

REVISIONS		
No.	Date	Remarks
1		
2		
3		
4		

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 Raleigh, NC 27603
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Client Name: **Doug & Nancy Fleming**
 345 Pointer Creek Dr.
 Angier, NC 27501

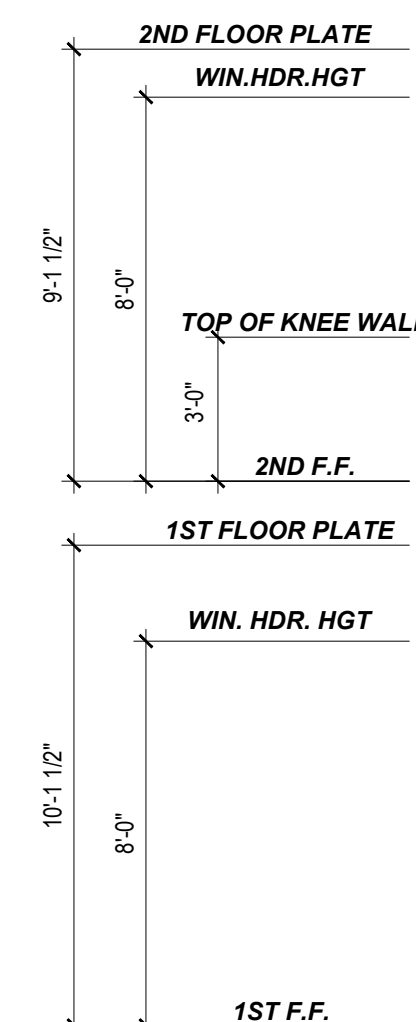
ELEVATIONS

Sheet Number
1
 of 3



FRONT ELEVATION

1/4" = 1'-0"



CRAWL SPACE VENTILATION CALCULATIONS

- VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON THE PLAN BUT SHOULD BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS TO PREVENT DEAD AIR POCKETS.

- 100% VAPOR BARRIER MUST BE PROVIDED WITH 12" MIN. LAP JOINTS.

- THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 AS LONG AS REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. (COMPLY WITH NC CODE MIN. WITH REGARD TO VENT PLACEMENT FROM CORNERS)

2303 SQ. FT. OF CRAWL SPACE/1500

1.53 SQ. FT. OF REQUIRED VENTILATION

PROVIDED BY: 4 VENTS AT 0.45 SQ. FT. NET FREE

VENTILATION EACH= 1.80 SQ. FT. OF VENTILATION

**FOUNDATION DRAINAGE- WATERPROOFING PER SECTIONS 405 & 406.

ATTIC VENTILATION CALCULATIONS

- CALCULATIONS SHOWN BELOW ARE BASED ON VENTILATORS USED AT LEAST 3 FT. ABOVE THE CORNICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED BY EAVE VENTS.

- CATHEDRAL CEILINGS SHALL HAVE A MIN. 1" CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

4220 SQ. FT. OF ATTIC/300= 14.07

EACH OF INLET AND OUTLET REQUIRED.

***WALL AND ROOF CLADDING DESIGN VALUES**

- WALL CLADDING IS DESIGNED FOR A 24.1 SQ. FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE.

- ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS:

455 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO 2.25/12

34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO 7/12

21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

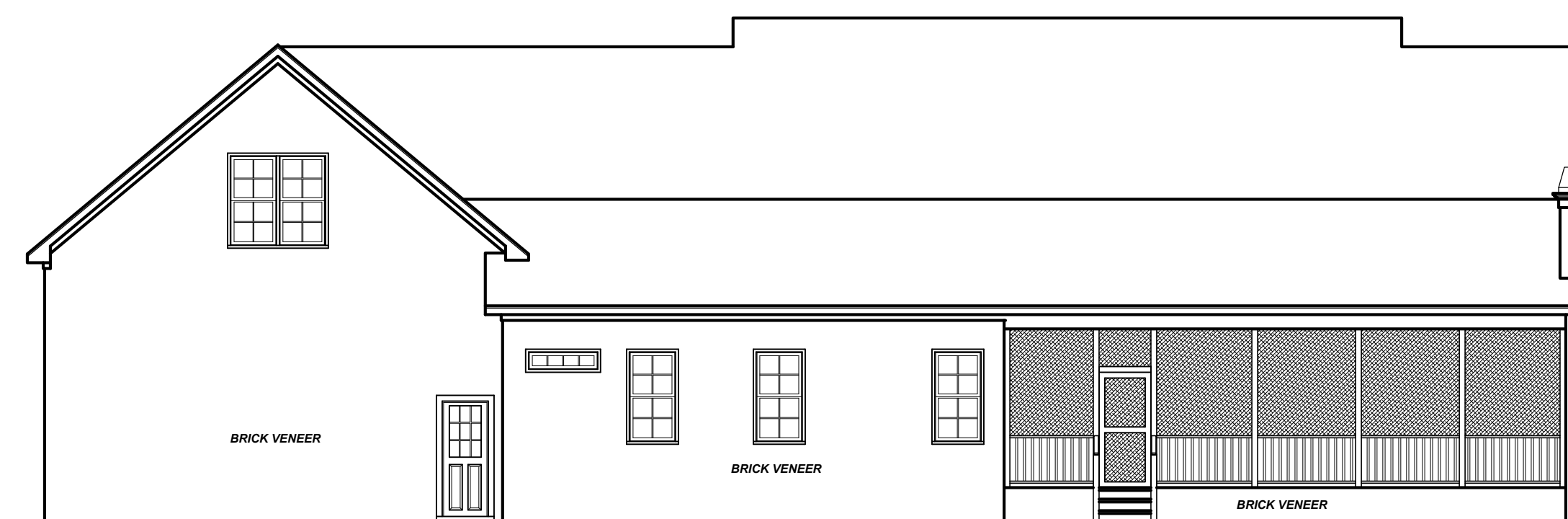
** MEAN ROOF HEIGHT 30' OR LESS

GENERAL NOTES:

- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL DIMENSIONS, ROOF PITCHES, AND SQUARE FOOTAGE IS CORRECT PRIOR TO CONSTRUCTION. K&A HOME DESIGNS, INC. IS NOT RESPONSIBLE FOR ANY DIMENSIONING, ROOF PITCH, OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT 4" UNLESS NOTED OTHERWISE.
- ALL ANGLED WALL SHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
- STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
- DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER IMPERFECTIONS.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA STATE BUILDING CODE, 2012 EDITION.

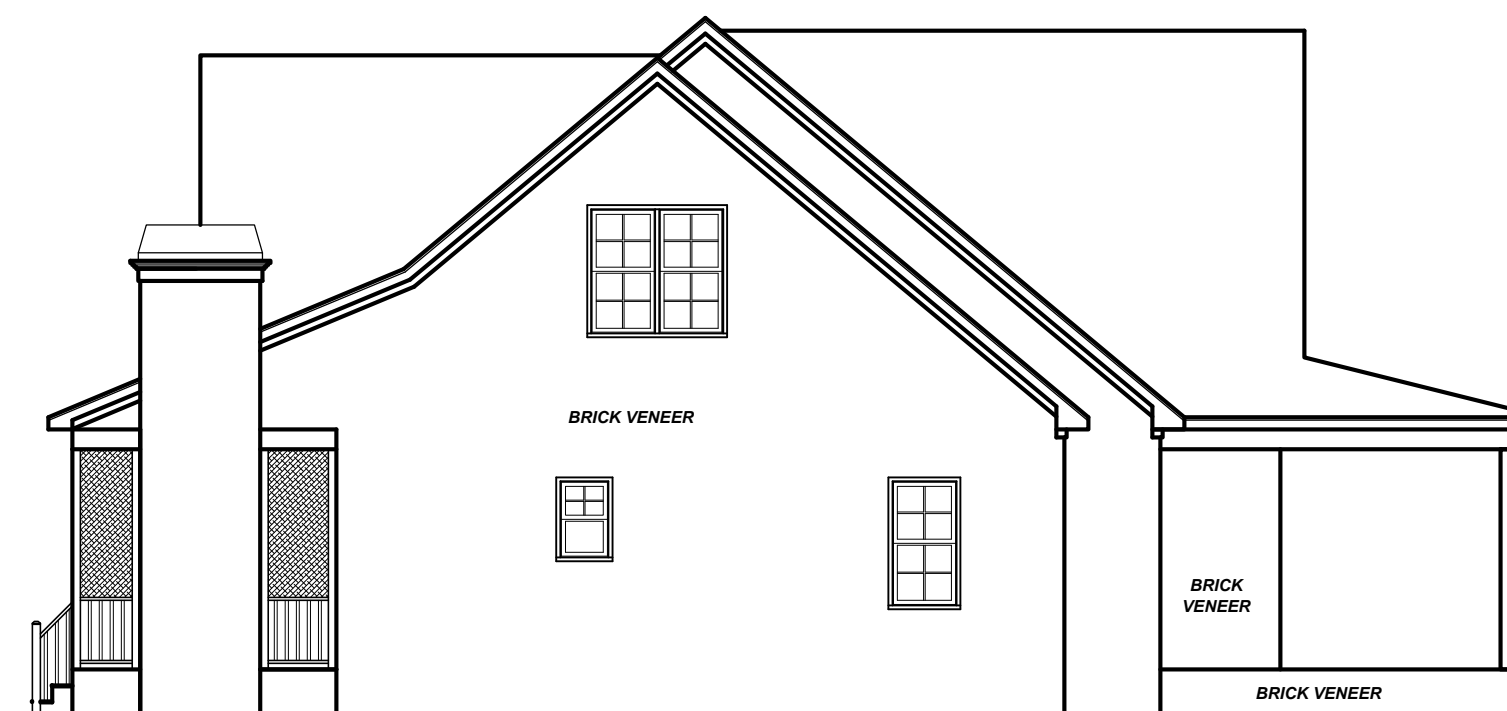
SQUARE FOOTAGE

HEATED SQUARE FOOTAGE		UNHEATED SQUARE FOOTAGE	
FIRST FLOOR=	2303	GARAGE=	1123
SECOND FLOOR=	1344	FRONT PORCH=	437
THIRD FLOOR=	N/A	SCREEN PORCH=	358
BASEMENT=	N/A	DECK=	N/A
		STORAGE=	215
TOTAL HEATED=	3647	TOTAL UNHEATED=	2133



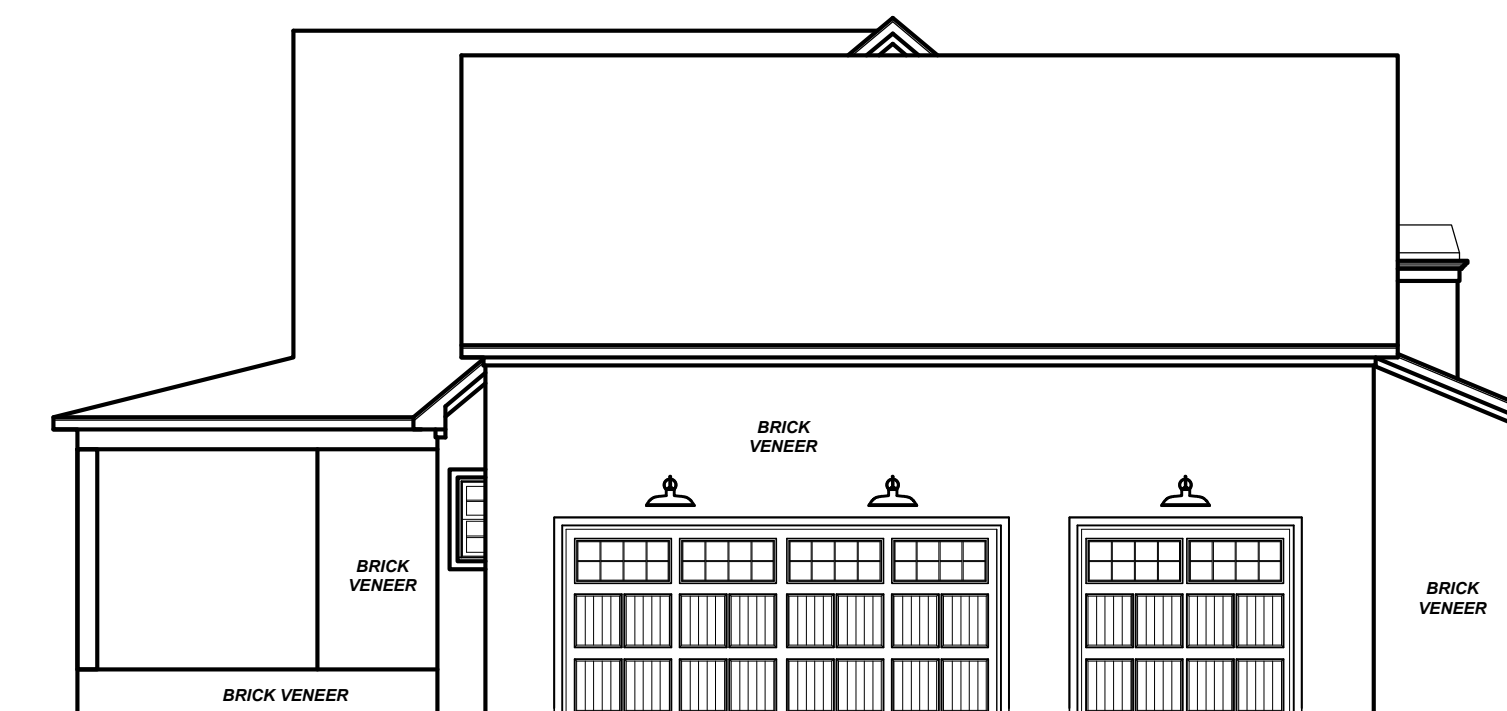
REAR ELEVATION

1/8" = 1'-0"



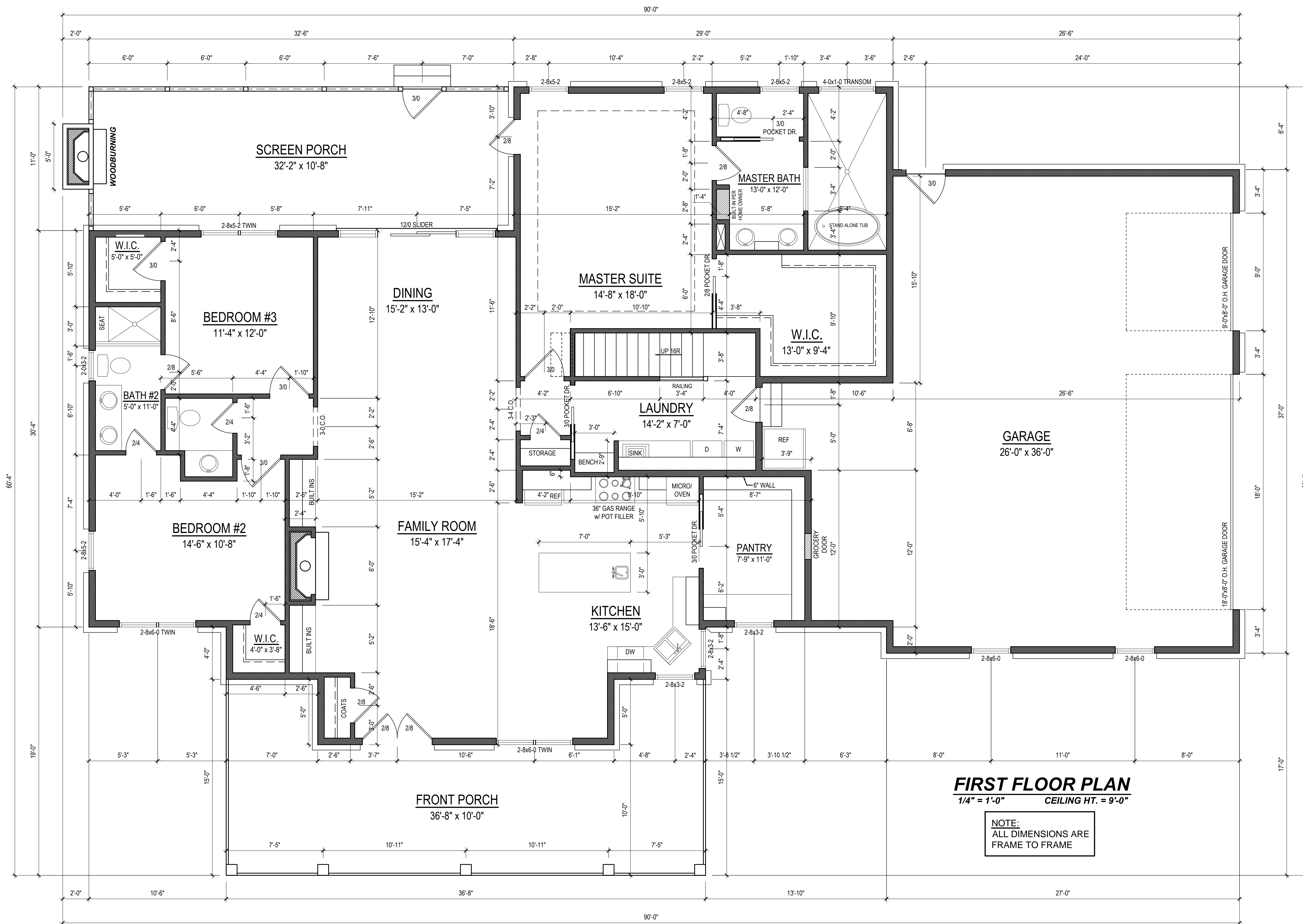
LEFT ELEVATION

1/8" = 1'-0"



RIGHT ELEVATION

1/8" = 1'-0"



FIRST FLOOR PLAN
 1/4" = 1'-0" CEILING HT. = 9'-0"

NOTE:
 ALL DIMENSIONS ARE
 FRAME TO FRAME

Project No.	23-286
Date	11-27-23
Drawn/Design By.	KBB
Scale	1/4" = 1'-0"

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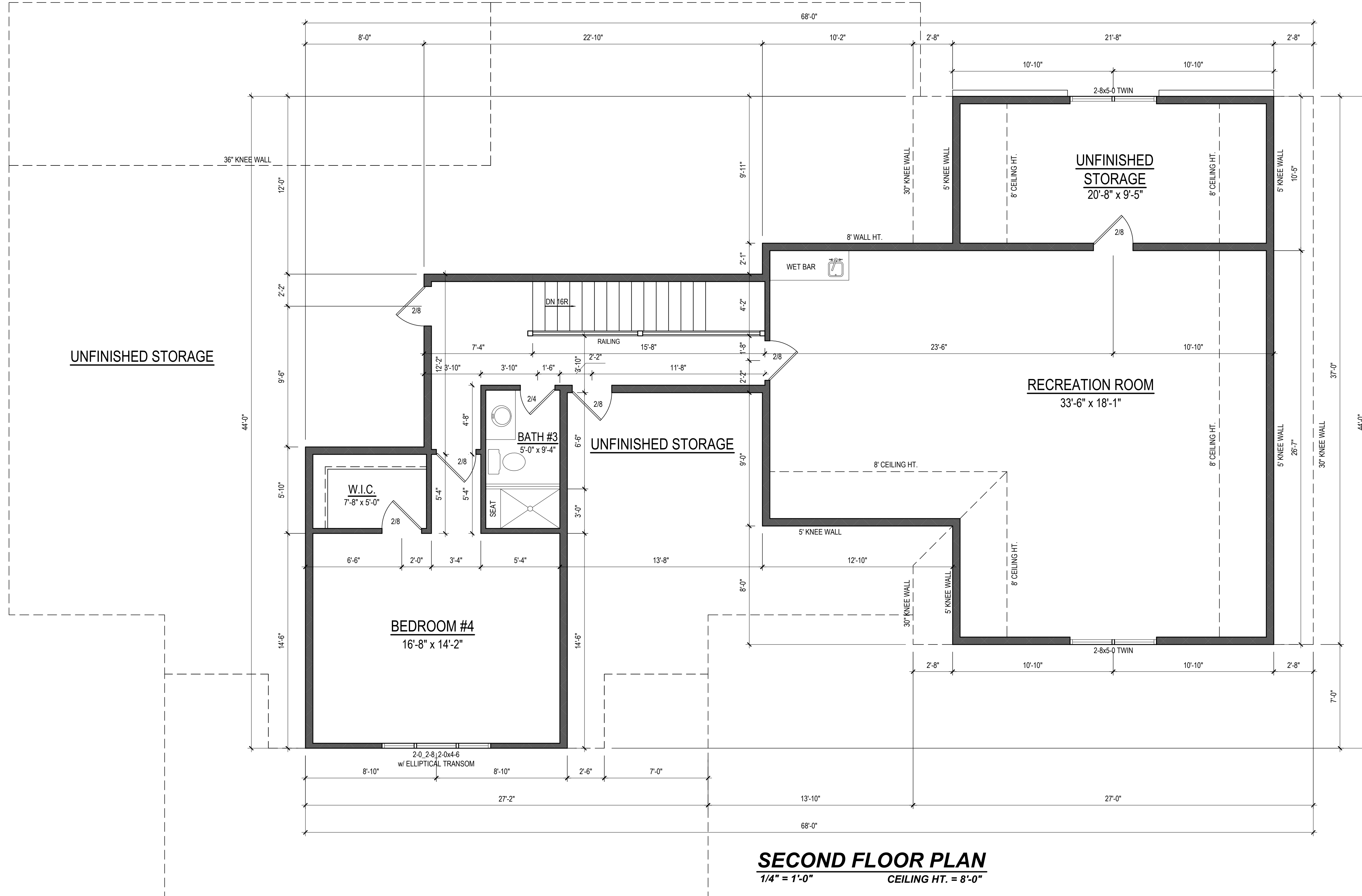
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FIRST FLOOR

Sheet Number
2
 of 3

Email: Kent@KandAHomeDesigns.com Website: www.KandAHomeDesigns.com



SECOND FLOOR PLAN
 1/4" = 1'-0" CEILING HT. = 8'-0"

Project No.	23-286
Date	11-27-23
Drawn/Design By.	KBB
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SECOND FLOOR

Sheet Number
3
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Email: Kent@KandAHomeDesigns.com Website: www.KandAHomeDesigns.com

1) GENERAL STRUCTURAL NOTES:

- 1.1) THE DESIGN PROFESSIONAL WHOSE SEAL APPEARS ON THESE DRAWINGS IS THE STRUCTURAL ENGINEER OF RECORD (SER) FOR THIS PROJECT. THE SER BEARS RESPONSIBILITY FOR THE STRUCTURAL COMPONENTS INCLUDING RAFTERS, HIPs, VALLEYS, RIDGES, CEILING AND FLOOR JOISTS, LOAD-BEARING WALLS, BEAMS AND HEADERS, COLUMNS AND POSTS, CANTILEVERS, PIERS, GRIDERS, AND FOOTINGS.
1.2) THE SER DOES NOT CERTIFY THE DIMENSIONAL ACCURACY OF THE ARCHITECTURAL DRAWINGS, INCLUDING THE ROOF. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO CONSTRUCTION AND NOTIFY THE SER OF ANY DISCREPANCIES AND/OR INCOMPLETE INFORMATION.
1.3) THE SER IS NOT RESPONSIBLE FOR I-JOIST AND/OR FLOOR AND ROOF TRUSS DESIGN AND LAYOUT. FLOOR AND ROOF TRUSSES ARE TO BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW FINAL TRUSS DRAWINGS PRIOR TO CONSTRUCTION AND NOTIFY THE SER OF ANY DISCREPANCIES.
1.4) THE SER IS NOT RESPONSIBLE FOR VERIFICATION OF ASSUMED FIELD CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ASSUMED FIELD CONDITIONS ARE MET OR EXCEEDED PRIOR TO CONSTRUCTION AND NOTIFY THE SER OF ANY DISCREPANCIES.
1.5) THE STRUCTURE IS ONLY STABLE IN ITS COMPLETED FORM. THE CONTRACTOR SHOULD PROVIDE ALL REQUIRED TEMPORARY BRACING DURING CONSTRUCTION TO STABILIZE THE STRUCTURE.
1.6) THE SER DOES NOT BEAR RESPONSIBILITY FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, NOR SAFETY PRECAUTIONS IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE. THE SER WILL NOT BE HELD RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
1.7) ANY ERRORS DUE TO FAILURE TO FOLLOW THE ABOVE PROCEEDURES SHALL NOT BE THE RESPONSIBILITY OF THE SER. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ANY REVISIONS ISSUED BY THE SER ARE PROMPTLY DISTRIBUTED TO THE SUBCONTRACTORS.
1.8) THE SER DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO THE STRUCTURAL DESIGN. IT IS THE RESPONSIBILITY OF THE ARCHITECTURAL DESIGNER AND/OR CONTRACTOR TO PROVIDE ANY REQUIRED CALCULATIONS OUTSIDE OF THE SCOPE OF THE STRUCTURAL DESIGN.

2) DESIGN SPECIFICATIONS:

- 2.1) BUILDING CODES:
- 2018 NORTH CAROLINA RESIDENTIAL CODE (NRC)
- ASCE/SEI 7-10 "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES"
2.2) DESIGN LIVE LOADS:
- ROOF: 20 PSF
- UNINHABITABLE ATTICS WITHOUT STORAGE: 10 PSF
- UNINHABITABLE ATTICS WITH LIMITED STORAGE: 20 PSF
- HABITABLE ATTICS AND ATTICS SERVED WITH FIXED STAIRS: 30 PSF
- SLEEPING AREAS: 30 PSF
- LIVING AREAS: 40 PSF
- DECKS AND BALCONIES: 40 PSF
- STAIRS: 40 PSF
- PASSENGER VEHICLE GARAGE: 50 PSF
2.3) DESIGN DEAD LOADS:
- ROOF TRUSSES: 20 PSF (10 PSF TC, 10 PSF BC)
- SOLID SAWN RAFTERS AND JOISTS: 10 PSF
- I-JOISTS: 12 PSF
- FLOOR TRUSSES: 15 PSF (10 PSF TC, 5 PSF BC)
- INTERIOR WALLS: 8 PSF
- EXTERIOR WALLS: 10 PSF
- BRICK, MASONRY, AND NATURAL STONE VENEER: 40 PSF
- CERAMIC TILE FLOORING: 10 PSF
- NATURAL STONE TILE FLOORING: 32 PSF
- NORMAL WEIGHT CONCRETE: 145 PCF
2.4) DESIGN SNOW LOADS:
- GROUND SNOW LOAD: 20 PSF
2.5) DESIGN LATERAL LOADS AND CRITERIA:
- ULTIMATE WIND SPEED: 120 MPH
- WIND EXPOSURE: B
- DESIGN WIND PRESSURE: 20 PSF
- SEISMIC DESIGN CATEGORY: B
2.6) DESIGN SOIL LOADS:
- SOIL BEARING CAPACITY: 2000 PSF (MINIMUM, ASSUMED)
- LATERAL SOIL PRESSURE: 45 PCF (MAXIMUM, ASSUMED)
2.7) DESIGN DEFLECTION LIMITS:
LIVE LOAD TOTAL LOAD
- ROOF TRUSSES: L/360 L/240
- SOLID SAWN RAFTERS: L/240 L/180
- SOLID SAWN CEILING JOISTS: L/240 L/180
- I-JOISTS AND FLOOR TRUSSES: L/480 L/240
- SOLID SAWN FLOOR JOISTS: L/360 L/240
- BEAMS AND HEADERS: L/360 L/240
- FRAMING SUPPORTING CERAMIC TILE: L/360
- FRAMING SUPPORTING NATURAL STONE TILE: L/720 (3/8" MAX)
- LINTELS AND FRAMING SUPPORTING BRICK OR MASONRY: L/600 (3/8" MAX)

3) FOOTING AND FOUNDATION NOTES:

- 3.1) FOUNDATIONS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CHAPTER 4 OF THE 2018 NRC.
3.2) THE BOTTOM OF ALL FOOTINGS SHALL EXCEED A MINIMUM OF 12" BELOW GRADE OR BELOW THE FROST LINE FOR THE CONSTRUCTION LOCATION, WHICHEVER IS GREATER.
3.3) ANY COMPACTED FILL SHALL BE PLACED UNDER THE DIRECTION OF A QUALIFIED GEOTECHNICAL ENGINEER. THE RESULTING SOIL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY.
3.4) FOOTINGS SHALL BE FREE OF VEGETATION, TOPSOIL, AND FOREIGN MATERIAL. NO CONCRETE SHALL BE PLACED AGAINST ANY SUBGRADE CONTAINING WATER, ICE, FROST, OR LOOSE MATERIAL.

- 3.5) FOOTINGS SUPPORTING FOUNDATION WALLS SHALL HAVE A MINIMUM PROJECTION OF 2" AT ALL SIDES.
3.6) MAXIMUM FOOTING PROJECTION AT FOUNDATION WALLS SHALL NOT EXCEED THE THICKNESS OF THE FOOTING.
3.7) FOUNDATION WALLS MAY BE STEPPED AND FRAMED WITH CRIPPLE WALLS WHERE GRADE PERMITS (SEE NOTE 7.14 FOR WALL FRAMING REQUIREMENTS).
3.8) PROVIDE FOUNDATION WATERPROOFING AND DRAIN WITH POSITIVE SLOPE TO DAYLIGHT AS REQUIRED BY SITE CONDITIONS.
3.9) THE SITE SHALL BE GRADED TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS. THE GRADE SHALL FALL A MINIMUM OF 6" WITHIN THE FIRST TEN FEET.
3.10) CRAWL SPACES SHALL BE GRADED LEVEL AND CLEAR OF ALL DEBRIS. CRAWL SPACE GRADE SHALL BE LINED WITH MINIMUM 6 MIL APPROVED VAPOR BARRIER WITH ALL JOINTS LAPPED MINIMUM 12" AND SEALED. PROVIDE A MINIMUM ACCESS OPENING MEASURING 18" BY 24".

4) CONCRETE NOTES:

- 4.1) INTERIOR SLABS ON GRADE, EXCEPT FOR GARAGE FLOORS, AND FOOTINGS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.
4.2) 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".
4.3) ALL CONCRETE EXPOSED TO FREEZE/THAW CYCLES SHALL BE AIR ENTRAINED WITH TOTAL AIR VOLUME NOT LESS THAN 5% OR MORE THAN 7%.
4.4) CONCRETE SLABS ON GRADE SHALL BE MINIMUM 4" THICK AND REINFORCED WITH POLYPROPYLENE FIBERS OR 6x6 WELDED WIRE FABRIC (WWF).
4.5) CONCRETE SLABS ON GRADE SHALL BE PLACED ON MINIMUM 4" THICK GRANULAR FILL COMPACTED TO MINIMUM 95% OF THE MAXIMUM DRY DENSITY.
4.6) 3/4" TO 1" DEEP CONTROL JOINTS (SAW-CUT OR TOOLED) ARE TO BE PLACED IN SLABS ON GRADE WITHIN 4 TO 12 HOURS OF CONCRETE FINISHING.
4.7) ALL CAST-IN-PLACE CONCRETE WALLS SHALL CONFORM TO SECTIONS R404 AND/OR R608 OF THE 2018 NRC.

5) MASONRY NOTES:

- 5.1) CONCRETE MASONRY SHALL CONFORM TO ASTM C90. ALL BRICK SHALL CONFORM TO ASTM C62.
5.2) ALL MORTAR SHALL BE TYPE "S".
5.3) ALL MASONRY WALLS SHALL CONFORM TO SECTION SECTIONS R404 AND/OR R606 OF THE 2018 NRC.
5.4) THE UNSUPPORTED HEIGHT OF UNGROUTED HOLLOW MASONRY PIERS SHALL NOT EXCEED FOUR TIMES THEIR LEAST DIMENSION.
5.5) EACH CRAWL SPACE PIER SHALL BEAR WITHIN THE MIDDLE THIRD OF ITS RESPECTIVE FOOTING.
5.6) THE TOP COURSE OF MASONRY SHALL BE GROUTED SOLID.
5.7) HORIZONTAL WALL JOINT REINFORCEMENT SHALL BE STANDARD 9 GAUGE GALVANIZED LADDER OR TRUSS TYPE SPACED AT 16" O.C.

6) REINFORCING STEEL NOTES:

- 6.1) WELDED WIRE FABRIC SHALL CONFORM TO ASTM 185.
6.2) LAP REINFORCING STEEL, AS REQUIRED, A MINIMUM OF 48 TIMES THE BAR DIAMETER (18" FOR #3 BARS, 24" FOR #4 BARS, 30" FOR #5 BARS, 36" FOR #6 BARS, ETC.).

7) WOOD FRAMING NOTES:

- 7.1) SOLID SAWN FRAMING MEMBERS SHALL BE SPRUCE-PINE-FIR (SPF) #2 OR SOUTHERN YELLOW (SYP) #2 WITH THE FOLLOWING MINIMUM DESIGN VALUES:
7.2) ENGINEERED LUMBER BEAMS SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:
7.3) ENGINEERED LUMBER COLUMNS SHALL HAVE THE FOLLOWING MINIMUM DESIGN VALUES:
7.4) WOOD IN CONTACT WITH THE GROUND, CONCRETE, OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPA STANDARD C-15.
7.5) NAILS SHALL BE COMMON WIRE NAILS UNLESS NOTED OTHERWISE AND SHALL CONFORM TO ASTM F1667-05.

- 7.6) BOLTS SHALL CONFORM TO ASTM A307 UNLESS NOTED OTHERWISE.
7.7) LAG SCREWS SHALL CONFORM TO ANS/ASME B18.2.1.
7.8) INDIVIDUAL STUDS BUILT UP TO FORM A COLUMN SHALL BE FASTENED WITH (2) ROWS OF 10d NAILS @ 6" O.C.
7.9) MULTI-PLY SOLID SAWN BEAMS AND HEADERS SHALL BE FASTENED WITH (2) ROWS OF 10d NAILS @ 16" O.C.
7.10) MULTI-PLY ENGINEERED LUMBER BEAMS AND HEADERS SHALL BE FASTENED PER THE MANUFACTURER SPECIFICATIONS UNLESS NOTED OTHERWISE.
7.11) BEAMS PERPENDICULAR TO THE SUPPORTING WALL SHALL BEAR THE FULL WIDTH OF THE WALL UNLESS NOTED OTHERWISE.
7.12) BEAMS PARALLEL TO THE SUPPORTING WALL SHALL BEAR THE WIDTH OF THE SPECIFIED STUD COLUMN ON THE END OF THE WALL.
7.13) HEADERS SHALL BE SUPPORTED BY JACK STUDS AND KING STUDS BASED ON THE FOLLOWING CONDITIONS UNLESS NOTED OTHERWISE:
CLEAR SPAN: # OF JACK STUDS: # OF KING STUDS (EXTERIOR): # OF KING STUDS (INTERIOR):
UP TO 3'-0" (1) (1) (1)
>3'-0" TO 6'-0" (2) (2) (1)
>6'-0" TO 9'-0" (2) (3) (2)
>9'-0" TO 12'-0" (3) (4) (2)
>12'-0" TO 15'-0" (3) (5) (3)
>15'-0" TO 18'-0" (4) (6) (3)

- 7.14) STUD SPACING FOR EXTERIOR AND INTERIOR BEARING WALLS SHALL BE BASED ON THE FOLLOWING CONDITIONS UNLESS NOTED OTHERWISE:
- SUPPORTING UP TO ONE STORY ABOVE:
UP TO 10'-1 1/2" IN HEIGHT: 2x4 @ 16" O.C. OR 2x6 @ 24" O.C.
>10'-1 1/2" UP TO 12'-1 1/2": 2x4 @ 12" O.C. OR 2x6 @ 16" O.C.
- SUPPORTING UP TO TWO STORIES ABOVE:
UP TO 10'-1 1/2" IN HEIGHT: 2x4 @ 12" O.C. OR 2x6 @ 16" O.C.
>10'-1 1/2" UP TO 12'-1 1/2": 2x6 @ 12" O.C.
7.15) ALL EXTERIOR WALLS TO BE FULLY SHEATHED WITH 5/8" APA RATED OSB EXPOSURE 1 ATTACHED WITH 8d NAILS @ 6" O.C.
7.16) ROOF SHEATHING SHALL BE MINIMUM 5/8" APA RATED SHEATHING EXPOSURE 1 ATTACHED TO ROOF FRAMING WITH 8d NAILS @ 6" O.C.
7.17) FLOOR SHEATHING SHALL BE MINIMUM 5/8" APA RATED TONGUE AND GROOVE SHEATHING EXPOSURE 1 ATTACHED TO FLOOR FRAMING WITH 8d NAILS @ 6" O.C.
7.18) EXTERIOR WOOD DECKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH APPENDIX M OF THE 2018 NRC UNLESS NOTED OTHERWISE.
7.19) EXTERIOR WOOD POSTS SHALL BE SECURED TO THE BAND AT THE BOTTOM AND BEAM AT THE TOP WITH (1) SIMPSON STRONG-TIE H6 HURRICANE TIE, (2) H2.5A HURRICANE TIES, OR (1) SECTION OF CS16 COIL STRAPPING WITH MINIMUM 9" END LENGTHS.

8) STEEL FRAMING NOTES:

- 8.1) STEEL FRAMING SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
- W SHAPES: ASTM A992
- CHANNELS AND ANGLES: ASTM A36
- PLATES AND BARS: ASTM A36
- HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A500, GRADE B
- PIPES: ASTM A53, GRADE B, TYPE E OR S
8.2) STEEL BEAMS SHALL BE ANCHORED AT THE BOTTOM FLANGE TO EACH SUPPORT AS FOLLOWS UNLESS NOTED OTHERWISE:
- WOOD FRAMING: (2) 1/2" DIAMETER x 4" LONG LAG SCREWS
- CONCRETE: (2) 1/2" DIAMETER x 4" LONG SST TITEN HD (OR EQUAL) SCREW ANCHORS
- MASONRY (GROUTED SOLID): (2) 1/2" DIAMETER x 4" LONG SST TITEN HD (OR EQUAL) SCREW ANCHORS
- STEEL COLUMN: (2) 1/2" DIAMETER BOLTS OR 3/8" CONTINUOUS FILLET WELD
8.3) ATTACH A 2x NAILER TO THE TOP FLANGE OF STEEL BEAMS w/ (2) ROWS OF 1/2" DIAMETER CARRIAGE BOLTS @ 48" O.C.
8.4) FLITCH BEAMS SHALL BE BOLTED WITH (2) ROWS OF 1/2" DIAMETER BOLTS @ 16" O.C. STAGGERED.

9) SUPPORT OF MASONRY OR NATURAL STONE VENEER:

- 9.1) VENEER ABOVE OPENINGS SHALL BE SUPPORTED BY STEEL ANGLES AS FOLLOWS UNLESS NOTED OTHERWISE:
CLEAR SPAN: SIZE OF STEEL ANGLE:
UP TO 3'-0" 3x3x1/4
>3'-0" UP TO 6'-0" 5x3 3/8x3/8 (LONG LEG VERTICAL)
>6'-0" UP TO 8'-0" 6x4x3/8 (LONG LEG VERTICAL)
9.2) VENEER ABOVE OPENINGS WITH A CLEAR SPAN EXCEEDING 8'-0" SHALL BE SUPPORTED BY A 6x4x3/8 STEEL ANGLE FASTENED TO THE HEADER WITH (2) ROWS OF 1/2" DIAMETER LAG SCREWS @ 16" O.C.
9.3) STEEL ANGLES SHALL BE EMBEDDED MINIMUM 4" INTO THE VENEER AT EACH SIDE OF THE OPENING.
9.4) VENEER ABOVE ROOF LINES SHALL BE SUPPORTED BY A 6x4x3/8 STEEL ANGLE FASTENED TO (2) 2x10 BLOCKING w/ (2) ROWS OF 1/2" DIAMETER LAG SCREWS @ 16" O.C.

COMMON ABBREVIATIONS

Table with 2 columns: Abbreviation and Full Name. Includes terms like AFF (Above Finished Floor), ALT (Alternate), ARCH (Architectural), BEARING, BOTTOM, CAST-IN-PLACE, CLEAR, CONCRETE MASONRY UNIT, CONCRETE, CONNECTION, CONTINUOUS, DOUBLE, DIAMETER, DOUBLE JOIST, DOUBLE STUD POCKET, EACH, EQUAL, FLOOR, FOUNDATION, FOOTING, GAUGE, HOT-DIPPED GALVANIZED, HEADER, HANGER, HORIZONTAL, INSULATED CONCRETE FORMS, INFORMATION, POUNDS, LAMINATED STRAND LUMBER, LAMINATED VENEER LUMBER, MAX (Maximum), MFR (Manufacturer), MIN (Minimum), NOT TO SCALE, ON CENTER, POUNDS PER CUBIC FOOT, POUNDS PER LINEAR FOOT, POUNDS PER SQUARE FOOT, POUNDS PER SQUARE INCH, PARALLEL STRAND LUMBER, PRESSURE TREATED, QUADRUPLE JOIST, REINFORCE, STRUCTURAL ENGINEER OF RECORD, SQUARE FEET, SINGLE JOIST, SPACE (SPACING), SPECIFICATION(S), SPRUCE-PINE-FIR, SIMPSON STRONG-TIE, SOUTHERN YELLOW PINE, TRIPLE JOIST, TRIPLE STUD POCKET, TYPICAL, UNLESS NOTED OTHERWISE, VERTICAL, WITH, WELDED WIRE FABRIC, EXTRA JOIST.

LEGEND

Legend table with symbols and descriptions. Includes symbols for STUD COLUMN AT POINT LOADS, OFFSET POINT LOAD FROM ABOVE, BEARING WALL, OFFSET BEARING WALL ABOVE, BEAM, GIRDER, OR HEADER AS SPECIFIED, JOIST, RAFTER, OR TRUSS AS SPECIFIED, MECHANICAL FASTENER, FULL HEIGHT MASONRY OR NATURAL STONE VENEER, MASONRY OR NATURAL STONE VENEER WATERTABLE BELOW, PLUMBING OR APPLIANCES ABOVE, SOLID GROUTED MASONRY, ROOF SUPPORT BELOW, FULL HEIGHT MASONRY OR NATURAL STONE VENEER BELOW ROOF.

MECHANICAL FASTENERS

ALLOWABLE I-JOIST SUBSTITUTIONS

Table mapping BEAM SIZE, FASTENER, and SPECIFIED SERIES to EQUIVALENT SERIES. Includes entries for (2)-2x6 OR (2)-2x8, (2)-2x10 OR (2)-2x12, (1)-PLY LSL OR LVL, (2)-PLY LSL OR LVL, (3)-PLY LSL OR LVL, T&J 110, T&J 210, T&J 230, T&J 360, T&J 560, BCI 4500s 1.8, BCI 5000s 1.8, BJI 40, LPI 20PLUS, NI-40x, BCI 6000s 1.8, LPI 32PLUS, BCI 60s 2.0, BJI 60, LPI 36, NI-60, BCI 90s 2.0, BJI 80, LPI 56, NI-80.

NOTES:

- MECHANICAL FASTENERS TO BE INSTALLED BASED ON THIS SCHEDULE UNLESS NOTED OTHERWISE.
- ALL SPECIFIED MECHANICAL FASTENERS ARE SIMPSON STRONG-TIE BRAND. OTHER BRAND FASTENERS WITH EQUIVALENT OR BETTER CAPACITY MAY BE SUBSTITUTED.
- ALL MECHANICAL FASTENERS IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT-DIPPED GALVANIZED OR EQUIVALENT CORROSIVE RESISTANT COATING.
- MAINTAIN SPECIFIED JOIST DEPTH, DIRECTION, AND SPACING.
- JOISTS NOT LISTED IN THIS SCHEDULE MAY BE SUBSTITUTED PROVIDED THEY MEET OR EXCEED THE PROPERTIES OF THOSE LISTED.



Digitally signed by Zachary H. Hayes, PE
Date: 2023.12.07 17:03:37 -05'00'

HAYES STRUCTURAL Consulting & Design, PLLC
NC FIRM LICENSE NO.: P-2854
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ZACH@HAYESSTRUCTURAL.COM | (919) 210-3480

FLEMING RESIDENCE
354 POINTER CREEK DR.
ANGIER, NC 27501

PROJECT NO.: 23-KAHD-002
DATE: DECEMBER 7, 2023
11x17 PRINT SCALE: 1/2" = 1'-0" (UNO)
24x36 PRINT SCALE: 1/4" = 1'-0" (UNO)
SHEET: STANDARD STRUCTURAL NOTES

S-0



Digitally signed
by Zachary H.
Hayes, PE
Date: 2023.12.07
17:04:13 -05'00'

- CRAWL SPACE FRAMING NOTES:**
- SOLID SAWN FRAMING LUMBER TO BE SPF #2 OR SYP #2.
 - ALL LOAD BEARING HEADERS TO BE (2) 2x6 UNO.
 - PROVIDE AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLAN.
 - FOUNDATION WALLS MAY BE STEPPED DOWN TO FRAMED CRIPPLE WALLS AS GRADE PERMITS. CRIPPLE WALLS TO BE 2x4 @ 12" O.C. OR 2x6 @ 16" O.C. UNO.
 - ALL FRAMED WALLS TO BE SHEATHED WITH 7/8" APA RATED OSB EXPOSURE 1 ATTACHED WITH 8d NAILS @ 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN PANEL FIELD (UNO) TO SATISFY WALL BRACING REQUIREMENTS PER SECTION R602.10.3 "CONTINUOUS SHEATHING" OF THE 2018 NCR.C.
 - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

LEGEND

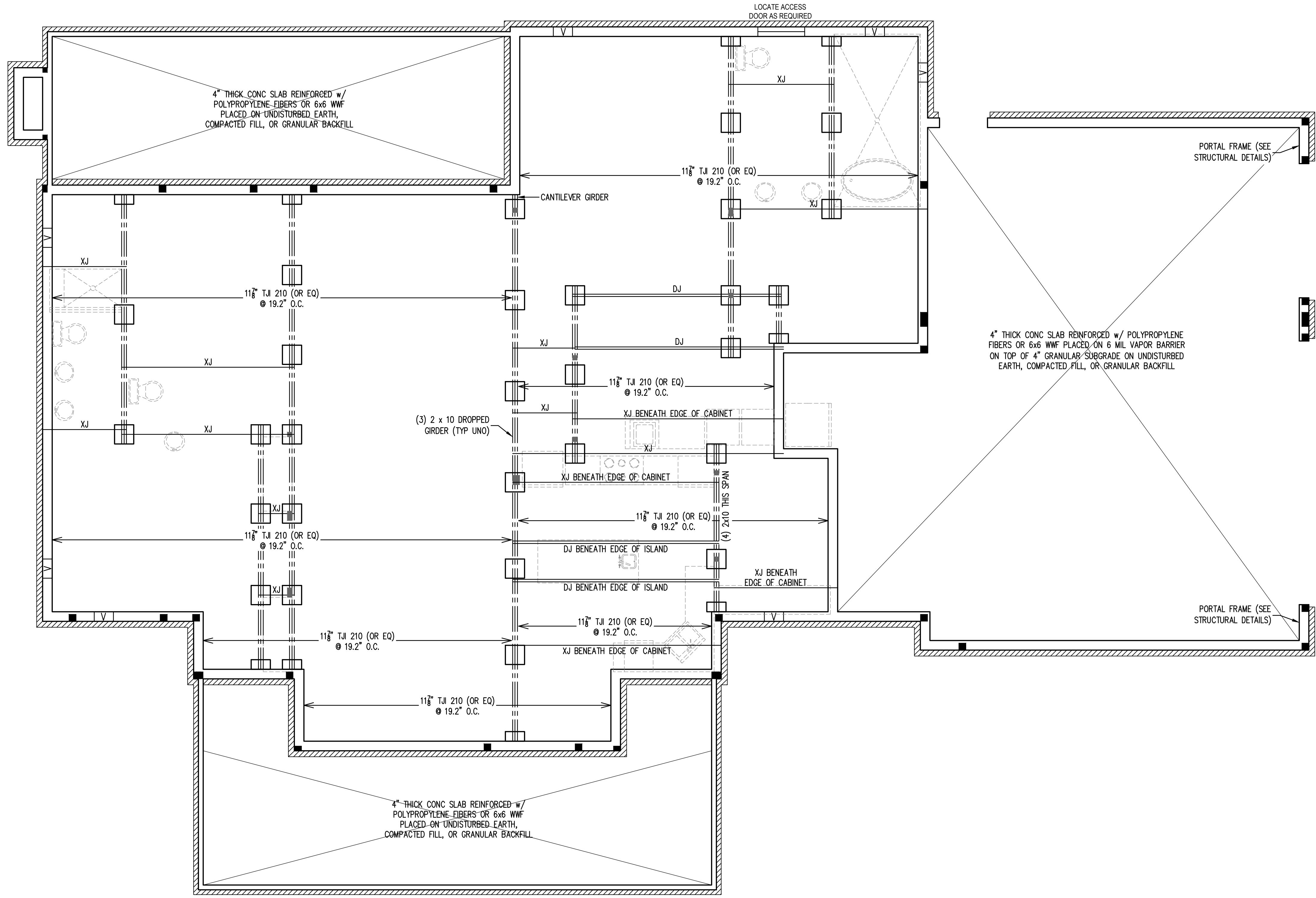
■	POINT LOAD ABOVE THAT REQUIRES SOLID BLOCKING TO FOUNDATION
■	OFFSET POINT LOAD FROM ABOVE TO BE SUPPORTED BY GIRDER, BEAM, HEADER, JOIST, OR BLOCKING AS SPECIFIED
---	BEAM, GIRDER, OR HEADER AS SPECIFIED
---	JOIST, RAFTER, OR TRUSS AS SPECIFIED
▨	BRICK VENEER
○	PLUMBING ABOVE (FOR REFERENCE ONLY, REFER TO ARCH PLANS)

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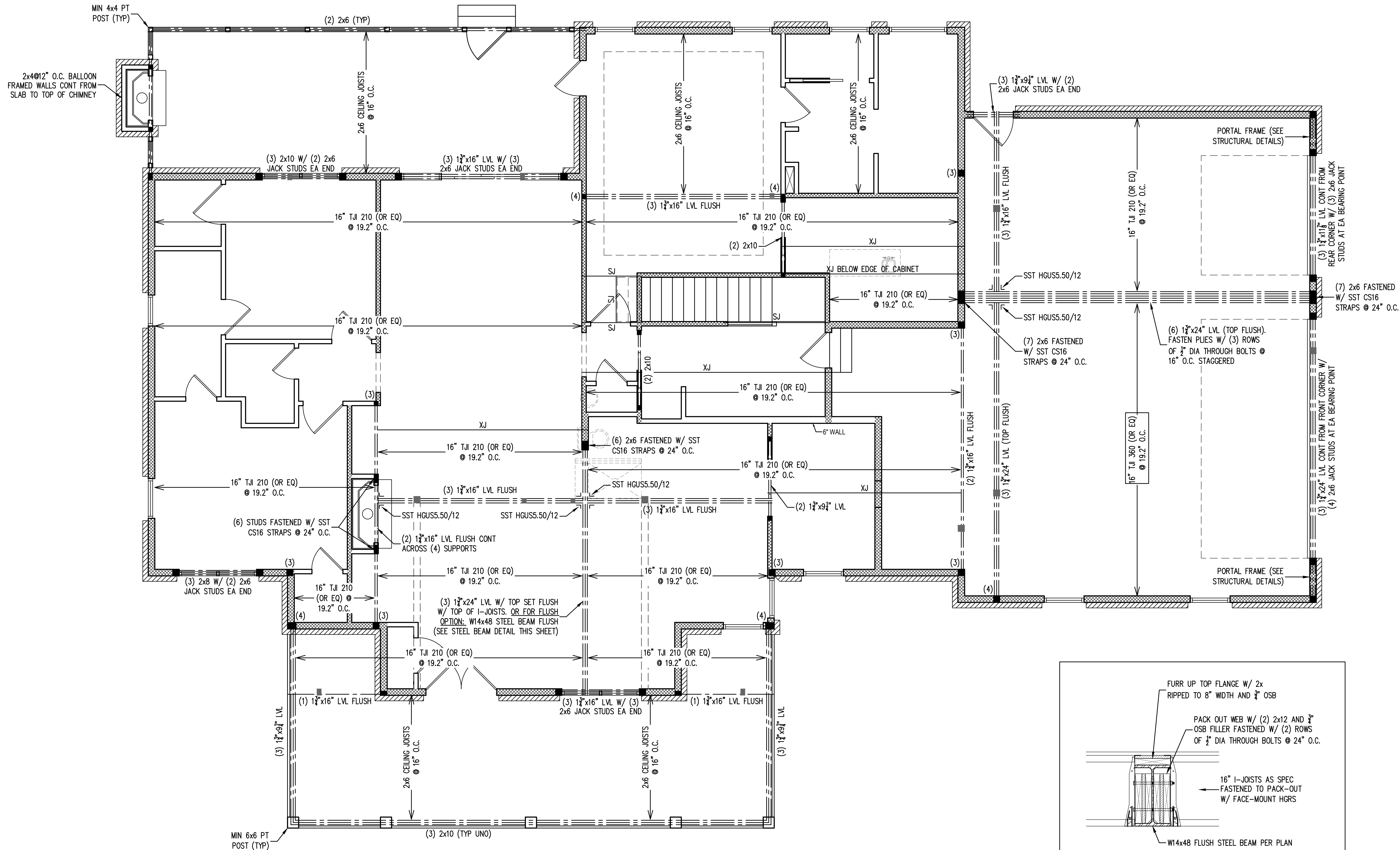
FLEMING RESIDENCE
354 POINTER CREEK DR.
ANGIER, NC 27501

PROJECT NO.: 23-KAHD-002
DATE: DECEMBER 7, 2023
11x17 PRINT SCALE: 1/8" = 1'-0" (UNO)
24x36 PRINT SCALE: 1/8" = 1'-0" (UNO)
SHEET: CRAWL SPACE FRAMING PLAN

S-2



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- FIRST FLOOR FRAMING NOTES:**
- SOLID SAWN FRAMING LUMBER TO BE SPF #2 OR SYP #2.
 - ALL LOAD BEARING HEADERS TO BE (2) 2x6 UNO.
 - HEADERS TO BE SUPPORTED BY JACK STUDS AND KING STUDS PER THE TABLE BELOW UNO.
 - EXTERIOR AND INTERIOR LOAD BEARING WALLS TO BE 2x4 @ 16" O.C. OR 2x6 @ 24" O.C. UNO.
 - ALL EXTERIOR WALLS TO BE SHEATHED WITH 1/2" APA RATED OSB EXPOSURE 1 ATTACHED WITH 8d NAILS @ 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN PANEL FIELD (UNO) TO SATISFY WALL BRACING REQUIREMENTS PER SECTION R602.10.3 "CONTINUOUS SHEATHING" OF THE 2018 NCRS.
 - PROVIDE AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS WHERE NOTED ON THE PLAN.
 - EXTERIOR POSTS TO BE SECURED TO BAND AT BOTTOM AND BEAM AT TOP WITH (1) SST H6, (2) SST H2.5A, OR (1) SST CS16 STRAP WITH MIN 9" END LENGTHS. FOR MASONRY OR CONCRETE FOUNDATIONS, SECURE POSTS AT BOTTOM WITH A SST ABU POST BASE FOR THE SPECIFIED POST SIZE.
 - REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

HEADER SUPPORT

CLEAR SPAN:	JACK STUDS:	KING STUDS (EXTERIOR):	KING STUDS (INTERIOR):
UP TO 3'	(1)	(1)	(1)
>3' TO 6'	(2)	(2)	(1)
>6' TO 9'	(2)	(3)	(2)
>9' TO 12'	(3)	(4)	(2)
>12' TO 15'	(3)	(5)	(3)
>15' TO 18'	(4)	(6)	(3)

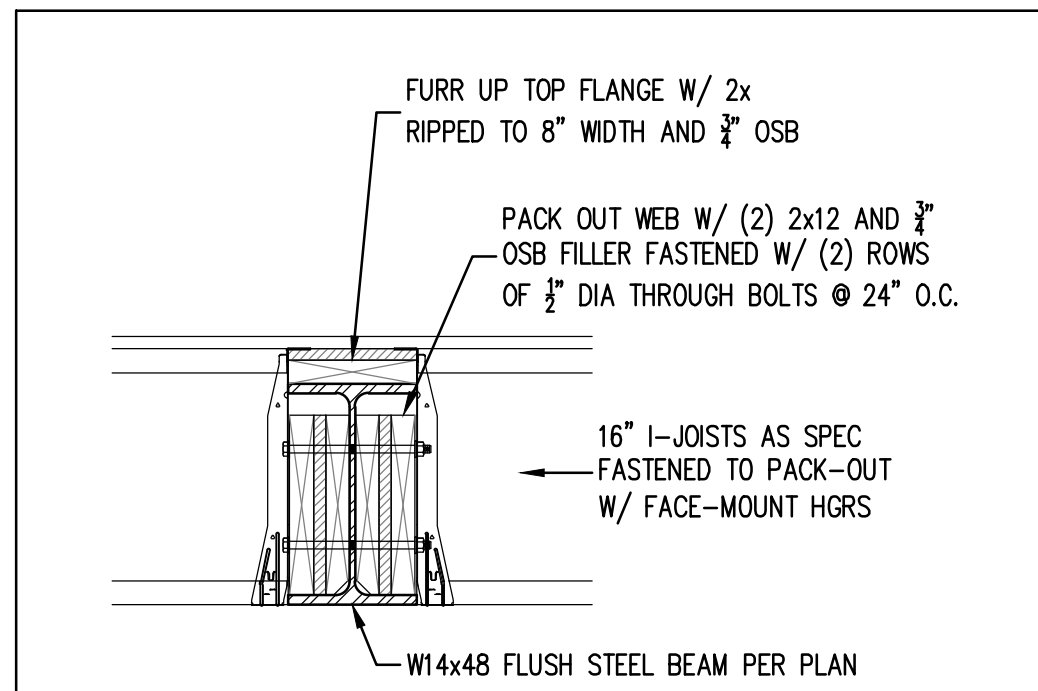
LEGEND

■ (#)	STUD COLUMN AT POINT LOADS THAT REQUIRES SOLID BLOCKING TO ORDER OR FOUNDATION. (#) DENOTES NUMBER OF STUDS. (2) STUDS REQUIRED IF NOT SPECIFIED.
■	OFFSET POINT LOAD FROM ABOVE TO BE SUPPORTED BY GIRDER, BEAM, HEADER, JOIST, OR BLOCKING AS SPECIFIED
▨	BEARING WALL
▤	OFFSET BEARING WALL ABOVE
▥	BEAM, GIRDER, OR HEADER AS SPECIFIED
▧	JOIST, RAFTER, OR TRUSS AS SPECIFIED
⌈	MECHANICAL FASTENER (REFER TO SCHEDULE ON SHEET S-0)
▩	FULL HEIGHT BRICK VENEER
⊙	PLUMBING ABOVE (FOR REFERENCE ONLY, REFER TO ARCH PLANS)

SUPPORT OF MASONRY OR NATURAL STONE VENEER ABOVE OPENINGS

CLEAR SPAN:	SIZE OF STEEL ANGLE:
UP TO 3'	3x3x1/4
>3' TO 6'	5x3x3/8 (LONG LEG VERTICAL)
>6' TO 8'	6x4x3/8 (LONG LEG VERTICAL)

- STEEL ANGLE NOTES:**
- VENEER ABOVE OPENINGS WITH A CLEAR SPAN EXCEEDING 8'-0" SHALL BE SUPPORTED BY A 6x4x3/8 STEEL ANGLE FASTENED TO THE HEADER WITH (2) ROWS OF 1/2" DIAMETER LAG SCREWS @ 16" O.C. UNLESS NOTED OTHERWISE.
 - STEEL ANGLES SHALL BE EMBEDDED MINIMUM 4" INTO THE VENEER AT EACH SIDE OF THE OPENING.



1 STEEL BEAM DETAIL
 11x17 PRINT SCALE: 1/2" = 1'-0"
 24x36 PRINT SCALE: 1" = 1'-0"

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PROJECT NO.: 23-KAHD-002
 DATE: DECEMBER 7, 2023
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 24x36 PRINT SCALE: 1" = 1'-0" (UNO)
 SHEET: FIRST FLOOR FRAMING PLAN

S-3

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DATE: DECEMBER 7, 2023
11x17 PRINT SCALE: 1/2" = 1'-0" (UNO)
24x36 PRINT SCALE: 1/4" = 1'-0" (UNO)
SHEET: SECOND FLOOR
FRAMING PLAN

S-4

- SECOND FLOOR FRAMING NOTES:**
- SOLID SAWN FRAMING LUMBER TO BE SPF #2 OR SYP #2.
 - LOAD BEARING HEADERS TO BE (2) 2x6 UNO.
 - HEADERS TO BE SUPPORTED BY JACK STUDS AND KING STUDS PER THE TABLE BELOW UNO.
 - EXTERIOR AND INTERIOR LOAD BEARING WALLS TO BE 2x4 @ 16" O.C. OR 2x6 @ 24" O.C. UNO.
 - EXTERIOR WALLS TO BE SHEATHED WITH 7/8" APA RATED OSB EXPOSURE 1 ATTACHED WITH 8d NAILS @ 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN PANEL FIELD (UNO) TO SATISFY WALL BRACING REQUIREMENTS PER SECTION R602.10.3 "CONTINUOUS SHEATHING" OF THE 2018 NCR. REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

HEADER SUPPORT

CLEAR SPAN:	JACK STUDS:	KING STUDS (EXTERIOR):	KING STUDS (INTERIOR):
UP TO 3'	(1)	(1)	(1)
>3' TO 6'	(2)	(2)	(1)
>6' TO 9'	(2)	(3)	(2)
>9' TO 12'	(3)	(4)	(2)
>12' TO 15'	(3)	(5)	(3)
>15' TO 18'	(4)	(6)	(3)

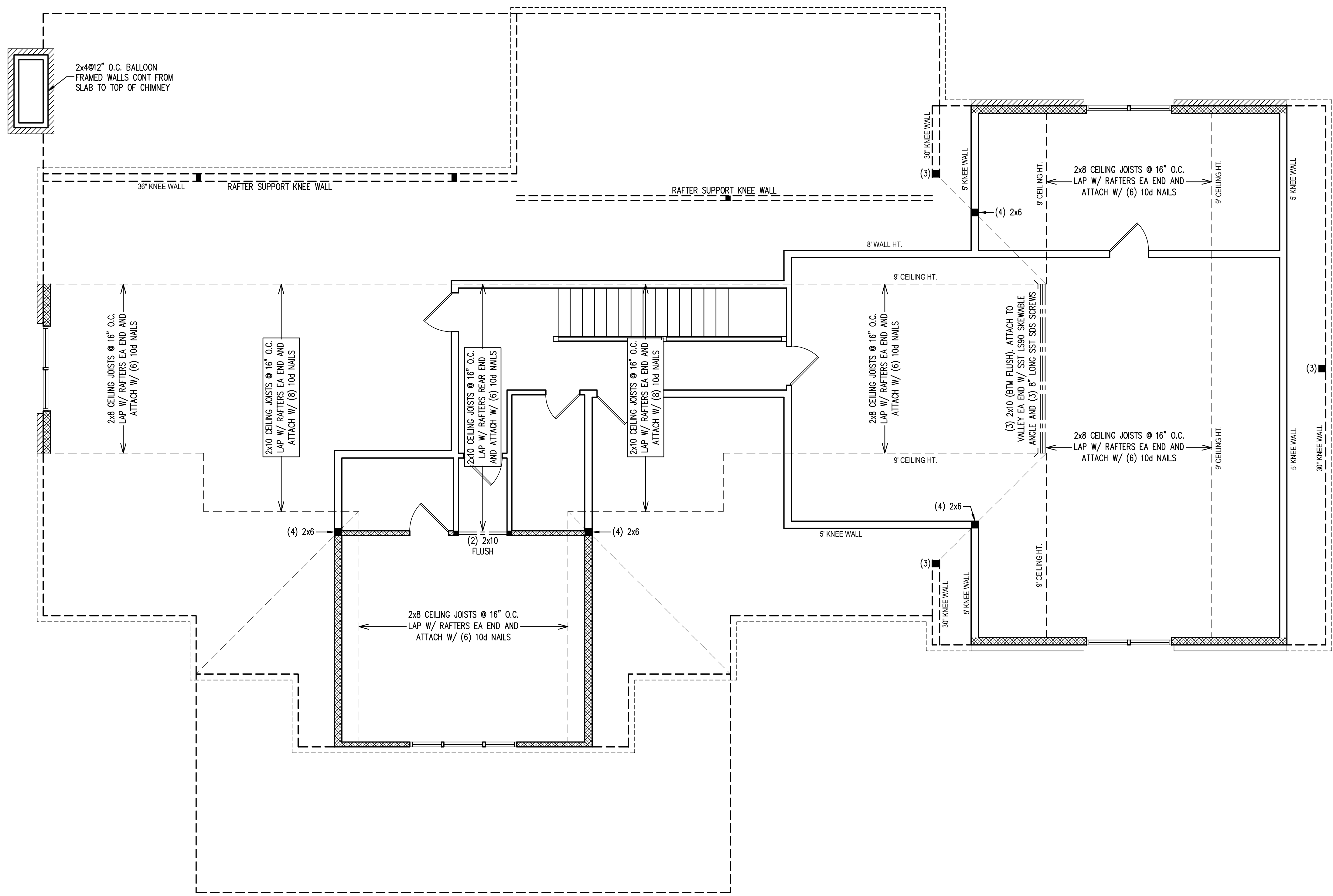
LEGEND

■ (#)	STUD COLUMN AT POINT LOADS THAT REQUIRES SOLID BLOCKING TO GIRDER OR FOUNDATION. (#) DENOTES NUMBER OF STUDS. (2) STUDS REQUIRED IF NOT SPECIFIED.
▨	BEARING WALL
---	BEAM, GIRDER, OR HEADER AS SPECIFIED
T	MECHANICAL FASTENER (REFER TO SCHEDULE ON SHEET S-0)
▨	FULL HEIGHT BRICK VENEER
---	FULL HEIGHT BRICK VENEER BELOW ROOF

SUPPORT OF MASONRY OR NATURAL STONE VENEER ABOVE OPENINGS

CLEAR SPAN:	SIZE OF STEEL ANGLE:
UP TO 3'	3x3x1/4"
>3' TO 6'	5x3x1/4" (LONG LEG VERTICAL)
>6' TO 8'	6x4x1/4" (LONG LEG VERTICAL)

- STEEL ANGLE NOTES:**
- VENEER ABOVE OPENINGS WITH A CLEAR SPAN EXCEEDING 8'-0" SHALL BE SUPPORTED BY A 6x4x1/4" STEEL ANGLE FASTENED TO THE HEADER WITH (2) ROWS OF 1/2" DIAMETER LAG SCREWS @ 16" O.C. UNLESS NOTED OTHERWISE.
 - STEEL ANGLES SHALL BE EMBEDDED MINIMUM 4" INTO THE VENEER AT EACH SIDE OF THE OPENING.



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DATE: DECEMBER 7, 2023

11x17 PRINT SCALE: 1/2" = 1'-0" (UNO)
24x36 PRINT SCALE: 1/4" = 1'-0" (UNO)

SHEET: ROOF FRAMING PLAN

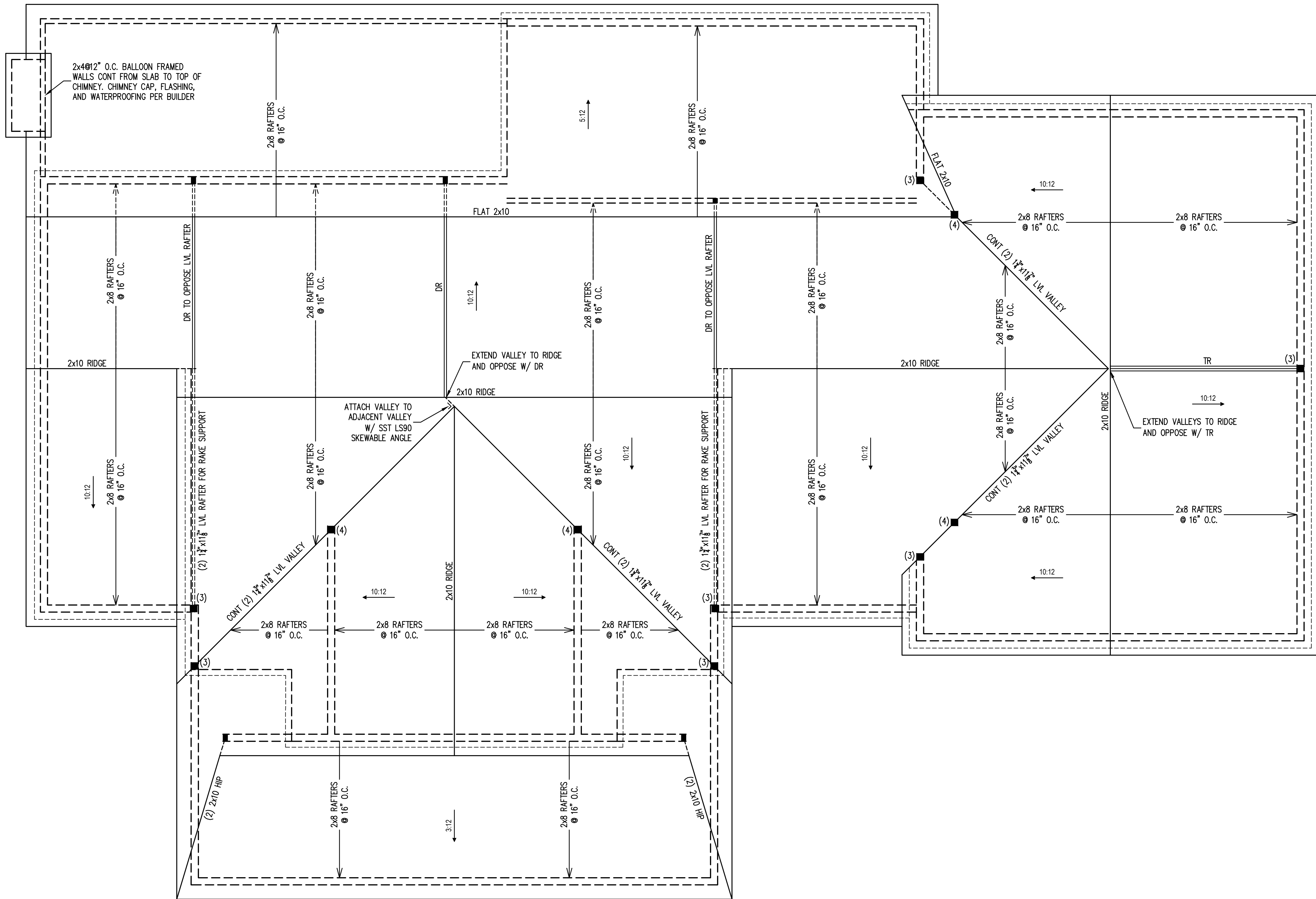
S-5

ROOF FRAMING NOTES:

- SOLID SAWN FRAMING LUMBER TO BE SPF #2 OR SYP #2.
- ROOF SHEATHING TO BE 7/8" MINIMUM APA RATED EXPOSURE 1 ATTACHED TO ROOF FRAMING WITH 8d NAILS @ 6" O.C. ALONG PANEL EDGES AND 12" O.C. IN PANEL FIELD UNO. SHEATHING SHALL HAVE A SPAN RATING THAT MATCHES OR EXCEEDS THE FRAMING SPACING.
- FASTEN FLAT VALLEYS TO EVERY OTHER CROSSING RAFTER (32" O.C. MAXIMUM) W/ (2) 4" LONG SST SDS SCREWS.
- VENER ABOVE ROOF LINES SHALL BE SUPPORTED BY A 6x4x1/8" STEEL ANGLE FASTENED TO (2) 2x10 BLOCKING W/ (2) ROWS OF 1/2" DIAMETER LAG SCREWS @ 16" O.C. BLOCKING TO BE FASTENED TO WALL STUDS AT EACH END WITH (4) 10d TOE NAILS PER PLY. FOR ROOF SLOPES EXCEEDING 7:12, WELD 3"x3"x1/4" STEEL PLATE STOPS @ 24" O.C. TO STEEL ANGLE.
- REFER TO NOTES AND DETAIL SHEETS FOR ADDITIONAL STRUCTURAL INFORMATION.

LEGEND

■ (#)	STUD COLUMN AT POINT LOADS THAT REQUIRES SOLID BLOCKING TO ORDER OR FOUNDATION. (#) DENOTES NUMBER OF STUDS. (2) STUDS REQUIRED IF NOT SPECIFIED.
—	RAFTER OR TRUSS AS SPECIFIED
---	ROOF SUPPORT BELOW
----	FULL HEIGHT BRICK VENER BELOW ROOF



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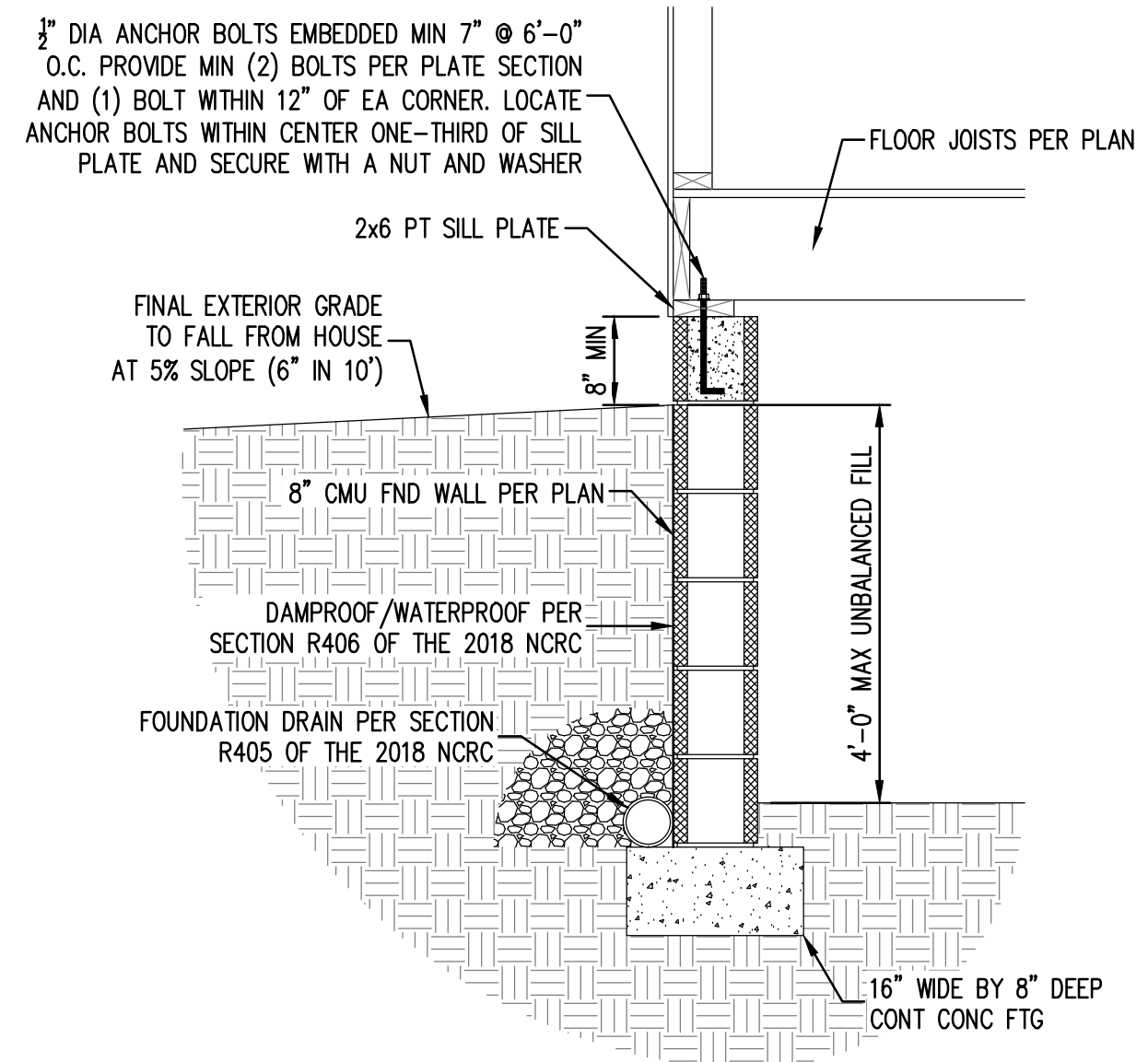
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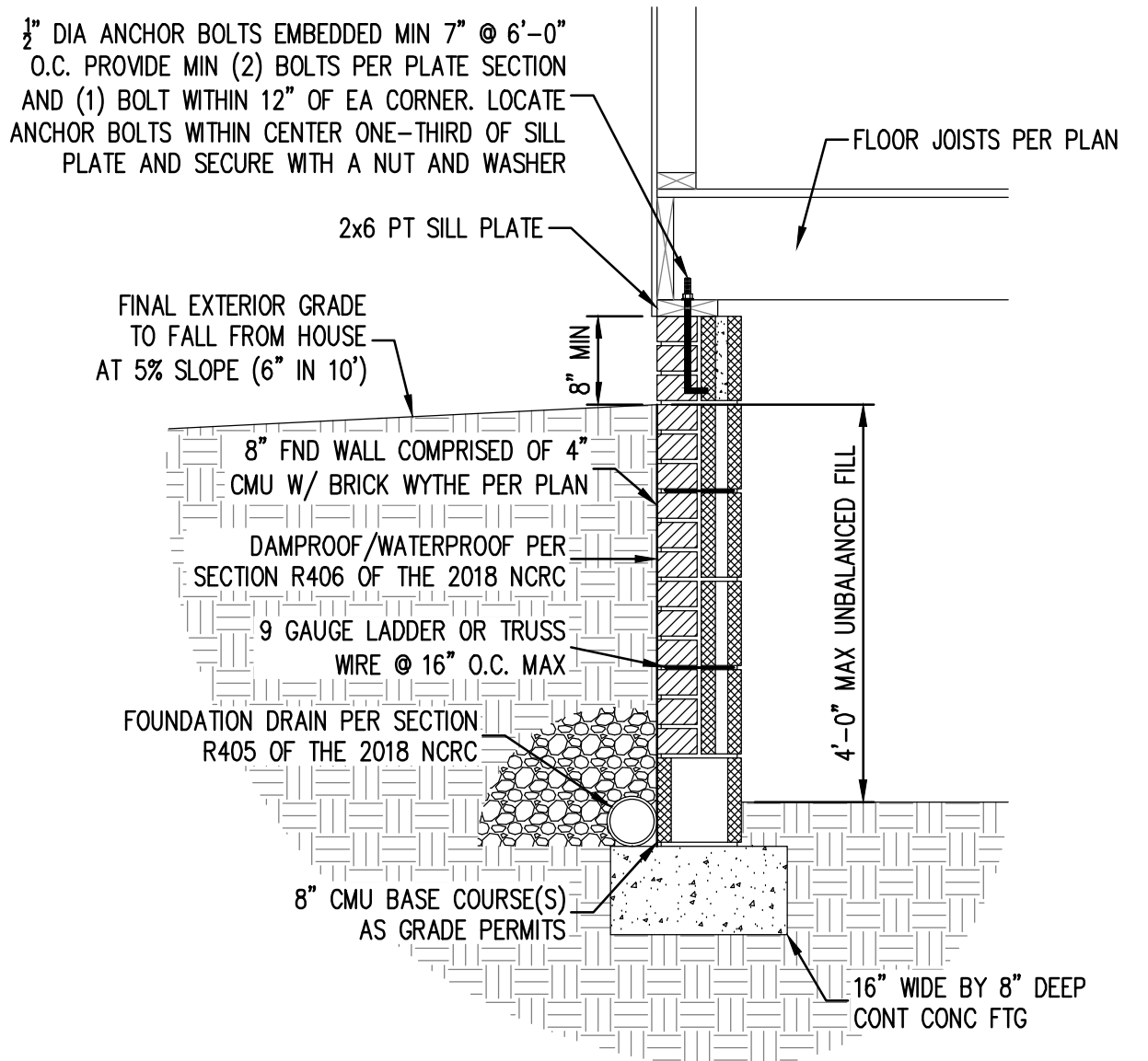
PROJECT NO.: 23-KAHD-002
DATE: DECEMBER 7, 2023
SCALE: AS NOTED
SHEET: STRUCTURAL DETAILS

SD-1

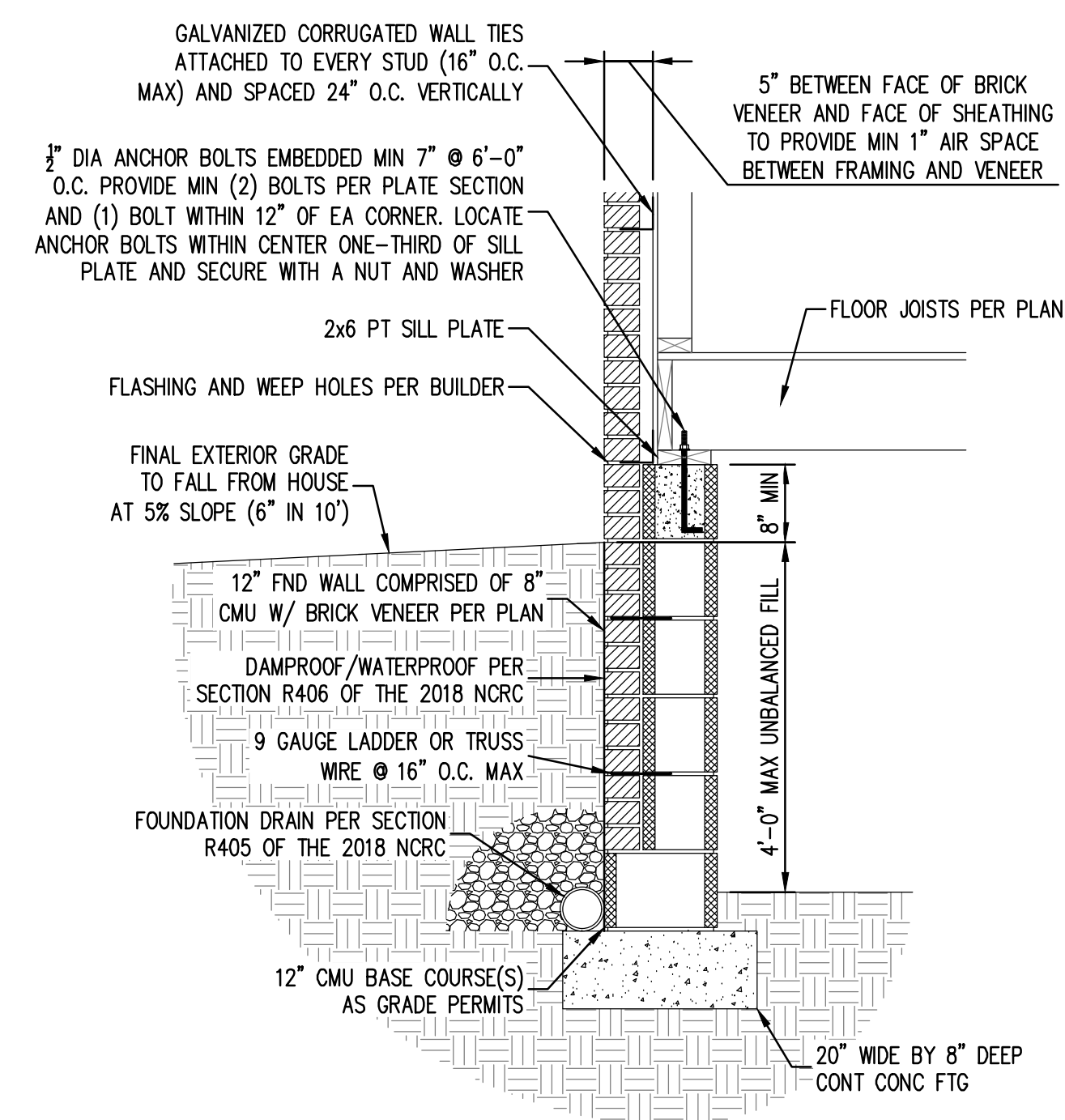
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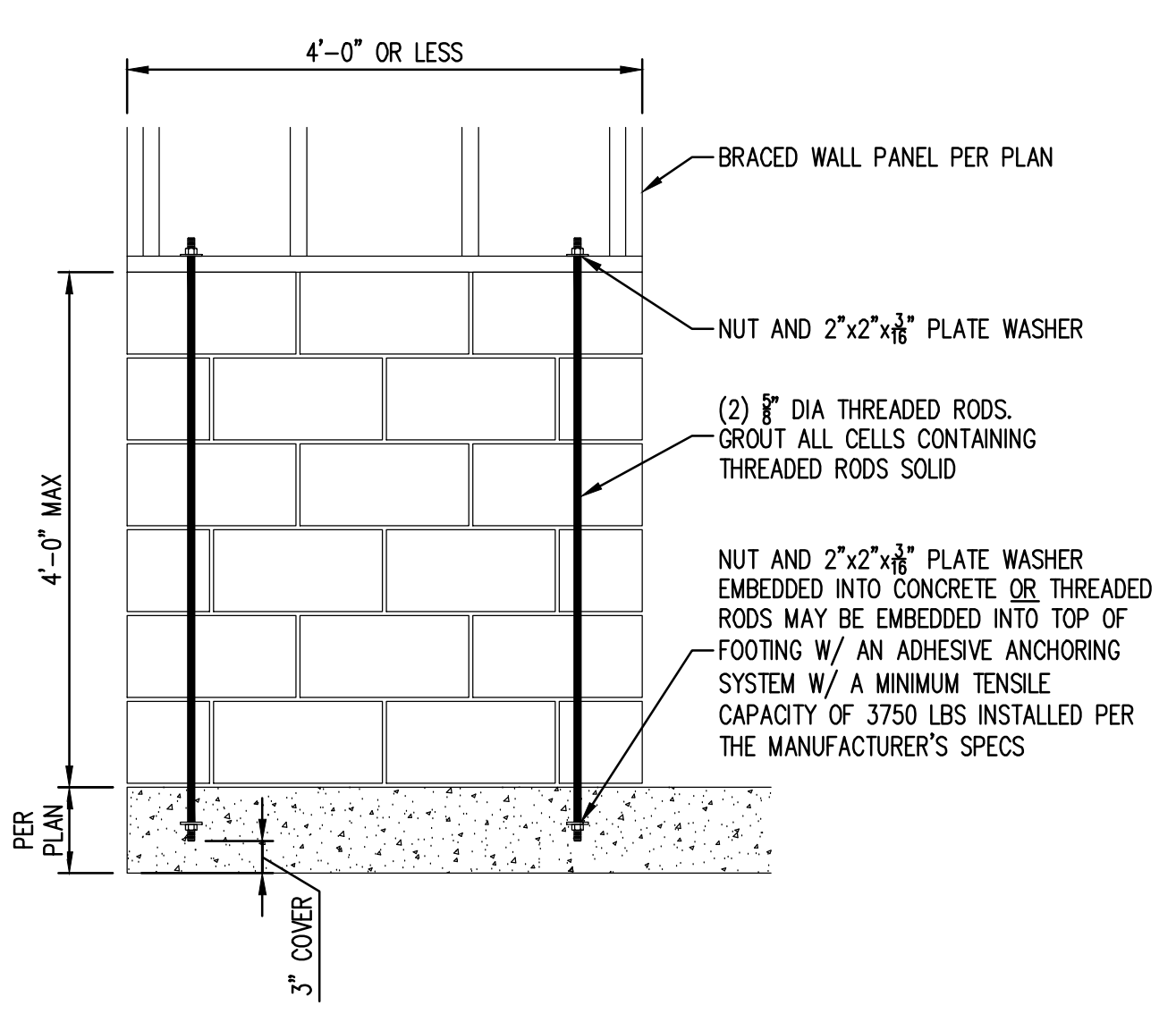
1 TYPICAL FOUNDATION WALL
SD-1
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24x36 PRINT SCALE: 1/8" = 1'-0"



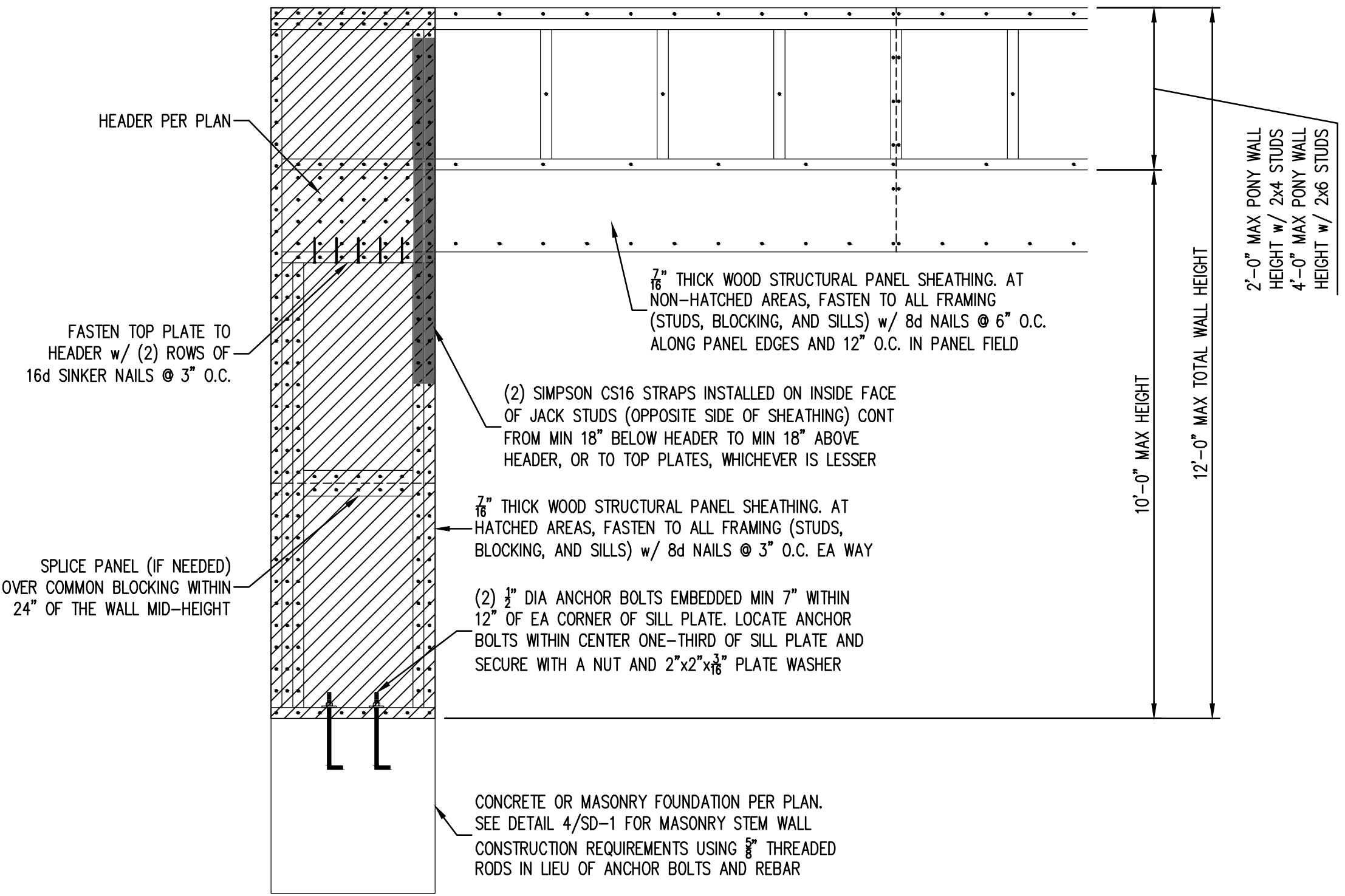
2 FOUNDATION WALL WITH BRICK WYTHE
SD-1
11x17 PRINT SCALE: 1/4" = 1'-0"
24x36 PRINT SCALE: 1/8" = 1'-0"



3 FOUNDATION WALL WITH BRICK VENEER
SD-1
11x17 PRINT SCALE: 1/4" = 1'-0"
24x36 PRINT SCALE: 1/8" = 1'-0"



4 MASONRY STEM WALL SUPPORTING BRACED WALL PANEL WITH LENGTH OF 4'-0" OR LESS
SD-1
11x17 PRINT SCALE: 1/4" = 1'-0"
24x36 PRINT SCALE: 1/8" = 1'-0"



5 METHOD PF-PORTAL FRAME CONSTRUCTION DETAIL
SD-1
11x17 PRINT SCALE: 1/4" = 1'-0"
24x36 PRINT SCALE: 1/8" = 1'-0"



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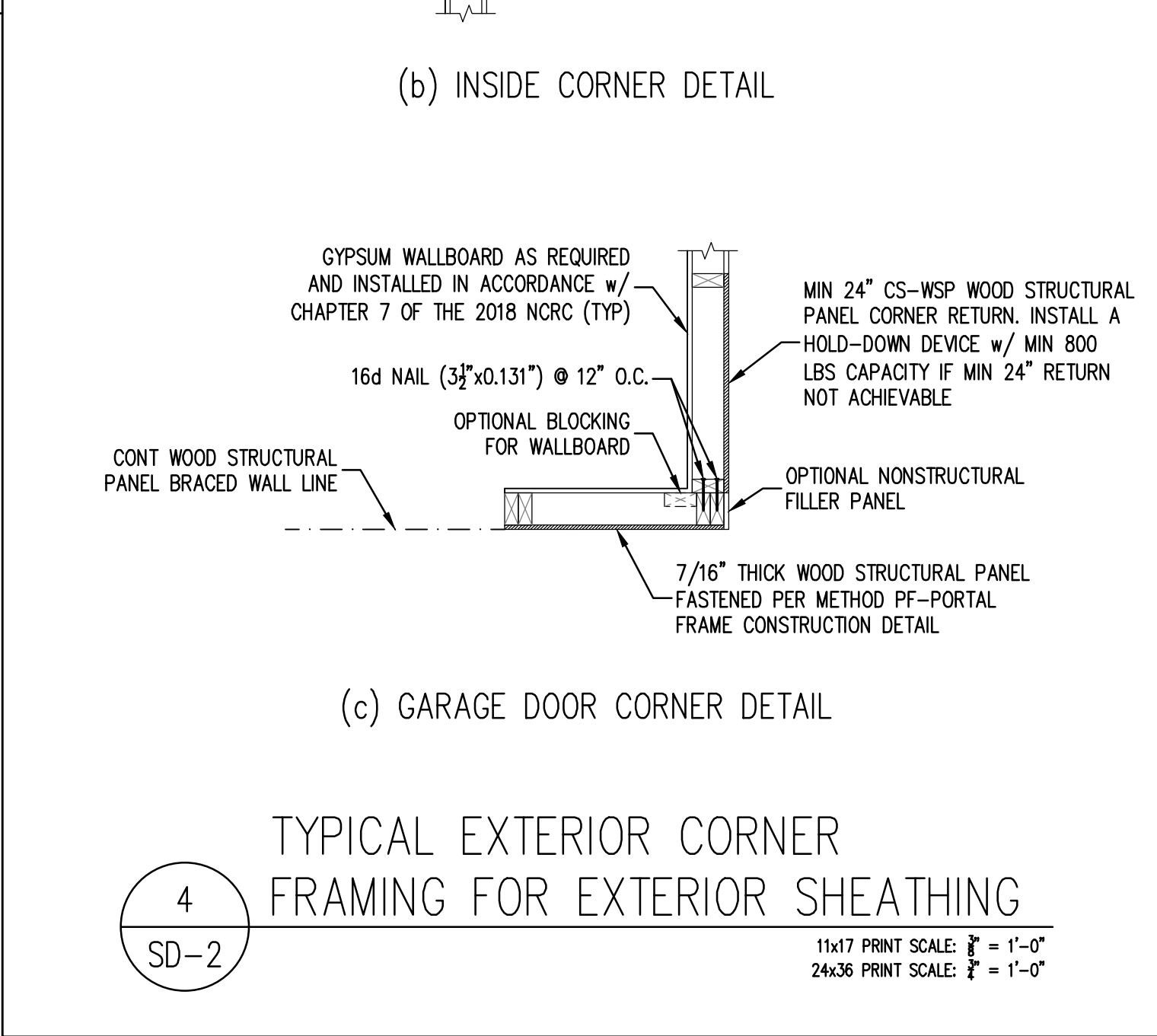
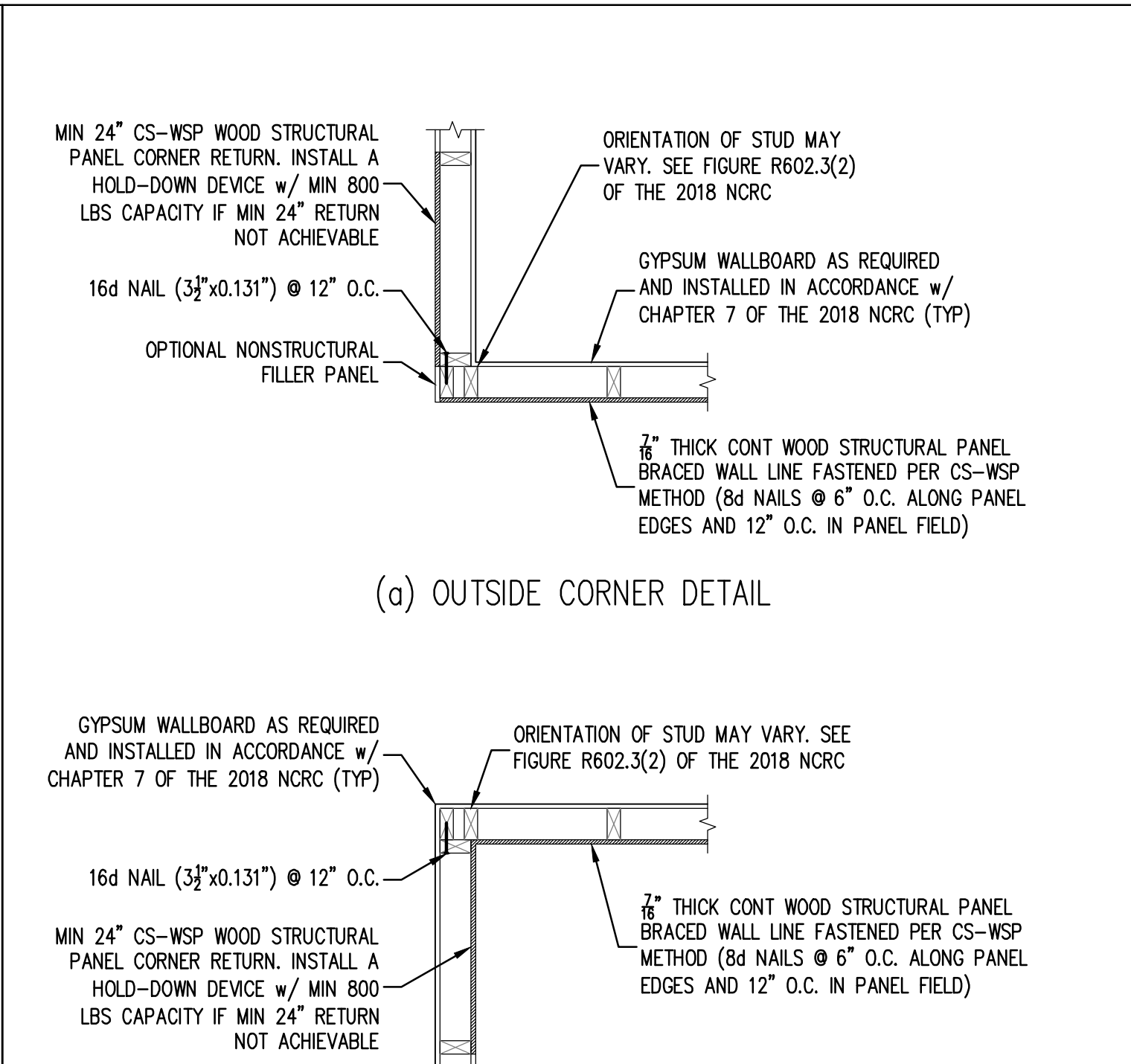
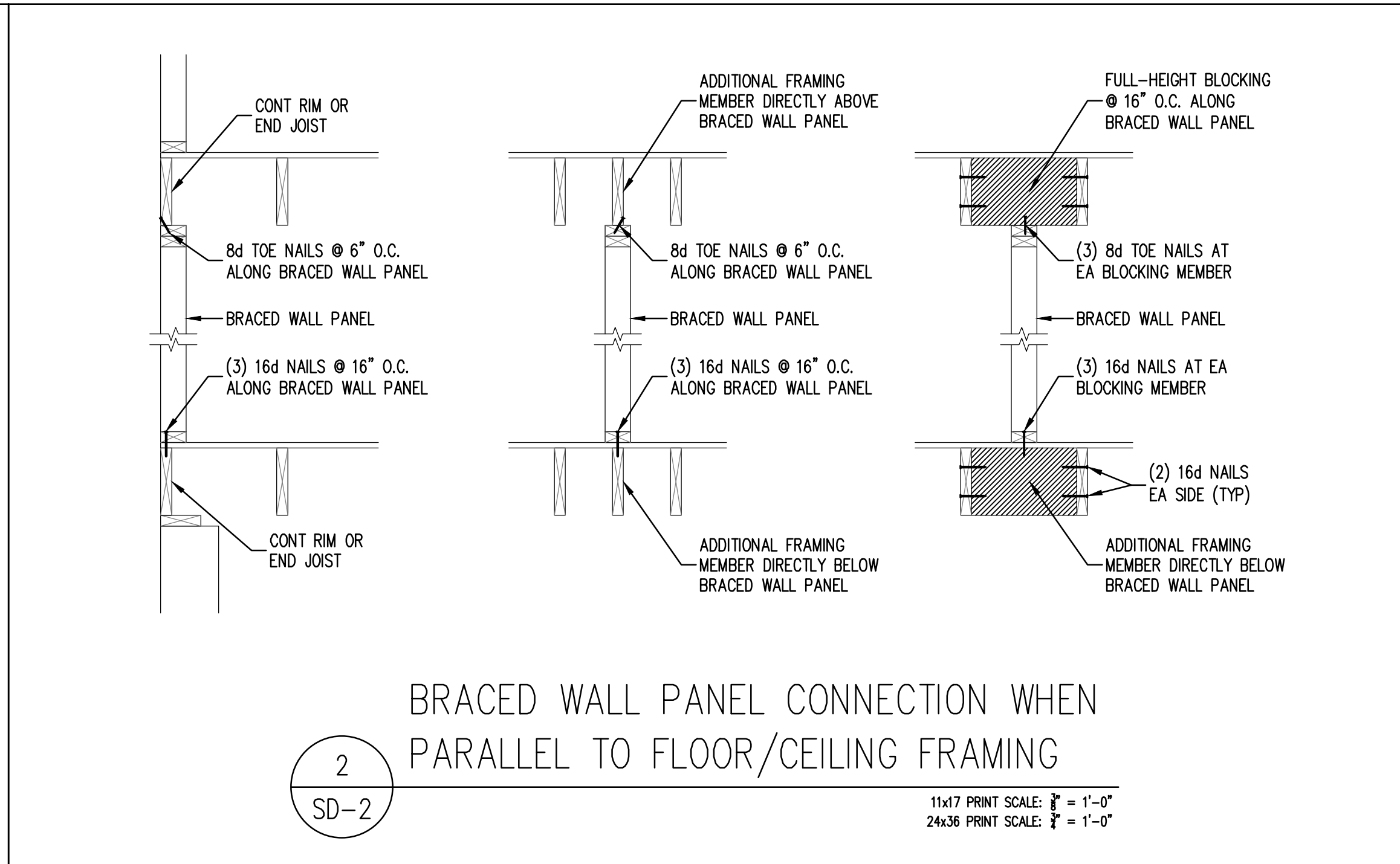
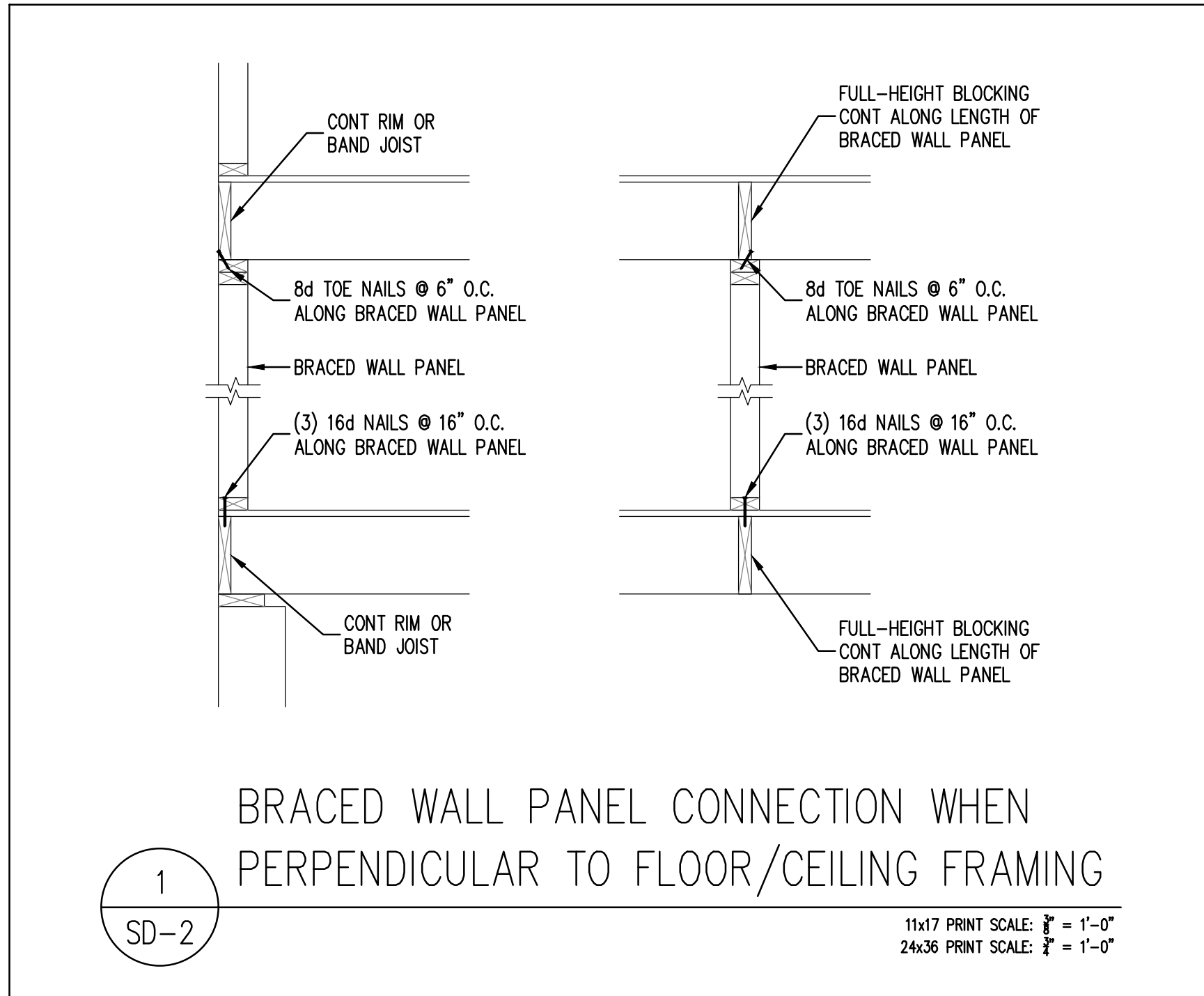
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DATE: DECEMBER 7, 2023
SCALE: AS NOTED
SHEET: STRUCTURAL DETAILS

SD-2

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SD-2