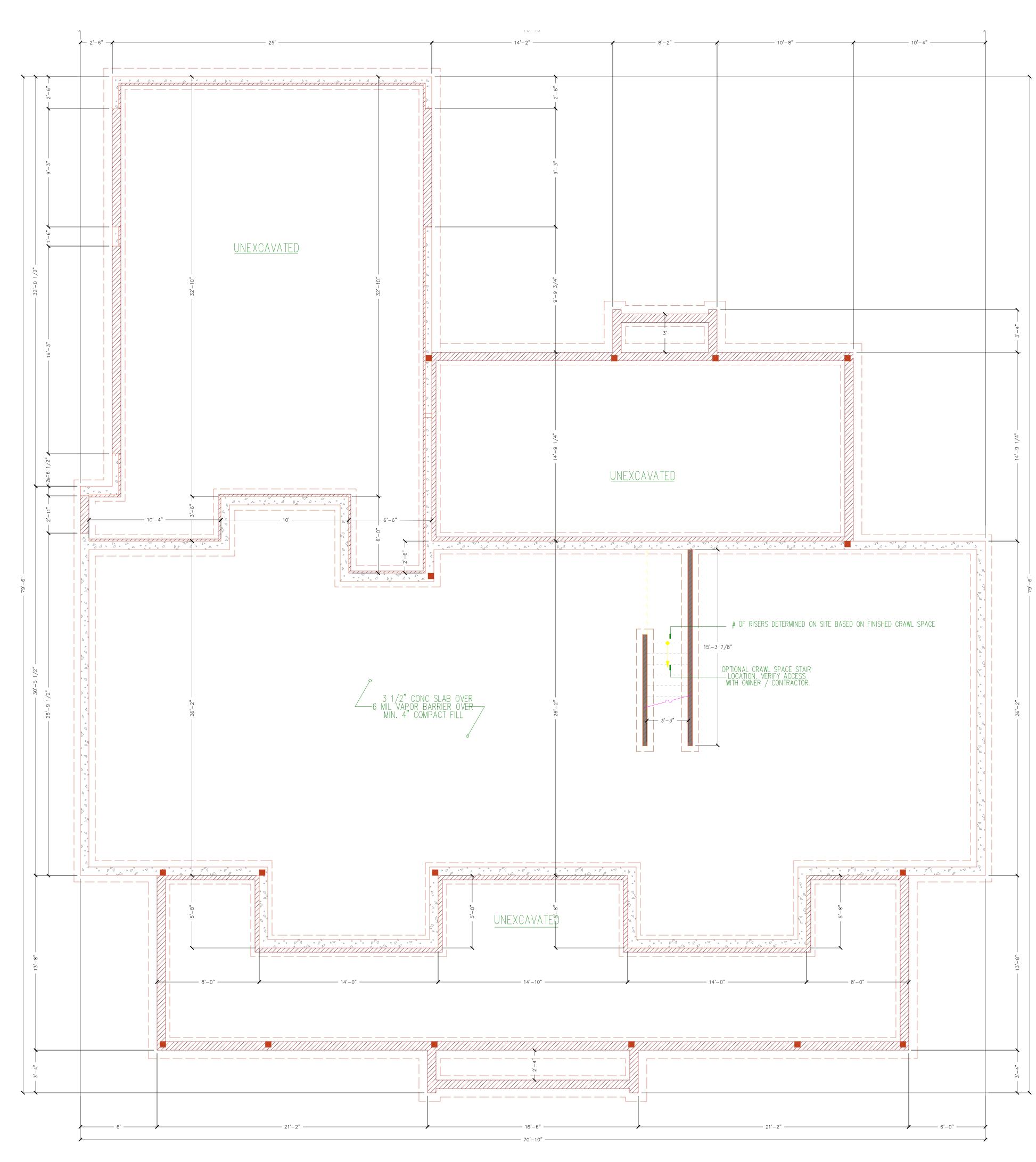


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GENERAL NOTES

- ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALING OF DRAWINGS – DIMENSIONS ARE FROM EXTERIOR FACE OF

- DIMENSIONS ARE FROM EXTERIOR FACE OF CONCRETE FOUNDATION WALLS AND CENTERLINE OF INTERIOR BEARING WALLS, POSTS AND BEAMS.
 FOUNDATION CONTRACTOR TO VERIFY ALL ROUGH-IN PLUMBING LOCATIONS AND ANY OTHER PENETRATIONS THRU CONCRETE FLOOR PRIOR TO CONSTRUCTION.
 BUILDER/FOUNDATION CONTRACTOR TO VERIFY FOOTING SIZE AND REINFORCEMENT REQUIREMENTS BASED ON
- SIZE AND REINFORCEMENT REQUIREMENTS BASED ON EXISTING SOIL CONDITIONS PRIOR TO CONSTRUCTION. WHILE EVERY EFFORT HAS BEEN MADE TO INSURE
- THESE PLANS ARE ACCURATE AND COMPLETE, THE

- THESE PLANS ARE ACCURATE AND COMPLETE, THE OWNER/BUILDER MUST VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, SITE CONDITIONS AND SPECIFICATIONS AND BE RESPONSIBLE FOR SAME. ANY NOTATIONS OF SIZES OF STRUCTURAL MEMBERS SUCH AS FOOTINGS, FOUNDATION SIZING, POSTS, BEAMS, JOISTS, RAFTERS, TRUSSES, ETC. THAT APPEAR ON THESE PLANS ARE FOR DESIGN REVIEW AND BIDDING PURPOSES ONLY. IT IS RECOMMENDED A PROFESSIONAL ENGINEER BE ENGAGED TO CALCULATE AND DESIGN ALL STRUCTURAL COMPONENTS INVOLVED IN THIS STRUCTURE.

<u>Floor system</u>

- ENGINEERED WOOD FLOOR TRUSSES
 DESIGNED TO MIN. L/480 DEFLECTION OF LESS
 TRUSS MANUFACTURER TO PROVIDE CHASES FOR

- IKUSS MANUFACIURER TO PROVIDE CHASES FOR ALL SUPPLY AND RETURN DUCTWORK
 TRUSS MANUFACTURER TO VERIFY FRAMING AT CANTILEVERS FOR POINT LOADS FROM ABOVE
 TRUSS MANUFACTURER TO VERIFY LOCATIONS OF ANY CONCENTRATED LOADS, SUCH AS GRANITE COUNTERTOPS, AND PROVIDE PROPER FRAMING AS NEEDED

<u>FRAMING</u>

- 4' 10" CRAWLSPACE ROUGH CEILING HEIGHT – PROVIDE SOLID BLOCKING AT ALL POINT LOADS
- INDICATES BEARING POINT LOAD PROVIDE CONTINUOUS SOLID BLOCKING TO FOUNDATION BELOW – VERIFY LOADS W/ LOCAL STRUCTURAL ENGINEER

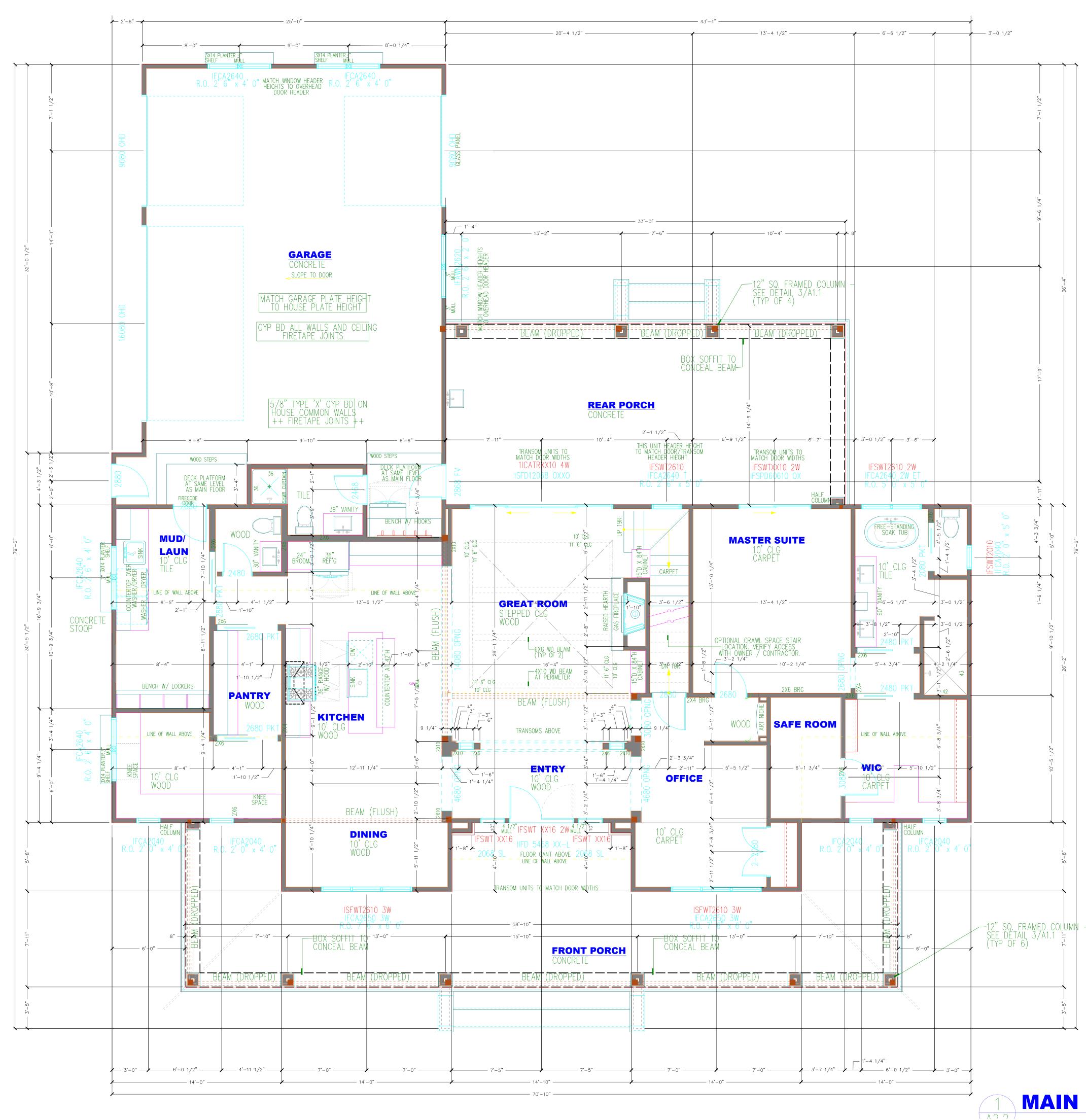
<u>+++ STRUCTURAL NOTICE</u> +++ ALL STRUCTURAL BEAM AND HEADER SIZES, BEARING CONDITIONS AND ANCHORING REQUIREMENTS MUST BE REVIEWED BY A STRUCTURAL ENGINEER BASED ON EXISTING SITE CONDITIONS. OWNER/BUILDER TO ASSUME ALL RESPONSIBILITY FOR ENTIRE STRUCTURE.

++ FOUNDATION ENGINEERING ++ ALL BUILDING FOUNDATION, FOOTING SIZES AND REINFORCING, INCLUDING POST FOOTINGS, TO BE DESIGNED ON SITE BY LOCAL ENGINEER OR FOUNDATION CONTRACTOR BASED ON EXISTING SITE CONDITIONS.

++ FOOTING FROST DEPTH: ++ OWNER/CONTRACTOR TO ADJUST DEPTH OF ALL HOUSE, GARAGE, SLAB AND DECK POST FOOTINGS TO MEET LOCAL CODES.

FOUNDATION PLAN

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- ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALING OF DRAWINGS

- DIMENSIONS ARE FROM EXTERIOR FACE OF EXTERIOR STUD WALLS AND CENTERLINE OF INTERIOR PARTITIONS
 WHILE EVERY EFFORT HAS BEEN MADE TO INSURE THESE PLANS ARE ACCURATE AND COMPLETE, THE OWNER/BUILDER MUST VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, SITE CONDITIONS AND SPECIFICATIONS AND BE RESPONSIBLE FOR SAME
- FOR SAM
- ANY NOTATIONS OF SIZES OF STRUCTURAL MEMBERS SUCH AS FOOTINGS, FOUNDATION SIZING, POSTS, BEAMS, JOISTS, RAFTERS, TRUSSES ETC. THAT APPEAR ON THESE PLANS ARE FOR DESIGN REVIEW AND BIDDING PURPOSES ONLY. IT IS RECOMMENDED A PROFESSIONAL ENGINEER BE ENGAGED TO CALCULATE AND DESIGN ALL STRUCTURAL COMPONENTS INVOLVED IN THIS STRUCTURE.

WINDOWS

 \rightarrow

- MARVIN INTEGRITY ALL ULTREX SERIES
 STYLE AND SIZE AS NOTED
 WINDOWS DESIGNATED WITH 'T' TO HAVE TEMPERED GLASS
 WINDOWS DESIGNATED WITH 'E' MEET EGRESS CODES
 WINDOW HEADER HEIGHTS SET TO 8' 11–3/8" (U.N.O.)
 BUILDER TO VERIFY WINDOW AND DOOR ROUGH OPENINGS

and header heights FLOOR SYSTEM

- ENGINEERED WOOD FLOOR TRUSSES
 DESIGNED TO MIN. L/480 DEFLECTION OR LESS
 TRUSS MANUFACTURER TO PROVIDE CHASES FOR ALL SUPPLY AND RETURN DUCTWORK
 TRUSS MANUFACTURER TO VERIFY FRAMING AT CANTILEVERS
- FOR POINT LOADS FROM ABOVE
 TRUSS MANUFACTURER TO VERIFY LOCATIONS OF ANY CONCENTRATED LOADS, SUCH AS GRANITE COUNTERTOPS, AND PROVIDE PROPER FRAMING AS NEEDED
- FRAMING

- 2x4 EXTERIOR WALL CONSTRUCTION
 10'1-1/8" PLATE HEIGHT (U.N.O.)
 2X6 WALLS AT ALL POCKET DOORS AND PLUMBING WALLS
 DOUBLE STUDS AT WINDOWS AND DOOR HEADERS
 PROVIDE SOLID BLOCKING AT ALL POINT LOADS
- INDICATES BEARING POINT LOAD
 PROVIDE CONTINUOUS SOLID BLOCKING TO FOUNDATION BELOW VERIFY LOADS W/ LOCAL STRUCTURAL ENGINEER

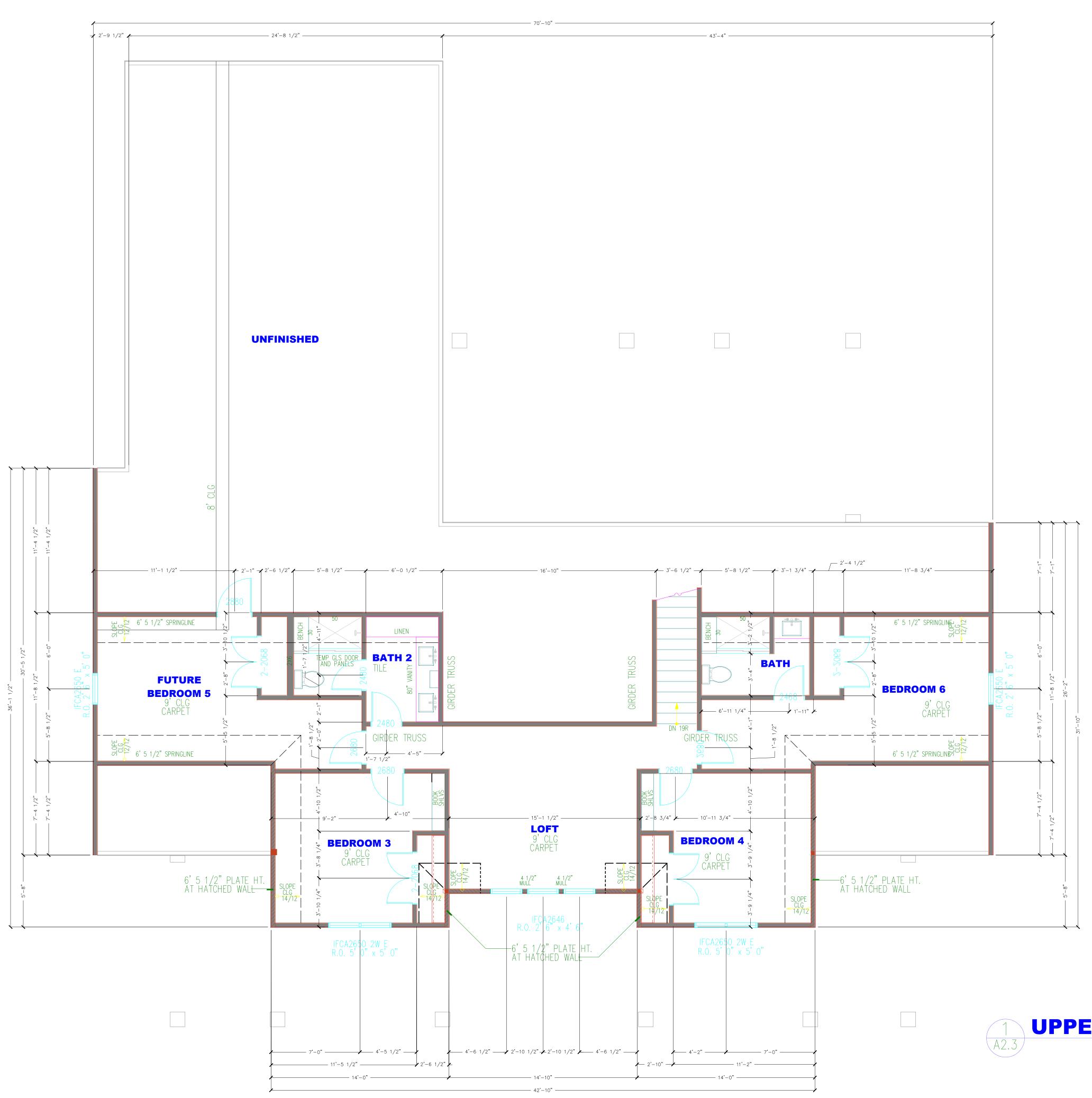
DOOR SCHEDULE SYMBOL 2468 REPRESENTS A 2'-4" WIDE x 6'-8" HIGH DOOR

+++ STRUCTURAL NOTICE +++ ALL STRUCTURAL BEAM AND HEADER SIZES, BEARING CONDITIONS AND ANCHORING REQUIREMENTS MUST BE REVIEWED BY A STRUCTURAL ENGINEER BASED ON EXISTING SITE CONDITIONS. OWNER/BUILDER TO ASSUME ALL RESPONSIBILITY FOR ENTIRE STRUCTURE.

- ++ FOUNDATION ENGINEERING ++ ALL BUILDING FOUNDATION, FOOTING SIZES AND REINFORCING, INCLUDING POST FOOTINGS, TO BE DESIGNED ON SITE BY LOCAL ENGINEER OR FOUNDATION CONTRACTOR BASED ON EXISTING SITE CONDITIONS.

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MAIN LEVEL FLOOR PLAN



GENERAL NOTES

- ALL WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALING OF DRAWINGS
- DIMENSIONS ARE FROM EXTERIOR FACE OF EXTERIOR STUD WALLS AND CENTERLINE OF INTERIOR PARTITIONS
 WHILE EVERY EFFORT HAS BEEN MADE TO INSURE THESE PLANS ARE ACCURATE AND COMPLETE, THE OWNER/BUILDER MUST VERIFY ALL DIMENSIONS, CONSTRUCTION METHODS, SITE CONDITIONS AND SPECIFICATIONS AND BE RESPONSIBLE FOR SAME
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 ANY NOTATIONS OF SIZES OF STRUCTURAL MEMBERS SUCH AS FOOTINGS, FOUNDATION SIZING, POSTS, BEAMS, JOISTS, RAFTERS, TRUSSES ETC. THAT APPEAR ON THESE PLANS ARE FOR DESIGN REVIEW AND BIDDING PURPOSES ONLY.
 IT IS RECOMMENDED A PROFESSIONAL ENGINEER BE ENGAGED TO CALCULATE AND DESIGN ALL STRUCTURAL COMPONENTS INVOLVED IN THIS STRUCTURE.

WINDOWS

- MARVIN INTEGRITY ALL ULTREX SERIES
 STYLE AND SIZE AS NOTED
 WINDOWS DESIGNATED WITH 'T' TO HAVE TEMPERED GLASS
 WINDOWS DESIGNATED WITH 'E' MEET EGRESS, CODES
 WINDOW HEADER HEIGHTS SET TO 7' 11-3/8" (U.N.O.)
- BUILDER TO VERIFY WINDOW AND DOOR ROUGH OPENINGS
- and header heights

- <u>FLOOR SYSTEM</u>
 ENGINEERED WOOD FLOOR TRUSSES
 DESIGNED TO MIN. L/480 DEFLECTION OR LESS
 TRUSS MANUFACTURER TO PROVIDE CHASES FOR ALL SUPPLY AND RETURN DUCTWORK
 TRUSS MANUFACTURER TO VERIFY FRAMING AT CANTILEVERS FOR POINT LOADS FROM ABOVE
 TRUSS MANUFACTURER TO VERIFY LOCATIONS OF ANY CONCENTRATED LOADS, SUCH AS GRANITE COUNTERTOPS, AND PROVIDE PROPER FRAMING AS NEEDED FRAMING

- 2X4 EXTERIOR STUDS 9 1–1/8" PLATE HEIGHT (U.N.O.) 2X6 WALLS AT ALL POCKET DOORS AND
- PLUMBING WALLS. DOUBLE STUDS AT WINDOWS AND DOOR HEADERS PROVIDE SOLID BLOCKING AT ALL POINT LOADS
- INDICATES BEARING POINT LOAD
 PROVIDE CONTINUOUS SOLID BLOCKING TO FOUNDATION BELOW VERIFY LOADS W/ LOCAL STRUCTURAL ENGINEER

DOOR SCHEDULE SYMBOL 2468 REPRESENTS A 2'-4" WIDE x 6'-8" HIGH DOOR

TRUSS SUPPLIER TO VERIFY ALL SPANS, PITCHES, HEEL HEIGHTS AND OTHER CONDITIONS CRITICAL TO PROPER TRUSS FABRICATION. _____

ANY STRUCTURAL COMPONENTS THAT MAY NOTED ON THESE PLANS ARE INTENDED FOR DESIGN/BID PURPOSES ONLY. IT IS RECOMMENDED THAT ALL STRUCTURAL DESIGN ELEMENTS BE REVIEWED BY A LOCAL LICENSED PROFESSIONAL STRUCTURAL ENGINEER. FINAL ROOF AND FLOOR TRUSS DESIGN AND LAYOUT TO BE PROVIDED BY YOUR LOCAL TRUSS SUPPLIER.

+++ STRUCTURAL NOTICE +++ ALL STRUCTURAL BEAM AND HEADER SIZES, BEARING CONDITIONS AND ANCHORING REQUIREMENTS MUST BE REVIEWED BY A STRUCTURAL ENGINEER BASED ON EXISTING SITE CONDITIONS. OWNER/BUILDER TO ASSUME ALL RESPONSIBILITY FOR ENTIRE STRUCTURE.

UPPER LEVEL FLOOR PLAN

SCALE : 1 / 4" = 1' 0"

GENERAL NOTES - ROOF PLAN - TYPICAL OVERHANG DIMENSIONS (U.N.O.)

- EAVES = 24
- GABLES = 18"

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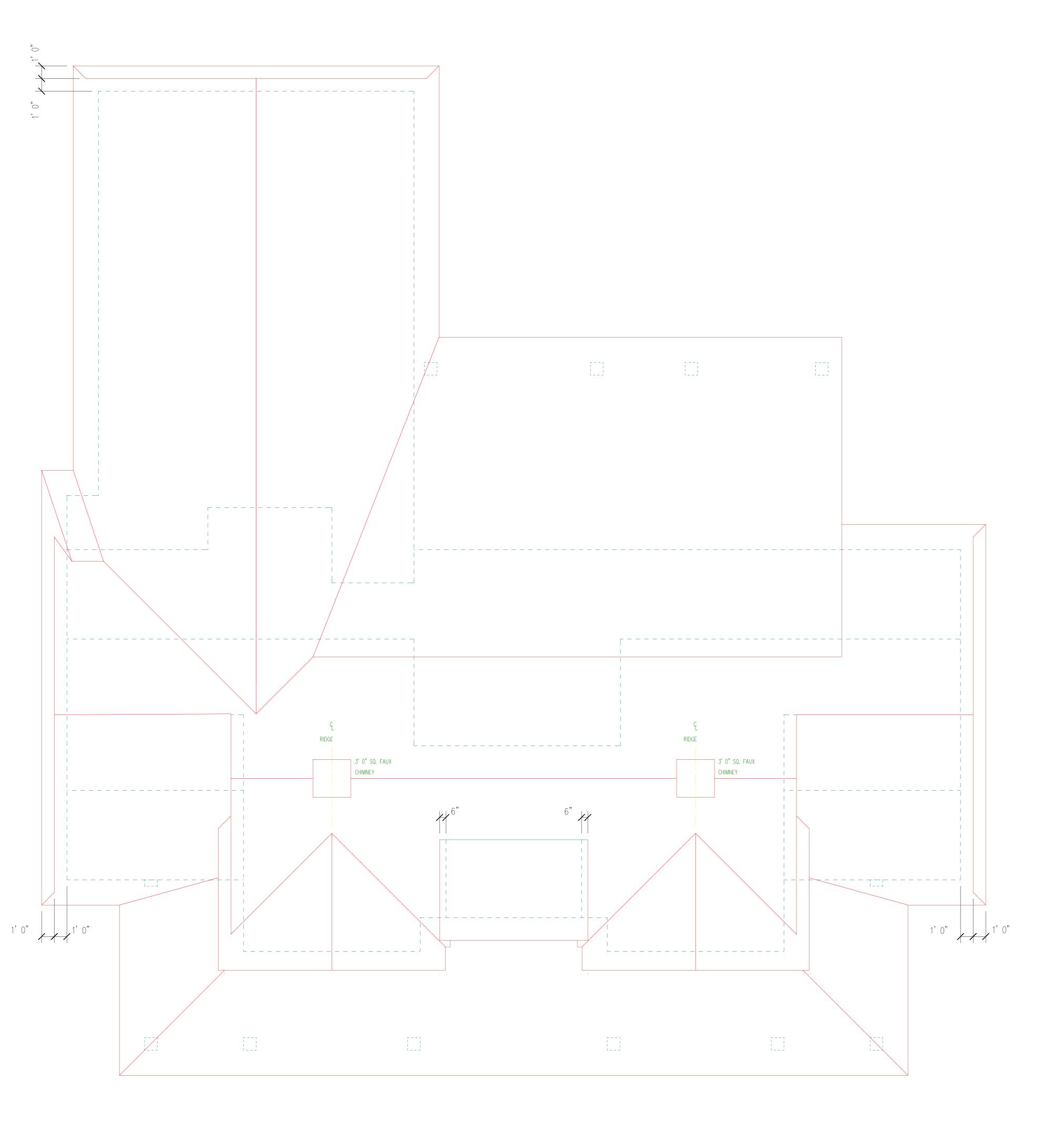
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- GABLES = 18"
 ROOF VENTING TO BE 1/200 OF ATTIC AREA
 50% IN EAVE 50% IN ROOF
 KEEP ROOF PENETRATIONS ON REAR SIDE OF ROOF AS MUCH AS POSSIBLE
 TRUSS MANUFACTURER TO VERIFY ALL PITCHES, OVERHANGS, HEEL HEIGHTS, EXTENDED CHORDS AND KNEEWALL HEIGHTS
 BUILDER TO REVIEW TRUSS DESIGN AND LAYOUT PRIOR TO TRUSS ORDER
 ICE & WATER SHIELD AT EAVES TO POINT OF 2' 0" BACK FROM INSIDE EDGE OF EXTERIOR WALL
 FULL ICE & WATER SHIELD ON ROOF PITCHES LESS THAN 4/12
 ROOFING CONTRACTOR TO INSTALL KICKOUT FLASHING AS NEEDED EXTERIOR WALL FINISHER TO VERIFY INSTALLATION PRIOR TO FINISHING

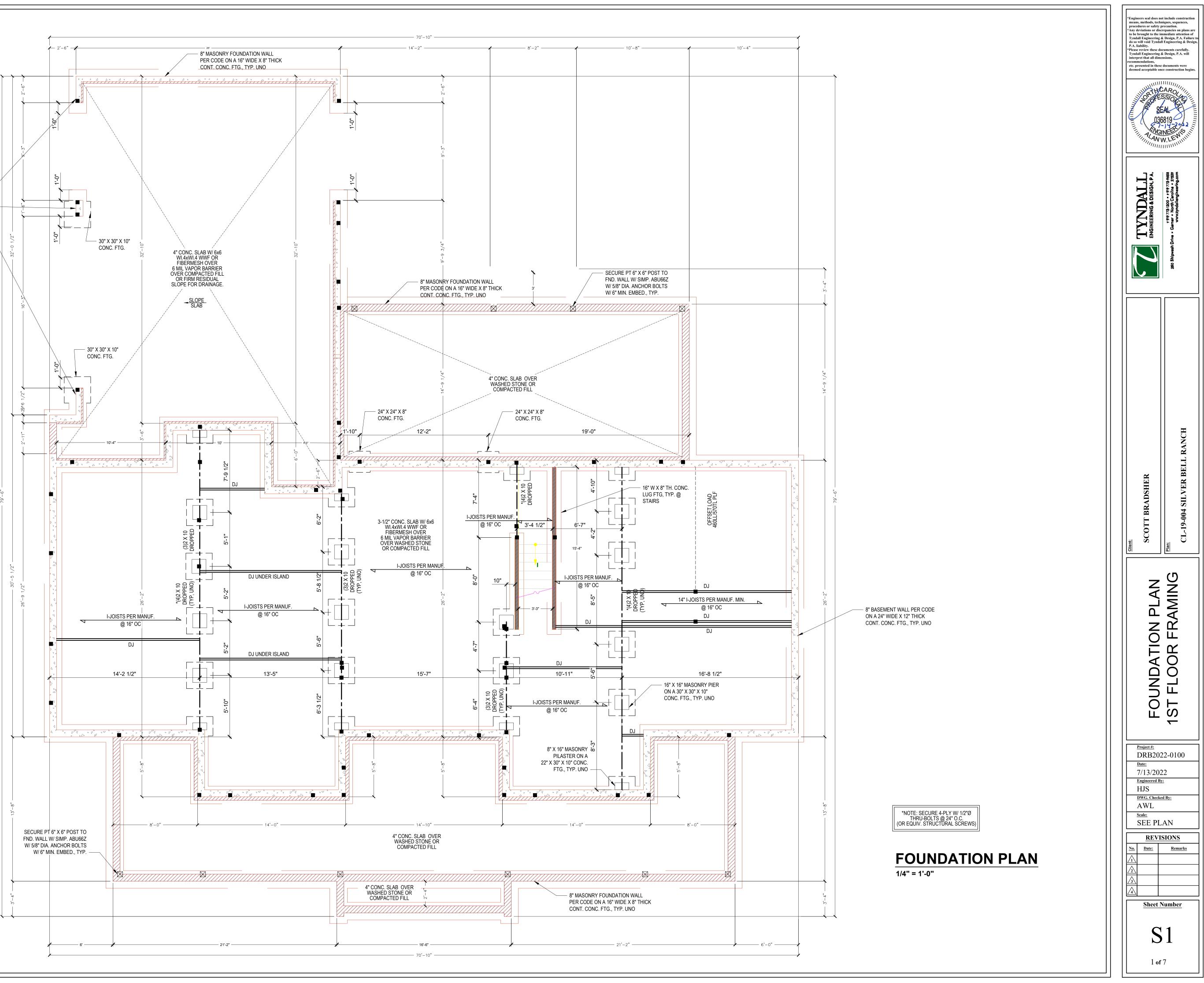
TRUSS SUPPLIER TO VERIFY ALL SPANS, PITCHES, HEEL HEIGHTS AND OTHER CONDITIONS CRITICAL TO PROPER TRUSS FABRICATION. ------ANY STRUCTURAL COMPONENTS THAT MAY NOTED ON THESE PLANS ARE INTENDED FOR DESIGN/BID PURPOSES ONLY. IT IS RECOMMENDED THAT ALL STRUCTURAL DESIGN ELEMENTS BE REVIEWED BY A LOCAL LICENSED PROFESSIONAL STRUCTURAL ENGINEER. FINAL ROOF AND FLOOR TRUSS DESIGN AND LAYOUT TO BE PROVIDED BY YOUR LOCAL TRUSS SUPPLIER.

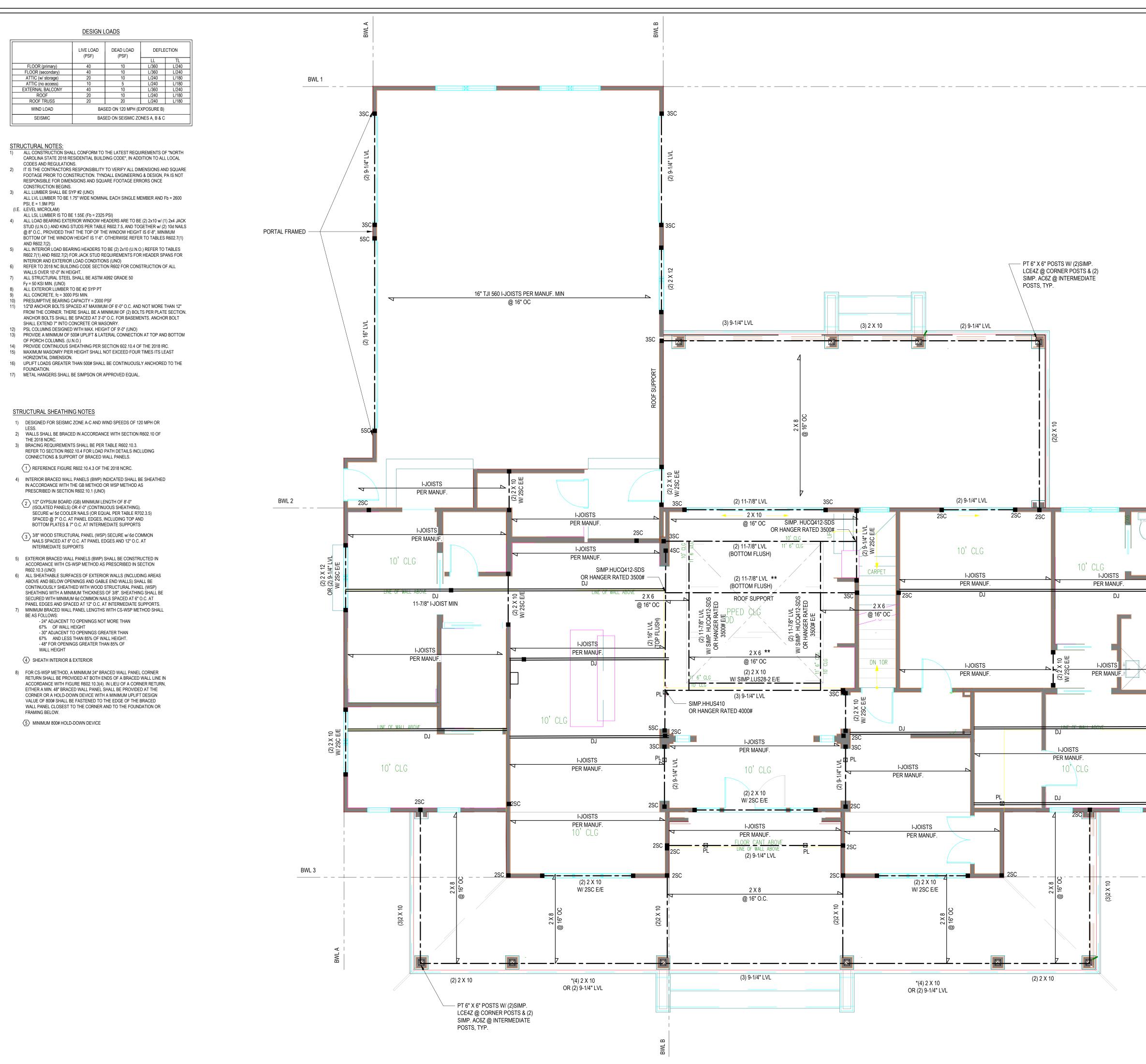
<u>+++ STRUCTURAL NOTICE</u> +++ ALL STRUCTURAL BEAM AND HEADER SIZES, BEARING CONDITIONS AND ANCHORING REQUIREMENTS MUST BE REVIEWED BY A STRUCTURAL ENGINEER BASED ON EXISTING SITE CONDITIONS. OWNER/BUILDER TO ASSUME ALL RESPONSIBILITY FOR ENTIRE STRUCTURE.

- ++ FOUNDATION ENGINEERING ++ ALL BUILDING FOUNDATION, FOOTING SIZES AND REINFORCING, INCLUDING POST FOOTINGS, TO BE DESIGNED ON SITE BY LOCAL ENGINEER OR FOUNDATION CONTRACTOR BASED ON EXISTING SITE CONDITIONS.
- <u>++ FOOTING FROST DEPTH:</u> ++ OWNER/CONTRACTOR TO ADJUST DEPTH OF ALL HOUSE, GARAGE, SLAB AND DECK POST FOOTINGS TO MEET LOCAL CODES.



<u>Г</u>	DESIGN I]			<i>k</i>
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTI	ON TL			2'-6"
FLOOR (primary)	40	10	L/360	L/240			
FLOOR (secondary)	40	10		L/240			
ATTIC (w/ storage)	20	10		L/180			
ATTIC (no access)	10	5		L/180			\
EXTERNAL BALCONY ROOF	40 20	10 10		L/240 L/180			
ROOF TRUSS	20	20		L/180			¹ و
WIND LOAD		SED ON 120 MPH (E				6	S S
SEISMIC		SED ON SEISMIC ZO	,				
STRUCTURAL NOTES: 1) ALL CONSTRUCTION SICAROLINA STATE 2018 CODES AND REGULATIO 2) IT IS THE CONTRACTOR FOOTAGE PRIOR TO CC RESPONSIBLE FOR DIM CONSTRUCTION BEGIN 3) ALL LUMBER SHALL BE ALL LVL LUMBER TO BE PSI, E = 1.9M PSI (I.E. ILEVEL MICROLAM) ALL LSL LUMBER IS TO 4) ALL LOAD BEARING EX STUD (U.N.O.) AND KING @ 8" O.C., PROVIDED TH BOTTOM OF THE WINDO AND R602.7(2). 5) ALL INTERIOR LOAD BE R602.7(1) AND R602.7(2) INTERIOR AND EXTERIO 6) REFER TO 2018 NC BUIL WALLS OVER 10'-0" IN H 7) ALL STRUCTURAL STEE Fy = 50 KSI MIN. (UNO) 8) ALL CONCRETE, fc = 300 10) PRESUMPTIVE BEARING 11) 1/2"Ø ANCHOR BOLTS S	RESIDENTIAL BUILT ONS. S RESPONSIBILITY INSTRUCTION. TYN ENSIONS AND SQU S. SYP #2 (UNO) 1.75" WIDE NOMIN BE 1.55E (Fb = 2325 TERIOR WINDOW H S STUDS PER TABL 1AT THE TOP OF TH DW HEIGHT IS 1'-6". ARING HEADERS T FOR JACK STUD R ING CODE SECTI EIGHT. L SHALL BE ASTM TO BE #2 SYP PT DO PSI MIN. G CAPACITY = 2000	DING CODE", IN AD TO VERIFY ALL DI IDALL ENGINEERIN JARE FOOTAGE ER AL EACH SINGLE M 5 PSI) EADERS ARE TO B E R602.7.5, AND TO 1E WINDOW HEIGH OTHERWISE REFE O BE (2) 2x10 (U.N. EQUIREMENTS FO NS (UNO) ON R602 FOR CON A9922 GRADE 50 PSF	DITION TO ALL LC MENSIONS AND S IG & DESIGN, PA I RORS ONCE MEMBER AND Fb = E (2) 2x10 w/ (1) 2x OGETHER w/ (2) 10 IT IS 6'-8", MINIMU IT IS 6'-8", MINIMU IT TO TABLES R60 O.) REFER TO TAB R HEADER SPANS STRUCTION OF A	CAL QUARE S NOT 2600 4 JACK d NAILS M J2.7(1) BLES S FOR LL	PORTAL FRAMED	32'-0 1/2"	0 10 10 10 10 10 10 10 10 10 1
 FROM THE CORNER. THANCHOR BOLTS SHALL SHALL EXTEND 7" INTO PSL COLUMNS DESIGNI PROVIDE A MINIMUM OI OF PORCH COLUMNS. (PROVIDE CONTINUOUS MAXIMUM MASONRY PI HORIZONTAL DIMENSIC UPLIFT LOADS GREATE FOUNDATION. METAL HANGERS SHAL 	BE SPACED AT 3-C CONCRETE OR MA ED WITH MAX. HEIG 500# UPLIFT & LA ^T U.N.O.) SHEATHING PER S ER HEIGHT SHALL I N. R THAN 500# SHALL)" O.C. FOR BÁSEM SONRY. SHT OF 9'-0" (UNO) TERAL CONNECTIO SECTION 602.10.4 C NOT EXCEED FOUF L BE CONTINUOUS	ENTS. ANCHOR B ON AT TOP AND BO F THE 2018 IRC. R TIMES ITS LEAS LY ANCHORED TO	OLT DTTOM T			30" X 30" X 10" CONC. FTG.







BWL 1	 ^aEngineers seal does not include construction means, methods, techniques, sequences, p
BWL 2 ** = FRAME @ 11%* CEILING HEIGHT BRACING PANEL LENGTHS REQUIRED: BWL A = 35FT BWL A = 35FT	ER ER ING CL-19-004 SILVER BELL RANCH
BWL 2 = 10.0 FT BWL 3 = 4.7 FT BRACING PANEL LENGTHS PROVIDED: BWL 8 = 24.2 FT CS-WSP BWL 8 = 24.2 FT CS-WSP BWL 2 = 15.8 FT CS-WSP BWL 2 = 15.8 FT CS-WSP BWL 2 = 15.8 FT CS-WSP BWL 3 = 37.9 FT CS-WSP	1ST FLOOR HEADER 2ND FLOOR FRAMING
BWL 3 BWL 3	Project #: DRB2022-0100 Date: 7/13/2022 Engineered By: HJS DWG. Checked By: AWL Scale: SEE PLAN <u>REVISIONS</u> No. Date: Remarks AWL SEE PLAN <u>No. Date: Remarks</u> AWL SEE PLAN <u>SEE PLAN</u>

2 of 7

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
	(- /	(-)	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	10	L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BAS	SED ON 120 MPH (E	XPOSURE B)	
SEISMIC	BAS	ED ON SEISMIC ZO	NES A, B & C	

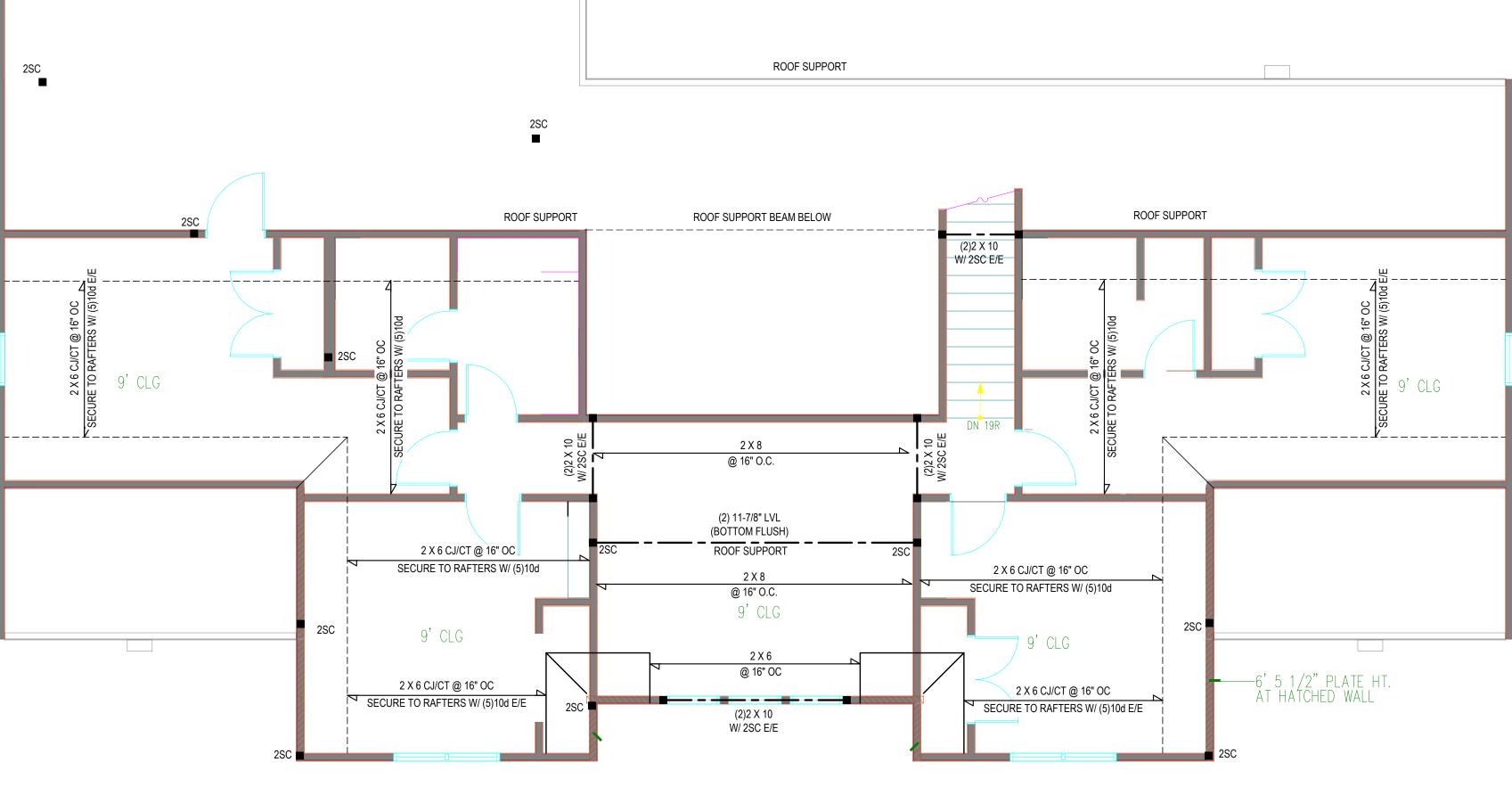
- STRUCTURAL NOTES:

 1)
 ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL
 CODES AND REGULATIONS.
- 2) IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT
- RESPONSIBLE FOR DIMENSIONS AND SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
- 3) ALL LUMBER SHALL BE SYP #2 (UNO) ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI
- (I.E. iLEVEL MICROLAM)
- ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI) 4) ALL LOAD BEARING EXTERIOR WINDOW HEADERS ARE TO BE (2) 2x10 w/ (1) 2x4 JACK STUD (U.N.O.) AND KING STUDS PER TABLE R602.7.5, AND TOGETHER w/ (2) 10d NAILS
- @ 8" O.C., PROVIDED THAT THE TOP OF THE WINDOW HEIGHT IS 6'-8", MINIMUM BOTTOM OF THE WINDOW HEIGHT IS 1'-6". OTHERWISE REFER TO TABLES R602.7(1)
- AND R602.7(2).
 ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLES R602.7(1) AND R602.7(2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)
 REFER TO 2018 NC BUILDING CODE SECTION R602 FOR CONSTRUCTION OF ALL WALLS OVER 10-0" IN HEIGHT.
- 7) ALL STRUCTURAL STEEL SHALL BE ASTM A992 GRADE 50
- Fy = 50 KSI MIN. (UNO) 8) ALL EXTERIOR LUMBER TO BE #2 SYP PT
- 9) ALL CONCRETE, fc = 3000 PSI MIN. PRESUMPTIVE BEARING CAPACITY = 2000 PSF
- 11) 1/2"Ø ANCHOR BOLTS SPACED AT MAXIMUM OF 6'-0" O.C. AND NOT MORE THAN 12" FROM THE CORNER. THERE SHALL BE A MINIMUM OF (2) BOLTS PER PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY.
- PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO)
 PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM
- OF PORCH COLUMNS. (U.N.O.) 14) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC. 15) MAXIMUM MASONRY PIER HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST
- HORIZONTAL DIMENSION.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- 17) METAL HANGERS SHALL BE SIMPSON OR APPROVED EQUAL.

STRUCTURAL SHEATHING NOTES

- 1) DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- 2) WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF THE 2018 NCRC.
- 3) BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3. REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
- T REFERENCE FIGURE R602.10.4.3 OF THE 2018 NCRC. 4) INTERIOR BRACED WALL PANELS (BWP) INDICATED SHALL BE SHEATHED IN ACCORDANCE WITH THE GB METHOD OR WSP METHOD AS PRESCRIBED IN SECTION R602.10.1 (UNO)
- (2) 1/2" GYPSUM BOARD (GB) MINIMUM LENGTH OF 8'-0" (ISOLATED PANELS) OR 4'-0" (CONTINUOUS SHEATHING). SECURE w/ 5d COOLER NAILS (OR EQUAL PER TABLE R702.3.5) SPACED @ 7" O.C. AT PANEL EDGES, INCLUDING TOP AND BOTTOM PLATES & 7" O.C. AT INTERMEDIATE SUPPORTS
- 3/8" WOOD STRUCTURAL PANEL (WSP) SECURE w/ 6d COMMON NAILS SPACED AT 6" O.C. AT PANEL EDGES AND 12" O.C. AT INTERMEDIATE SUPPORTS
- 5) EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN CORDANCE WITH CS-WSP METHOD A
- R602.10.3 (UNO) 6) ALL SHEATHABLE SURFACES OF EXTERIOR WALLS (INCLUDING AREAS ABOVE AND BELOW OPENINGS AND GABLE END WALLS) SHALL BE CONTINUOUSLY SHEATHED WITH WOOD STRUCTURAL PANEL (WSP) SHEATHING WITH A MINIMUM THICKNESS OF 3/8". SHEATHING SHALL BE SECURED WITH MINIMUM 6d COMMON NAILS SPACED AT 6" O.C. AT
- PANEL EDGES AND SPACED AT 12" O.C. AT INTERMEDIATE SUPPORTS. MINIMUM BRACED WALL PANEL LENGTHS WITH CS-WSP METHOD SHALL BE AS FOLLOWS: - 24" ADJACENT TO OPENINGS NOT MORE THAN 67% OF WALL HEIGHT - 30" ADJACENT TO OPENINGS GREATER THAN
- 67% AND LESS THAN 85% OF WALL HEIGHT. - 48" FOR OPENINGS GREATER THAN 85% OF WALL HEIGHT
- $\langle 4 \rangle$ SHEATH INTERIOR & EXTERIOR
- 8) FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3(4). IN LIEU OF A CORNER RETURN, EITHER A MIN. 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR FRAMING BELOW.

5 MINIMUM 800# HOLD-DOWN DEVICE



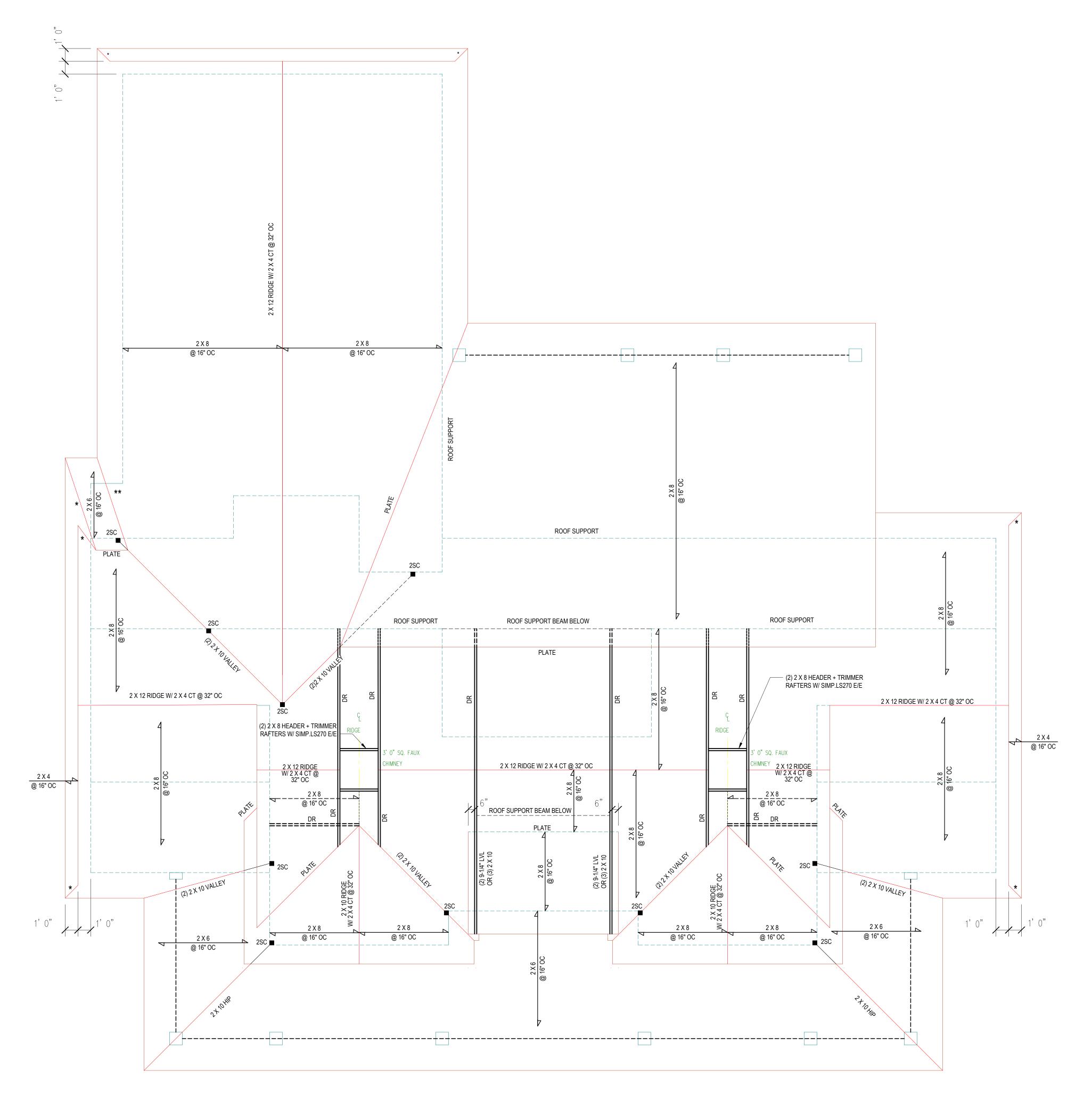




means, methods, tech procedures or safety y *Any deviations or dist to be brought to the in Tyndall Engineering y do so will void Tynda P.A. liability. *Please review these do Tyndall Engineering y interpret that all dimu recommendations, etc. presented in these	precaution. crepancies on plans are mmediate attention of & Design, P.A. Failure to II Engineering & Design, betweents carefully. & Design, P.A. will ensions, e documents were tece construction begins.
TYNDALL ENGINEERING & DESIGN, P.A.	+ 919 773-1200 = # 919 773-1200 = # 919 773-9658 250 Shipwesh Drive = Garner = North Carolina = 27829 www.tyndallanginearing.com
<u>client:</u> SCOTT BRADSHER	Plan: CL-19-004 SILVER BELL RANCH
2ND FLOOR HEADER	2ND FLR. CLG. FRAMING
Project #: DRB202 Date: 7/13/202 Engineered B HJS DWG. Checke AWL SEE PL <u>REVI</u> <u>No. Date:</u> 1 2	22 <u>v:</u> ed By:
	<u>Number</u> 3 7

SECOND FLOOR PLAN

1/4" = 1'-0"

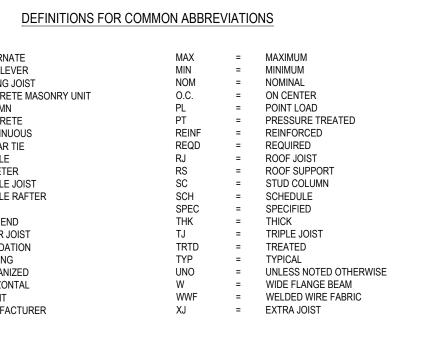


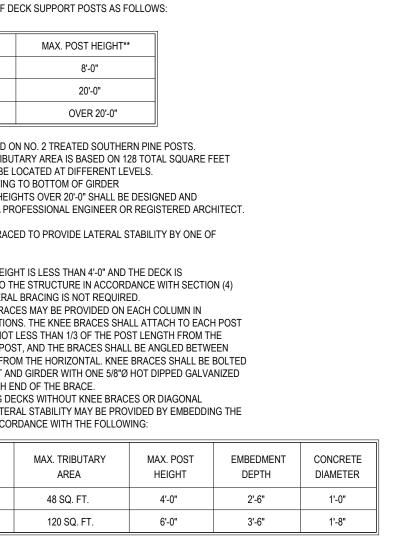
do so will void Tyndal P.A. liability. *Please review these do Tyndall Engineering & interpret that all dime recommendations, etc. presented in these	idues, sequences, recaution. repancies on plans are amediate attention of & Design, P.A. Failure to I Engineering & Design, cuments carefully. & Design, P.A. will nsions, documents were ce construction begins.
TYNDALL ENGINEERING & DESIGN, P.A.	7 9/9 773-1200 = r 9/9 773-9658 250 Shipwesh Drive = Gerner = North Caroline = 27529 www.tyndellanginearing.com
Client: SCOTT BRADSHER	Plan: CL-19-004 SILVER BELL RANCH
ROOF PLAN	
$ \underline{No.} \underline{Date:} $ $ \underline{1} $ $ \underline{2} $ $ \underline{3} $ $ \underline{4} $	22 <u>a</u> <u>a</u> <u>b</u> <u>s</u> <u>s</u> <u>s</u> <u>s</u> <u>s</u> <u>s</u> <u>s</u> <u>s</u>

***** = 2 X 10 HIP ****** = (2) 2 X 10 VALLEY

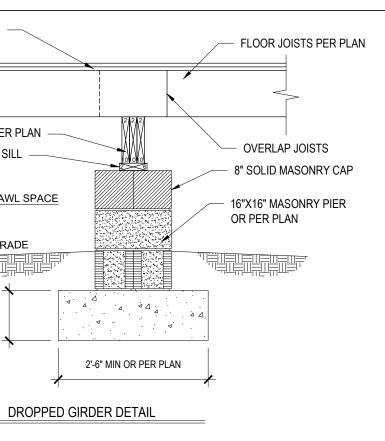
> **ROOF PLAN** 1/4" = 1'-0"

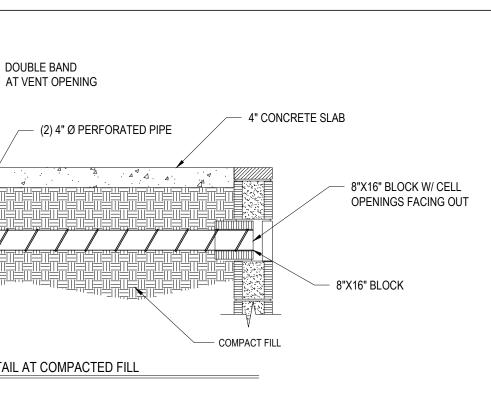
) DESI	IGN LOADS:			LIVE L	-) LOAD	DEFLEC	TION			ALT = CANT = CJ =
		ALL	FLOORS	(PS	, , ,	'SF) 10	LL L/360	TL L/240			CMU = COL = CONC =
		ATTIC (pu	/ walk up stairs) Ill down access)	30)	10	L/360 L/240	L/240 L/180			CONT = CT =
		EXTERN	(no access) IAL BALCONY	10 40) .	10	L/240 L/360	L/180 L/240			DBL = DIA = DJ =
			ROOF DF TRUSS	20		-	L/240 L/240	L/180 L/180	_		DR = EA =
			ND LOAD			D ON 120 MPH (EXP	,		_		EE = FJ = FND =
MININ											FTG = GALV = HORIZ =
CON		A MINIMUM 28 D	AY COMPRESSIVE ST	RENGTH OF 300	0 PSI AND A MAXIM	UM SLUMP OF FIVE	INCHES				HT = MANUF =
MAXII BRAC	IMUM DEPTH OF UN CING. REFER TO SE	BALANCED FILL A CTION R404 OF 20	GAINST FOUNDATION 18 NC BUILDING COL D BACKFILL HEIGHT.	DE FOR BACKFIL							
ALL F ALL F ALL L	FRAMING LUMBER S FRAMING LUMBER E LVL LUMBER TO BE	SHALL BE SYP #2 EXPOSED TO THE 1.75" WIDE NOMIN	(Fb = 800 PSI, BASED ELEMENTS SHALL BI NAL EACH SINGLE MEN AL EACH SINGLE MEN	ON 2x10) UNO. E TREATED MATI MBER AND Fb =	2600 PSI, E = 1.9M F						1) MAXIMUM HE
ALL L	LOAD BEARING EXT	ERIOR HEADERS	AL EACH SINGLE MEI SHALL BE AT (2) 2x10 R INTERIOR AND EXT	. (U.N.O.) REFER	R TO TABLE R602.7(1) & (2) FOR JACK ST					POST :
ALL S	STEEL ANGLES, PLA	TES, AND C-CHAI	AMS) SHALL BE AST		0.						6 x
STEE		SUPPORTED AT	EACH END WITH A M								* THIS TABLE I MAXIN
LAG S	SCREWS (1/2"Ø x 4"	LONG). LATERAL	IPPORT TO FOUNDAT SUPPORT IS CONSIE RE NAILED OR BOLTEI	ERED ADEQUAT	E PROVIDED THE J	OISTS ARE TOE NAI					** FROM TOP O *** DECKS WITH
, THE E	END OF EACH PLAT	E SECTION. ANCH	R SECTION 403.1.6: 1/ HOR BOLTS SHALL BE Y. THE BOLTS SHALL	SPACED AT 3'-0)" O.C. FOR BASEME	ENTS. ANCHOR BOL	T SHALL				SEALI 2) DECKS SHAL
THER	RE SHALL BE A MINI	MUM TWO ANCHO	G OR WATERPROOFI	SECTION.							THESE METH A. THE DECK FI
WALL	L AND ROOF CLADD	ING VALUES:									ATTA ABOV B. 4 x 4 WOOD F
ROOF		SITIVE AND NEGA	R 28.0 POUNDS PER ATIVE SHALL BE AS F(O 1.5/12		LBS/SQFT) OR GRE	ATER POSITIVE AND) NEGATIVE PR	ESSURE.			BOTH AT A I
36.0 L 18.0 L	LBS/SQFT FOR ROC LBS/SQFT FOR ROC	F PITCHES 1.5/12 F PITCHES 6/12 T	TO 6/12								TOP (45° Al TO TH
	AN ROOF HEIGHT 3		4/12. BUILDER TO IN	STALI 21 AVEDO	OF 15# FFI T PADE	٦.					BOLT C. FOR FREEST
			4/12, BUILDER TO IN								BRAC POST
			SECTION 602.10.3 OF								POS
UPLIF	FT LOADS GREATEF	R THAN 500# SHAI	L BE CONTINUOUSL	Y ANCHORED TO) THE FOUNDATION.						
REFE	ER TO TABLE N1102	1 FOR PRESCRIP	TIVE BUILDING ENVE	LOPE THERMAL	COMPONENT CRITE	ERIA.					4 2
			MHEIGHT OF 9'-0" (U.M	,							
			NOT EXCEED FOUR			()					D. 2 x 6 DIAGON (2) PE
IT IS	THE CONTRACTOR	S RESPONSIBILIT	Y TO VERIFY ALL DIM	ENSIONS AND S	QUARE FOOTAGE P	RIOR TO CONSTRU					to ti the 2 Dippe
TYND	DALL ENGINEERING	& DESIGN, PA IS	NOT RESPONSIBLE F	OR DIMENSION	UR SQUARE FOOTA	GE ERRORS ONCE	CONSTRUCTIO	N BEGINS.			E. FOR EMBED
			014755				1	BASEMENT ^{c, <u>c</u>}	2 SLAB d		
MATE DNES	FENESTRATION U-FACTOR	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC ^{⊳,<u>k</u>}	CEILING ^m R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	WALL R-VALUE	R-VALUE AND DEPTH	CRAWL SPACE WALL R-VALUE	STRUCTURAL SHE
3	0.35	0.55	0.30	<u>38 or 30</u> <u>cont</u>	<u>15</u> or 13 + <u>2.5</u> ^h	<u>5/13 or</u> <u>5/10 cont</u>	19	5/13	0	5/13	STRUCTURAL SHE
4	0.35	0.55	<u>0.30</u>	38 or 30 cont ^j	15 or 13 + <u>2.5</u> ^h	<u>5/13 or</u> <u>5/10 cont</u>	19	<u>10/15</u>	10	<u>10/15</u>	
5	<u>0.35</u>	0.55	NR	<u>38 or 30</u> <u>cont</u> ^j	n <u>19, or 13 + 5</u> or 15 + 3	13/17 <u>or</u> <u>13/12.5 cont</u>	30 ^g	<u>10/15</u>	10	<u>10/19</u>	
0.004/5			MATE ZONES 3-5								(3) 2X10 GIRDE 2X6 (MIN) TR
O SCALE 🕻	OF TH	E INSULATION, THE INSTA	RS AND SHGC ARE MAXIMUMS. LLED R-VALUE OF THE INSULAT UMN EXCLUDED SKYLIGHTS. TH	ION SHALL NOT BE LESS	S THAN THE R-VALUE SPECIFI		R DESIGN THICKNESS				
	c. <u>"10/15" ME/</u>	ANS R-10 CONTINUOUS IN	L GLAZED FENESTRATION. SULATED SHEATHING ON THE II								
	d. FOR MONO	DLITHIC SLABS, INSULATIC FOOTING OR A MAXIMUM	THE INTERIOR OF THE BASEME IN SHALL BE APPLIED FROM TH OF 24" BELOW GRADE WHICHE	E INSPECTION GAP DOW VER IS LESS. FOR FLOAT	INWARD TO THE BOTTOM						
	011011		OF THE FOUNDATION WALL OR EDGE R-VALUES FOR HEATED S	LABS.	_						Ē
	ADDED e. <u>DELETED</u>		REQUIRED IN WARM-HUMID LO								
	ADDED e. <u>DELETED</u> f. BASEMENT g. OR INSULA	TION SUFFICIENT TO FILL	THE FRAMING CAVITY. R-19 M	ONITINU LOUIS		COVERS 25% OR LESS OF T HING COVERS MORE THAN 25	HE EXTERIOR,				
	ADDED e. <u>DELETED</u> f. BASEMENT g. OR INSULA h. THE FIRST SHEA <u>INSUL</u>	TION SUFFICIENT TO FILL VALUE IS CAVITY INSULA FHING. "15+3" MEANS R-15 ATING SHEATHING IS NOT	TION, THE SECOND VALUE IS C CAVITY INSULATION. PLUS R-3 REQUIRED WHERE THE STRUC	INSULATED SHEATHING TURAL SHEATHING IS U							
	ADDED e. <u>Deletted</u> f. Basement g. or insul <i>a</i> h. The first Shea <u>insul</u> <u>OF Th</u> insul	TION SUFFICIENT TO FILL VALUE IS CAVITY INSULA THING. "15+3" MEANS R-15 ATING SHEATHING IS NOT E EXTERIOR, SHALL BE SU ATION PLUS R-2.5 SHEATH	TION, THE SECOND VALUE IS C CAVITY INSULATION. PLUS R-3 REQUIRED WHERE THE STRUC JPPLEMENTED WITH INSULATED	INSULATED SHEATHING TURAL SHEATHING IS U D SHEATHING OF AT LEA	A <u>ST R-2.</u> "13 + 2.5" MEANS R-13						
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	ADDED e. <u>DELETED</u> f. BASEMENT g. OR INSUL ² h. THE FIRST SHEA INSUL OF TH INSUL i. FOR MASS <u>j. IN ADDITIO</u> <u>PERMIT</u> <u>k. IN ADDITIO</u> <u>PERMIT</u> I. R-30 SHALL	TION SUFFICIENT TO FILL VALUE IS CAVITY INSULA THING. *15+3* MEANS R-15 ATING SHEATHING IS NOT E EXTERIOR, SHALL BE SI ATION PLUS R-2.5 SHEAT- WALLS, THE SECOND R-V. N TO THE EXEMPTION IN TED TO BE SUBSTITUTED IN TO THE EXEMPTION IN TED TO BE SUBSTITUTED. IN TO THE EXEMPTION IN TED TO BE SUBSTITUTED. BE DEEMED TO SATISFY	TION, THE SECOND VALUE IS C CAVITY INSULATION. PLUS R-3 REQUIRED WHERE THE STRUC JPPLEMENTED WITH INSULATEI HING. ALUE APPLIES WHEN MORE TH SECTION N1102.3.3, A MAXIMUM FOR MINIMUM CODE COMPLIAN SECTION N1102.3.3, A MAXIMUN FOR MINIMUM CODE COMPLIAN THE CELLING INSULATION REQ	INSULATED SHEATHING ITURAL SHEATHING IS U 2 SHEATHING OF AT LEA AN HALF THE INSULATIO OF TWO GLAZED FENES IT FENESTRATION PROD I OF TWO GLAZED FENE IT FENESTRATION PROT IT FENESTRATION PROT IT FENESTRATION PROT	IST R.2. "13 + 2.5" MEANS R-13 IN IS ON THE INTERIOR MASS STRATION PRODUCT ASSEMB UICT ASSEMBLIES WITHOUT F STRATION PRODUCT ASSEMB UICT ASSEMBLIES WITHOUT F THE FULL HEIGHT OF UNCOMP	WALL. LIES HAVING A U-FACTOR NC 'ENALTY. SLIES HAVING A SHGC NO GR 'ENALTY. 'RESSED F-30 INSULATION E:	EATER THAN 0.70 SHA	LL BE			NO SCALE
	ADDED e. <u>DELETED</u> f. BASEMENT g. OR INSUL ⁴ h. THE FIRST SHEA OF TH INSUL i. FOR MASS <u>j. IN ADDITIO</u> <u>PERMIT</u> <u>k. IN ADDITIO</u> <u>PERMIT</u> <u>L. R-30 SHALI</u> <u>AT THEI</u> <u>OF THEL</u> <u>THEL</u>	TION SUFFICIENT TO FILL VALUE IS CAVITY INSULA THING. *15+3* MEANS R-15 ATING SHEATHING IS NOT E EXTERIOR, SHALL BE SI ATION PLUS R-2.5 SHEAT- WALLS, THE SECOND R-V N TO THE EXEMPTION IN TED TO BE SUBSTITUTED IN TO THE EXEMPTION IN TED TO BE SUBSTITUTED BE DEEMED TO SATISFY AVES. OTHERWISE R-38 ATTIC ROOF DECK.	TION, THE SECOND VALUE IS C CAVITY INSULATION. PLUS R-3 REQUIRED WHERE THE STRUC JPPLEMENTED WITH INSULATEI IMG. ALUE APPLIES WHEN MORE TH SECTION N1102.3.3, A MAXIMUM FOR MINIMUM CODE COMPLIAN SECTION N1102.3.3, A MAXIMUM FOR MINIMUM CODE COMPLIAN	INSULATED SHEATHING ITURAL SHEATHING IS U D SHEATHING OF AT LEA AN HALF THE INSULATIO OF TWO GLAZED FENES IT FENESTRATION PROD IOF TWO GLAZED FENE IT FENESTRATION PROD JIREMIENT WHEREVER T RE ADEQUATE CLEARAN ACE IS LIMITED BY THE F	NIS ON THE INTERIOR MASS STRATION PRODUCT ASSEMB NUCT ASSEMBLIES WITHOUT F STRATION PRODUCT ASSEME UUCT ASSEMBLIES WITHOUT F THE FULL HEIGHT OF UNCOMF ICE EXISTS OR INSULATION M PITCH OF THE ROOF; THERE T	WALL. LIES HAVING A U-FACTOR NC <u>PENALTY.</u> BLIES HAVING A SHGC NO GR <u>PENALTY.</u> <u>PRESSED R-30 INSULATION E'</u> TUST EXTEND TO EITHER THE INE INSULATION MUST FILL TI	EATER THAN 0.70 SHA XTENDS OVER THE W/ INSULATION BAFFLE HE SPACE UP TO THE	LL BE LL TOP PLATE DR WITHIN 1 INCH NR BAFFLE.			NO SCALE
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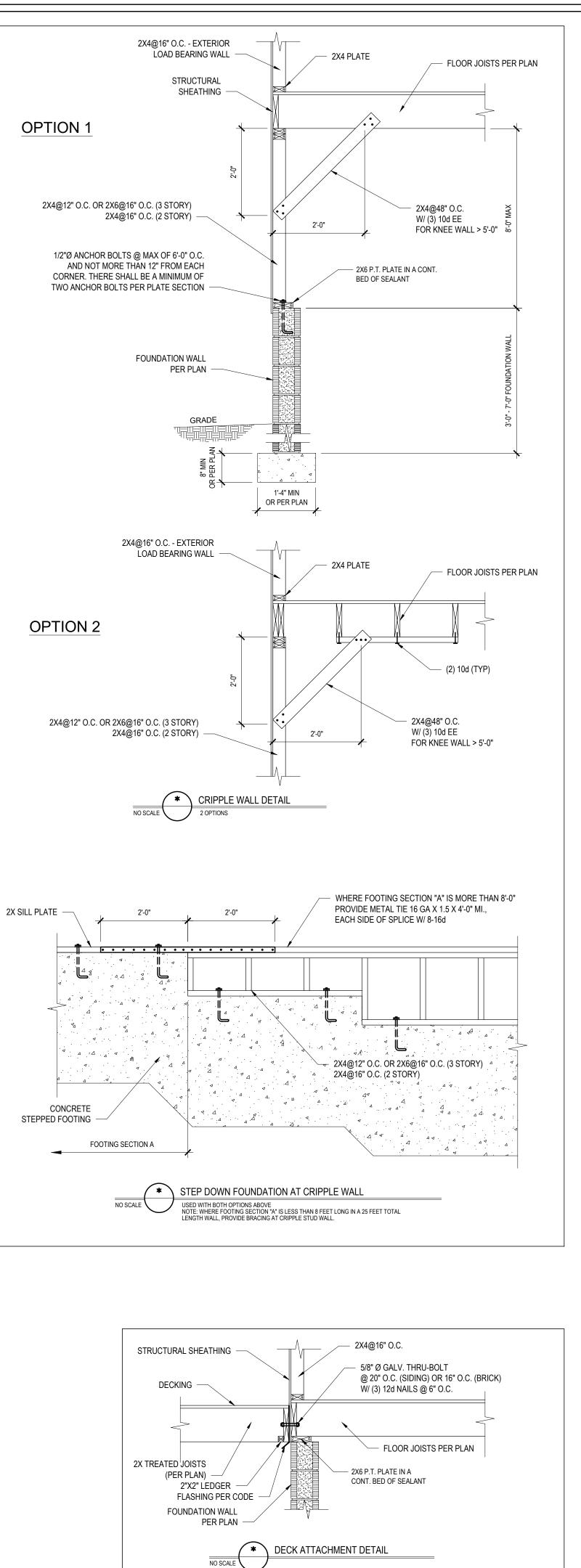


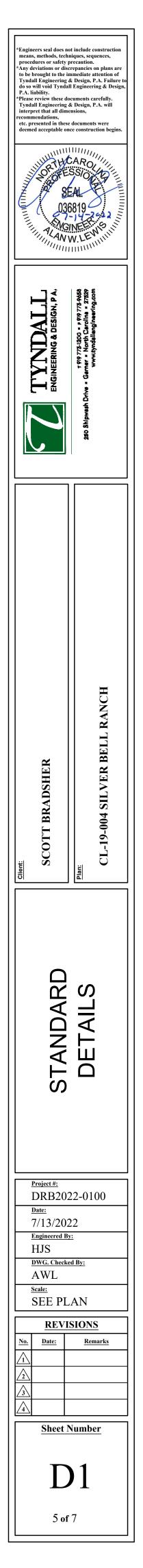


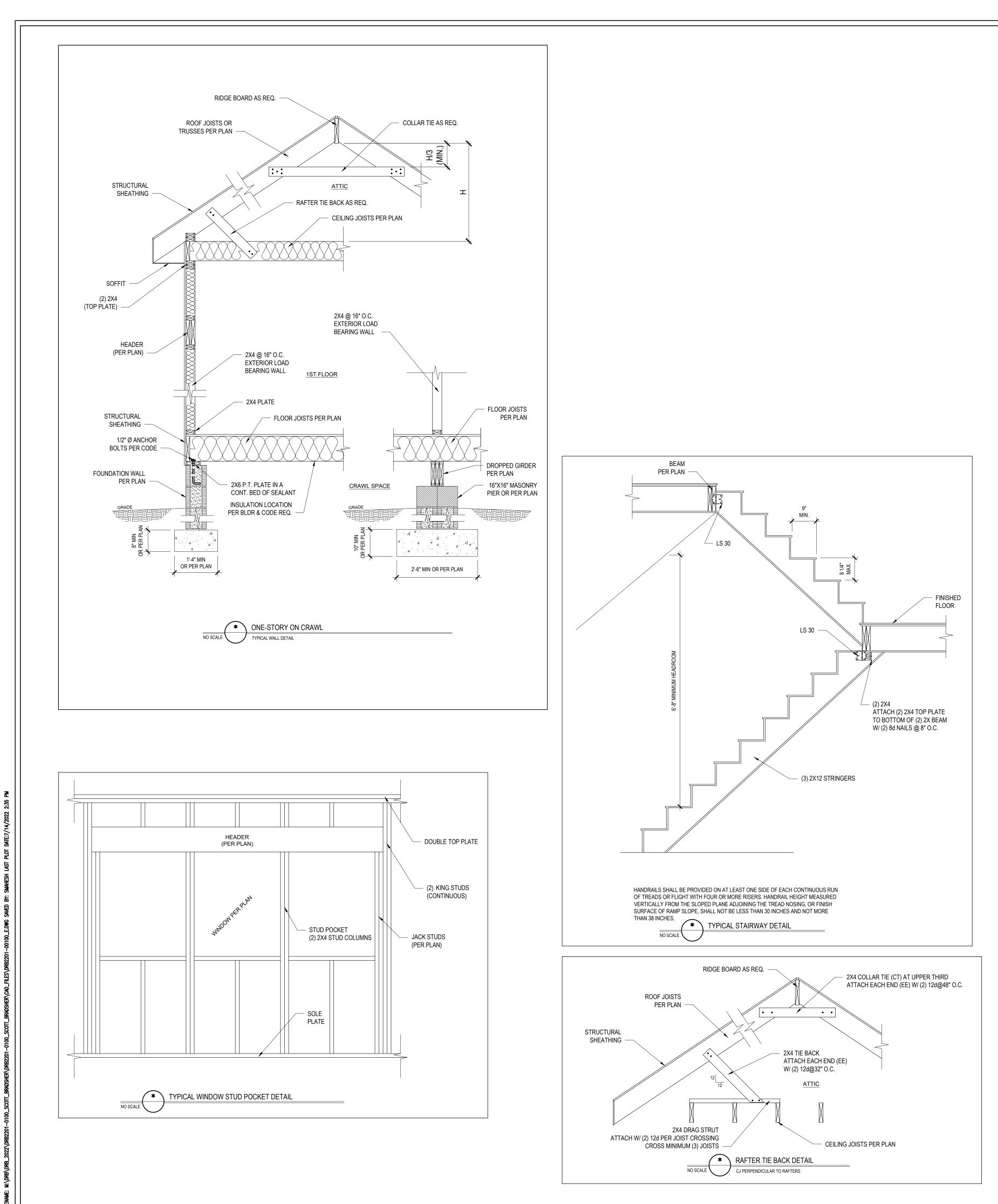
AL CROSS BRACING MAY BE PROVIDED IN TWO AR DIRECTIONS FOR FREESTANDING DECKS OR PARALLEL JRE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. BE ATTACHED TO THE POSTS WITH ONE 5/8"Ø HOT IZED BOLT AT EACH END OF EACH BRACING MEMBER. LES IN COASTAL REGIONS, SEE CHAPTER 46.

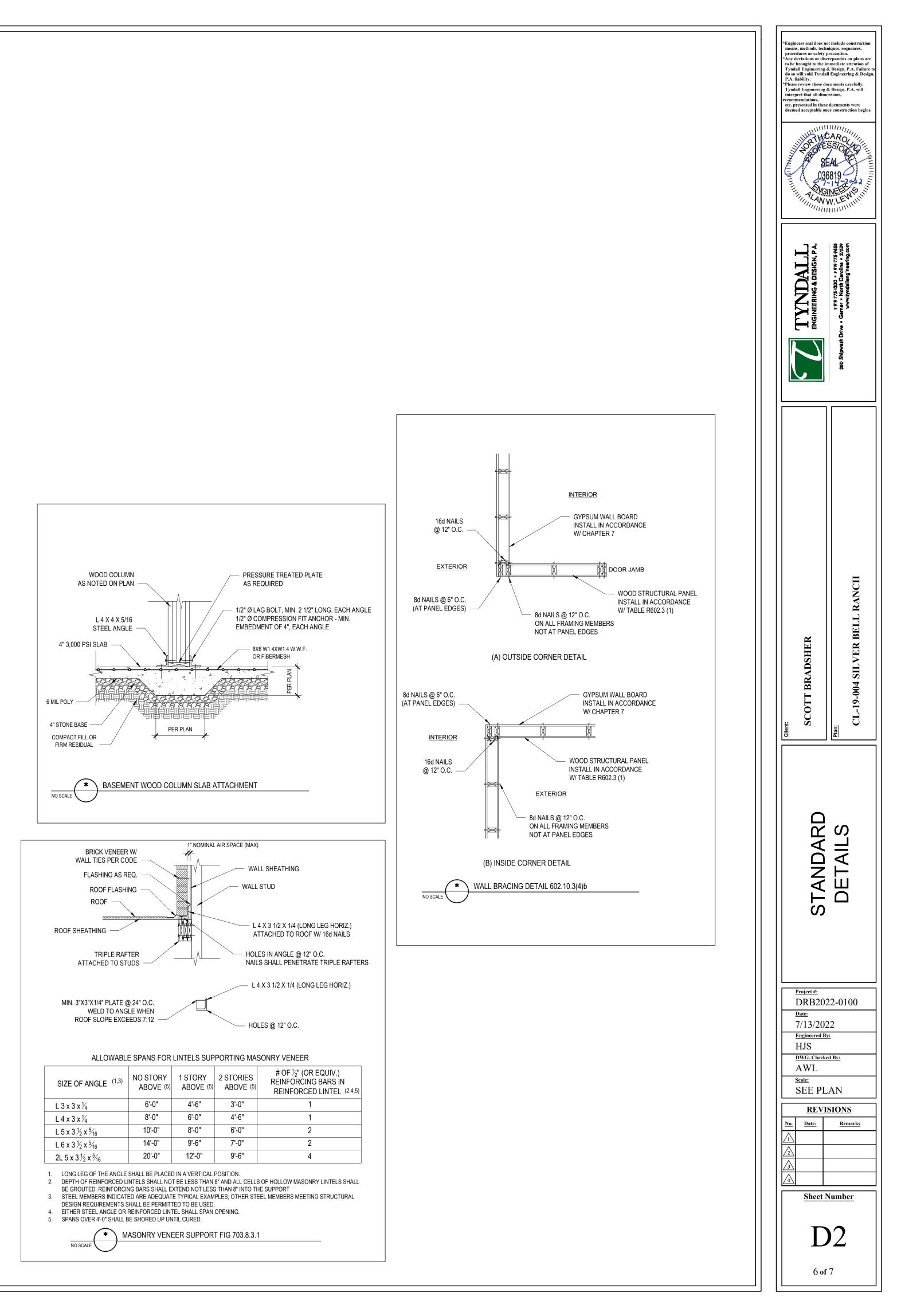


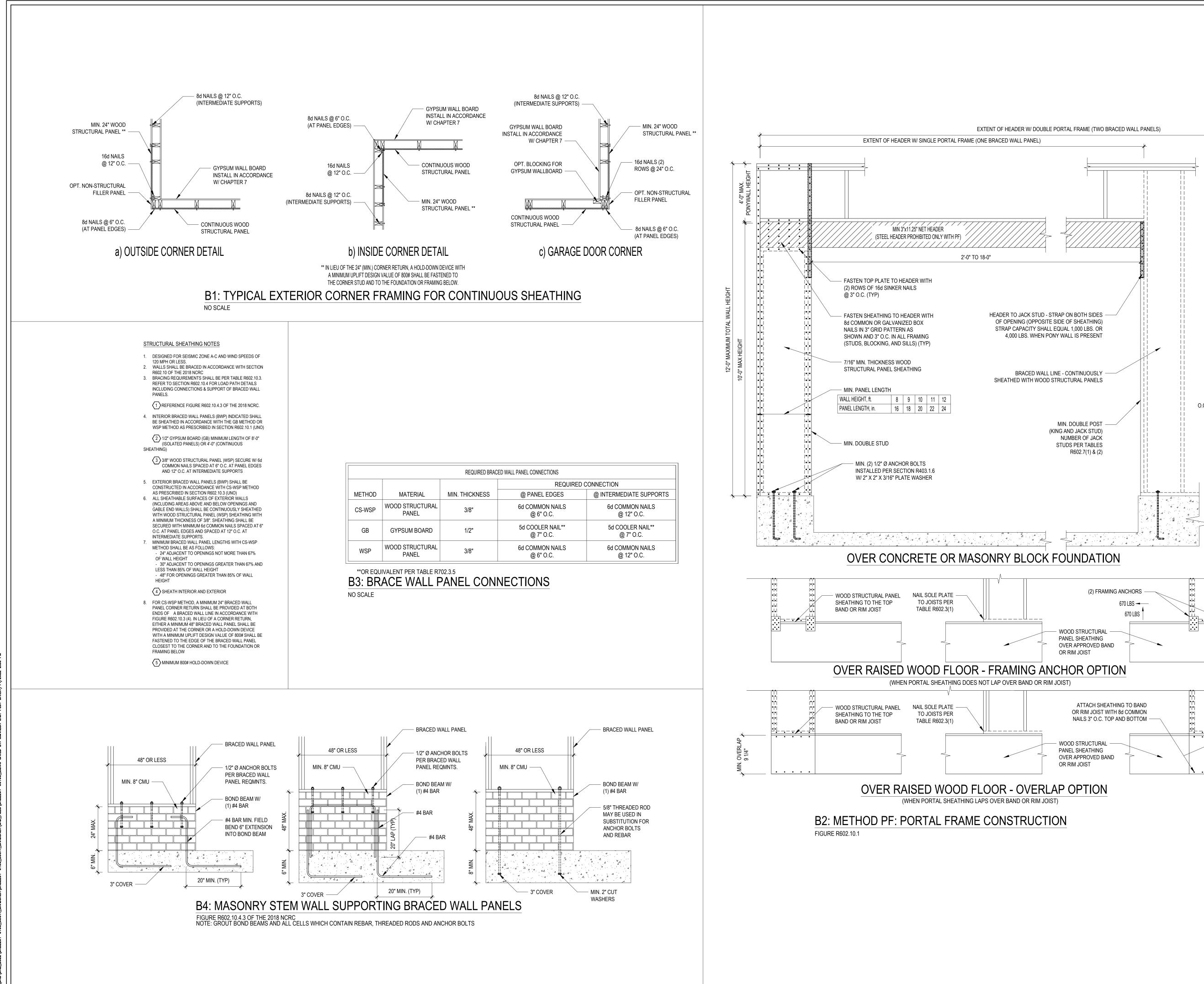


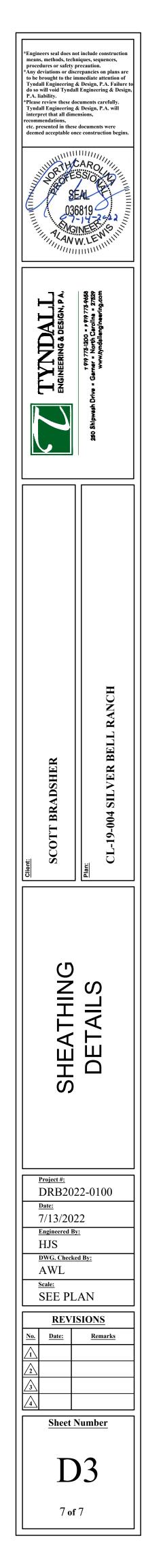


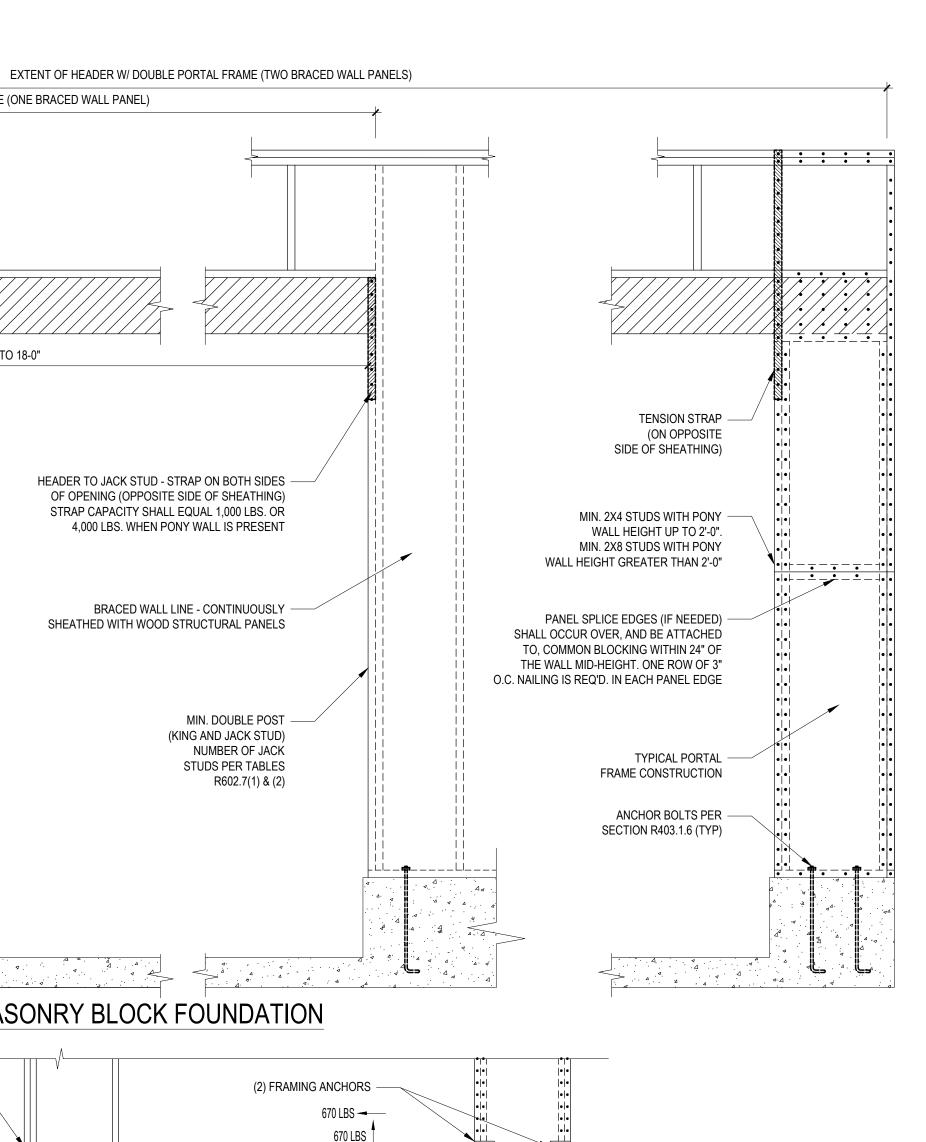












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WOOD STRUCTURAL

OVER APPROVED BAND

PANEL SHEATHING

OR RIM JOIST

ATTACH SHEATHING TO BAND

OR RIM JOIST WITH 8d COMMON

NAILS 3" O.C. TOP AND BOTTOM

WOOD STRUCTURAL

PANEL SHEATHING

OR RIM JOIST

OVER APPROVED BAND