45.4 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO < 2.25/12 34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO < 7/12 21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

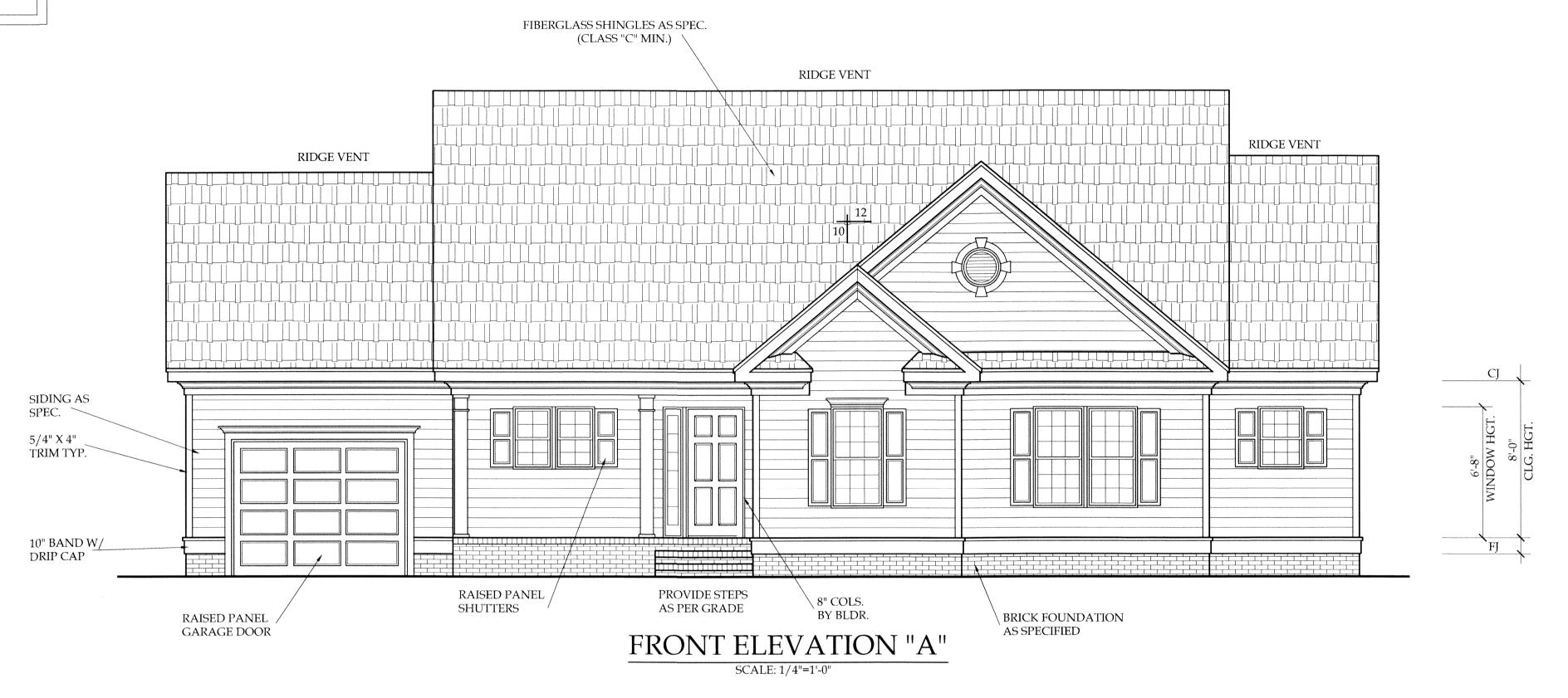
VALUES STATED ARE FOR ROOFS WITH A MEAN HEIGHT OF 30 FEET OR LESS. ROOFS WITH MEAN ROOF HEIGHTS GREATER THAN 30 FEET MUST SHOW SPECIFIC INFORMATION FOR CLADDING.

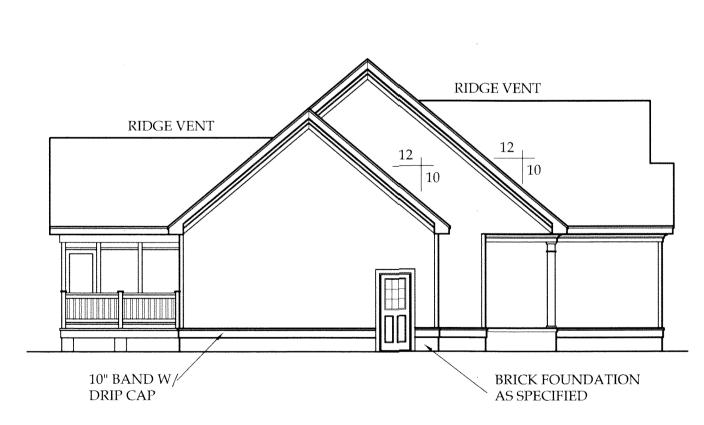
THIS PLAN HAS BEEN DRAWN TO CONFORM TO THE NORTH CAROLINA RESIDENTIAL CODE (2018 INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS), CURRENT EDITION WITH AMENDMENTS UNLESS OTHERWISE NOTED.

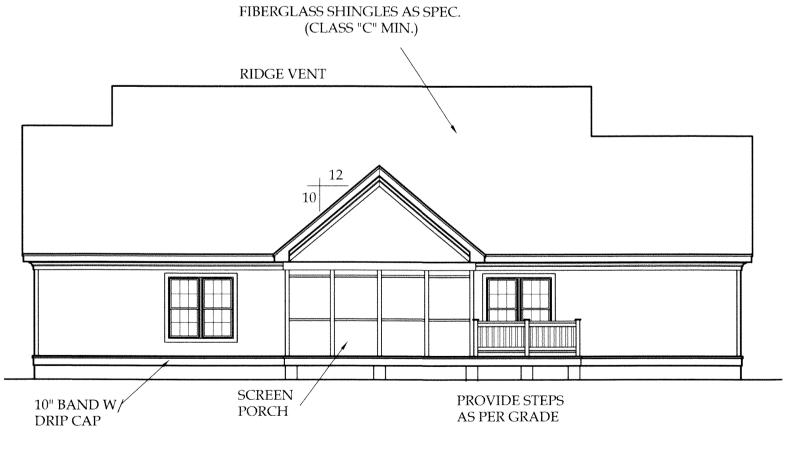
CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO BEGGINING WORK. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL STATE AND LOCAL BUILDING CODES AND ORDINANCES. KADS CUSTOM HOME DESIGNS, LLC ASSUMES NO LIABILITY FOR SITE CONDITIONS, CONSTRUCTION METHODS OR ANY DEVIATION OF THESE PLANS.

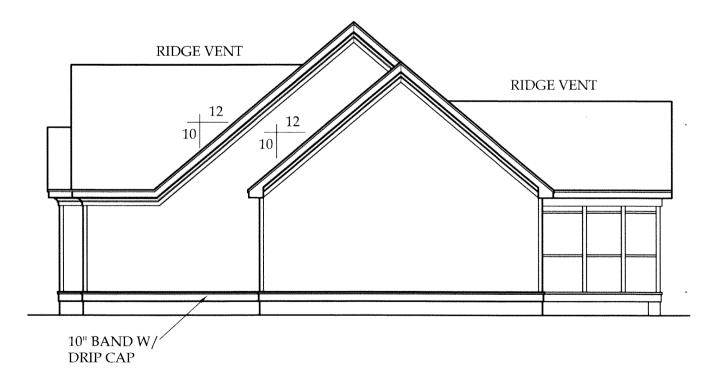
NOTE:

ALL WINDOWS TO BE INSTALLED MUST MEET
A MINIMUM OF .35 U VALUE OR BETTER, UNLESS
ENERGY CALCULATIONS ARE SUBMITTED WITH PLANS
PROVIDED BY BUILDER AT TIME OF PLAN REVIEW.









LEFT ELEVATION

SCALE: 1/8"=1'-0"

REAR ELEVATION

SCALE: 1/8"=1'-0"

RIGHT ELEVATION

SCALE: 1/8"=1'-0"

ustom Home Desi

KADS Custom]

TANCIL BUILDERS, INC.

DRAWN FOR

DRAWN BY: D.W.O.

DATE: 1/7/19

PAGE NO

AGEN

OF 5

PLAN NO. DK1514

RIDGE VENT

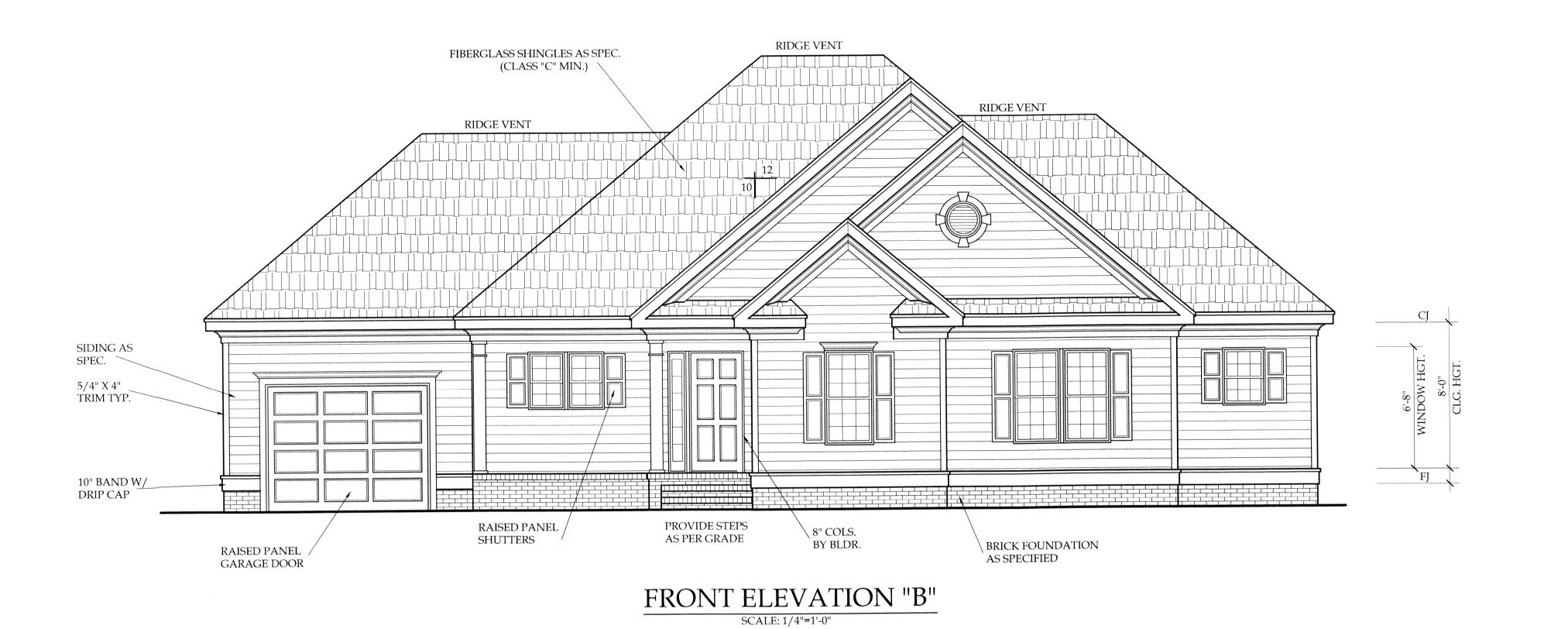
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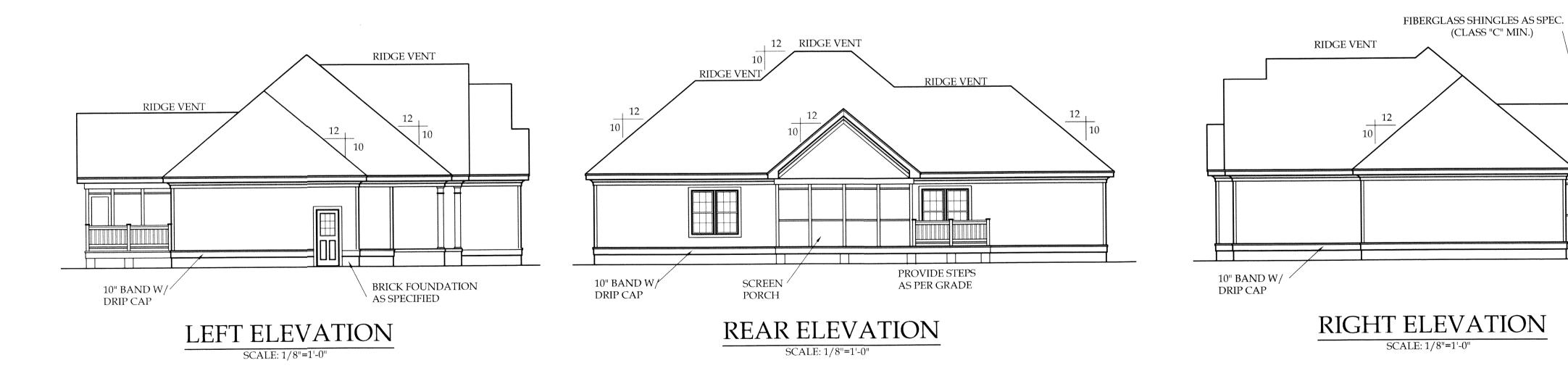
PAGE NO

OF

PLAN NO.

DK1514





HEATED

UNHEATED

GARAGE SQ. FT.

DECK SQ. FT.

SCALE: 1/4"=1'-0" 8'-0" CLG. HGT.

SET WINDOWS AT 6'-8" A.F.F.

FIRST FLOOR HTD. SQ. FT. = 1514

FRONT PORCH SQ. FT. = 92

SCREEN PORCH SQ. FT. =160

FIRST FLOOR PLAN

= 301

= 90

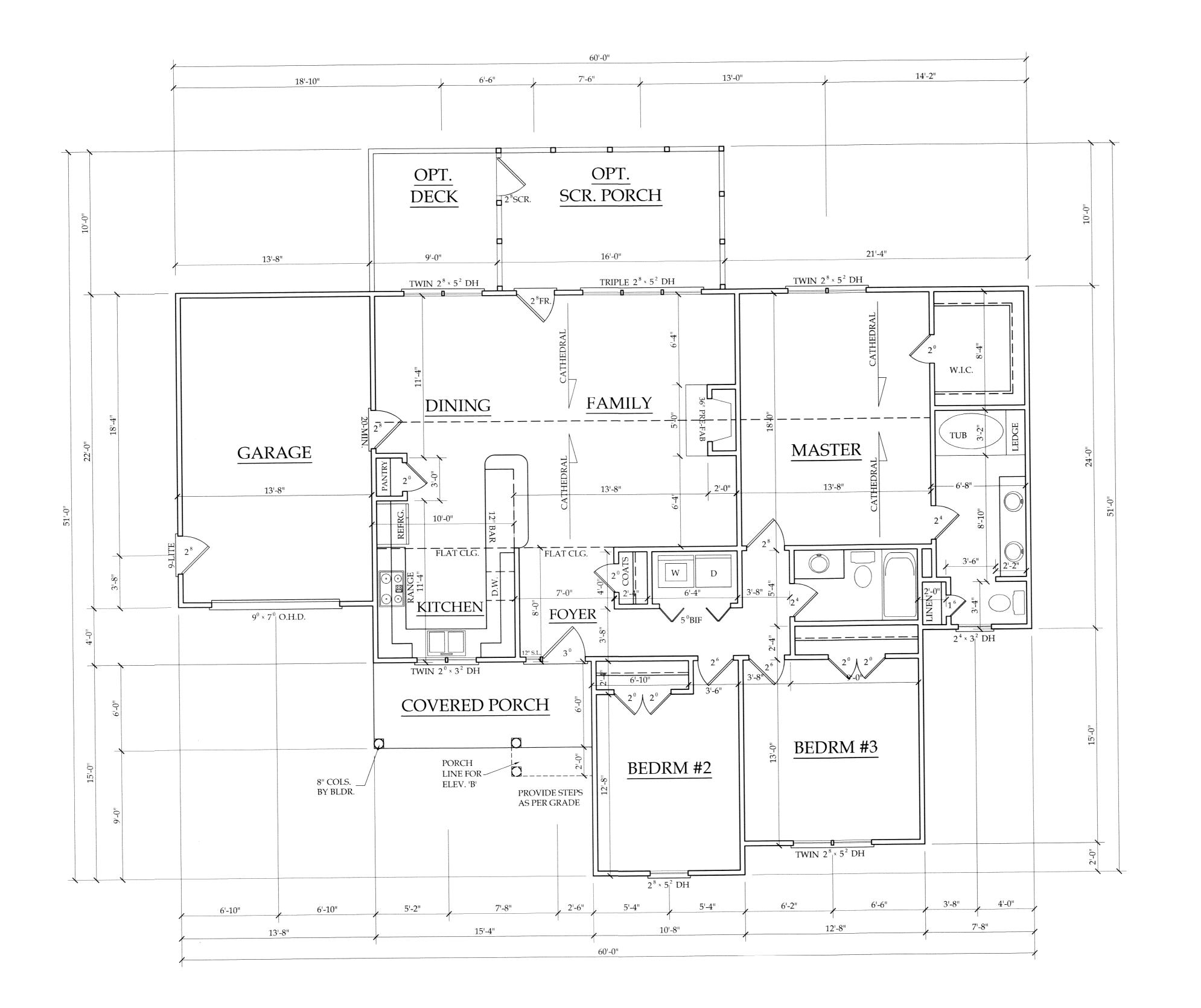
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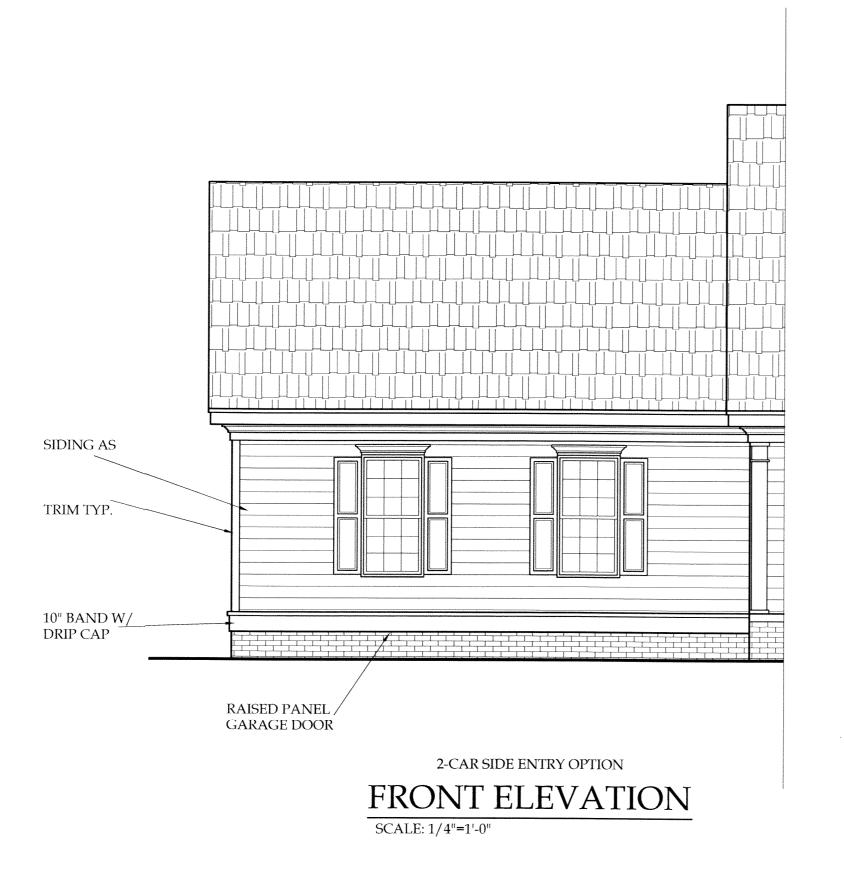
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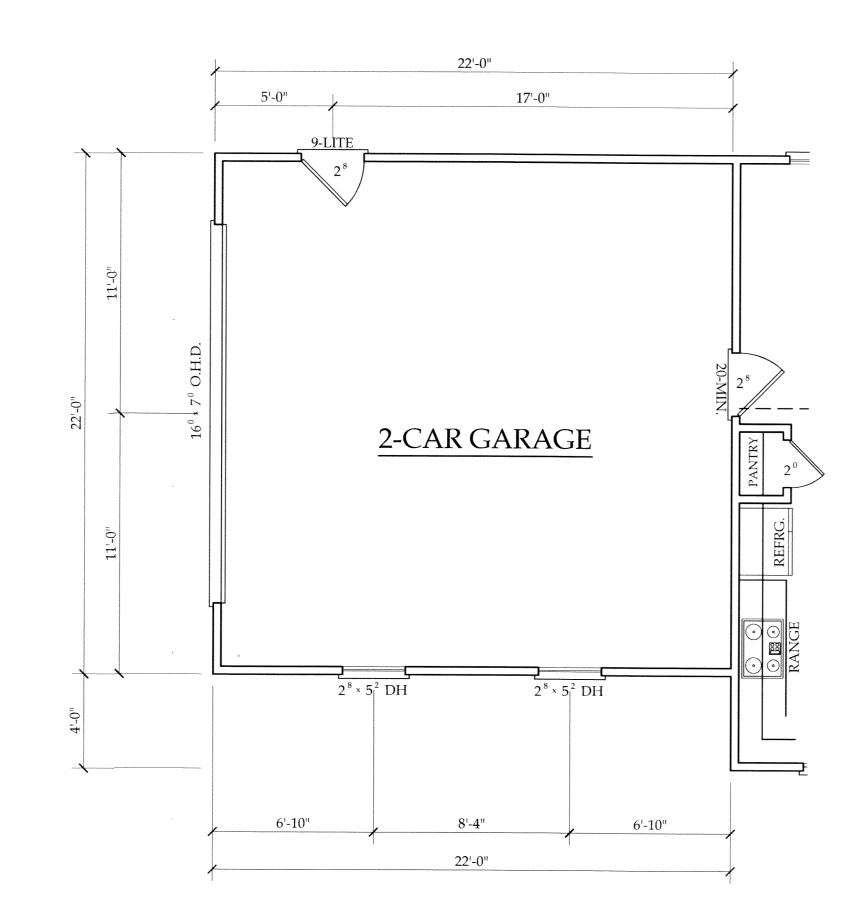
3

OF 5

PLAN NO. DK1514



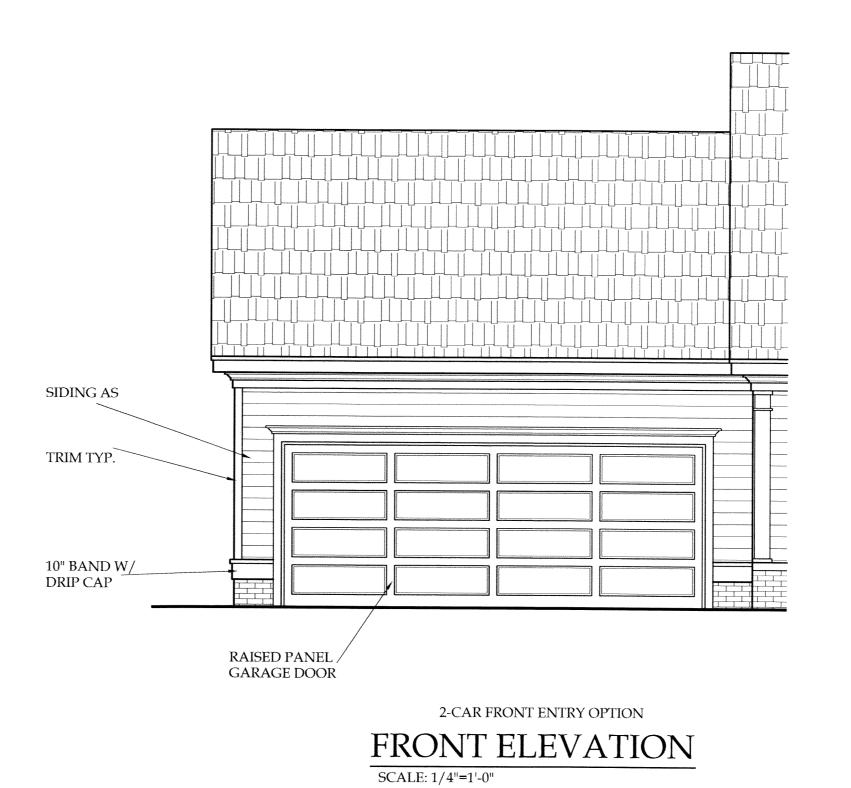


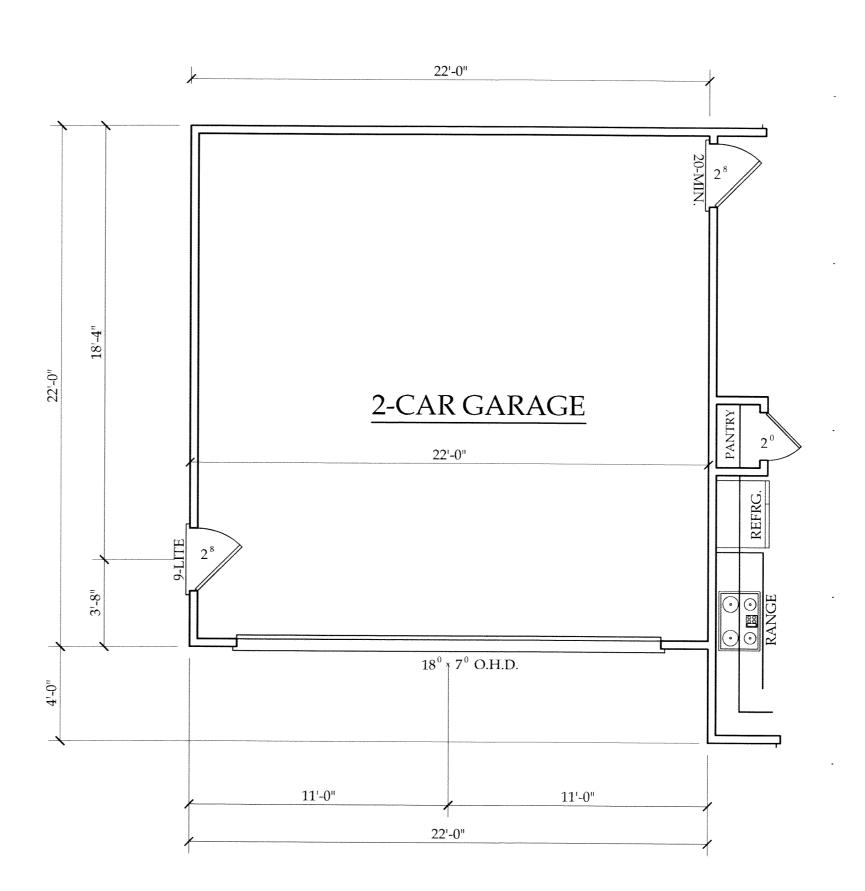


2-CAR SIDE ENTRY OPTION

FIRST FLOOR PLAN

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





TANCIL BUILDERS, INC.

DRAWN BY:

D.W.O.

DATE:

1/7/19

PAGE NO

OF

PLAN NO.

DK1514

Designs

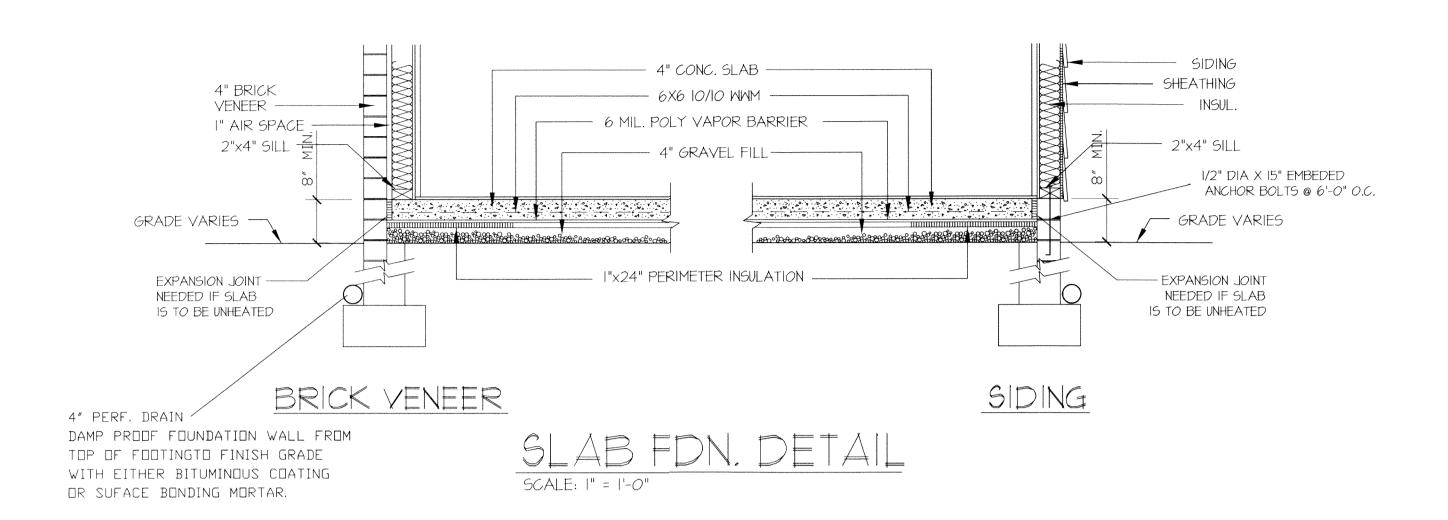
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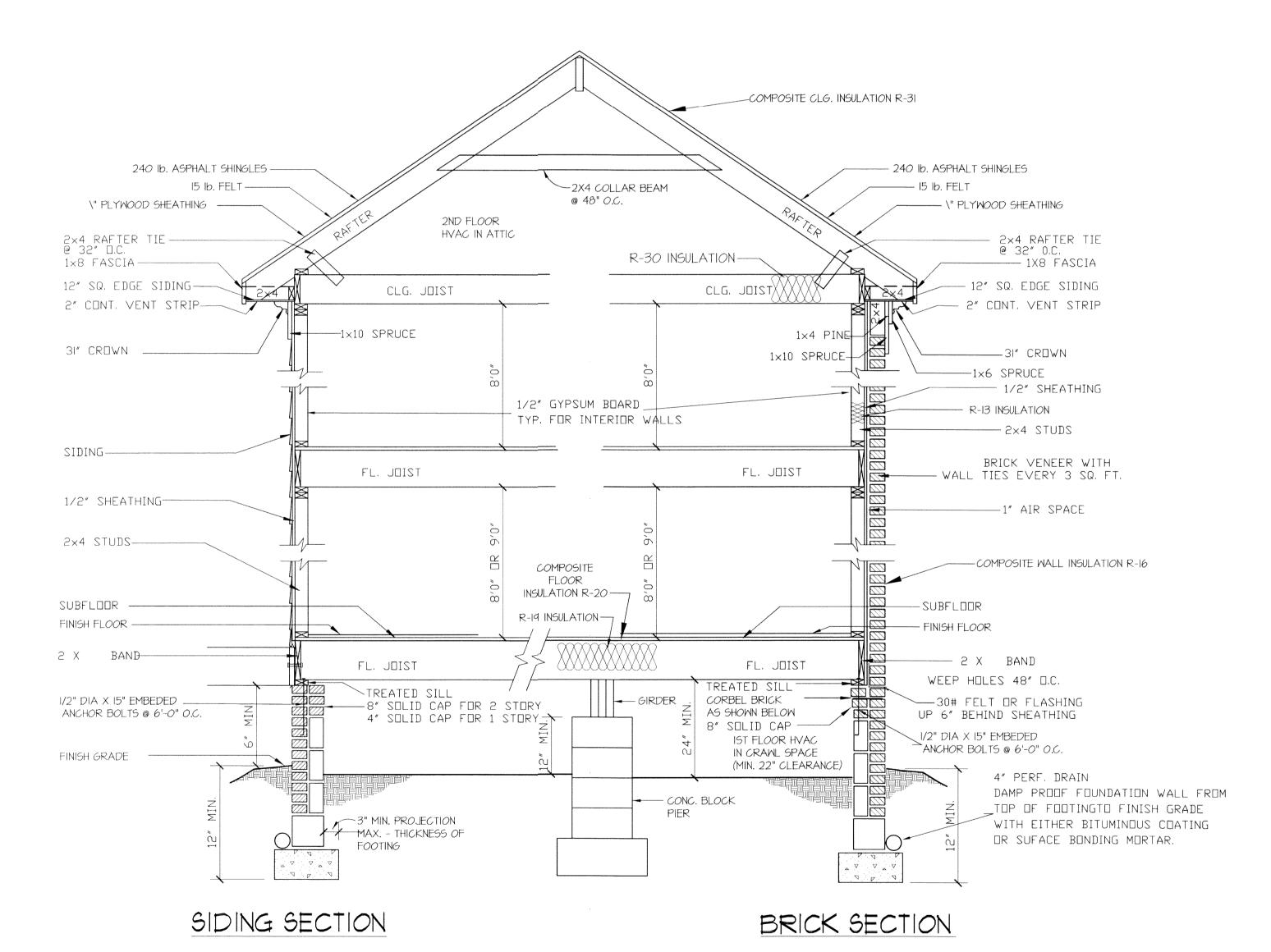
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OF

PLAN NO. DK1514





WALL SECTION

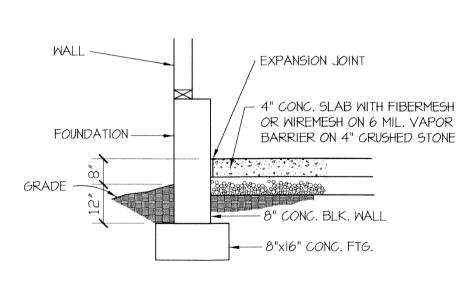
SCALE: \" = 1'-0"



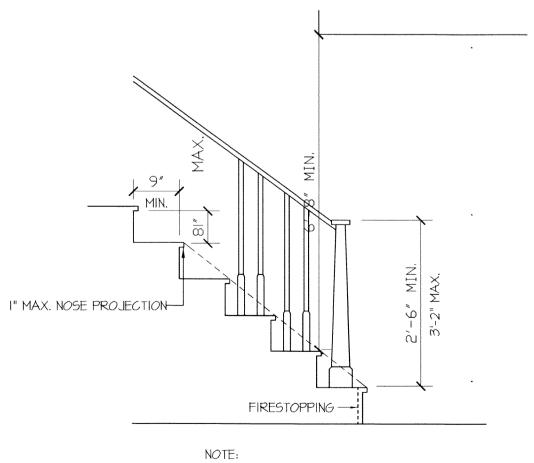
PROVIDE (1) VENT WITHIN 3'-0" OF EACH

CORNER.

REFER TO MANUFACTURER SPECIFICATIONS FOR ACTUAL VENTS USED TO DETERMINE NUMBER OF VENTS REQUIRED.



GARAGE SLAB SCALE: NTS



ROOF VENTILATING REQUIREMENTS

ROOF VENTILATING REQUIREMENTS

BUILDER TO PROVIDE APPROPRIATE VENTILATING

AS REQUIRED.

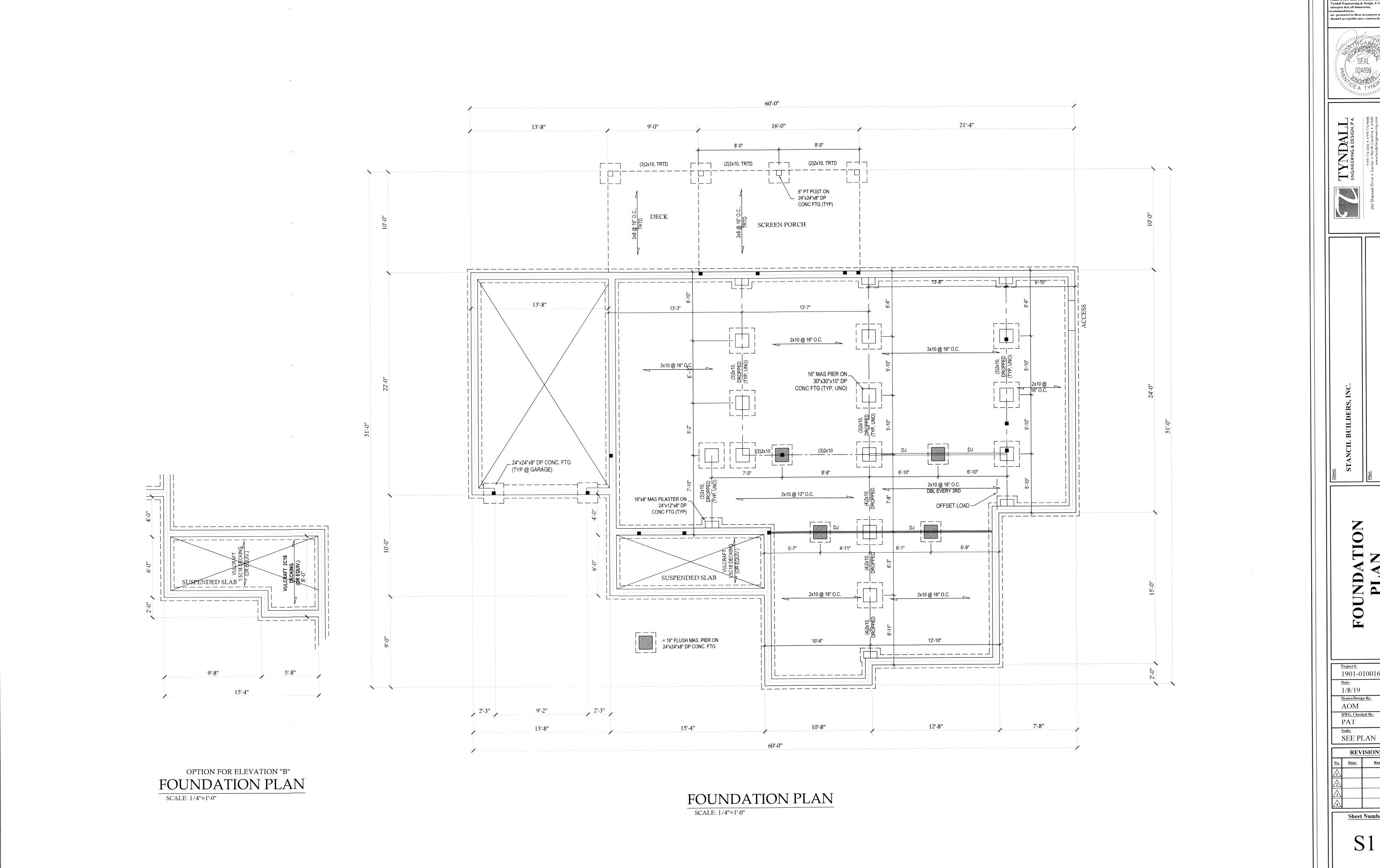
(POWER ROOF VENTILATOR REQUIRED)

= <u>6.15</u> SQ. FT. REQ'D

= <u>12.31</u> SQ. FT. REQ'D

MINIMUM CLEAR WIDTH: 2'-8\" FOR INTERIOR STAIRS 3'-0" FOR EXTERIOR STAIRS

STAIR DETAIL
SCALE: NTS



*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.

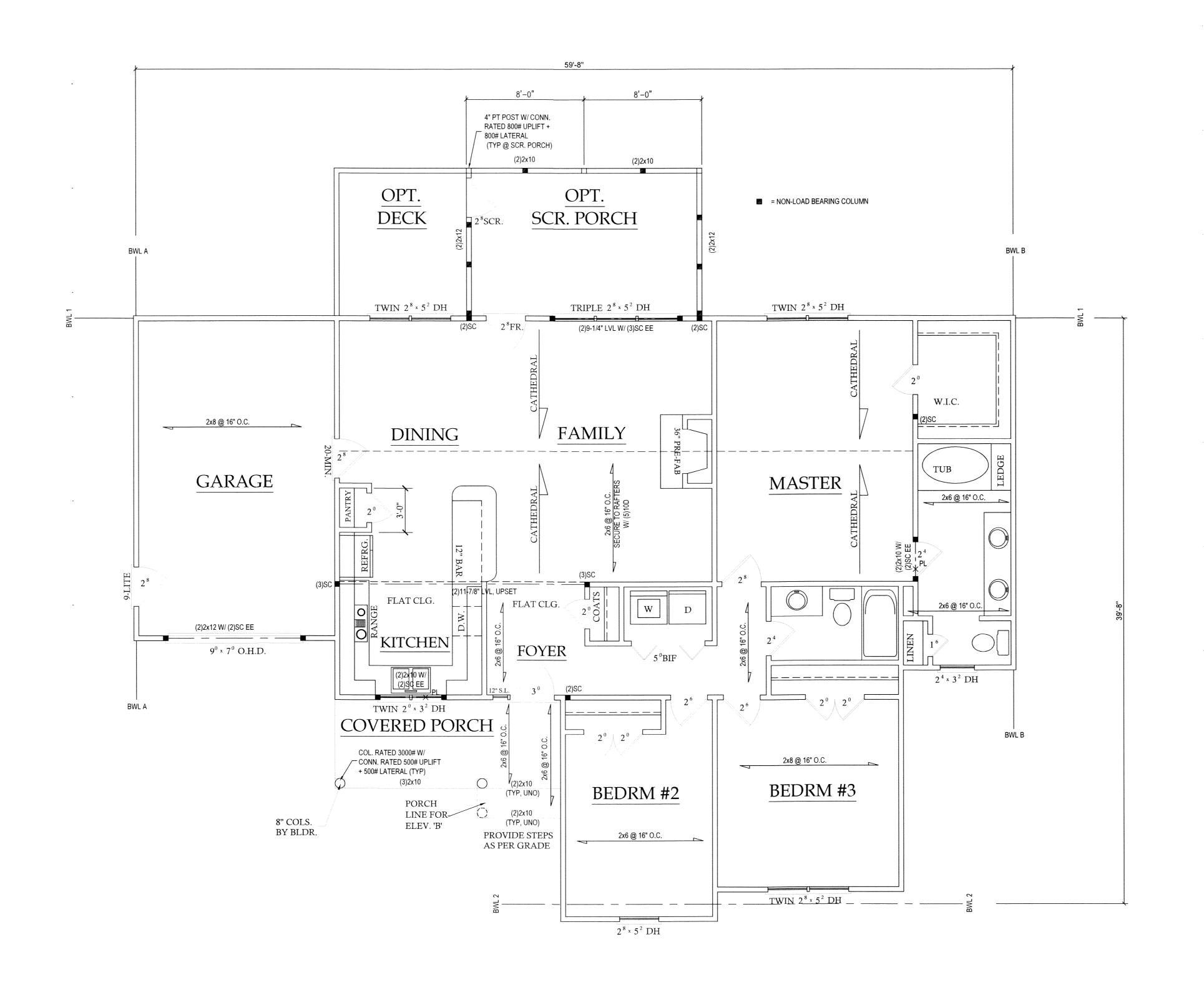
*Please review these documents carefully. Tyndall Engineering & Design, P.A. will interpret that all dimensions, recommendations, etc. presented in these documents were deemed acceptable once construction begins.



1901-010016 1/8/19 AOM DWG. Checked By:
PAT

REVISIONS

Sheet Number S1



DESIGN LOADS

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION	
	(,	()	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
	20	10	L/240	L/180
ROOF TRUSS	20	20	L/240	L/180
WIND LOAD	BASED	ON 100 MPH	(EXPOSUR	E B)
	BASED (N SEISMIC ZO	ONES A, E	& C

STRUCTURAL NOTES:

1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILING 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 = 1.9 M PSI(I.E. ILEVEL MICROLAM)

ALL LSL LUMBER IS TO BE 1.55E (Fb = 2325 PSI) 4) ALL LOAD BEARING EXTERIOR WINDOW HEADERS WITH MAXIMUM SPAN OF 5'-6" SHOULD BE A (2) 2x10 w/ (1) 2x4 KING STUD AND (1) 2x4 JACK STUD NAILED TOGETHER w/ (2) 10d @ 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 TABLE R502.5(1). 5) ALL INTERIOR LOAD BEARING HEADERS TO BE (2) 2x10 (U.N.O.) REFER TO TABLE R502.5(1) FOR JACK STUD REQUIREMENTS FOR HEADER SPANS FOR INTERIOR AND EXTERIOR LOAD CONDITIONS (UNO)

6) REFER TO 2018 NO BUILDING CODE SECTION R602 FOR CONSTITUTION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' 10' INTERIOR LABORATION OF ALL WALLS OF DEPT. 10' INTERIOR LABORATION OF DEPT. 10' INTERIOR LABORATION OF DEPT. 10' INTERIOR LABORATION

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. 10) PRESUMPTIVE BEARING CAPACITY = 2000 PSF 11) 1/2" 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

12) PSL COLUMNS DESIGNED WITH MAX. HEIGHT OF 9'-0" (UNO) 13) 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.

> BRACING PANEL LENGTHS REQUIRED: BWL A = 12.3 FT CS-WSP BWL B = 12.3 FT CS-WSP BWL 1 = 8.4 FT CS-WSP BWL 2 = 8.4 FT CS-WSP

BRACING PANEL LENGTHS PROVIDED: BWL A = 19.0 FT BWL B = 24.0 FT BWL 1 = 36.67 FT BWL 2 = 14.5 FT

HEATED FIRST FLOOR HTD. SQ. FT. = 1514UNHEATED FRONT PORCH SQ. FT. = 92 GARAGE SQ. FT. = 301SCREEN PORCH SQ. FT. =160 DECK SQ. FT. = 90

FIRST FLOOR PLAN

SCALE: 1/4"=1'-0" 8'-0" CLG. HGT. SET WINDOWS AT 6'-8" A.F.F.

igineers 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

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,

recommendations, etc. presented in these documents were deemed acceptable once construction begins.

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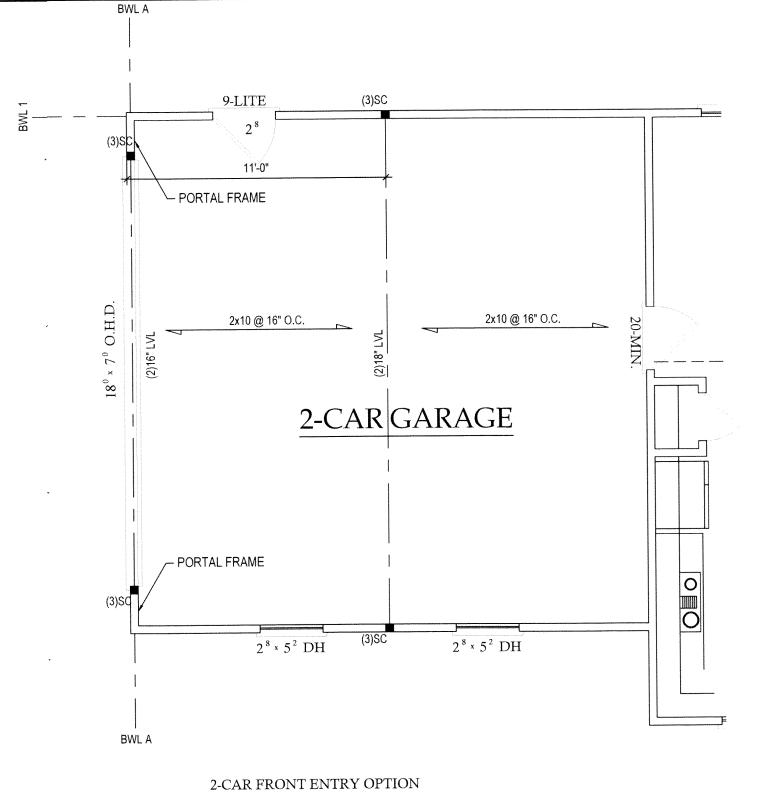
FIRST FLC

1/8/19 Drawn/Design By: AOM DWG. Checked By: PAT SEE PLAN REVISIONS

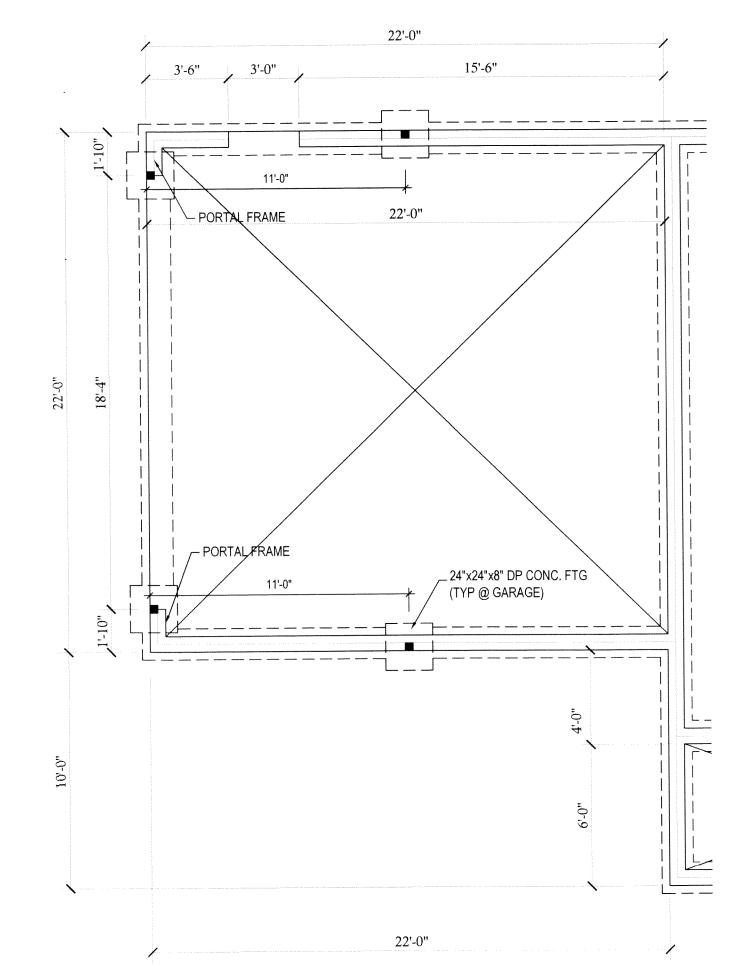
1901-010016

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of 4



2-CAR FRONT ENTRY OPTION FIRST FLOOR PLAN SCALE: 1/4"=1'-0"



2-CAR SIDE ENTRY OPTION

FOUNDATION PLAN

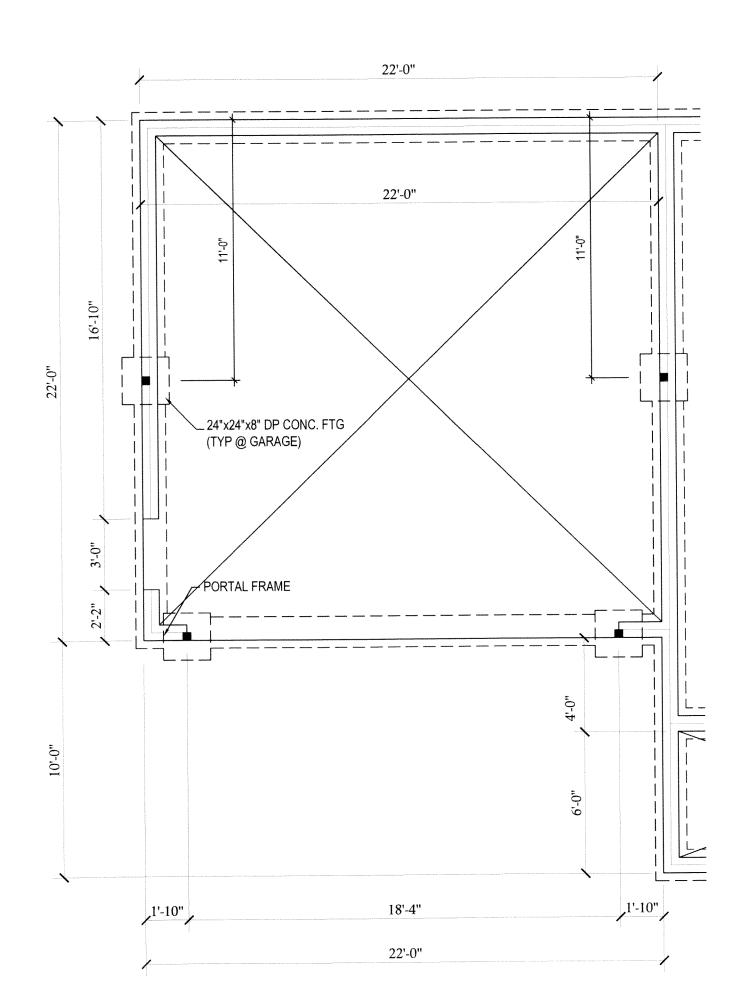
SCALE: 1/4"=1'-0"



2-CAR SIDE ENTRY OPTION

FIRST FLOOR PLAN

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



2-CAR FRONT ENTRY OPTION

FOUNDATION PLAN

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

STANCIL BUILDERS, INC.

GARAGE OPTIONS
STRUCTURAL PLA

Project #:
1901-010016

Date:
1/8/19

Drawn/Design By:
AOM

DWG. Checked By:
PAT

SEE PLAN

REVISIONS

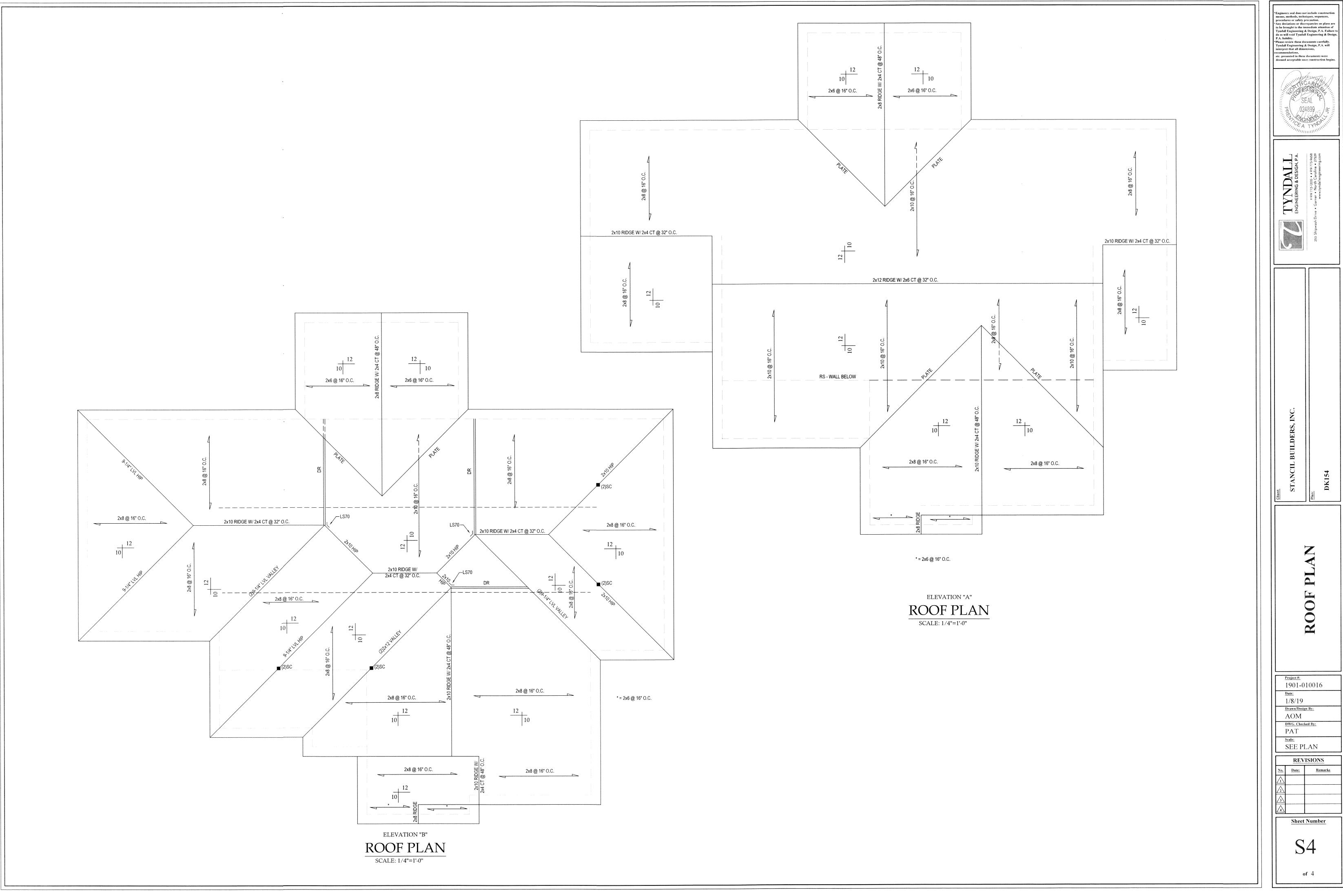
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1
2
3
4
Sheet Number

S3

of 4



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) DESIGN LOADS:

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION		
			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	В.	ASED ON 120 M	PH (EXPOSURE	B)	
SEISMIC		SEISMIC ZONI	ES A, B & C	•	

- 3) MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF
- 4) 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.)
- 5) 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.
- 6) 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 (U.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.)
- 7) 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.
- 8) 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.
- 9) 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" 0 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.
- 10) PROVIDE ANCHOR BOLT PLACEMENT PER SECTION 403.1.6: 1/2" 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.
- 11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF NC BUILDING CODE.
- 12) WALL AND ROOF CLADDING VALUES: 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
- **MEAN ROOF HEIGHT 30'-0" OR LESS 13) 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 IRC.
- 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.)

18.0 LBS/SQFT FOR ROOF PITCHES 6/12 TO 12/12

- 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.
- 21) 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.

CLIMATE ZONES	FENESTRATION U-FACTOR ^{b, J}		GLAZED FENESTRATION SHGC ^{b,k}	CEILING [®] R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE	FLOOR R-VALUE	BASEMENT ^{c,o} WALL R-VALUE	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE © WALL R-VALUE
3	0.35	0.55	0.30	38 or 30 cont	15 or 13 + 2.5	<u>5/13 or</u> <u>5/10 cont</u>	19	<u>5/13</u> ^f	0	5/13
4	0.35	0.55	0.30	38 or 30 cont ^j	15 or 13 + <u>2.5</u> ^h	<u>5/13 or</u> <u>5/10 cont</u>	19	10/15	10	<u>10/15</u>
5	0.35	0.55	NR	38 or 30 cont ^j	19 ⁿ , or 13 + 5 ^h or 15 + 3 ^h	13/17 <u>or</u> 13/12.5 cont	30 ^g	10/15	10	10/19

* TABLE N1102.1 CLIMATE ZONES 3-5

- d. 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. "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 MONOUTHIC 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-5 SHALL BE ADDED TO THE REQUIRED SLAB EDGE R-VALUES FOR HEATED SLABS.
- f. Basement wall insulation is not required in warm-humid locations as defined by <u>Figure N1101.7</u> and <u>Table N1101.7</u>. g. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY. R-19 MINIMUM. 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 SHEATHING. "15+3" MEANS R-15 CAVITY INSULATION. PLUS R-3 INSULATED SHEATHING. I<u>F STRUCTURAL SHEATHING COVERS 25% OR LESS OF THE EXTERIOR.</u>
 INSULATING SHEATHING IS NOT REQUIRED WHERE THE STRUCTURAL SHEATHING IS USED. IF STRUCTURAL SHEATHING COVERS MORE THAN 25 PERCENT
- OF THE EXTERIOR, SHALL BE SUPPLEMENTED WITH INSULATED SHEATHING OF AT LEAST R-2, "13 + 2.5" MEANS R-13 CAVITY INSULATION PLUS R-2.5 SHEATHING.
- i. FOR MASS WALLS, THE SECOND R-VALUE APPLIES WHEN MORE THAN HALF THE INSULATION IS ON THE INTERIOR MASS WALL. j. 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 CEILING 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 INCH OF THE ATTIC ROOF DECK.
- m. 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 AIR BAFFLE.

 1. R -19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2 ·· 6 FRAMING CAVITY IS DEEMED TO COMPLY, FIBERGLASS BATTS RATED R-19 OR HIGHER COMPRESSED.

 AND INSTALLED IN A 2X4 WALL IS NOT DEEMED TO COMPLY. Q. BASEMENT WALL MEETING THE MINIMUM MASS WALL SPECIFIC HEAT CONTENT REQUIREMENT MAY USE THE MASS WALL R-VALUE AS THE MINIMUM REQUIREMENT.
- 1400 SQ. FT. OF CRAWL SPACE / 150 = 9.33 SQ. FT. OF REQ'D VENTILATION WITHOUT CROSS VENTILATION 9.33 SQ. FT. OF VENTILATION REQ'D / 0.45 SQ.FT. PER VENT = 21 VENTS REQ'D1

1400 SQ. FT. OF CRAWL SPACE / 1500 = 0.93 SQ. FT. OF REQ'D VENTILATION WITH CROSS VENTILATION

- VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON PLAN, HOWEVER VENTS SHALL BE PLACED TO
- PROVIDE ADEQUATE VENTILATION AT ALL POINTS AND TO PREVENT DEAD AIR POCKETS. THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 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 UPPHILL FOUNDATION WALLS MAY BE CONSTRUCTED WITHOUT WALL VENT OPENINGS. VENT DAMS SHALL BE PROVIDED

0.93 SQ. FT. OF VENTILATION REQ'D / 0.45 SQ.FT. PER VENT = 3 VENTS REQ'D²

WHEN THE BOTTOM OF THE FOUNDATION VENT OPENING IS LESS THAN 4 INCHES ABOVE THE FINISHED EXTERIOR GRADE. WALL VENTED CRAWL SPACES REQUIRE FULL COVERAGE GROUND VAPOR RETARDERS.

CRAWL SPACE VENTILATION CALCULATION

2078 SQ. FT. OF ATTIC / 300 = 6.93 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.
- ATTIC VENTILATION CALCULATION



ALTERNATE MAX = MAXIMUM CANTILEVER — MINIMUM CEILING JOIST = NOMINAL CONCRETE MASONRY UNIT = ON CENTER CMU = PLATE CONCRETE PRESSURE TREATED REINFORCED CONTINUOU REQD REQUIRED COLLAR TIE = ROOF JOIST = DOUBLE = ROOF SUPPORT DIAMETER = STUD COLUMN = DOUBLE JOIS` SCHEDULE DOUBLE RAFTER = SPECIFIED SPEC THICK EACH END TRIPLE JOIST FLOOR JOIS TREATED FOUNDATION TYPICAL = UNLESS NOTED OTHERWISE = GALVANIZED HORIZ = HORIZONTAL = WIDE FLANGE BEAM WELDED WIRE FABRIC = HEIGHT = EXTRA JOIST MANUF = MANUFACTURER

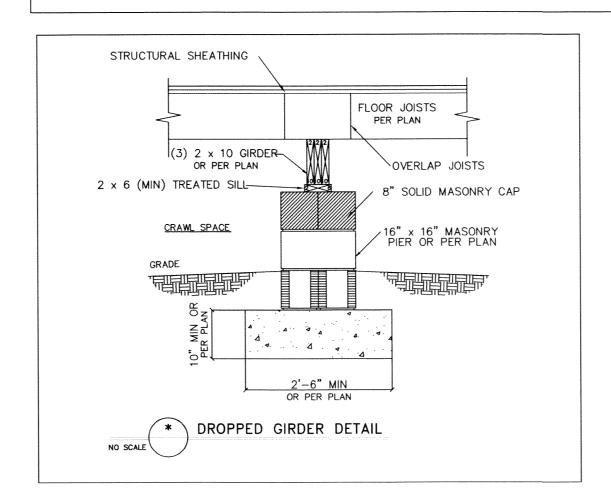
1) MAXIMUM HEIGHT OF DECK SUPPORT POSTS AS FOLLOWS:

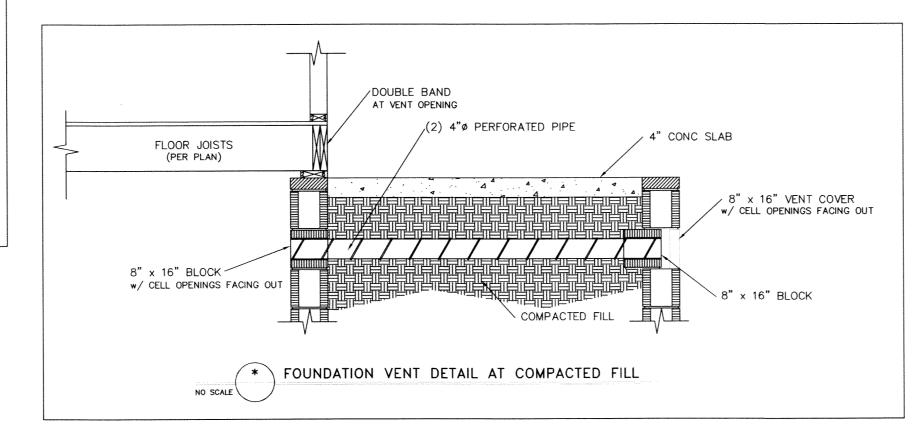
POST SIZE	MAX. POST HEIGHT**
4 x 4	8'-0"
6 x 6	20'-0"
***	OVER 20'-0"

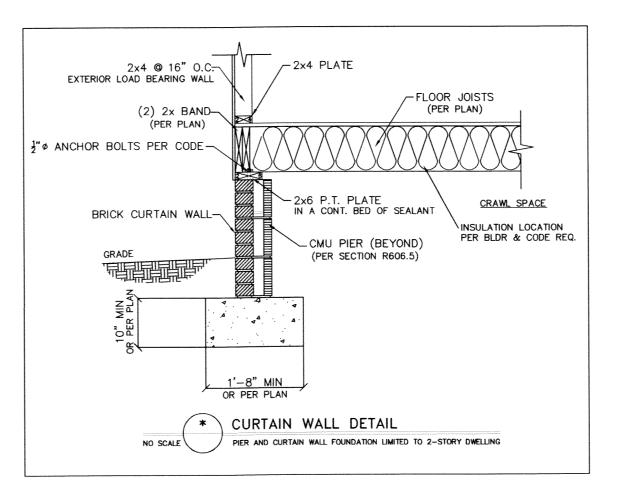
- * THIS TABLE IS BASED ON NO. 2 TREATED SOUTHERN PINE POSTS. MAXIMUM TRIBUTARY AREA IS BASED ON 128 TOTAL SQUARE FEET WHICH MAY BE LOCATED AT DIFFERENT LEVELS.
- ** FROM TOP OF FOOTING TO BOTTOM OF GIRDER *** DECKS WITH POST HEIGHTS OVER 20'-0" SHALL BE DESIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT.
- 2) DECKS SHALL BE BRACED TO PROVIDE LATERAL STABILITY BY ONE OF
- A. THE DECK FLOOR HEIGHT IS LESS THAN 4'-0" AND THE DECK IS ATTACHED TO THE STRUCTURE IN ACCORDANCE WITH SECTION (4)
- ABOVE. LATERAL BRACING IS NOT REQUIRED. 4 x 4 WOOD KNEE BRACES MAY BE PROVIDED ON EACH COLUMN IN BOTH DIRECTIONS. THE KNEE BRACES SHALL ATTACH TO EACH POST 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 45° AND 60° FROM THE HORIZONTAL. KNEE BRACES SHALL BE BOLTED TO THE POST AND GIRDER WITH ONE 5/8" O HOT DIPPED GALVANIZED
- BOLT AT EACH END OF THE BRACE. C. FOR FREESTANDING DECKS WITHOUT KNEE BRACES OR DIAGONAL BRACING, LATERAL STABILITY MAY BE PROVIDED BY EMBEDDING THE POSTS IN ACCORDANCE WITH THE FOLLOWING:

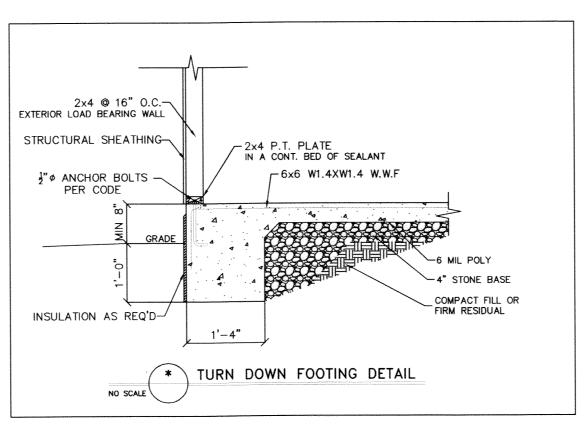
II POST SIZE I """		MAX. TRIBUTARY AREA	MAX. POST HEIGHT	EMBEDMENT DEPTH	CONCRETE DIAMETER
-	4 × 4	48 SQ. FT.	4'-0"	2'-6"	1'-0"
	6 x 6	120 SQ. FT.	6'-0"	3'-6"	1'-8"

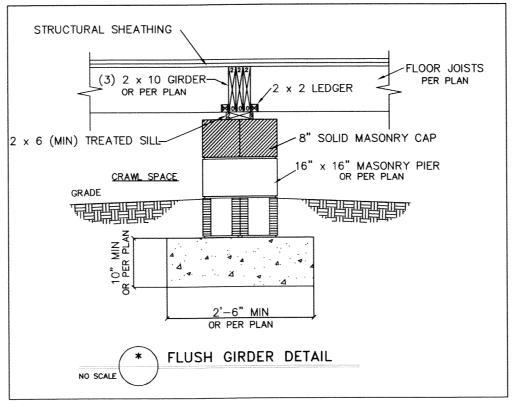
D. 2 x 6 DIAGONAL VERTICAL CROSS BRACING MAY BE PROVIDED IN TWO (2) PERPENDICULAR DIRECTIONS FOR FREESTANDING DECKS OR PARALLEL THE STRUCTURE AT THE EXTERIOR COLUMN LINE FOR ATTACHED DECKS. THE 2 x 6s SHALL BE ATTACHED TO THE POSTS WITH ONE 5/8" # HOT DIPPED GALVANIZED BOLT AT EACH END OF EACH BRACING MEMBER. FOR EMBEDMENT OF PILES IN COASTAL REGIONS, SEE CHAPTER 46.

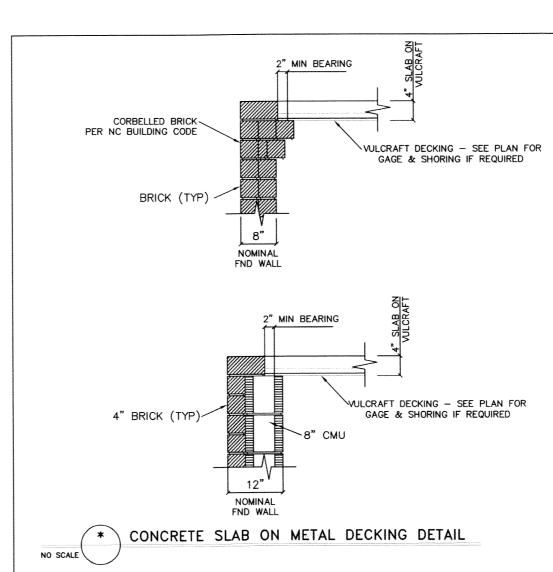


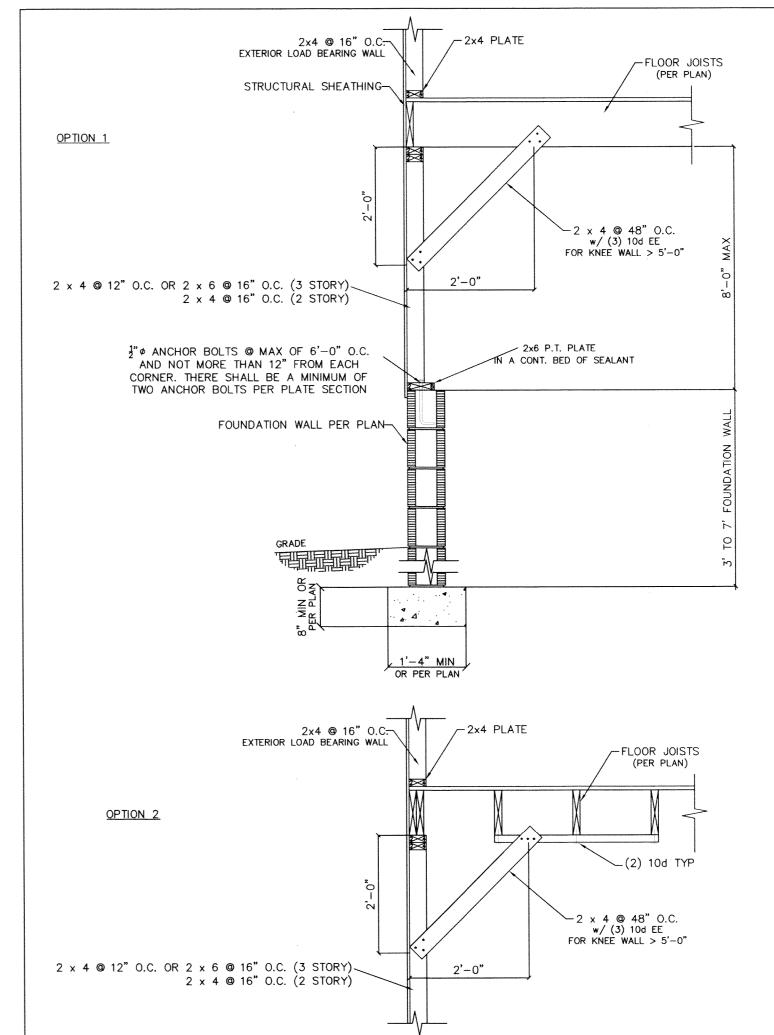


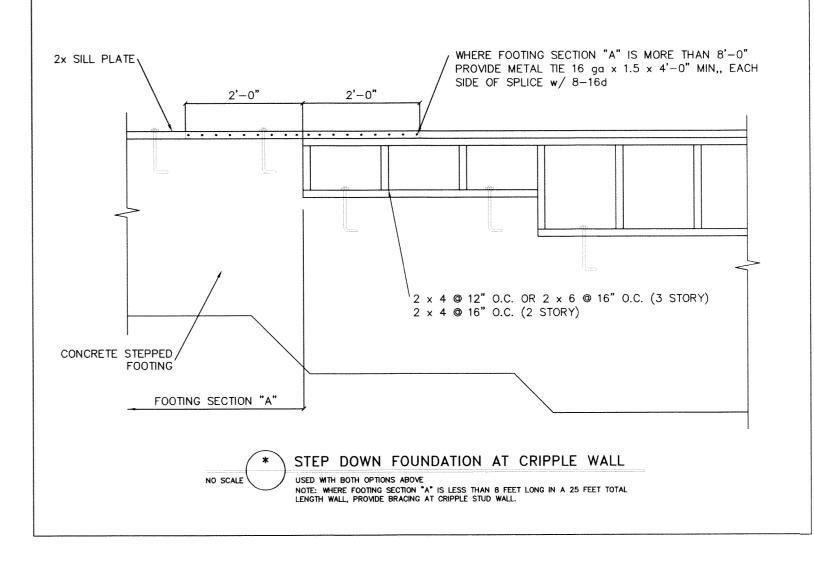




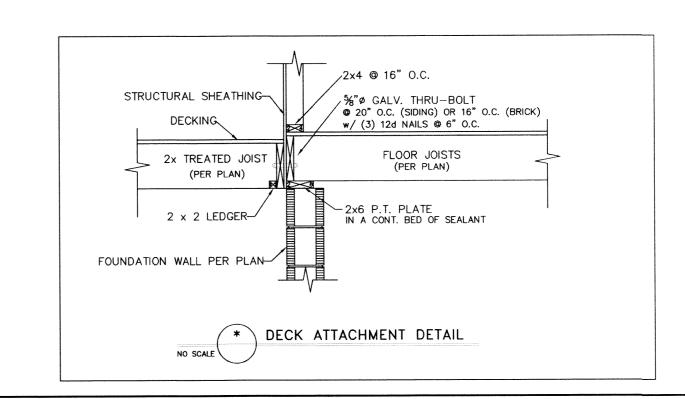




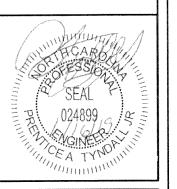




CRIPPLE WALL DETAIL



means, methods, techniques, sequences, ocedures or safety precaution Any deviations or discrepancies on plans are to be brought to the immediate attention of Fyndall Engineering & Design, P.A. Failure do so will void Tyndall Engineering & Design, lease review these documents carefully Tyndall Engineering & Design, P.A. will interpret that all dimensions, etc. presented in these documents were deemed acceptable once construction begin

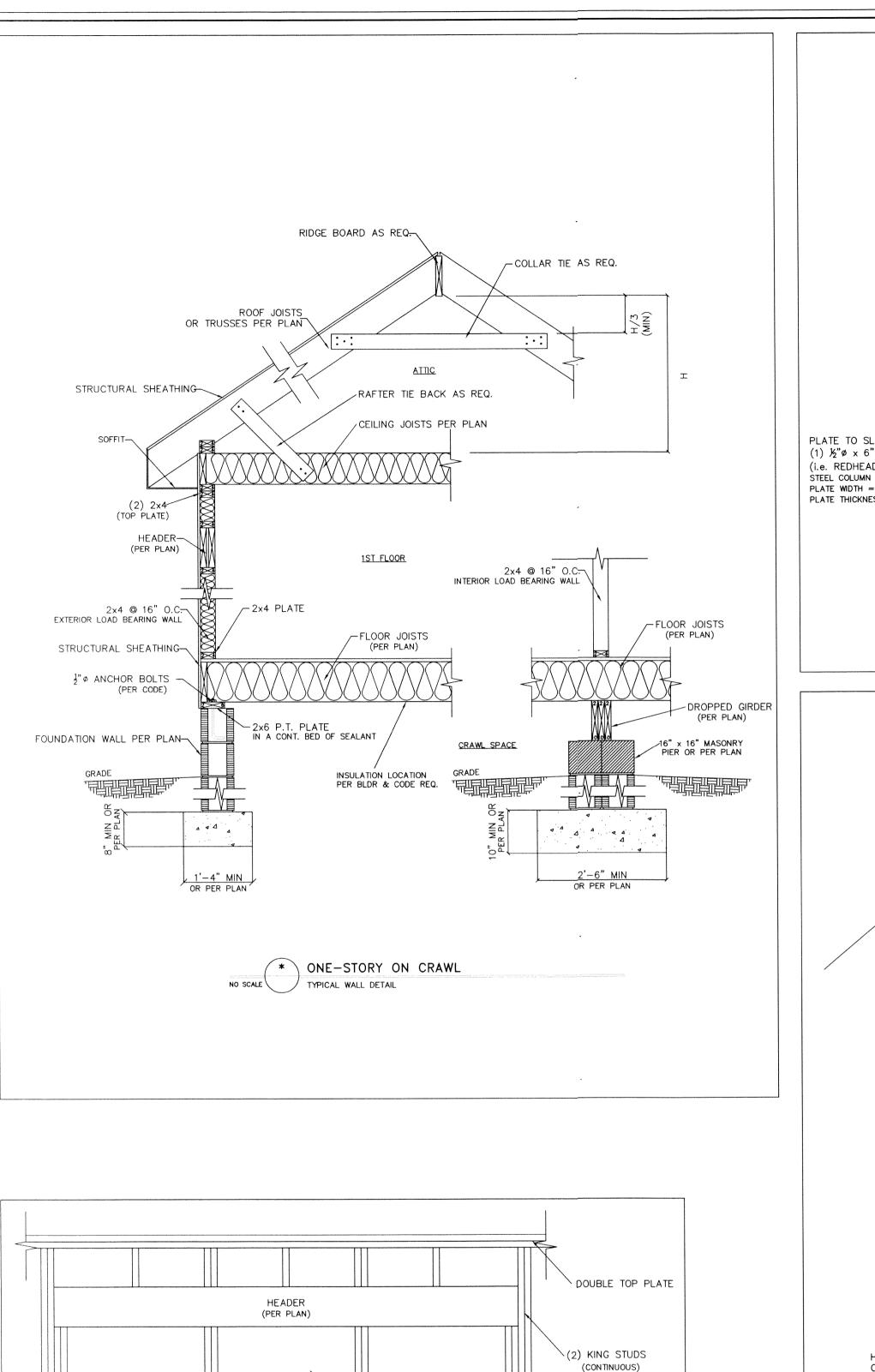


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REVISIONS

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(PER PLAN)

BOTTOM PLATE

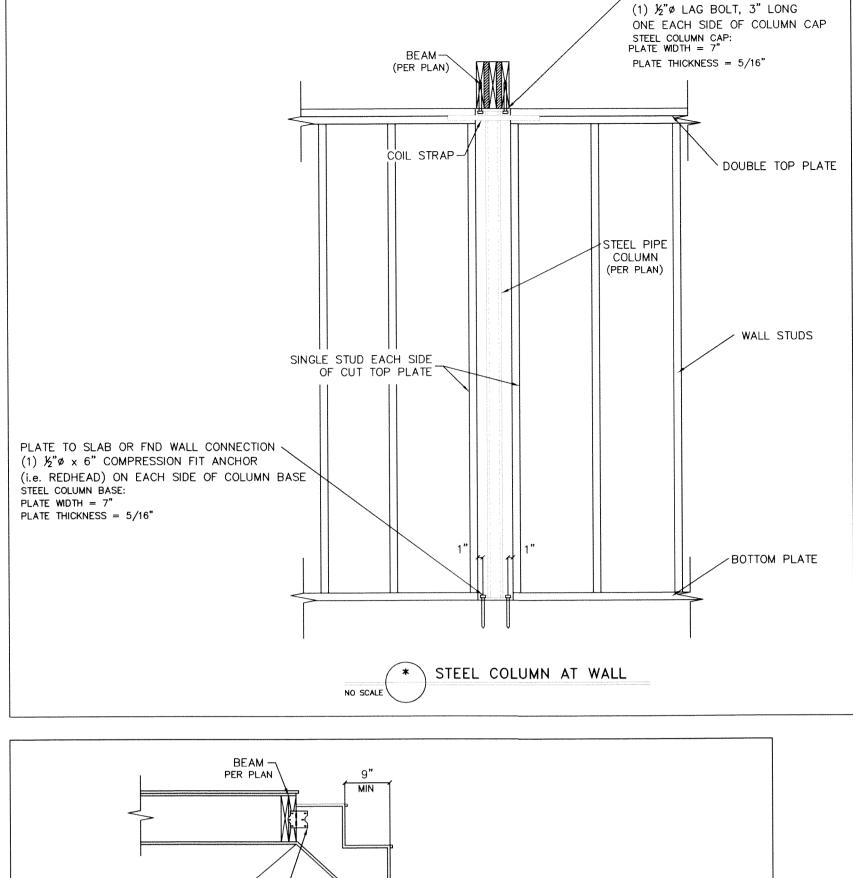
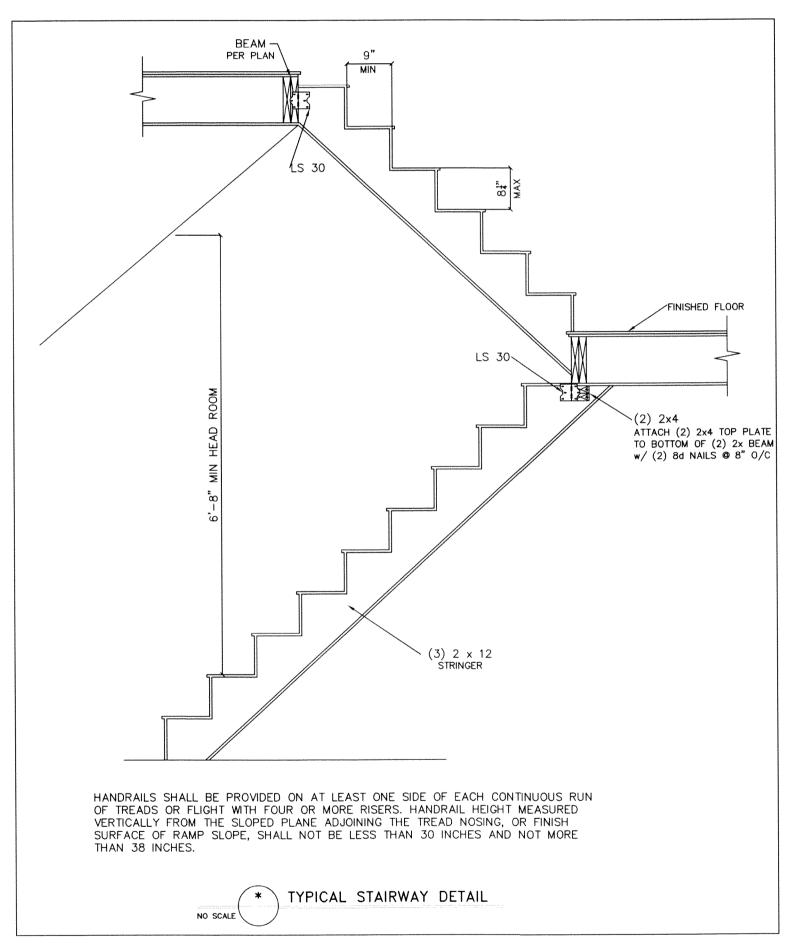
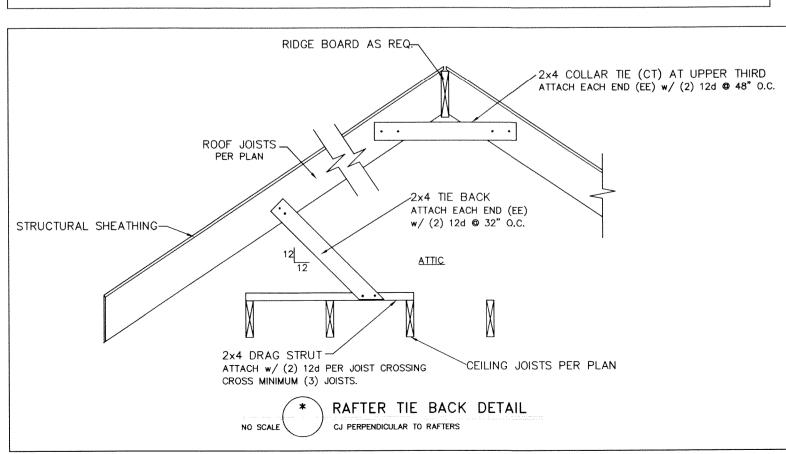
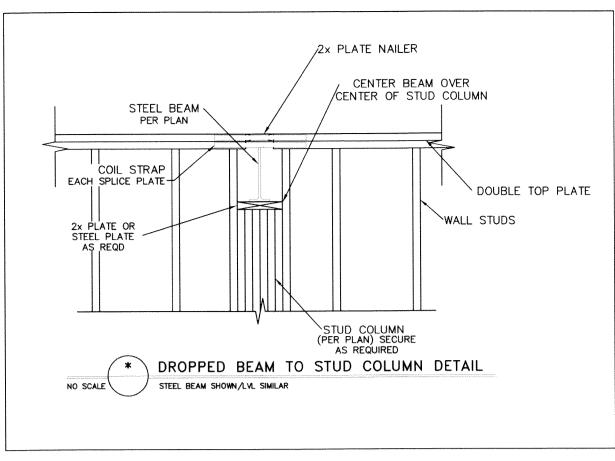
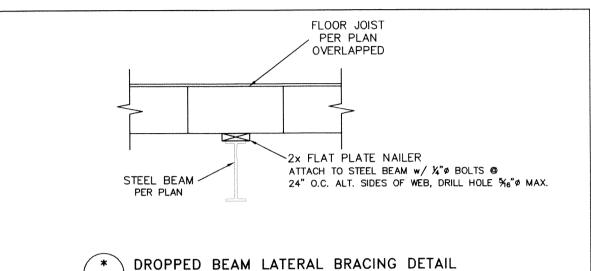


PLATE TO COLUMN CONNECTION



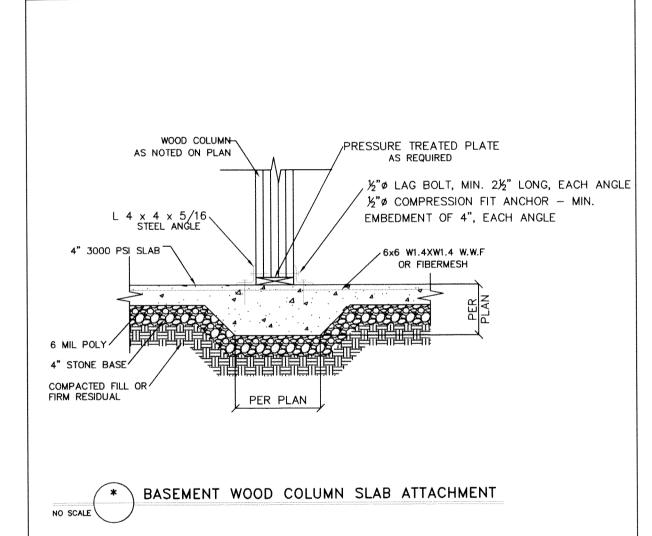


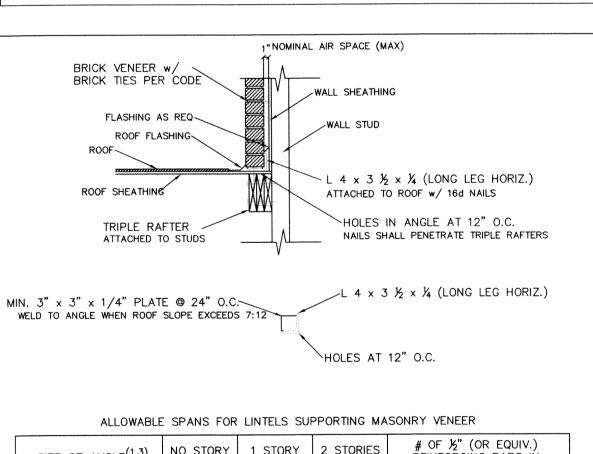




NO SCALE

STEEL BEAM SHOWN/LVL SIMILAR





ALLOWABLE SPANS FOR LINIELS SUPPORTING MASONRY VENEER					
SIZE OF ANGLE ^(1,3)	NO STORY ABOVE(5)	1 STORY ABOVE(5)	2 STORIES ABOVE (5)	# OF ½" (OR EQUIV.) REINFORCING BARS IN REINFORCED LINTEL(2,4,5)	
L 3 × 3 × 1/4	6'-0"	4'-6"	3'-0"	1	
L 4 × 3 × 1/4	8'-0"	6'-0"	4'-6"	1	
L 5 × 3 ½ × ¾6	10'-0"	8'-0"	6'-0"	2	
L 6 x 3 ½ x ¾	14'-0"	9'-6"	7'-0"	2	
2L 5 × 3 ½ × 5/6	20'-0"	12'-0"	9'-6"	4	

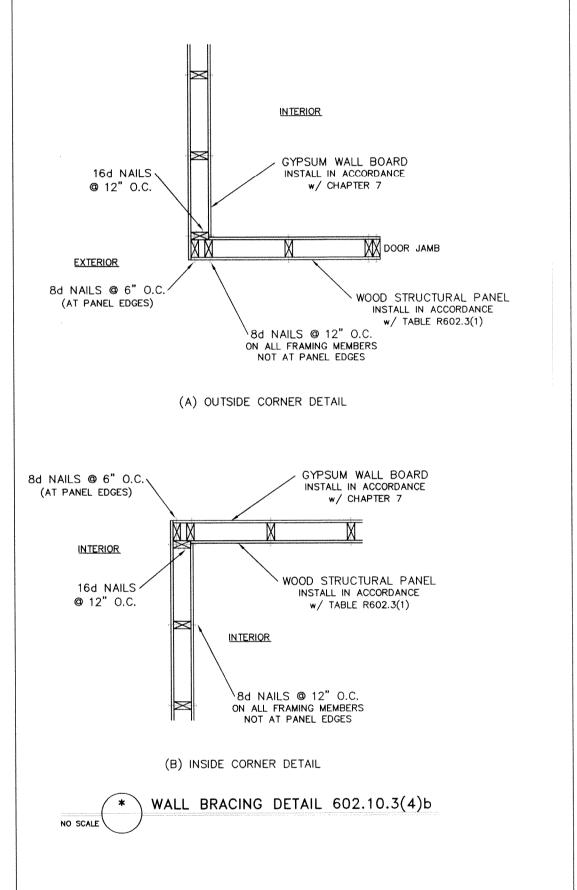
- 1. LONG LEG OF THE ANGLE SHALL BE PLACED IN A VERTICAL POSITION. 2. DEPTH OF REINFORCED LINTELS SHALL NOT BE LESS THAN 8" AND ALL CELLS OF HOLLOW MASONRY LINTELS SHALL BE GROUTED. REINFORCING BARS SHALL EXTEND NOT LESS THAN 8" INTO THE SUPPORT.
- 3. STEEL MEMBERS INDICATED ARE ADEQUATE TYPICAL EXAMPLES; OTHER STEEL MEMBERS MEETING STRUCTURAL DESIGN REQUIREMENTS SHALL BE PERMITTED TO BE USED.

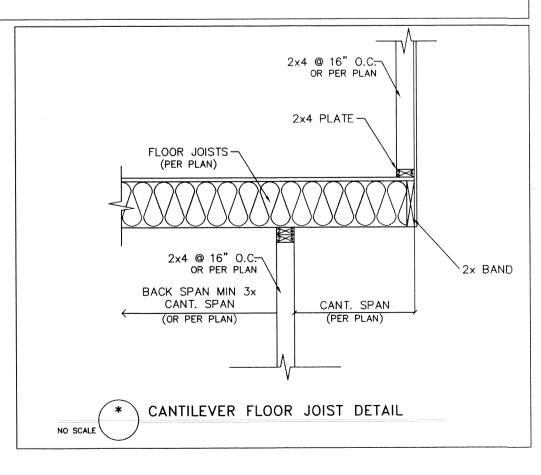
 4. EITHER STEEL ANGEL OR REINFORCED LINTEL SHALL SPAN OPENING

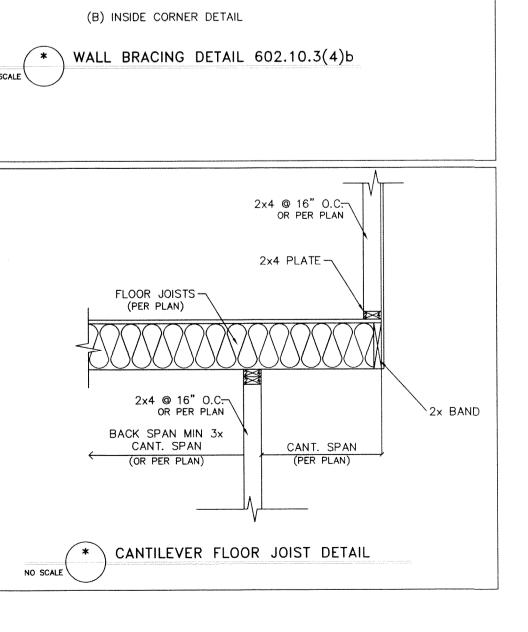
5. SPANS OVER 4'-0" SHALL BE SHORED UP UNTIL CURED

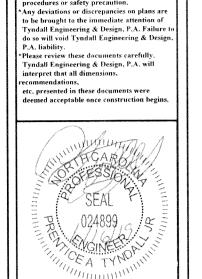
MASONRY VENEER SUPPORT FIG 703.8.3.1

HARDWARE CRO	SS-REFERENCE CHART			
SIMPSON STRONG-TIE	USP STRUCTURAL CONNECTORS			
PRODUCT NUMBER	PRODUCT NUMBER			
A35	MPA1			
ABE	PAE			
CBSQ	CBSQ			
CCQ	KCCQ			
CMSTC16	CMSTC16			
CS	RS			
H1	RT15			
H2.5A	RT7A			
H10	RT16			
HDQ8-SDS3	UPHD8			
HDU2-SDS2.5	PHD2			
HDU5-SDS2.5	PHD5			
HETA	НТА			
HGAM10KTA	HGAM			
HHDQ14-SDS2.5	UPHD14			
HTS	HTW			
HTT	нтт			
HUS	HUS			
LTA1	LPTA			
LTHJA26	HJC26			
LTP4	MP4F			
LUS	JUS			
MAS ·	FA3			
MSTAM	MSTAM			
PC	PCM			
PHD-SDS3	PHD			
SSP	RSPT6			
STC	TR1			
STHD	STAD			









*Engineers seal does not include construc means, methods, techniques, sequences,

procedures or safety precaution.



AN

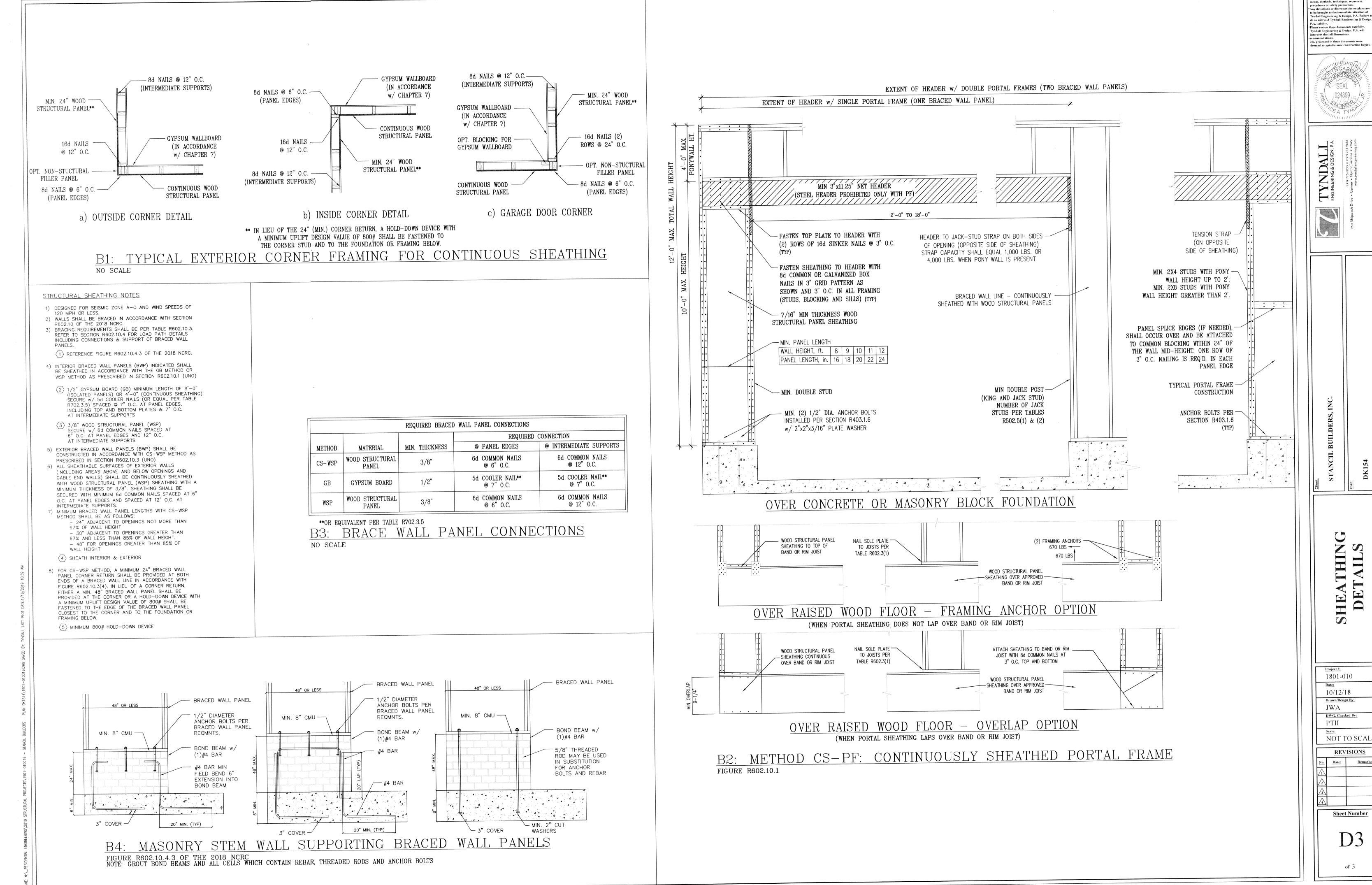
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STUD POCKET (2) 2x4 STUD COLUMNS

* TYPICAL WINDOW STUD POCKET DETAIL



NOT TO SCALE Remarks