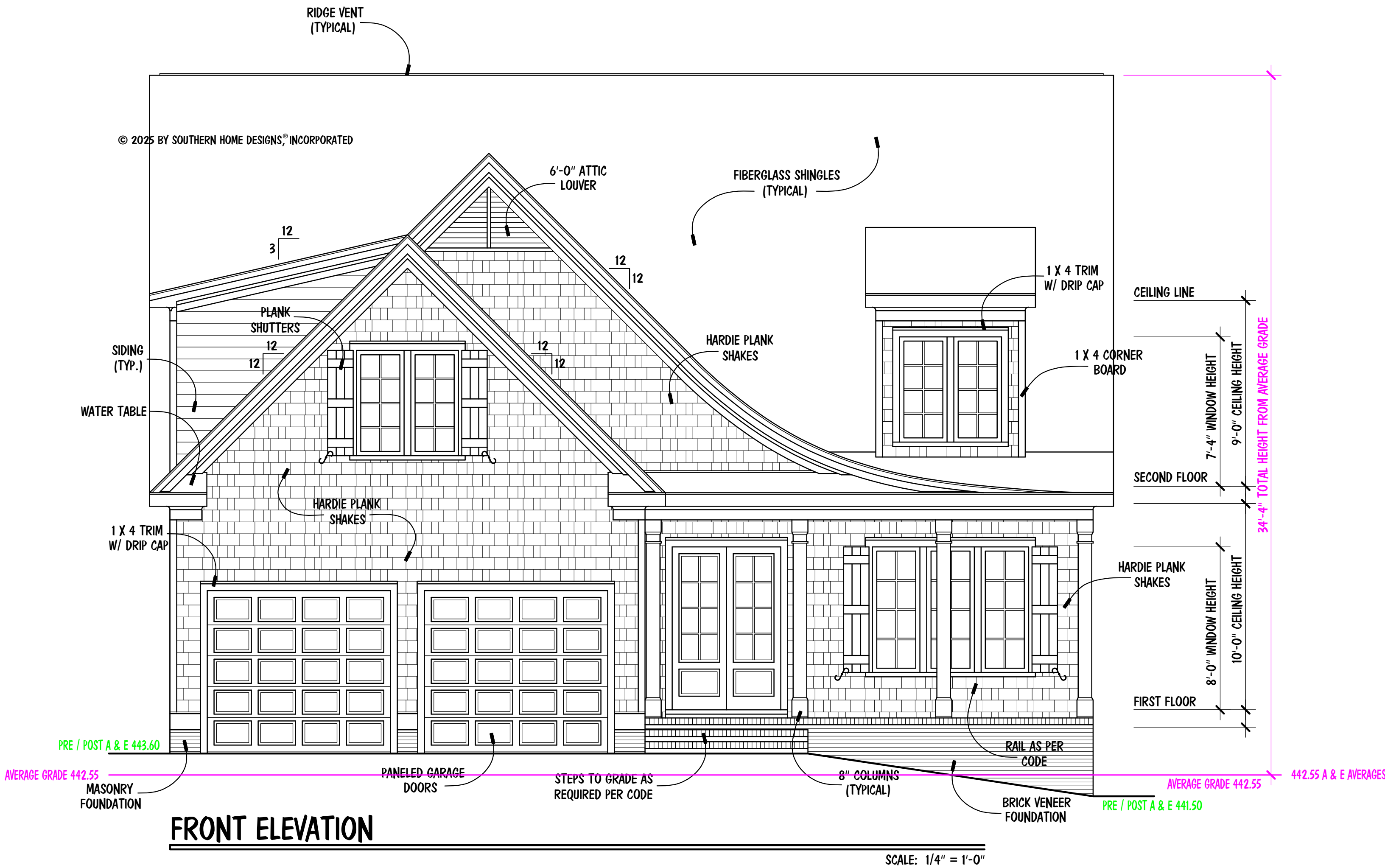
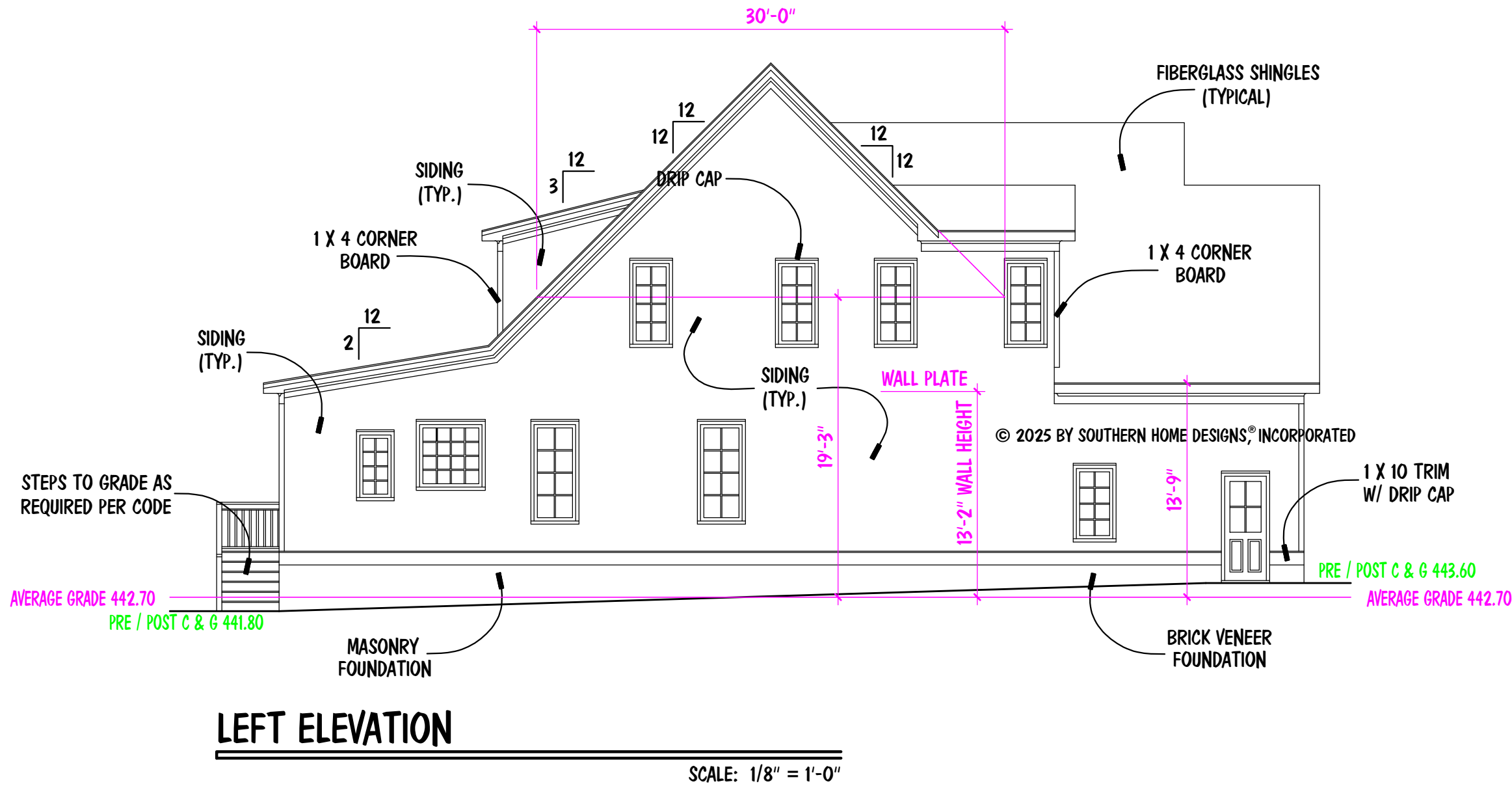
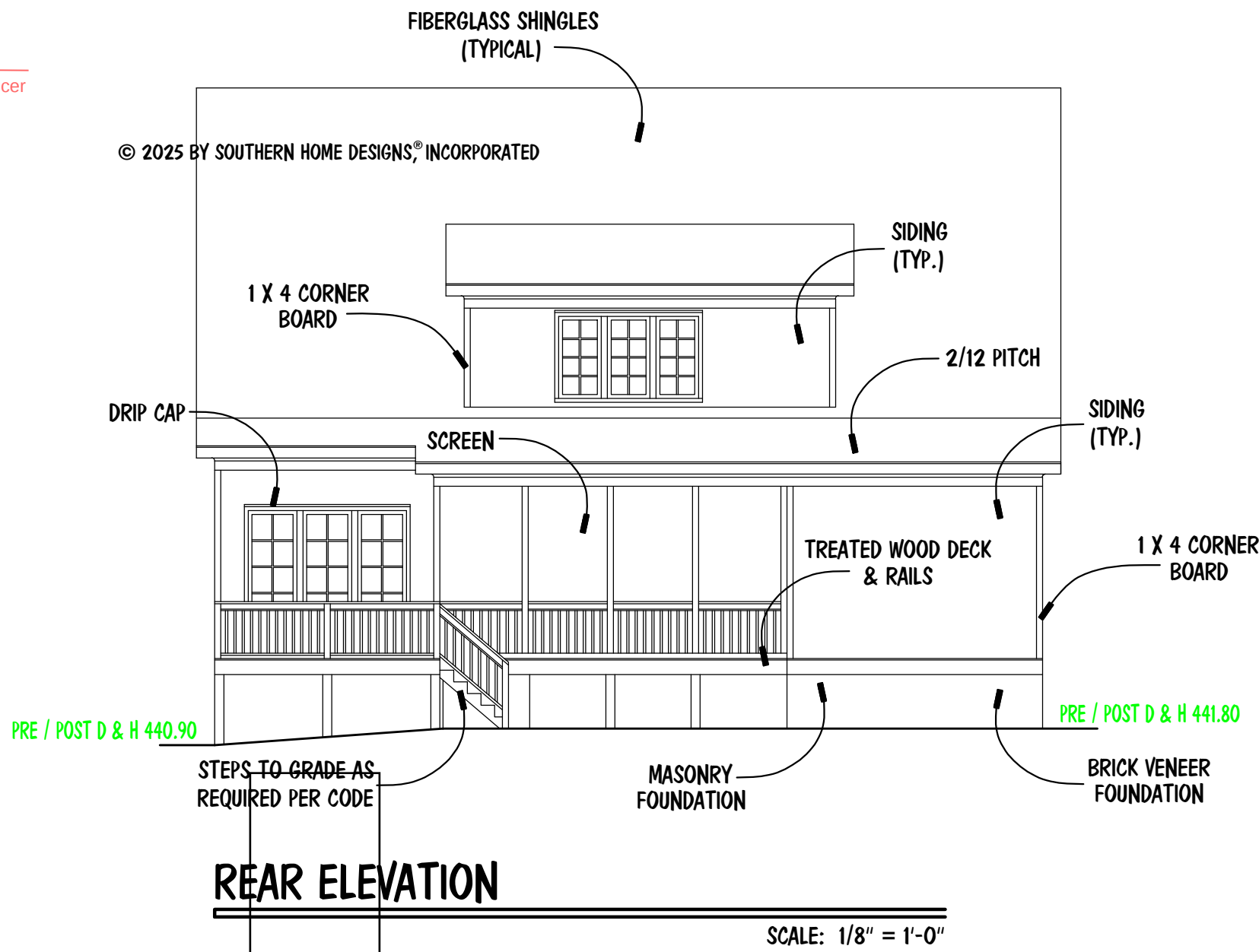
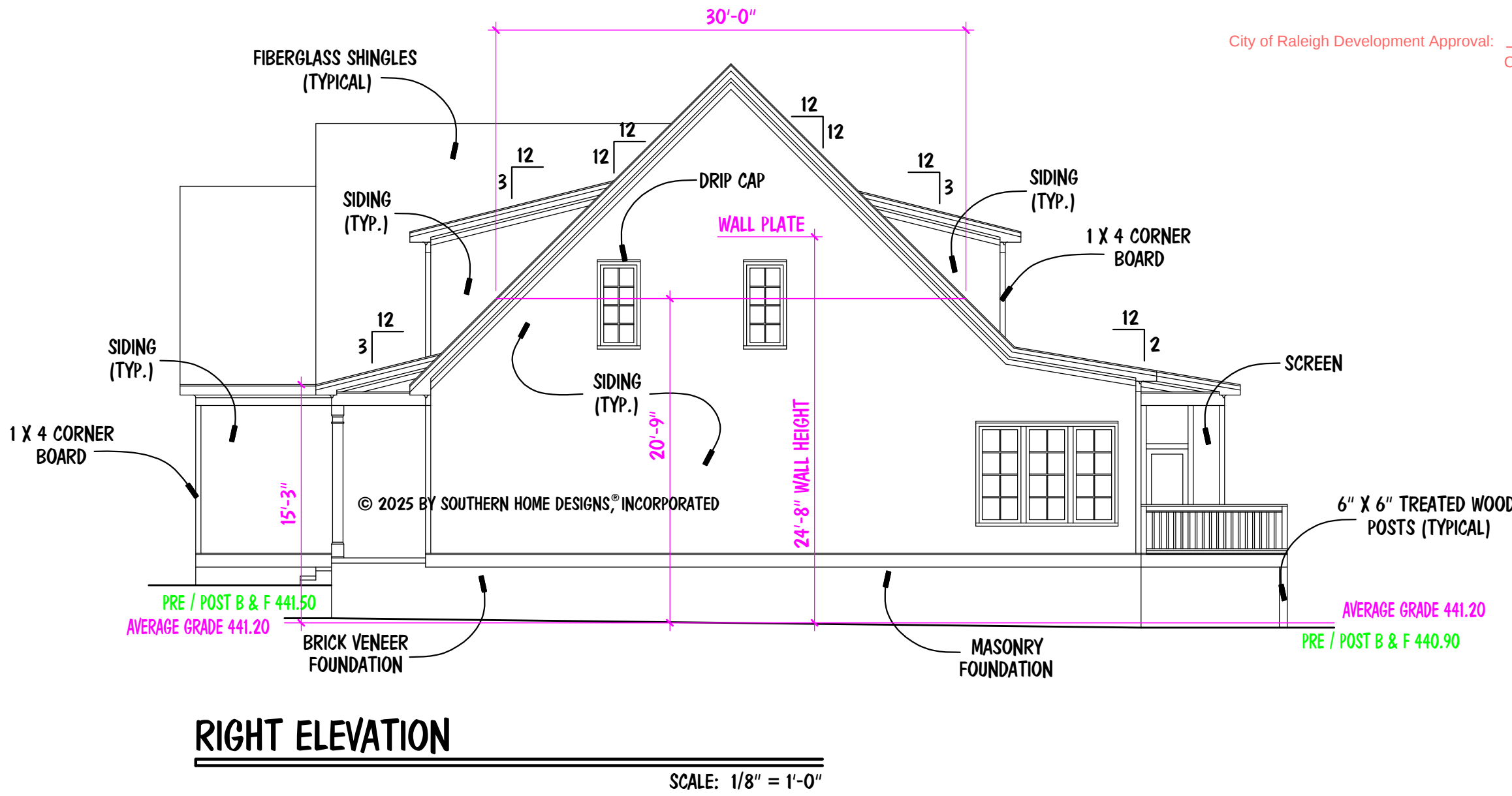


Plans for the proposed use have been reviewed for general compliance with applicable codes. This limited review, and authorization for construction is not to be considered to represent total compliance with all legal requirements for development and construction. The property owner, design consultants, and contractors are each responsible for compliance with all applicable City, State and Federal laws. This specific authorization below is not a permit, nor shall it be construed to permit any violation of City, State or Federal Law. All construction must be in accordance with all Local, State and Federal Rules and Regulations.

Electronic Approval: This approval is being issued electronically. This approval is valid only upon the signature of a City of Raleigh Review Officer below. The City will retain a copy of the approved plans. Any work authorized by this approval must proceed in accordance with the plans kept on file with the City. This electronic approval may not be edited once issued. Any modification to this approval once issued will invalidate this approval.

City of Raleigh Development Approval: Justin Greenwood
City of Raleigh Review Officer



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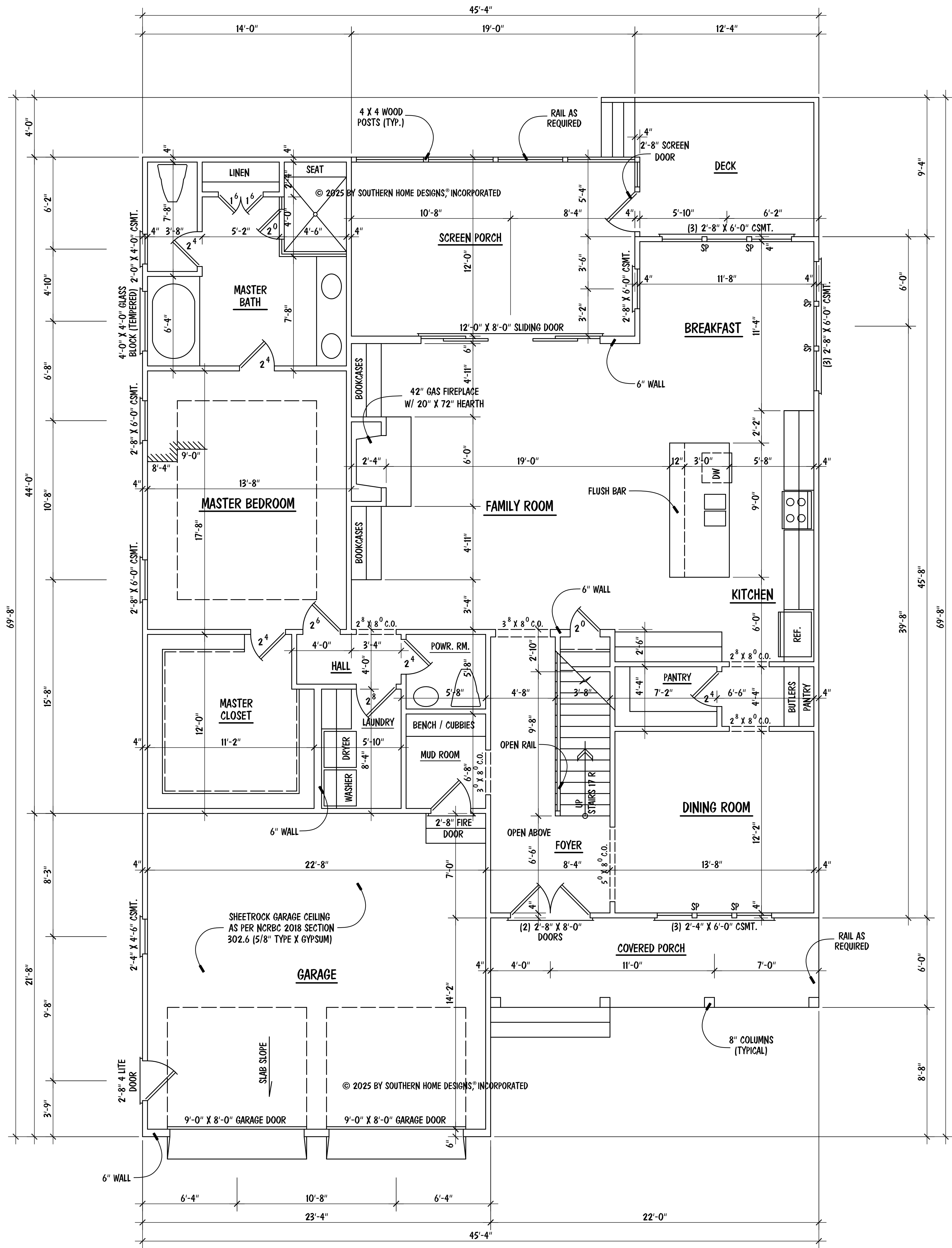
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Southern Home Designs
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301 South Salem Street, Suite 101, Apex, NC 27502
919.380.7400 Office 919.380.7464 Fax
Web: shdplans.com Email: shd@nc.rr.com

THE
LOREN 2025
305 GARY STREET

Smith Design Build Inc.

ENGR. #:
DATE: 02-12-25
SHEET: A-1
PLAN #: 25-021225



- NOTES:
- 10'-0" CEILING HGT. (TYP.) U.N.O.
 - SET WINDOWS @ 8'-0" A.F.F. (TYP.) U.N.O.
 - SET WINDOW IN MASTER TOILET @ 7'-4" A.F.F.
 - STAIRS: UP 17 R (TYP.), 1ST FLOOR TO 2ND FLOOR

NOTE:

CABINET AND ISLAND DIMENSIONS ARE NOT PERMANENT NOR FINIAL AND ARE SUBJECT TO CHANGE DURING CABINET DESIGN PROCESS. DIMENSIONS DRAWN ARE FOR A GENERAL GUIDE AND NOT FOR ACTUAL CABINET DESIGN.

SQUARE FOOTAGE	
FIRST FLOOR	1857
SECOND FLOOR	1532
TOTAL	3389
MISCELLANEOUS	
GARAGE	503
FRONT PORCH	132
SCREEN PORCH	230
DECK	113
STORAGE	177

FIRST FLOOR PLAN

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



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- PLAN #: 25-021225

THE
LOREN 2025
305 GARY STREET

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BLDR-015498-2025 FINAL PLAN SET.pdf

ENGINEER'S SEAL APPLIES ONLY TO STRUCTURAL COMPONENTS. ENGINEER'S SEAL DOES NOT CERTIFY DIMENSIONAL ACCURACY OR ARCHITECTURAL UTILITY INCLUDING ROOF SYSTEM. ENGINEER'S SEAL DOES NOT APPLY TO I-JOIST OR FLOOR/ROOF TRUSS LAYOUT DESIGN AND ACCURACY.

2. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE (NRCR), 2018 EDITION AND ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK.

3. DESIGN LOADS (R301)

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (LI)
ROOMS OTHER THAN SLEEPING ROOMS	40	10	L/360
SLEEPING ROOMS	30	10	L/360
ATTIC WITH LIMITED STORAGE	20	10	L/240
ATTIC WITHOUT STORAGE	10	10	L/360
DECKS	40	10	L/360
STAIRS	40	10	L/360
HANDRAILS	200 LB OR 50 PLF	10	L/360
PASSENGER VEHICLE GARAGES	50	10	L/360
GROUND SNOW LOAD	20		

WIND LOAD PER SECTION R301.2. (MEAN ROOF HEIGHT <35 FEET, EXPOSURE B)

- I-JOIST FLR. SYSTEMS DESIGNED WITH 12 PSF DL AND L/480 DEFLECTION.

4. THE STRUCTURE IS DESIGNED FOR 120 MPH ULTIMATE DESIGN WIND SPEEDS.

5. WALL CLADDING DESIGNED FOR +15.5 PSF AND -20 PSF (+/- INDICATE POSITIVE / NEGATIVE PRESSURE (TYP)).

6. ROOF CLADDING DESIGNED FOR +14.2 PSF AND -18 PSF FOR ROOF PITCHES 7/12 TO 12/12 AND +10 PSF AND -36 PSF FOR ROOF PITCHES 2.25/12 TO 7/12.

7. THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS IS 25 PSF.

8. FOUNDATION DESIGN BASED ON A MINIMUM ALLOWABLE BEARING CAPACITY OF 2000 PSF. CONTACT ENGINEER IF ALLOWABLE BEARING CAPACITY CAN NOT BE ACHIEVED.

9. FOUNDATION ANCHORAGE TO COMPLY WITH SECTION R403.1.6 OF THE 2018 NRCR.

10. FOR ALL CONCRETE SLABS AND FOOTINGS, THE AREA WITHIN THE PERIMETER OF THE BUILDING ENVELOPE SHALL HAVE ALL VEGETATION, TOP SOIL AND FOREIGN MATERIAL REMOVED. FILL MATERIAL SHALL BE FREE OF VEGETATION AND FOREIGN MATERIAL. THE FILL SHALL BE COMPACTED TO 95% TO ASSURE UNIFORM SUPPORT OF THE SLAB, AND EXCEPT WHERE APPROVED, THE FILL DEPTHS SHALL NOT EXCEED 24" FOR CLEAN SAND OR GRAVEL. A 4" THICK BASED COURSE CONSISTING OF CLEAN GRADED SAND OR GRAVEL SHALL BE PLACED. A BASE COURSE IS NOT REQUIRED WHERE A CONCRETE SLAB IS INSTALLED ON WELL-DRAINED OR SAND-GRAVEL MIXTURE SOILS CLASSIFIED AS GROUP 1, ACCORDING TO THE UNITED STATES SOIL CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE NRCR, 2018 EDITION.

11. CONCRETE SHALL CONFORM TO SECTION R402.2 OF THE NRCR, 2018 EDITION. CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI. CONCRETE REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. WELDED WIRE FABRIC SHALL BE ASTM A185. MAINTAIN A MINIMUM CONCRETE COVER AROUND REINFORCING STEEL OF 3" IN FOOTINGS AND 1 1/2" IN SLABS.

12. MASONRY UNITS TO CONFORM TO ACE 530/ASCE 5/TMS 402. MORTAR SHALL CONFORM TO ASTM C270.

13. THE UNSUPPORTED HEIGHT OF MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION FOR UNFILLED HOLLOW CONCRETE MASONRY UNITS AND TEN TIMES THEIR LEAST DIMENSION FOR SOLID OR SOLID FILLED PIERS. PIERS MAY BE FILLED SOLID WITH CONCRETE OR TYPE M OR S MORTAR. PIERS AND WALLS SHALL BE CAPPED WITH 8" OF SOLID MASONRY.

14. THE CENTER OF EACH PIER SHALL BEAR IN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING. EACH GRIDER SHALL BEAR IN THE MIDDLE THIRD OF E. PIER.

15. ALL CONCRETE AND MASONRY FOUNDATION WALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION R404 OF THE 2018 NRCR, OR IN ACCORDANCE WITH ACI 318, ACI 332, NOMA TR88-A4 OR ACE 530/ASCE 5/TMS 402. MASONRY FOUNDATION WALLS SHALL BE REINFORCED PER TABLE R404.1.1(1), R404.1.1(2), R404.1.1(3), OR R404.1.1(4) OF THE 2018 NRCR. CONCRETE FOUNDATION WALLS SHALL BE REINFORCED PER TABLE R404.1.1(5) OF THE NRCR, 2018 EDITION. STEP FOUNDATION WALLS TO 2 x 6 FRAMED WALLS AT 16" O.C. WHERE GRADE PERMITS (UNO).

16. LAMINATED VENEER LUMBER (LVL) SHALL HAVE THE FOLLOWING MIN. PROPERTIES: Fb = 2600 PSI, Fv = 285 PSI, E = 1900000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S SPECIFICATIONS.

17. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:

A. W AND Wt SHAPES: ASTM A992

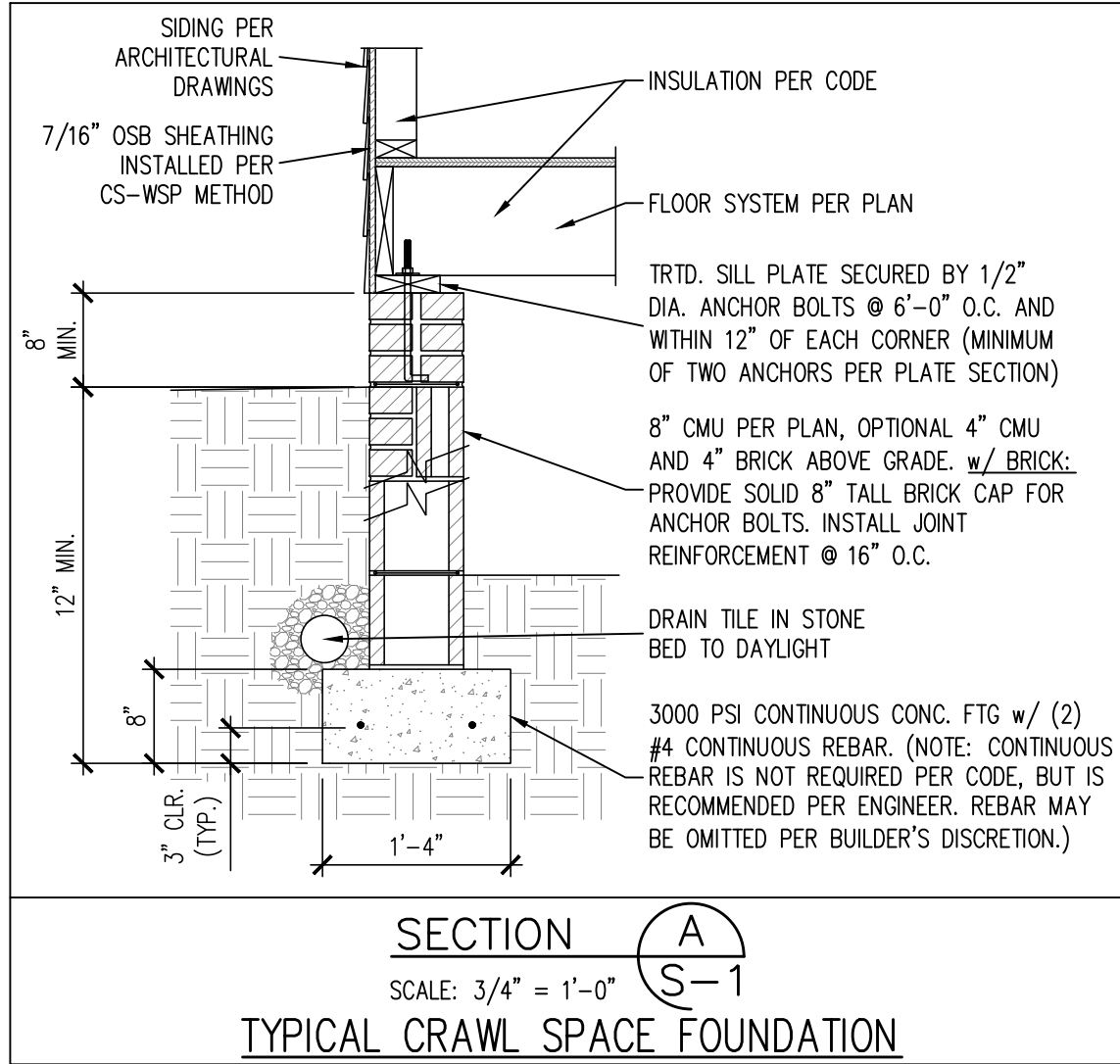
B. CHANNELS, ANGLES, PLATES, AND BARS: ASTM A36

18. STEEL BEAMS SHALL BEAR FULLY ON THE NUMBER OF JACK STUDS NOTED ON THE PLANS OR ON CONCRETE MASSION MIN. 4" UNO). ANCHOR STEEL BEAMS AT BEARING AS FOLLOWS:

A. WOOD FRAMING: (2) 1/2" DIA. x 4" LAG SCREWS

19. ALL LOAD BEARING HEADERS SHALL CONFORM TO TABLES R602.7(1) AND R602.7(2) OF THE 2018 NRCR UNLESS NOTED OTHERWISE ON THE PLANS. ALL HEADERS SHALL BE SUPPORTED WITH (1) JACK STUD AND (1) KING STUD EACH END (UNO). SECURE THE FIRST KING STUD EACH SIDE OF THE HEADER TO THE HEADER WITH (4) 16d END-NAILS. INSTALLS KING STUDS PER SECTION R602.7.5 OF THE 2018 NRCR (UNO).

20. ALL I-JOIST LAYOUTS SHALL BE IN COMPLIANCE WITH THE OVERALL DESIGN SPECIFIED ON THE PLANS. IF ALTERNATE I-JOISTS ARE USED, THE JOISTS MUST HAVE EQUIVALENT STRUCTURAL PROPERTIES TO THOSE SPECIFIED ON THE PLANS. ALL DEVIATIONS TO I-JOIST LAYOUTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.



LEGEND	
	STUD COLUMN ON FLOOR ABOVE THAT REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.
	PLUMBING OR APPLIANCES ON THE FLOOR ABOVE TO HELP ELIMINATE FRAMING CONFLICTS WITH UTILITIES. (FOR REFERENCE ONLY, SEE ARCHITECTURAL DRAWINGS)
	NEW BEAM OR GIRDER AS NOTED
(UNO)	UNLESS NOTED OTHERWISE

CRAWL SPACE VENTILATION

1857 SQ. FT. OF CRAWL AREA / 150 = **12.38** SQ. FT.
OF FREE VENT AREA REQUIRED

SEE SECTION R408.1 OF 2018 NCRBC (2015 IRC)

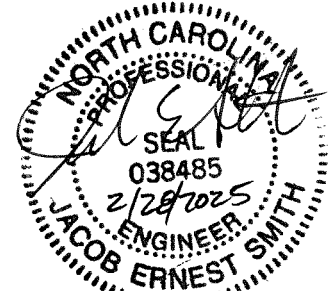
FREE VENT AREA REQUIRED MAY BE REDUCED TO 1/1500
IF APPROVED VAPOR BARRIER IS INSTALLED OVER 100%
OF CRAWL FLOOR AREA AND VENTS ARE INSTALLED TO
PERMIT CROSS- VENTILATION OF CRAWL SPACE.

SEE SECTION R408.1.1.

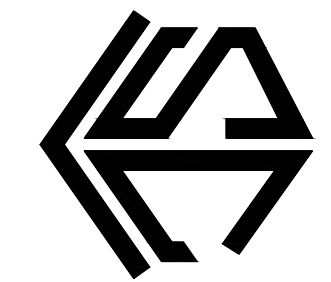
CRAWL SPACE STRUCTURAL NOTES

1. ALL FRAMING LUMBER TO BE #2 SPF (UNO). ALL TREATED LUMBER TO BE #2 SPY (UNO).
2. INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO THE FLOOR JOISTS WHERE NOTED ON THE PLANS.
3. SHADED PIERS TO BE FILLED SLOD.
4. INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. (MIN (2) ANCHORS PER PLATE SECTION) ANCHOR BOLTS MUST EXCEED A MINIMUM CLASSTY OR CONCRETE. LOCATE TOP WITHIN MIDDLE THIRD OF PLATE WIDTH.
5. INSTALL JOIST REINFORCEMENT @ 16" O.C. TO SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER.
6. REFER TO NOTES AND DETAIL PAGES FOR ADDITIONAL INFORMATION.

PREPARED UNDER THE SUPERVISION OF:



**J.J. SMITH STRUCTURAL
ENGINEERING, PLLC**



THE LOREN 2025
305 GARY STREET
SMITH DESIGN BUILD, INC.

REVISIONS:

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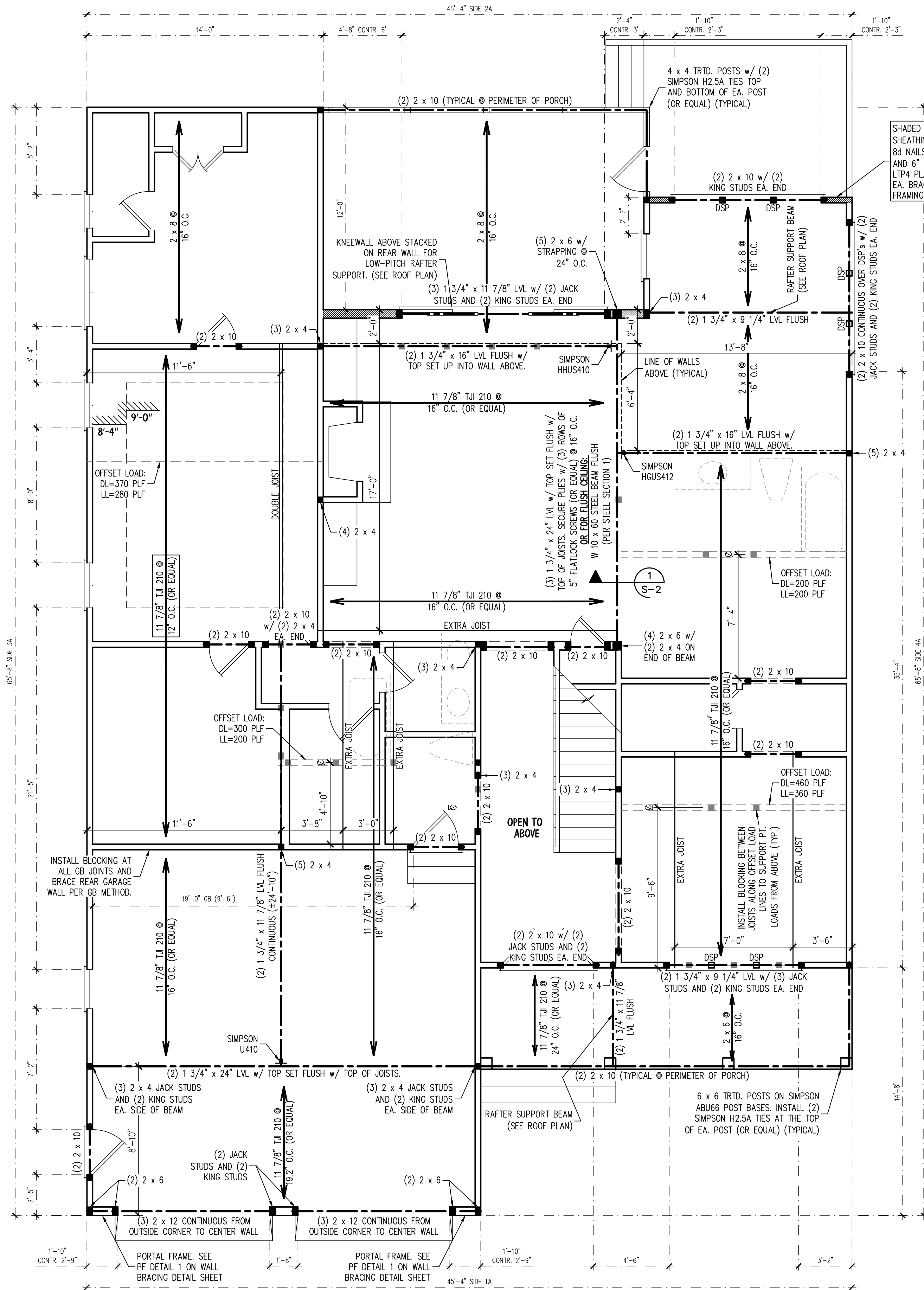
ENGINEERED BY: J. SMITH

SCALE: 1/4" = 1'-0" (UNO)

DATE: 2-28-2025

SHEET: **1** OF: **5**

S-1
CRAWL SPACE
FOUNDATION PLAN



SHADED WALLS INDICATE 7/16" OSB SHEATHING w/ BLOCKED JOINTS SECURED w/ 8d NAILS SPACED @ 3" O.C. ALONG EDGES AND 6" O.C. IN THE FIELD. INSTALL SIMPSON LTP4 PLATES IN THE BOTTOM CORNERS OF EA. BRACED WALL PANEL TO SECURE WALL FRAMING TO FLOOR FRAMING BELOW.

BRACED WALL DESIGN NOTES:

- BRACED WALL DESIGN PER SECTION R602.10 OF THE NRC 2018 EDITION.
- CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB SHEATHING SHALL BE INSTALLED ON ALL SHEATHABLE SURFACES OF ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113" DIA.) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UNO).
- "GB" REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. WHERE NOTED ON THE PLANS, 1/2" (MIN.) GYPSUM WALL BOARD SHALL BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" #6 SCREWS OR 1 5/8" 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND 7" O.C. ALONG INTERMEDIATE SUPPORTS (UNO).
- SEE NOTES AND DETAIL SHEETS FOR ADDITIONAL BRACED WALL INFORMATION.

BRACED WALL DESIGN SUMMARY:

SIDE 1A	SIDE 3A
METHOD: CS-WSP/PF/GB	METHOD: CS-WSP
REQUIRED LENGTH: 17.2'	REQUIRED LENGTH: 12.1'
PROVIDED LENGTH: 24.33'	PROVIDED LENGTH: 59.5'
SIDE 2A	SIDE 4A
METHOD: CS-WSP/ENG. DESIGN	METHOD: CS-WSP
REQUIRED LENGTH: 17.2'	REQUIRED LENGTH: 12.1'
PROVIDED LENGTH: 27.5'	PROVIDED LENGTH: 50'

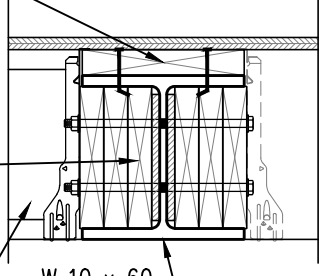
FIRST FLOOR CEILING FRAMING STRUCTURAL NOTES:

- ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
- ALL LOAD BEARING HEADERS TO BE (2) 2 x 10 (UNO).
- WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.)
- INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO THE JOISTS WHERE NOTED ON THE PLANS.
- SECURE STEEL BEAMS TO WOOD FRAMING AT BEARING w/ (2) 1/2" x 3 1/2" LAG SCREWS.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

1 5/8" THICK NAILER SECURED TO TOP FLANGE w/ CONSTRUCTION ADHESIVE AND (2) ROWS OF 16d NAILS @ 48" O.C. CLINCHED. SET TOP OF NAILER FLUSH w/ TOP OF FLOOR SYSTEM

PACK OUT WEB w/ (1) LAYER OF 1/2" OSB AND (3) 2x RIPPED TO FIT. SECURE w/ (2) ROWS OF 1/2" THROUGH BOLTS @ 24" O.C.

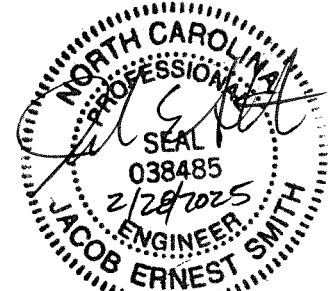
11 7/8" I-JOISTS PER PLAN SECURED w/ FACE-MOUNT HANGERS



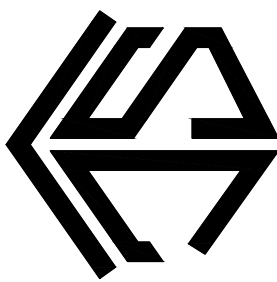
SECTION 1 S-2
SCALE: 1" = 1'-0"
OPTIONAL FLUSH STEEL BEAM

LEGEND

■	STUD COLUMN AT POINT LOADS THAT REQUIRE SOLID BLOCKING TO ORDER OR FOUNDATION. AT DROPPED HEADERS: (1) JACK STUD AND (1) KING STUD (UNO).
■	AT FLUSH BEAMS AND (UNO): (2) STUDS (UNO)
---	BEAM OR HEADER AS NOTED
△	THIS LINE TYPE INDICATES PLUMBING OR APPLIANCES ON THE FLOOR ABOVE. TO HELP ELIMINATE FRAMING CONFLICTS WITH UTILITIES. (FOR REFERENCE ONLY, SEE ARCHITECTURAL DRAWINGS)
DSP	DOUBLE STUD POCKET BETWEEN WINDOW UNITS
X-X	BRACED WALL DIMENSIONS (FOR REFERENCE ONLY)
(UNO)	UNLESS NOTED OTHERWISE



J. SMITH STRUCTURAL ENGINEERING, PLLC
P.O. BOX 73, BEAUFORT, NC 28516
OFFICE LOCATION: 204 CAMPEN ROAD
(919) 864-1430 • jsmithstructural@gmail.com
N.C. CERTIFICATE NUMBER: P-2212



THE LOREN 2025
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SMITH DESIGN BUILD, INC.

REVISIONS:

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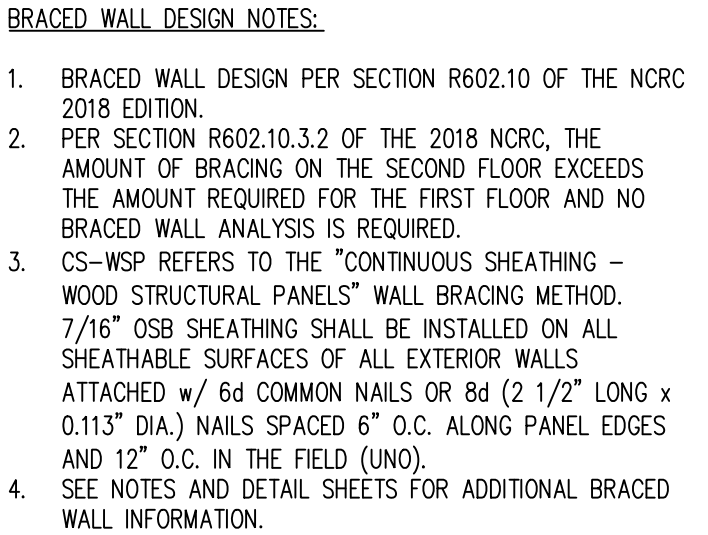
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SCALE: 1/4" = 1'-0" (UNO)

DATE: 2-28-2025

SHEET: 2 OF: 5

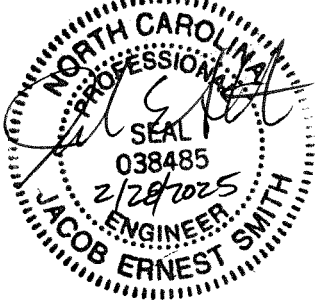
S-2
FIRST FLOOR
CEILING FRAMING
PLAN



1. ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 10 (UNO).
3. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.)
4. INSTALL 2 x 4 COLLAR TIES @ 32" O.C. MAX. IN ALL ATTIC SPACES.
5. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

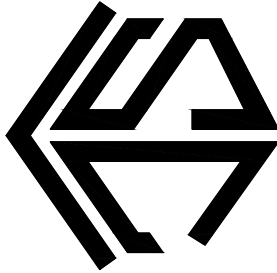
LEGEND	
■	STUD COLUMN AT POINT LOADS THAT REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. AT DROPPED HEADERS: (1) JACK STUD AND (1) KING STUD (UNO). AT FLUSH BEAMS AND (UNO): (2) STUDS (UNO)
---	BEAM OR HEADER AS NOTED
DSP	DOUBLE STUD POCKET BETWEEN WINDOW UNITS
(UNO)	UNLESS NOTED OTHERWISE

PREPARED UNDER THE SUPERVISION OF:



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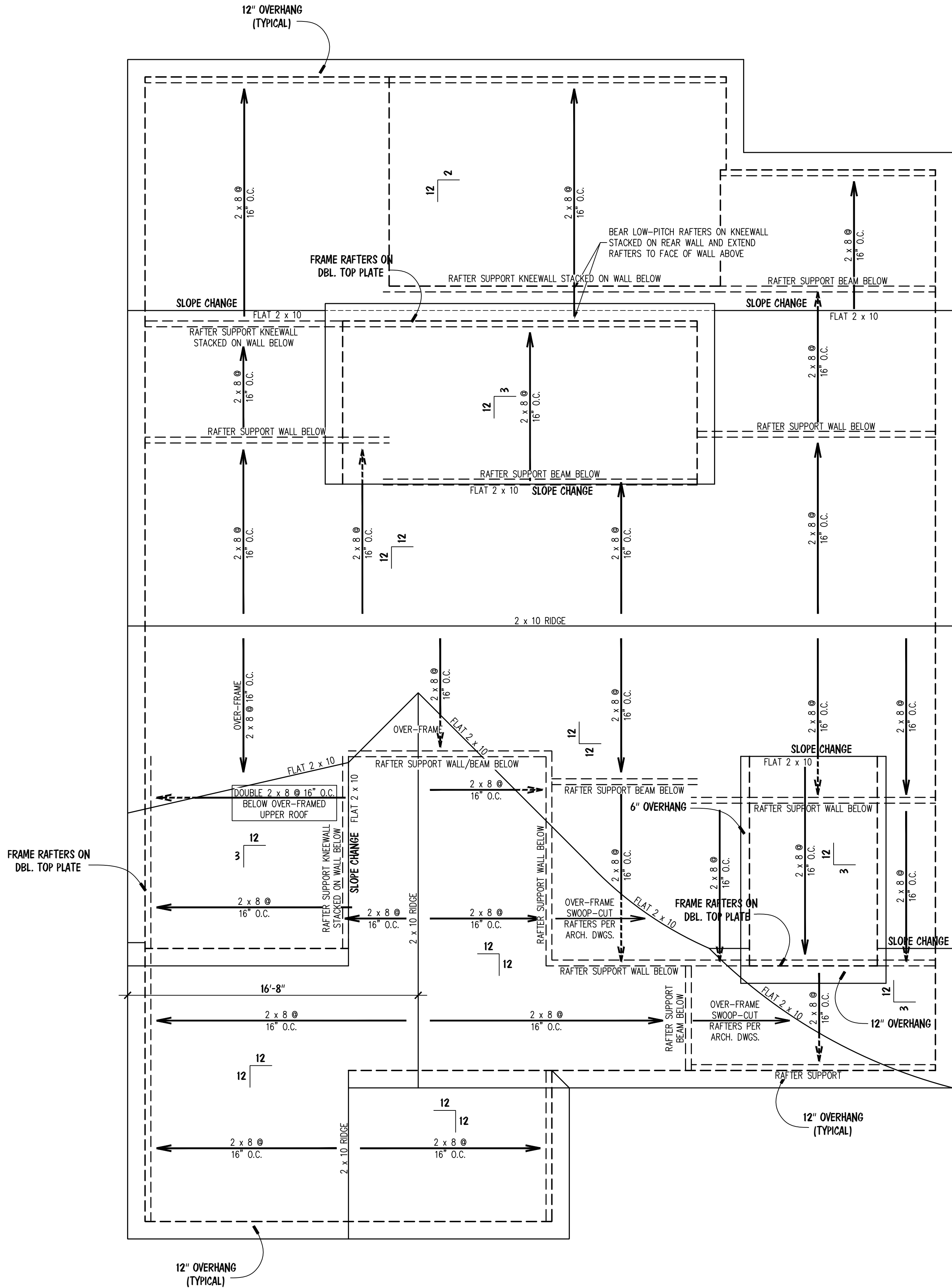
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SCALE: 1/4" = 1'-0" (UNO)

DATE: 2-28-2025

SHEET: 3 OF: 5

S-3
SECOND FLOOR
CEILING FRAMING
PLAN



NOTES:

- MEAN ROOF HEIGHT FOR THIS STRUCTURE IS 23'-1"

ATTIC VENTILATION:

2722 SQUARE FEET = 9.07 REQUIRED
300

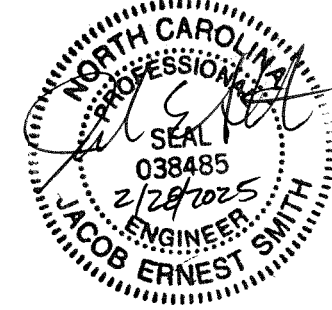
THE NET FREE AREA OF VENTILATION REQUIRED IS TO BE

9.07 SQUARE FEET.

ROOF FRAMING STRUCTURAL NOTES:

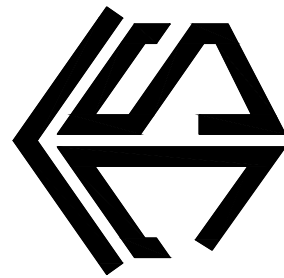
1. ALL FRAMING LUMBER TO BE #2 SPF (UNO).
2. SHEATH ROOF w/ 7/16" OSB SHEATHING SECURED w/ 8d NAILS @ 6" O.C. ALONG EDGES AND 12" O.C. IN THE FIELD.
3. STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS.
4. FASTEN FLAT VALLEYS TO RAFTERS WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING IF REQUIRED. SECURE RAFTERS TO FLAT VALLEYS WITH A MIN. OF (6) 12d TOE NAILS.
5. INSTALL (1) SIMPSON H2.5A HURRICANE TIE (OR EQUAL) @ EA. RAFTER BEARING. INSTALL (2) H2.5A HURRICANE TIES AT RIDGE BEAM, STRUCTURAL VALLEY, AND HIP BEARING POINTS.
6. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

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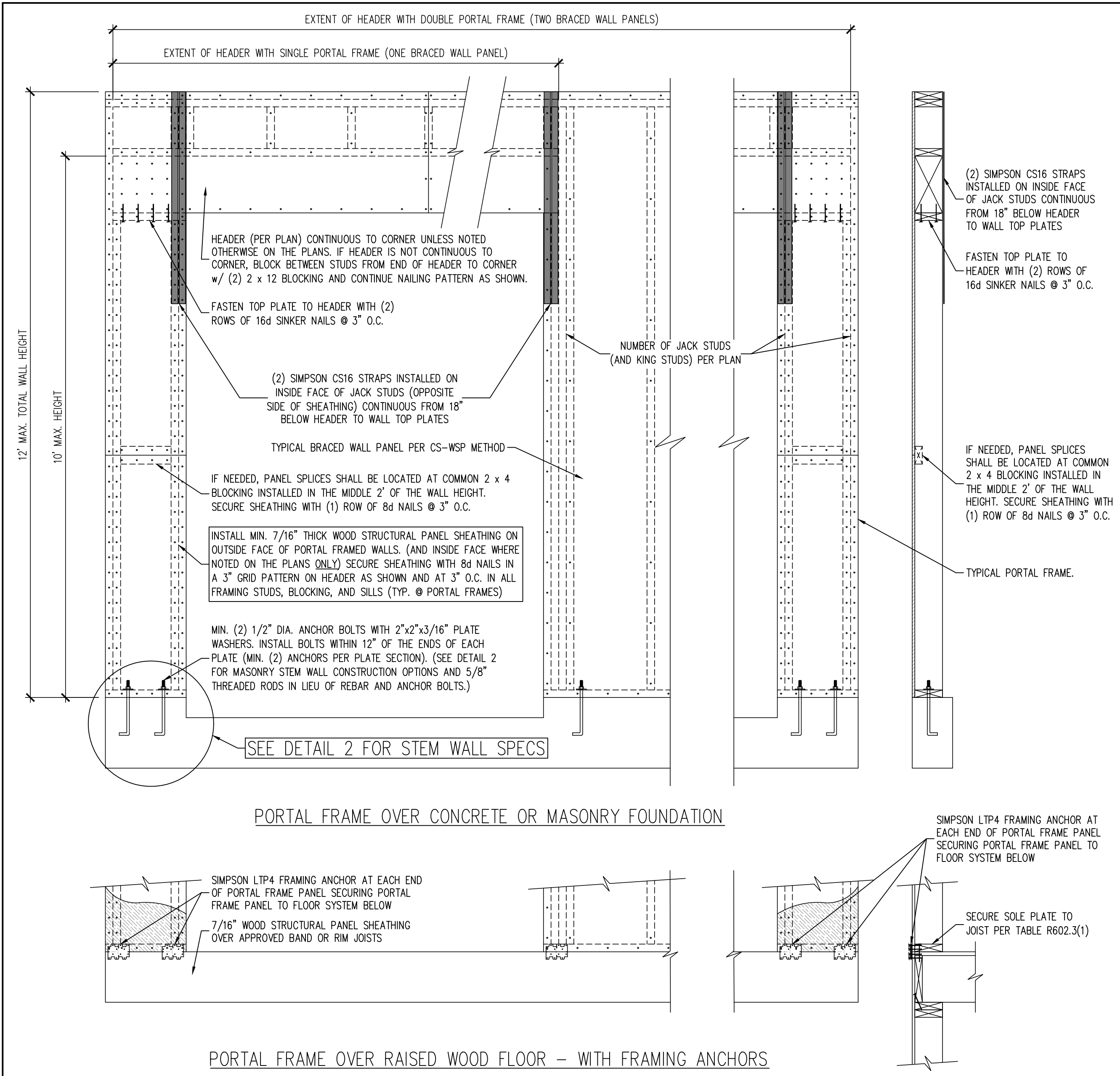
ENGINEERED BY: J. SMITH

SCALE: 1/4" = 1'-0" (UNO)

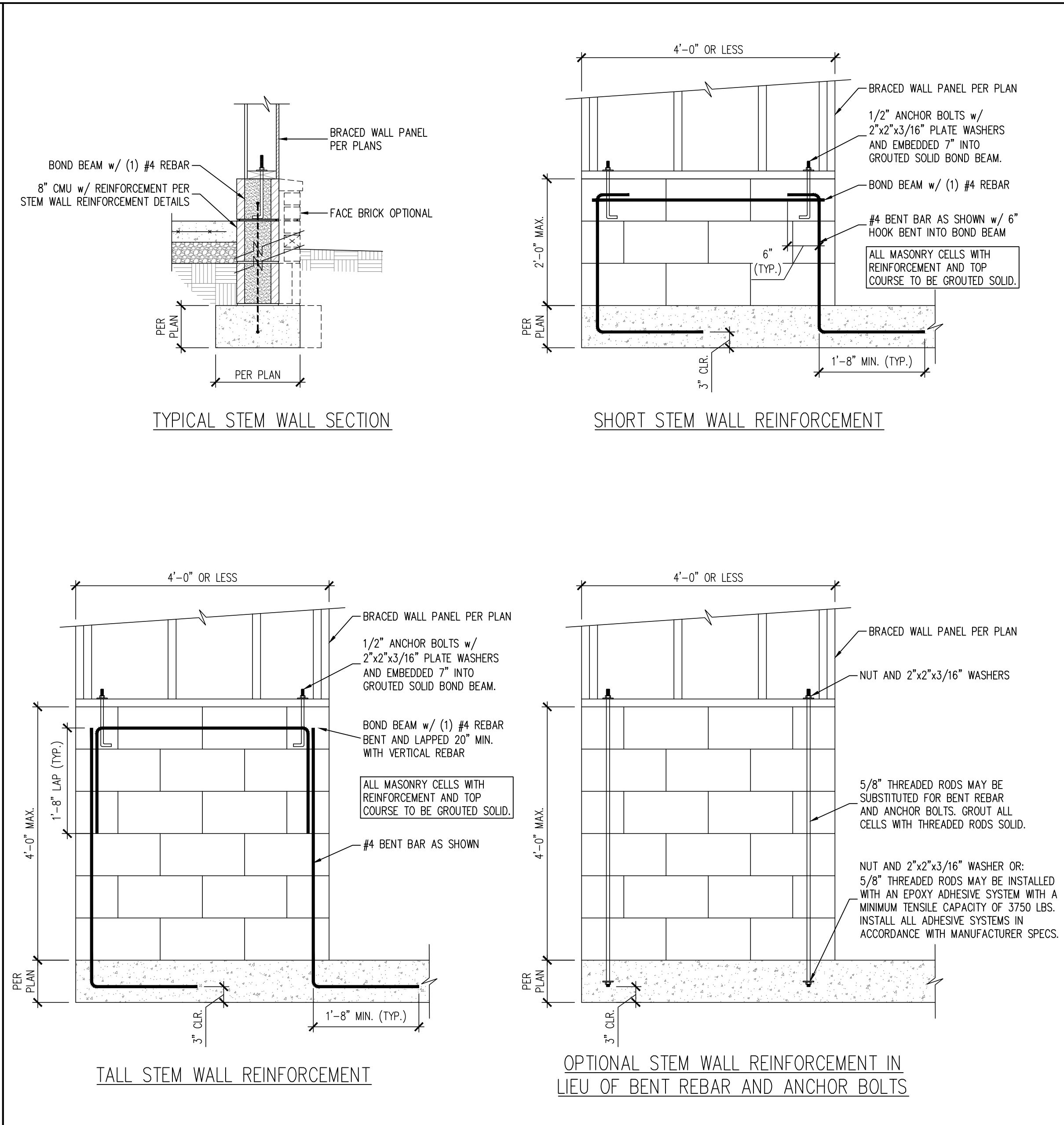
DATE: 2-28-2025

SHEET: 4 OF: 5

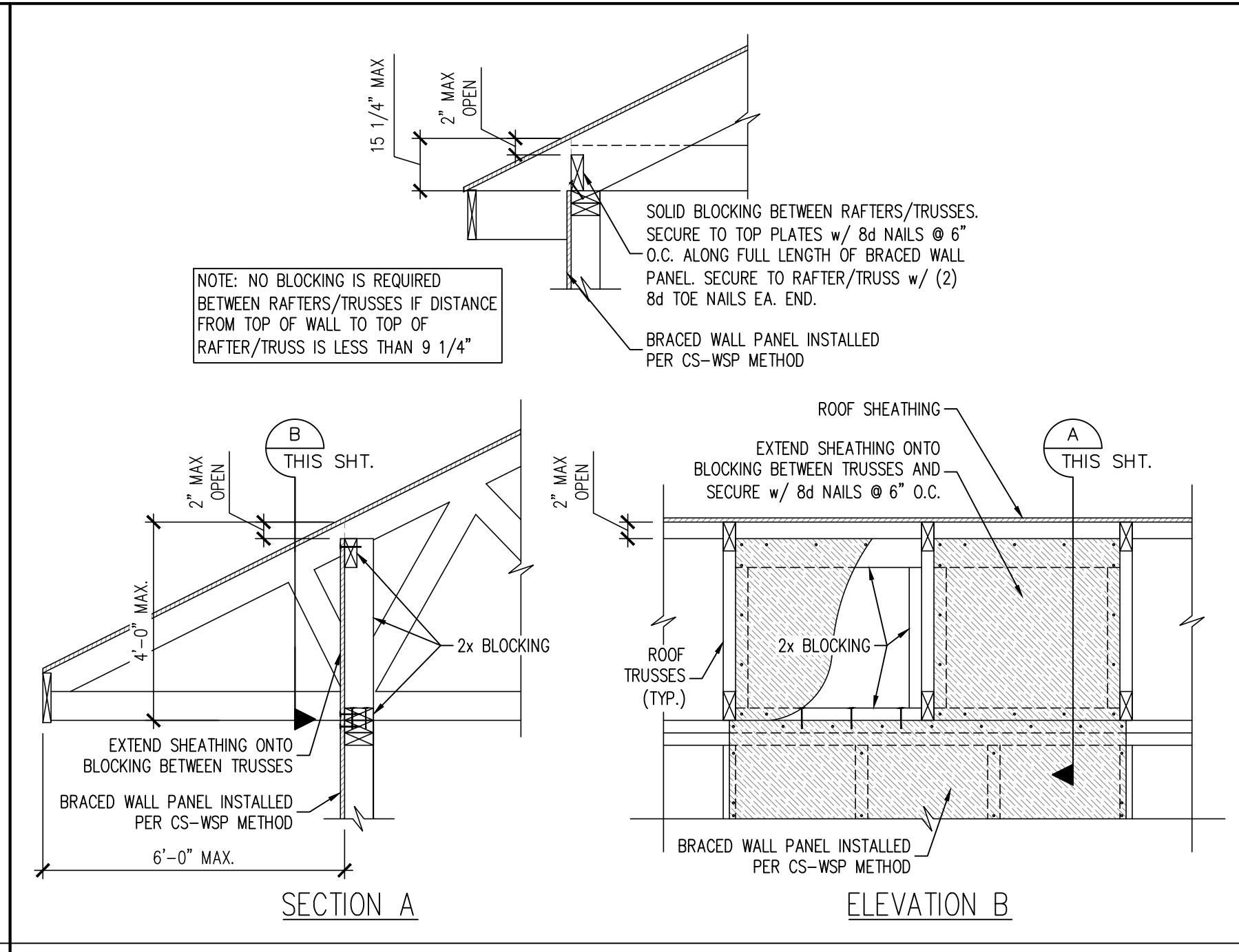
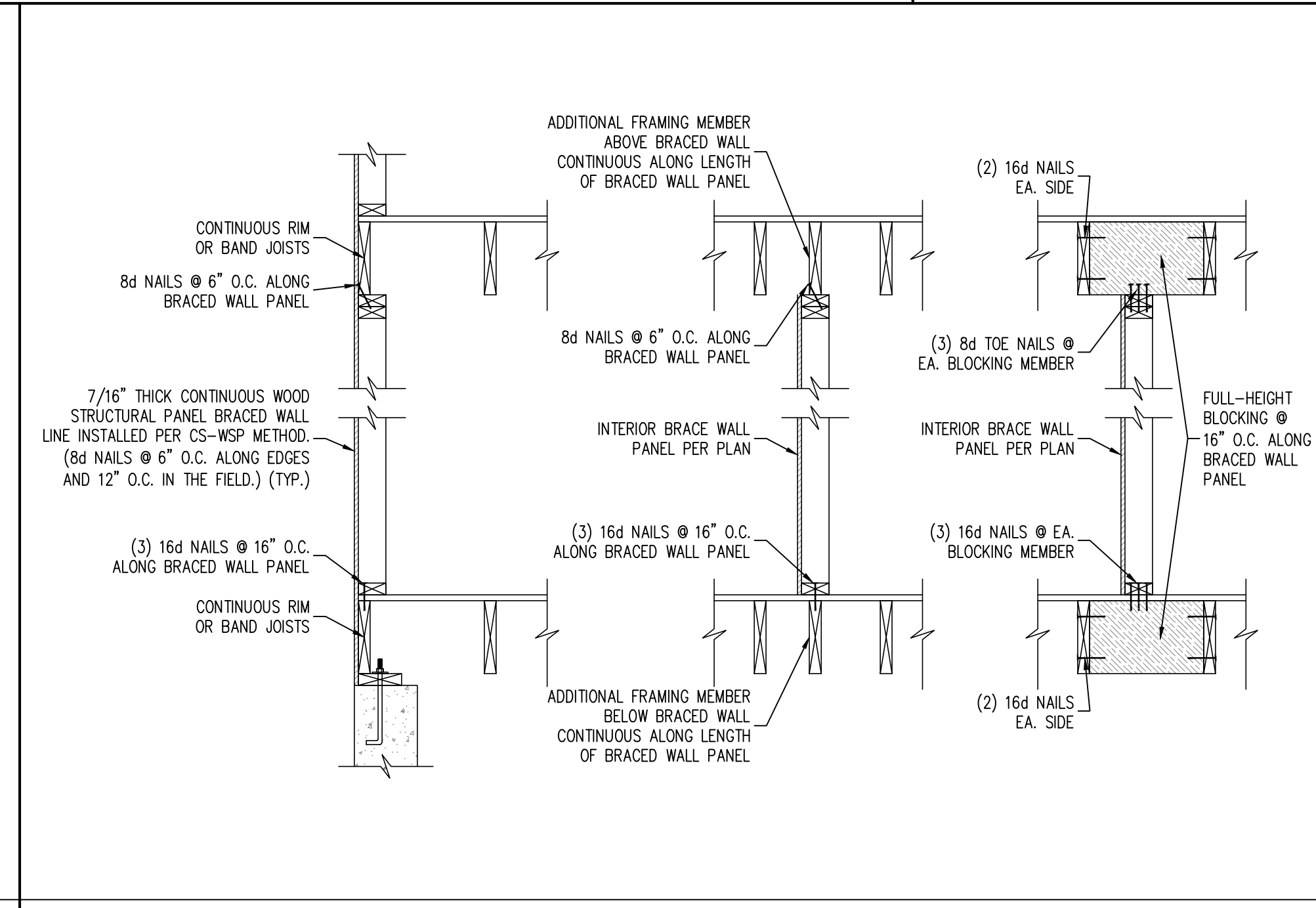
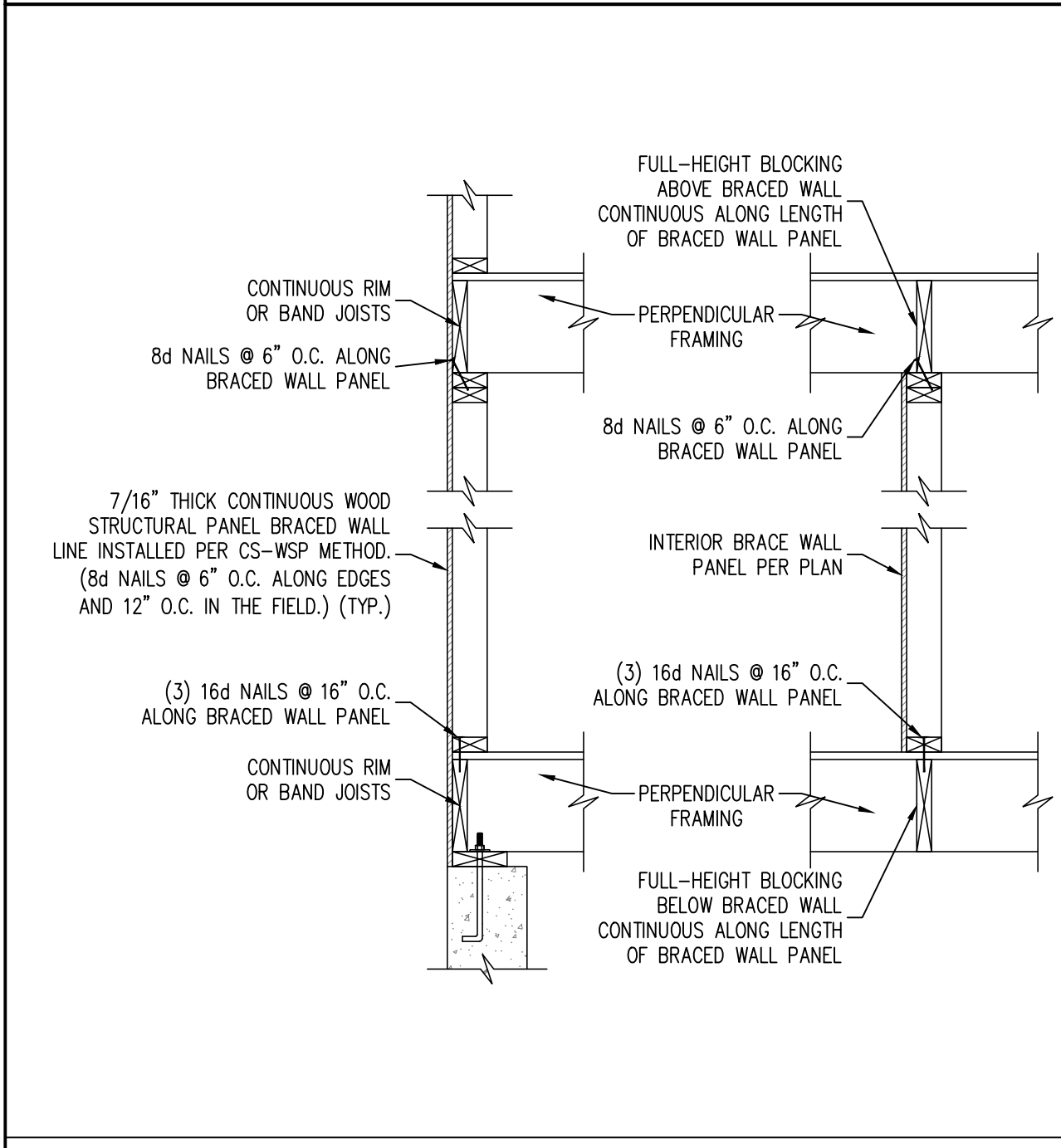
S-4
ROOF FRAMING
PLAN



1 PF PORTAL FRAME DETAIL
SCALE: 3/4" = 1'-0" (REFERENCE FIGURE R602.10.1)

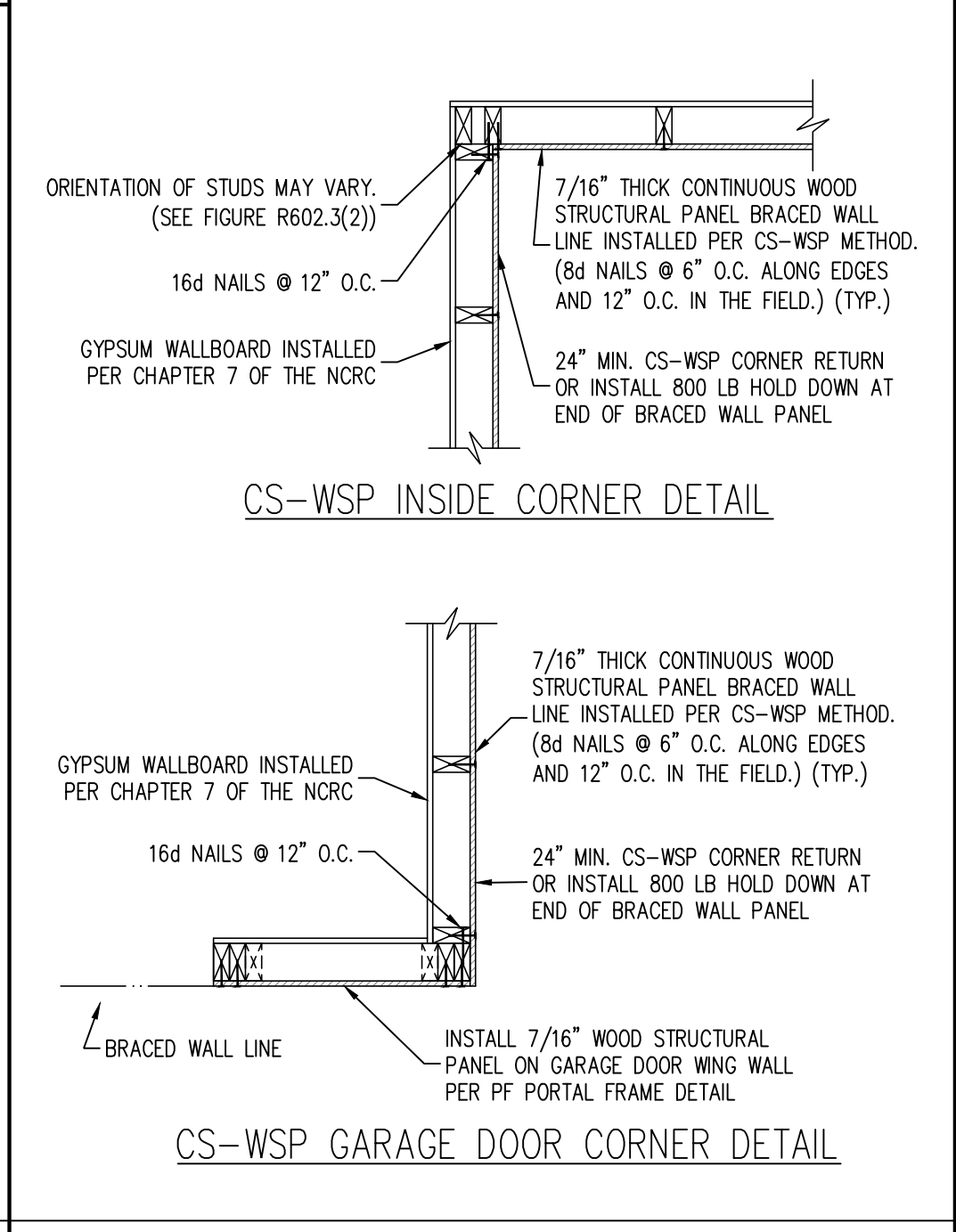
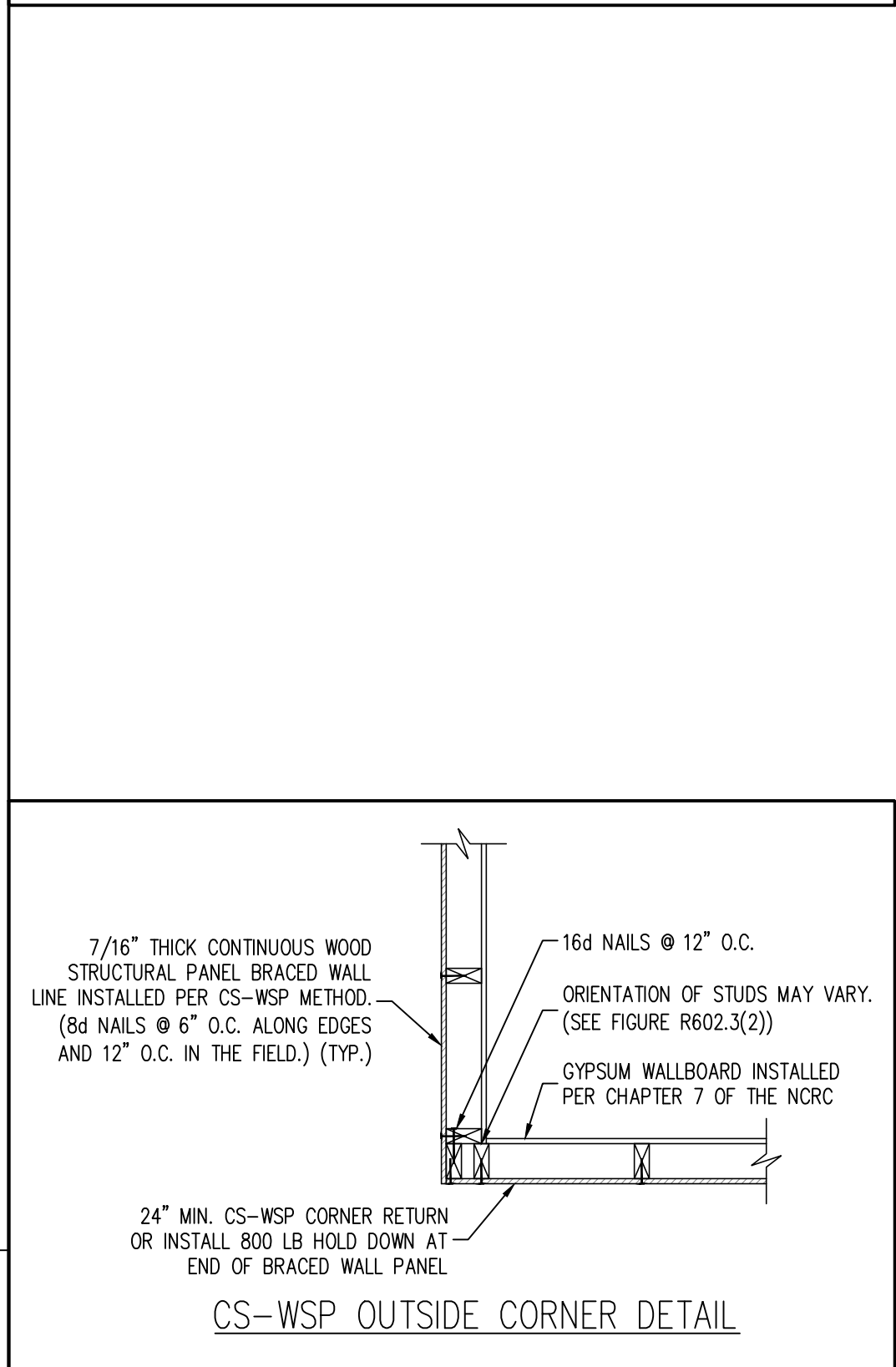


2 MASONRY STEM WALL DETAILS FOR WALLS 48" LONG OR LESS
SCALE: 3/4" = 1'-0" (REFERENCE FIGURE R602.10.4.3)



GENERAL WALL BRACING NOTES:

- WALL BRACING DESIGNED IN ACCORDANCE WITH CHAPTER 6 OF THE 2018 NORTH CAROLINA RESIDENTIAL BUILDING CODE (NCR). TABLES AND FIGURES REFERENCED ARE FROM THE 2018 NCR. REFER TO THE 2018 NCR FOR ADDITIONAL INFORMATION AS NEEDED.
- SEE STRUCTURAL SHEETS FOR THE BRACED WALL DESIGN SUMMARY WHICH SPECIFIES THE TOTAL AMOUNT OF BRACING REQUIRED AND PROVIDED ALONG EACH BRACED WALL LINE ON EACH FLOOR (WHERE REQUIRED). THE LENGTH AND LOCATION OF BRACED WALLS, HOLD DOWN(S) TYPE AND LOCATIONS, AND ANY SPECIAL NOTES OR REQUIREMENTS DETERMINED BY ENGINEERED DESIGN ARE INCLUDED ON EACH STRUCTURAL FLOOR PLAN (WHERE REQUIRED).
- ALL EXTERIOR WALLS ARE TO BE SHEATHED ON THE EXTERIOR FACE WITH 7/16" OSB WOOD STRUCTURAL PANELS IN ACCORDANCE WITH THE CS-WSP METHOD AS SPECIFIED IN SECTION R602.10.3 OF THE 2018 NCR UNLESS NOTED OTHERWISE (UNO).
- CS-WSP REFERS TO THE "CONTINUOUS SHEATHING - WOOD STRUCTURAL PANELS" WALL BRACING METHOD. 7/16" OSB SHEATHING SHALL BE INSTALLED ON ALL SHEATHABLE SURFACES OF ALL EXTERIOR WALLS ATTACHED w/ 6d COMMON NAILS OR 8d (2 1/2" LONG x 0.113" DIAMETER) NAILS SPACED 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN THE FIELD (UNO).
- THE INTERIOR SIDE OF ALL EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS SHALL BE SHEATHED WITH 1/2" GYPSUM WALL BOARD. WHEN NOT USING BRACING METHOD "GB", GYPSUM WALL BOARD SHALL BE FASTENED PER TABLE R702.3.5. BRACING METHOD "GB" WALL BOARD SHALL BE FASTENED PER TABLE R602.10.1.
- "GB" REFERS TO THE "GYPSUM BOARD" WALL BRACING METHOD. WHERE NOTED ON THE PLANS, 1/2" (MIN.) GYPSUM WALL BOARD SHALL BE INSTALLED ON BOTH SIDES OF THE BRACED WALL FASTENED WITH 1 1/4" #6 SCREWS OR 1 5/8" 5d COOLER NAILS SPACED 7" O.C. ALONG PANEL EDGES AND 7" O.C. ALONG INTERMEDIATE SUPPORTS (UNO). THE REQUIRED BRACED WALL LENGTHS FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3. METHOD CS-WSP CONTRIBUTES ITS ACTUAL LENGTH. METHOD GB CONTRIBUTES .5 ITS ACTUAL LENGTH, AND METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.



6 TYPICAL EXTERIOR CORNER FRAMING DETAILS
SCALE: 3/4" = 1'-0" (REFERENCE FIGURES R602.10.3(4) AND (5))

3 BRACED WALL PANEL CONNECTION WHEN PERPENDICULAR TO FLOOR/CEILING FRAMING
SCALE: NTS (REFERENCE FIGURE R602.10.4.4(1))

4 BRACED WALL PANEL CONNECTION WHEN PARALLEL TO FLOOR/CEILING FRAMING
SCALE: NTS (REFERENCE FIGURE R602.10.4.4(2))

5 BRACED WALL PANEL CONNECTION TO PERPENDICULAR RAFTERS OR TRUSSES
SCALE: NTS (REFERENCE FIGURES R602.10.4.5(1) AND (3))

PREPARED UNDER THE SUPERVISION OF:

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N.C. CERTIFICATE NUMBER: P-2212

THE LOREN 2025
305 GARY STREET
SMITH DESIGN BUILD, INC.

REVISIONS:

NO.	DESCRIPTION

DRAWN BY: SOUTHERN HOME DESIGNS

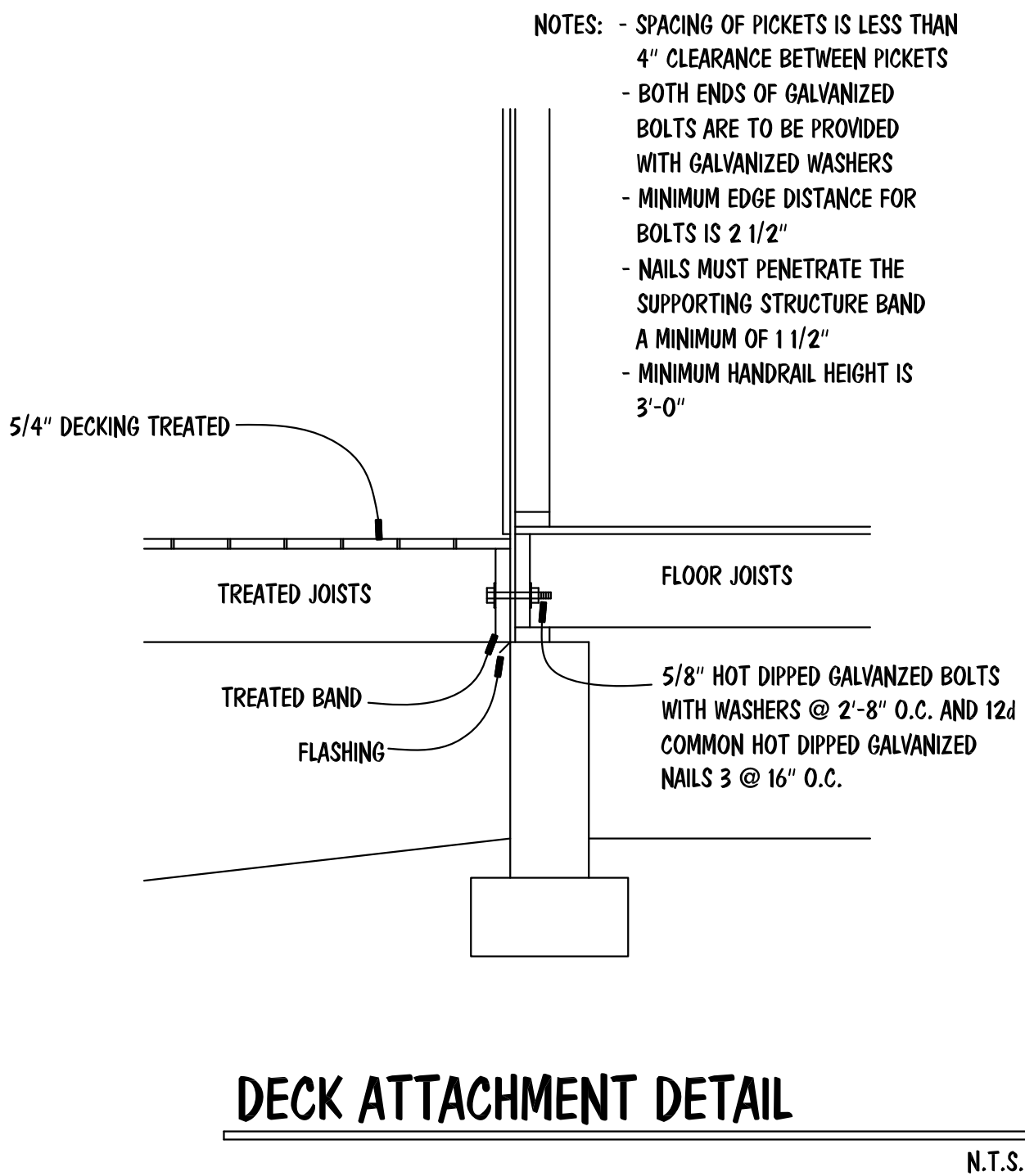
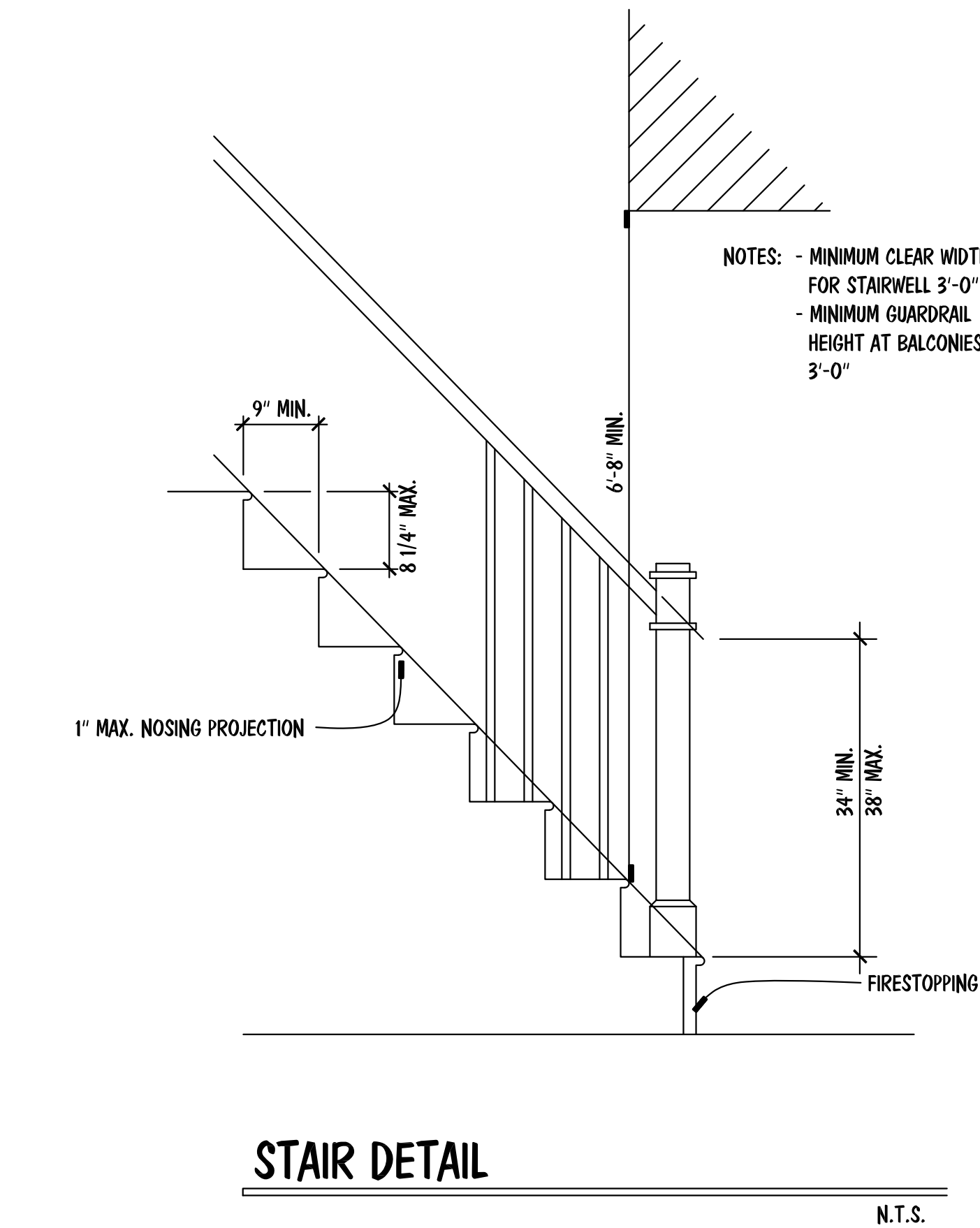
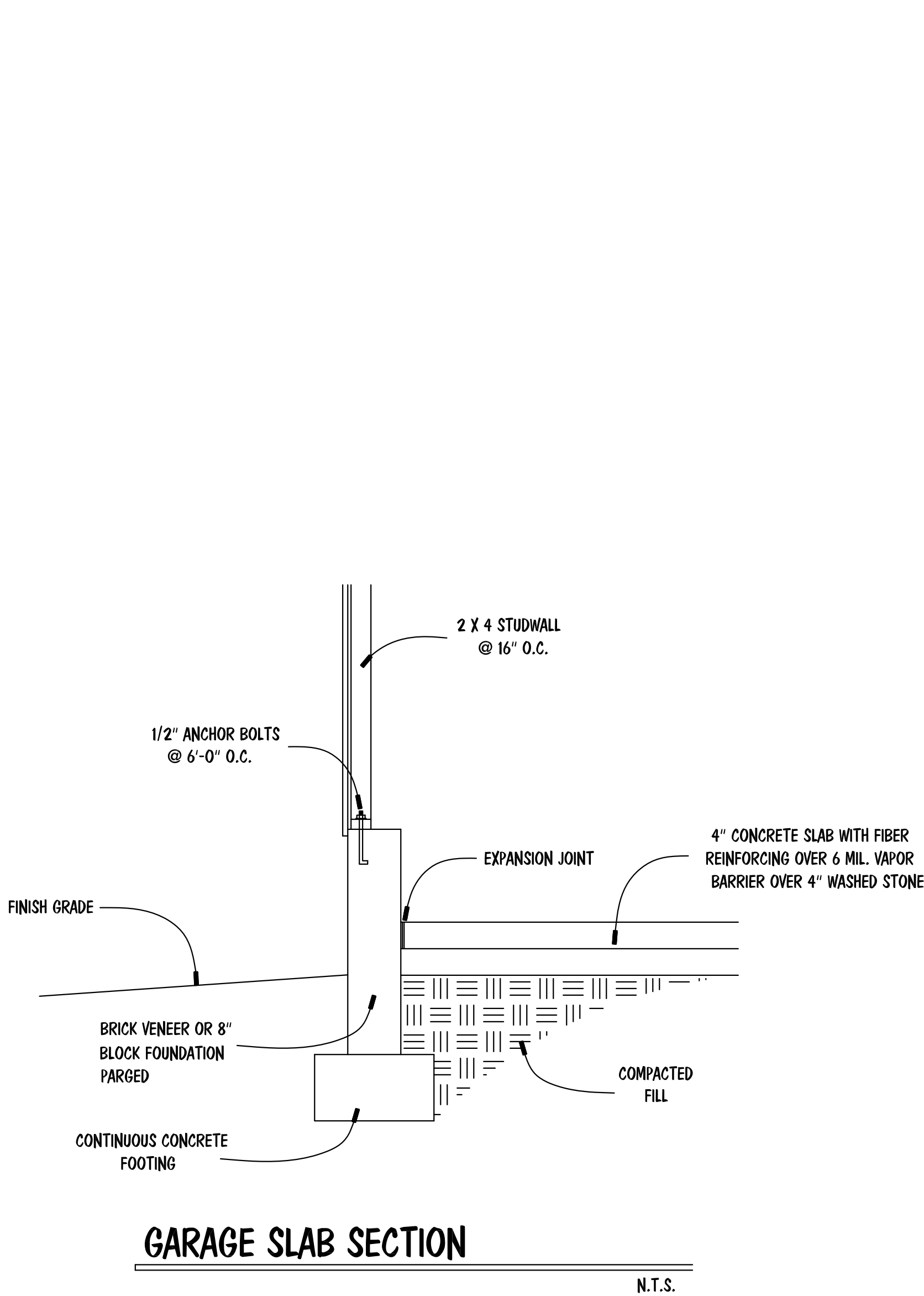
ENGINEERED BY: J. SMITH

SCALE: 1/4" = 1'-0" (UNO)

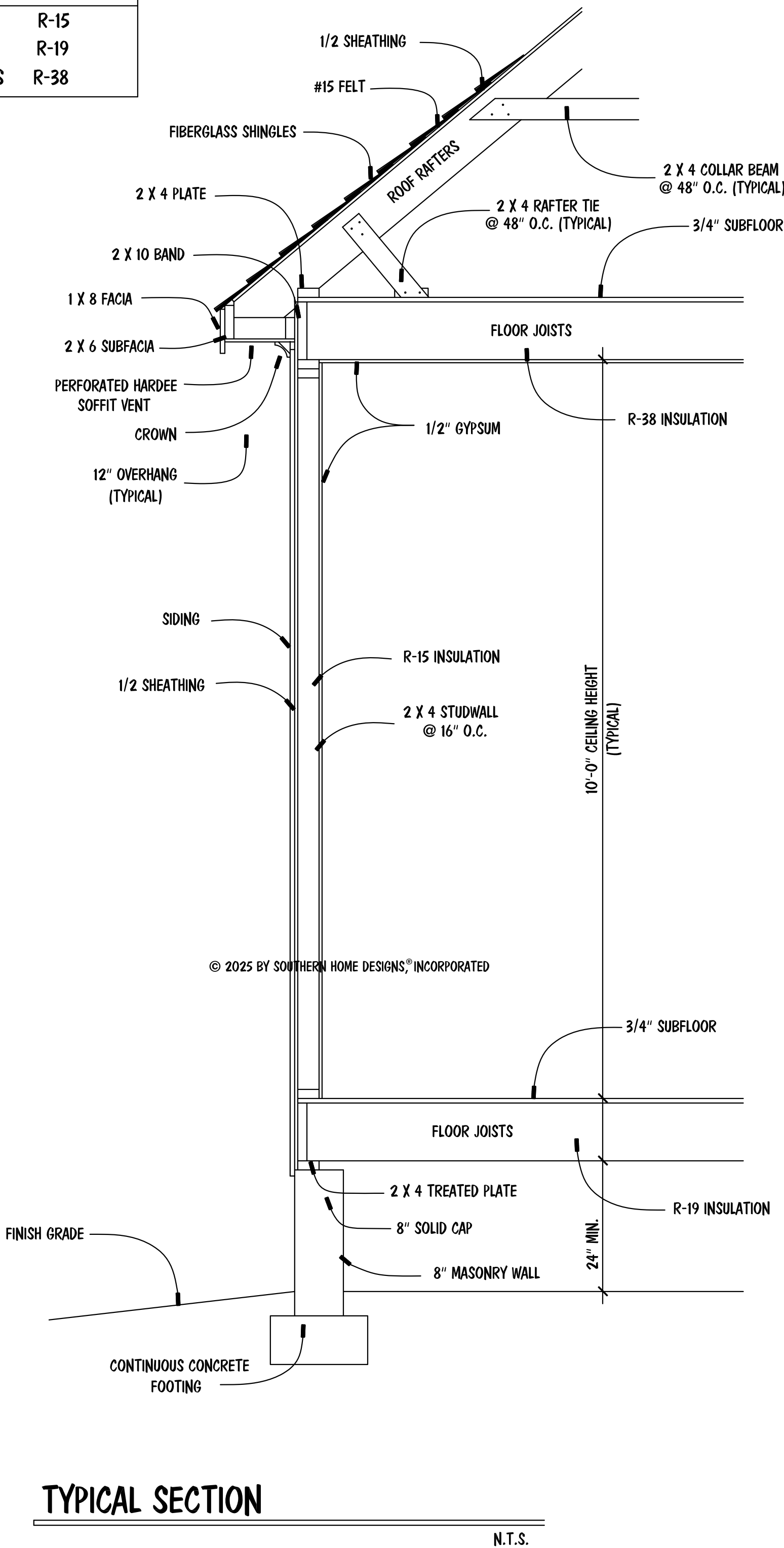
DATE: 2-28-2025

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S-5
WALL BRACING
DETAILS AND NOTES



INSULATION VALUES	
WALLS	R-15
FLOORS	R-19
CEILING	R-38



STR. DETAIL PLAN