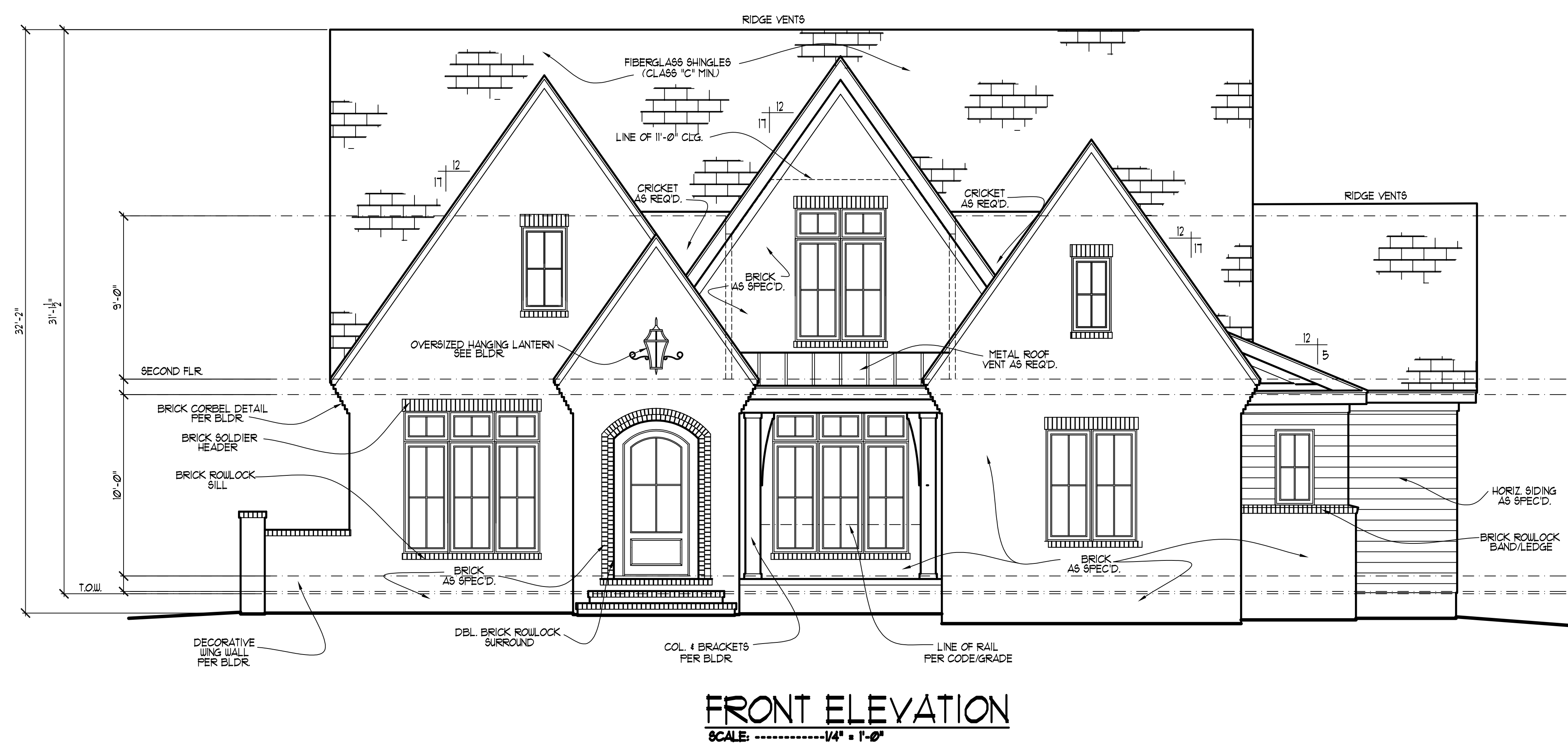
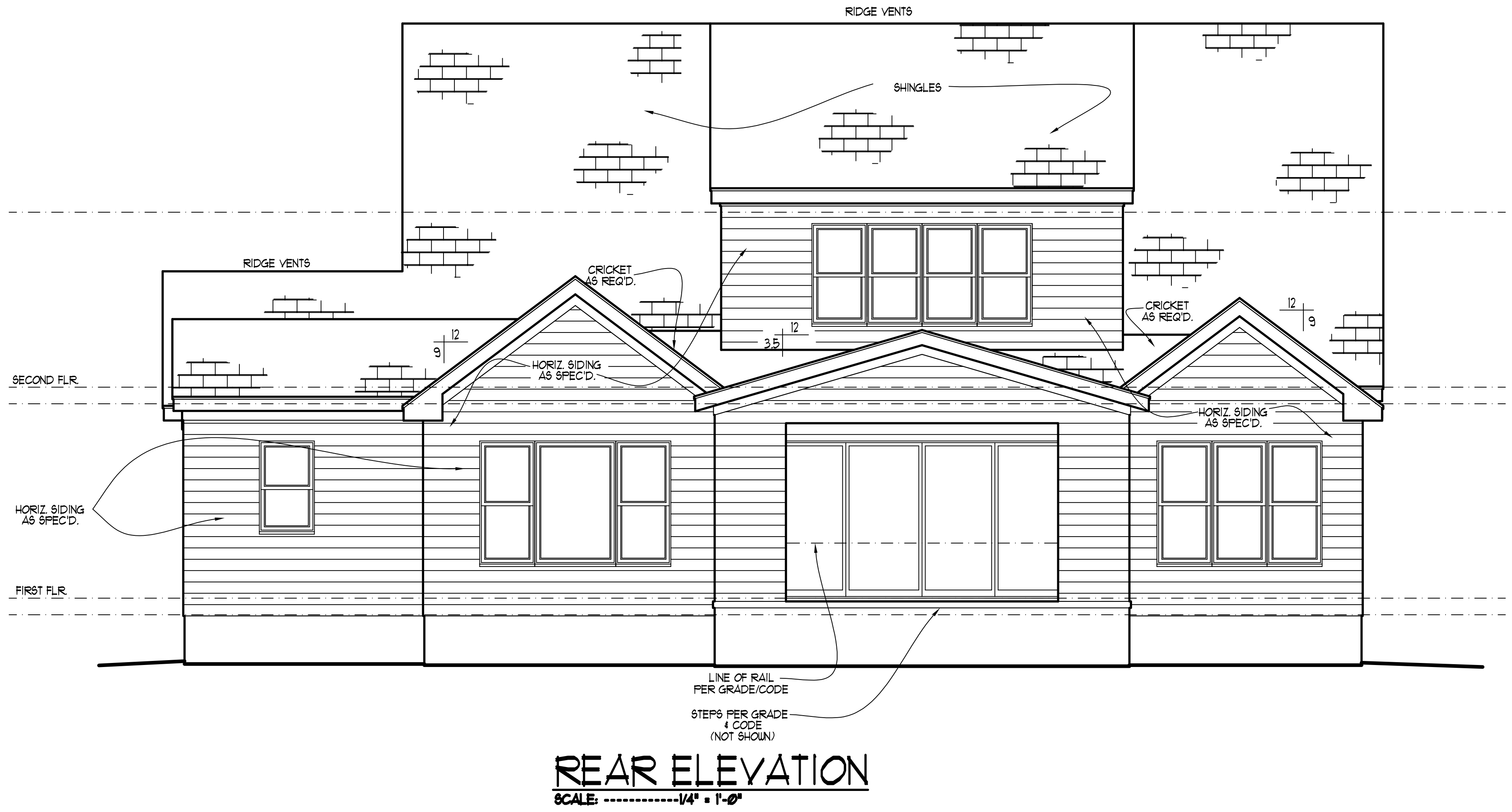




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ATTIC VENTILATION
4206 ± 1402 sq. ft. REQ'D.
3000
* () - BASE, / VENTS =
* () - BASE, / VENTS =
*
* (142') - RIDGE VENT @ 9 sq.in./ft. = 887 SQ. FT.
TOTAL = 887 SQ. FT.
** PROVIDE CONTINUOUS SOFFIT VENT SURROUND
TO EQUAL OR EXCEED 101 SQ. FT.
*** (OPT.) PROVIDE THERMOSTATICALLY CONTROLLED
POWER VENT TO EQUAL OR EXCEED 101 SQ. FT.

CODE INFORMATION
* ZONE: (CHECK ONE)
ZONE 1
ZONE 2
ZONE
* GLAZING U-FACTOR
* R-VALUES
CEILING R-38
WALL R-15
FLOOR R-19
BSMT. WALL
SLAB PERIMETER
CRAWL SPACE WALL
* MEAN ROOF HEIGHT 21'-0"
* WALL AND ROOF CLADDING DESIGN VALUE:
(MEAN ROOF HGT. 30 FT. OR LESS)
CRAWL SPACE WALL
WALLS +18.0, -24.1
ROOF PITCH 0/12 TO 225/12 +10.0, -45.4
ROOF PITCH 225/12 TO 1/12 +10.4, -34.8
ROOF PITCH 1/12 TO 12/12 +16.5, -21.0
EXPOSURE ADJUSTMENT x

ALL DIMENSIONS, SITE
CONDITIONS & CODES ARE TO
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WAGONER HOMES
1508 GRIST MILL ROAD

DRAWN BY: TUG	
DATE: 9-1-20	
FILE NAME: WH-15-4991	
REVISIONS	
11-15-25	TUG BLDG. HGT.
12-20-22	TUG PLAN
1-15-24	TUG PLAN
11-3-25	TUG R. PORCH

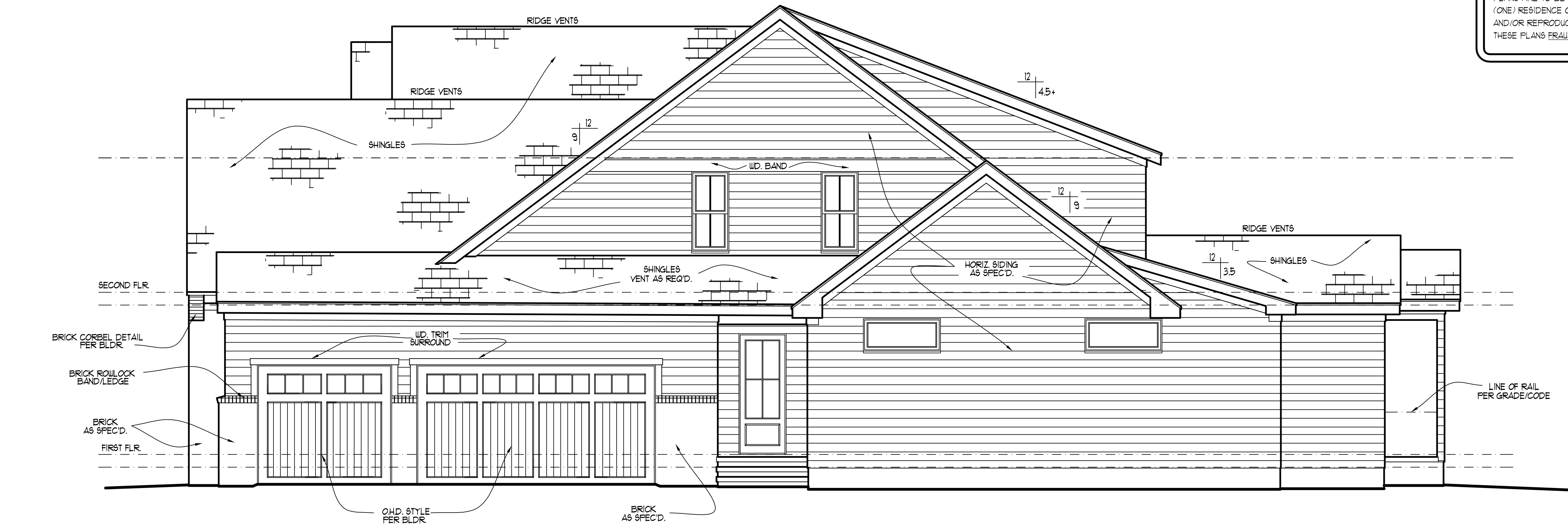
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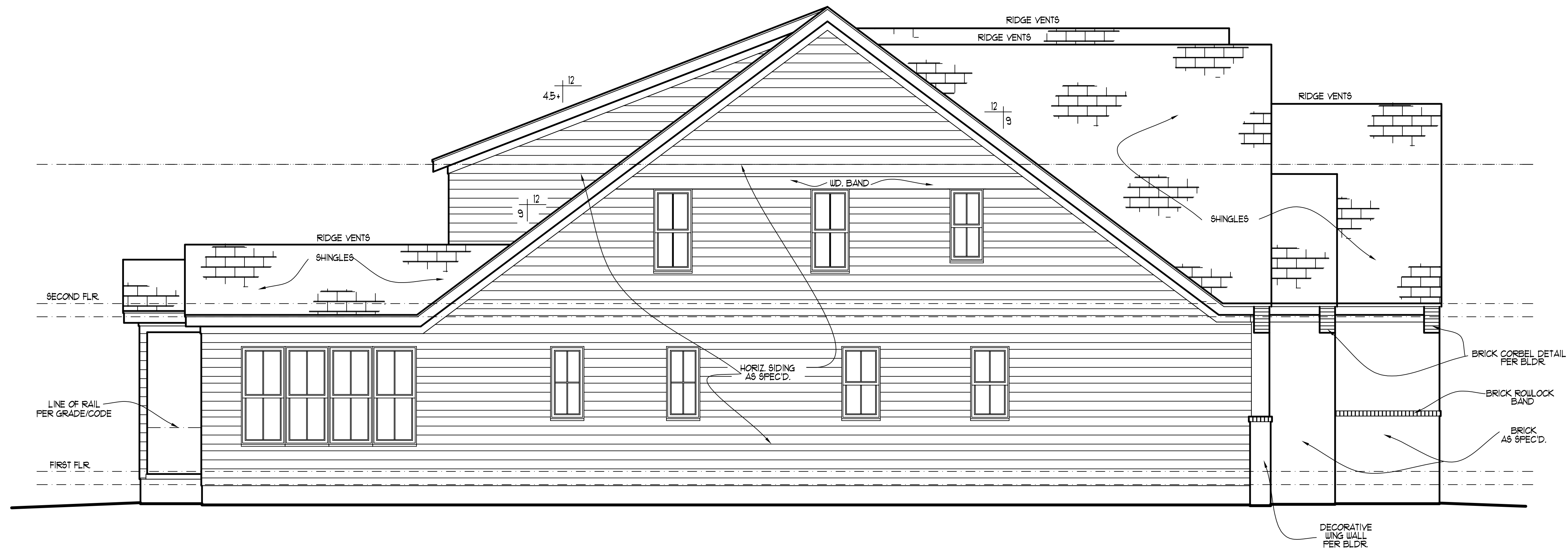
HOUSE NUMBER:

PAGE NUMBER:
1 of 6

THESE PLANS MEET THE REQUIREMENTS OF THE
INTERNATIONAL RESIDENTIAL CODE 2015 AND THE
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RIGHT ELEVATION
SCALE: 1/4" = 1'-0"



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

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WAGONER HOMES

1508 GRIST MILL ROAD

DRAWN BY: TUG
DATE: 9-1-20
FILE NAME: WH-15-4991

REVISIONS	
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12-20-22	TUG PLAN
1-15-24	TUG PLAN
11-3-25	TUG R. PORCH

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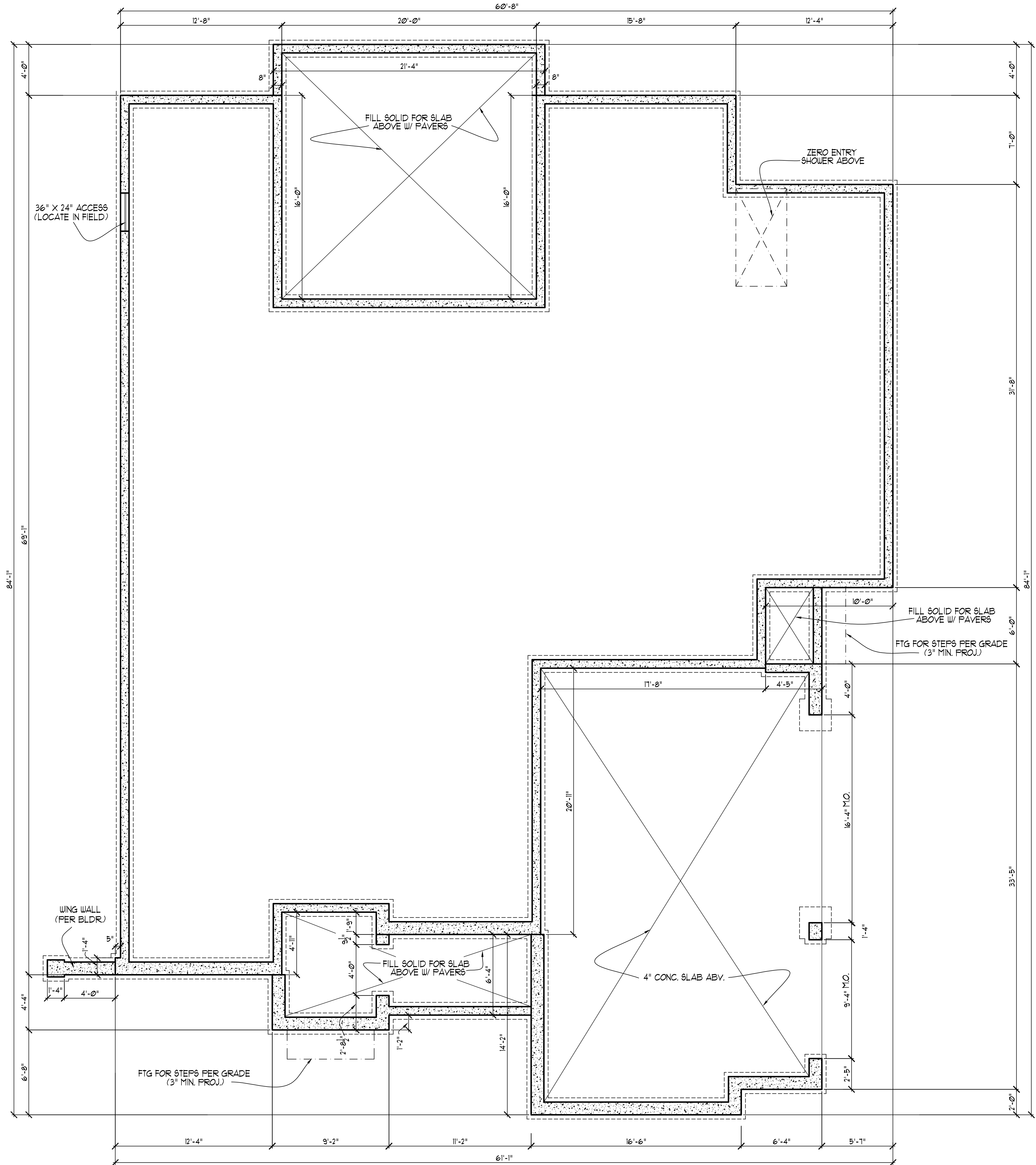
HOUSE NAME:

HOUSE NUMBER:

PAGE NUMBER:

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- FOUNDATION NOTES**
- 1) PROVIDE DBL. BAND @ EXTERIOR WALLS PARALLEL TO FLOOR JOISTS
 - 2) ALL 1/2 PIERS TO BE TIED INTO FND. WALL (BONDED)
 - 3) PROVIDE 1/2" ANCHOR BOLTS @ EXT. WALLS W/ 1" EMBEDMENT @ 6'-0" ONTRS. AND 12" FROM CORNERS
 - 4) CRAWL SPACE TO BE A 'SEALED' CRAWL SPACE. SEE BUILDER FOR REQUIREMENTS.

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WAGONER HOMES
1508 GRIST MILL ROAD

DRAWN BY: TUG	
DATE: 9-1-20	
FILE NAME: WH-15-4991	
REVISIONS	
11-15-25	TUG BLDG. HG.
12-20-22	TUG PLAN
1-15-24	TUG PLAN
11-3-25	TUG R. PORCH

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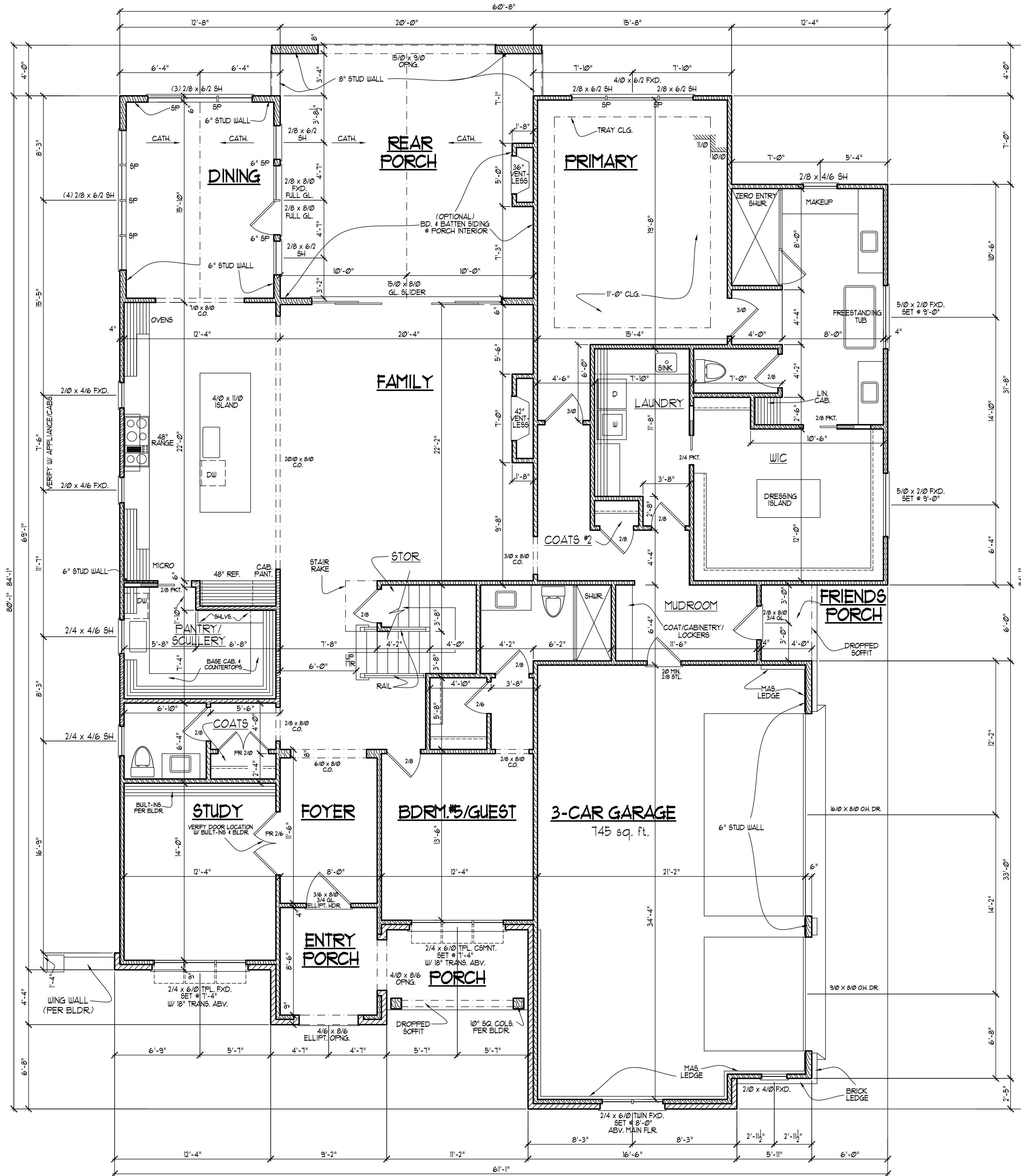
HOUSE NAME:

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PAGE NUMBER:
3 of 6

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

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- FIRST FLOOR NOTES:**
- 1) 10'-0" CLG. HGT. (TYP.) UNO.
 - 2) SET WINDOWS @ 8'-0" AFF. (TYP.) UNO. (VERIFY)
 - 3) STAIRS: UP 11 RISERS @ 7 1/4" (+/-) (TYP.) (VERIFY W/ FLR. SYSTEM.)
 - 4) PROVIDE 5/8" TYPE 'X' GYPSUM @ GARAGE CEILING ADJACENT TO HTD. SPACES. PROVIDE 1/2" GYPSUM @ GARAGE WALLS ADJACENT TO HTD. SPACES
 - 5) ALL WALLS FIGURED AT 4" WIDTHS FOR STUDS. 9" WIDTHS FOR STUD/BRICK (TYP.) UNO.
 - 6) VERIFY ROUGH OPNG'S, SPECS. FOR CODE REQUIREMENTS WITH WINDOW MANUF.
 - 7) SD = SMOKE DETECTOR
 - 8) INT. DOORS TO BE 8'-0" H. (VERIFY W/ BLDR.)

SQUARE FOOTAGE w/o brick

	HTD.	UNHTD.
* FIRST FLR.	2966	145
* SECOND FLR.	2025	292
TOTAL	4991	1031
MISC.		
* ENTRY PORCH		80
* PORCH		12
* FRIENDS PORCH		21
* REAR PORCH		403

WINDW. FALL PROTECTION NOTES:
SEE CODE SECTIONS R612 THRU R612.4 FOR WINDOW FALL PROTECTION DEVICE REQUIREMENTS IF WINDOW SILL IS LESS THAN 24" ABV. FLR. WITH A 6'-0" OR GREATER DISTANCE TO A SURFACE OUTSIDE AND BELOW THE WINDOW.

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WAGONER HOMES
1508 GRIST MILL ROAD

DRAWN BY: **TUG**
DATE: **9-1-20**
FILE NAME: **WH-15-4991**

REVISIONS		
11-15-25	TUG	BLDG. HGT.
12-20-22	TUG	PLAN
1-15-24	TUG	PLAN
11-3-25	TUG	R. PORCH

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HOUSE NAME:

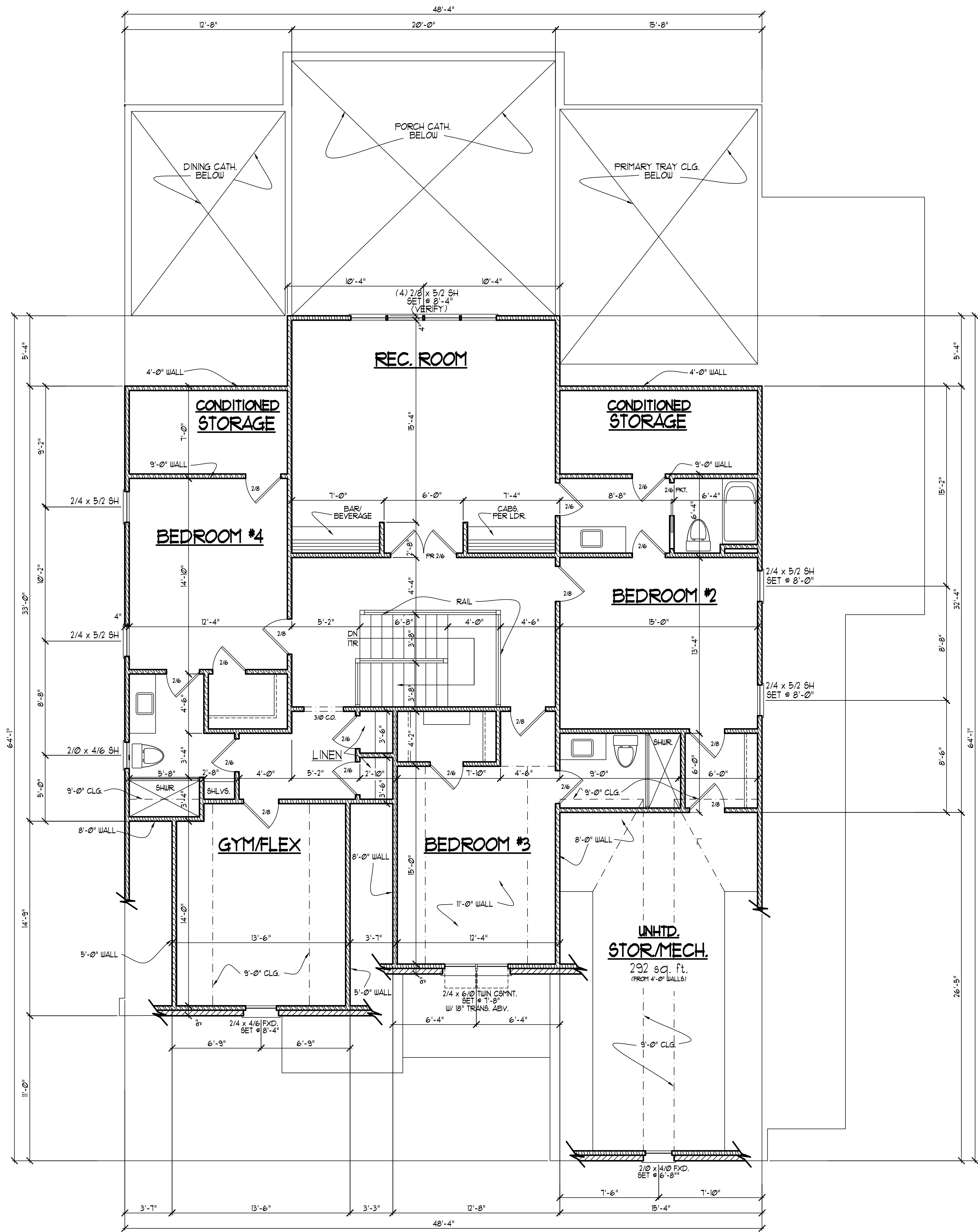
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PAGE NUMBER:

4 of 6

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

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SECOND FLOOR NOTES:

1) 9'-0" CLG. HGT. (TYP.) UNO.
2) SET WINDOWS @ 1'-4" AFF. (TYP.) UNO. (VERIFY)
3) STAIRS: N/A VERIFY ATTIC ACCESS WITH BUILDER.
4) ALL WALLS FIGURED AT 4" WIDTHS FOR STUDS, 9" WIDTHS FOR STUD/BRICK (TYP.) UNO.
5) VERIFY ROUGH OPNG'S, SPECS. FOR CODE REQUIREMENTS WITH WINDOW MANUF.
6) SD = SMOKE DETECTOR

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WAGONER HOMES
1508 GRIST MILL ROAD

DRAWN BY: **TUG**
DATE: **9-1-20**
FILE NAME: **WH-15-4991**

REVISIONS		
11-15-25	TUG	BLDG. HGT.
12-20-22	TUG	PLAN
1-15-24	TUG	PLAN
11-3-25	TUG	R. PORCH

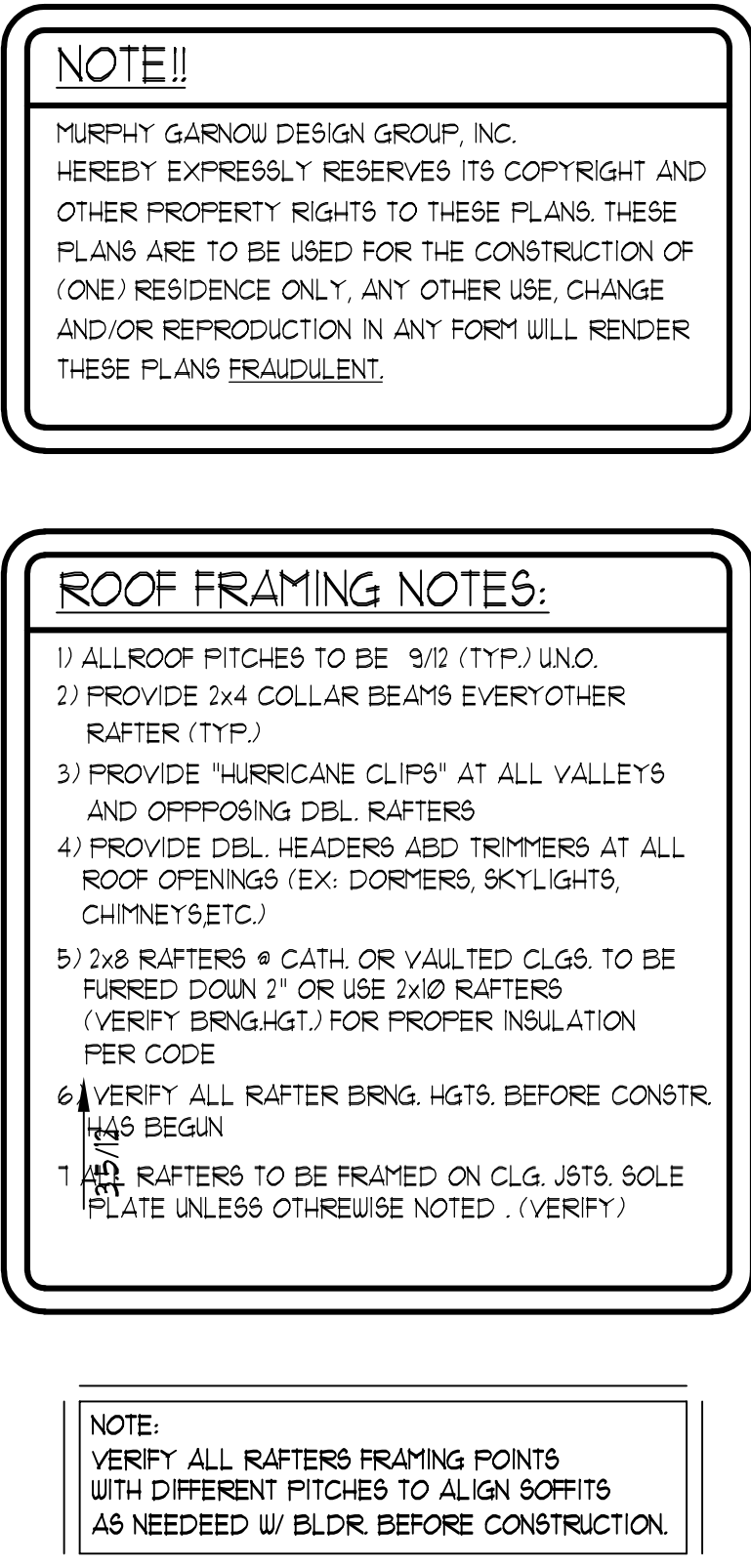
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HOUSE NUMBER:

PAGE NUMBER:
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SECOND FLOOR PLAN
SCALE: -----1/4" = 1'-0"
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WAGONER HOMES
7508 GRIST MILL ROAD

DRAWN BY: TWG
DATE: 9-1-20
FILE NAME: WH-15-4991

REVISIONS	
11-13-25	TWG BLDG. HG.
12-20-22	TWG PLAN
1-19-24	TWG PLAN
11-3-25	TWG R. PORCH

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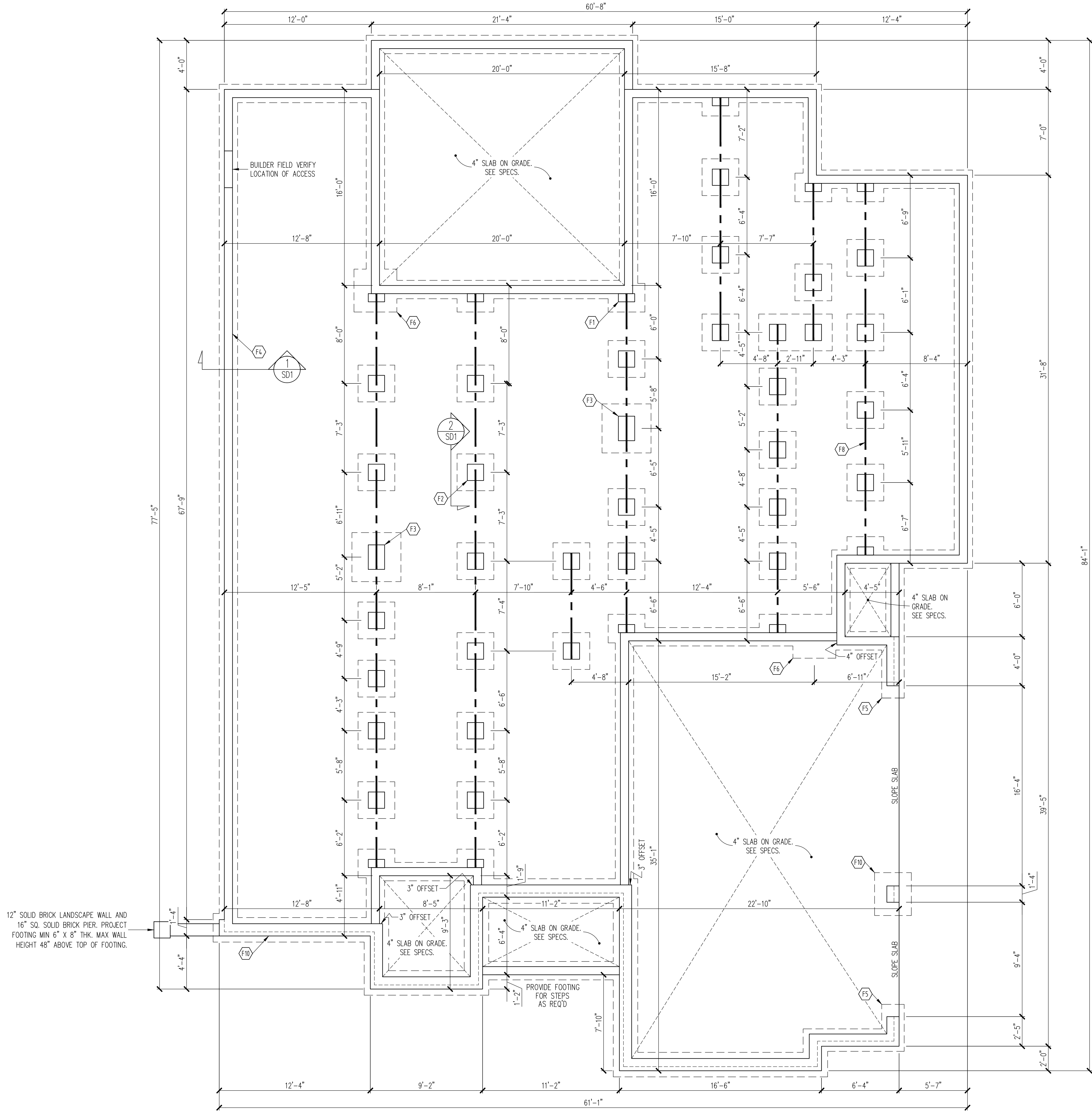
PAGE NUMBER:

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ROOF FRAMING PLAN

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

THESE PLANS MEET THE REQUIREMENTS OF THE
INTERNATIONAL RESIDENTIAL CODE '2015' AND THE
NORTH CAROLINA RESIDENTIAL CODE '2018' EDITION.



CONSTRUCTION SPECIFICATIONS
INSTANT REFERENCES

REFER TO THE CONSTRUCTION SPECIFICATIONS
SECTIONS FOR THE FOLLOWING INFORMATION:

PART 1.01: CURRENT GOVERNING CODE

PART 14: STUD SUPPORT FOR BEAMS

PART 16.02: GENERAL WALL BRACING NOTES

PART 17: KING STUDS FOR EXTERIOR WALLS

SEE DETAIL / CONSTRUCTION SPECIFICATIONS
SHEETS FOR I-JOISTS ALLOWABLE SUBSTITUTIONS

FOUNDATION SCHEDULE

- F1 8" X 16" CMU PILASTER, PROJECT FOOTING
8" X 8" THICK, TYP UNO.
- F2 16" SQ. MASONRY PIER ON A 36" SQ. X 10"
THICK CONC FTG TYP UNO.
- F3 16" X 24" MASONRY PIER ON A 48" X 12"
THICK CONC FTG.
- F4 8" THICK MASONRY FND WALL ON A 18" X
8" THICK CONT POUR CONC FTG TYP UNO
- F5 PROJECT FOOTING 12" X 12" THICK AT
GARAGE OPENING
- F6 ENLARGE FOOTING TO 42" SQ. X 12" THICK
SOLID MASONRY ABOVE
- F7 COMMON FOOTING 72" X 36" X 12" THICK
- F8 DROPPED GIRDER: (4) 2X10'S, TYP UNO.
- F9 ENLARGE FOOTING TO 36" X 42" X 12" THICK
SOLID MASONRY ABOVE
- F10 12" THICK MASONRY FND WALL ON A
24" X 8" THICK CONT POUR CONC FTG,
TYP @ FOUNDATION WALLS W/ BRICK VENEER
ABOVE FLOOR LEVEL.

NOTES:

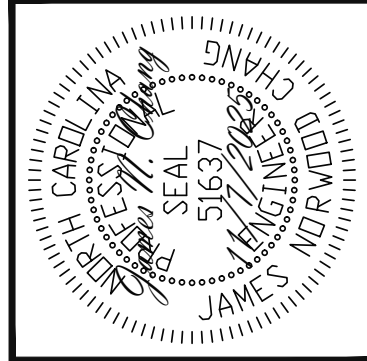
—HEIGHT AND BACKFILL LIMITATIONS FOR
FOUNDATION WALLS ARE TO BE GOVERNED
BY THE NCSSBC, LATEST EDITION.

—BUILDER TO FIELD LOCATE CRAWLSPACE
ACCESS OPENING WITH MINIMUM DIMENSIONS
OF 18X24. DO NOT LOCATE ACCESS OPENING
BELOW POINT LOADS FROM ABOVE WITHOUT
ENGINEER APPROVAL.

FOUNDATION PLAN

1/4" = 1'-0"

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Phone (919) 844-1661

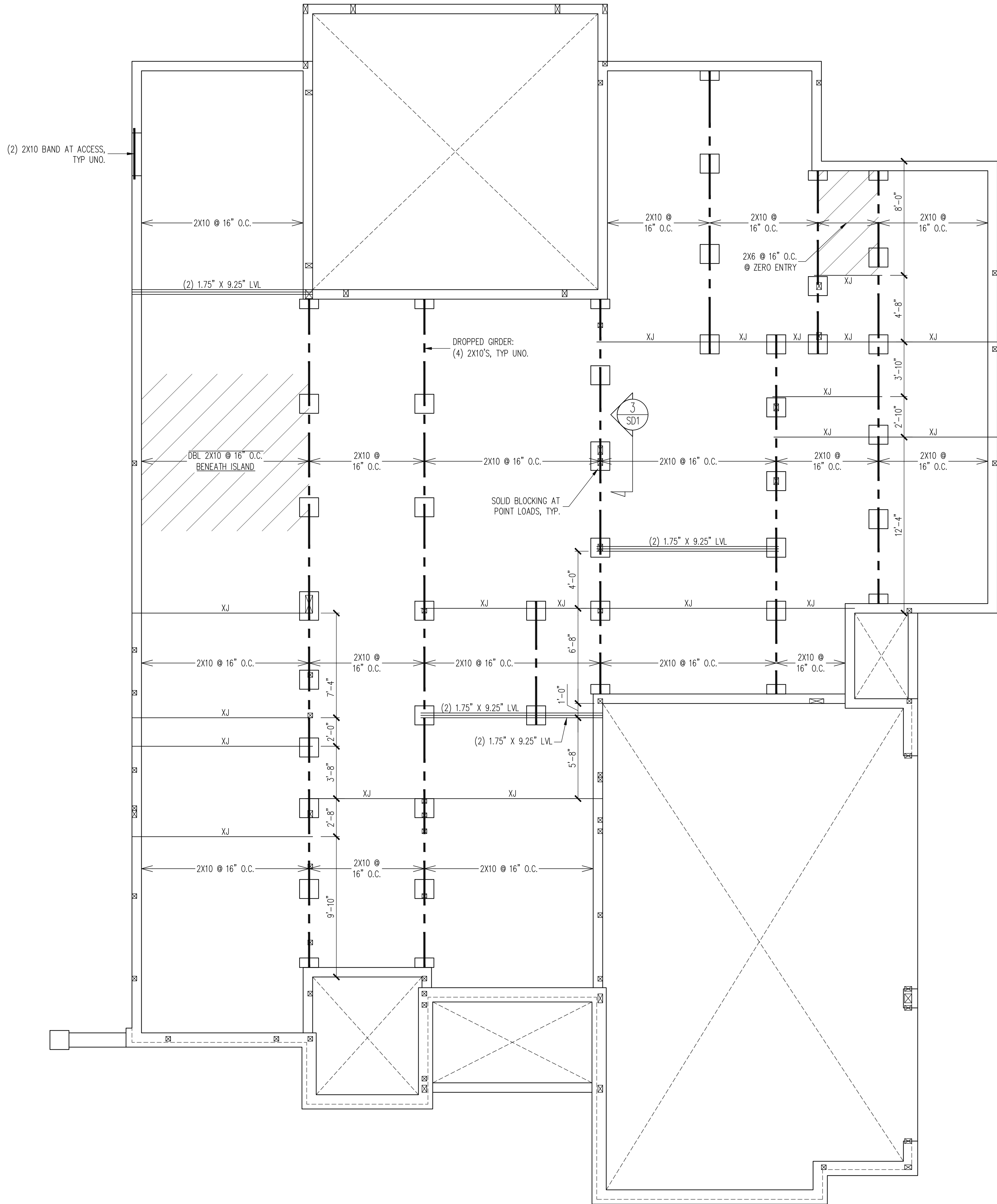
Engineering Tech Associates, P.A.

SCOPE	WAGONER HOMES, INC.		STRUCTURAL ADDENDUM	
	REV #	REF	PROJ #	DATE
LOC:	7508 GRIST MILL RD.			

ENG: JNC
DATE: 11/7/2025

PROJECT NO.
25-65-318

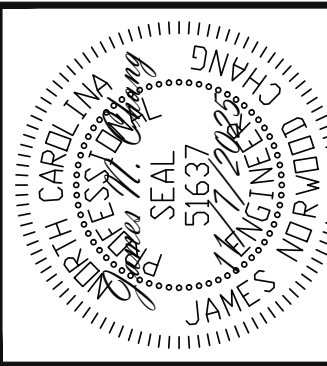
SHEET NO.
S1
1 of 6



CRAWLSPACE FRAMING PLAN

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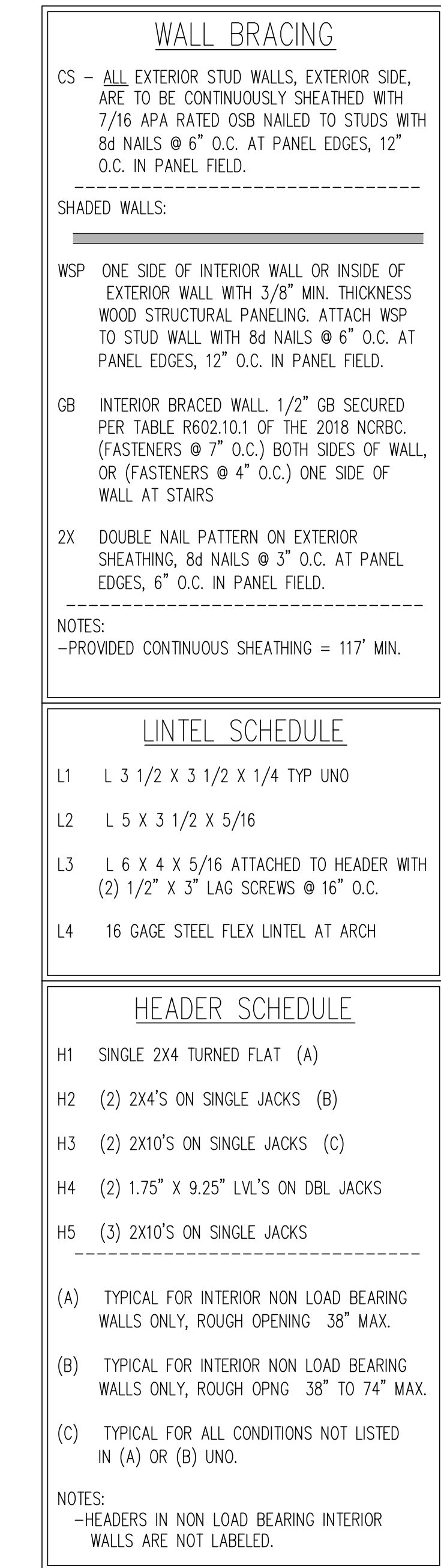
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SCOPE:	WAGONER HOMES, INC.		
	STRUCTURAL ADDENDUM		
LOC:	7508 GRIST MILL RD.		
	REV #	REF PROJ #	DATE

ENG: JNC
DATE: 11/7/2025

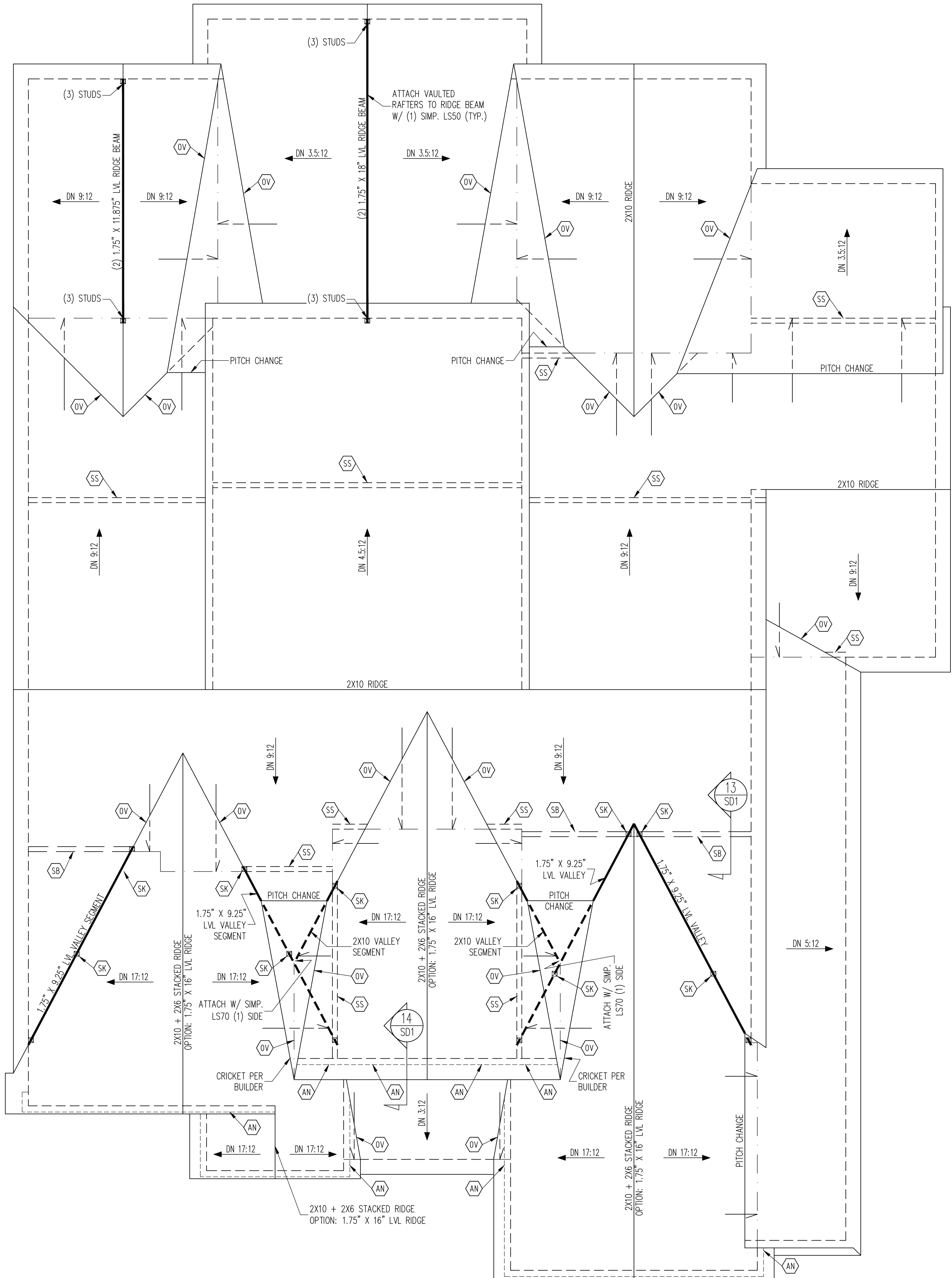
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25-65-318

SHEET NO.
S2
2 of 6



WALLS AND CEILING 1/4" = 1'-0"

4 of 6



FRAMING NOTES

- ROOF ONLY
- COMMON RAFTERS 2X8 @ 16" O.C. TYP U.N.O.
 - COLLAR TIES 2X4 EVERY 3RD SET OF RAFTERS TYP U.N.O.
 - VERIFY ROOF PITCHES, OVERHANG LENGTHS, AND KNEEWALL FRAMING HGTS WITH ARCHITECTURAL DRAWINGS, TYPICAL.

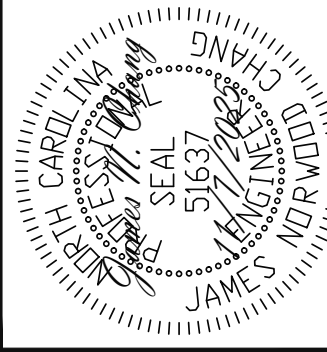
FRAMING SCHEDULE

- ROOF ONLY
- OV OVERFRAME VALLEY (2X10 SLEEPER)
- SK STIFF KNEE (DBL 2X4)
- SS SUPPORT/SPLICE RAFTERS ON KNEEWALL BELOW
- SB SUPPORT/SPLICE RAFTERS ON BEAM BELOW
- BR SUPPORT BRICK VENEER PER SECT 703.8.2 OF THE NCRC, LATEST EDITION
- AN SUPPORT BRICK VENEER WITH ANGLE ATTACHED TO MODIFIED STUD WALL
- DR DOUBLE RAFTER

ROOF FRAMING PLAN

1/4" = 1'-0"

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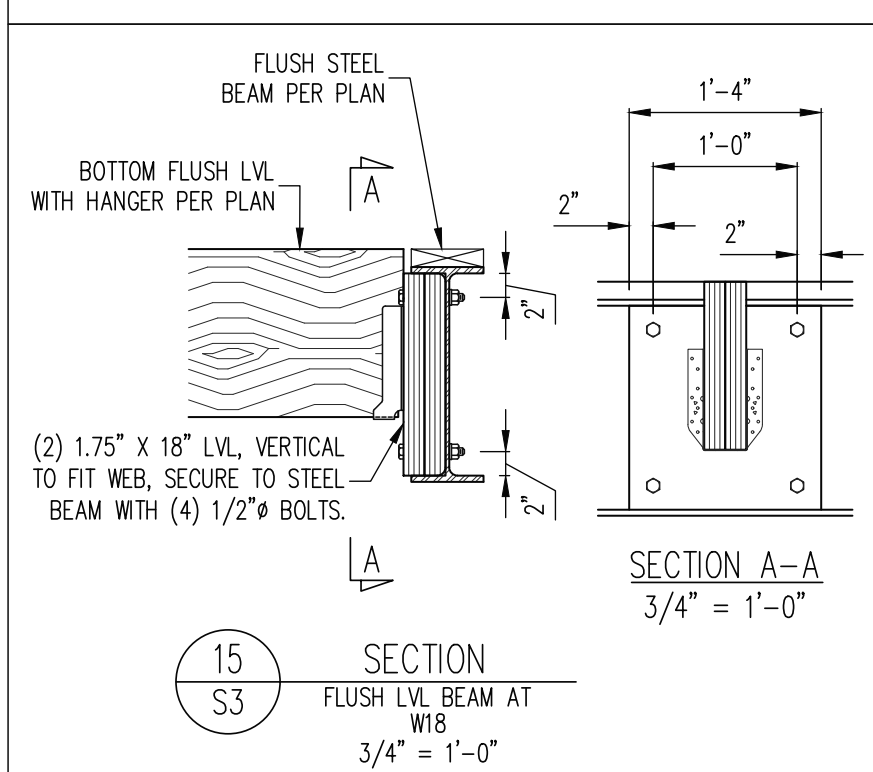
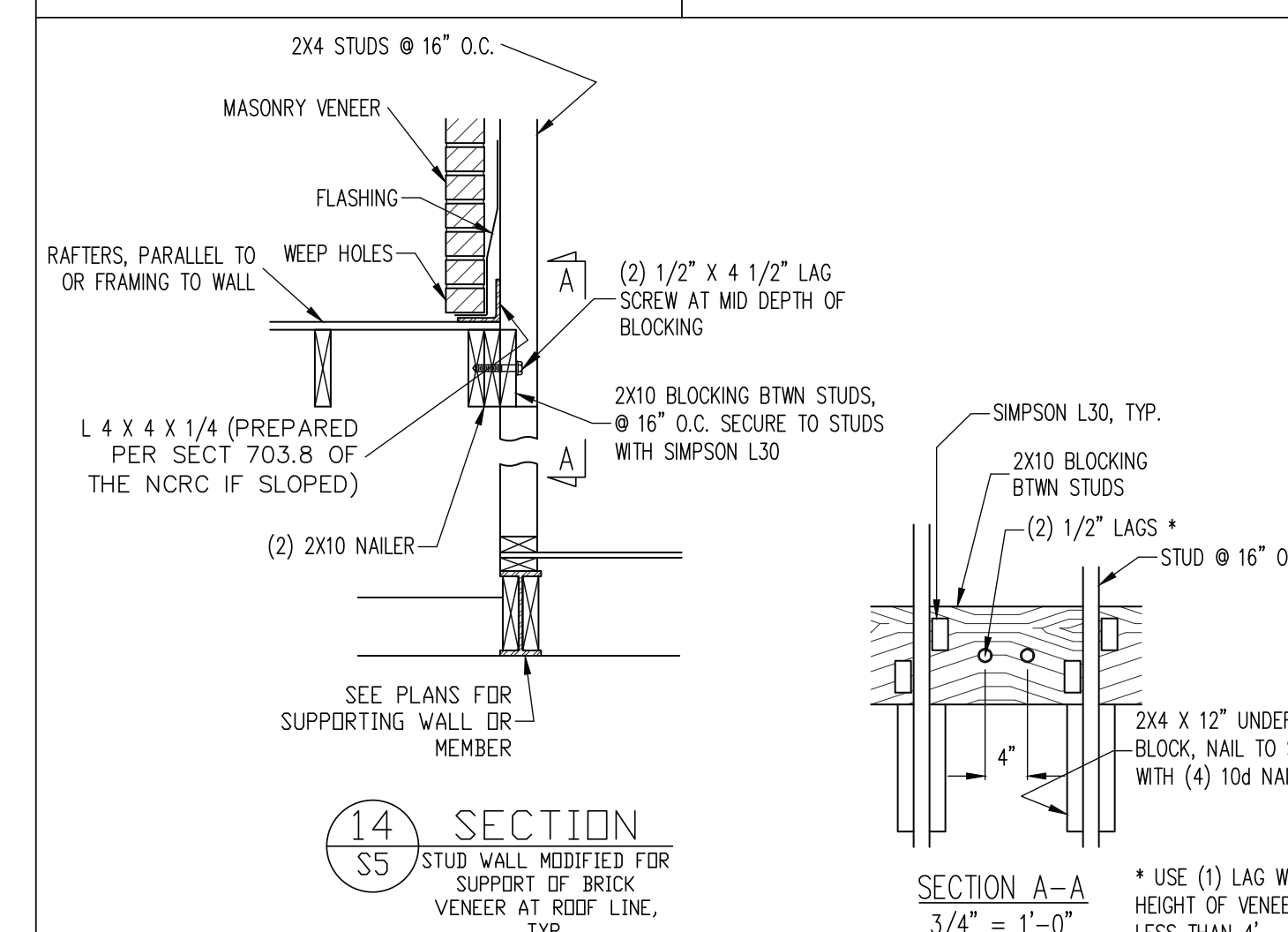
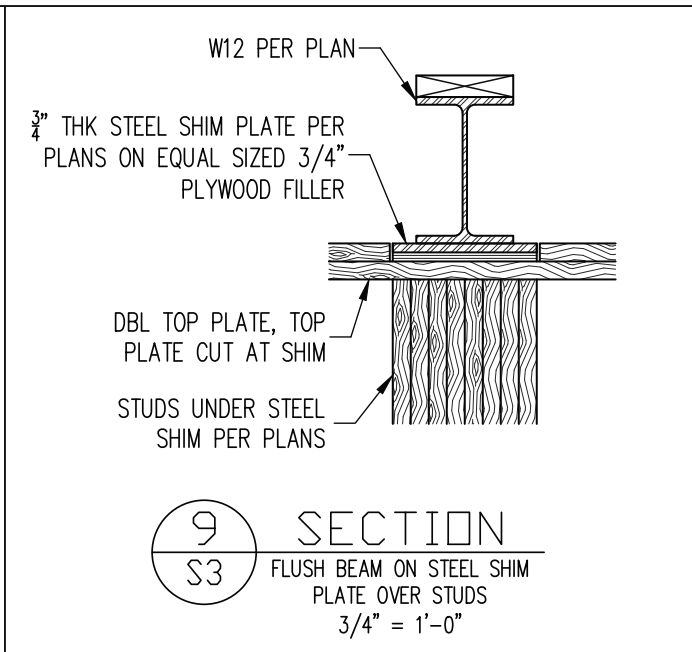
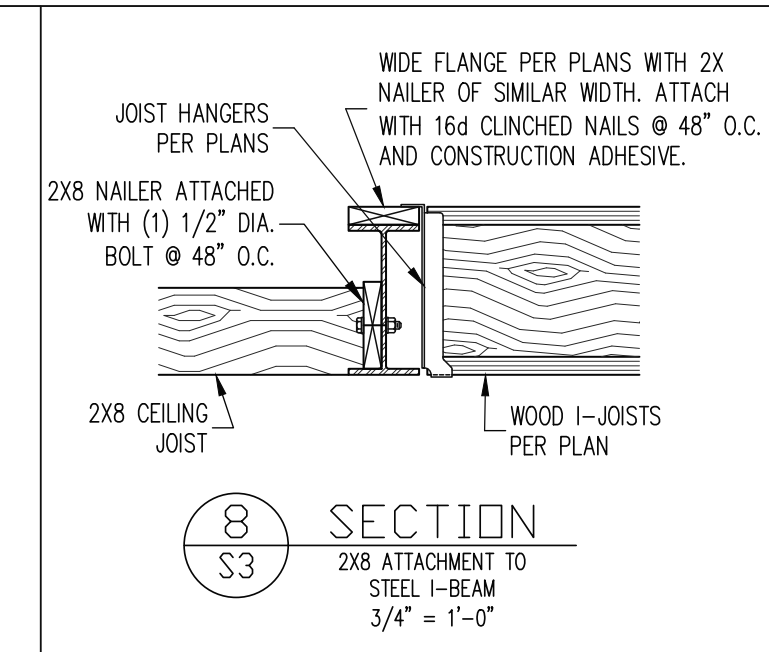
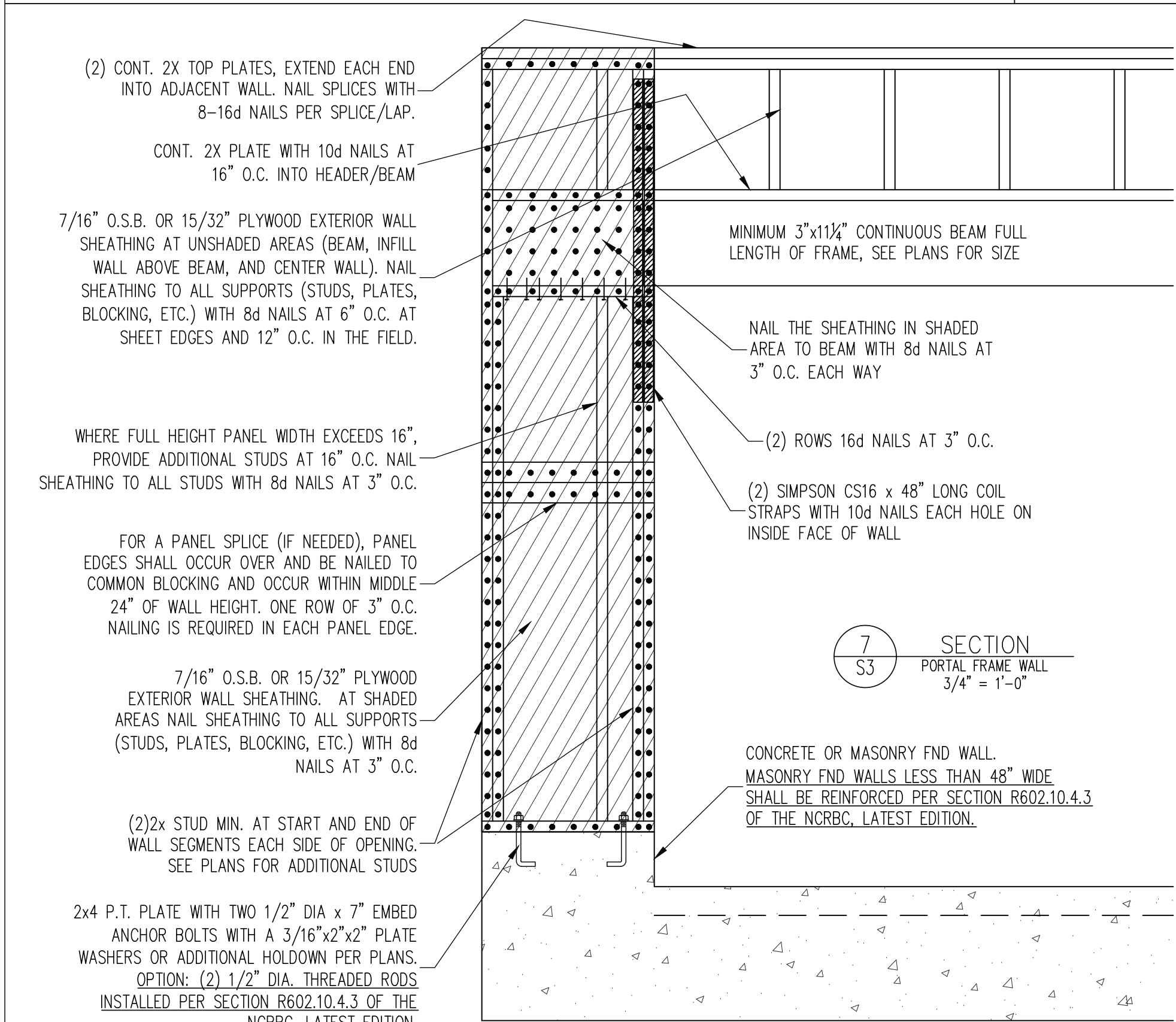
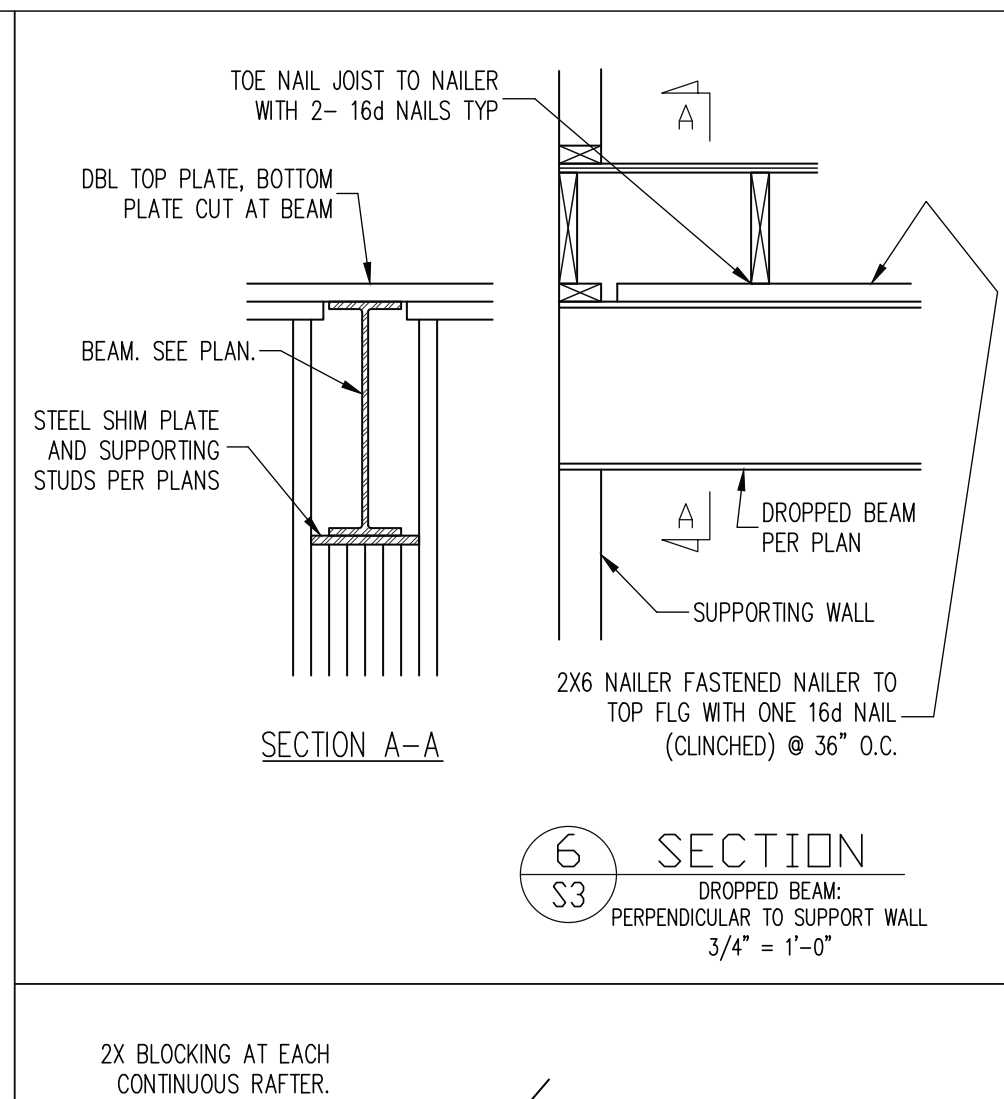
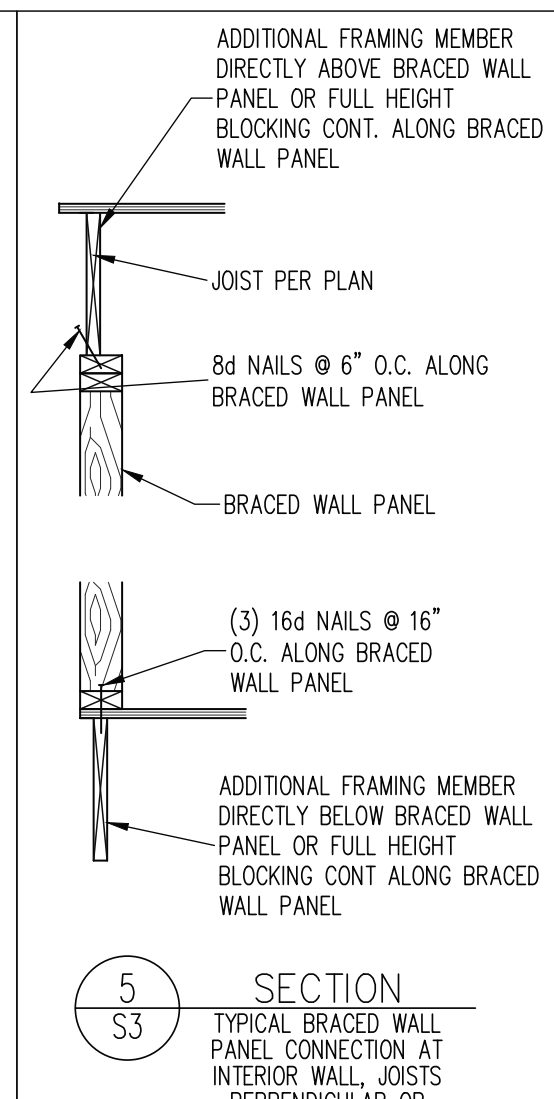
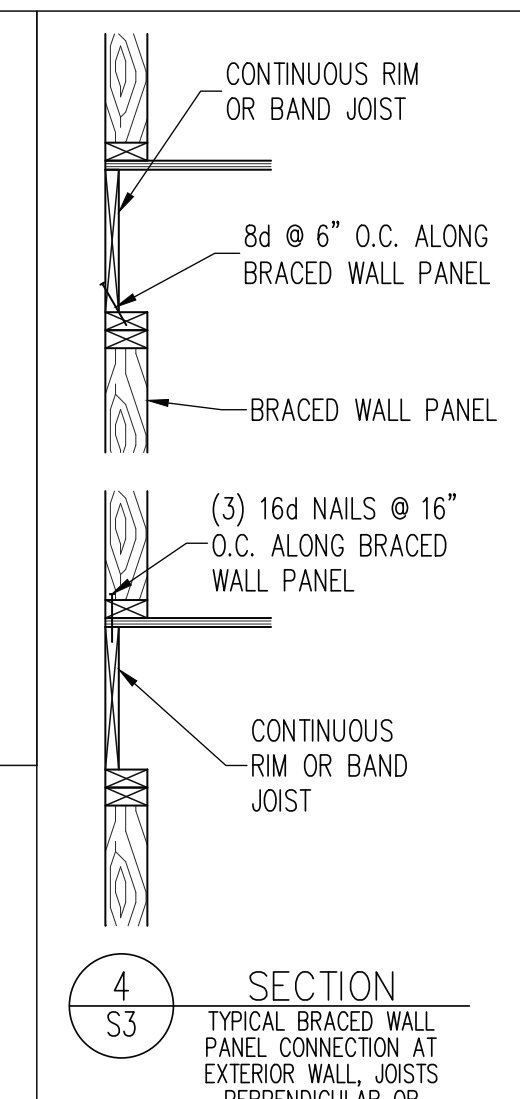
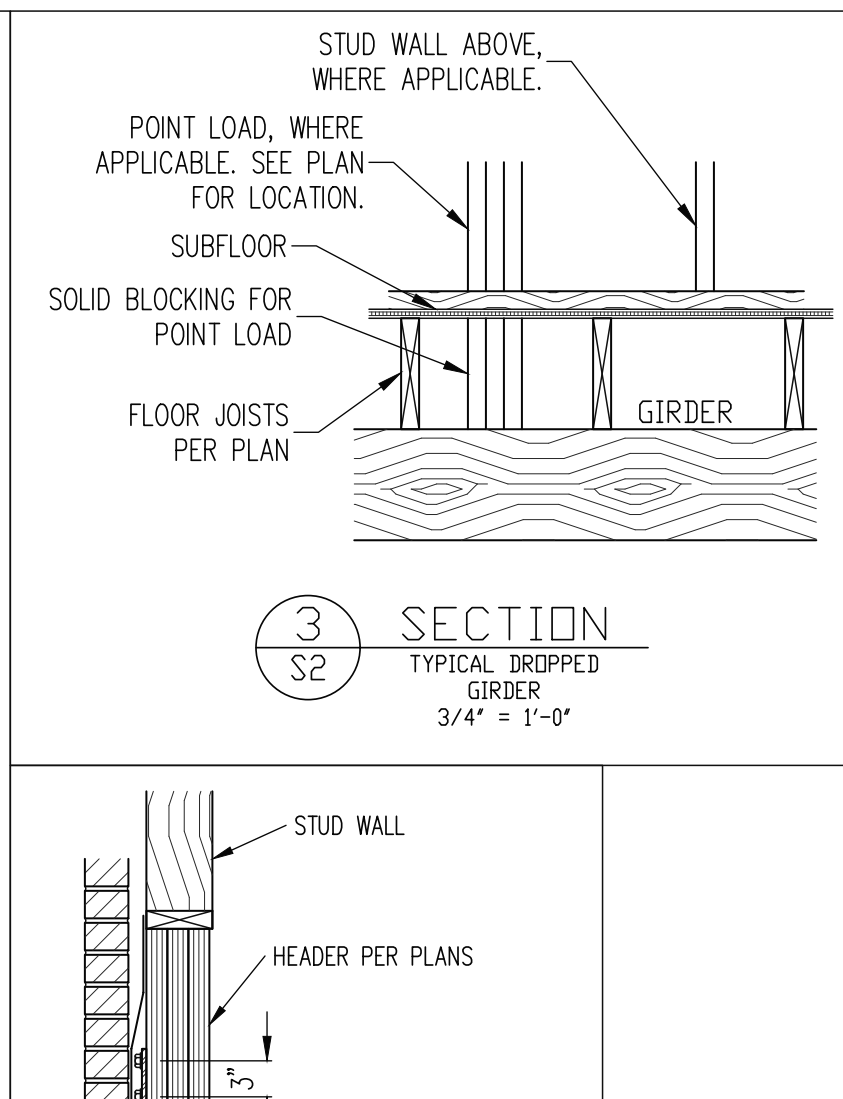
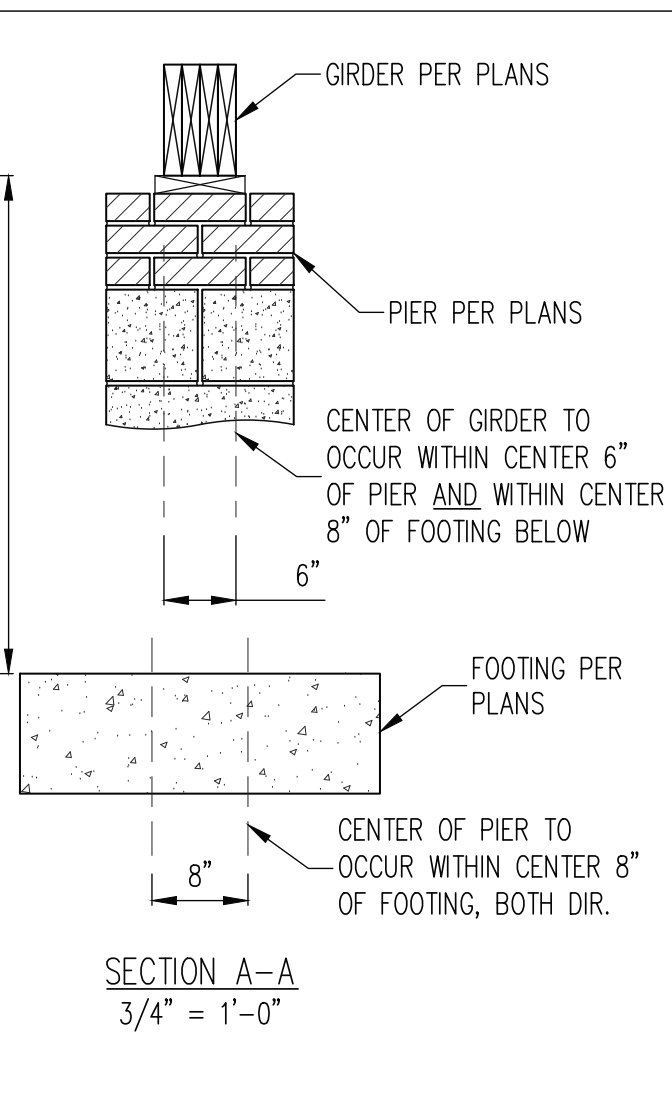
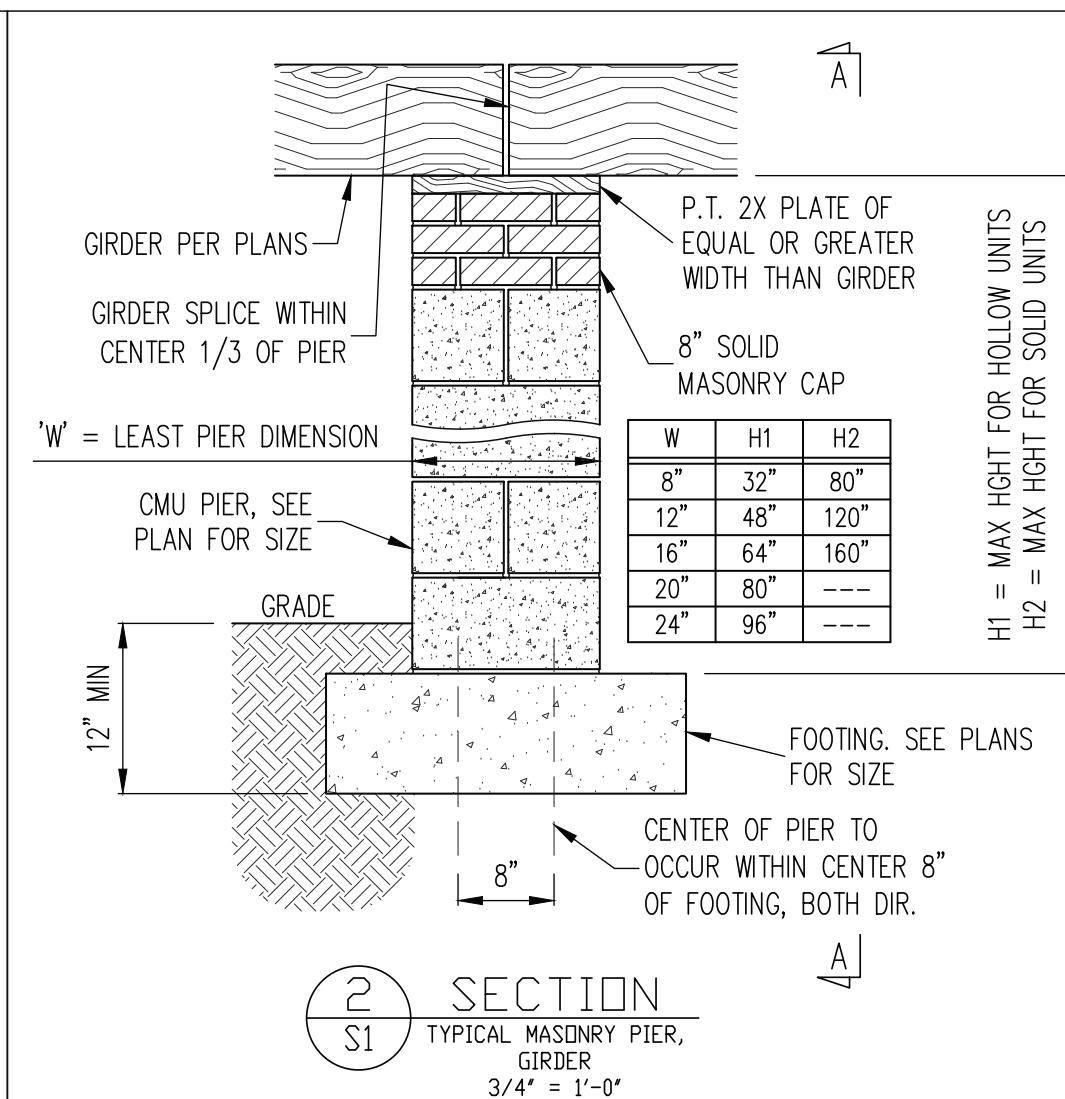
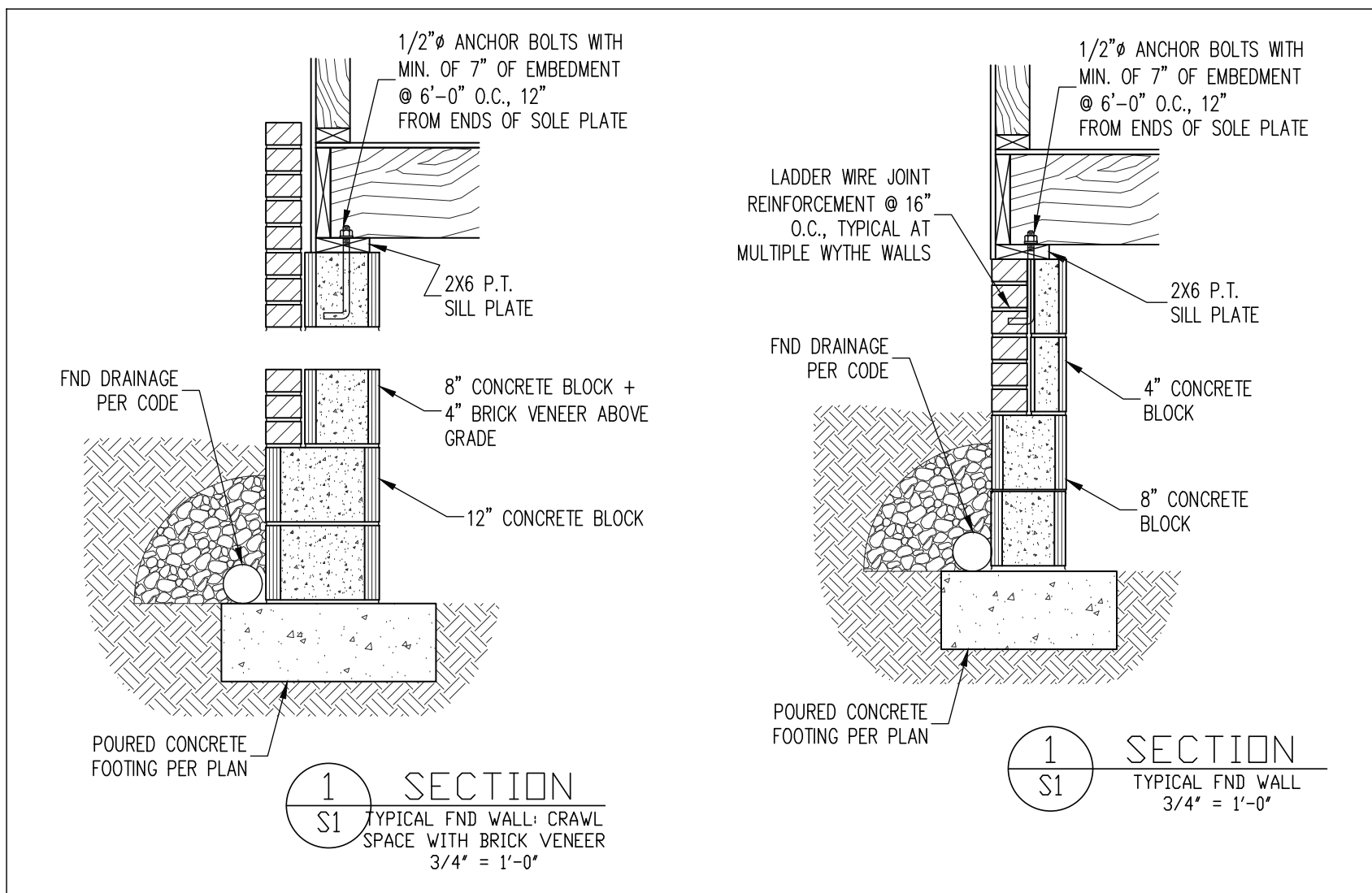
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Raleigh, North Carolina 27609
Phone (919) 844-1661

SCOPE:	WAGONER HOMES, INC.		
	STRUCTURAL ADDENDUM		
LOC:	REV #	REF PROJ #	DATE
	7508	GRIST MILL RD.	

ENG: JNC
DATE: 11/7/2025

PROJECT NO.
25-65-318

SHEET NO.
S5
5 of 6



MANUFACTURER	DEPTH	SERIES	SIMPSON FACE MOUNT HGR	SIMPSON TOP FLANGE HGR
BLUELINEX	14"	BLI 40	IUS2.56/14	ITS2.56/14
BOISE CASCADE	14"	BO 5000A	IUS2.06/14	ITS2.06/14
BOISE CASCADE	14"	BO 6000S	IUS2.37/14	ITS2.37/14
LP CORP	14"	LPI 20+	IUS2.56/14	ITS2.56/14
NORDIC	14"	NI 40X	IUS2.56/14	ITS2.56/14
ROSEBURG	14"	RFPI 40s	IUS2.56/14	ITS2.56/14
WEYERHAEUSER	14"	TJI 210	IUS2.06/14	ITS2.06/14
WEYERHAEUSER	14"	EEL-20	IUS2.37/14	ITS2.73/14
BLUELINEX	14"	BLI 80	IUS3.56/14	ITS3.56/14
LP CORP	14"	LPI 42+	IUS3.56/14	ITS3.56/14
NORDIC	14"	NI-80	IUS3.56/14	ITS3.56/14
ROSEBURG	14"	RFPI 80s	IUS3.56/14	ITS3.56/14
WEYERHAEUSER	14"	TJI 360	IUS2.37/14	ITS2.37/14
WEYERHAEUSER	14"	EEL-20	IUS3.56/14	ITS3.56/14

NOTES

THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION:

- 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR
- 2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION

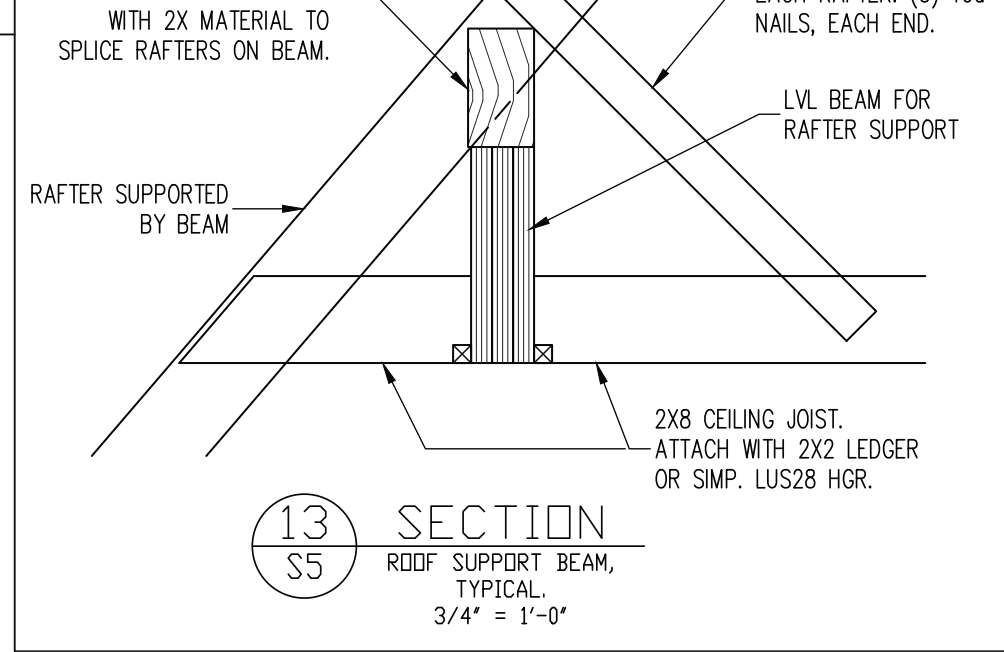
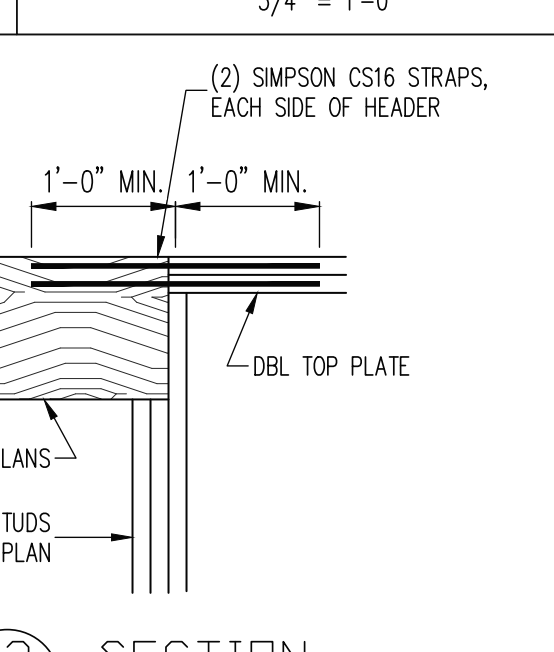
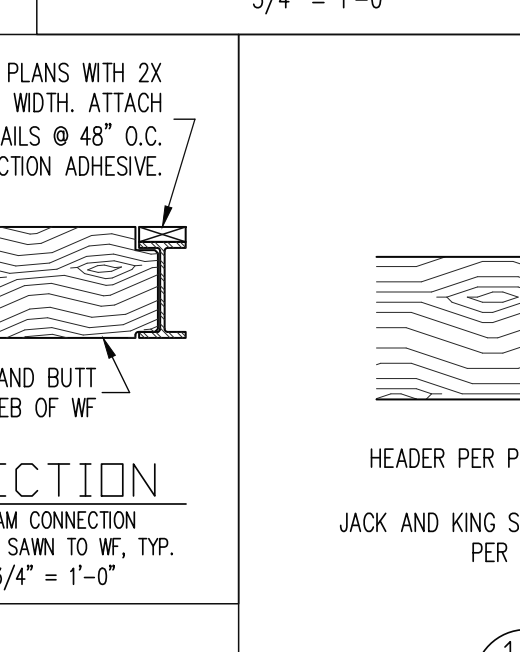
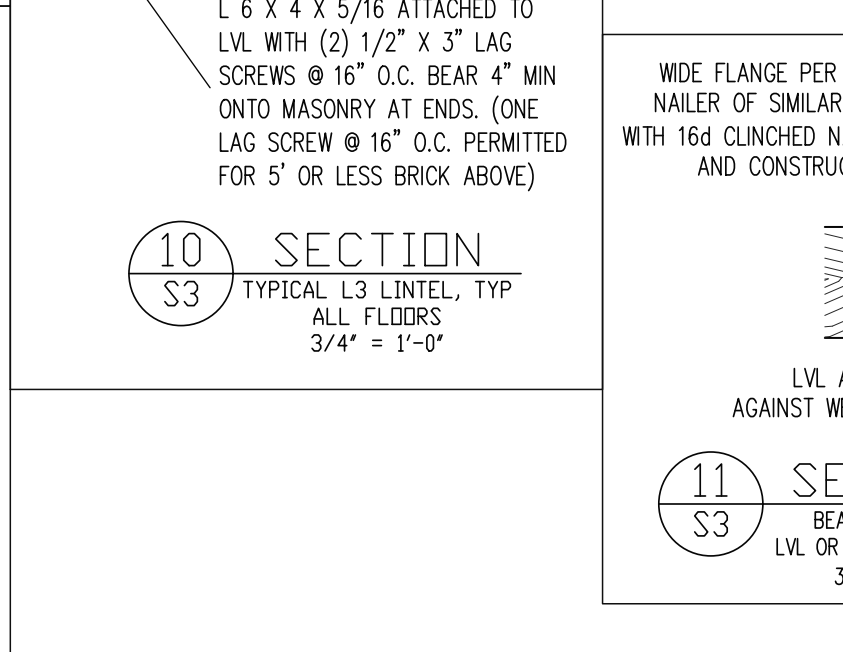
ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAT ANY REVISIONS ISSUED BY THE EOR ARE PROMPTLY DISTRIBUTED TO THE SUBCONTRACTORS

THE EOR DOES NOT PERFORM PENETRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING.

ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL TRUSS DRAWING SHOULD BE SUBMITTED TO THE EOR FOR REVIEW

ABBREVIATIONS

ABV ABOVE	FND FOUNDATION	TJ TRIPLE JOIST
B BOTH	FTG FOOTING	TRP TYPICAL
B.E. BOTH ENDS	HDG HOT DIPPED	TRPL TRIPLE
BTWN BETWEEN	HAN HANGER	TSP TRIPLE STUD POCKET
C-IP CAST IN PLACE	LVL LAMINATED VENEER	UNO UNLESS NOTED OTHERWISE
CMNC CONCRETE	LUM LUMBER	XJ EXTRA JOIST
CS CONTINUOUS SHEATHING	LUM LUMBER	
DBL DIAMETER	NTS NOT TO SCALE	
DJ DOUBLE JOIST	O.C. ON CENTER	
DSP DBL STUD POCKET	PSL PARALLEL STRAND LUMBER	
EA EACH	PT PRESSURE TREATED	
FLC FLANGE	QU QUAD JOIST	
FL PL FLUTCH PLATE	SP SPACE (OR SPACING)	
FLR FLOOR	SPP SINGLE STUD POCKET	
	SQ SQUARE	



CONSTRUCTION SPECIFICATIONS

- PART 1: GENERAL**
- CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
 - DIMENSIONS SHOWN SHALL GOVERN OVER SCALE ON THESE DRAWINGS.
 - METHODS, PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.
- PART 2: DESIGN LOADS**
- DESIGN LOADS SHALL CONFORM WITH THE TABLE BELOW:
- | USE | LIVE LOAD (PSF) | DEAD LOAD (PSF) |
|---|-----------------|--------------------|
| BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS, DWELLING UNITS INCLUDING ATTICS WITH FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES | 40 | 10 |
| GARAGES (PASSENGER CARS ONLY) | 50 | -- |
| ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) | 10 | 10 |
| ATTICS (WITH STORAGE) | 20 | 10 |
| ROOF | 20 | 10 (15 FOR VAULTS) |
- NOTES: - INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED LIVE LOAD OF 40 PSF OR A 300 LB. CONCENTRATED LOAD ACTING OVER AN AREA OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS.
- BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS.
- INTERIOR WALLS: 5 PSF LATERAL.
 - BASIC WIND DESIGN VELOCITY OF 120 MPH.
 - SOIL BEARING CAPACITY 2000 PSF (PRESUMPTIVE).
- PART 3: STRUCTURAL STEEL**
- WIDE FLANGE BEAMS AND TEE SECTIONS SHALL CONFORM TO ASTM A992 MINIMUM GRADE.
 - SQUARE AND RECTANGULAR TUBING SHALL CONFORM TO ASTM A500 GRADE B MINIMUM GRADE.
 - STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE.
 - ALL OTHER STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 MINIMUM GRADE.
 - STRUCTURAL STEEL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- PART 4: WELDING**
- WELDING ELECTRODES SHALL BE E70XX AND ALL WELDING SHALL BE PERFORMED BY AN AWS CERTIFIED WELDER.
- PART 5: CONCRETE AND SLABS ON GRADE**
- CAST IN PLACE CONCRETE SHALL BE OF NORMAL WEIGHT, 4-6% AIR ENTRAINMENT, FOR EXTERIOR CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP. ALL ITEMS NOTED AS "CONCRETE" ARE TO BE CAST IN PLACE, TYP. UNO.
 - REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN ACCORDANCE WITH THE SPECIFICATIONS OF ACI 318, LATEST EDITION.
 - SLABS ON GRADE, IF ANY, SHALL BE CAST IN PLACE, CONTAIN SYNTHETIC POLYPROPYLENE FIBRILLATED MICRO FIBERS, FIBER LENGTH 1 1/2", DOSAGE RATE 1 1/2 LBS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 4" MIN GRANULAR FILL ON SOIL WITH 90% MIN STANDARD PROCTOR DENSITY. VAPOR BARRIER MAY BE OMITTED FOR SLABS NOT IN ENCLOSED AREAS.
- PART 6: REBAR AND WIRE REINFORCEMENT**
- REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60 TYP UNO
 - LAP SPLICES SHALL BE CLASS B AS DEFINED BY ACI 318, TYP UNO
 - WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.
- PART 7: MASONRY**
- CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT,
- PART 8: REBAR AND WIRE REINFORCEMENT**
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- PART 10: DIMENSIONAL LUMBER**
- SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR OR SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC. MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS:
 $E = 1,400,000 \text{ PSI}$, $F_t \text{ spp} = 425 \text{ PSI}$, $F_v = 135 \text{ PSI}$, SPECIFIC GRAVITY = 0.42 MIN
 $F_b = 875 \text{ PSI}$ FOR 2X4, 2X6, 2X8, $F_b = 800 \text{ PSI}$ FOR 2X10'S, 750 PSI FOR 2X12'S
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- PART 12: PRESSURE TREATED LUMBER**
- LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AMPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AMPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A).
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1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM

2-BEAMS BEARING ONTO THE END OF A STUD WALL PERPENDICULAR TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO.

14.03 CLAY MASONRY UNITS SHALL CONFORM TO ASTM C62-17 GRADE SW

7.04 MORTAR SHALL BE TYPE S. MORTAR AND GROUT SHALL CONFORM TO ASTM C476, MIN COMPRESSIVE STRENGTH OF 2000 PSI.

7.04 MASONRY CONSTRUCTION SHALL CONFORM TO THE SPECIFICATIONS OF ACI 530

7.05 LADDER WIRE REINFORCEMENT SHALL CONFORM TO ASTM A951. 6" MIN LAPS FOR CONTINUOUS WALL APPLICATIONS

PART 8: BOLTS AND LAG SCREWS

 - BOLTS SHALL CONFORM TO ASTM A307 MINIMUM GRADE TYP UNO. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR THE NUT / BOLT HEAD WHEN BOLTING WOOD MEMBERS. HOLES FOR BOLTS SHALL BE AISC STANDARD HOLES UNO
 - LAG SCREWS SHALL CONFORM TO ANSI/ASME STANDARD B18.2.1-1981. PILOT HOLES SHALL BE USED FOR LAG SCREW INSTALLATION AND SHALL BE BORED ACCORDING TO NOS SPECIFICATIONS. INSTALL STANDARD STEEL WASHERS (ASTM F844-07a) FOR SCREW HEAD
 - ANCHOR RODS AND BOLTS SHALL CONFORM TO ASTM F1554-15 GRADE 36 UNO. BENT ANCHOR BOLTS SHALL HAVE A 2" MIN HOOK UNO

PART 9: DRIVEN FASTENERS

 - NAILS, SPIKES AND STAPLES SHALL CONFORM TO ASTM F 1667-05. NAILS ARE TO BE COMMON WIRE OR BOX

PART 10: DIMENSIONAL LUMBER

 - SOLID SAWN WOOD FRAMING DESIGN IS BASED ON NO. 2 SPRUCE PINE FIR OR SYP #2 FOR JOISTS, RAFTERS, GIRDERS, BEAMS, STUDS, ETC. MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS:
 $E = 1,400,000 \text{ PSI}$, $F_t \text{ spp} = 425 \text{ PSI}$, $F_v = 135 \text{ PSI}$, SPECIFIC GRAVITY = 0.42 MIN
 $F_b = 875 \text{ PSI}$ FOR 2X4, 2X6, 2X8, $F_b = 800 \text{ PSI}$ FOR 2X10'S, 750 PSI FOR 2X12'S

PART 11: ENGINEERED LUMBER

 - LVL OR PSL MINIMUM ALLOWABLE DESIGN PROPERTIES ARE AS FOLLOWS:
 $E = 1,900,000 \text{ PSI}$, $F_t = 2600 \text{ PSI}$, $F_v = 285 \text{ PSI}$
 $E = 1.3 \times 10^6 \text{ PSI}$, $F_t = 1700 \text{ PSI}$, $F_v = 400 \text{ PSI}$, $F_c \text{ spp} = 680 \text{ PSI}$

PART 12: PRESSURE TREATED LUMBER

 - LUMBER IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AMPA STANDARD C-15. ALL OTHER EXPOSED LUMBER SHALL BE TREATED IN ACCORDANCE WITH AMPA STANDARD C-2 OR BY ANY METHOD GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A).

PART 13: STEEL FLUTCH PLATE BEAMS

 - FLUTCH PLATE BEAMS SHALL CONSIST OF A CONTINUOUS STEEL PLATE BOLTED BETWEEN TWO PIECES OF CONTINUOUS LUMBER AS SIZED ON THE PLANS. BOLT PICES TOGETHER USING 1/2" * BOLTS SPACED AT 16" O.C. STAGGERED TOP TO BOTTOM OF THE BEAM. MAINTAIN A 2" EDGE DISTANCE. PLACE TWO BOLTS, ONE ABOVE THE OTHER, 16" MAX FROM EACH END OF THE BEAM. TYP UNO.

PART 14: STUD SUPPORTS FOR BEAMS

 - STEEL, ENGINEERED LUMBER, AND FLUTCH PLATE BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:

1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED AND SHALL BE SUPPORTED BY A MINIMUM OF THREE GANGED STUDS, OR A GANGED STUD COLUMN WITH A NUMBER GIVING EQUAL PROTECTION. THE BUILDING CODE OFFICE MAY ALSO APPROVE A NATURAL DECAY RESISTANT WOOD PER SECTION 19-6(A).

2-BEAMS BEARING ONTO THE END OF A STUD WALL PERPENDICULAR TO THE BEAM SHALL BEAR A MINIMUM OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GANGED COLUMN TYP UNO.

14.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BEAR AS FOLLOWS:

1-WHEN THE BEAM IS PERPENDICULAR TO, OR SKEWED RELATIVE TO THE WALL, THE BEAM SHALL BEAR FULL WIDTH ON THE SUPPORTING WALL INDICATED (LESS 1 1/2" TO ALLOW FOR A CONTINUOUS RIM JOIST WHERE APPLICABLE) AND SHALL BE SUPPORTED BY A GANGED STUD COLUMN THE SAME WIDTH AS THE BEAM TYP UNO. (E.G. A TRIPLE 2X10 IS TO BE SUPPORTED BY (3) STUDS). FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO ENSURE STUD COLUMN IS CENTERED ON THE BEAM

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PART 8: BOLTS AND LAG SCRE