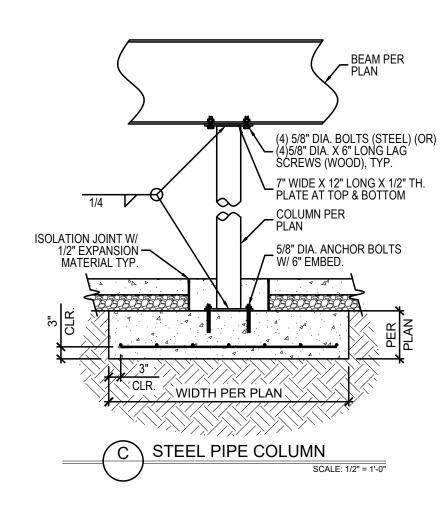
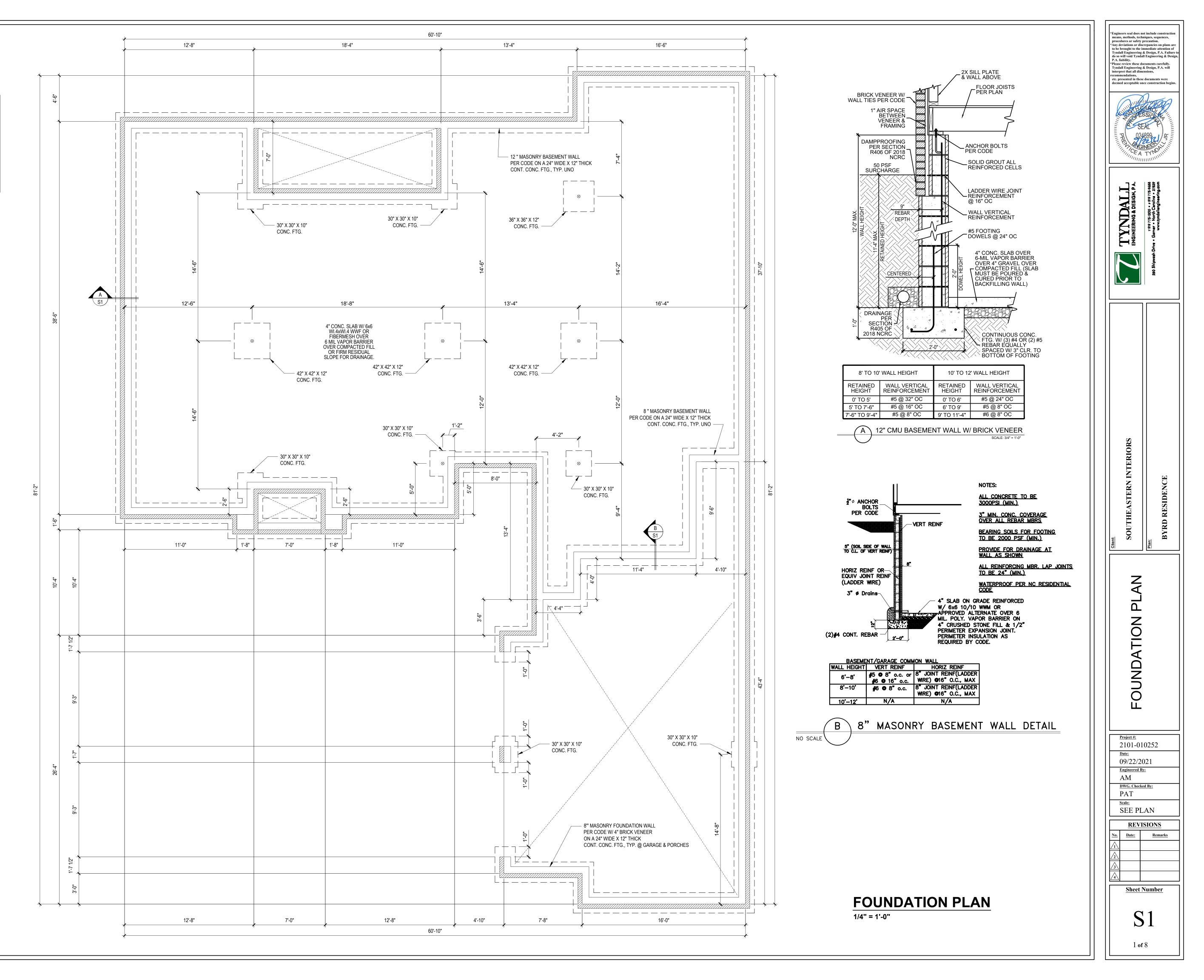
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
	~ /	· · · ·	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	L/180		
ATTIC (no access)	10 5 L/240 L			
EXTERNAL BALCONY	40	L/240		
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

STRUCTURAL NOTES:

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 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)
- 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).
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 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.
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 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.
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 14) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.4 OF THE 2018 IRC.
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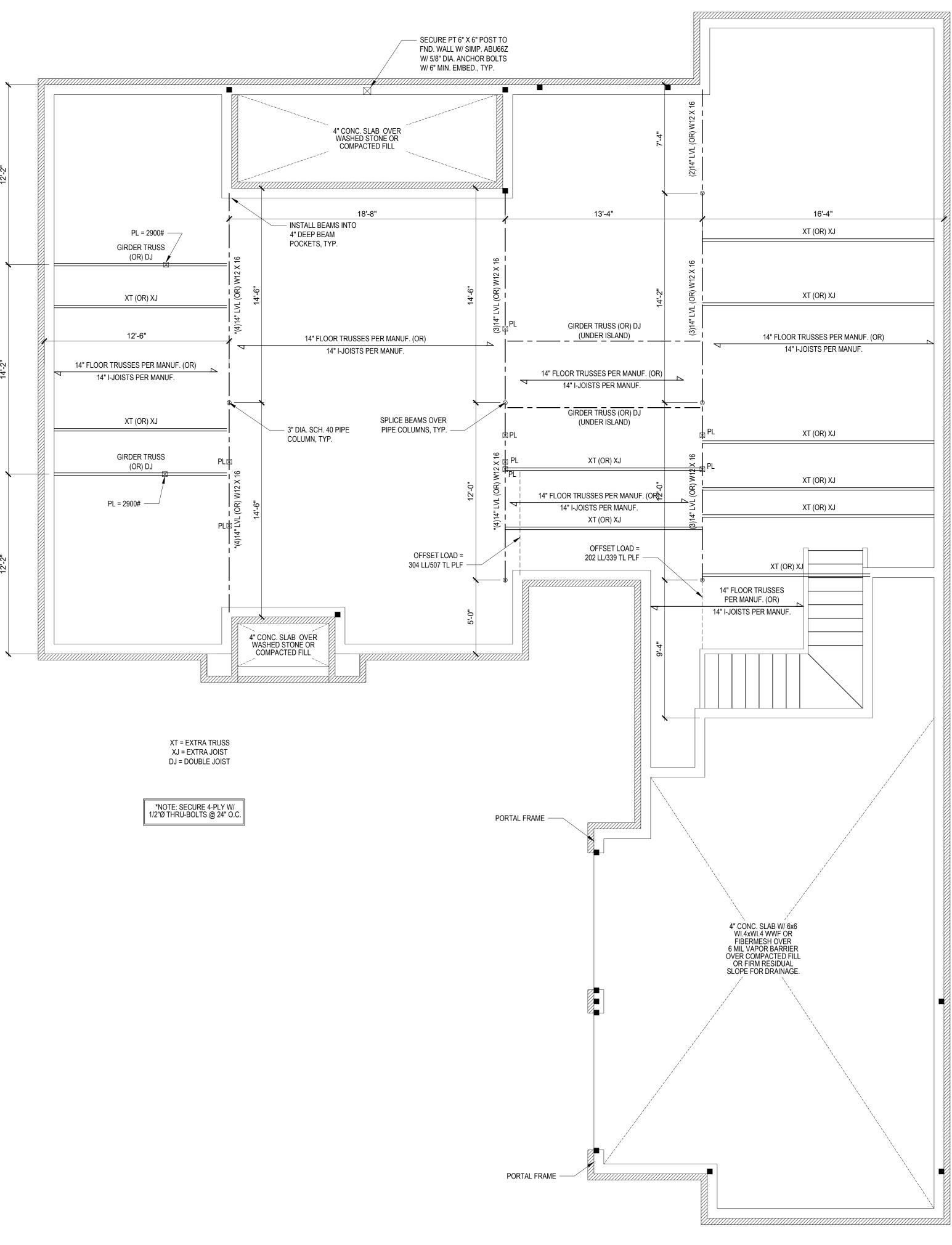




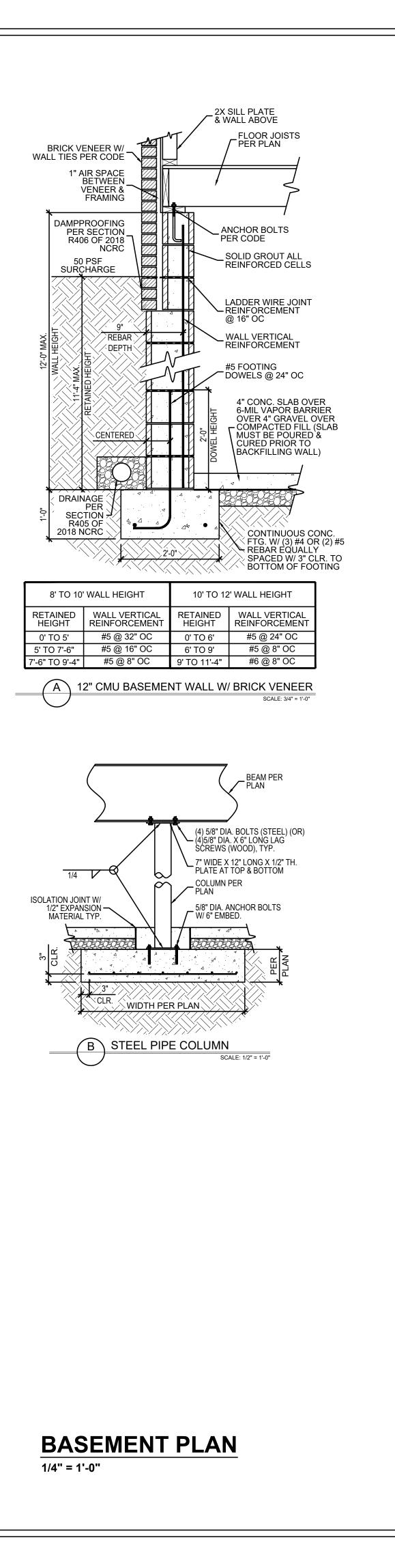
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	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
	(1 01)	(1.01.)	LL	TL
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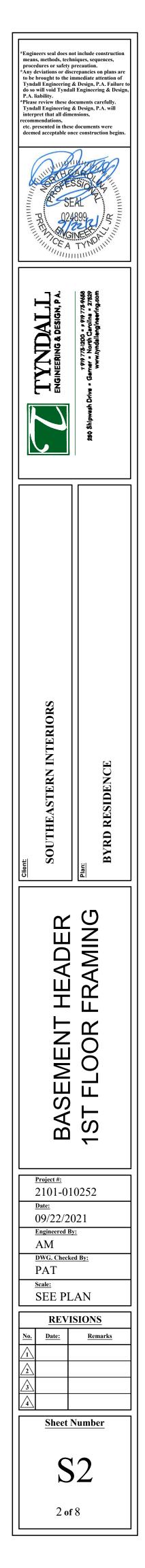
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	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	CTION
	(- /	(-)	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20	L/240	L/180	
ATTIC (no access)	10	L/180		
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED ON 120 MPH (EXPOSURE B)			
SEISMIC	BASED ON SEISMIC ZONES A, B & C			

BWL 1

BWL 2

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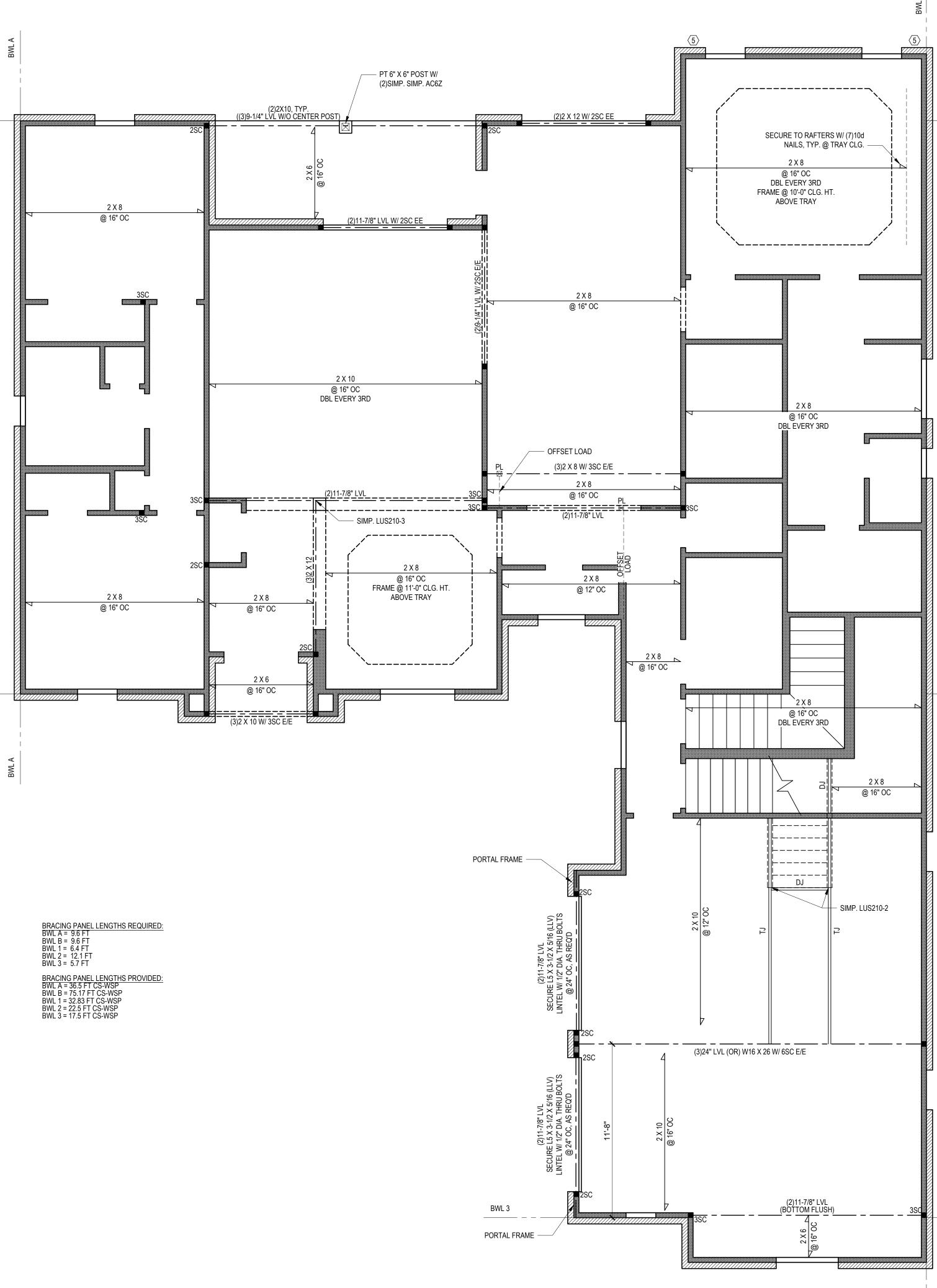
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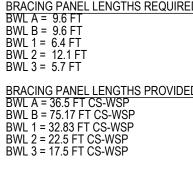
- 1) DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR
- LESS. 2) WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 OF
- THE 2018 NCRC. 3) BRACING REQUIREMENTS SHALL BE PER TABLE R602.10.3.
- REFER TO SECTION R602.10.4 FOR LOAD PATH DETAILS INCLUDING CONNECTIONS & SUPPORT OF BRACED WALL PANELS.
- (1) 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 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 ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION 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.
- 7) 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
- $\langle 4 \rangle$ SHEATH INTERIOR & EXTERIOR

WALL HEIGHT

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, procedu *Any dev to be br Tyndall do so wi P.A. lial *Please r Tyndall interpro- recomme etc. pre- deemed	*Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution. *Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to do so will void Tyndall Engineering & Design, P.A. liability. *Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.					
	L X L VILLALLALLAL	7 919 775-1200 = # 919 773-500 = # 919 773 4688 250 Shipwesh Drive = Garner = North Carolina = 27829 www.tyndallanginaering.com				
Client:	SOUTHEASTERN INTERIORS	Plan: BYRD RESIDENCE				
	1ST FLOOR HEADER	2ND FLOOR FRAMING				
2 <u>D</u> a	Project #: 2101-010252 Date: 00/22/2021					
09/22/2021 Engineered By: AM DWG. Checked By:						
PAT <u>SEE PLAN</u>						
<u>No.</u>	REVISIONS					
$\begin{array}{c} 1 \\ \hline 2 \\ \hline 3 \\ \end{array}$						
	Sheet 1	Number				
	<u>Sheet Number</u>					
3 of 8						

BWL 1 _____

> FIRST FLOOR PLAN 1/4" = 1'-0"

BWL 3

BWL 2

____ __ ___

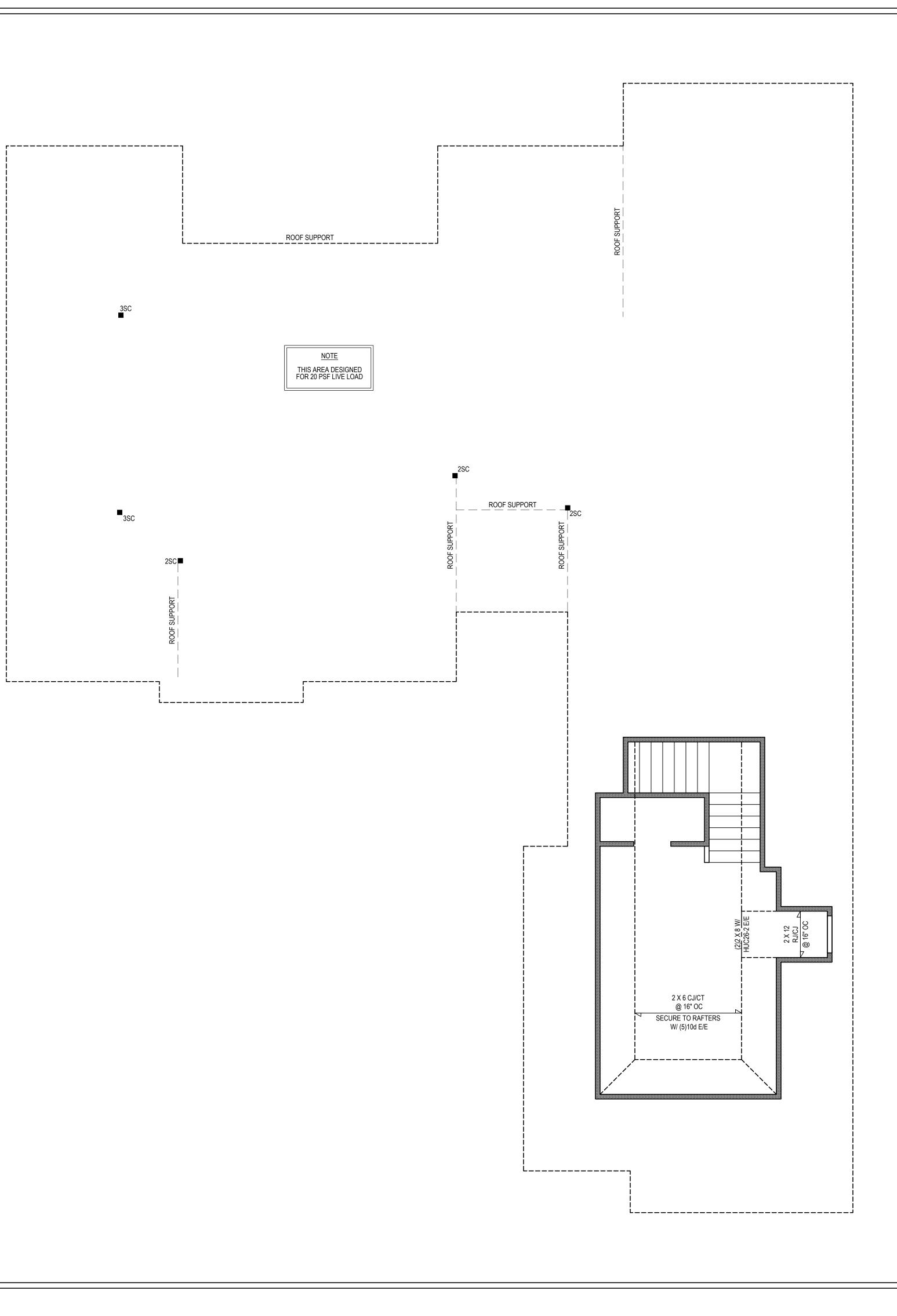
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
	(- /	(-)	LL	TL
FLOOR (primary)	40	10	L/360	L/240
FLOOR (secondary)	40	10	L/360	L/240
ATTIC (w/ storage)	20 10 L/240		L/240	L/180
ATTIC (no access)	10	5	L/240	L/180
EXTERNAL BALCONY	40	10	L/360	L/240
ROOF	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND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

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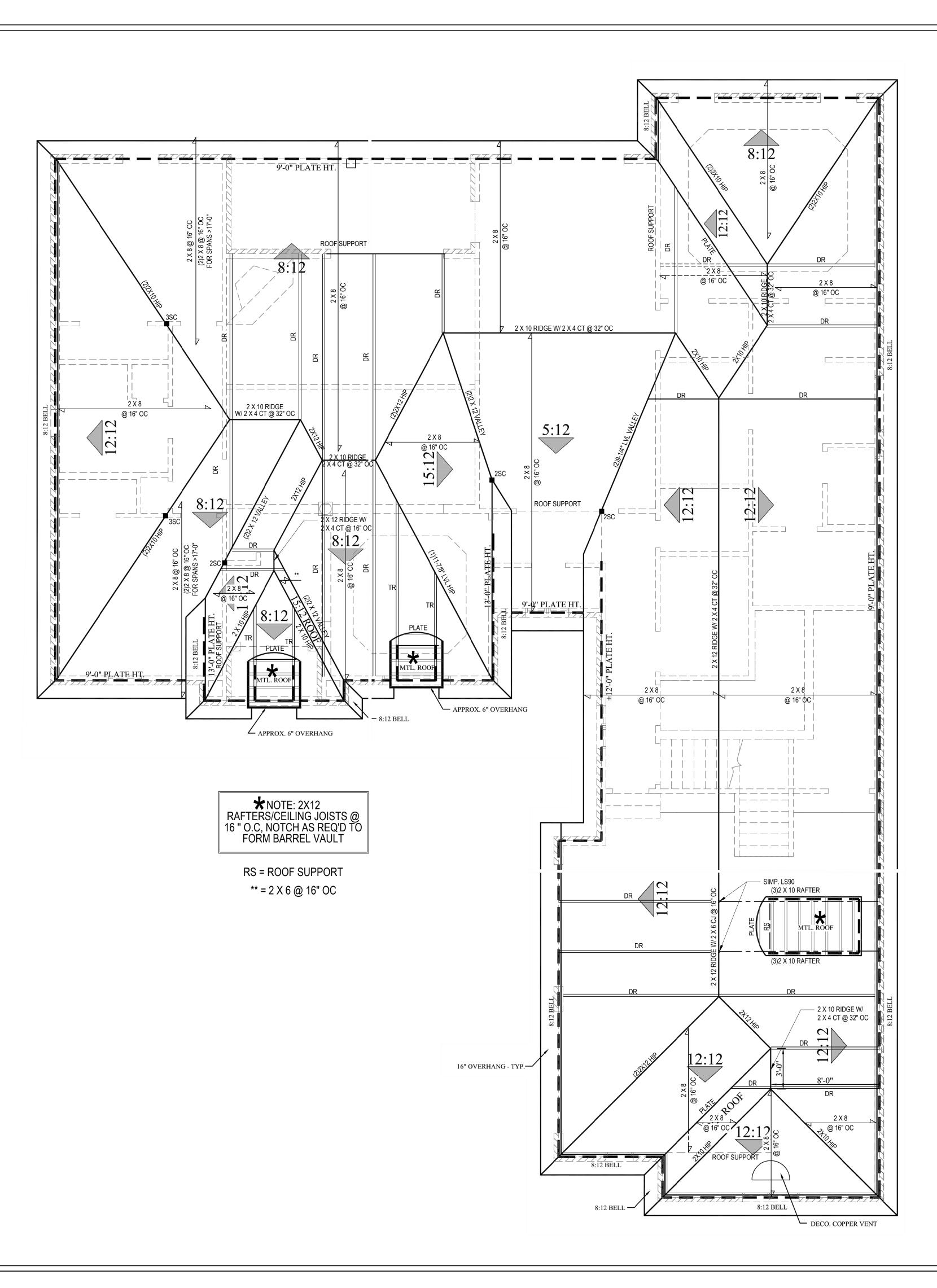
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TYNDALL Engineering & design, p a.	7 919 773-1200 = # 919 773-9668 250 Shipwash Drive = Garner = North Carolina = 27829 www.tyndallangineering.com				
LOOR HEADER SOUTHEASTERN INTERIORS	R. CLG. FRAMING BYRD RESIDENCE				
Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц Ц					
09/22/2021 Engineered By: AM DWG. Checked By: PAT SEE PLAN					
REVISIONS No. Date: Remarks 1					
S 4 of	-				

SECOND FLOOR PLAN

1/4" = 1'-0"



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TYNDALL ENGINEERING & DESIGN, P.A. 250 Shipwash Drive - Garner - North Carclina - 27829 www.syndallengineering.com					
Client: SOUTHEASTERN INTERIORS	Plan: BYRD RESIDENCE				
$\begin{array}{c c} \hline Project \#: \\ \hline 2101-010252 \\ \hline Date: \\ \hline 09/22/2021 \\ \hline Engineered By: \\ \hline AM \\ \hline DWG. Checked By: \\ \hline PAT \\ \hline Scale: \\ SEE PLAN \\ \hline \hline \\ \hline SEE PLAN \\ \hline \hline \\ \hline $					
S	Sheet Number S 5 of 8				

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

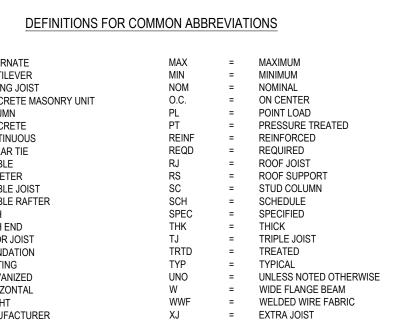
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A A	ONFORM TO THE LATEST REQUIREN OCAL CODES AND REGULATIONS.	MENTS OF "NORTH CA	ROLINA STATE 2018	RESIDENTIAL BUIL	DING				
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Ý WALL CLADDING SHALL BE DESIGI ROOF VALUES BOTH POSITIVE ANI 39.0 LBS/SQFT FOR ROOF PITCHES 36.0 LBS/SQFT FOR ROOF PITCHES 36.0 LBS/SQFT FOR ROOF PITCHES **MEAN ROOF HEIGHT 30'-0" OR LE **MEAN ROOF SLOPES FROM 2/12 THF •) FOR ROOF SLOPES FROM 2/12 THF •) FOR ROOF SLOPES FROM 2/12 THF •) PROVIDE CONTINUOUS SHEATHIN •) PROVIDE CONTINUOUS SHEATHIN •) UPLIFT LOADS GREATER THAN 500 •) REFER TO TABLE N1102.1 FOR PRE •) PSL COLUMNS DESIGNED WITH MA •) PROVIDE A MINIMUM OF 500# UPLI •) MAXIMUM MASONRY PEIR HEIGHT •) IT IS THE CONTRACTORS RESPON TYNDALL ENGINEERING & DESIGN • * • * • * • TABLE N1102.1 • * • * • * • * • * • * • * • * • * • * • * • * •	P PROOFING OR WATERPROOFING	PER SECTION 405 AND	D 406 OF NC BUILDI	NG CODE.				A.	THE DECK FLO ATTACH
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PSL COLUMNS DESIGNED WITH MA PSL COLUMNS DESIGNED WITH MA PROVIDE A MINIMUM OF 500# UPLI MAXIMUM MASONRY PEIR HEIGHT MAXIMUM MASONRY PEIR HEIGHT MABLE VALUE REQUIRED TO MAXIMUM MASONRY PEIR HEIGHT MABLE VALUE REQUIRED TO MAXIMUM MASONRY PEIR HEIGHT MATTER EVALUE REQUIRED TO MAXIMUM MASONRY PEIR HEIGHT MATTER AVEC. MAXIMUM MASONRY PEIR HEIGHT MABLE VALUE REQUIRED TO MAXIMUM MASONRY PEIR HEIGHT MAXIMUM MASONRY PEIR HEIGHT MATTER EVALUE REQUIRED TO MAXIMUM MASONRY PEIR HEIGHT MATTER AVEC. MERCONRY MASONRY PEIR HEIGHT MATTER AVEC. MERCONRY MASONRY PEIR HEIGHT MATTER AVEC. MERCONRY MASONRY PEIR HEIGHT MATTER AVEC. MERCONRY MASONRY PEIR HEIGHT MATTER EVALUE REQUIRED TO MATTER EVALUE REQUIRED TO MATTER EVALUE REQUIRED TO MATTER AVEC. MERCONRY MASONRY PEIR HEIGHT MATTER AVEC. MERCONRY MASONRY P	THING PER SECTION 602.10.3 OF THE								
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D) MAXIMUM MASONRY PEIR HEIGHT 1) IT IS THE CONTRACTORS RESPON TYNDALL ENGINEERING & DESIGN IMATE FENESTRATION U-FACTOR SKYLIG U-FACTOR 3 0.35 0.55 4 0.35 0.55 5 0.35 0.55 5 0.35 0.55 0 R-VALUES ARE MINIMUMS OF THE INSULATION, 0 THE INSULATION, 0 THE FOOTING ORA SHALL EXTEND TO THE ADDED TO THE REQUIR 0 FOR MONOLITHIC SLABS, 0 FTHE FOOTING ORA SHALL EXTEND TO THE ADDED TO THE REQUIR 0 DELETED 1 BASEMENT WALL INSULATION, 10 FTHE FOOTING ORA SHALL EXTEND TO THE ADDED TO THE REQUIR 0 OR INSULATION SUFFICIE 1 DASEMENT WALL INSULATION SHEATHING, "15-3" M INSULATION PUB R 2 1 FOR MASS WALLS, THE SE 1 1 IN ADDITION TO THE EXEM PERMITTED TO BE SUB k 1 IN ADDITION TO THE EXEM PERMITTED TO BE SUB k 1 R-30 FHALE DECEMENTED OF THE ATTIC ROOF DO IN THE EAVIER REQUIRED D IN TABLE VALUE REQUIRED IN THE DEVALUE REQUIRED IN THE DEVALU	H MAXIMUM HEIGHT OF 9'-0" (U.N.O.	,		(UNO)					
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5 0.35 0.55 NO SCALE * TABLE N1102.* a. R-VALUES ARE MINIMUMS OF THE INSULATION.* a. R-VALUES ARE MINIMUMS OF THE INSULATION.* b. THE FENESTRATION UFAN (SHGC) COLUMN APPI c. "10/15" MEANS R-10 CONTI OR R-15 CAVITY INSUL d. FOR MONOLITHIC SLABS, OF THE FOOTING OR A SHALL EXTEND TO THE ADDED TO THE REQUIR c. e. DELETED f. BASEMENT WALL INSULAT g. OR INSULATION SUFFICIENT h. THE FIRST VALUE IS CAVIT SHEATHING.*15-3" NSULATION SUFFICIENT h. THE FIRST VALUE IS CAVIT SHEATHING.*15-4" i. FOR MASS WALLS, THE SE i. FOR MASS WALLS, THE SE i. NADDITION TO THE EXEM PERMITTED TO BE SUB k. IN ADDITION TO THE EXEM PERMITTED TO BE SUB i. R. ADDITION TO THE EXEM PERMITTED TO BE SUB i. R. ADDITION TO THE EXEM PERMITTED TO BE SUB i. R. ADDITION TO THE EXEM PERMITTED TO BE SUB i. R. ADDITION TO THE EXEM PERMITTED TO BE SUB i. R. ADDITION TO THE EXEM PERMITTED TO BE SUB i. R. ADDITION TO THE EXEM PERMITTED TO BE SUB i. R. ADDITION TO THE EXEM PERMITTED TO BE SUB i. R. AD SHALL BE DEEMED TO AT THE EAVES. OTHERT OF THE EATERCLASS BATTSC	0.55 0.50 -	source 13 + 38 or 30 15	2.5 ⁿ 5/1	<u>13 or</u> <u>0 cont</u> <u>13 or</u> <u>0 cont</u> 19		0	5/13		
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OF THE INSULATION, b. THE FENESTRATION U-FAI (SHGC) COLUMN APPI c. <u>"1015" MEANS R-10 CONTI</u> OR R-15 CAVITY INSU d. <u>FOR MONOLITHIC SLABS,</u> OF THE FOOTING OR A SHALL EXTEND TO THE ADDED TO THE REQUIF e. <u>DELETED</u> f. BASEMENT WALL INSULAT g. OR INSULATION SUFFICIE h. THE FIRST VALUE IS CAVI SHEATHING. "15-3" M INSULATION PLUS R." I. R. ADDITION TO THE EXEM PERMITTED TO BE SUB L. R. ADDITION TO THE EXEM PERMITTED TO BE SUB I. R. AD FIRE EXEMPTION TO THE SUB I. R. AD FIRE EXEMPTION TO THE SUB I. R. AD FIRE AD S	02.1 CLIMATE ZONES 3-5 IIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. WHE								
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ADDED TO THE REQUIR e. <u>DELETED</u> f. BASEMENT WALL INSULAT g. OR INSULATION SUFFICIE h. THE FIRST VALUE IS CAVI SHEATHING. "15-3" M INSULATION SHEATHING. "15-3" M OF THE EXTERIOR, SI INSULATION SHEATHIN OF THE EXTERIOR, SI INSULATION TO THE EXEM PERMITTED TO BE SUB k. IN ADDITION TO THE EXEM PERMITTED TO BE SUB k. IN ADDITION TO THE EXEM PERMITTED TO BE SUB L. R-30 SHALL BE DEEMED TO AT THE EAVES. OTHERT OF THE ATTIC ROOF DE m. TABLE VALUE REQUIRED E n. R-19 FIBERGLASS BATISC	I CONTINUOUS INSULATED SHEATHING ON THE INTER Y INSULATION AT THE INTERIOR OF THE BASEMENT W SLABS, INSULATION SHALL BE APPLIED FROM THE INSU 3 OR A MAXIMUM OF 24" BELOW GRADE WHICHEVER I TO THE BOTTOM OF THE FOUNDATION WALL OR 24", W	WALL OR CRAWL SPACE WALL. SPECTION GAP DOWNWARD TO TI IS LESS. FOR FLOATING SLABS, II	HE BOTTOM NSULATION						BRICK (1
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i. FOR MASS WALLS, THE SE j. IN ADDITION TO THE EXEM PERMITTED TO BE SUB K. IN ADDITION TO THE EXEM PERMITTED TO BE SUB I. R-30 SHALL BE DEEMED IT AT THE EAVES.OTHERY OF THE ATTIC ROOF DE m. TABLE VALUE REQUIRED E n. R. 19 FIBERGLASS BATTS C	15+3" MEANS R-15 CAVITY INSULATION. PLUS R-3 INSU HEATHING IS NOT REQUIRED WHERE THE STRUCTURA IOR, SHALL BE SUPPLEMENTED WITH INSULATED SHE	RAL SHEATHING IS USED. IF STRU	CTURAL SHEATHING COVERS		1				
PERMITTED TO BE SUB k. IN ADDITION TO THE EXEM PERMITTED TO BE SUB L. R-30 SHALL BE DEEMED TO AT THE EAVES. OTHERN OF THE ATTIC ROOF DE m. TABLE VALUE REQUIRED E p. R. 19 FIBERGLASS BATTS C	LUS R-2.5 SHEATHING. THE SECOND R-VALUE APPLIES WHEN MORE THAN HA E EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF T			A U-FACTOR NO GREATER T	IAN 0.55 SHALL BE				
L R-30 SHALL BE DEEMED TO AT THE EAVES. OTHER OF THE ATTIC ROOF DE <u>m.</u> TABLE VALUE REQUIRED E <u>n.</u> R-19 FIBERGLASS BATTS C	SE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FEN LE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF T SE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FEN	ENESTRATION PRODUCT ASSEMB TWO GLAZED FENESTRATION PR	LIES WITHOUT PENALTY. ODUCT ASSEMBLIES HAVING						
n. R -19 FIBERGLASS BATTS C	MED TO SATISFY THE CEILING INSULATION REQUIRED DTHERWISE R-38 INSULATION IS REQUIRED WHERE AD DOF DECK.	MENT WHEREVER THE FULL HEIG	GHT OF UNCOMPRESSED R-30 R INSULATION MUST EXTEND	TO EITHER THE INSULATION	BAFFLE OR WITHIN 1 INCH				4" BRICK (TYP
	JIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS ATTS COMPRESSED AND INSTALLED IN A NOMINAL 2 : IN A 2X4 WALL IS NOT DEEMED TO COMPLY. FFTING THE MINIM IM MASS WALL SPECIFIC HEAT COL	2 × 6 FRAMING CAVITY IS DEEMED	TO COMPLY. FIBERGLASS BA	ATTS RATED R-19 OR HIGHER	COMPRESSED				
U. DADEMENT WALL MEETING	EETING THE MINIMUM MASS WALL SPECIFIC HEAT CO	USE NEW INCOMENT MAY USE	I INDO WALL R-VALUE AS		<u></u>				

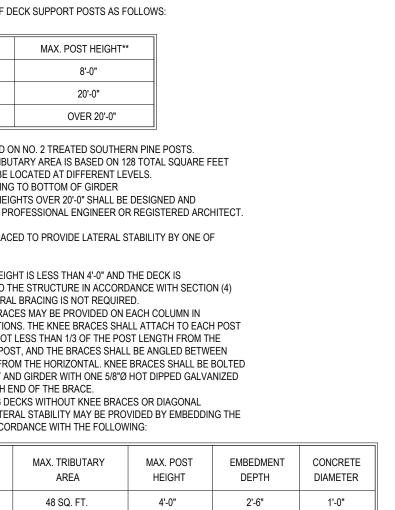
PRENTICE TYNDALL LAST PLOT DATE:9/22/2021 3:53 PM ä SAVED EDWG BB-2200\CAD\ PLA WEAVER MICHAEL 1 0252 PROJE STRUCTURAL ENG\2021 RESIDENTIAL ŝ

CATHEDRAL CEILINGS SHALL HAVE A 1^{*} MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

NO SCALE

ATTIC VENTILATION CALCULATION

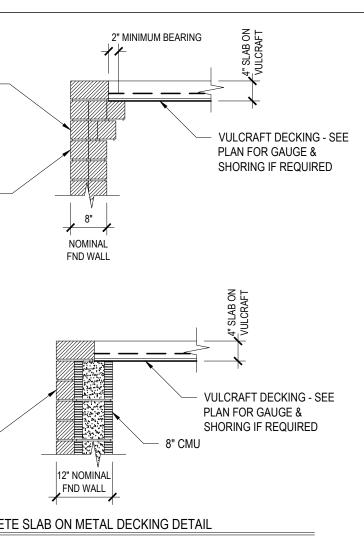


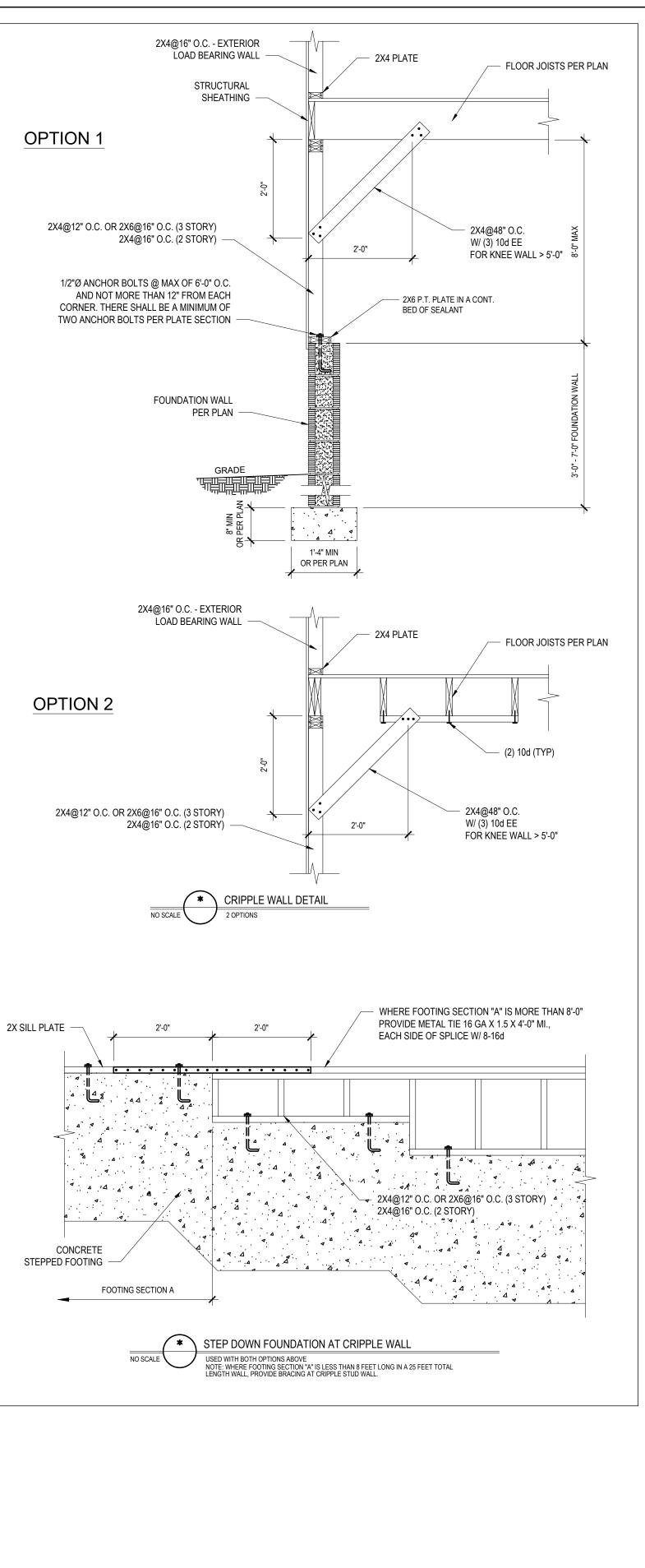


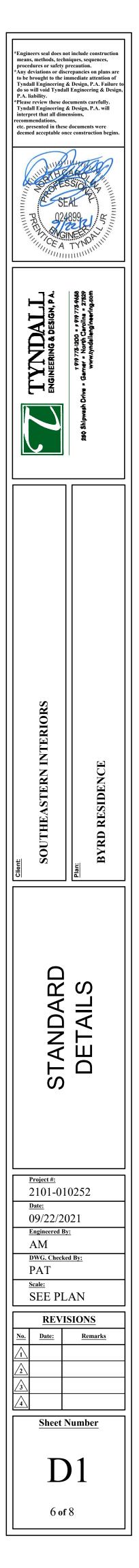
1'-8"

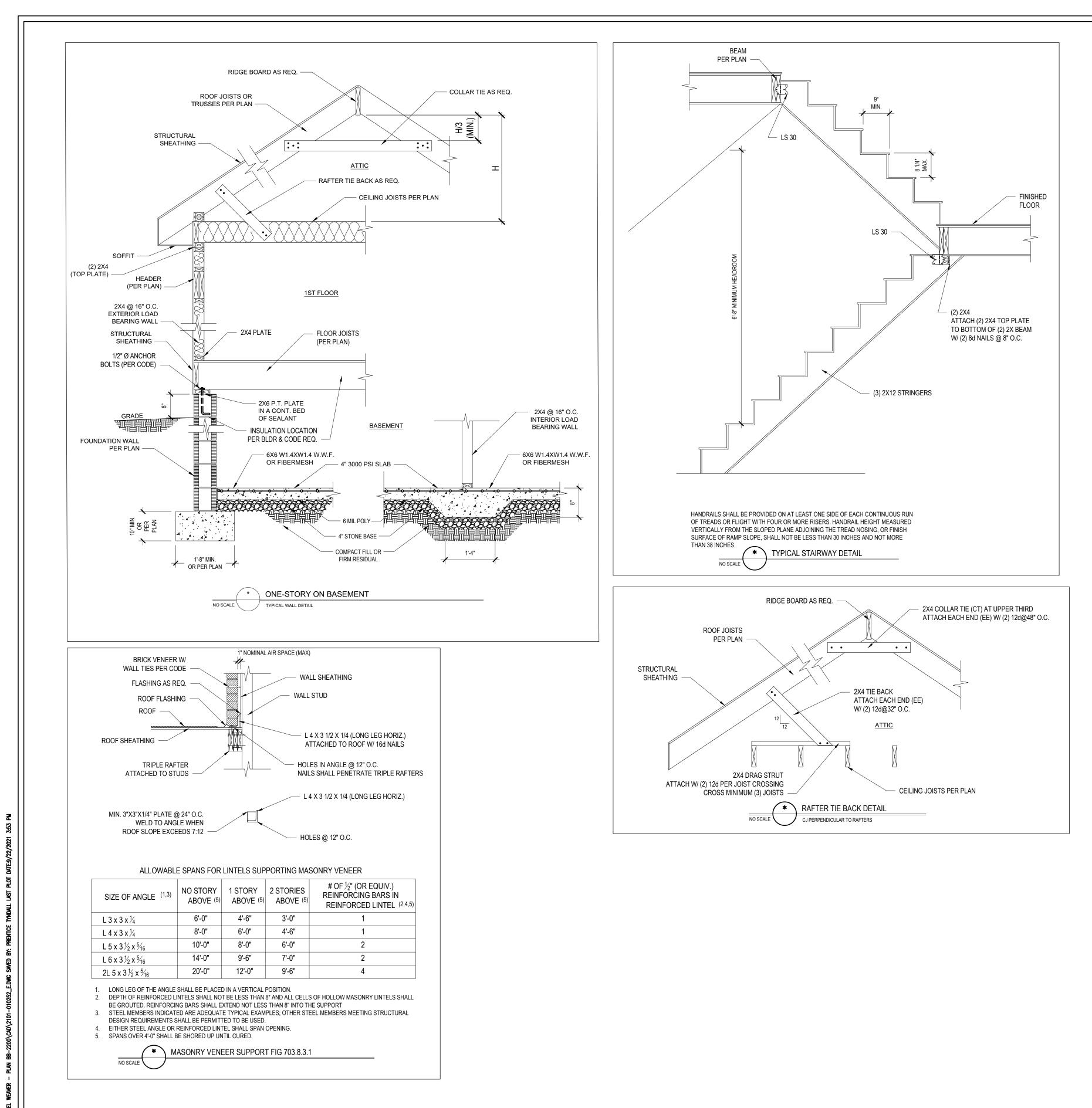
	120 SQ. FT.	6'-0"	3'-6"	
ГІС	AL CROSS BRACING MAY B	E PROVIDED IN TWO)	
CU	LAR DIRECTIONS FOR FREE	ESTANDING DECKS (OR PARALLEL	
СТ	URE AT THE EXTERIOR COL	UMN LINE FOR ATT	ACHED DECKS.	
AL	L BE ATTACHED TO THE PO	STS WITH ONE 5/8"Ø	HOT	

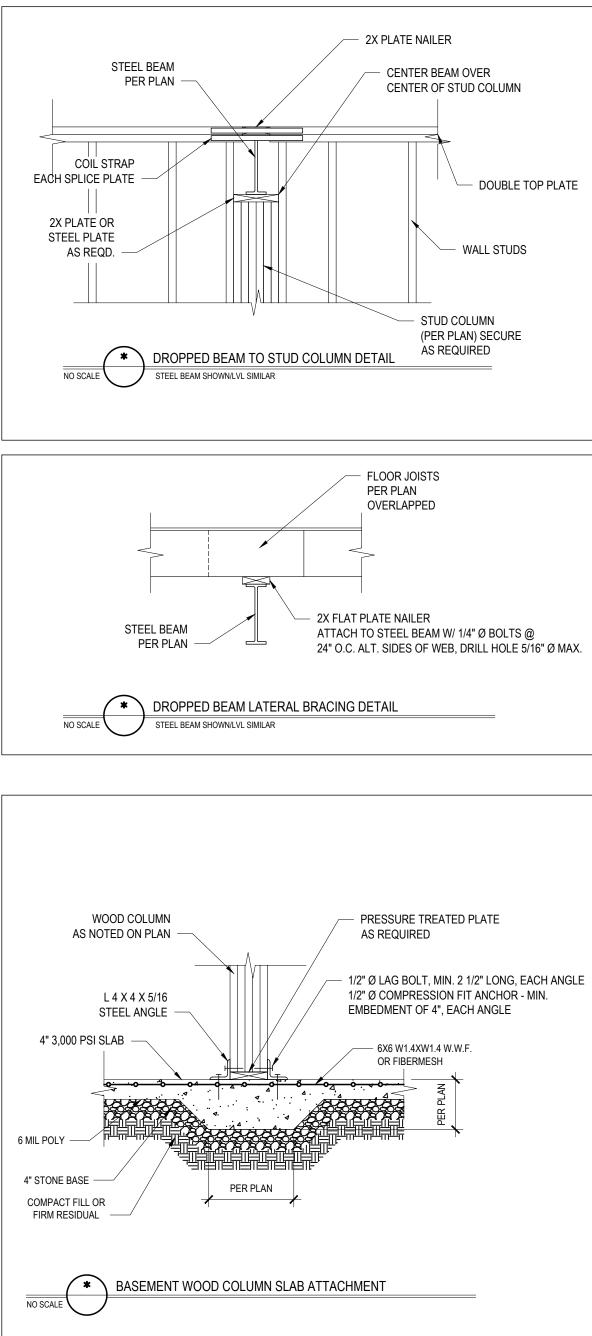
IZED BOLT AT EACH END OF EACH BRACING MEMBER. LES IN COASTAL REGIONS, SEE CHAPTER 46.











Procedures or safety precaution. *Any deviations or discrepancies on plans are to be brought to the immediate attention of Tyndall Engineering & Design, P.A. Failure to be so will void Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins. UNIT PROVIDE THE PR	
Client: SOUTHEASTERN INTERIORS Dan: BYRD RESIDENCE	
STANDARD DETAILS	
Project #: 2101-010252 Date: 09/22/2021 Engineered By: AM DWG. Checked By: PAT Scale: SEE PLAN <u>REVISIONS</u> <u>No. Date: Remarks</u> <u>1</u> <u>2</u> <u>3</u> <u>3</u> <u>4</u> <u>Sheet Number</u> D2 7 of 8	

*Engineers seal does not include

