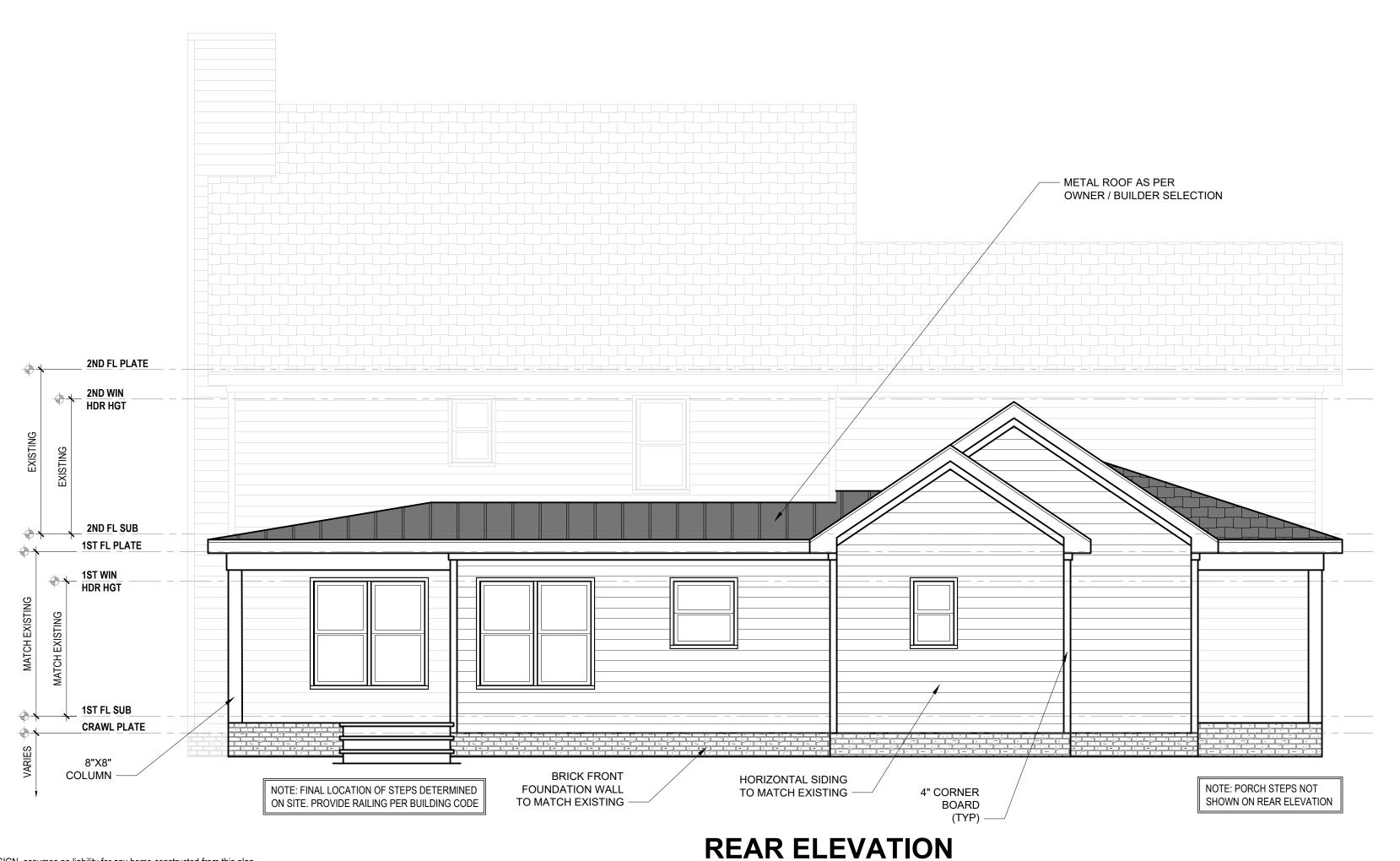
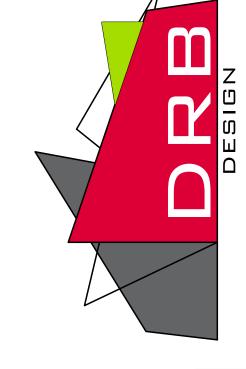
553 BUMPAS CREEK ACCESS



1/4" = 1'-0"

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07/14/2025

DESIGNED BY

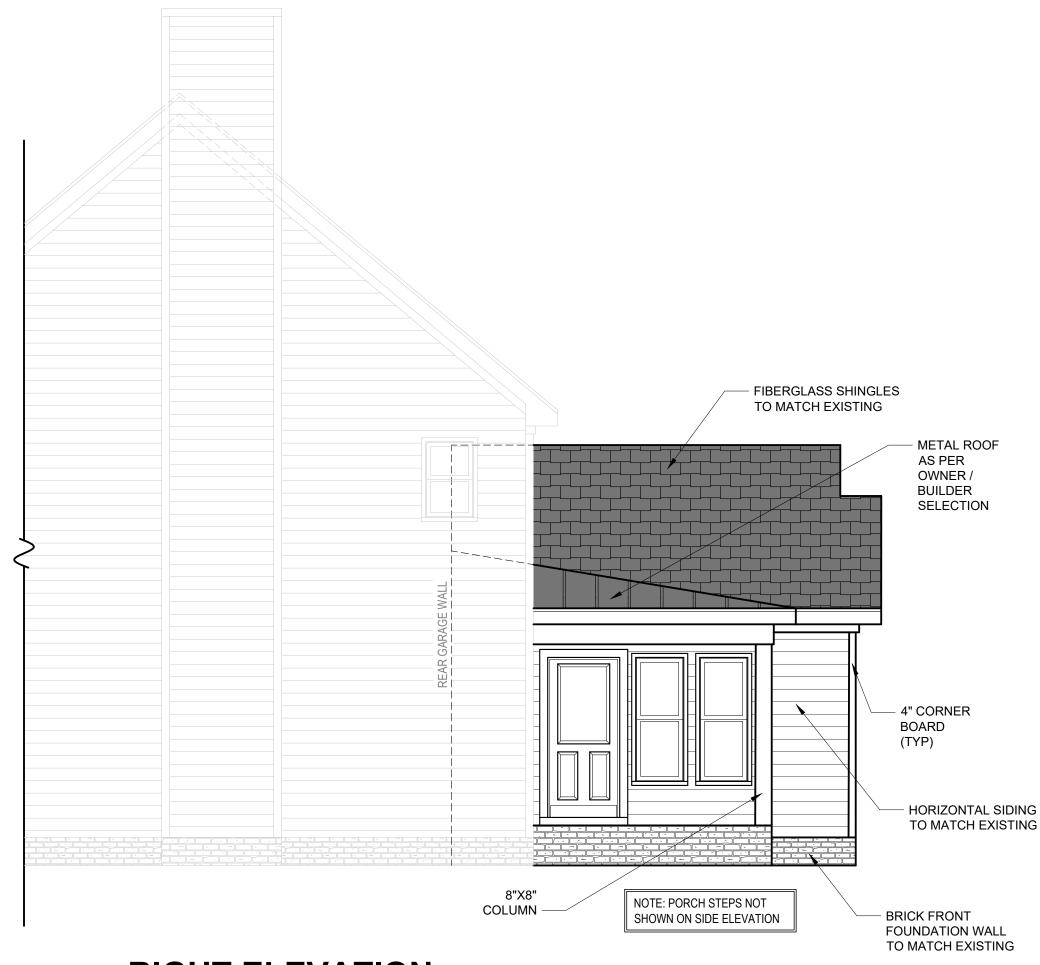
Smith Woodworks, Inc.
1607 Clayhold Rd.
Dunn NC, 28334
910-890-2923
sccbsmith@vahoo.com

of (

ELEVATIONS

SHEET #

553 BUMPAS CREEK ACCESS

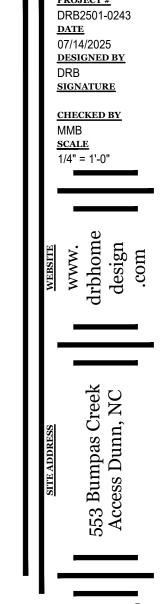


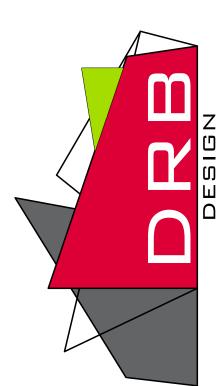
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1/4" = 1'-0"





Smith Woodworks, Inc.

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1607 Clayhold Rd.

Dunn NC, 28334

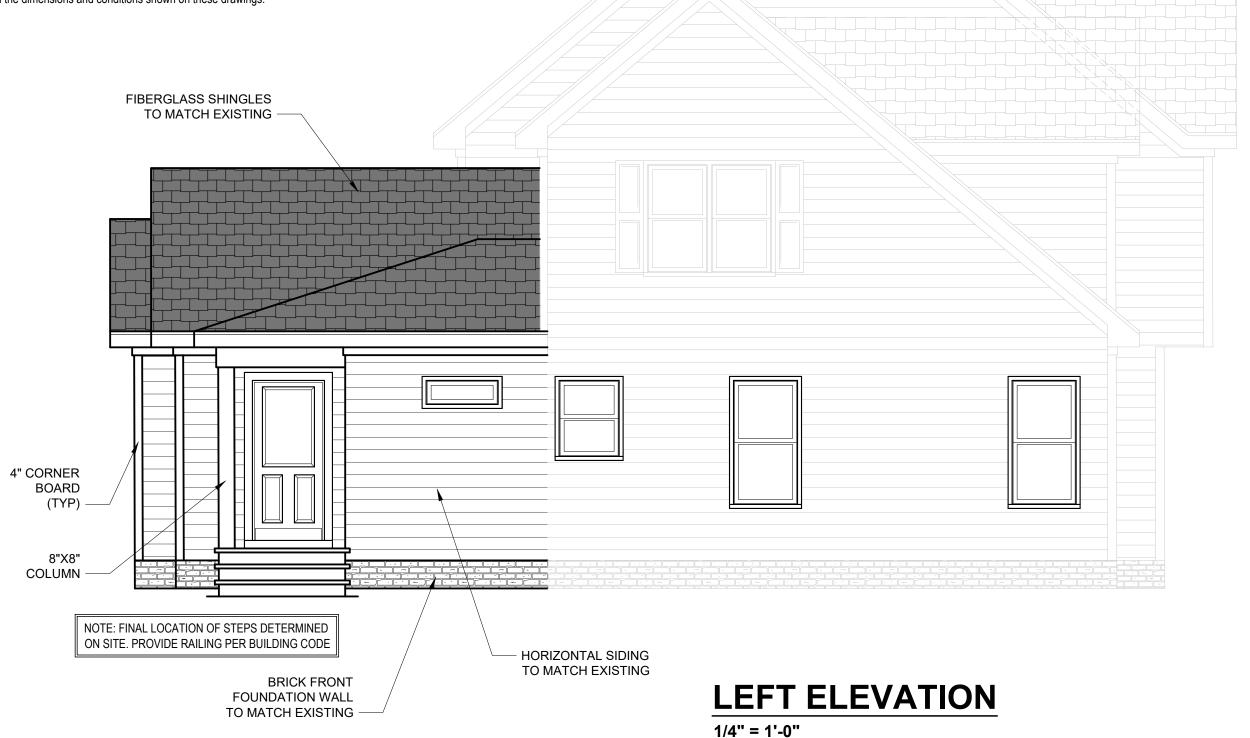
910-890-2923

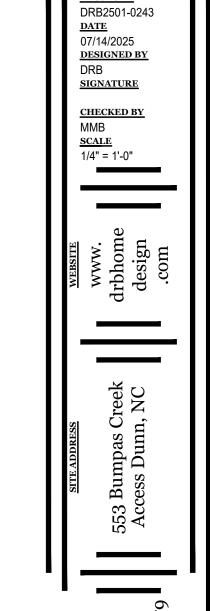
sccbsmith@yahoo.com

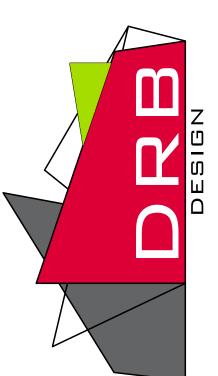
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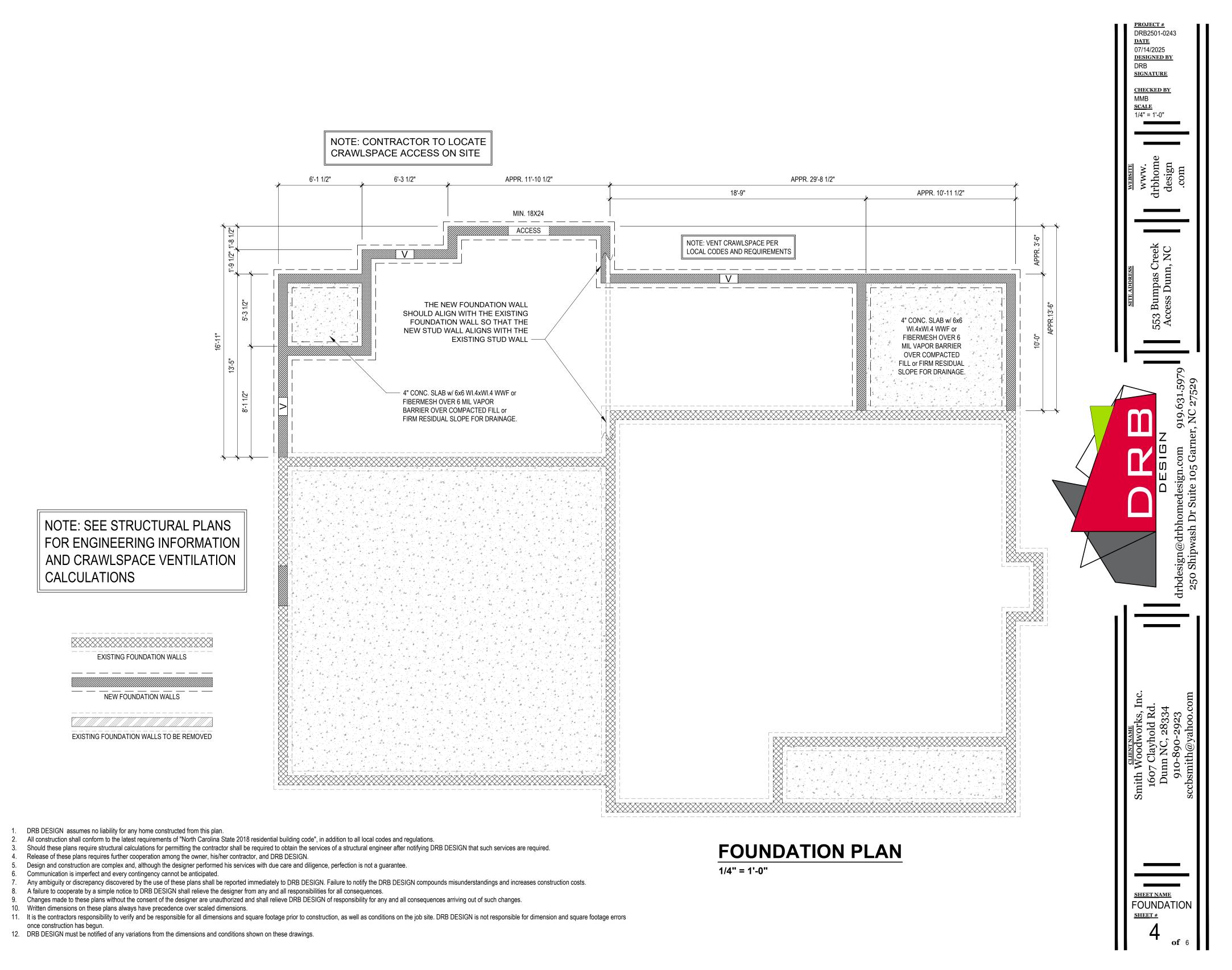


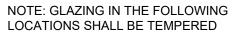
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ELEVATIONS

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- FIXED AND OPERABLE PANELS
 OF SWINGING, SLIDING, AND
 BI-FOLD DOORS
- 2. INDIVIDUAL FIXED OR OPERABLE PANELS IN THE SAME PLANE AS AN ADJACENT DOOR WHERE THE BOTTOM EDGE IS LESS THAN 60" ABOVE THE FLOOR AND IS WITHIN 24" OF EITHER SIDE OF THE DOOR IN A CLOSED POSITION.
- 3. FIXED OR OPERABLE PANEL THAT HAS AN EXPOSED AREA OF AN INDIVIDUAL PANE THAT IS LARGER THAN 9 SQ FT.
- 4. FIXED OR OPERABLE PANEL WHERE THE BOTTOM EDGE OF THE GLAZING IS LESS THAN 18" ABOVE THE FLOOR.
- 5. FIXED OR OPERABLE PANEL WHERE THE TOP EDGE OF THE GLAZING IS MORE THAN 36" ABOVE THE FLOOR
- 6. FIXED OR OPERABLE PANEL WHERE ONE OR MORE WALKING SURFACES ARE WITHIN 36", MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, OF THE GLAZING.
- 7. GLAZING IN WALLS CONTAINING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS, AND INDOOR OR OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE IS LESS THAN 60", MEASURED VERTICALLY, ABOVE ANY STANDING OR WALKING SURFACE.
- 8. GLAZING WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 36" ABOVE THE PLANE OF THE ADJACENT WALKING SURFACE OF STAIRWAYS, LANDINGS BETWEEN FLIGHTS OF STAIRS, AND RAMPS
- 9. GLAZING ADJACENT TO THE LANDING AT THE BOTTOM OF A STAIRWAY WHERE THE GLAZING IS LESS THAN 36" ABOVE THE LANDING AND WITHIN A 60" HORIZONTAL ARC LESS THAN 180° FROM THE BOTTOM TREAD NOSING.

HEATED SQUARE FOOTAGE

UNHTD SQUARE FOOTAGE

795

1328

110

142

1470

once construction has begun.

12. DRB DESIGN must be notified of any variations from the dimensions and conditions shown on these drawings.

Addition Remodel

TOTAL HEATED

Laundry Porch

TOTAL SQ FT

TOTAL UNHEATED

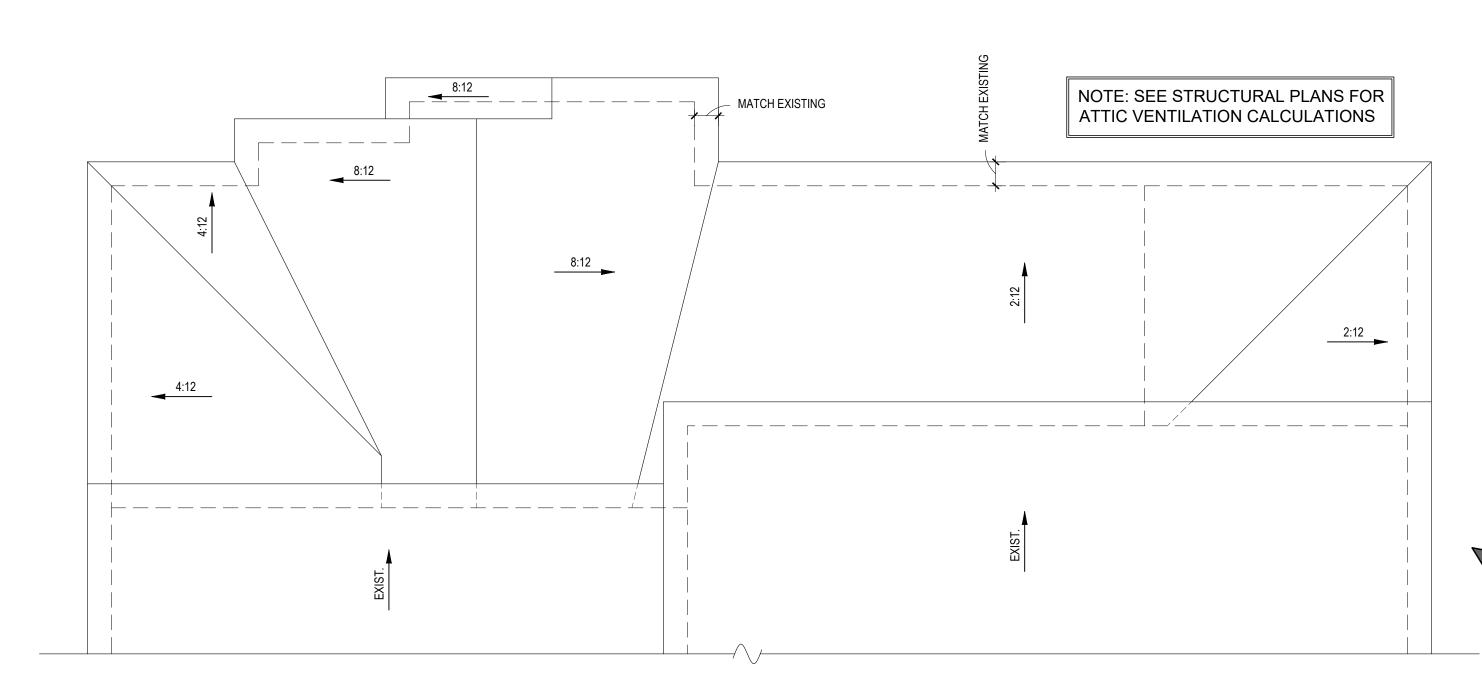
Dining Porch

DRB SIGNATURE NOTE: EMERGENCY AND ESCAPE RESCUE OPENINGS SHALL HAVE A MINIMUM SEE ELEVATIONS FOR ALL EXTERIOR WALLS ALL ANGLED WALLS NET CLEAR OPENABLE AREA OF 4 SQUARE FEET. THE MINIMUM NET CLEAR ARE 45° UNO WINDOW HDR HGTS ARE 3 1/2" UNO CHECKED BY OPENING HEIGHT SHALL BE 22 INCHES. THE MINIMUM NET CLEAR OPENING NOTE: VERIFY WINDOW SILL HEIGHT CLEARANCE WIDTH SHALL BE 20 INCHES. EMEGENCY ESCAPE AND RESCUE OPENINGS MUST ABOVE TUBS AND COUNTERTOPS TO ALLOW FOR SCALE HAVE A MINIMUM TOTAL GLAZING AREA OF NOT LESS THAN 5 SQUARE FEET IN TRIM AND/OR BACKSPLASH 1/4" = 1'-0" THE CASE OF A GROUND FLOOR LEVEL WINDOW AND NOT LESS THAN 5.7 ALL DOORS ARE 6'-8" ALL INTERIOR WALLS ALL DIMENSIONS ARE SQUARE FEET IN THE CASE OF AN UPPER STORY WINDOW. MAXIMUM SILL FRAME TO FRAME TALL UNO ARE 3 1/2" UNO HEIGHT - 44" A.F.F. 6'-1 1/2" APPR. 11'-10 1/2" APPR. 10'-11 1/2" 6'-3 1/2" 18'-9" 5'-1" 6'-9 1/2" 8'-3 3/4" 1'-8" 5'-1 1/2" 6'-2 3/4" 4'-2 1/2" 4'-0" APPR. 6'-11 1/2" 2/0X3/2 8"X8" WH COLUMN DROPZONE 3/0X3/2 TWIN 2/8X5/2 Δ LND **PORCH** 3/0 **PORCH** 6'-9 1/2" - 8"X8" 6'-7" 4'-9 1/2" 5'-6" 3'-0" COLUMN 3/0 NOOK D SEAT 3/0 APPLIANCE SEE A-1 TWIN 2/8X5/2 CHARGING MW STATION 5'-7" ਨੇ [∞] 3'-9 1/2" 3'-7 3/4" 3'-11 1/2" 2'-10 1/4' 3/0 FR □ **COFFEE** REF 7 % 5'-7" 3'-11 1/2" 7'-0 1/4" 2'-0" 2'-2 3/4" 3'-2 1/2" RAISE EXISTING FLOOR IN NEW MASTER SUITE TO MATCH SITTING 2'-10 1/4" THE FINISHED FLOOR HEIGHT OF THE KITCHEN A-1 ANGLED CLOSET **DIMENSIONS MASTER** Ä. Ä. 15'-7" 5'-6" EXISTING WALLS ╌┝┸╳╳╳╱┲════┯╱╳╳╱┲════┯╱╱ EXISTING WALLS TO BE REMOVED FIRST FLOOR PLAN **NEW WALLS** Ĭ×xxxxxxxx======xxxxxxxxxxxxxxxxxxxXXXXX<u>===</u>₹ EXIST. 1/4" = 1'-0" EXIST. 1. DRB DESIGN assumes no liability for any home constructed from this plan. 2. All construction shall conform to the latest requirements of "North Carolina State 2018 residential building code", in addition to all local codes and regulations. Should these plans require structural calculations for permitting the contractor shall be required to obtain the services of a structural engineer after notifying DRB DESIGN that such services are required. Release of these plans requires further cooperation among the owner, his/her contractor, and DRB DESIGN. Design and construction are complex and, although the designer performed his services with due care and diligence, perfection is not a guarantee. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to DRB DESIGN. Failure to notify the DRB DESIGN compounds misunderstandings and increases construction costs. A failure to cooperate by a simple notice to DRB DESIGN shall relieve the designer from any and all responsibilities for all consequences. Changes made to these plans without the consent of the designer are unauthorized and shall relieve DRB DESIGN of responsibility for any and all consequences arriving out of such changes. 1ST FLOOR 10. Written dimensions on these plans always have precedence over scaled dimensions. SHEET # 11. It is the contractors responsibility to verify and be responsible for all dimensions and square footage prior to construction, as well as conditions on the job site. DRB DESIGN is not responsible for dimension and square footage errors

DRB2501-0243

07/14/2025 <u>DESIGNED BY</u>

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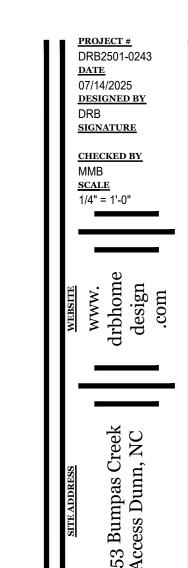


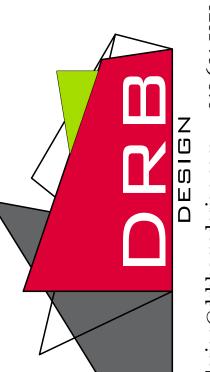
ROOF PLAN 1/4" = 1'-0"

NOTE: ANY ROOF PITCH 4:12 OR LESS SHALL BE PROPERLY WATERPROOFED PER BLDG. CODE

NOTE: OVERHANG DIMENSIONS ARE FROM FRAMING

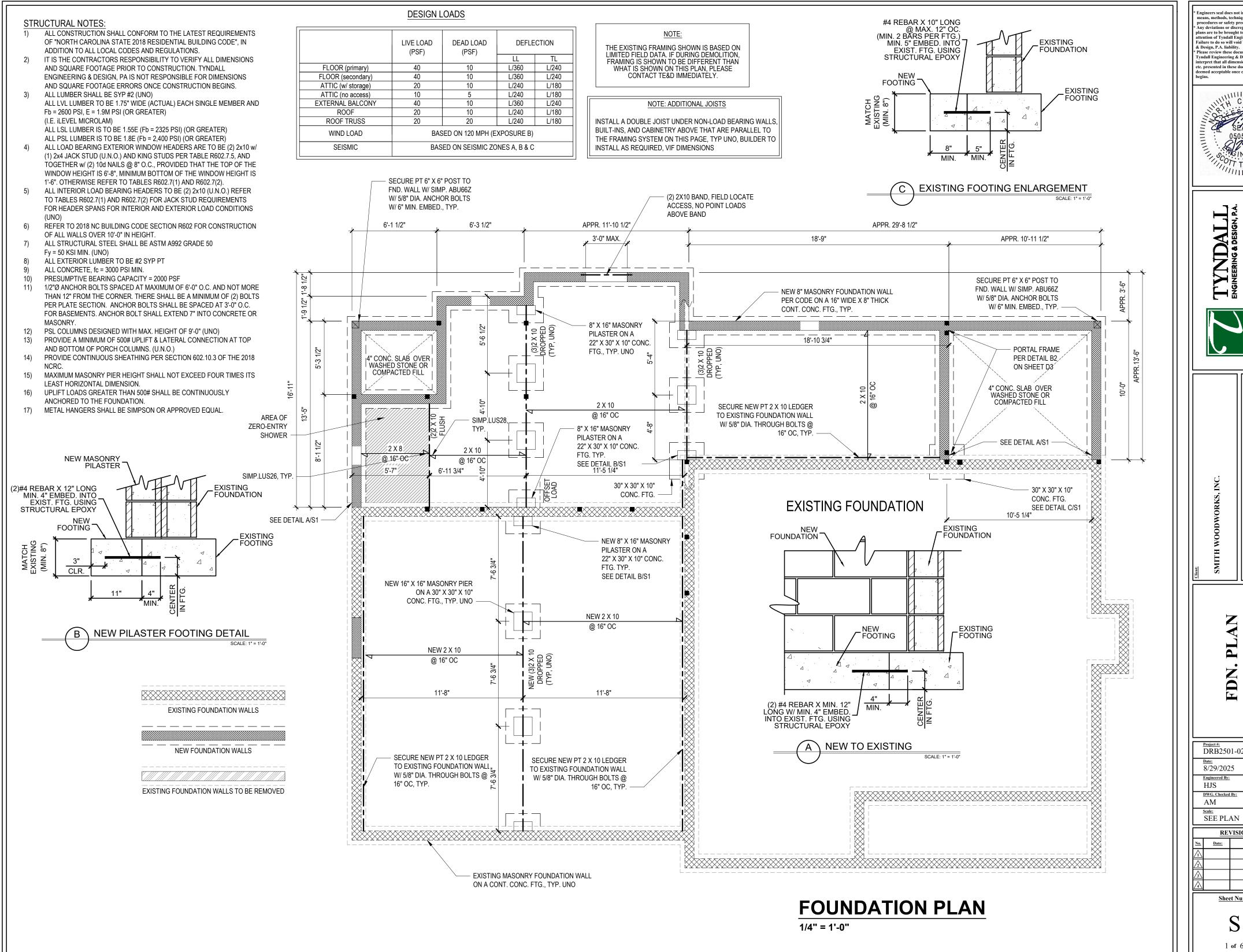
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ROOF

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ans, methods, techniques, sequences ocedures or safety precaution. Any deviations or discrepancies on Any deviations or distributions of 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.

Fyndall Engineering & Design, P.A. will terpret that all dimensions, reco tc. presented in these documents were



TYNDALL ENGINEERING & DESIGN, P.A.

B

DRB2501-0243 8/29/2025 HJS DWG. Checked By AM

REVISIONS

Sheet Number

S1

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BWL 1

1ST FLR. I
SUB FLR. F

DRB2501-0243

Date:
8/29/2025

Engineered By:
HJS

DWG. Checked By:
AM

Scale:
SEE PLAN

REVISIONS

No. Date: Rem

FIRST FLOOR PLAN

1/4" = 1'-0"

NEW WALLS

Sheet Number

S2

FRAMING BELOW.

(5) MINIMUM 800# HOLD-DOWN DEVICE

WALL HEIGHT

4 SHEATH INTERIOR & EXTERIOR

- 48" FOR OPENINGS GREATER THAN 85% OF

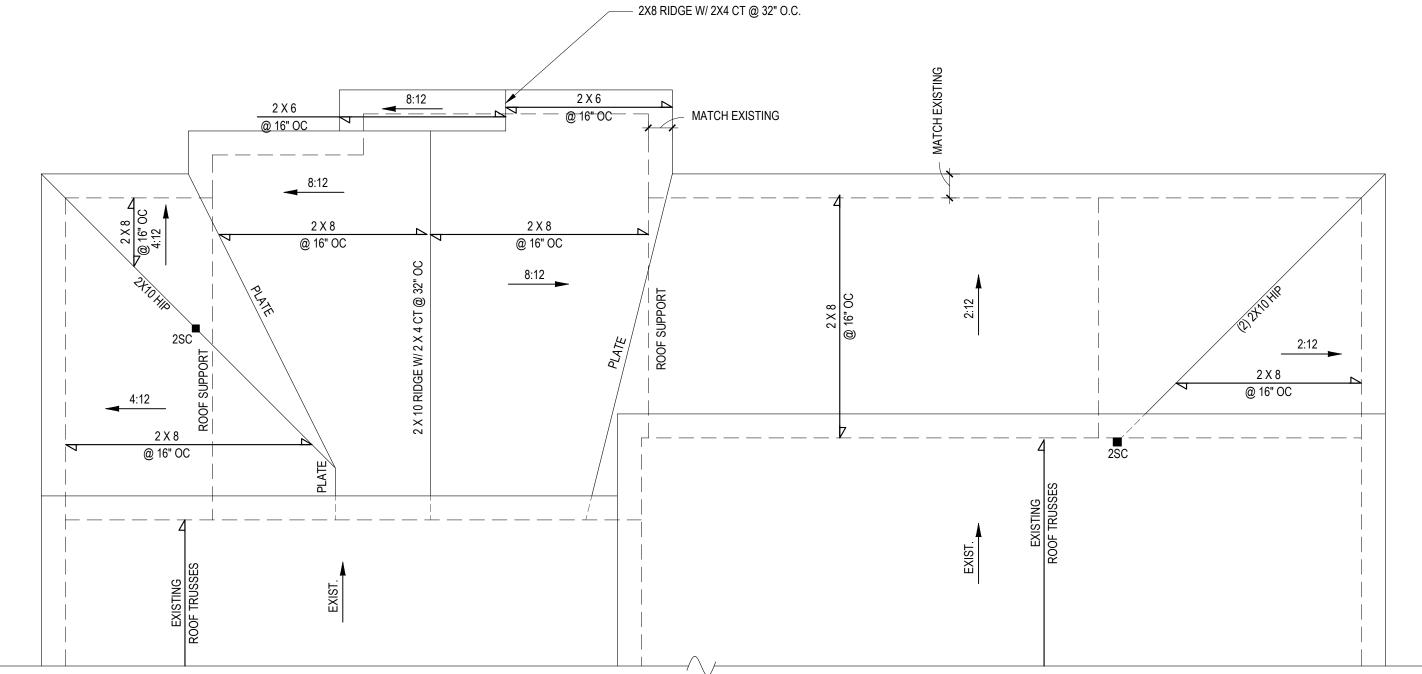
8) FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER

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

NOTE:

THE EXISTING FRAMING SHOWN IS BASED ON LIMITED FIELD DATA. IF DURING DEMOLITION, FRAMING IS SHOWN TO BE DIFFERENT THAN WHAT IS SHOWN ON THIS PLAN, PLEASE CONTACT TE&D IMMEDIATELY.

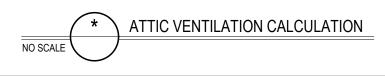


ROOF PLAN1/4" = 1'-0"

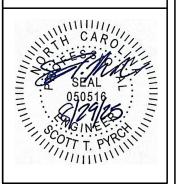
NOTE: SEE ARCHITECTURAL PLANS FOR ROOF PITCHES AND OVERHANG DIMENSIONS

675 SQ. FT. OF ATTIC / 300 = 2.25 SQ. FT. INLETS/OUTLETS REQUIRED

- CALCULATION BASED ON VENTILATORS USED AT LEAST 3'-0" ABOVE
 THE COMICE VENTS WITH THE BALANCE OF VENTILATION PROVIDED
 BY EAVE VENTS.
- CATHEDRAL CEILINGS SHALL HAVE A 1" MINIMUM CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.



* 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.



ENGINEERING & DESIGN, P.A.



Plun:
553 BUMPAS CREEK ACCESS

ROOF PLAN

Project #: DRB2501-0243	
<u>Date:</u> 8/29/2025	
Engineered By: HJS	
DWG. Checked By:	

SEE PLAN

	REVISIONS					
No.	Date:	Remarks				
<u>^2</u> \						
/3\						

Sheet Number

S3

STRUCTURAL NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLE	CTION
			LL	TL
ALL FLOORS	40	10	L/360	L/240
ATTIC (w/ walk up stairs)	30	10	L/360	L/240
ATTIC (pull down access)	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		BASED ON 120 MP	PH (EXPOSURE B)	
SEISMIC		SEISMIC ZONES A, B & C		

- MINIMUM ALLOWARI E SOIL BEARING PRESSURE = 2000 PSE
- CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE. (U.N.O.)
- MAXIMUM DEPTH OF UNBALANCED FILL AGAINST FOUNDATION WALLS TO BE LESS THAN 4'-0" WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION R404 OF 2018 NC BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT, WALL THICKNESS, SOIL TYPE, AND UNBALANCED BACKFILL HEIGHT
- ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 800 PSI, BASED ON 2x10) UNO. ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL
- ALL LVL LUMBER TO BE 1.75" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2600 PSI, E = 1.9M PSI (U.N.O.) ALL LSL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2325 PSI, E = 1.6M PSI (Ú.N.O. ALL PSL LUMBER TO BE 3.5" WIDE NOMINAL EACH SINGLE MEMBER AND Fb = 2400 PSI, E = 1.8M PSI (U.N.O.)
- ALL LOAD BEARING EXTERIOR HEADERS SHALL BE AT (2) 2x10. (U.N.O.) REFER TO TABLE R602.7(1) & (2) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS UNLESS SPECIFICALLY NOTED ON PLANS.
- ALL STRUCTURAL STEEL W-SHAPES (I-BEAMS) SHALL BE ASTM A992 GRADE 50. ALL STEEL ANGLES, PLATES, AND C-CHANNELS SHALL BE ASTM A36. ALL STEEL PIPE SHALL BE ASTM A53 GRADE B.
- STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO (2) LAG SCREWS (1/2"Ø x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOISTS ARE TOE NAILED TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.
- PROVIDE ANCHOR BOLT PLACEMENT PER SECTION 403.1 6: 1/2º/Ø ANCHOR BOLTS SPACED AT 6:-0" O.C. AND PLACED 12" FROM THE END OF EACH PLATE SECTION. ANCHOR BOLTS SHALL BE SPACED AT 3'-0" O.C. FOR BASEMENTS. ANCHOR BOLT SHALL EXTEND 7" INTO CONCRETE OR MASONRY. THE BOLTS SHALL BE LOCATED IN THE MIDDLE THIRD OF THE WIDTH OF THE PLATE. THERE SHALL BE A MINIMUM TWO ANCHOR BOLTS PER PLATE SECTION.
- FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE.
- WALL AND ROOF CLADDING VALUES:

**MEAN ROOF HEIGHT 30'-0" OR LESS

- WALL CLADDING SHALL BE DESIGNED FOR 28.0 POUNDS PER SQUARE FOOT (LBS/SQFT) OR GREATER POSITIVE AND NEGATIVE PRESSURE. ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS: 39.0 LBS/SQFT FOR ROOF PITCHES 0/12 TO 1.5/12 36.0 LBS/SQFT FOR ROOF PITCHES 1.5/12 TO 6/12 18.0 LBS/SQFT FOR ROOF PITCHES 6/12 TO 12/12
- FOR ROOF SLOPES FROM 2/12 THROUGH 4/12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER
- 14) REFER TO SECTION R602.3 FOR FRAMING OF ALL WALLS OVER 10'-0" IN HEIGHT
- 15) PROVIDE CONTINUOUS SHEATHING PER SECTION 602.10.3 OF THE 2018 NCRC.
- 16) UPLIFT LOADS GREATER THAN 500# SHALL BE CONTINUOUSLY ANCHORED TO THE FOUNDATION.
- 17) REFER TO TABLE N1102.1 FOR PRESCRIPTIVE BUILDING ENVELOPE THERMAL COMPONENT CRITERIA
- 18) PSL COLUMNS DESIGNED WITH MAXIMUM HEIGHT OF 9'-0" (U.N.O.)
- 19) PROVIDE A MINIMUM OF 500# UPLIFT & LATERAL CONNECTION AT TOP AND BOTTOM OF PORCH COLUMNS. (U.N.O.)
- 20) MAXIMUM MASONRY PEIR HEIGHT SHALL NOT EXCEED FOUR TIMES ITS LEAST HORIZONTAL DIMENSION.
- IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND SQUARE FOOTAGE PRIOR TO CONSTRUCTION. TYNDALL ENGINEERING & DESIGN, PA IS NOT RESPONSIBLE FOR DIMENSION OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.

DEFINITIONS FOR COMMON ABBREVIATIONS

ALT	=	ALTERNATE	MANUF	=	MANUFACTURER
CANT	=	CANTILEVER	MAX	=	MAXIMUM
CJ	=	CEILING JOIST	MIN	=	MINIMUM
CMU	=	CONCRETE MASONRY UNIT	NOM	=	NOMINAL
COL	=	COLUMN	O.C.	=	ON CENTER
CONC	=	CONCRETE	PL	=	POINT LOAD
CONT	=	CONTINUOUS	PT	=	PRESSURE TREATED
CT	=	COLLAR TIE	REINF	=	REINFORCED
DBL	=	DOUBLE	REQ'D	=	REQUIRED
DIA	=	DIAMETER	RJ	=	ROOF JOIST
DJ	=	DOUBLE JOIST	RS	=	ROOF SUPPORT
DR	=	DOUBLE RAFTER	SC	=	STUD COLUMN
DSP	=	DOUBLE STUD POCKET	SCH	=	SCHEDULE
EA	=	EACH	SPEC	=	SPECIFIED
EE	=	EACH END	TH	=	THICK
FJ	=	FLOOR JOIST	TJ	=	TRIPLE JOIST
FND	=	FOUNDATION	TRTD	=	TREATED
FTG	=	FOOTING	TSP	=	TRIPLE STUD POCKET
GALV	=	GALVANIZED	TYP	=	TYPICAL
HORIZ	=	HORIZONTAL	UNO	=	UNLESS NOTED OTHERWISE
HT	=	HEIGHT	W	=	WIDE FLANGE BEAM
JSC	=	JACK STUD	WWF	=	WELDED WIRE FABRIC
KS	=	KING STUD	XJ	=	EXTRA JOIST

POST SIZE	MAX. POST HEIGHT**
4 x 4	8'-0"
6 x 6	20'-0"
***	OVER 20'-0"

- MAXIMUM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET
- FROM TOP OF FOOTING TO BOTTOM OF GIRDER
- SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF
- THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION (4)
- B. 4 x 4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN AT A POINT NOT LESS THAN 1/3 OF THE POST LENGTH FROM THE TOP OF THE POST, AND THE BRACES SHALL BE ANGLED BETWEEN
- FOR FREESTANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL

POST SIZE	MAX. TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
4 x 4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
6 x 6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

TO THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE 2 x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE 5/8*Ø HOT

DIPPED GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER. FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.

SIMP, CS16 COIL STRAP

EACH SIDE OF BEAM

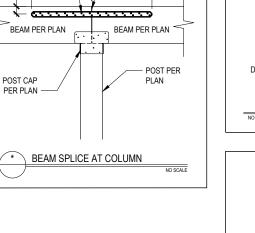
POST CAP

PER PLAN

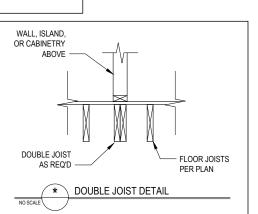
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BEAM PER PLAN

WALL, ISLAND, OR CABINETRY ABOVE			-
DOUBLE JOIST AS REQ'E		I	FLOOR JOIST PER PLAN
NO SCALE	DOUBLE OUT	OT DETAIL	



- BEAM SPLICE



STRUCTURAL SHEATHING

(3) 2X10 GIRDER OR PER PLAN

CRAWL SPACE

2'-6" MIN OR PER PLAN

DROPPED GIRDER DETAIL

GRADE

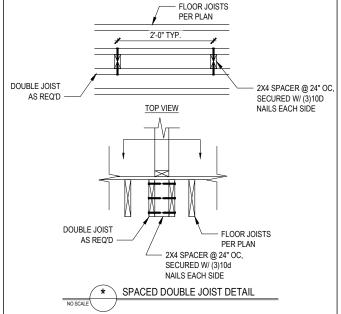
2X6 (MIN) TREATED SILL

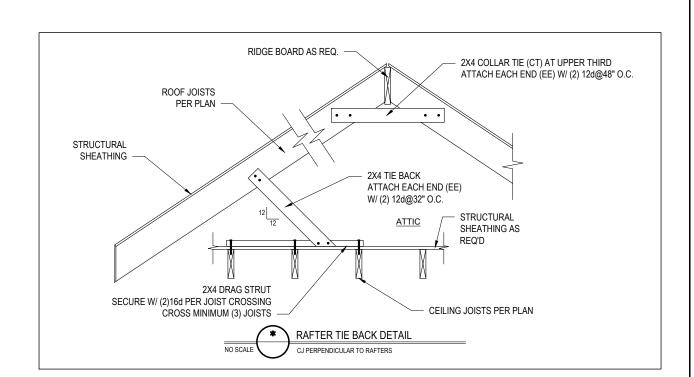
- FLOOR JOISTS PER PLAN

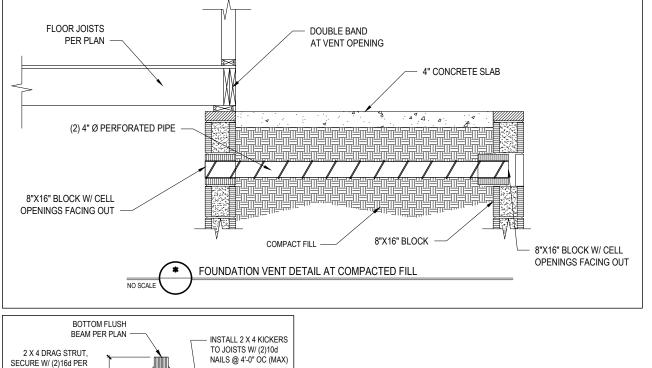
OVERLAP JOISTS

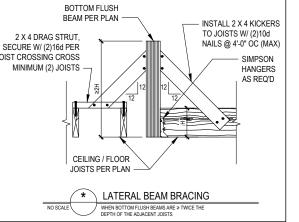
8" SOLID MASONRY CAP

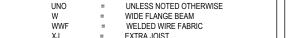
16"X16" MASONRY PIER OR PER PLAN











MAXIMUM HEIGHT OF DECK SUPPORT POSTS AS FOLLOWS:

***	OVER 20'-0"
6 x 6	20'-0"
4 x 4	8'-0"
POST SIZE	MAX. POST HEIGHT**

- THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. WHICH MAY BE LOCATED AT DIFFERENT LEVELS.
- DECKS WITH POST HEIGHTS OVER 20'-0" SHALL BE DESIGNED AND

- ABOVE. LATERAL BRACING IS NOT REQUIRED. BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST
- 45° AND 60° FROM THE HORIZONTAL, KNEE BRACES SHALL BE BOLTED TO THE POST AND GIRDER WITH ONE 5/8"Ø HOT DIPPED GALVANIZED BOLT AT EACH END OF THE BRACE.
- BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN ACCORDANCE WITH THE FOLLOWING:

4 x 4	48 SQ. FT.	4'-0"	2'-6"	1'-0
6 x 6	120 SQ. FT.	6'-0"	3'-6"	1'-8'

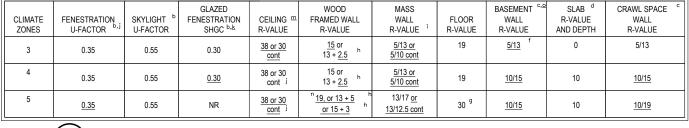


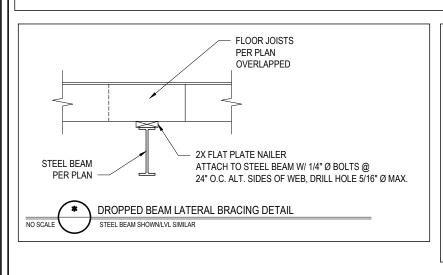
TABLE N1102.1 CLIMATE ZONES 3-5 NO SCALE

- R-VALUES ARE MINIMUMS. U-FACTORS AND SHGC ARE MAXIMUMS. WHEN INSULATION IS INSTALLED IN A CAVITY WHICH IS LESS THAN THE LABEL OR DESIGN THICKNESS
 OF THE INSULATION, THE INSTALLED R-VALUE OF THE INSULATION SHALL NOT BE LESS THAN THE R-VALUE SPECIFIED IN THE TABLE. b. THE FENESTRATION U-FACTOR COLUMN EXCLUDED SKYLIGHTS. THE SOLAR HEAT GAIN COEFFICIENT
- (SHGC) COLUMN APPLIES TO ALL GLAZED FENESTRATION. c. $\underline{\ ^*10/15"}$ MEANS R-10 CONTINUOUS INSULATED SHEATHING ON THE INTERIOR OR EXTERIOR OF THE HOME
- OR R-15 CAVITY INSULATION AT THE INTERIOR OF THE BASEMENT WALL OR CRAWL SPACE WALL. d. FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM OF THE FOOTING OR A MAXIMUM OF 24 BELOW GRADE WHICHEVER IS LESS. FOR FLOATING SLABS, INSULATION SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION WALL OR 24", WHICHEVER IS LESS. R-S SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS.
- e. <u>DELETED</u>
- g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMI IM
- h. THE FIRST VALUE IS CAVITY INSULATION. THE SECOND VALUE IS CONTINUOUS INSULATION, SO "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATED E FIRST VIALE ES CATIF INSOLUTION, IT IS EXCOUNT MADES INCOMENDED AND INCOME AND INSOLUTION AND INS OF THE EXTERIOR, SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-2. "13 + 2.5" MEANS R-13 CAVIT
- i. FOR MASS WALLS. THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WALL
- E IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A U-FACTOR NO GREATER THAN 0.55 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.
- k. IN ADDITION TO THE EXEMPTION IN SECTION N1102.3.3, A MAXIMUM OF TWO GLAZED FENESTRATION PRODUCT ASSEMBLIES HAVING A SHGC NO GREATER THAN 0.70 SHALL BE PERMITTED TO BE SUBSTITUTED FOR MINIMUM CODE COMPLIANT FENESTRATION PRODUCT ASSEMBLIES WITHOUT PENALTY.
- I. R-30 SHALL BE DEEMED TO SATISFY THE CELLING INSULATION REQUIREMENT WHEREVER THE FULL HEIGHT OF UNCOMPRESSED R-30 INSULATION EXTENDS OVER THE WALL TOP PLATE AT THE EAVES OTHERWISE R-38 INSULATION IS REQUIRED WHERE ADEQUATE CLEARANCE EXISTS OR INSULATION MUST EXTEND TO EITHER THE INSULATION BAFFLE OR WITHIN 1 TINCH OF THE ATTIC ROOF DECK.
- OF THE ATTIC ROOF DECK.

 THE TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OF THE ROOF. THERE THE INSULATION MUST FILL THE SPACE UP TO THE AR BAFFLE.

 R. 1-9 FIBERGLASS BATTS COMPRESSED AND INSTALLED N A NOMINAL 2 × 6 FRAMING CAVITY IS DEEMED TO COMPLY. FIBERGLASS BATTS RATED R-19 OR HIGHER COMPRESSED AND INSTALLED N AZW MALLS NOT DECEMBED TO COMPLY.

0. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT



1014 SQ. FT. OF CRAWL SPACE / 150 = 6.76 SQ. FT. OF REQ'D VENTILATION WITHOUT CROSS VENTILATION 6.76 SQ. FT. OF VENTILATION REQ'D / 0.88 SQ.FT. PER VENT = 8 VENTS REQ'D (BASED ON 8" X 16" VENTS)1

-OR-1014 SQ. FT. OF CRAWL SPACE / 1500 = .676 SQ. FT. OF REQ'D VENTILATION WITH CROSS VENTILATION

.676 SQ. FT. OF VENTILATION REQ'D / 0.88 SQ.FT. PER VENT = 1 VENTS REQ'D (BASED ON 8" X 16" VENTS)2

THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 OF THE CRAWL SPACE THE TOTAL AREA OF VENTILATION OF ENTENS MAY BE REQUELD TO TRISO OF THE CRAWL SPACE. GROUND AREA WHERE THE REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION OF THE CRAWL SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. ONE FOUNDATION VENT SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. TO PREVENT RAINWATER ENTRY WHEN THE CRAWL SPACE IS BUILT ON A SLOPED SITE. THE UPHILL FOUNDATION WALLS MAY BE CONSTRUCTED WITHOUT WALL LEWIN OPENINGS. VENT DAMS SHALL BE PROFUDED WHEN THE BOTTOM OF THE FOUNDATION VENT OPENING IS LESS THAN 4 INCHES ABOVE THE FINISHED.

WALL VENTED CRAWL SPACES REQUIRE FULL COVERAGE GROUND VAPOR RETARDERS.

CRAWL SPACE VENTILATION CALCULATION

STEEL BEAM CENTER BEAM OVER PER PLAN CENTER OF STUD COLUMN COIL STRAP EACH SPLICE PLATE DOUBLE TOP PLATE 2X PLATE OR STEEL PLATE WALL STUDS AS REQD. STUD COLUMN (PER PLAN) SECURE ÀS REQUIRED DROPPED BEAM TO STUD COLUMN DETAIL STEEL BEAM SHOWN/LVL SIMILAR

2X PLATE NAILER

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Please review these documents carefully.

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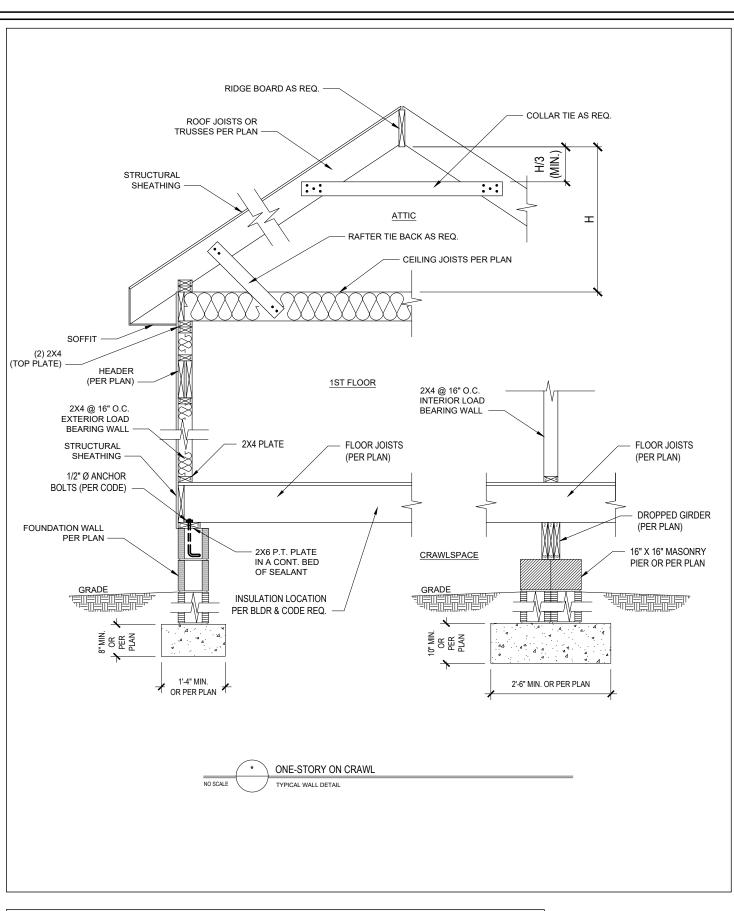
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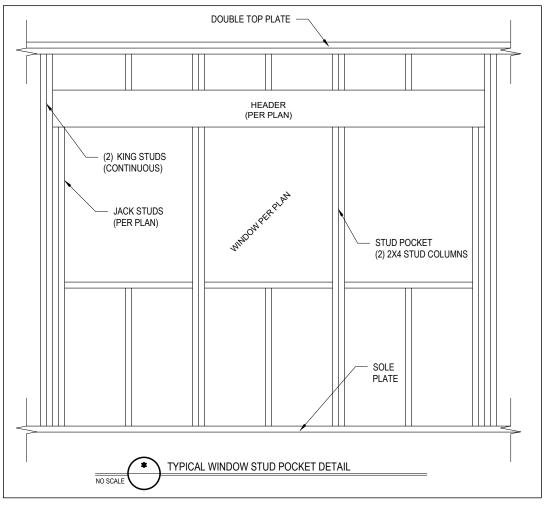
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* Engineers seal does not include construction means, methods, techniques, sequences, procedures or safety precaution.
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ENGINEERING & DESIGN, P.A.



SMITH WOODWORKS, INC.

553 BUMPAS CREEK ACCESS

STANDARD DETAILS

Project #:

DRB2501-0243

Date:
8/29/2025

Engineered By:
HJS
DWG. Checked By:

AM
Scale:
NOT TO SCALE

REVISIONS

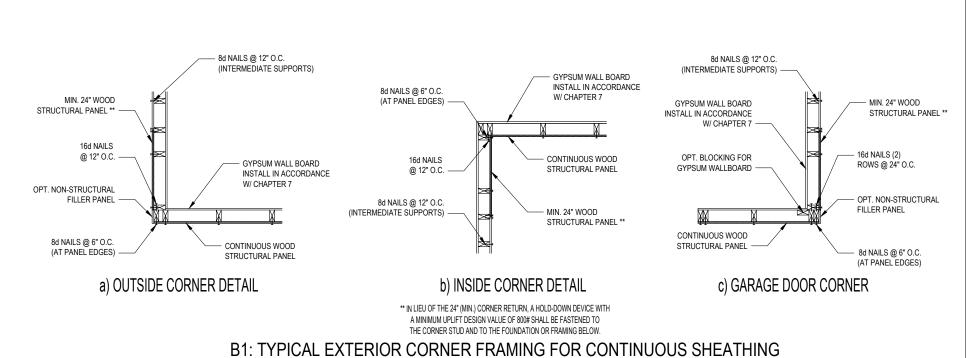
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D2

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STRUCTURAL SHEATHING NOTES

- 1. DESIGNED FOR SEISMIC ZONE A-C AND WIND SPEEDS OF 120 MPH OR LESS.
- 120 MPH OR LESS.

 WALLS SHALL BE BRACED IN ACCORDANCE WITH SECTION R602.10 of THE 2018 NCRC

 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

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
- EXTERIOR BRACED WALL PANELS (BWP) SHALL BE CONSTRUCTED IN ACCORDANCE WITH CS-WSP METHOD AS PRESCRIBED IN SECTION R802.10.3 (UNO) 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 7/16". SHEATHING SHALL BE SECURED WITH MINIMUM BOOD COMMON OR GALVANIZED BOX MALLS (2.1°C. LONG X.0.13°D JIA.) SPACED AT 6" GALVANIZED BOX NAILS (2-1/2" LONG X 0.113" DIA.) SPACED AT 6' O.C. AT PANEL EDGES AND SPACED AT 6" O.C. AT INTERMEDIATE
- 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

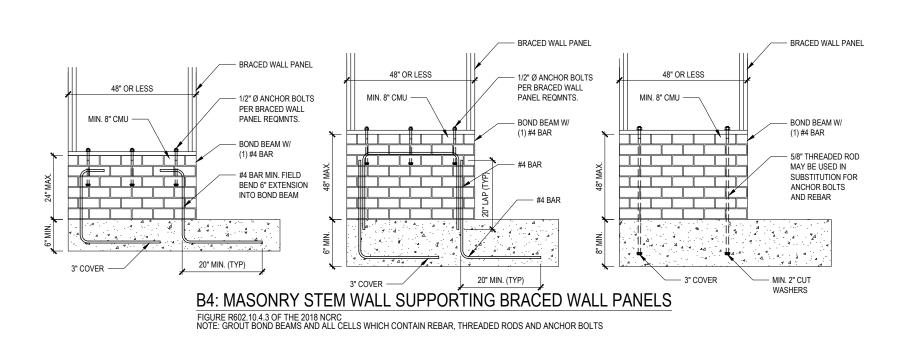
4 SHEATH INTERIOR AND EXTERIOR

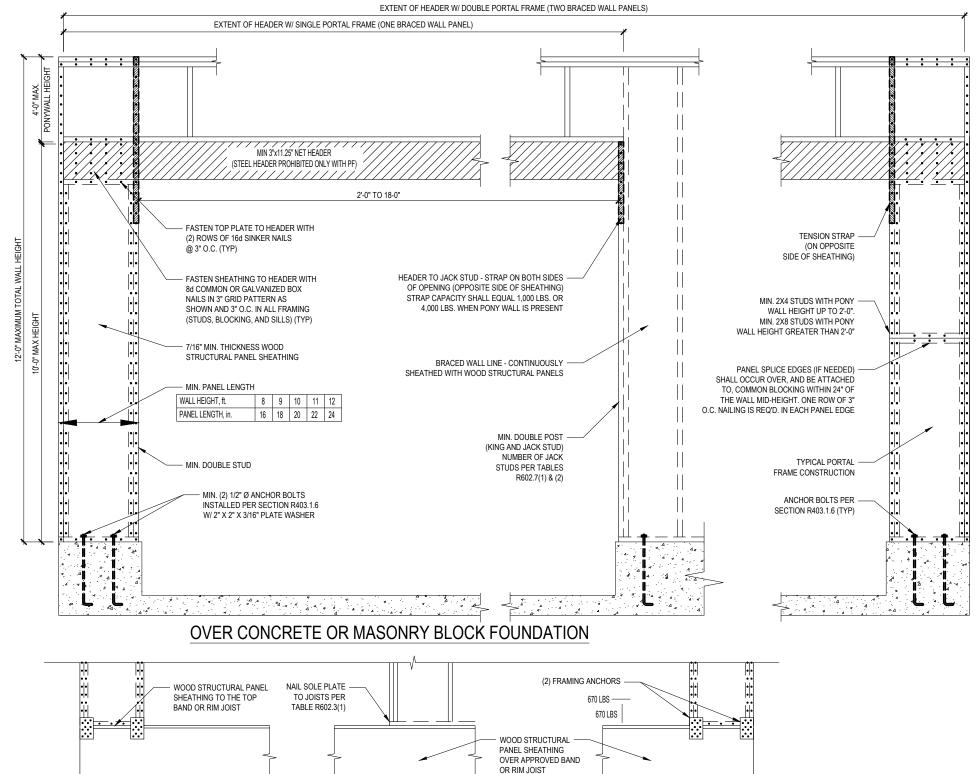
 FOR CS-WSP METHOD, A MINIMUM 24" BRACED WALL PANEL CORNER RETURN SHALL BE PROVIDED AT BOTH ENDS OF A BRACED WALL LINE IN ACCORDANCE WITH FIGURE R602.10.3 (4). IN LIEU OF A CORNER RETURN. EITHER A MINIMUM 48" BRACED WALL PANEL SHALL BE PROVIDED AT THE CORNER OR A HOLD-DOWN DEVICE WITH A MINIMUM UPLIFT DESIGN VALUE OF 800# SHALL BE FASTENED TO THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER AND TO THE FOUNDATION OR

5 MINIMUM 800# HOLD-DOWN DEVICE

REQUIRED CONNECTION			CONNECTION	
METHOD	MATERIAL	MIN. THICKNESS	@ PANEL EDGES	@ INTERMEDIATE SUPPORT
CS-WSP	WOOD STRUCTURAL PANEL	7/16"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 6" O.C.
GB	GYPSUM BOARD	1/2"	5d COOLER NAIL** @ 7" O.C.	5d COOLER NAIL** @ 7" O.C.
WSP	WOOD STRUCTURAL PANEL	3/8"	6d COMMON NAILS @ 6" O.C.	6d COMMON NAILS @ 12" O.C.

OR EQUIVALENT PER TABLE R702.3.5 **B3: BRACE WALL PANEL CONNECTIONS NO SCALE





ATTACH SHEATHING TO BAND

NAILS 3" O.C. TOP AND BOTTOM $\,-\,$

WOOD STRUCTURAL -

OVER APPROVED BAND OR RIM JOIST

PANEL SHEATHING

OVER RAISED WOOD FLOOR - OVERLAP OPTION (WHEN PORTAL SHEATHING LAPS OVER BAND OR RIM JOIST)

OVER RAISED WOOD FLOOR - FRAMING ANCHOR OPTION (WHEN PORTAL SHEATHING DOES NOT LAP OVER BAND OR RIM JOIST)

B2: METHOD PF: PORTAL FRAME CONSTRUCTION

TABLE R602.3(1)

WOOD STRUCTURAL PANEL NAIL SOLE PLATE —

BAND OR RIM JOIST

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