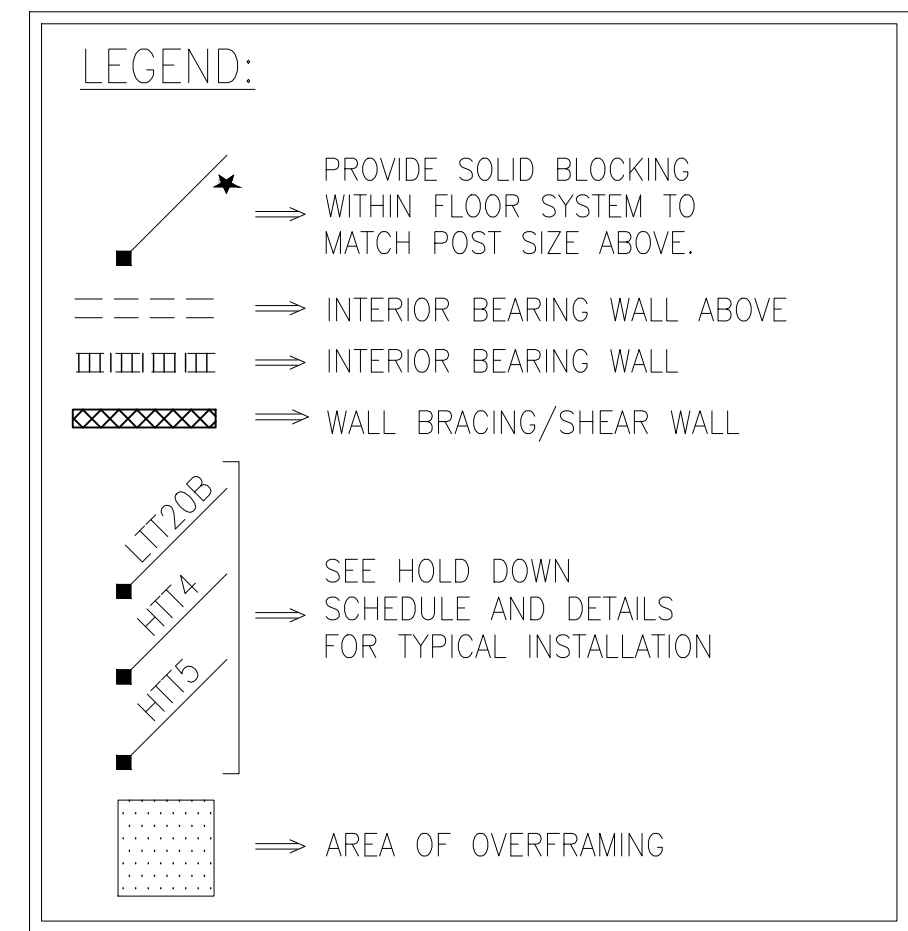
- STRUCTURAL FIBERBOARD SHEATHING SHALL ONLY BE USED WHERE SPECIFICALLY NOTED ON THE STRUCTURAL PLANS.
- FABRICATION AND PLACEMENT OF STRUCTURAL FIBERBOARD SHEATHING SHALL BE IN ACCORDANCE WITH THE APPLICABLE AFA STANDARDS.
- FIBERBOARD WALL SHEATHING SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL BUILDING CODES FOR THE APPROPRIATE STATE AS INDICATED ON THESE DRAWINGS. REFER TO WALL BRACING NOTES IN PLAN SET FOR MORE INFORMATION.
- SHEATHING SHALL HAVE A ¼" GAP AT PANEL ENDS AND EDGES AS RECOMMENDED IN ACCORDANCE WITH THE AFA.

**STRUCTURAL STEEL:**

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" AND OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN" LATEST EDITIONS.
- ALL STEEL SHALL HAVE A MINIMUM YIELD STRESS (F<sub>y</sub>) OF 50 KSI UNLESS OTHERWISE NOTED.
- WELDING SHALL CONFORM TO THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY'S STRUCTURAL WELDING CODE AWA D1.1. ELECTRODES FOR SHOP AND FIELDING WELDING SHALL BE CLASS E70XX. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER PER THE ABOVE STANDARDS.
- ALL STEEL BEAMS TO BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3½" AND FULL FLANGE WIDTH UNLESS OTHERWISE NOTED. BEAMS MUST BE ATTACHED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR (2) ½" x 4" LAG SCREWS UNLESS OTHERWISE NOTED.
- INSTALL 2x WOOD PLATE ON TOP OF STEEL BEAMS, RIPPED TO MATCH BEAM WIDTH. FASTEN PLATE TO BEAM W/ HILTI X-DNI 52 P8 PINS AT 12" O.C. STAGGERED OR ½" DIAMETER BOLTS AT 24" O.C.

**MECHANICAL FASTENERS:**

- ALL METAL HARDWARE AND FASTENERS TO BE SIMPSON STRONG-TIE OR APPROVED EQUIVALENT.
- ALL HARDWARE AND FASTENERS IN CONTACT WITH PRESERVATIVE PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A 153, G-185.
- MANY OF THE NEW PRESSURE TREATED WOODS USE CHEMICALS THAT ARE CORROSIVE TO STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE TYPE OF WOOD TREATMENT AND SELECT APPROPRIATE CONNECTORS THAT WILL RESIST THE APPLICABLE CORROSIVE CHEMICALS.



BRICK VENEER LINTEL SCHEDULE		
SPAN	LINTEL SIZE	END BEARING
UP TO 3'-0"	3½" x 3½" x ¼"	4"
UP TO 6'-3"	5" x 3½" x ¼" L.L.V.	8"
UP TO 9'-6"	6" x 3½" x ¼" L.L.V.	12"

LINTELS ARE NOT DESIGNED TO BE BOLTED TO HEADERS UNLESS SPECIFIED ON UNIT PLANS.  
SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED.

General Structural Notes

Up to 120 M.P.H.  
Raleigh, North Carolina



**Wellers Knoll Lot 52**

**S-0.1**

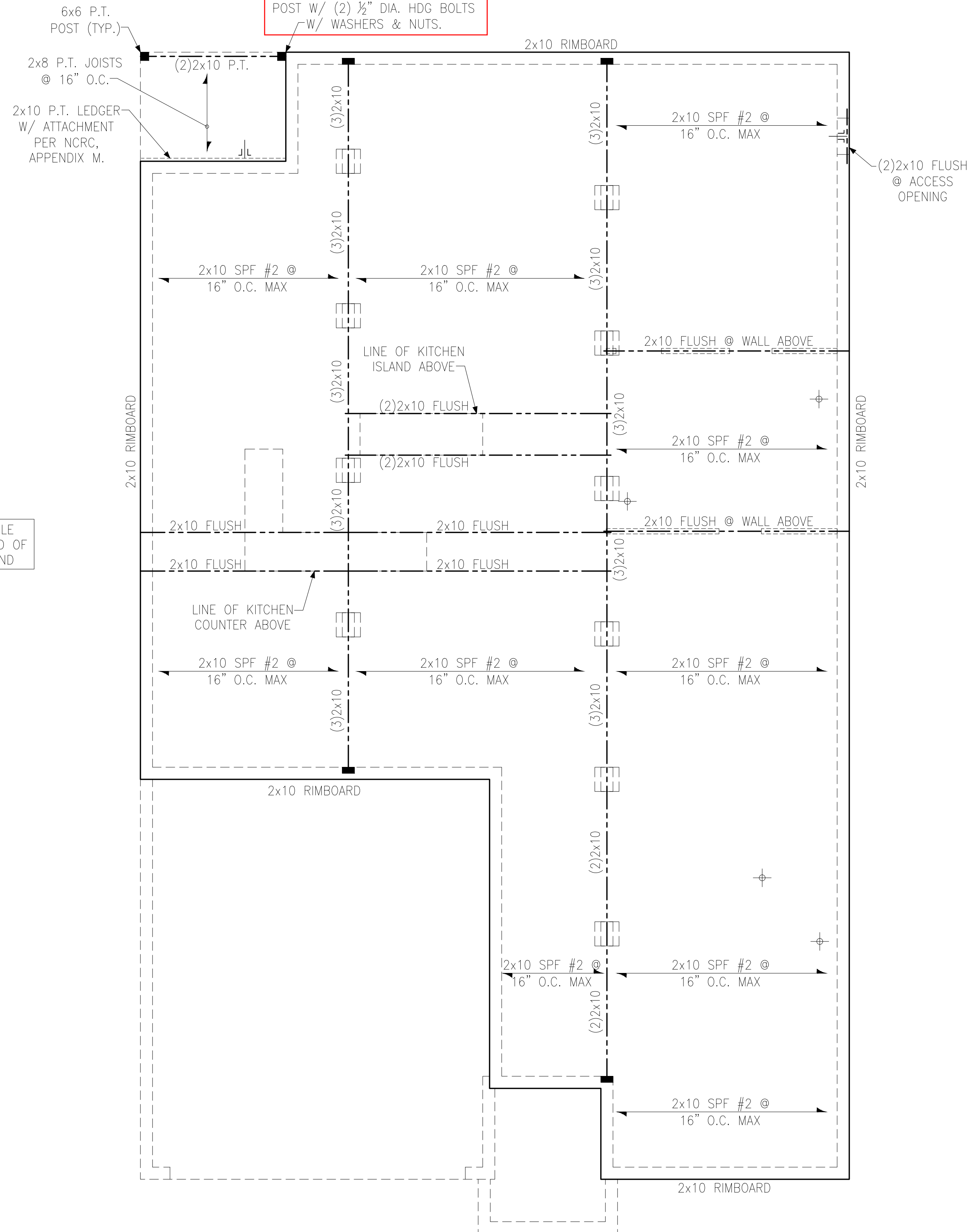
Project #: 214-22000  
 Designed By: KRK  
 Checked By:  
 Issue Date: 3/6/23  
 Re-Issue:  
 Scale: 1/8"=1'-0" @ 11x17  
 1/4"=1'-0" @ 22x34



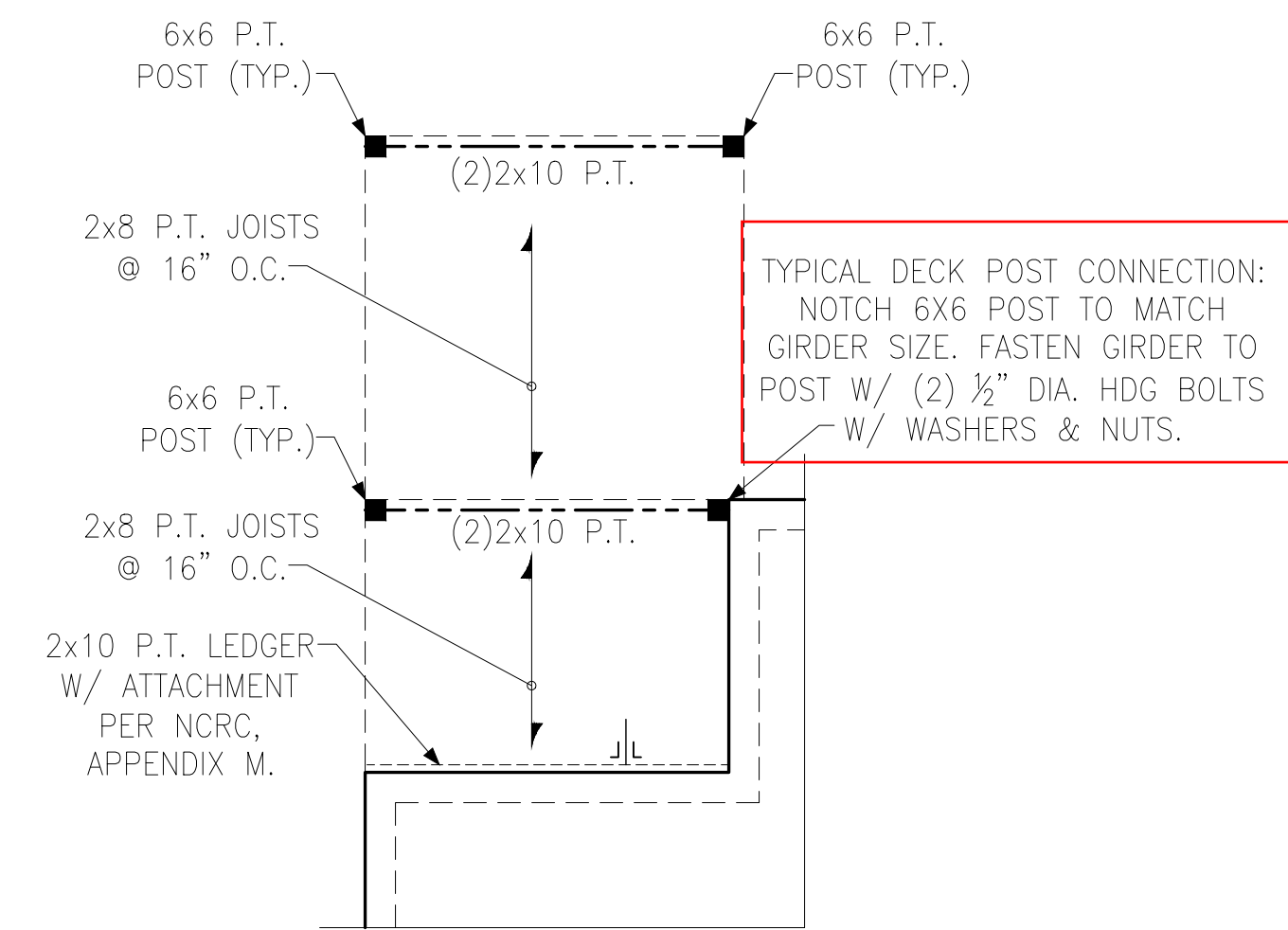


**DECK FRAMING NOTES:**  
 -DECK CONSTRUCTION PER NCRC, APPENDIX M, U.N.O.  
 -GUARD RAIL REQUIRED, DESIGN BY OTHERS (TYP.)  
 -PROVIDE LATERAL BRACING PER NCRC, APPENDIX M.  
 -4'-0" MAXIMUM HEIGHT FROM GRADE TO DECKING.  
 -EMBED POST 12" MINIMUM INTO COMPACTED FILL.  
 -ALL DECKS OVER 4'-0" HEIGHT FROM GRADE MUST MEET OR EXCEED REQUIREMENTS OF APPENDIX M OF NCRC 2018.

**TYPICAL DECK POST CONNECTION:**  
 NOTCH 6X6 POST TO MATCH GIRDER SIZE. FASTEN GIRDER TO POST W/ (2) 1/2" DIA. HDG BOLTS W/ WASHERS & NUTS.



LOCATE DOUBLE JOIST EACH END OF KITCHEN ISLAND



PARTIAL FRAMING PLAN  
 OPT. EXT. Deck

**NOTE:**  
 BEAMS, HEADERS AND FLOOR JOISTS MAY BE SYP #2 GRADE LUMBER.

**LEGEND**

- PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- BEARING WALL ABOVE
- INTERIOR BEARING WALL
- BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

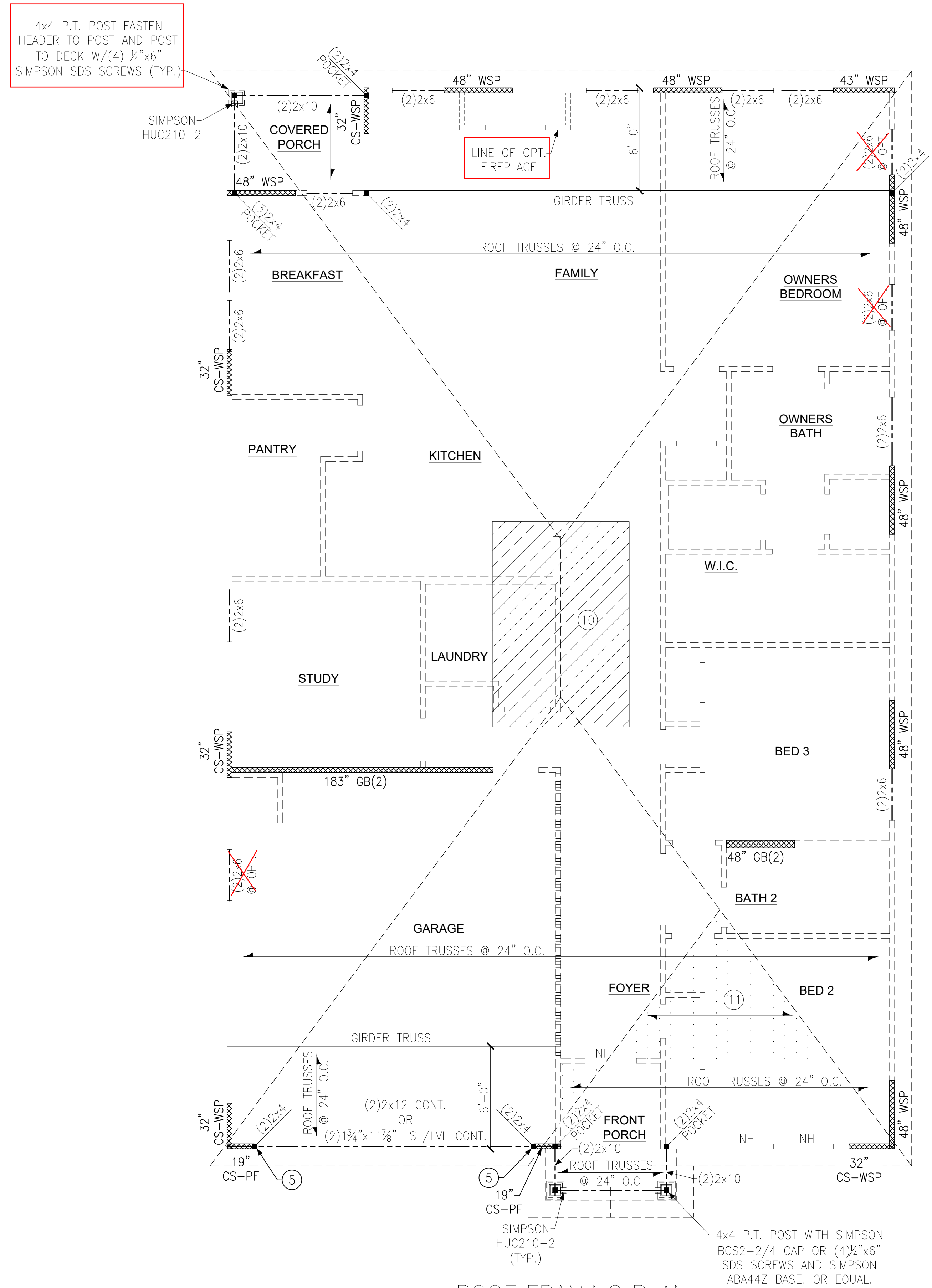
FLOOR FRAMING TO BE 2x10 SPF #2 @ 16" O.C. MAX OR EQUAL (U.N.O.).

CRAWL SPACE FRAMING PLAN  
 ELEVATION 'C'

Crawl Space Framing Plan - 2x10 Joists  
 Elevation 'C'  
 Daphne Model - LH  
 Up To 120 M.P.H.  
 Raleigh, North Carolina

Project #: 214-23001  
 Designed By: KRK  
 Checked By:  
 Issue Date: 6/20/23  
 Re-Issue: 10/11/23  
 Scale: 1/8"=1'-0" @ 11x17  
 1/4"=1'-0" @ 22x34





ROOF FRAMING PLAN  
ELEVATION 'C'

NOTE:  
BEAMS, HEADERS AND  
FLOOR JOISTS MAY BE SYP  
#2 GRADE LUMBER.

**LEGEND**

- PROVIDE SOLID BLOCKING WITHIN FLOOR SYSTEM TO MATCH POST SIZE ABOVE.
- BEARING WALL ABOVE
- INTERIOR BEARING WALL
- BRACED WALL PANEL (SEE KSE STRUCTURAL DETAILS SET FOR BRACED WALL PANEL SHEATHING FASTENING & BLOCKING DETAILS)
- 48" WSP
- NO HEADER REQUIRED

REFER TO KSE STRUCTURAL DETAILS SET FOR GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

PLAN DESIGNED WITH 9' WALL PLATES

**KEYNOTES:**

- ④ INSTALL ONE PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
- ⑤ INSTALL TWO PANEL CS-PF PORTAL FRAME PER DETAIL A OR B/SD-4.
- ⑩ 8'x12' HVAC PLATFORM TRUSSES DESIGNED TO SUPPORT HVAC UNITS.
- ⑪ VALLEY SET TRUSSES @ 24" O.C. OR 2x6 OVERFRAMING @ 24" O.C. W/ 2x8 RIDGE & VALLEY PLATES (TYP.)



Roof Framing Plans  
Elevation 'C' & Options  
Daphne Model - LH  
Up To 120 M.P.H.  
Raleigh, North Carolina

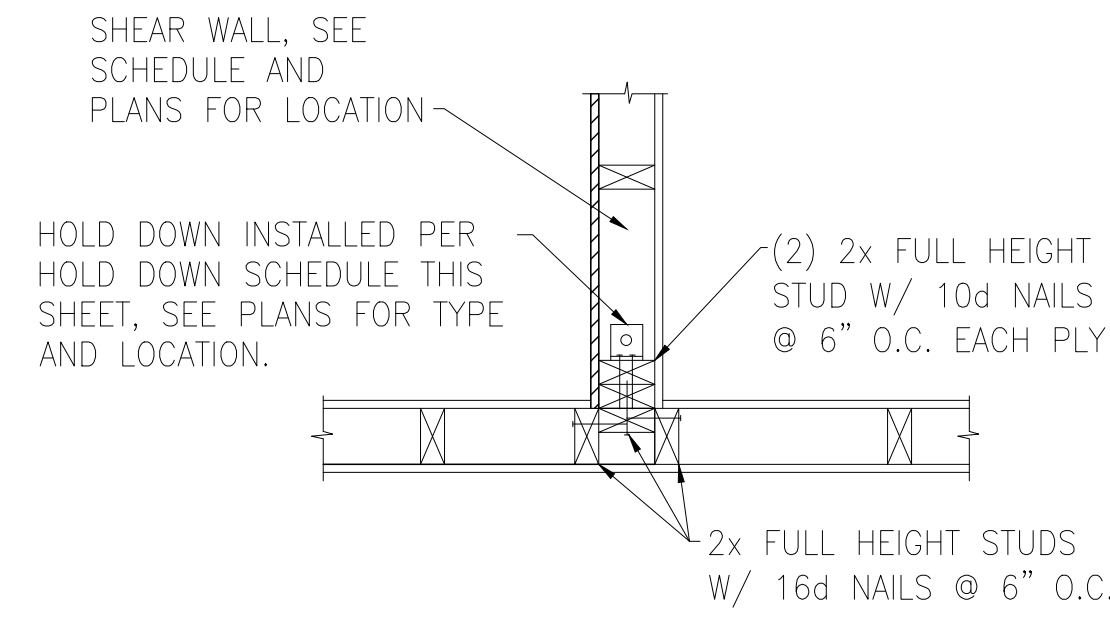
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Designed By: KRK  
Checked By:  
Issue Date: 6/20/23  
Re-Issue: 10/11/23  
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1/4"=1'-0" @ 22x34



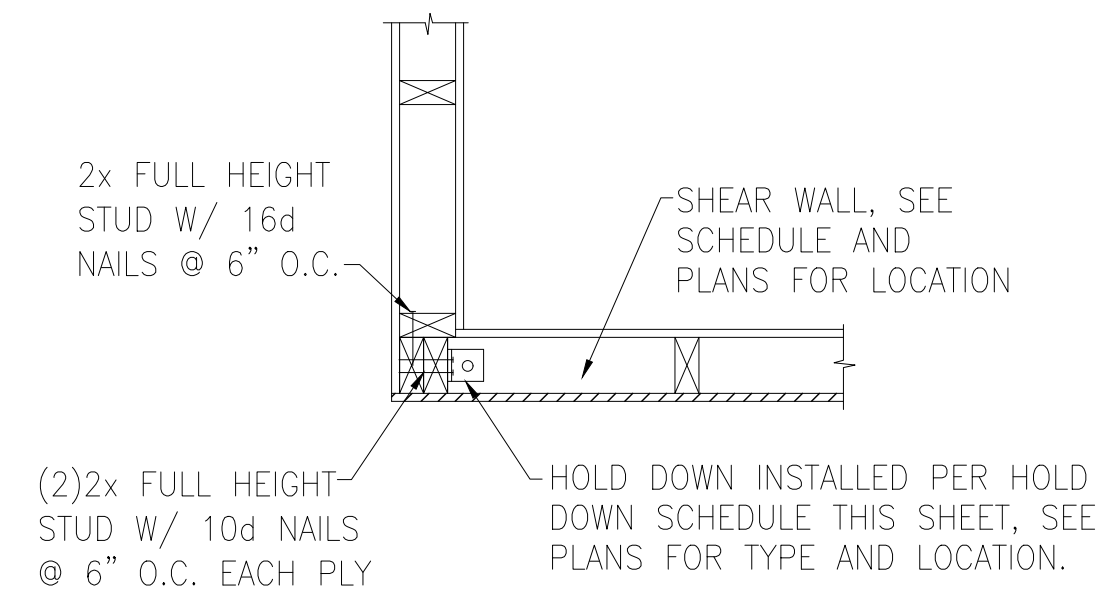




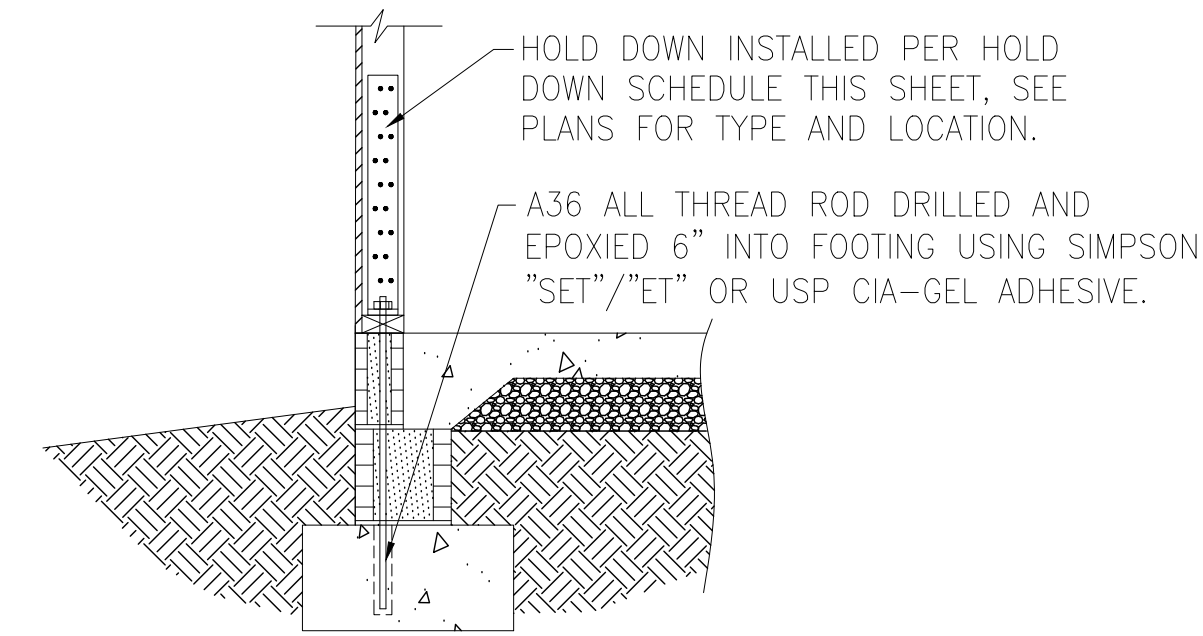
# Wellers Knoll Lot 52



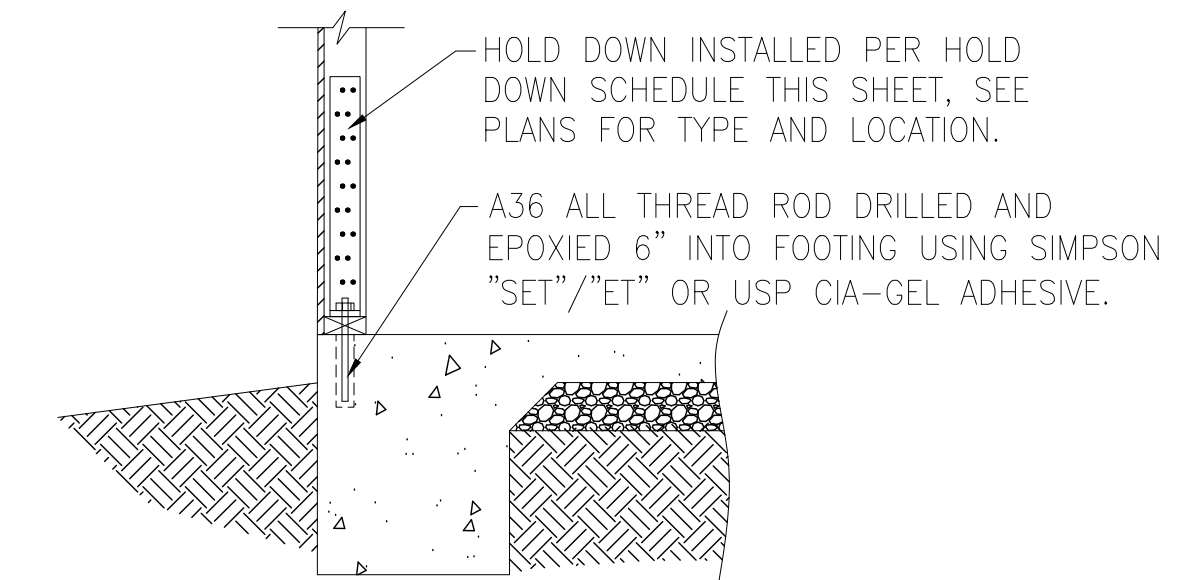
**A** TYPICAL HOLD DOWN DETAIL



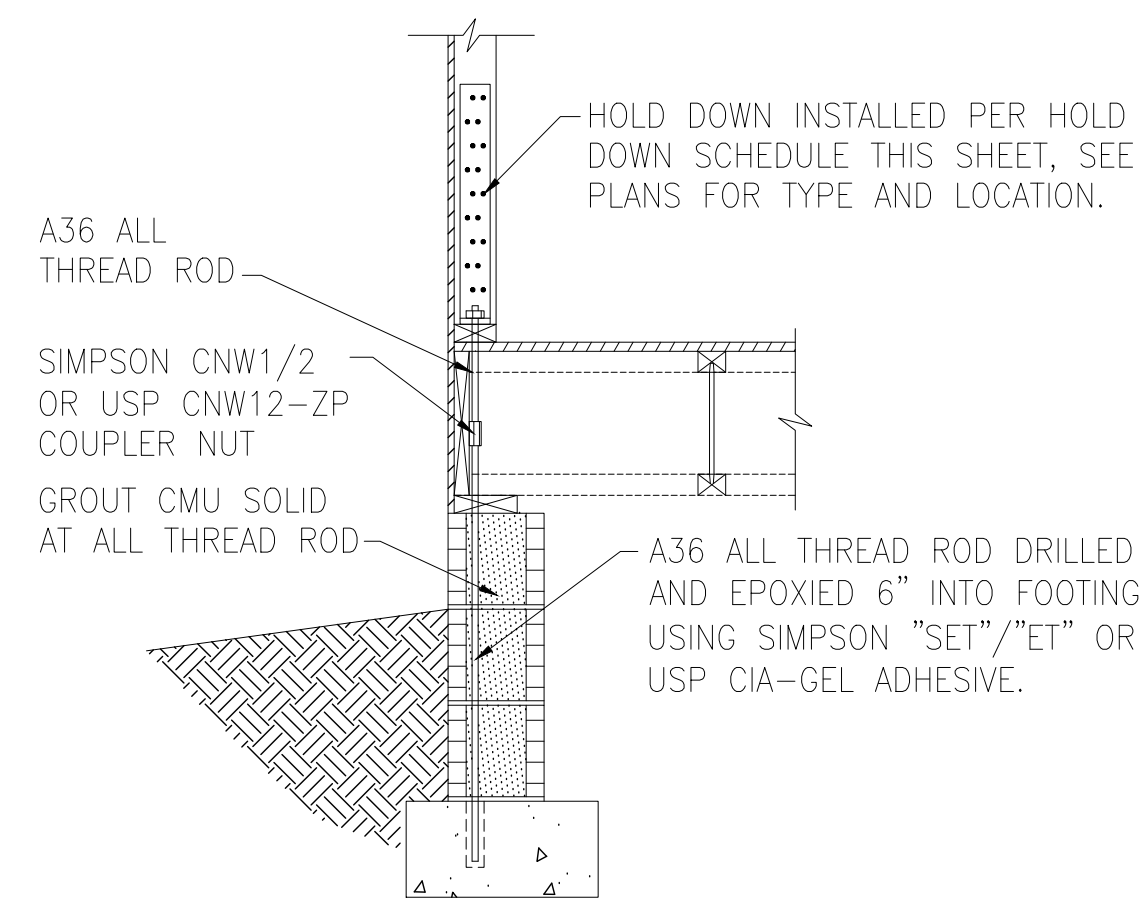
**B** TYPICAL HOLD DOWN DETAIL



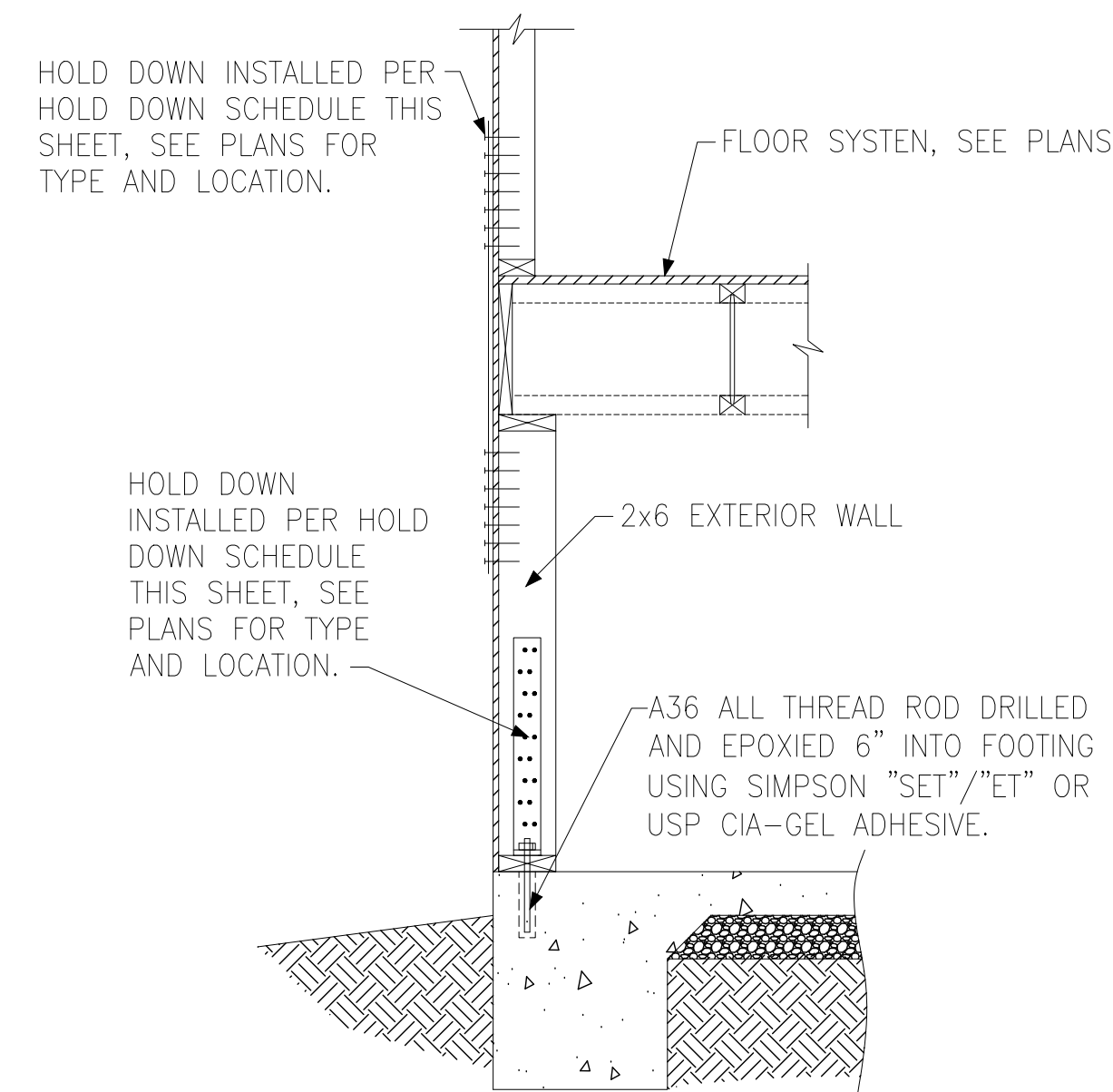
**C** HOLD DOWN AT STEMWALL SLAB FOUNDATION



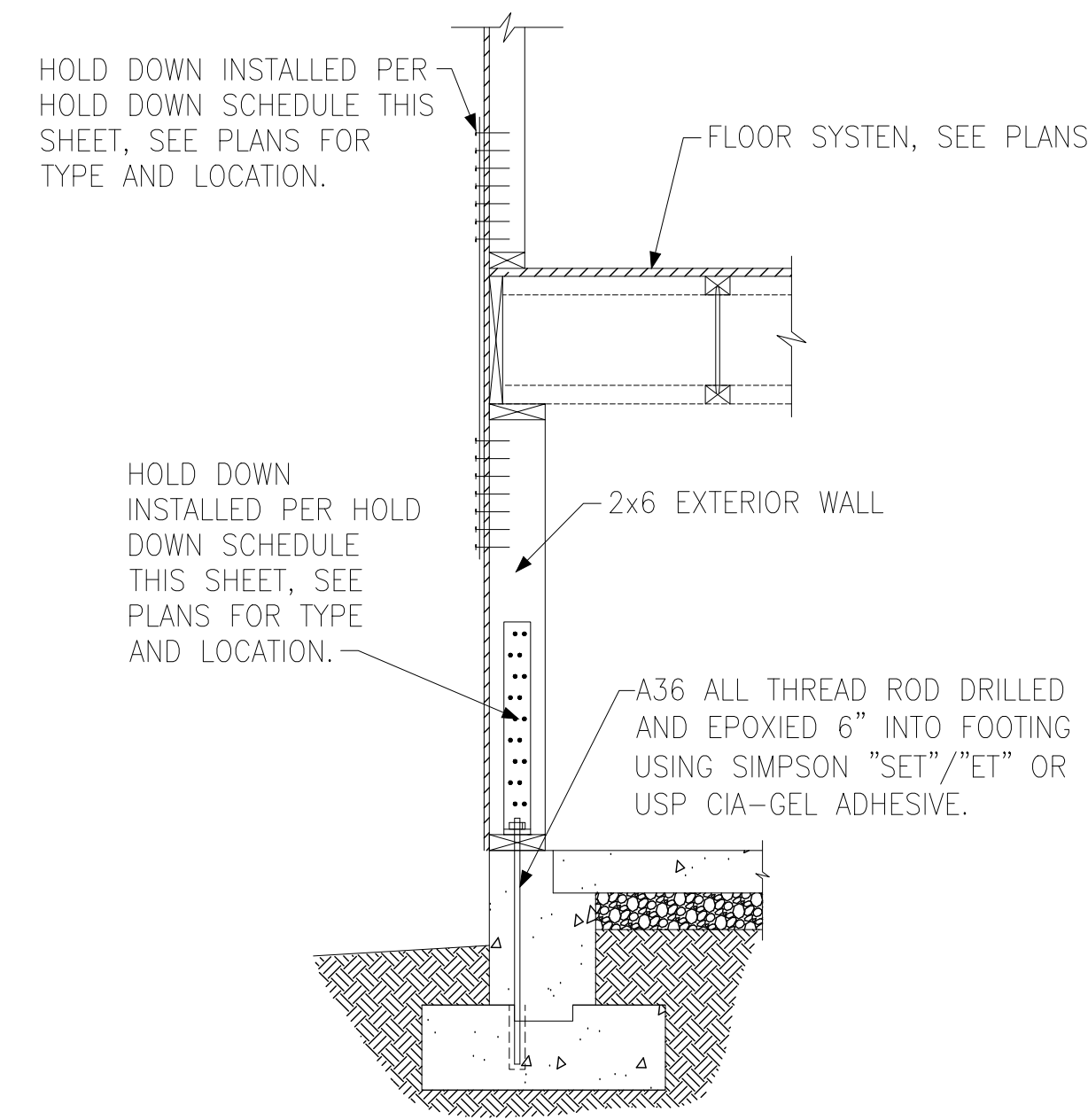
**D** HOLD DOWN AT MONOLITHIC SLAB FOUNDATION



**E** HOLD DOWN AT CRAWL SPACE FOUNDATION



**F** HOLD DOWN AT BASEMENT FOUNDATION MONOLITHIC TURN-DOWN



**G** HOLD DOWN AT BASEMENT FOUNDATION STEM WALL

HOLD DOWN SCHEDULE			
HOLD DOWN		ALL THREAD ROD	FASTENERS
SIMPSON	USP		
LTP2	LTS20B	1/2" DIA.	(12)0.148"x2.5" LONG NAILS
HTT4	HTT16	5/8" DIA.	(18)0.162"x2.5" LONG NAILS
HTT5	HTT45	5/8" DIA.	(26)0.162"x2.5" LONG NAILS

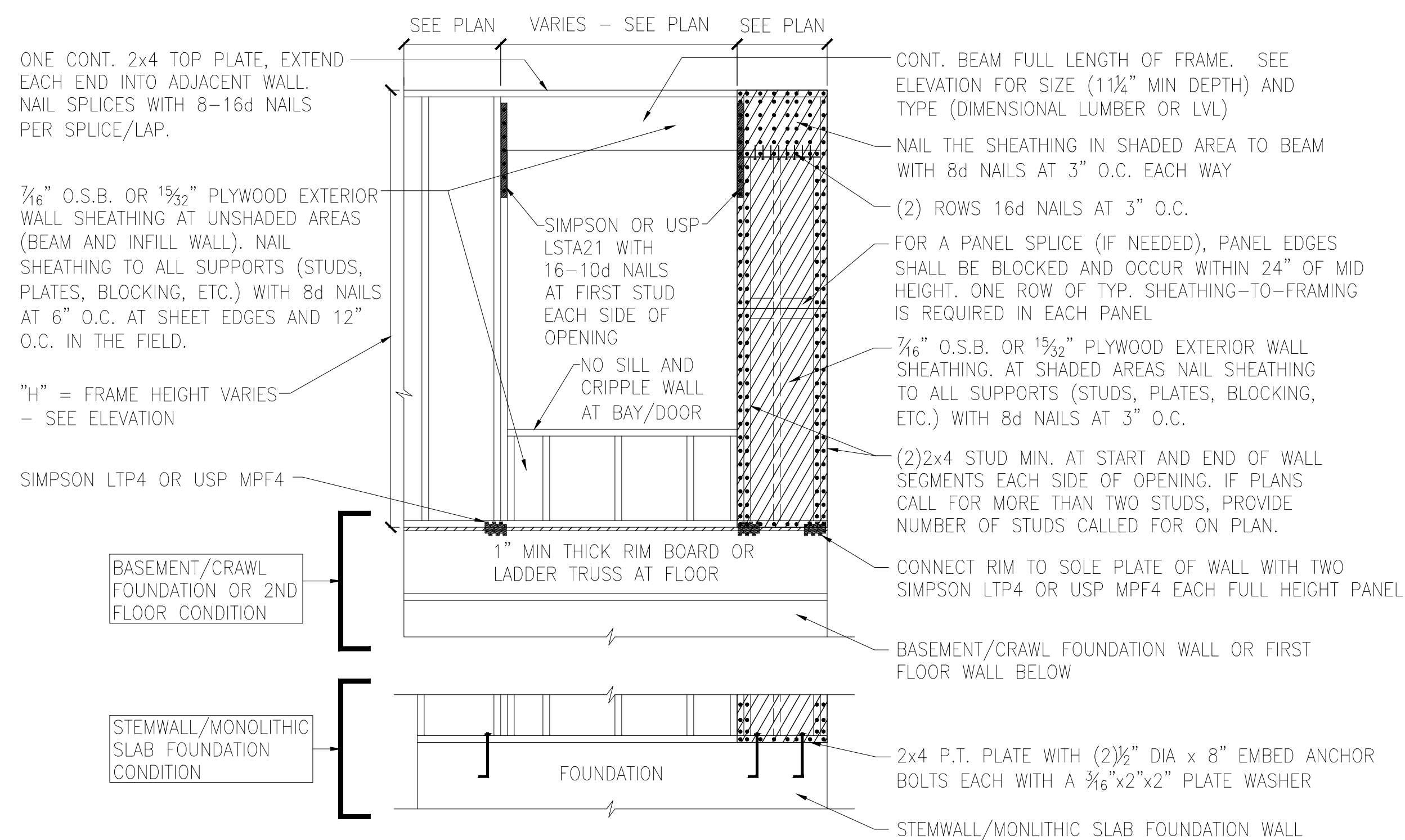
Hold Down Details

Up to 120 M.P.H.  
Raleigh, North Carolina

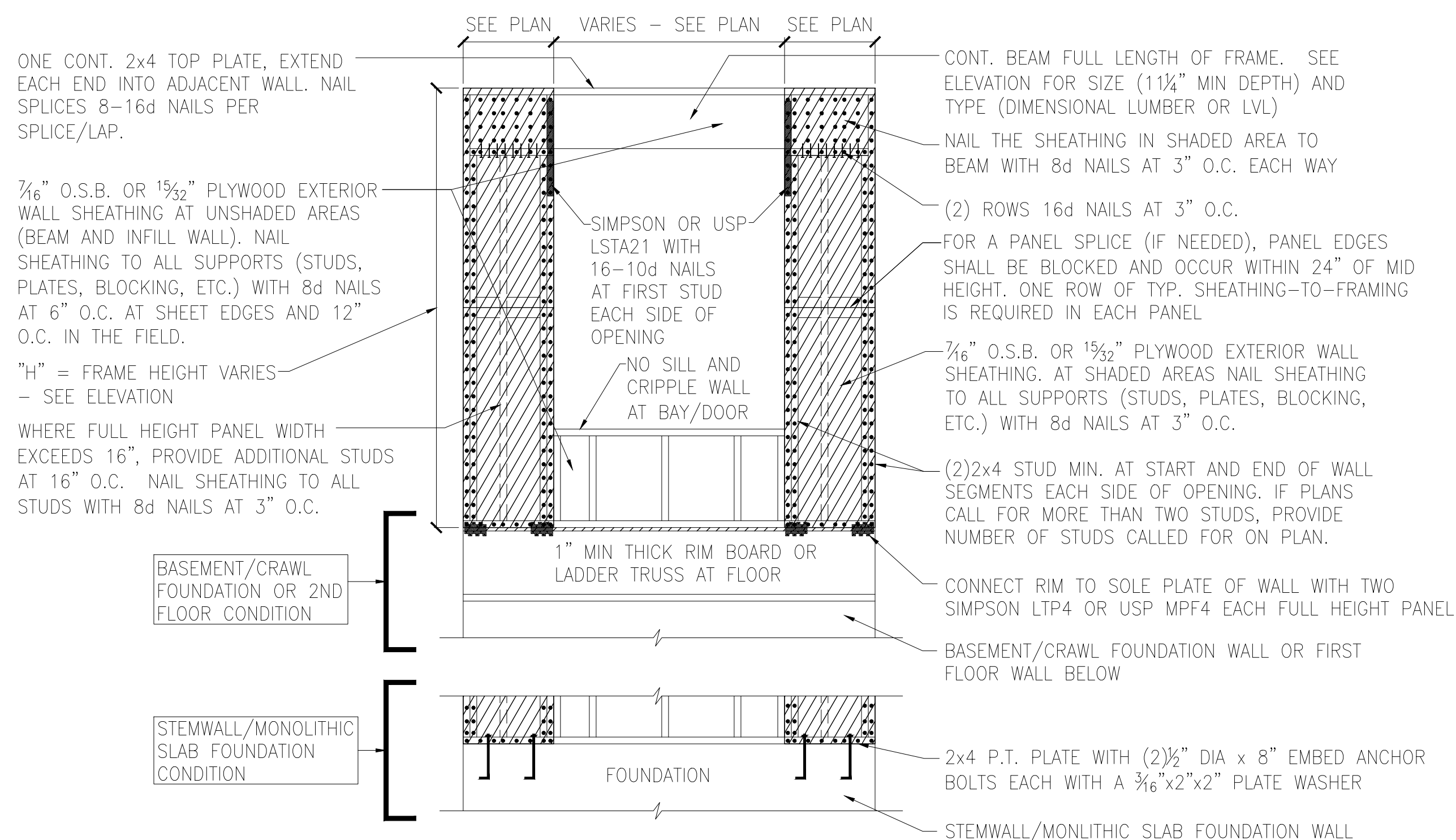
Project #: 214-22000  
Designed By: KRK  
Checked By:  
Issue Date: 3/6/23  
Re-Issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34



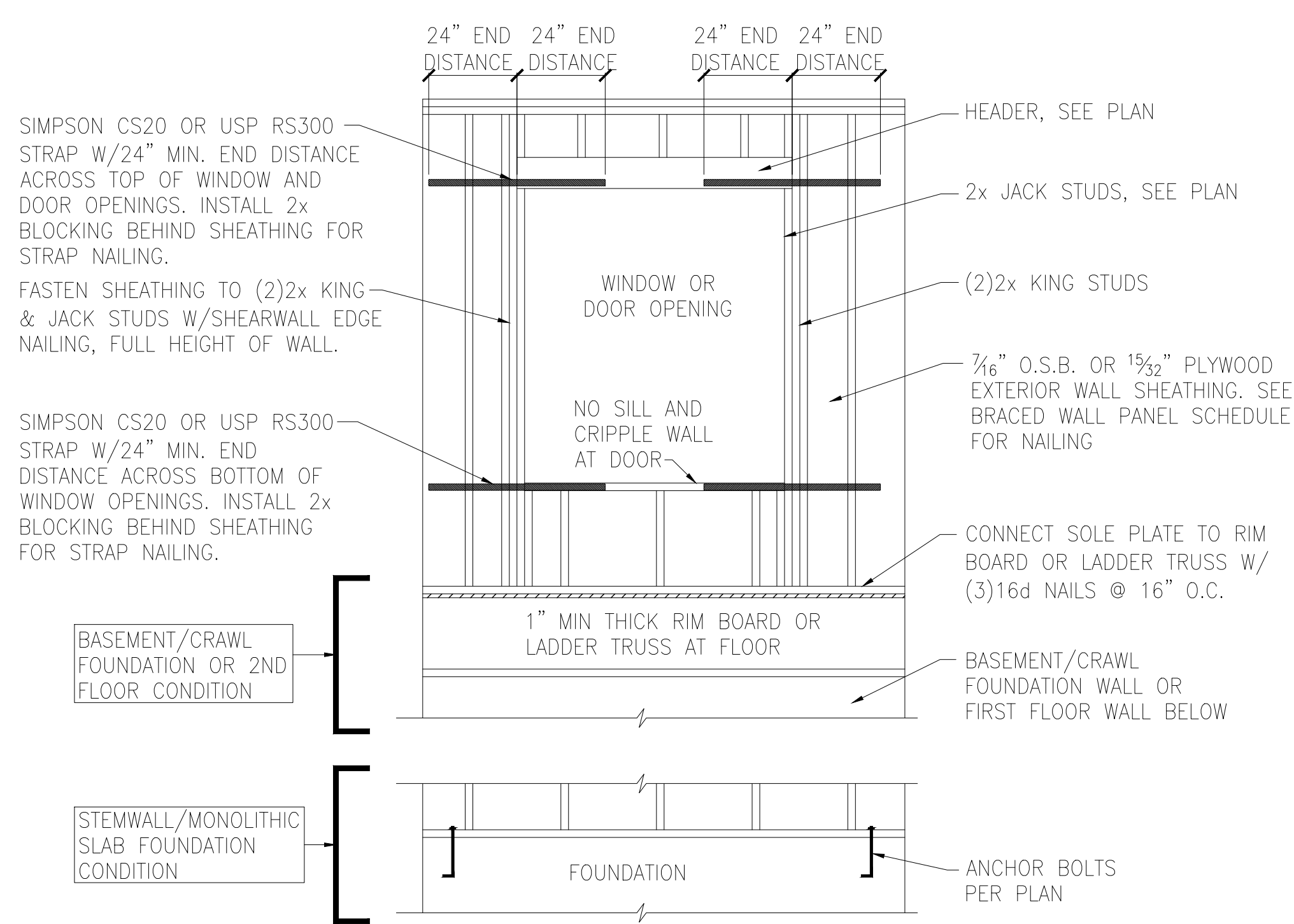




**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
ONE BRACED WALL SEGMENT



**B** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
TWO BRACED WALL SEGMENTS

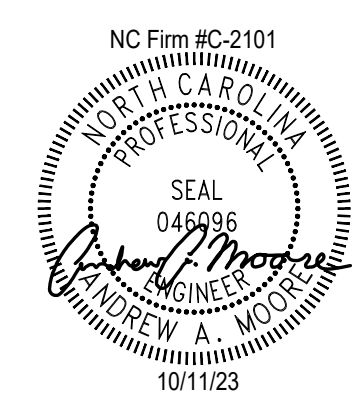


**C** WINDOW OR DOOR REINFORCEMENT IN ENGINEERED SHEAR WALL  
ONLY REQUIRED WHERE SPECIFIED ON PLANS

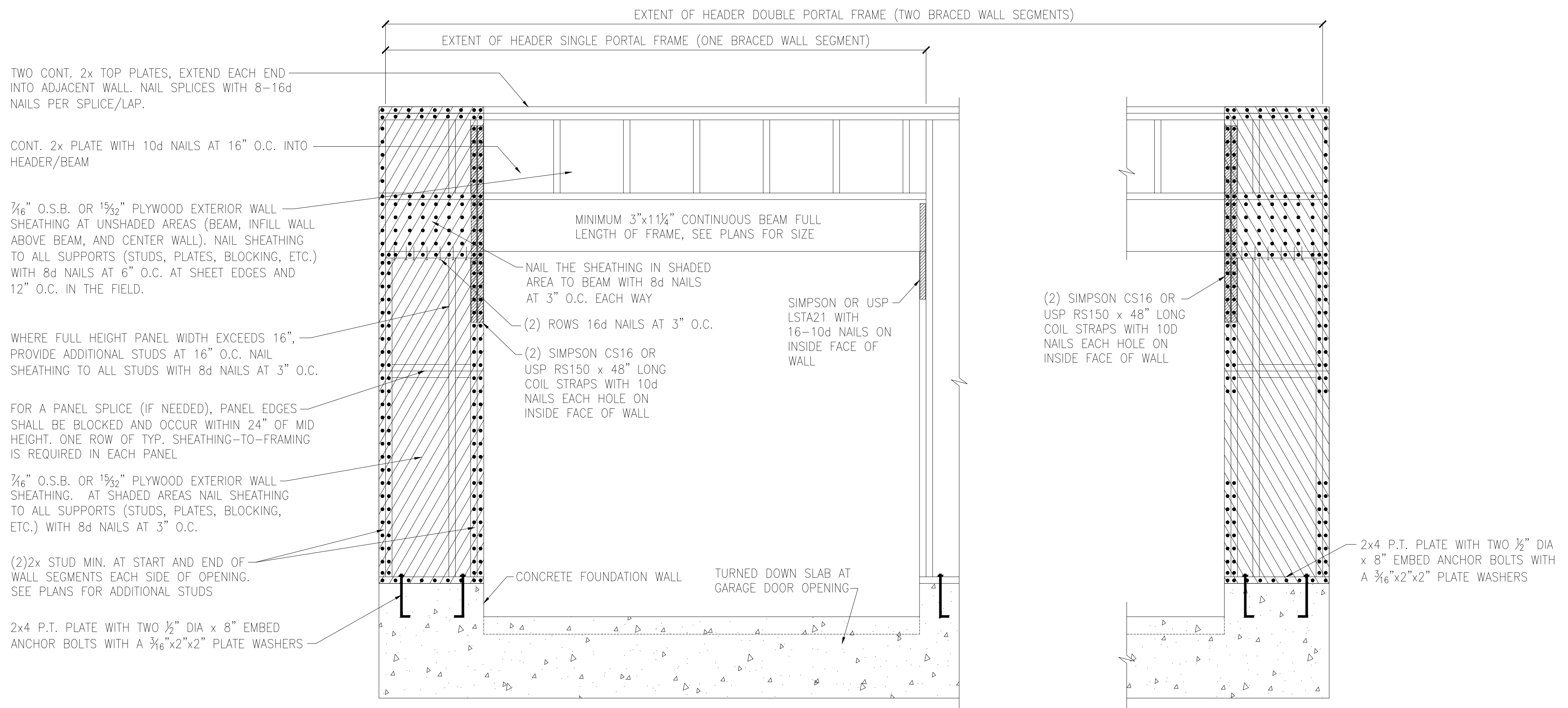
BRACED WALL PANEL AND ENGINEERED SHEAR WALL SCHEDULE			
PANEL TYPES	PANEL TYPE	MATERIAL	FASTENERS
WSP	INTERMITTENT WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
GB(1)	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(1)-4	INTERMITTENT GYPSUM BOARD (SHEATHING ONE FACE OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 4" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
GB(2)	INTERMITTENT GYPSUM BOARD (SHEATHING BOTH FACES OF WALL)	1/2" GYPSUM	1.5" LONG GALV. ROOFING NAILS, 6d COMMON NAILS, OR 1.25" LONG TYPE W DRYWALL SCREWS AT 7" O.C. AT SHEET EDGES AND INTERMEDIATE SUPPORTS.
CS-WSP	CONTINUOUS SHEATHED WOOD STRUCTURAL PANEL	7/16" OSB	6D OR 8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. ENGINEERED ALTERNATIVE: 16 GAGE BY 1.75" LONG STAPLES AT 3" O.C. AT SHEET EDGES AND 6" O.C. AT INTERMEDIATE SUPPORTS
CS-PF	CONTINUOUS SHEATHED PORTAL FRAME	7/16" OSB	NAILING PER DETAIL
PFH	PORTAL FRAME WITH HOLD DOWNS	7/16" OSB	NAILING PER DETAIL
CS-ESW(1)	ENGINEERED SHEAR WALL, TYPE 1	7/16" OSB	8D COMMON NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(2)	ENGINEERED SHEAR WALL, TYPE 2	7/16" OSB	8D COMMON NAILS AT 4" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS
CS-ESW(3)	ENGINEERED SHEAR WALL, TYPE 3	7/16" OSB	8D COMMON NAILS AT 3" O.C. AT SHEET EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS. CONTINUOUS OSB AROUND DOOR/WINDOW OPENINGS

**BRACED WALL PANEL NOTES:**

- ALL BRACED WALL PANELS, EXCEPT GB(1) & GB(2), SHALL HAVE 2x BLOCKING BETWEEN WALL STUDS AT ALL HORIZONTAL SHEET EDGES.
- PROVIDE NAILING/BLOCKING ABOVE AND BELOW ALL BRACED WALL PANELS PER KSE BRACED WALL DETAILS.
- SHEATH ALL EXTERIOR WALLS OF THE HOUSE WITH 7/16" O.S.B., OR 1/2" PLYWOOD, FASTENED PER IRC. AT EXTERIOR CORNERS, SHEATHING SHALL BE FASTENED PER KSE BRACED WALL DETAILS. AT INTERIOR WALL INTERSECTIONS, FASTEN STUDS & WALL BRACING PER KSE BRACED WALL DETAILS.
- BRACED WALL PANELS AND ENGINEERED SHEAR WALLS ARE PROVIDED PER IRC. PANEL LENGTHS SHOWN ON PLANS ARE THE MINIMUM LENGTH REQUIRED.







TWO CONT. 2x TOP PLATES, EXTEND EACH END INTO ADJACENT WALL. NAIL SPLICES WITH 8-16d NAILS PER SPLICE/LAP.

CONT. 2x PLATE WITH 10d NAILS AT 16" O.C. INTO HEADER/BEAM

7/16" O.S.B. OR 1/2" PLYWOOD EXTERIOR WALL SHEATHING AT UNSHADED AREAS (BEAM, INFILL WALL ABOVE BEAM, AND CENTER WALL). NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 6" O.C. AT SHEET EDGES AND 12" O.C. IN THE FIELD.

WHERE FULL HEIGHT PANEL WIDTH EXCEEDS 16", PROVIDE ADDITIONAL STUDS AT 16" O.C. NAIL SHEATHING TO ALL STUDS WITH 8d NAILS AT 3" O.C.

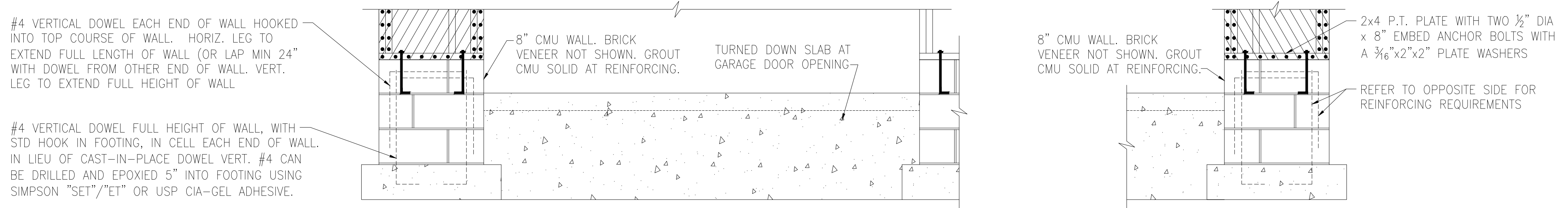
FOR A PANEL SPLICE (IF NEEDED), PANEL EDGES SHALL BE BLOCKED AND OCCUR WITHIN 24" OF MID HEIGHT. ONE ROW OF TYP. SHEATHING-TO-FRAMING IS REQUIRED IN EACH PANEL

7/16" O.S.B. OR 1/2" PLYWOOD EXTERIOR WALL SHEATHING. AT SHADED AREAS NAIL SHEATHING TO ALL SUPPORTS (STUDS, PLATES, BLOCKING, ETC.) WITH 8d NAILS AT 3" O.C.

(2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS

2x4 P.T. PLATE WITH TWO 1/2" DIA x 8" EMBED ANCHOR BOLTS WITH A 3/16"x2"x2" PLATE WASHERS

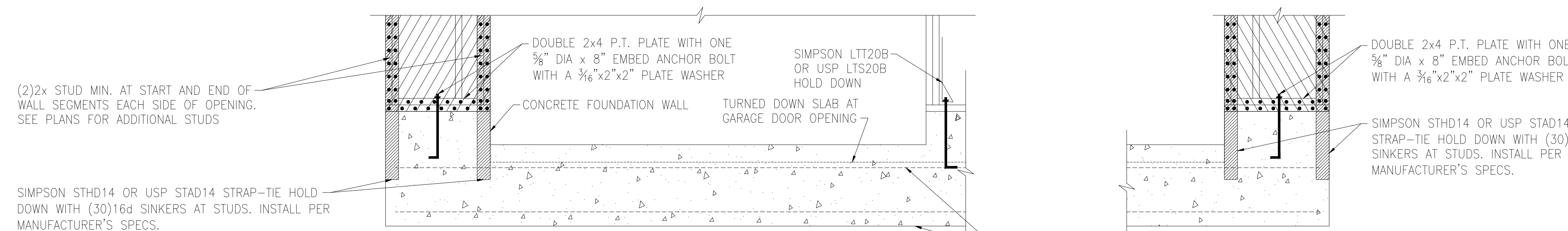
**A** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
MONOLITHIC SLAB OR BASEMENT FOUNDATION



#4 VERTICAL DOWEL EACH END OF WALL HOOKED INTO TOP COURSE OF WALL. HORIZ. LEG TO EXTEND FULL LENGTH OF WALL (OR LAP MIN 24" WITH DOWEL FROM OTHER END OF WALL. VERT. LEG TO EXTEND FULL HEIGHT OF WALL

#4 VERTICAL DOWEL FULL HEIGHT OF WALL, WITH STD HOOK IN FOOTING, IN CELL EACH END OF WALL. IN LIEU OF CAST-IN-PLACE DOWEL VERT. #4 CAN BE DRILLED AND EPOXIED 5" INTO FOOTING USING SIMPSON "SET"/"ET" OR USP CIA-GEL ADHESIVE.

**B** METHOD CS-PF: CONTINUOUS PORTAL FRAME PANEL CONSTRUCTION  
STEMWALL SLAB OR CRAWL SPACE FOUNDATION



(2)2x STUD MIN. AT START AND END OF WALL SEGMENTS EACH SIDE OF OPENING. SEE PLANS FOR ADDITIONAL STUDS

SIMPSON STHD14 OR USP STAD14 STRAP-TIE HOLD DOWN WITH (30)16d SINKERS AT STUDS. INSTALL PER MANUFACTURER'S SPECS.

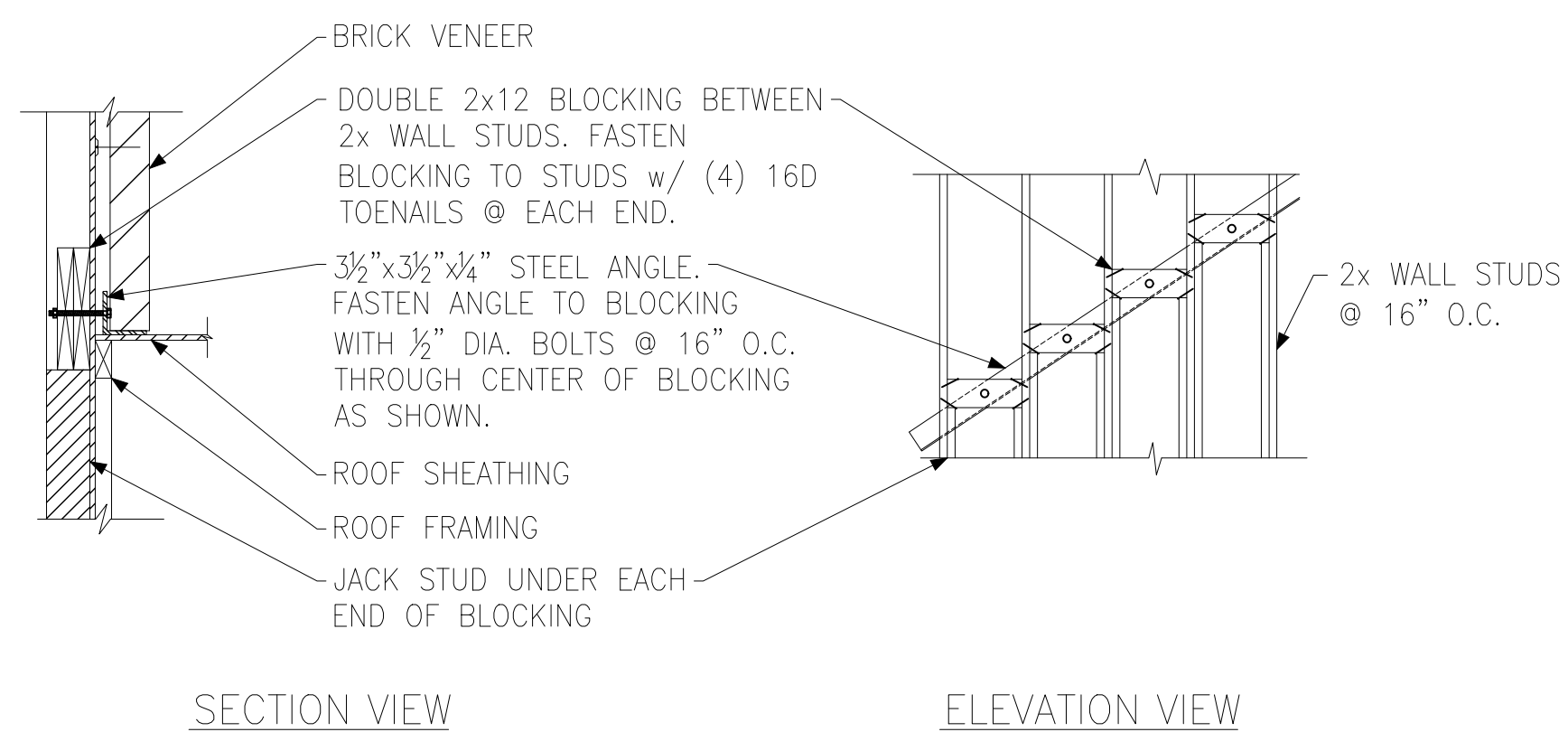
**C** METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS  
MONOLITHIC SLAB OR BASEMENT FOUNDATION

CONTINUOUS #4 HIGH AND LOW. PROVIDE MIN 24" LAPS WHERE SPLICED.



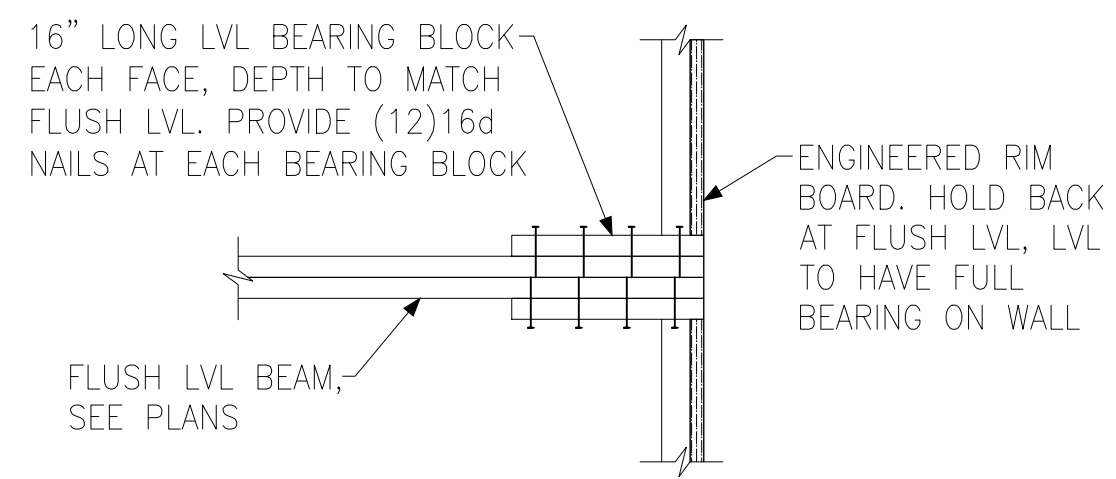
Portal Frame Details  
Up to 120 M.P.H.  
Raleigh, North Carolina

Project #: 214-22000  
Designed By: KRK  
Checked By:  
Issue Date: 3/6/23  
Re-Issue:  
Scale: 1/8"=1'-0" @ 11x17  
1/4"=1'-0" @ 22x34

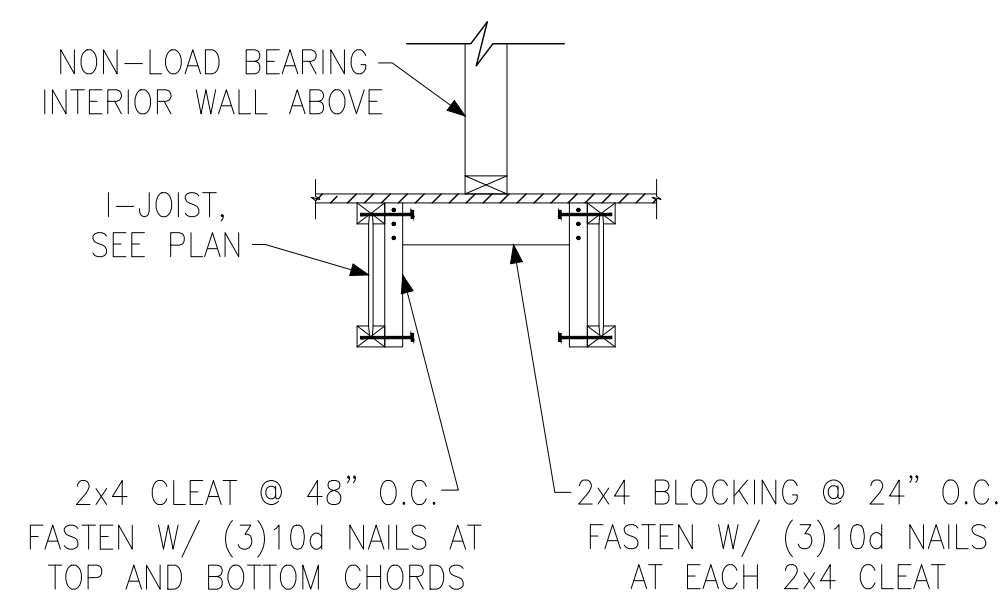


SECTION VIEW ELEVATION VIEW

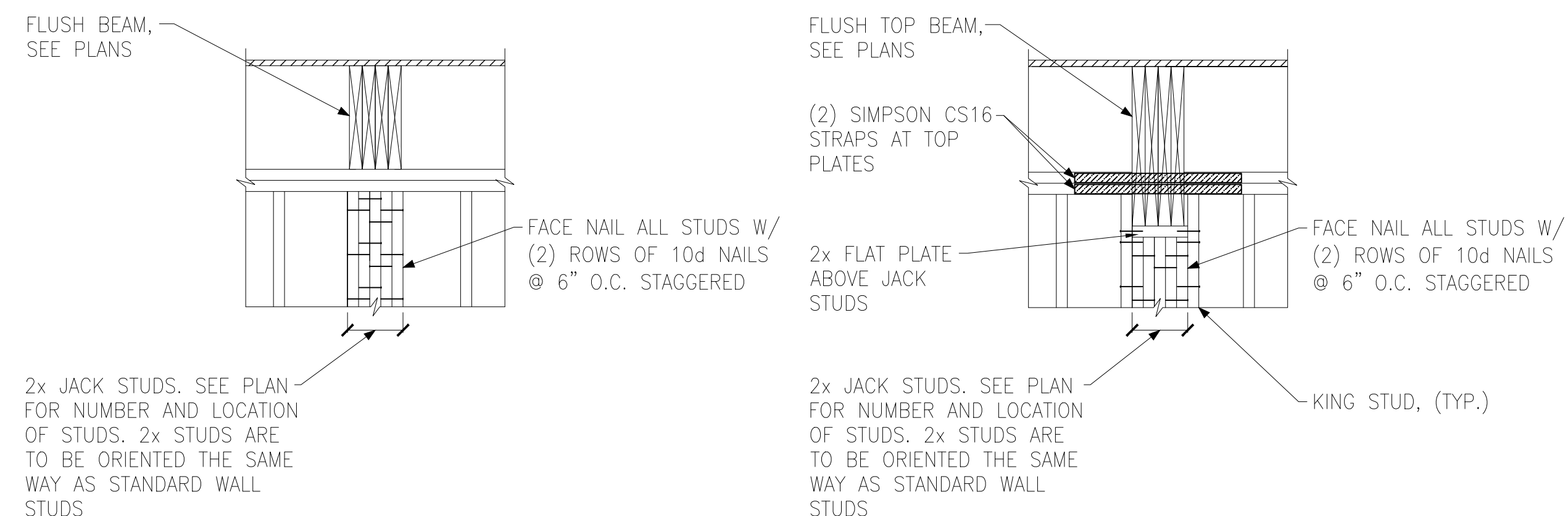
(A) BRICK LEDGER CONNECTION DETAIL



(B) BEARING ENHANCER FLUSH LVL



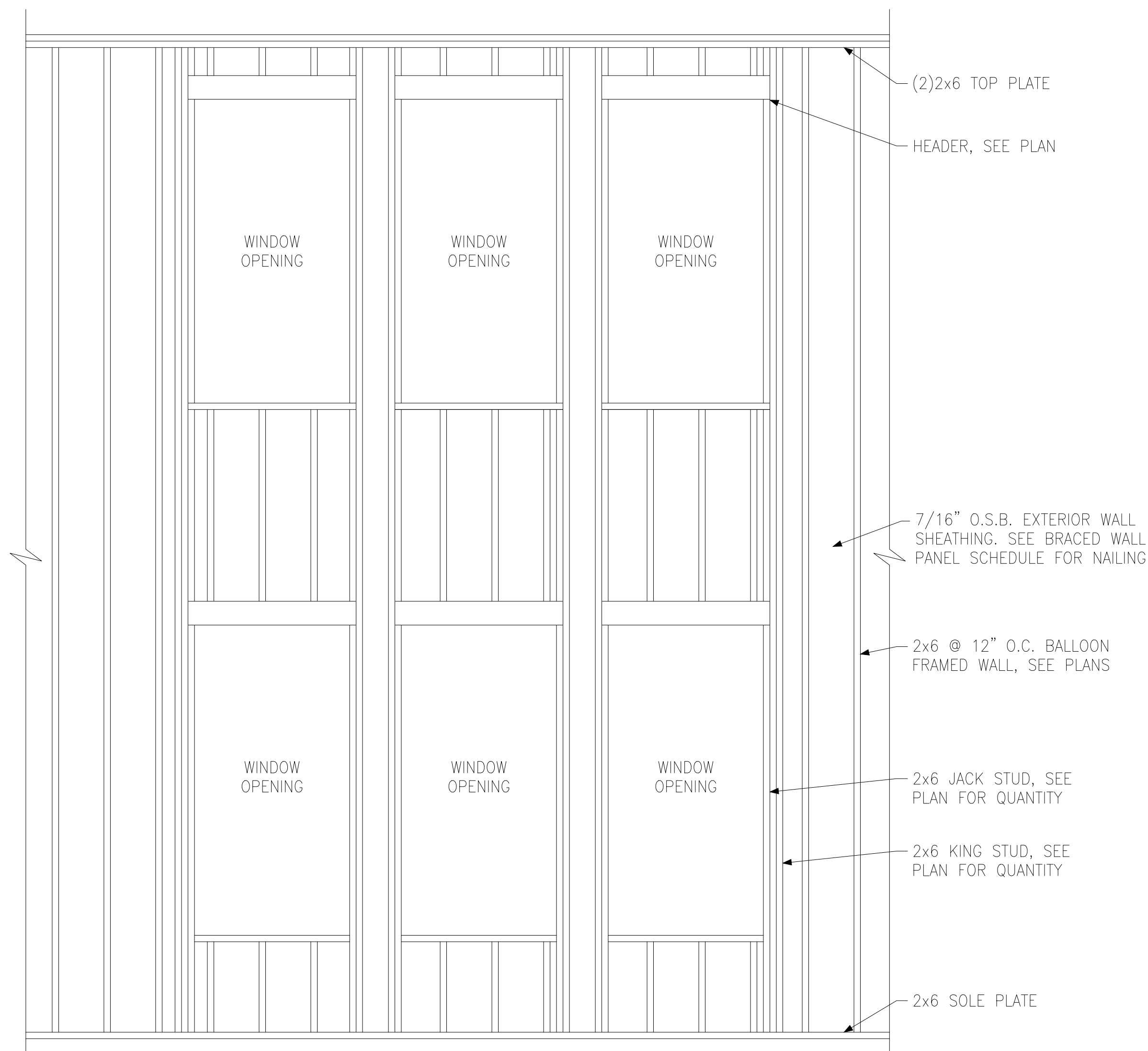
(C) I-JOIST LADDER BLOCKING AS REQUIRED @ PARALLEL WALLS



FLUSH BEAM

FLUSH TOP BEAM

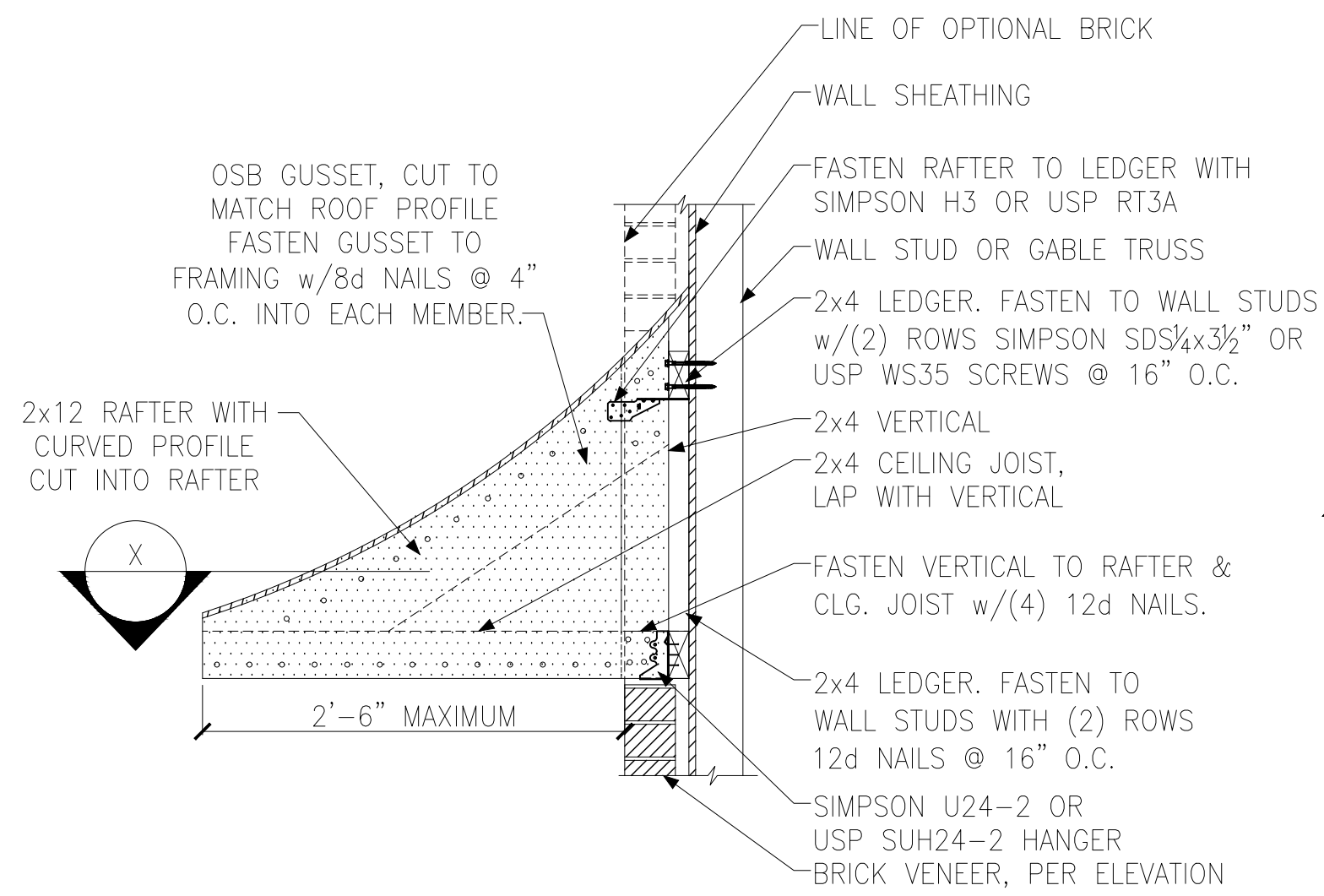
(E) BUILT-UP STUD DETAIL SUPPORTING BEAM



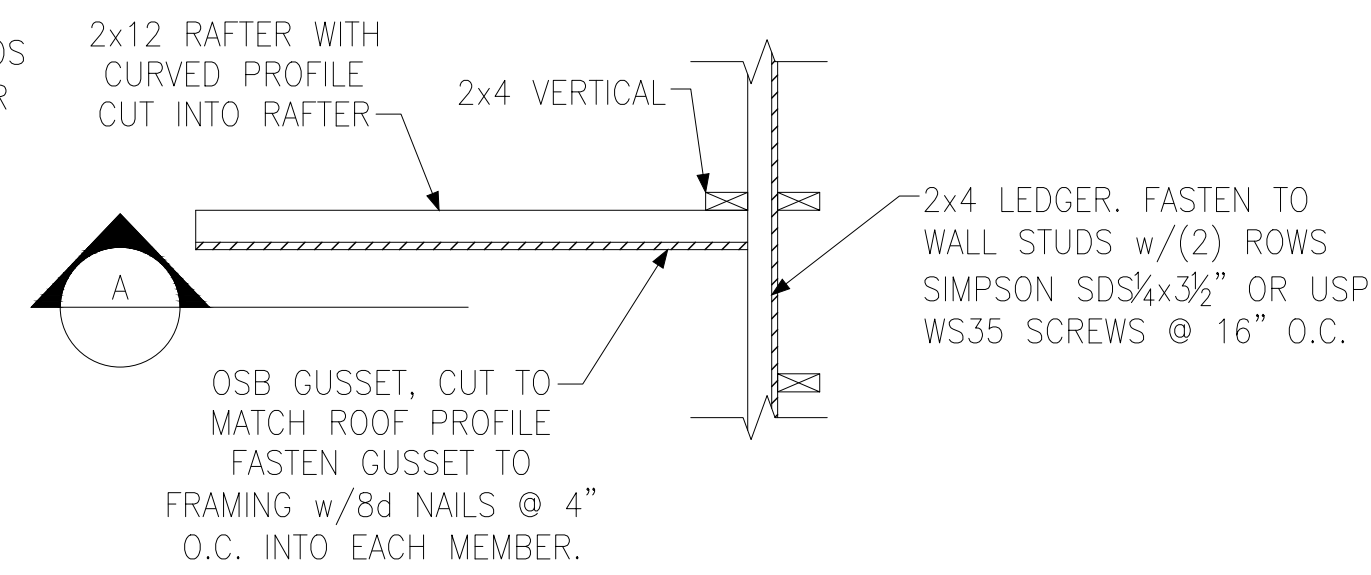
(D) BALLOON FRAMED WALL DETAIL N.T.S.



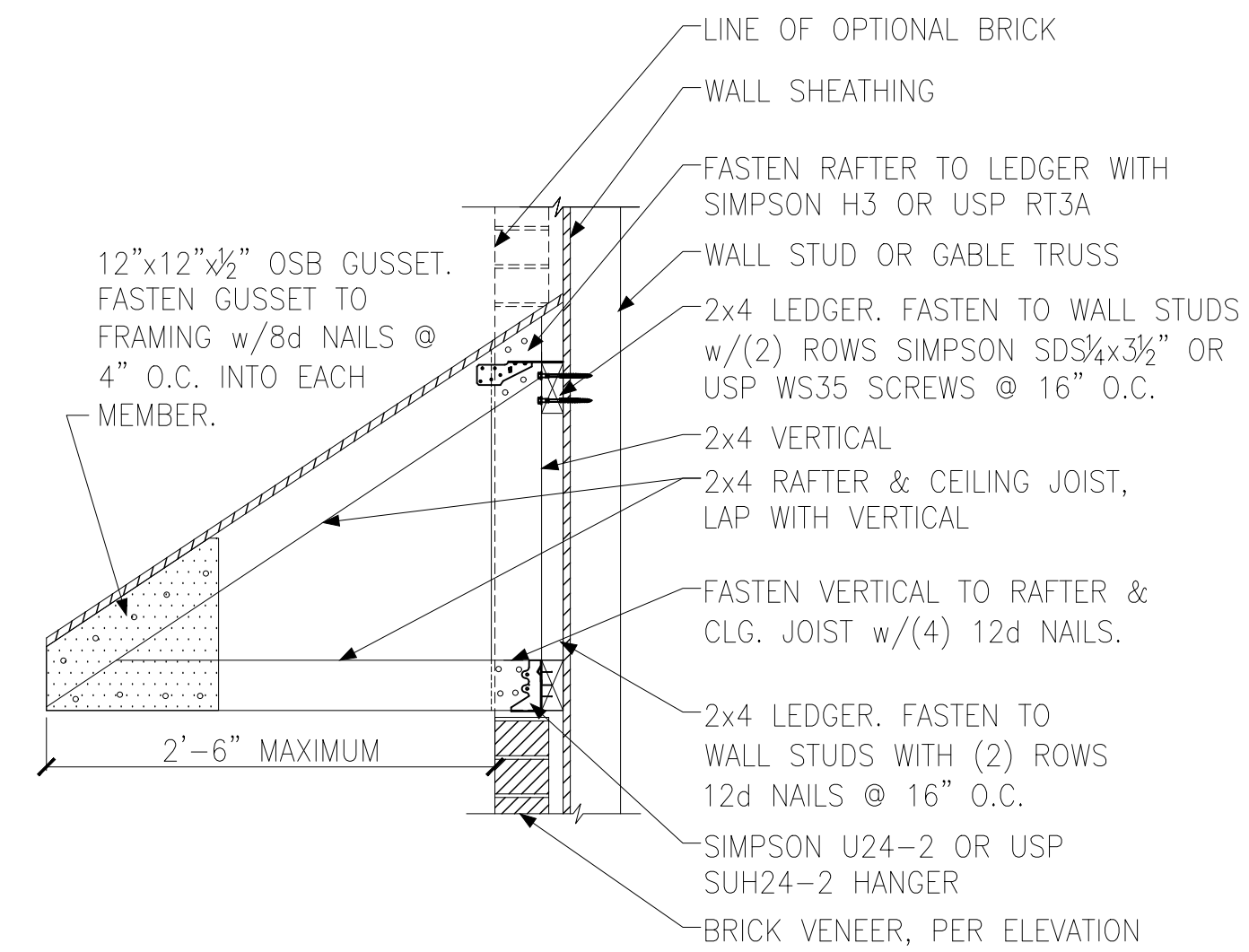




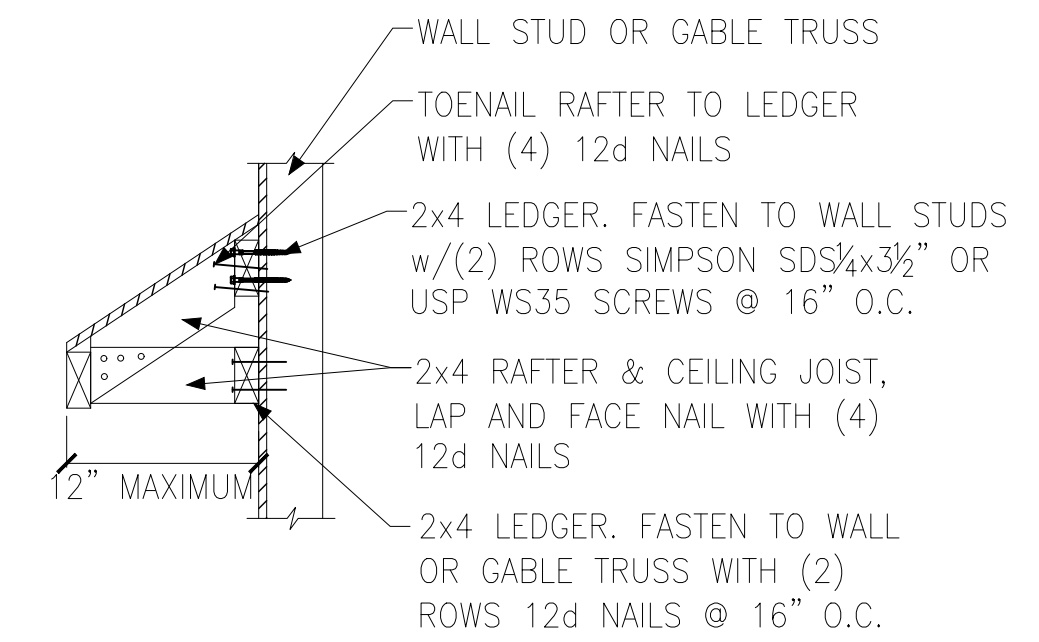
**A** PENT ROOF DETAIL  
CURVED ROOF



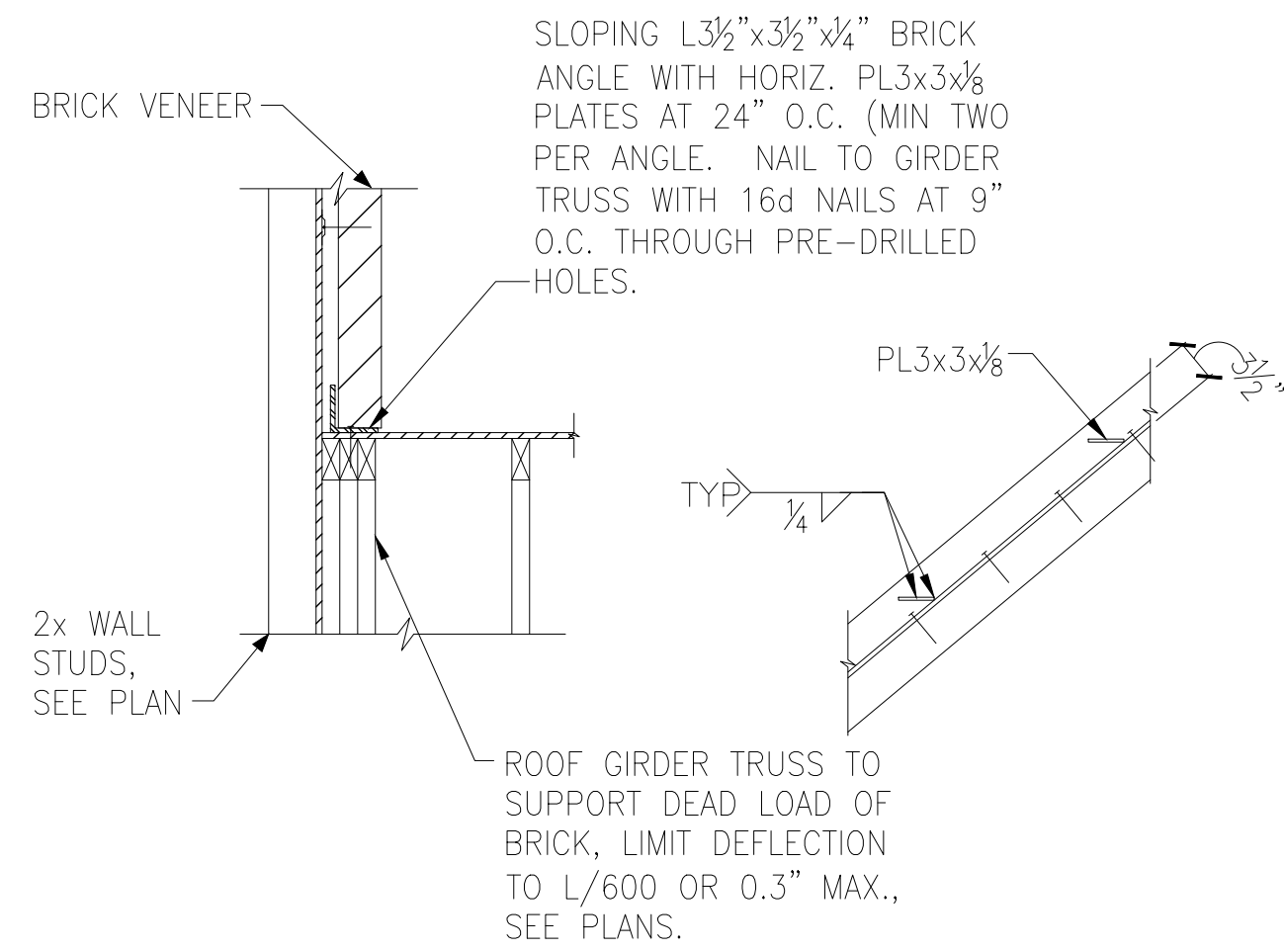
**X** SECTION  
CURVED ROOF



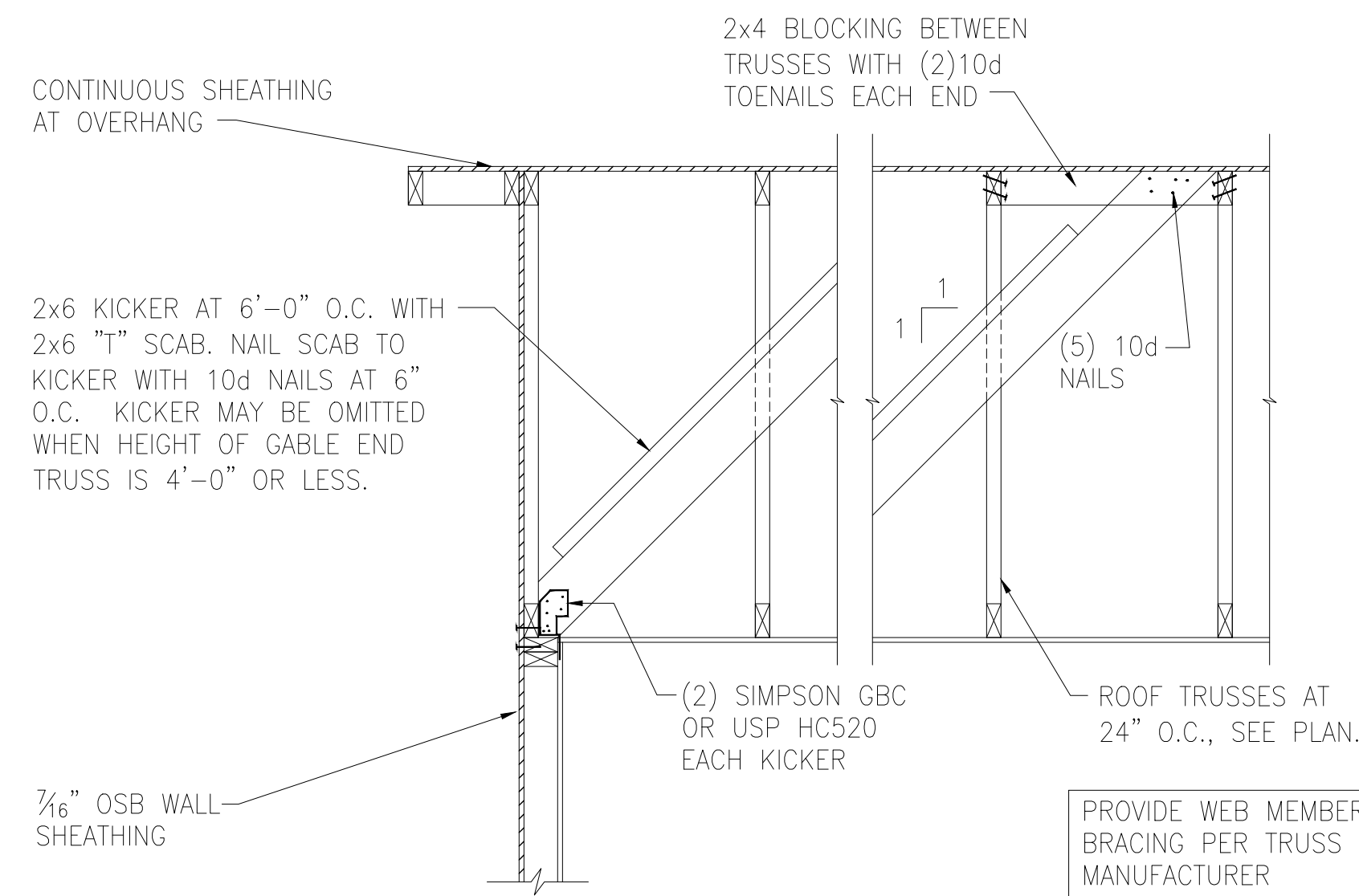
**B** PENT ROOF DETAIL  
STRAIGHT ROOF



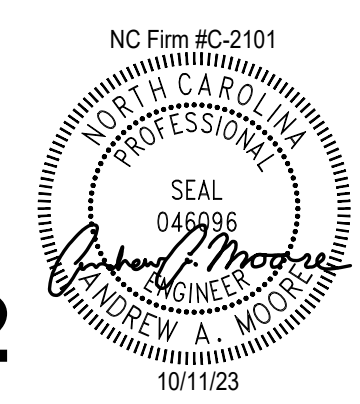
**C** EYEBROW ROOF DETAIL  
STRAIGHT ROOF

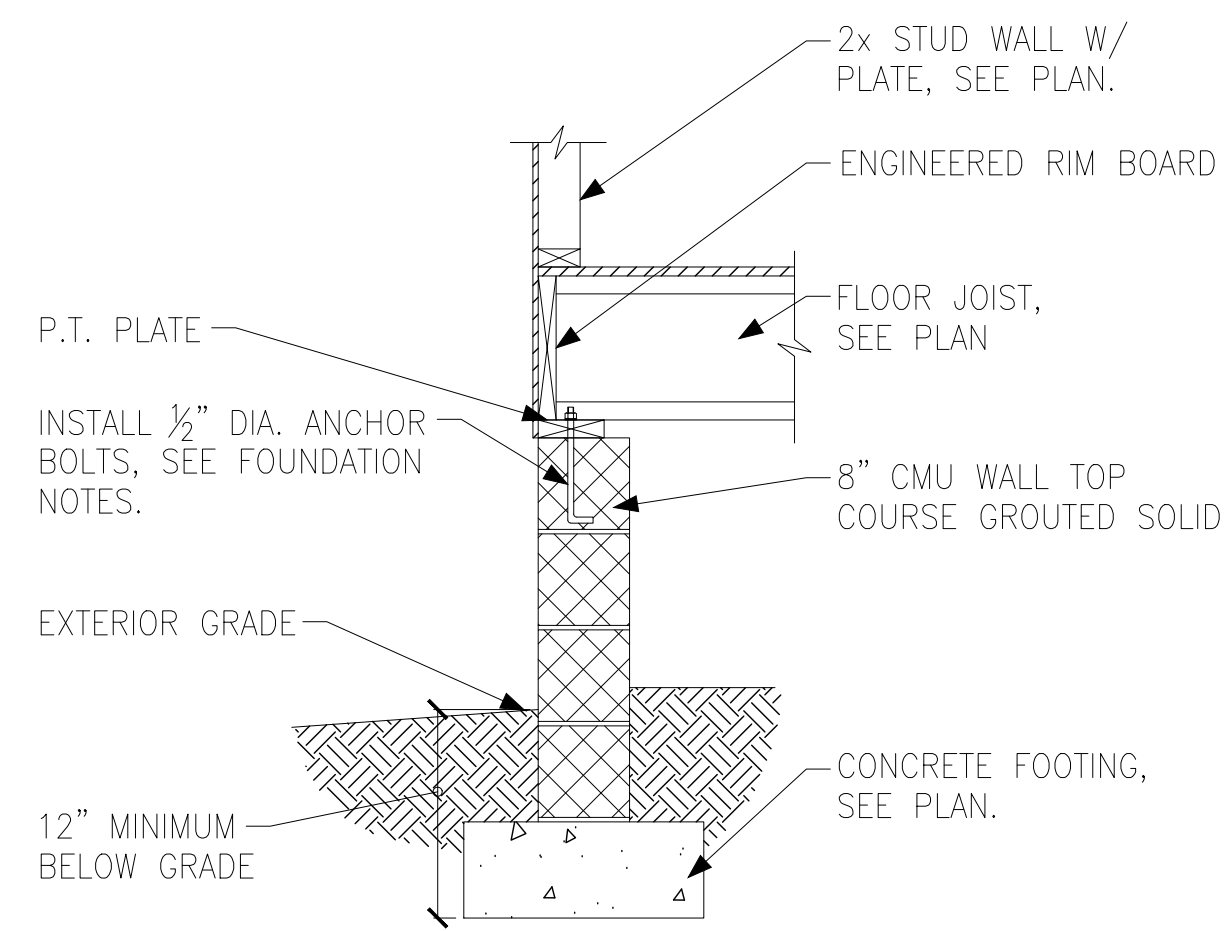


**D** TRUSS DETAIL

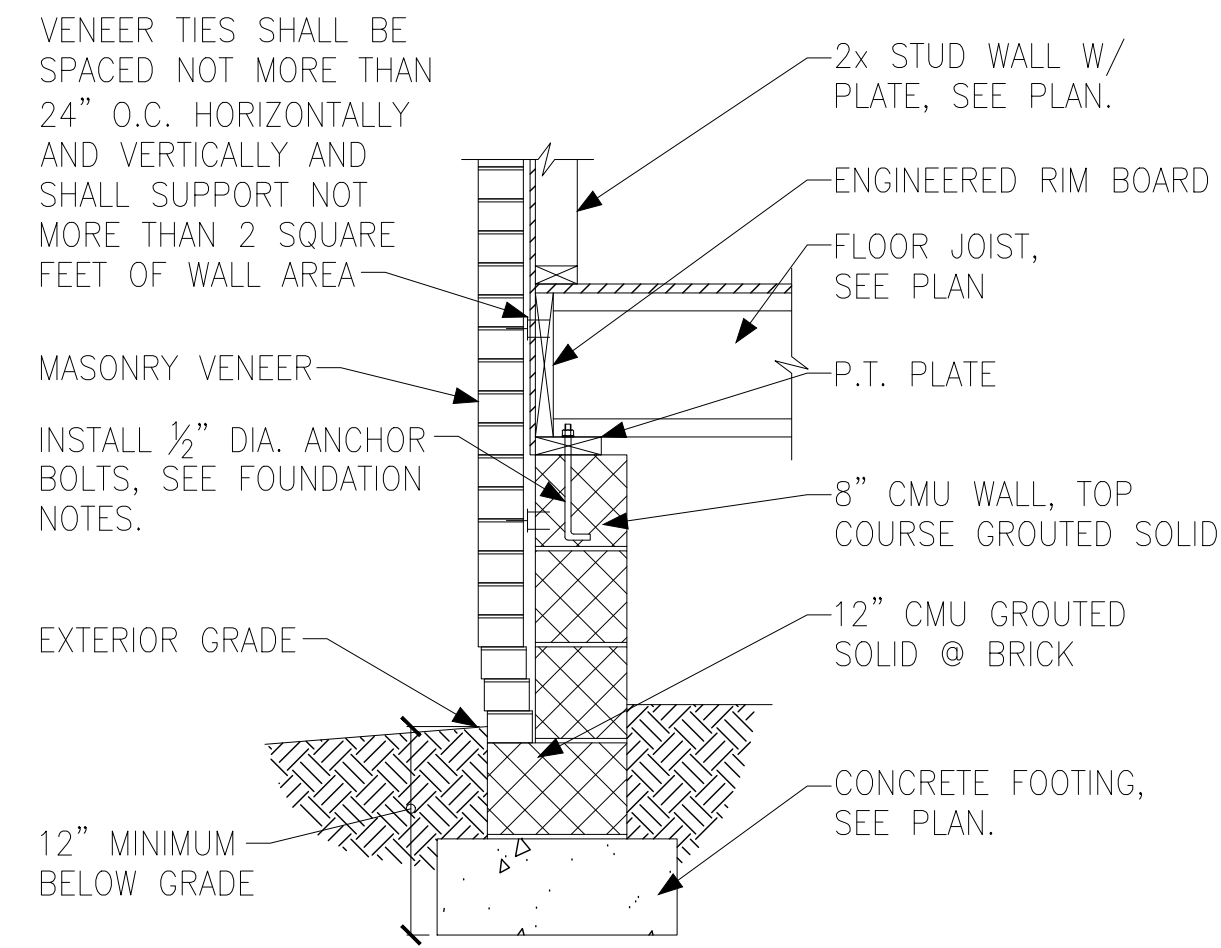


**E** GABLE END WALL DETAIL

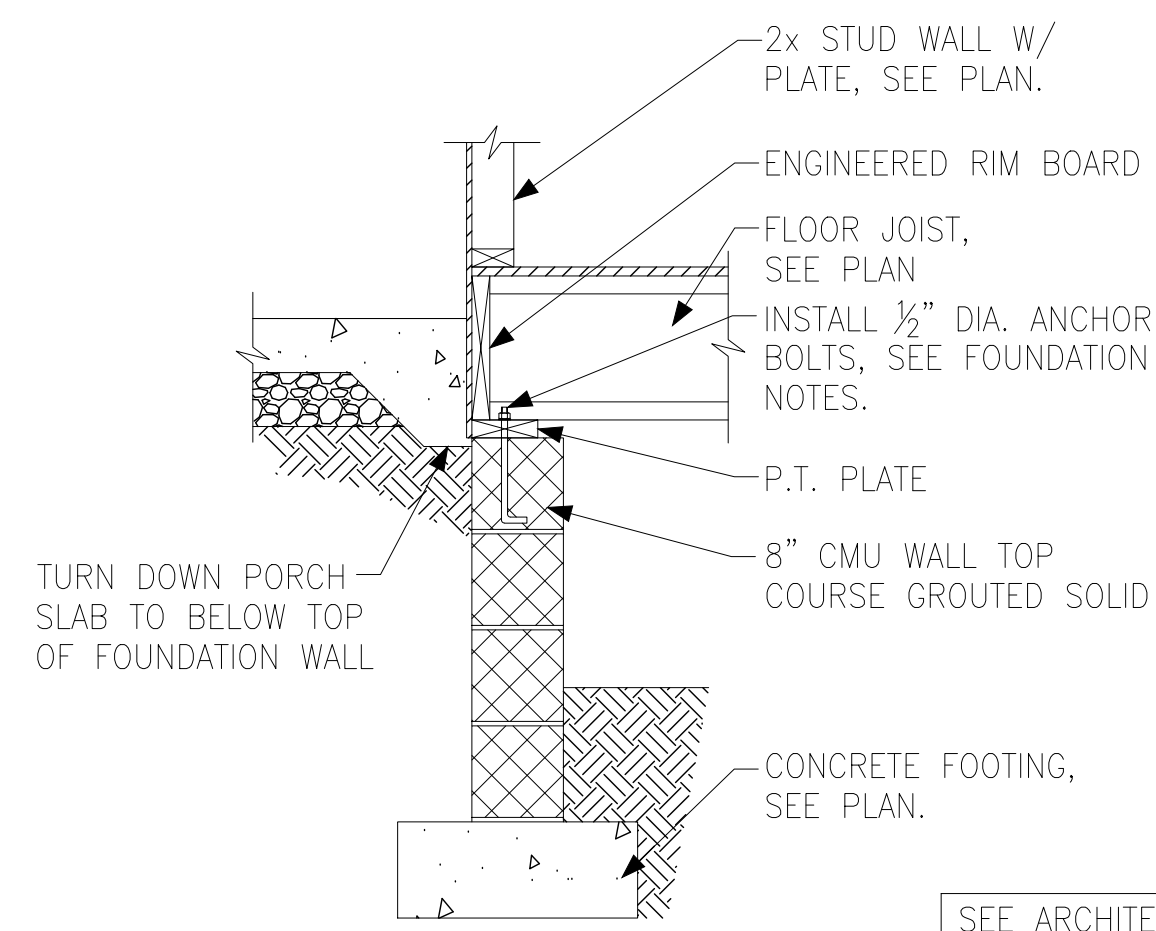




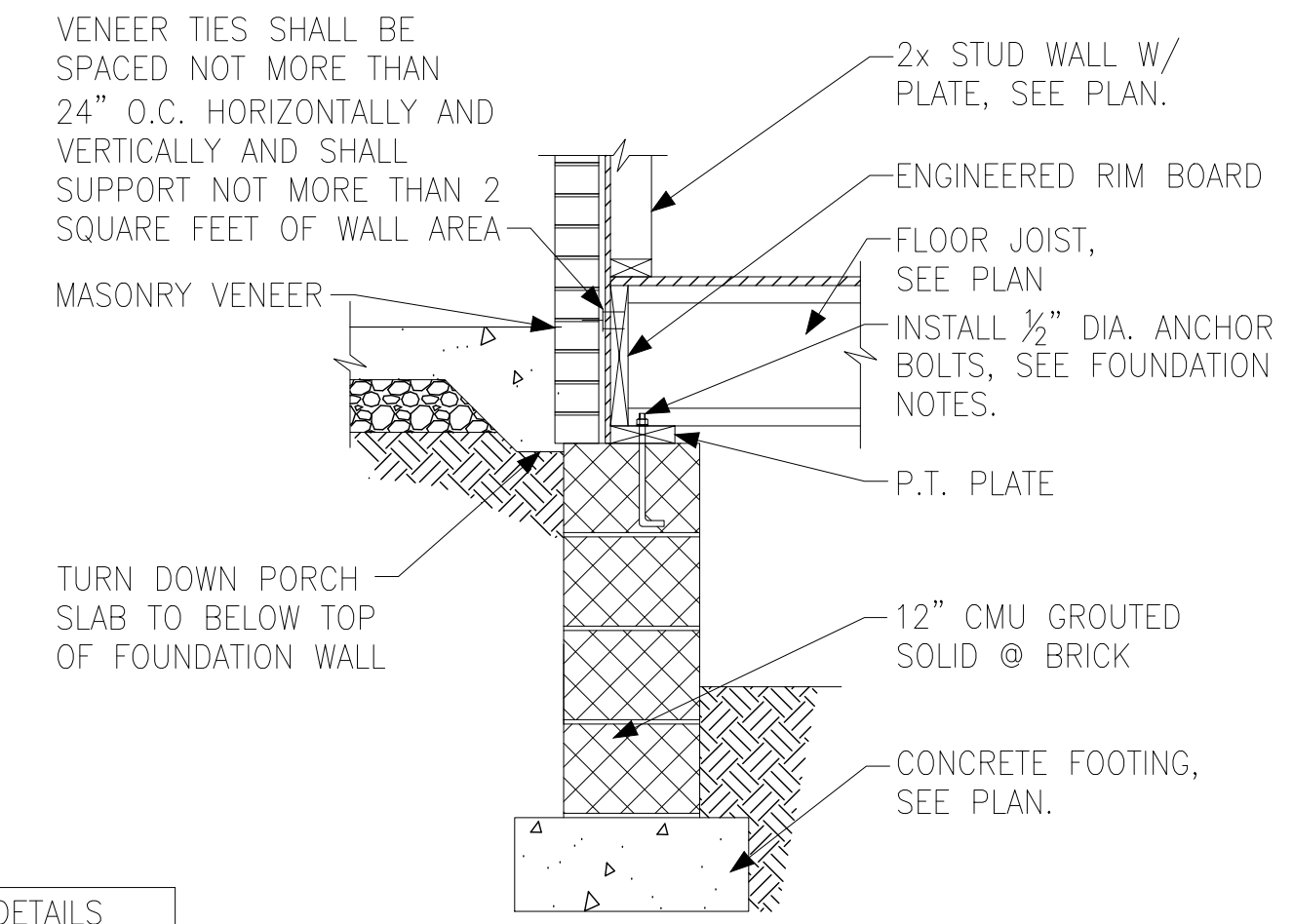
**A** FOUNDATION SECTION  
EXTERIOR WALL



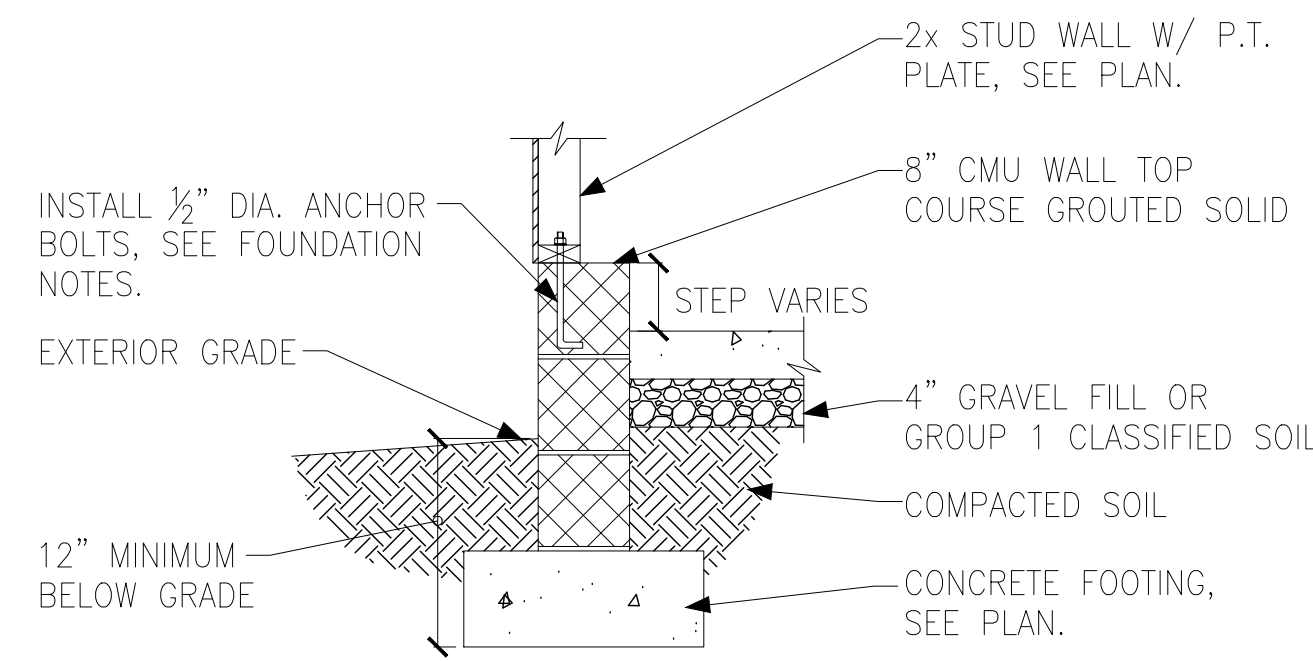
**B** FOUNDATION SECTION  
EXTERIOR WALL @ MASONRY  
VENEER



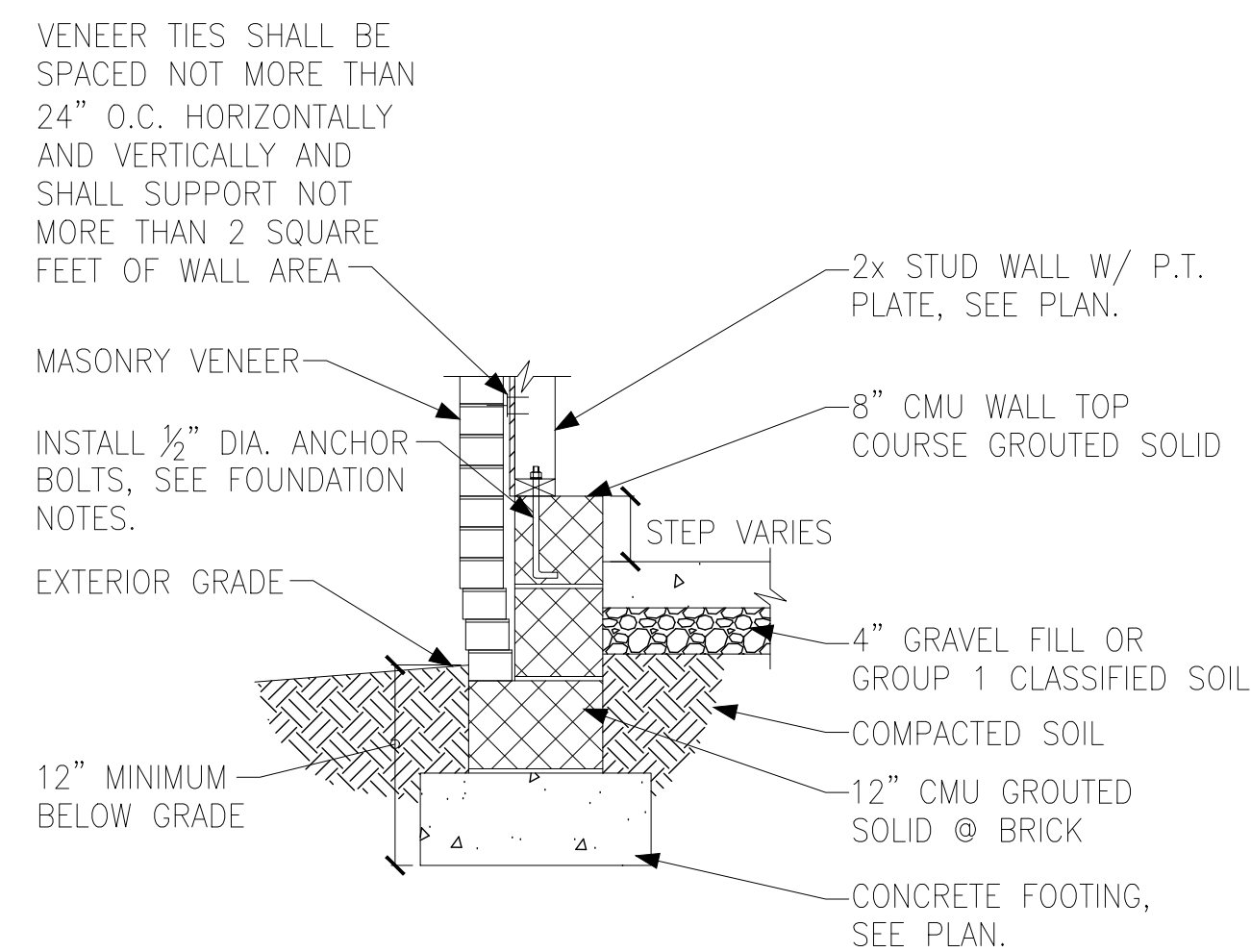
**C** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH



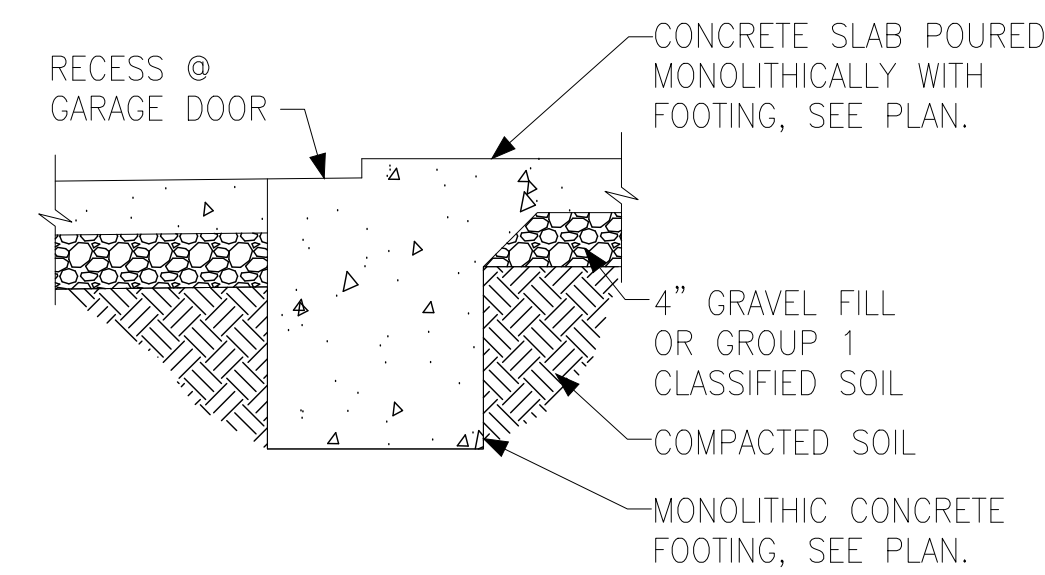
**D** FOUNDATION SECTION  
EXTERIOR WALL AT PORCH W/ MASONRY  
VENEER



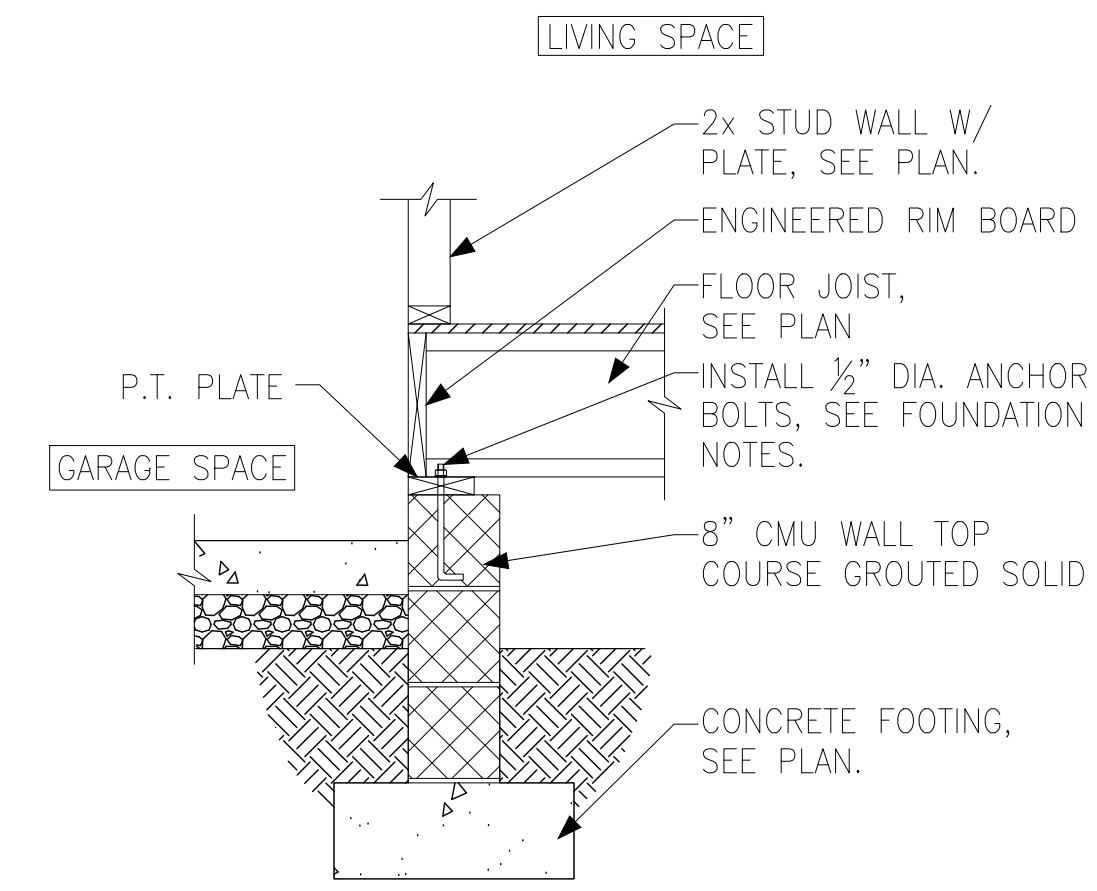
**E** FOUNDATION SECTION  
EXTERIOR GARAGE WALL



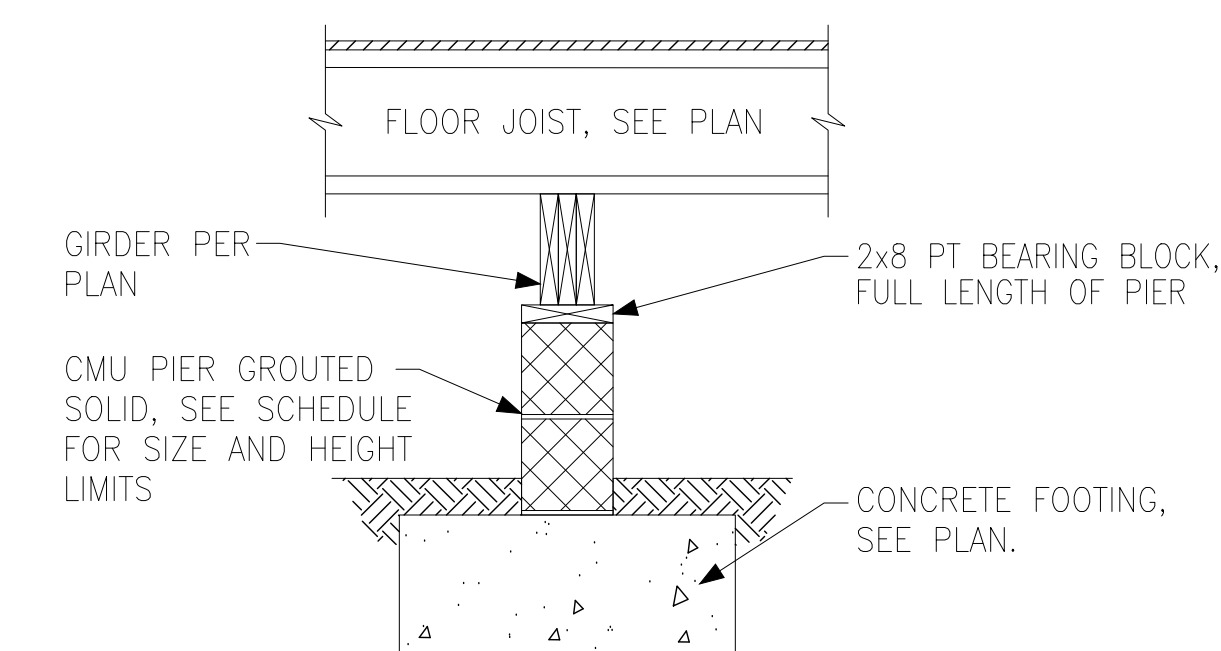
**F** FOUNDATION SECTION  
EXTERIOR GARAGE WALL @ MASONRY  
VENEER



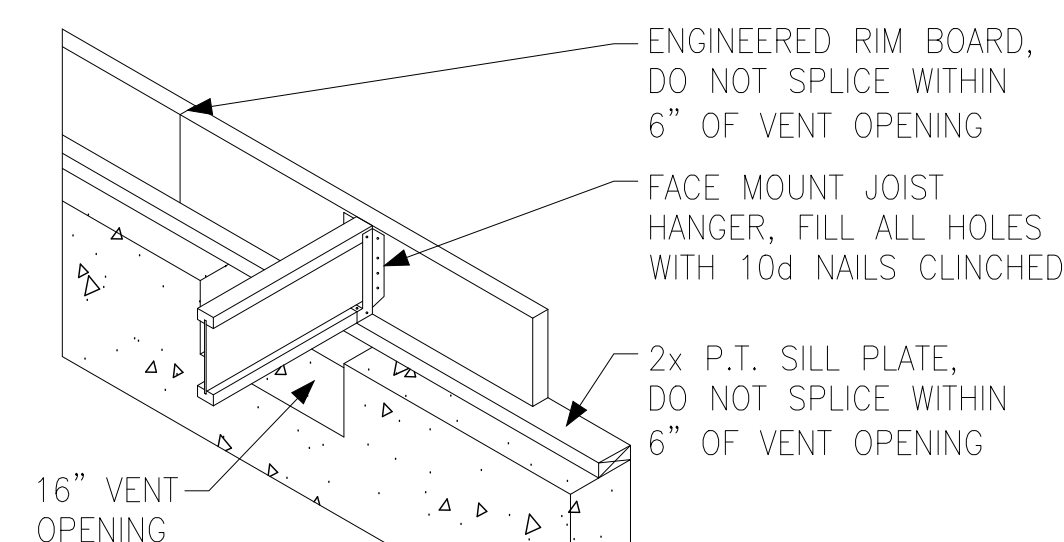
**G** FOUNDATION SECTION  
GARAGE DOOR



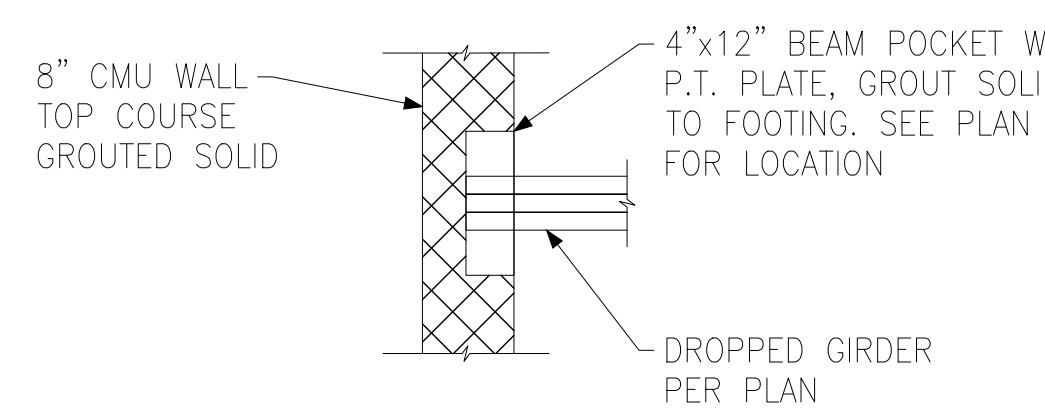
**H** FOUNDATION SECTION  
INTERIOR GARAGE WALL



**J** FOUNDATION SECTION  
INTERIOR PIER



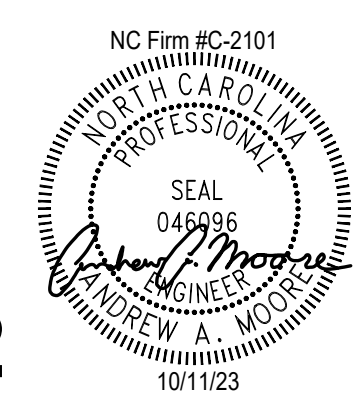
**K** CRAWL SPACE VENT DETAIL



**L** CRAWL SPACE BEAM POCKET DETAIL

PIER AND FOOTING SCHEDULE		
PIER HEIGHT	PIER SIZE	MIN. FOOTING SIZE
UP TO 2'-8"	8" x 16"	24" x 24" x 12" U.N.O.
UP TO 5'-4"	16" x 16"	24" x 24" x 12" U.N.O.
UP TO 8'-0"	16" x 16"	30" x 30" x 12" U.N.O.

NOTE:  
PIERS SHALL BE CAPPED WITH 8" OF SOLID MASONRY OR CONCRETE OR TOP COURSE FILLED SOLID WITH CONCRETE/MORTAR.  
PIERS OVER 5'-4" SHALL BE BE FILLED SOLIDLY WITH CONCRETE OR TYPE M OR S MORTAR.  
FOR PIERS OVER 8'-0" CONTACT KSE ENGINEERING FOR PIER AND FOOTING DESIGN.





**General Notes:**

- Per ANSI/TPI 1-2002 all " Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.
- Dimensions are Feet-Inches- Sixteenths.
- Trusses are to be 24" o.c. unless noted otherwise (U.N.O.)
- Trusses are not designed to support brick U.N.O.
- Do not cut or modify trusses without first contacting Builders FirstSource.
- Immediately contact Builders FirstSource if trusses are damaged.

**Connection Notes:**

- All hangers are to be Simpson or equivalent U.N.O.
- Use Manufacturer's specifications for all hanger connections U.N.O.
- Use 10d x 1 1/2" Nails in hanger connections to single ply roof girder trusses.

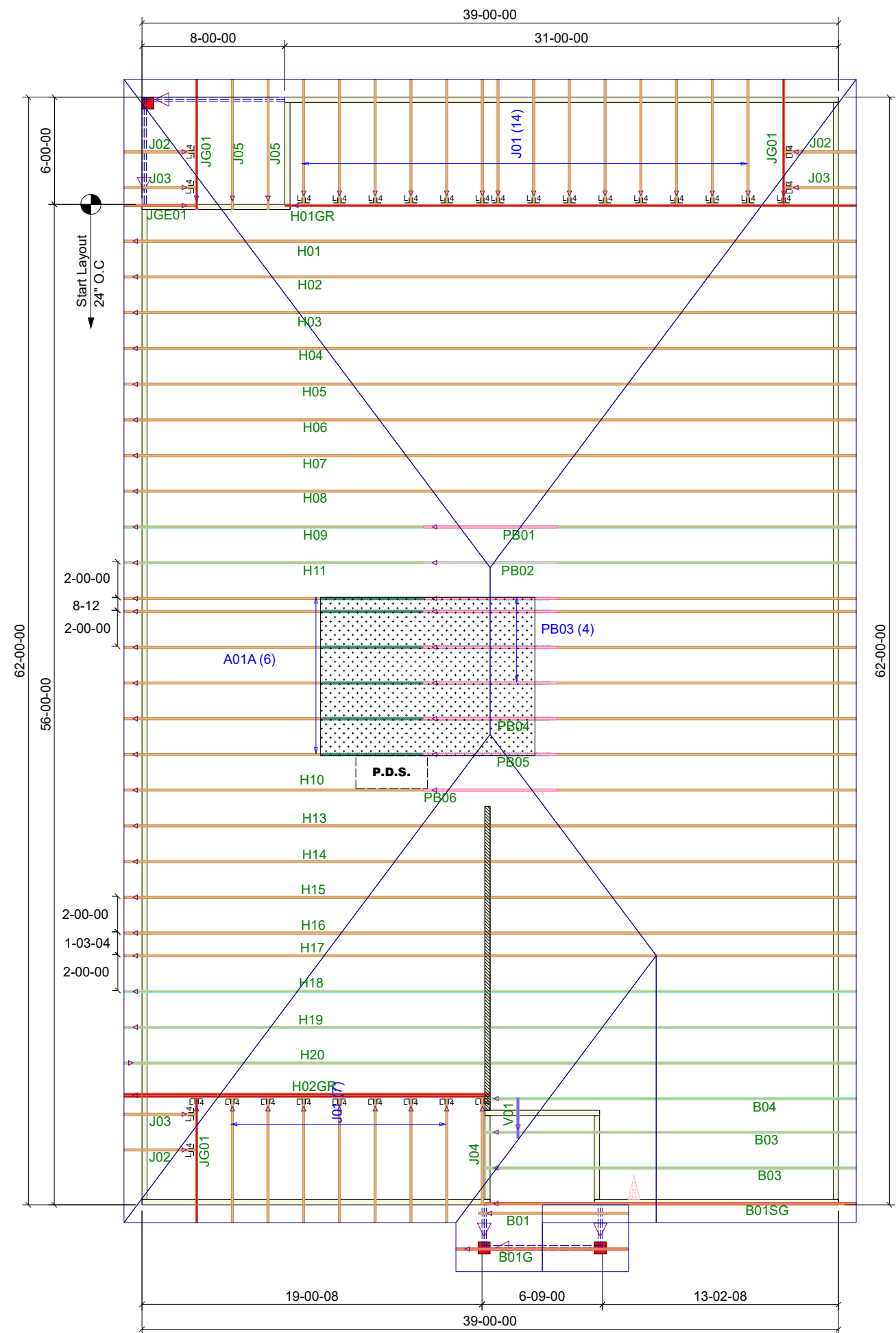
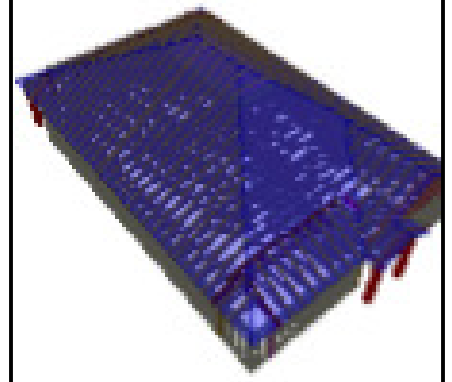
**Floor notes:**

- Shift truss as required to avoid plumbing traps.
- Installation Contractor and/or Field Supervisor are to verify all dimensions, trap locations, and options prior to installation

**Dimension Notes:**

- Drawing not to scale. Do not scale dimensions

△◁▷ LEFT END OF TRUSS AS SHOWN ON TRUSS DETAIL DRAWINGS ARE INDICATED BY TRIANGLE ICONS.



HANGER LIST		ALL TIE DOWNS H2.5A UNLESS NOTED	
30	LUS24	L <sub>14</sub>	<b>SPECIAL ITEMS LIST</b>
<b>MISC MATERIAL</b>			
DAVIDSON HOMES			
DAPHNE		ELEV:	C
LOT 52 WELLERS KNOLL			
ROOF	NC	LOT:	---
<b>APPWRIGHT #</b>			
3900720			
<b>CODE:</b> IRC 2015			
<b>LOADING:</b>			
T.C.L.L.		40 PSF	
<b>DESIGNED BY:</b>	NJH	T.C.D.L.	10 PSF
<b>LAYOUT:</b>	---	B.C.L.L.	0 PSF
<b>L/O DATE:</b>	3/8/2024	B.C.D.L.	5 PSF
<b>REVISION HISTORY</b>		<b>WIND:</b>	
REV1:	XX/XX/XX	M.P.H.	120 MPH
REV2:	XX/XX/XX	EXPOSURE CATEGORY	
REV3:	XX/XX/XX	B (WOODED AREAS/OTHERS)	
<b>PICK TICKET:</b>	---	<b>JOB NO.:</b>	---
<b>SALES NO.:</b>	---	<b>ACCT NO.:</b>	---
<b>HATCH LEGEND</b>			
	ATTIC ROOM		
	VOLUME CEILING		
	STICK FRAMING		