	LIVE LOAD	DEAD LOAD
TABLE R301.4	(PSF)	(PSF)
DWELLING UNITS	40	10
SLEEPING ROOMS	30	10
ATTICS WITH STORAGE	20	10
ATTICS WITHOUT STORAGE	10	10
ROOF SNOW	20	10
STAIRS	40	10
DECKS	40	10
EXTERIOR BALCONIES	60	10
PASSENGER VEHICLE GARAGES	50	
FIRE ESCAPES	40	10
GUARDRAILS AND HANDRAILS	200	

MATERIALS

1. FRAMING LUMBER SHALL BE #2 SPRUCE PINE FIR (SPF) WITH THE FOLLOWING DESIGN PROPERTIES: Fb = 875 PSI Fv = 70 PSI E = 1.4E6 PSI

2. FRAMING LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND, CONCRETE OR MASONRY SHALL BE #2 SOUTHERN YELLOW PINE (SYP) TREATED IN ACCORDANCE WITH AWPA C22 WITH THE FOLLOWING DESIGN PROPERTIES: $Fb = 1050 \ PSI$ $Fv = 95 \ PSI$ $E = 1.6E6 \ PSI$

3. ENGINEERED WOOD BEAMS SHALL BE LAMINATED VENEER LUMBER (LVL) OR PARALLEL STRAND LUMBER (PSL) WITH THE FOLLOWING MINIMUM DESIGN PROPERTIES: $Fb = 2900 \ PSI$ $Fv = 285 \ PSI$ $E = 1.9E6 \ PSI$

4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A-36 MINIMUM GRADE.

5. BOLTS SHALL CONFORM TO A307 MINIMUM GRADE.

6. REBAR SHALL BE DEFORMED STEEL CONFORMING TO ASTM A615 GRADE 60.

7. POURED CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS. MATERIALS USED TO PRODUCE CONCRETE SHALL COMPLY WITH THE APPLICABLE STANDARDS LISTED IN ACI 318 OR ASTM C 1157.

8. CONCRETE LOCATED PER TABLE R402.2 SHALL BE AIR ENTRAINED WITH THE TOTAL AIR CONTENT NOT LESS THAN 5 PERCENT OR MORE THAN 7 PERCNET.

9. MASONRY UNITS SHALL CONFORM TO ACI 530/ASCE 5/TMS 402 AND MORTAR SHALL COMPLY WITH ASTM C 270.

10. ALLOWABLE SOIL BEARING PRESSURE 2000 PSF.

GENERAL

ENGINEER'S SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY. ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION METHODS OR ANY DEVIATION FROM THE PLANS

ALL CONSTRUCTION, WORKMANSHIP, MATERIAL QUALITY AND SELECTION SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA STATE BUILDING CODE - RESIDENTIAL CODE 2018 EDITION FROM THE INTERNATIONAL RESIDENTIAL CODE 2018 (IRC), AND LOCAL CODES AND REGULATIONS. DIMENSIONS SHALL GOVERN OVER SCALE AND CODE SHALL GOVERN OVER DIMENSIONS.

ADDITIONAL LOADS

FIGURE R301.2(4) - BASIC DESIGN WIND SPEED 100 MPH

FIGURE R301.2(2) - SEISMIC DESIGN CATEGORY B

TABLE R301.2(4) - DESIGN POSITIVE AND NEGATIVE PRESSURE FOR DOORS AND WINDOW FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF

TABLE R301.2(2) - COMPONENT AND CLADDING LOADS FOR A MEAN ROOF HEIGHT OF 30 FEET OR LESS LOCATED IN EXPOSURE R

ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE DESIGNED BASED ON ROOF PITCHES AS FOLLOWS: 45.4 PSF FOR 0:12 TO 2:25:12, 34.8 PSF FOR 2:25:12 TO 7:12 AND 21 PSF FOR 7:12 TO 12:12 WALL CLADDING IS DESIGNED FOR A 24.1 PSF POSITIVE AND NEGATIVE PRESSURE

ENERGY COMPLIANCE:

TABLE N1102.1 - REFER TO TABLE N1101.1 TO DETERMINE THE CLIMATE ZONE BY COUNTY AND REFER TO TABLE N1102.1 FOR R VALUE INSULATION REQUIREMENTS LISTED BY ZONE.

<u>TABLE N1102.1 - ZONE 8</u> - MAX. GLAZING U FACTOR: 0.40. MIN. INSULATION R VALUES: CEILING <u>R-30</u>, WALLS <u>R-13</u>, FLOORS <u>R-19</u>, BASEMENT WALLS <u>R-8</u>, SLAB PERIMETER <u>R-5</u> (2 FT DEEP), CRAWL SPACE WALLS <u>R-10</u>.

CONSTRUCTION

1. STEEL FLITCH BEAMS SHALL BE FASTENED TOGETHER WITH 1/2" DIAMETER BOLTS WITH WASHERS PLACED UNDER THE THREADED END OF THE BOLT. BOLTS SHALL BE SPACED AT MAXIMUM 24" o.c. STAGGERED TOP AND BOTTOM OF BEAM WITH A MINIMUM 2" EDGE DISTANCE. TWO BOLTS SHALL BE LOCATED AT 6" FROM EACH END OF FLITCH BEAM.

2. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" AND FULL FLANGE WIDTH. BEAMS MUST BE ANCHORED AT EACH END WITH A MINIMUM OF FOUR 16d NAILS OR TWO 1/2" x 4" LAG SCREWS.

3. ENGINEERED WOOD BEAMS SHALL BE INSTALLED WITH ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

4. ALL BEAMS SHALL BE CONTINUOUSLY SUPPORTED LATERALLY AND SHALL BEAR FULL WIDTH ON THE SUPPORTING WALLS OR COLUMNS INDICATED WITH A MINIMUM OF THREE STUDS.

5. SOLID BLOCKING SHALL BE PROVIDED AT ALL POINT LOADS TO TRANSFER LOADS THROUGH FLOOR LEVELS. COLUMNS SHALL BE CONTINUOUS TO THE FOUNDATION OR TO OTHER STRUCTURAL ELEMENTS.

6. ENGINEERED WOOD FLOOR SYSTEMS AND ROOF TRUSS SYSTEMS SHALL BE PROVIDED FOR REVIEW AND COORDINATED WITH THE ENGINEER OF RECORD. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

7. WALL BRACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION R602.10 OF THE NORTH CAROLINA RESIDENTIAL CODE.

8. BRICK LINTELS SHALL BE 3 $1/2 \times 3 \cdot 1/2 \times 1/4$ STEEL ANGLE FOR UP TO 6'0" MAXIMUM SPAN AND 6 $\times 4 \times 5/16$ FOR SPANS GREATER THAN 6'0".

9. BRICK LINTELS AT SLOPED AREAS SHALL BE 4 x 3 1/2 x 1/4 STEEL ANGLE WITH 16d NAILS IN 3/16" HOLES IN 4" ANGLE LEG AT 12" o.c. TO DOUBLE RAFTER. WHEN THE SLOPE EXCEEDS 4:12 A MINIMUM OF 3 x 3 x 1/4 PLATES SHALL BE WELDED AT 24" o.c. ALONG THE STEEL ANGLE.

MEAN ROOF HEIGHT

1 STORY = 11'-0"
CLADDING POSITIVE & NEGATIVE PRESSURE = 21
PSF

1 1/2 STORY = 19'-0"
CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

2 STORY = 19'-0"

CLADDING POSITIVE & NEGATIVE PRESSURE = 34.8 PSF

ANCHOR BOLTS

INSTALL ANCHOR BOLTS, NUTS, AND WASHERS
PER CODE AT ALL EXTERIOR WALL
TREATED PLATES AND AT INTERIOR BEARING

WALL TREATED PLATES ON SLAB

FOUNDATIONS. TO BE A MINIMUM OF 6' O.C. AND WITHIN 12" FROM THE ENDS OF EACH PLATE.

DESIGN PRESSURES MINIMUM RATING: 25 PSF

MI WINDOWS 3500 SERIES LOW E-GLASS WINDOWS

	ABBREVIATIONS	<u> </u>
	CONC CONT DBL DJ DSP EA FL PT FTG HGR LVL NTS OC PSL PT SC SP TJ TYP UNO	CONCRETE CONTINUOUS DOUBLE DOUBLE JOIST DOUBLE STUD POCKET EACH FLAT PLATE FOOTING HANGER LAMINATED VENEER LUMBER NOT TO SCALE ON CENTER PARALLEL STRAND LUMBER PRESSURE TREATED STUD COLUMN STUD POCKET TRIPLE JOIST TYPICAL
ı		UNLESS NOTED OTHERWISE

Ball Residence Lot 24 Prince Place Plan # 2434

SQUARE FOOTAGE					
	HEATED SQUARE FT.	UNHEATED SQUARE FT.			
FIRST FLOOR	1405				
SECOND FLOOR	1029				
FRONT PORCH		129			
SCREEN PORCH		120			
2 CAR GARAGE		461			
TOTAL	2434	710			

	REVISION LOG						
Rev	Description	Drawn By	Date	Sheets Affected	Brochure Required	Engineering Required	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
13							
14							

TABLE N1102.1 CLIMATE ZONES 3-5

CLIMATE ZONES	FENESTRATION U-FACTOR b	SKYLIGHT ^b U-FACTOR	GLAZED FENESTRATION SHGC b,e	CEILING ^k R-VALUE	WOOD FRAMED WALL R-VALUE	MASS WALL R-VALUE İ	FLOOR R-VALUE	BASEMENT ^C WALL R-VALUE	SLAB ^d R-VALUE AND DEPTH	CRAWL SPACE ^C WALL R-VALUE
3	0.35	0.65	0.30	30	13	5/10	19	10/13 ^f	0	5/13
4	0.35	0.60	0.30	38 OR 30 CONT j	15 OR 13+2.5 ^h	5/10	19	10/13	10 ^d	10/13
5	0.35	0.60	NR	38 OR 30 CONT j	19 OR 13+5 OR 15+3e,h	13/17	30 g	10/13	10 ^d	10/13

- a. R-VALUES ARE MINIMUMNS. U-FACTORS AND SHGC ARE MAXIMUMS.
- b. THE FENESTRATION U-FACTOR COLUMN EXCLUDED SKYLIGHTS. THE SHGC COLUMN APPLIES TO ALL GLAZED FENESTRATION.
 c. "10/13" MEANS R-10 CONT. INSULATED SHEATHING ON THE INTERIOR OF EXTERIOR OF THE HOME OR R-13 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 18 INCHES BELOW GRADE,
- d. FOR MONOLITHIC SLABS, INSULATION SHALL BE APPLIED FROM THE INSPECTION GAP DOWNWARD TO THE BOTTOM OF THE FOOTING OR A MAXIMUM OF 18 INCHES BELOW GRADE,
 WHICHEVER IS LESS. FOR FLOATING SLABS, INSULATION SHALL EXTEND TO THE BOTTOM OF THE FOUNDATION WALL OR 24 INCHES, WHICHEVER IS LESS. R-5 SHALL BE ADDED TO THE
 REQUIRED SLAB EDGE R-VALUE FOR HEATED SLABS.
- e. R-19 FIBERGLASS BATTS COMPRESSED AND INSTALLED IN A NOMINAL 2x6 CAVITY IS DEEMED TO COMPLY. FIBERGLASS BATTS RATED R-19 OR HIGHER COMPRESSED AND INSTALLED IN A 2x4 WALL IS NOT DEEMED TO COMPLY.
- f. BASEMENT WALL INSULATION IS NOT REQUIRED IN WARM-HUMID LOCATIONS AS DEFINED BY FIGURE N1101.2 (1 AND 2) AND TABLE N1101.2. q. OR INSULATION SUFFICIENT TO FILL THE FRAMING CAVITY, R-19 MINIMUM.
- h. "13+5" MEANS R-13 CAVITY INSULATION PLUS R-5 INSULATED SHEATHING. 15+3 MEANS R-15 CAVITY INSULATION PLUS R-3 INSULATED SHEATHING. IF STRUCTURAL SHEATHING COVERS 25
 PERCENT OR LESS OF THE EXTERIOR, INSULATING SHEATHING IS NOT REQUIRED WHERE STRUCTURAL SHEATHING IS USED. IF THE STRUCTURAL SHEATHING COVERS MORE THAN 25 PERCENT
 OF THE EXTERIOR, STRUCTURAL SHEATHING 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 OF THE MASS WALL.
 j. R-30 SHALL BE DEEMED TO SATISFY THE CEILING INSULATION REQUIREMENT WHEREVER THE FULL HEIGHT OF THE 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"
- k. TABLE VALUE REQUIRED EXCEPT FOR ROOF EDGE WHERE THE SPACE IS LIMITED BY THE PITCH OR THE ROOF, THERE THE INSULATION MUST FILL THE SPACE UP TO THE AIR BAFFLE.

ATTIC VENT SCHEDULE																		
ELEVATION																		
MAIN HOUSE		SQ FTG	3878	AT / NEAR RIDGE		3878 AT / NEAR RIDGE AT /		AT / NE	AR EAVE									
VENT TYPE	SQ. FT. VENT TYPE REQUIRED RANGE		SQ. FT.	PERCENT OF TOTAL	POT LARGE (SQ. FT. EACH)	POT SMALL (SQ. FT. EACH)	RIDGE VENT (SQ. FT. PER LF)	EAVE VENT (SQ. IN. EACH)	CONT. VENT (SQ. IN. PER LF)									
72.11112			SUPPLIED	SUPPLIED	SUPPLIED	SUPPLIED	SUPPLIED	SUPPLIED	SUPPLIED 	SUPPLIED	SUPPLIED	SUPPLIED	SUPPLIED	SUPPLIED	SUPPLIED	0.4236	0.2778	0.125
RIDGE VENT	5.17	6.46	21.13	65.50	0	0	169.00											
SOFFIT VENTS	7.76	6.46	11.13	34.50				0	178.00									
TOTAL (MIN)	12.93	12.93	32.25	100.00	POT VENTS MAY BE REQUIRED IF THERE IS INSUFFICIENT RIDGE AVAILABLE													

* SCHEDULE HAS BEEN CALCULATED ASSUMING EAVE VENTILATION AT 50-60% OF TOTAL AND RIDGE AT 40-50% OF TOTAL REQUIRED VENTILATION

© COPYRIGHT 2022 SOUTH DESIGNS, INC.



SOUTH DESIGNS

P.O. Box 688 Wake Forest, NC 27587 (O) 919-556-2226 (F) 919-556-2228 www.southdesigns.com

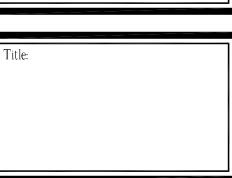
Drawn By:	RWB
Checked By:	RWB
Date: 3-1	1-2021
Revision No.	Revision Date

This plan is the property of South Designs, Inc. and may not be used or reproduced without the expressed written consent of South Designs, Inc. These drawings are offered to the named client for a conditional one time use. The conditional use is limited to the lot or property as specified herein, and only for said location.

South Designs, Inc. assumes no liability for any home constructed from these plans.

Contractor or builder shall verify all dimensions and conditions prior to construction. Caution must be exercised when making changes to these drawings. If changes are made to these drawings, contact South Designs.



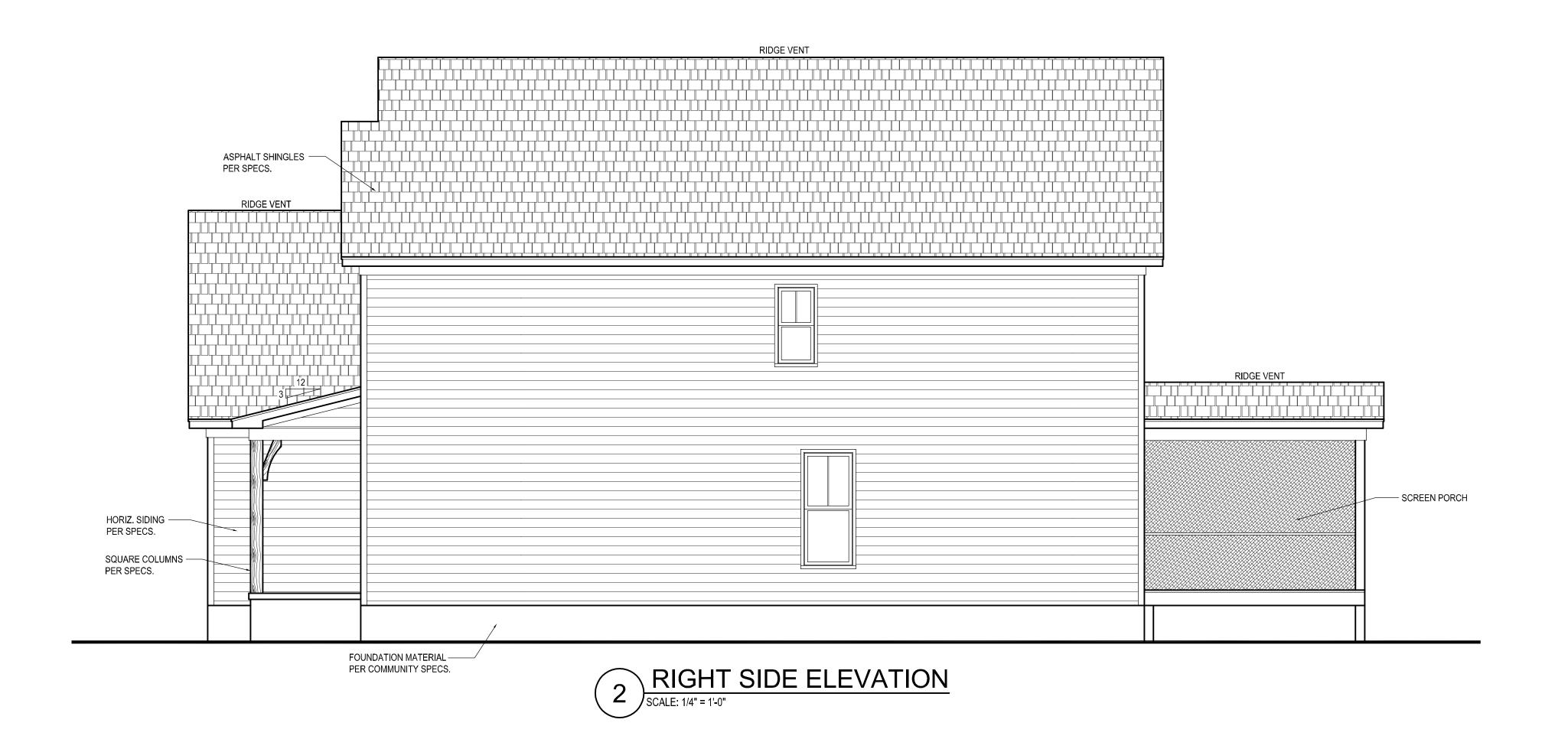


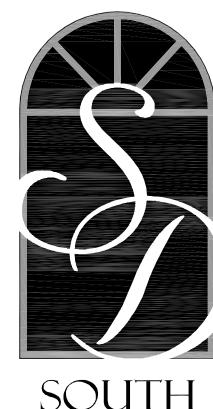
Plan No. 2434

Sheet No. Of





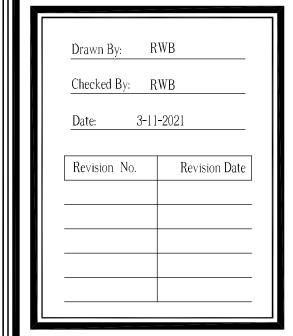




SOUTH

Wake Forest, NC 27587 (O) 919-556-2226 (F) 919-556-2228 www.southdesigns.com

P.O. Box 688



This plan is the property of South Designs, Inc. and may not be used or reproduced without the expressed written consent of South Designs, Inc. These drawings are offered to the named client for a conditional one time use. The conditional use is limited to the lot or property as specified herein, and only for said location.

South Designs, Inc. assumes no liability for any home constructed from these plans.

Contractor or builder shall verify all dimensions and conditions prior to construction. Caution must be exercised when making changes to these drawings. If changes are made to these drawings, contact South Designs.

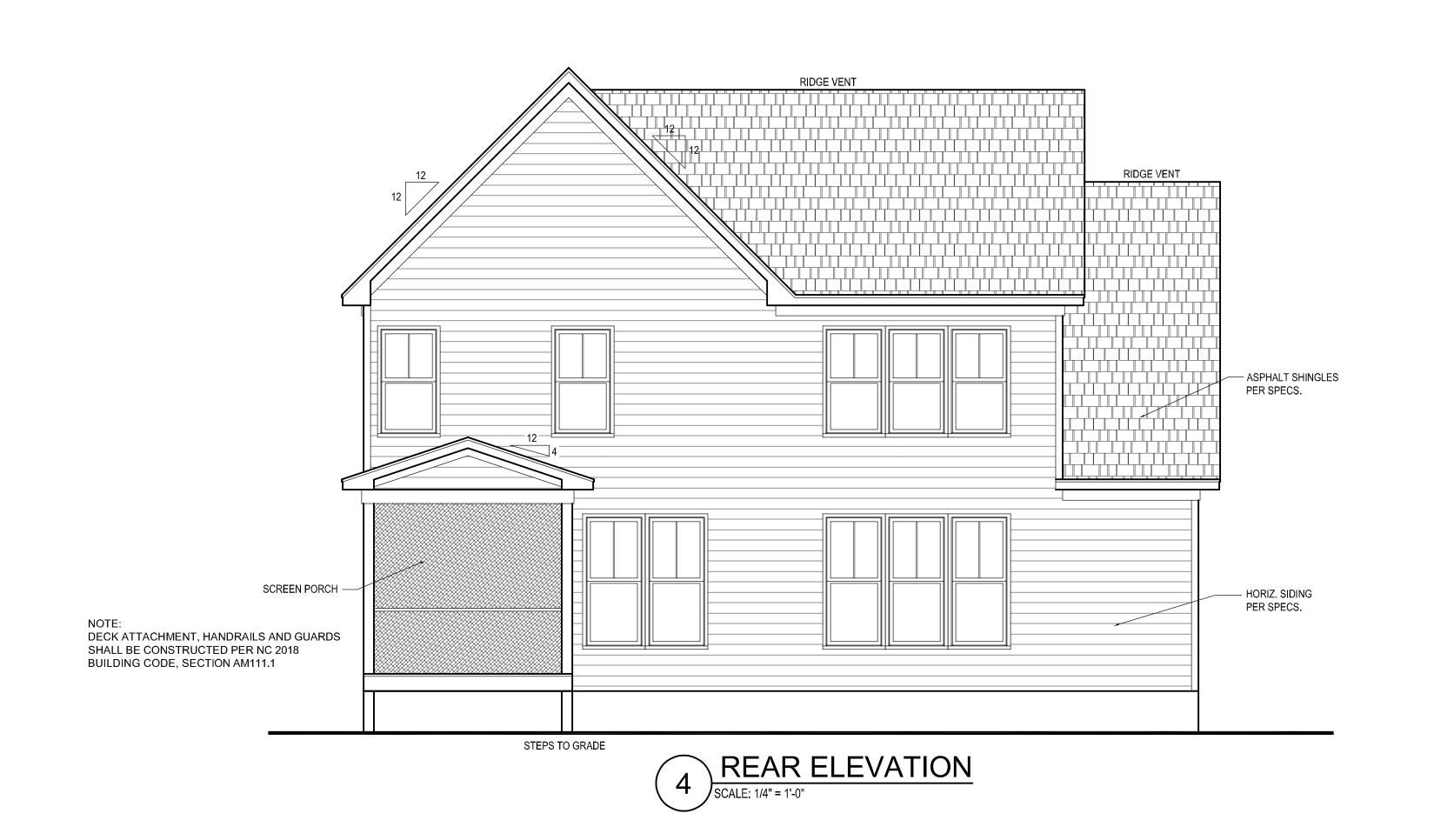
Ball Residence

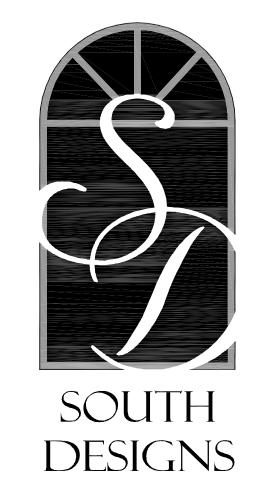
Title:		

Plan No.
2434

Sheet No. Of







P.O. Box 688
Wake Forest, NC 27587
(O) 919-556-2226
(F) 919-556-2228
www.southdesigns.com

Drawn By:	RWB
Checked By:	RWB
<u>Date: 3-1</u>	1-2021
Revision No.	Revision Date

This plan is the property of South Designs, Inc. and may not be used or reproduced without the expressed written consent of South Designs, Inc. These drawings are offered to the named client for a conditional one time use. The conditional use is limited to the lot or property as specified herein, and only for said location.

South Designs, Inc. assumes no liability for any home constructed from these plans.

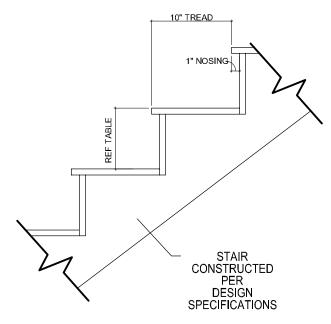
Contractor or builder shall verify all dimensions and conditions prior to construction. Caution must be exercised when making changes to these drawings. If changes are made to these drawings, contact South Designs.

Ball Residence

		7
Title:		
		Ì
		I
		ľ
		ı

Plan No. 2434

Sheet No. Of



RISER HEIGHTS PER STAIR CONFIGURATION						
PLATE HEIGHT	10" FLOOR SYSTEM	14" FLOOR SYSTEM	16" FLOOR SYSTEM			
8'-1 1/2"	14 RISERS @ 7 11/16"	15 RISERS @ 7 1/2"	15 RISERS @ 7 5/8"			
9'-1 1/2"	16 RISERS @ 7 1/2"	16 RISERS @ 7 3/4"	17 RISERS @ 7 7/16"			
10'-1 1/2"	17 RISERS @ 7 3/4"	18 RISERS @ 7 9/16"	18 RISERS @ 7 11/16"			



NOTE:
HANDRAILS SHALL BE PROVIDE ON AT
LEAST ONE SIDE OF STAIR TREADS WITH
4, OR MORE RISERS. VERTICAL HT. OF
HANDRAILS SHALL BE NOT LESS THAN
34" AND NO MORE THAN 38" PER NC 2018
RESIDENTIAL CODE SEC. R311.7.8

GUARDS ON ALL HANDRAILS SHALL BE PLACED SO THAT A SPHERE OF 4" CANNOT PASS THROUGH PER NC 2018 RESIDENTIAL CODE SEC. R312.1

GENERAL NOTES

WALLS:
ALL WALLS ARE DRAWN 4"
THICK U.N.O.
ANGLED WALL ARE DRAWN

SMOKE DETECTORS: LOCATION AND NUMBER OF

DETECTORS SHALL CONFORM

EGRESS: ALL BEDROOMS MUST HAVE AT LEAST ONE WINDOW WHICH CONFORMS TO R-310 OF THE N.C. BLDG. CODE. IT IS THE CONTRACTOR'S RESPONSIBILITY
TO VERIFY CHOSEN WINDOWS MEET EGRESS REQUIREMENTS AS MANUFATURERS VARY

ATTIC ACCESS:

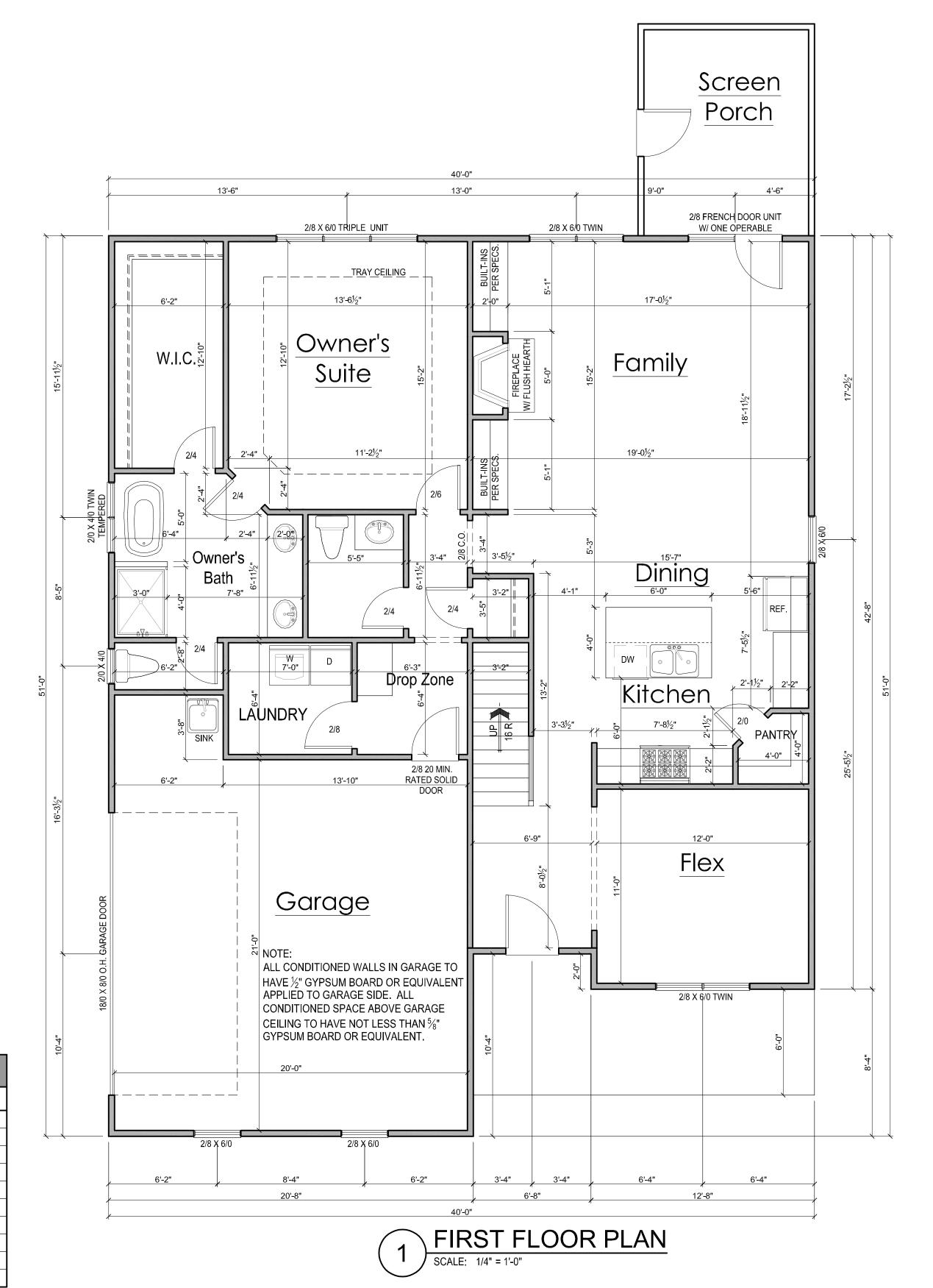
MIN. ATTIC ACCESS SHALL BE
PROVIDED BY BUILDER AND
LOCATED ON SITE.

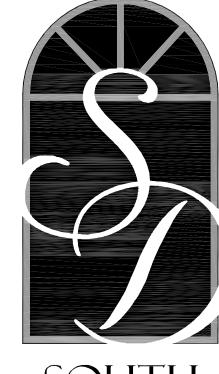
WALL/CEILING HGT. WALL AND CEILING HEIGHT

NOTES ARE BASED ON NOMINAL WALL SIZE.

KNEE WALL HEIGHT LABELS
FOR WALLS UNDER RAFTERS
ASSUME AN EXTRA 2" FOR
FURRING (IN HEATED SPACES) FOR INSULATION. THE WALL
HEIGHT REFERS TO THE HGT.
FROM THE FLOOR DECKING TO
THE BOTTOM OF THE FURRING.

SQUARE FOOTAGE						
	HEATED SQUARE FT.	UNHEATED SQUARE FT.				
FIRST FLOOR	1405					
SECOND FLOOR	1029					
FRONT PORCH		129				
SCREEN PORCH		120				
2 CAR GARAGE		461				
TOTAL	2434	710				





SOUTH DESIGNS

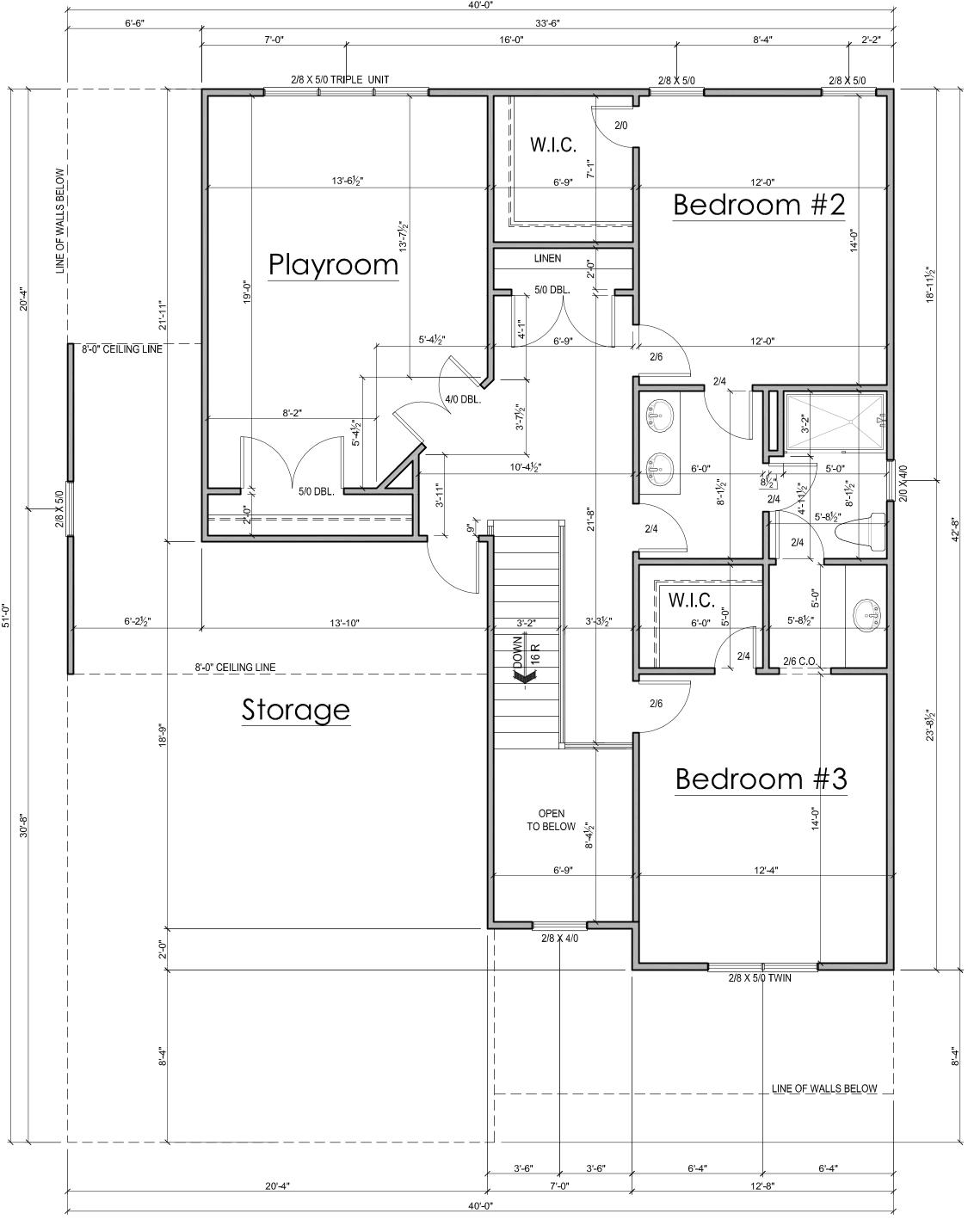
P.O. Box 688 Wake Forest, NC 27587 (O) 919-556-2226 (F) 919-556-2228 www.southdesigns.com

Drawn By: R	WB				
Checked By: R	Checked By: RWB				
<u>Date:</u> 3-11	Date: 3-11-2021				
Revision No.	Revision Date				

This plan is the property of South Designs, Inc. and may not be used or reproduced without the expressed written consent of South Designs, Inc. These drawings are offered to the named client for a conditional one time use. The conditional use is limited to the lot or property as specified herein, and only for said location.

South Designs, Inc. assumes no liability for any home constructed from these plans. Contractor or builder shall verify all dimensions and conditions prior to construction. Caution must be exercised when making changes to these drawings. If changes are made to these drawings, contact South Designs.

> Residen Ball



IF CLEAR OPENING OF THE OPERABLE PORTION OF A WINDOW IS MORE THAN 72" ABOVE GRADE, LOWEST PART OF OPENING MUST BE 24" ABOVE FLOOR UNLESS:

WALLS:
ALL WALLS ARE DRAWN 4"
THICK U.N.O.
ANGLED WALL ARE DRAWN

EGRESS:

MEET EGRESS REQUIREMENTS AS MANUFATURERS VARY.

ATTIC ACCESS:

A. WINDOW IS FIXED UNIT
B. OPENING DOES NOT ALLOW PASSAGE
4" d SPHERE
C. WINDOW IS EQUIPPED WITH FALL
PREVENTION DEVICE PER NCRC R612.2
THROUGH R612.4

D. WINDOW IS EQUIPPED WITH AN APPROVER.

D. WINDOW IS EQUIPPED WITH AN APPROVED
LIMITING DEVICE

GENERAL NOTES

@45° U.N.O. SMOKE DETECTORS:
LOCATION AND NUMBER OF
DETECTORS SHALL CONFORM

ALL BEDROOMS MUST HAVE
AT LEAST ONE WINDOW WHICH
CONFORMS TO R-310 OF THE
N.C. BLDG. CODE. IT IS THE
CONTRACTOR'S RESPONSIBILITY
TO VERIFY CHOSEN WINDOWS

MIN. ATTIC ACCESS SHALL BE PROVIDED BY BUILDER AND LOCATED ON SITE.

WALL/CEILING HGT.

WALL/CEILING FIGT.

WALL AND CEILING HEIGHT
NOTES ARE BASED ON NOMINAL
WALL SIZE.
KNEE WALL HEIGHT LABELS
FOR WALLS UNDER RAFTERS
ASSUME AN EXTRA 2" FOR
FURRING (IN HEATED SPACES)
FOR INSULATION. THE WALL
HEIGHT REFERS TO THE HGT.
FROM THE FLOOR DECKING TO
THE BOTTOM OF THE FURRING.

SOUTH DESIGNS

P.O. Box 688 Wake Forest, NC 27587 (O) 919-556-2226 (F) 919-556-2228 www.southdesigns.com

Drawn By: R	wB
Checked By: R	WB
<u>Date:</u> 3-11	-2021
Revision No.	Revision Date

This plan is the property of South Designs, Inc. and may not be used or reproduced without the expressed written consent of South Designs, Inc. These drawings are offered to the named client for a conditional one time use. The conditional use is limited to the lot or property as specified herein, and only for said location.

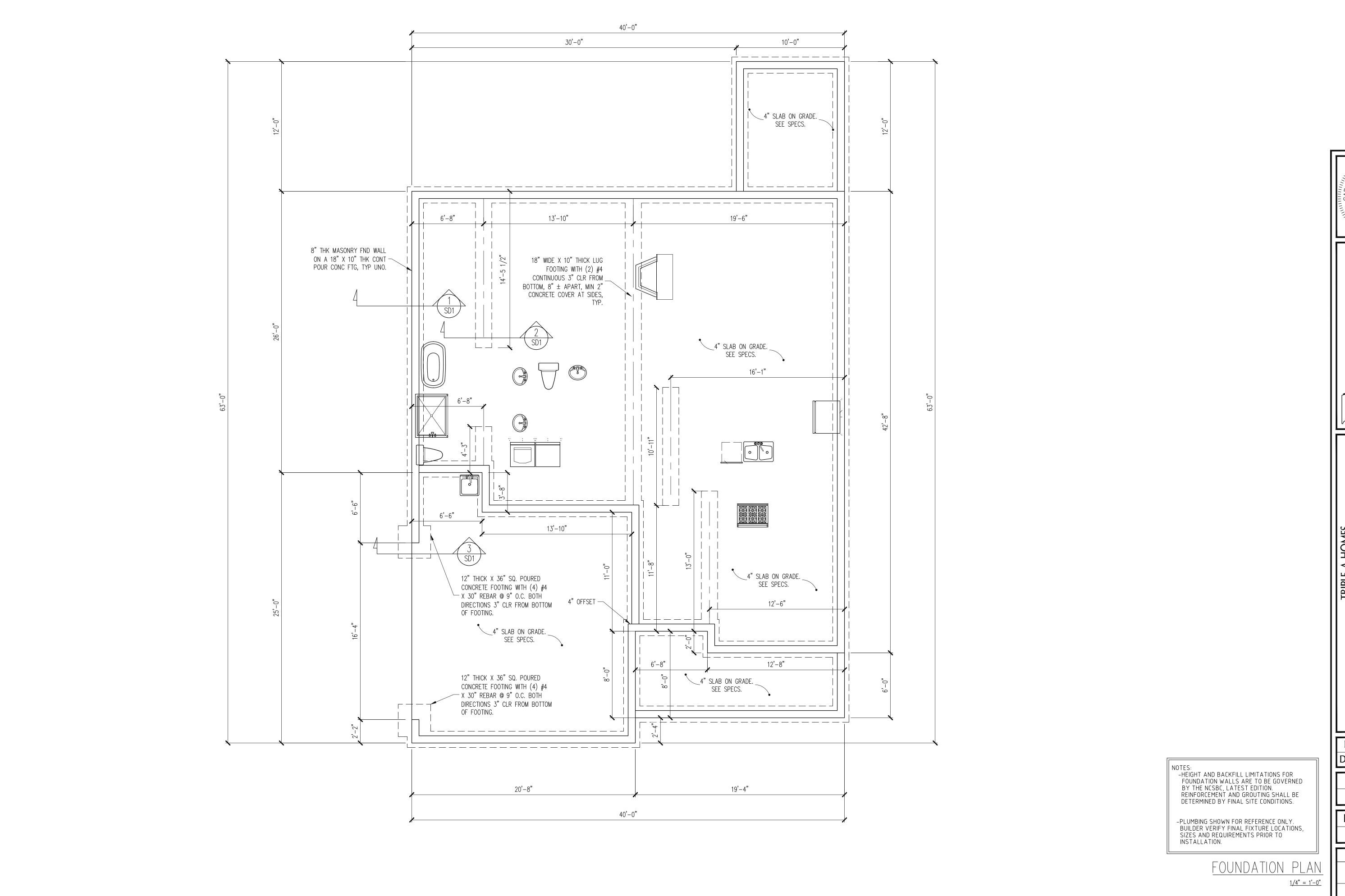
South Designs, Inc. assumes no liability for any home constructed from these plans. Contractor or builder shall verify all dimensions and conditions prior to construction. Caution must be exercised when making changes to these drawings. If changes are made to these drawings, contact South Designs.



Title:		

SECOND FLOOR PLAN

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



CARALLI CARALI CARALLI CARALLI CARALLI CARALLI CARALLI CARALLI CARALLI CARALLI

License No. C-3870
318 W. Millbrook Rd
Raleigh, North Carolina 27609
Phone (919) 844-1661

Ingineering ST

ASSOCIATES, P.A.

SCOPE: STRUCTURAL ADDENDUM
LOC: 24 PRINCE PLACE

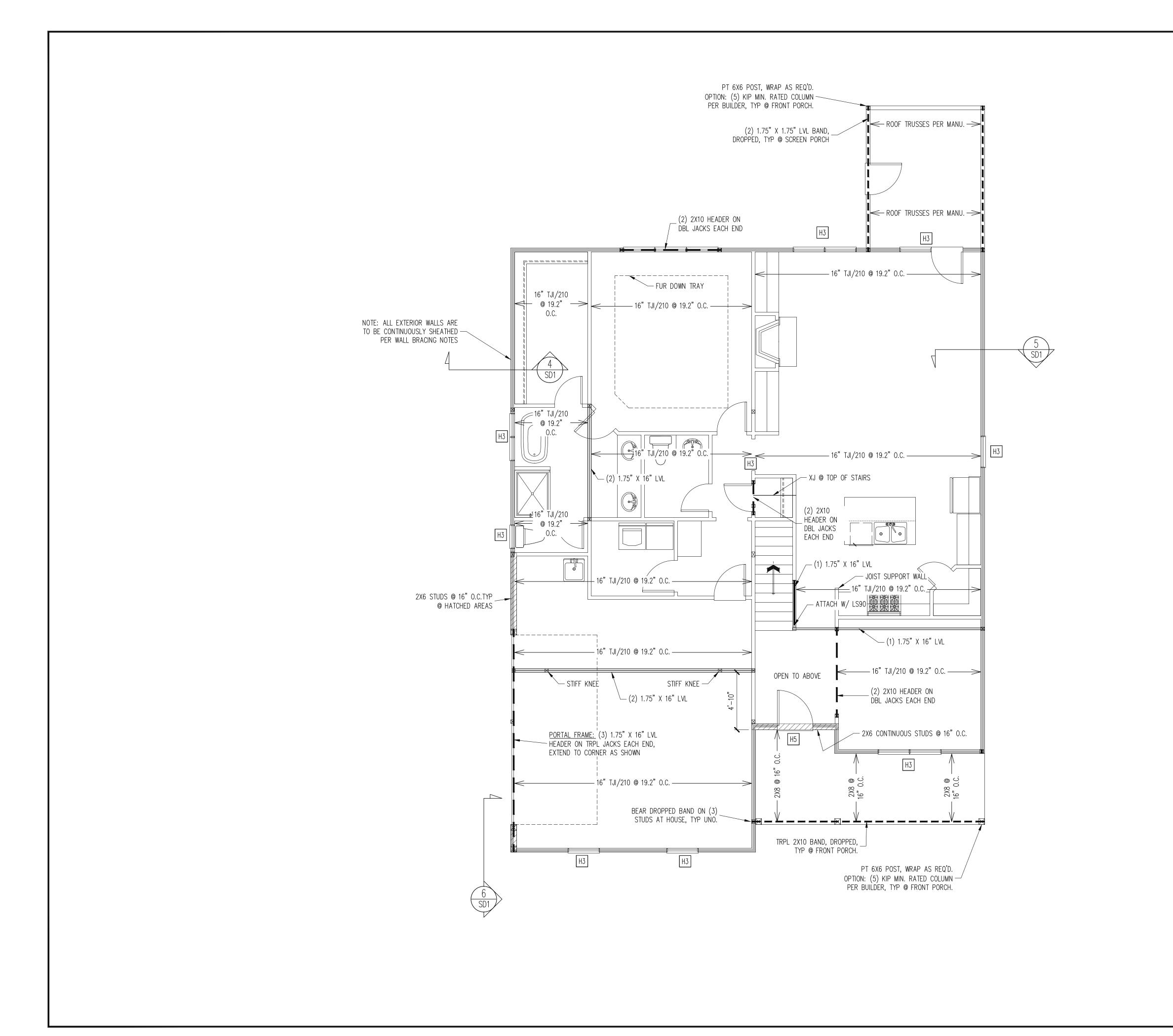
ENG: RJS/CR DATE: 2/28/2022

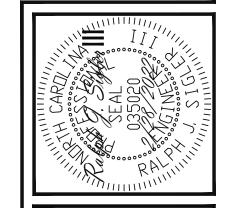
PROJECT NO. 22-28-007

SHEET NO.

S1

1 of 6





WALL BRACING

SHADED WALLS:

ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

PROVIDED CONTINUOUS SHEATHING = 186' MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

HEADER SCHEDULE

- H1 SINGLE 2X4 TURNED FLAT (A)
- H2 (2) 2X4'S ON SINGLE JACKS (B)
- H3 (2) 2X10'S ON SINGLE JACKS (C)
- H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS
- H5 (3) 2X10'S ON SINGLE JACKS -----
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.
- (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.
- (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.
- -HEADERS IN NON LOAD BEARING INTERIOR

CONSTRUCTION SPECIFICATIONS **INSTANT REFERENCES**

REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

WALLS ARE NOT LABELED.

PART 1.01: <u>CURRENT GOVERNING CODE</u>

PART 14: <u>STUD SUPPORT FOR BEAMS</u>

PART 17: KING STUDS FOR EXTERIOR WALLS

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

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

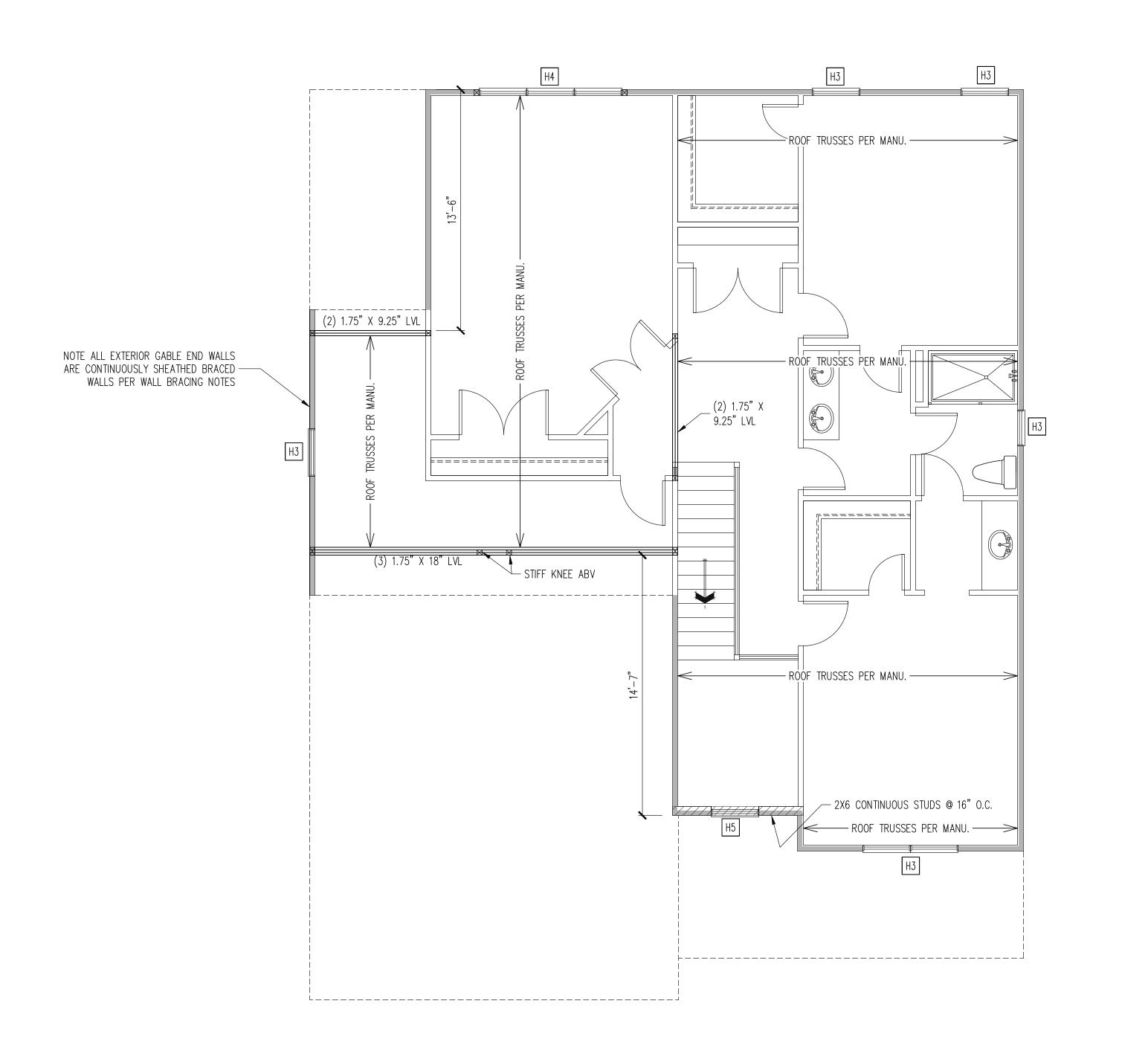
ENG: RJS/CR

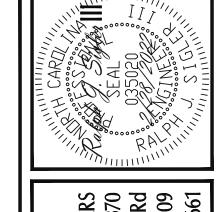
DATE: 2/28/2022

PROJECT NO. 22-28-007

SHEET NO.

2 of 6





WALL BRACING

SHADED WALLS:

ALL EXTERIOR STUD WALLS, EXTERIOR SIDE, ARE TO BE CONTINUOUSLY SHEATHED WITH 7/16 APA RATED OSB NAILED TO STUDS WITH 8d NAILS @ 6" O.C. AT PANEL EDGES, 12" O.C. IN PANEL FIELD.

PROVIDED CONTINUOUS SHEATHING = 117' MIN.

REFERENCE PART 16.02 OF CONSTRUCTION SPECIFICATIONS FOR GENERAL WIND BRACING INFORMATION.

HEADER SCHEDULE

- H1 SINGLE 2X4 TURNED FLAT (A)
- H2 (2) 2X4'S ON SINGLE JACKS (B)
- H3 (2) 2X10'S ON SINGLE JACKS (C)
- H4 (2) 1.75" X 9.25" LVL'S ON DBL JACKS
- H5 (3) 2X10'S ON SINGLE JACKS -----
- (A) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPENING 38" MAX.
- (B) TYPICAL FOR INTERIOR NON LOAD BEARING WALLS ONLY, ROUGH OPNG 38" TO 74" MAX.
- (C) TYPICAL FOR ALL CONDITIONS NOT LISTED IN (A) OR (B) UNO.

-HEADERS IN NON LOAD BEARING INTERIOR WALLS ARE NOT LABELED.

CONSTRUCTION SPECIFICATIONS INSTANT REFERENCES

REFER TO THE CONSTRUCTION SPECIFICATIONS SECTIONS FOR THE FOLLOWING INFORMATION:

PART 1.01: CURRENT GOVERNING CODE

PART 14: <u>STUD SUPPORT FOR BEAMS</u>

PART 17: KING STUDS FOR EXTERIOR WALLS

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

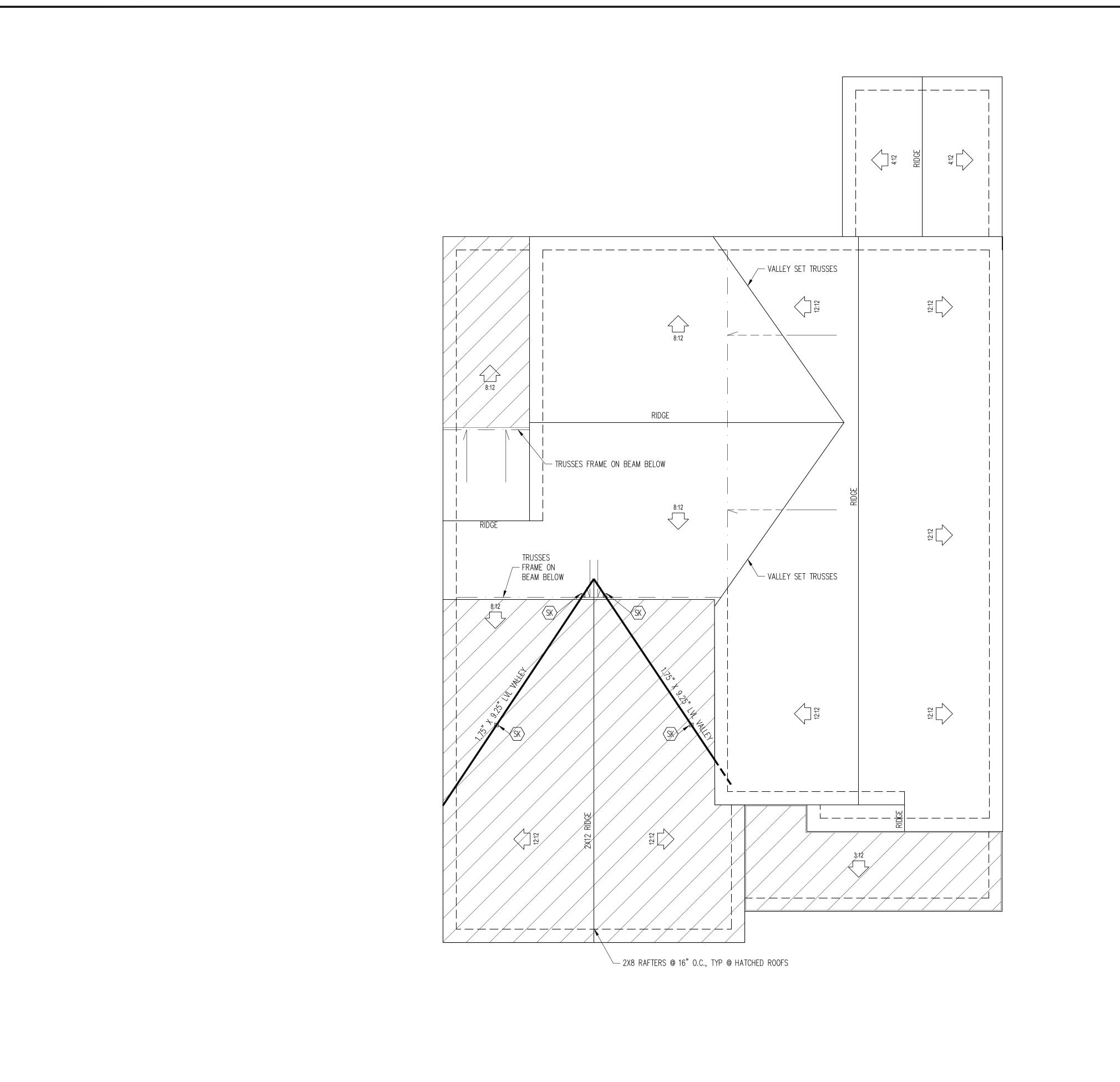
2ND FLOOR FRAMING PLAN

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

ENG: RJS/CR DATE: 2/28/2022

PROJECT NO. 22-28-007

SHEET NO. 3 of 6



TRUSS UPLIFT CONNECTORS EXPOSURE B, 115 MPH, ANY PITCH

24" O.C. MAX ROOF TRUSS SPACING TRUSSES SHALL BE ATTACHED TO SUPPORT WALL FOR UPLIFT RESISTANCE. CONTINUOUS OSB WALL SHEATHING BELOW PROVIDES CONTINUOUS UPLIFT RESISTANCE TO FOUNDATION. ALL TRUSSES SUPPORTED BY INTERMEDIATE SUPPORT WALLS, KNEEWALLS OR BEAMS SHALL BE ATTACHED TO SUPPORTING MEMBER PER SCHEDULE BELOW.

ROOF SPAN IS MEASURED HORIZONTALLY BETWEEN FURTHEST SUPPORT POINTS.

ROOF SPAN UP TO 28'

<u>CONNECTOR</u> NAILING PER TABLE 602.3(1) NCRBC 2018 EDITION (1) SIMPSON H2.5A HURRICANE CLIP TO DBL TOP PLATE OR BEAM OVER 28'

> FRAMING SCHEDULE ROOF ONLY

SK DBL 2X4 STIFF KNEE

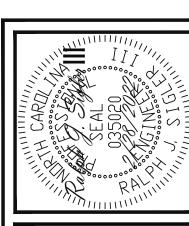
FRAMING NOTES ROOF ONLY

-COMMON RAFTERS 2X8 @ 16" O.C. TYP U.N.O. -COLLAR TIES 2X4 EVERY 3RD SET OF RAFTERS TYP U.N.O.

-VERIFY ROOF PITCHES, OVERHANG LENGTHS, AND KNEEWALL FRAMING HGTS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION, TYPICAL.

ROOF FRAMING PLAN

1/4" = 1'-0"

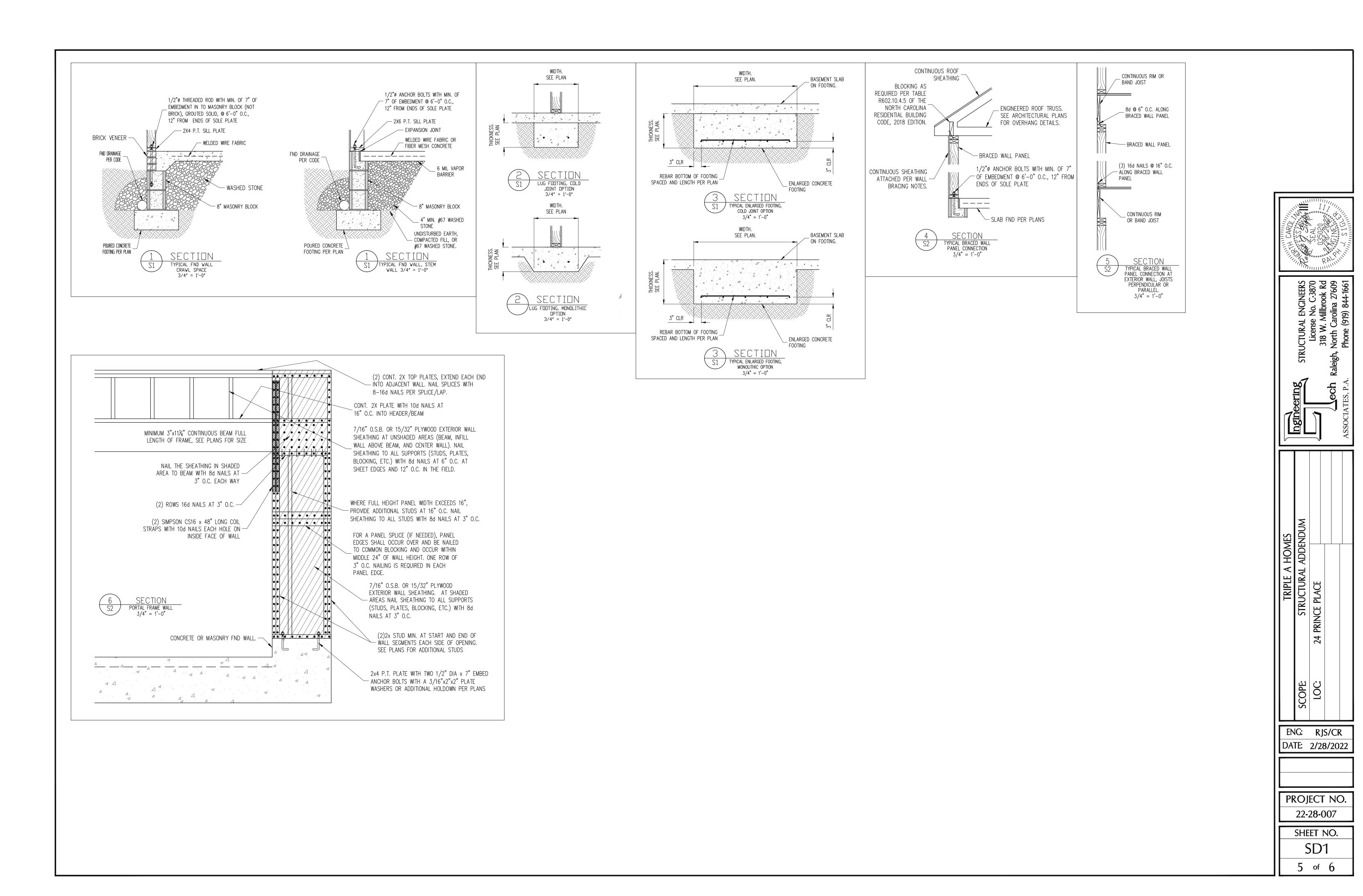


ENG: RJS/CR DATE: 2/28/2022

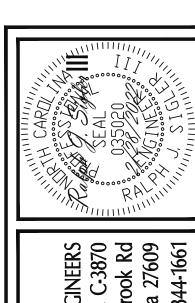
PROJECT NO.

22-28-007 SHEET NO.

S4 4 of 6



12 CAMPAGNET MATERIAL CONTROL OF AND ACTION ACTION AND ACTION AND ACTION	_	<u>CONSTRUCTION</u>	SP	ECIFICATION	<u>S</u>		_	
Control of the Contro	1 01		7.02	·	LIAIT CONFORM TO ASTM CS2 17	7 CDADE CW	MI	EAMS BEARING ONTO THE END OF A STUD WALL PARALLEL TO THE BEAM SHALL BEAINIMUM OF 3" ONTO THE WALL AND BE SUPPORTED BY A DBL STUD GANGED COLUMN
12 Print of Comment of Commen		CODE, 2018 EDITION.		MORTAR SHALL BE TYPE	S. MORTAR AND GROUT SHALL (EXTRA JOISTS BEARING ON A STUD WALL PERPENDICULAR TO OR SKEWED RELATIVE
## COMPLICATION COLUMN	1.05	METHODS. PROCEDURES AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF	7.04			FICATIONS OF ACI 530	14.04	STUDS THAT ARE GANGED TO FORM A COLUMN SHALL HAVE ADJACENT STUDS WITH
20. ALC DECORATION AND ALC PROPERTY OF THE STATE OF THE S		THE CONTRACTOR, WHO SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND INSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION.	7.05	LADDER WIRE REINFORCE	MENT SHALL CONFORM TO ASTM	A951. 6" MIN LAPS		THE COLUMN NAILED TOGETHER WITH ONE ROW OF 10d NAILS AT 8" O.C. (TWO RO' OF 10d NAILS @ 8" O.C., 3" APART, FOR 2X8 OR 2X10 STUDS) ALL COLUMNS SHAL BE CONTINUOUS DOWN TO THE FOUNDATION OR OTHER PROPERLY DESIGNED
## 1. **SALE CREATE COLOR 1997 0.01							STRUCTURAL ELEMENT SUCH AS A BEAM. COLUMNS TRANSFERRING LOADS THROUGH FLOOR LEVELS SHALL BE SOLIDLY BLOCKED FOR THE FULL WIDTH OF THE STUD COL	
Description of the Company of the	2.01		8.01	BOLTS SHALL CONFORM STEEL WASHERS (ASTM F	TO ASTM A307 MINIMUM GRADE 1 844—07a) FOR THE NUT / BOLT	TYP UNO. INSTALL STANDARD HEAD WHEN BOLTING WOOD		FLOOR JOISTS.
### 15 CONTROL OF THE PROPERTY		BALCONIES, DECKS, ATTICS WITH FIXED STAIR ACCESS. DWFILING UNITS INCLUDING ATTICS WITH	8.02				15.01	
AUTO STATE OF THE STATE 1997		FIXED STAIR ACCESS, STAIRS, FIRE ESCAPES 40 10		SHALL BE USED FOR LA NDS SPECIFICATIONS. IN:	G SCREW INSTÁLLATION AND SHA	ALL BE BORED ACCORDING TO		@ 16" O.C. FOR 2X10 OR LARGER, TWO ROWS OF 10d NAILS @ 16" O.C. FOR 2X8, (
Section 1997		ATTICS (NO STORAGE, LESS THAN 5' HEADROOM) 10 10	8.03	ANCHOR RODS AND BOL		554–15 GRADE 36 UNO. BENT	15.02	LVL MEMBERS THAT ARE GANGED TO FORM A BEAM SHALL HAVE ADJACENT MEMBE
100								UNO
## SET BLOOK OF A PART OF A STATE	OTES	: - INDIVIDUAL STAIR TREADS ARE TO BE DESIGNED FOR THE UNIFORMLY DISTRIBUTED	9.01	NAILS, SPIKES AND STAF		1667- 05. NAILS ARE TO BE	16.01	
### Output Output Disposes ### Output Disposes ##		OF 4 SQ. WHICHEVER PRODUCES THE GREATER STRESS. - BUILDER TO VERIFY DEAD LOAD DOES NOT EXCEED 10 PSF WHEN HEAVY FLOOR OR			<u>UMBER</u>		10.01	BE CONTINUOUS FROM SOLE PLATE AT FLOOR TO DOUBLE TOP PLATE AT THE CEILIN OR ROOF NO INTERMEDIATE RANDS OR PLATES SHALL CAUSE DISCONTINUITIES IN A
12. Section		ROOF FINISHES SUCH AS TILE OR SLATE ARE UTILIZED. NOTIFY ENGINEERING UNDER THESE CONDITIONS	10.01	SOLID SAWN WOOD FRAM FOR JOISTS, RAFTERS, G	ING DESIGN IS BASED ON NO. 2 SIRDERS, BEAMS, STUDS, ETC. MIN	SPRUCE PINE FIR <u>OR</u> SYP #2		FOR SUCH OPENINGS SHALL BE CONTINUOUS, TYP UNO. MAX ALLOWABLE WALL HEIGHTS FOR EXTERIOR STUD WALLS, INCLUSIVE OF SOLE
28. S. SEMPTO UPON TO PER (PASSAW 14) 29. T. S. TERRORIS SETT. 29. T. S. S. TERRORIS SETT. 29. T. S. TERRORIS SETT. 29. T. S. S. S. TERRORIS SETT. 29. T. S.				E= 1,400,000 PSI, F _c pe	rp = 425 PSI, F _v = 285 PSI, SPE	ECIFIC GRAVITY = 0.42 MIN		PLATE AND DBL TOP PLATE AND 7/16" OSB EXTERIOR BRACING AND ROW OF 2) 2X6 PURLINS AT 8' HEIGHT (AND AT 16' HEIGHT FOR TALL WALLS), TYP UNO:
1.00 1.00			PAI			X10 S, 750 PSI FOR 2X12 S		2X4 @ 12" 0.C.: 12'-1 1/2" 2X6 @ 12" 0.C.: 18'-8"
LIL WITH LANGE AND RESIDENCE STATE STEEDERS SHILL CREATED TO AND ASSESSMENDAM OFFICE AND ASSESSMENDAM SHOULD CREATE STATE		,		LVL OR PSL MINIMUM AL	- _LOWABLE DESIGN PROPERTIES AF	RE AS FOLLOWS:	16.02	
AND SAME AN EXTENSIVE PRESSESS FROM CONTROL OF ANY MAY SERVED IN A THE SAME SAME SERVED IN THE SAME SERVED IN THE SAME SERVED IN SAME SERVED	3.01			LSL MINIMUM ALLOWABLE	E DESIGN STRESSES ARE AS FOLL	_OWS:		-BLOCKING AT UNSUPPORTED PANEL EDGES IS REQUIRED TYP UNOWALL BRACING IS BY ENGINEERED DESIGN AND NOT PRESCRIPTIVE PER SECTION
AND STEED PER SHIPLION STATE AND GOVERN TO STATE AS SHALL HE STEED AND STATE	3.02		11.02			EMBERS TO MATCH THE MEMBER		WITH ALTERNATIVE METHODS TO INSURE THE MINIMUM INTENT OF SECTION 602.10 OF THE 2018 NCRC HAS BEEN MET AND EXCEEDED.
STRETCH IN CONTROLLED SILL CONTROLLED SILL WITH THE REQUIREMENTS OF HE ANY PROPERTY OF THE ANY PROPERTY OF	3.03	STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B, TYPE S, MINIMUM GRADE		PART 12: PRESSURE TRE	ATED LUMBER			PROVIDE CONTINUOUS PANEL UPLIFT RESISTANCE AND COMPLIANCE WITH NCRBC R602.3.5 AND R802.11 UNLESS NOTED OTHERWISE ON STRUCTURAL PLANS.
SPECIAL STATE FOR SUMMARY AND REPORT OF STRUCTURA. SEEL POR BUILDING CODE OF STRUCTURA. SEEL PAST OF SELECTION AND ELECTRON AND ELECTRON STRUCTURA. SEEL PAST OF SELECTION SERVICE STRUCTURA. SEEL PAST OF SELECTION SERVICE SERVICE SERVICE SERVICE SERVICE STRUCTURA. SEEL PAST OF SELECTION SERVICE S	3.04		12.01	TREATED IN ACCORDANC	E WITH AWPA STANDARD C-15. A	ALL OTHER EXPOSED LUMBER		-SINGLE JOIST, CONTINUOUS RIM JOIST, OR BLOCKING OF EQUAL DEPTH IS REQUIRED
PART 12. SEER, MILE PROPOSED SHALL BE EXPERIENCED BY AN ASSOCIATION SET OF SHALL BE EXPERIENCED BY AN ASSOCIATION SHALL BE ASSOCI	3.05	SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL		GIVING EQUAL PROTECTION	ON. THE BUILDING CODE OFFICE N	RD C-2 OR BY ANY METHOD MAY ALSO APPROVE A NATURAL		WITH 16d TOE NAILS @ 6" O.C. NAIL SOLE PLATE OF BRACED WALL TO BLOCKING BELOW WITH (3) 16d NAILS @ 16" O.C. BLOCKING AT HORIZONTAL JOINTS IN BRACE
AND SCRIPTION PLOTES DATE 12 CONSIDER AND 3825 DU RIGHE PART 12 CONSIDER AND 3825 DU RIGHE AND 38 AND TO UNICES SAUL DE DE HOUSE AND ARDER DE LA 28 AND TO UNICES SAUL DE DE HOUSE AND ARDER DE HOUSE A	. 04							
DATE DESCRIPTION OF THE SHALL CANDON PLANS OF THE OTHER AND PROCEDURES SHALL BE AND SHALL SHALL SHORT OF A SHALL	4.01	AWS CERTIFIED WELDER	13.01	TWO PIECES OF CONTINU	JOUS LUMBER AS SIZED ON THE	PLANS. BOLT PIECES TOGETHER	17.01	KING STUDS FOR OPENINGS IN EXTERIOR WALLS SHALL BE AS FOLLOWS:
CATERIOR CORREILE AND SHALL HAVE A MINIMARY CORRESSING STRUCTURE AND STR	5 N1			MAINTAIN A 2" EDGE DIS	STANCE. PLACE TWO BOLTS, ONE	ABOVE THE OTHER, 16" MAX		MAX OPENING WIDTH 5'-0" 9'-0" 13'-0" 17'-0" 21'-0"
SINGLE FAR AS FOLLOWS: SHALL BER AS FOLLOWS:	5.01	EXTERIOR CONCRETE AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS TYP UNO. <u>ALL</u> ITEMS NOTED AS 'CONCRETE' ARE TO BE CAST IN PLACE,						STUD SIZE 2X6 1 1 2 2 2
SUBJECT IN SAME OF GRADE, F ANY, SHALL BE CAST IN PLACE, COMIAN SYNTHETIC POLYPROPHIDE FABILIZED MODO PRESS, BERK LEVEL HT 1, 27 DONG FROM THE SAME OF PROVIDE FABILIZED MODO PRESS, BERK LEVEL HT 1, 12 DONG FROM THE SAME OF PROVIDE FABILIZED MODO PRESS, BERK LEVEL HOT IT 1, 27 DONG FROM THE SAME OF PROVIDE FABILIZED MODO PRESS, BERK LEVEL HOT IT 1, 27 DONG FROM THE SAME OF PROVIDE FABILIZED MODO PRESS, BERK LEVEL HOT IT 1, 27 DONG FROM THE SAME OF PROVIDE FABILIZED MODO PRESS, BERK LEVEL HOT IT 1, 27 DONG FROM THE SAME OF PROVIDE FABILIZED MODO PRESS, BERK LEVEL HOT IT 1, 27 DONG FROM THE SAME OF PROVIDE FABILIZED MODO PRESS, BERK LEVEL HOT IN THE BUILDER IS RESPONDED TO A STUD WALL PARALLE TO THE BAM SHALL BEAR AS FOLD CALLINE TO THE BAM SHALL BEAR AS FOLD CALLINE TO THE WALL HAVE BE SAME SHALL BE REFORED STILL CONFORM TO ASTM ASID GRADE 60 TP UND THE BUILDER IS RESPONDED STELL CONFORM TO ASTM ASID GRADE 60 TP UND THE BUILDER IS RESPONDED TO A STUD WALL PARALLE TO THE BAM SHALL BEAR AS FOLD CALLINE TO THE WALL HAVE BEAR AS FOLD WALL PARALLE TO THE BAM SHALL BE SHOWED BY A STUD WALL PARALLE TO THE BAM SHALL BE SHOWED BY A FOLD WALL PARALLE THE SHAPE WAS COLOR TO THE SHAPE WAS	5.02	REINFORCED CAST IN PLACE CONCRETE SHALL BE PROPORTIONED, MIXED AND PLACED IN		SHALL BEAR AS FOLLOW	/S:		40.04	
BLEYOU TO, SUME TO BE PLACED ON A BIT VARYOR PRINCIPLE ON CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS FOR THE CONSTRUCTION. THE BUILDER IS REPORTED TO THE CONSTRUCTION OF THE CONSTRUCTION OF THE CONSTRUCTION. THE BUILDER IS REPORTED TO THE CONSTRUCTION OF THE CONSTRUCT	5.03	SLABS ON GRADE, IF ANY, SHALL BE CAST IN PLACE, CONTAIN SYNTHETIC	1-\ S	MHEN THE BEAM IS PERPEN SHALL BEAR <u>FULL WIDTH</u> OI BY A MINIMUM OF THREE G	NDICULAR TO, OR SKEWED RELATI' N THE SUPPORTING WALL INDICAT ANGED STUDS. OR A GANGED STI	VE TO THE WALL, THE BEAM IED AND SHALL BE SUPPORTED UD COLUMN WITH A NUMBER	18.01	AUTHORIZATION OF THE DESIGNERS. UNAUTHORIZED DEVIATIONS ARE THE SOLE
DATES OF SLASS NOT IN ENCOSED AREAS PART 6. REBAY AND MER ERIPORCEMENT IN REBAR SHALL BE DEFORMED STELL CONFORM TO ASTM A615 GRADE 60 TYP UNO IN REBAR SHALL BE DEFORMED STELL CONFORM TO ASTM A615 GRADE 60 TYP UNO IN WER PERFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064. PART 7. MASONRY CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND CS5, NORMAL WEIGHT, TO BUILDER IS RESPONSIBLE FOR REVENUE PLANS CONTAIN DISCREPANT OF RECORD (DRV) BEFORE PROCEEDING IF THE BUILDER SHALL BE BUILDER TO THE STORT OF RECORD (DRV) BEFORE PROCEEDING IF THE BUILDER SHANDSON THE SUPPORTION ARE NOT BEFORE TO BUILDING ARE STORT OF THE STORT O		LBS/CU YD. SLAB TO BE PLACED ON A 6 MIL VAPOR BARRIER ON 4" MIN GRANULAR		OF STUDS SUCH THAT THE THE BEAM BEING SUPPORTE	STUD COLUMN IS AT LEAST AS NO., WHICHEVER IS GREATER, TYP	WIDE AS THE TRUE WIDTH OF UNO. FOR THE SKEWED		PART 19: OWNERSHIP OF STRUCTURAL DESIGN
ANNIONIN OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GAMED ANNIONIN OF 4 1/2" ONTO THE WALL AND BE SUPPORTED BY A TRPL STUD GAMED LOS REAR SHALL BE LOSS B AS DEFINED BY ACIDIS, TYP UNO 14.02 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM ATOBS. PART 7: MASONRY 15.01 CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C5S, NORMAL WIGHT, 15.02 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.02 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.02 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.02 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.02 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.03 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.04 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.04 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.04 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.04 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.04 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.04 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.04 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.04 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.05 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL SHALL BEAR AS POLICING: 15.05 DIMENSIONAL LUMBER BEAMS BEAMS ON A STUD WALL BEAM AND ON THE WALL THE BEAM STUD WALL THE BEAM ST		OMITTED FOR SLABS NOT IN ENCLOSED AREAS	2-	THE BEAM BEAMS BEARING ONTO THE	END OF A STUD WALL PARALLEL	_ TO THE BEAM SHALL BEAR	19.01	THE STRUCTURAL DESIGN OF THIS PLAN IS THE PROPERTY OF ENGINEERING TECH ASSOCIATES (ETA). THESE PLANS ARE FOR THE ONE TIME USE AT THE LOCATION
LAP SPLICES SHALL BE QLASS B AS DEFINED BY ACI 318, TYP UNO 8.03 WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064. PART 7: MASONRY 7.01 CONGRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, 7.01 CONGRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, 7.01 CONGRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, 7.02 DIMENSIONAL LUMBER BEAMS BEARING ON A STUD WALL SHALL BE 30 PERFET BY A GONTHOUGH THE BURDER BY A CONTINUOUS RIM. JOIST WEIGHT (E.S. A. IT PLE SALL THE BEAM THE VOIL (E.S. A. ITPLE ZIOI S TO BE SUPPORTED BY (3) STUDS.) FOR THE SKEWED CONDITION PARTICULAR CARE SHALL BE AND THE DEAM SHALL BE SUPPORTED BY A GONTHOU DEPORT OF THE SKEWED CONDITION PARTICULAR CARE SHALL BE TAKEN TO EMSURE STUD COLUMN IS CENTERED ON THE BEAM THE COLUMN TO ENTRY BE ADDRESSED TO BE DESIGNED BY THE SALL OF THE COLUMN CONSTRUCTION. THE BULDER BOTH ENDS BOTH EN	S በ1		<i>A</i>	A MINIMUM OF 4 1/2" ONTO COLUMN TYP UNO.	O THE WALL AND BE SUPPORTED	BY A TRPL STUD GANGED		INDICATED AND FOR THE CLIENT LISTED. ETA ASSUMES NO LIABILITY FOR THESE PLANS IF THEY ARE REPRODUCED, IN WHOLE OR IN PART, FOR CONSTRUCTION A
ABBRE VIATIONS THE BUILDER IS RESPONSIBLE FOR REVENING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGNER OF RECORD (ECR) BEFORE PROCEEDING IF THE FOLLOWING CONSTRUCTION: 1) THE WORKING PLANS DRIVE OF THE EAR OF RECORD (ECR) BEFORE PROCEEDING IF THE BUILDER SHALL SOLD THE EAR OF RECORD (ECR) BEFORE PROCEEDING IF THE BUILDER SHALL SOLD THE EAR OF RECORD (ECR) BEFORE PROCEEDING IF THE BUILDER SHALL SOLD THE EAR OF REVENUE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE BUILDER TO RESPONSIBILITY OF THE EAR PROMPTLY DISTRIBUTED TO THE BUILDER TO ENSURE STUD COLUMN IS SUBCONTRACTIONS ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE BUILDER TO BOULDER TO THE EOR ARE PROMPTLY DISTRIBUTED TO THE BUILDER TO BOULDE THE BUILDER TO BOULD SHEATHING BUILDED TO THE BUILDER TO BOULD SHEATHING BUILDED TO THE BUILDER TO BOULD SHEATHING BUILDED TO BOULD SHEATHING BUILDED TO THE BUILDER TO BOULD SHEATHING BUILDED TO BOULD SHEATHING BUILDER TO BOULD SHEATHING BUILDED TO BOULD SHEATHING BUILDER T								AND OTHER ECONTION WITHOUT WITHTEN FEINMISSION FROM ETA
CANCETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT, NOTES THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTRACT THE ENORMER OF RECORD (EGR) BEFORE PROCEEDING IF THE FOLLOWING CONTRIDITIONS ARE NOTED BEFORE OF INCOMPLET INFORMATION 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR 2) THE PLANS CONTRIAN DISCREPANT OR INCOMPLETE INFORMATION ANY PERFORMS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE DESPONSIBILITY OF THE EOR LOVE FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE DESPONSIBILITY OF THE EOR LOVE FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE DESPONSIBILITY OF THE EOR LOVE FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE DESUBGONTRACTORS BY ABOVE ABV ABOVE FIND FOUNDATION FIT FOUNDATION FIT FOUNDATION FIT FOUNDATION FIT FOUNDATION FIT FOUNDATION TYP TYPICAL THE TRIPLE JUIST TYP TYPICAL TO HAMBER TO BESTWEN HAD ABOVE OTHERWISE X J EXTRA JOIST WILL LAMINATED VENEER UNION SOUTHER STAND UNILESS NOTED OTHERWISE X J EXTRA JOIST WILL STAND UNIVERS NOTED OTHERWISE X J EXTRA JOIST WILL STAND UNIVERS NOTED OTHERWISE X J EXTRA JOIST FIT RIPLE JUIST TYP TYPICAL THE HAMBER TO THE BEAM TYP UNO. (E.G. A TRIPLE ZYIO IS TO BE SUPPLE STUD FOOLED TYP TYPICAL THE JOINT THE BUILDER IS THE PAIN TO BEAM TO BEAM THE SAME WIGHT AS THE BEAM TYP UNO. (E.G. A TRIPLE ZYIO IS TO BE SUPPLE STUD FOOLED TYP TYPICAL THE JOINT THE SAME WICH AS THE BEAM TYP UNO. (E.G. A TRIPLE ZYIO IS TO BE SUPPLE STUD FOOLED TYP TYPICAL THE JOINT TYP TYPICAL TYP TYPICAL THE JOINT TYP TYPICAL THE JOINT TYP TYPIC	3.03	WIRE REINFORCEMENT SHALL BE 9 GA AND SHALL CONFORM TO ASTM A1064.		SHALL BEAR FULL WIDTH OI	N THE SUPPORTING WALL INDICAT	TED (LESS 1 1/2" TO ALLOW		
NOTES THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE ENCLUMING CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE ENCLUMING CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE ENCLUMING PLANS DO NOT BEAR THE SEAL OF THE EOR CAST IN PLACE CONC. 2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION ABY ABOVE B. BOTH B.B. BOTH B				SANGED STUD COLUMN THE	SAME WIDTH AS THE BEAM TYP	UNO. (E.G. A TRIPLE 2X10 IS		
THE BUILDER IS RESPONSIBLE FOR REVIEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE OLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR 2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE EXESPONSIBILITY OF THE BUILDER TO INSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER SALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL FLOOR FIRE ARE PLOND. BOTH HODS HOT DIPPED GALVANIZED TO FOUNDATION TTY TYPICAL TRPL TRIPLE TO FOUNDATION THY TYPICAL TRPL TRIPLE TO THE GALVANIZED GALVANIZED TO THE HOT DIPPED GALVANIZED TO THE HANGER LVV. LAMINATED VENEER LUMBER NITS NOT TO SCALE OC. ON CENTER DIA DIAMETER DIA	.01	CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND C55, NORMAL WEIGHT,	Ė	BE TAKEN TO ENSURE STUD	COLUMN IS CENTERED ON THE	BEAM		
THE BUILDER IS RESPONSIBLE FOR REVEWING PLANS PRIOR TO CONSTRUCTION. THE BUILDER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR 2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL FINAL PLANS AND FROM THE STATE. FINAL PLANS								
SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE FOLLOWING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION: 1) THE WORKING PLANS DO NOT BEAR THE SEAL OF THE EOR 2) THE PLANS CONTAIN DISCREPANT OR INCOMPLETE INFORMATION ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. B. BOTH HDS BETWEEN CIP CAST IN PLACE CONC CONCRETE CONC CONCRETE CONC CONCRETE CONTINUOUS SHEATHING DIAMETER D		<u>NOTES</u>			ABBREVIATION	NS		
CONC CONCRETE ANY ERRORS DUE TO A FAILURE TO FOLLOW THE ABOVE PROCEDURES SHALL NOT BE THE RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. CONC CONCRETE CS CONTINUOUS SHEATHING DIAMETER DDIAMETER DDUBLE DOUBLE DOUBLE JOIST DSP DBL STUD POCKET EQ EQUAL EA EACH EA EACH FLG FLANGE FLG FLANGE FL PL FLITCH PLATE FLOOR CONC CONCRETE LUMBER NTS NOT TO SCALE O.C. ON CENTER PL PARALLEL STRAND LUMBER NTS NOT TO SCALE O.C. ON CENTER PY PRESSURE TREATED QJ QUAD JOIST SP SPACE (OR SPACING) SSP SPACE (OR SPACING) SSP SPACE (OR SPACING) SSP SINCLE STUD POCKET	SHALL FOLLO	IMMEDIATELY CONTACT THE ENGINEER OF RECORD (EOR) BEFORE PROCEEDING IF THE MING CONDITIONS ARE NOTED BEFORE OR DURING CONSTRUCTION:	B.E. BTWN	. Both . Both Ends I Between	FTG FOOTING HDG HOT DIPPED GALVANIZED	TYP TYPICAL TRPL TRIPLE TSP TRIPLE STUD POCKET		
RESPONSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO ENSURE THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE SUBCONTRACTORS DIA DIAMETER DBL DOUBLE DJ DOUBLE JOIST DSP DBL STUD POCKET EQ EQUAL EA EACH CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL DIA DIAMETER DJ DOUBLE DOUBLE DOUBLE DJ DOUBLE JOIST DSP DBL STUD POCKET EQ EQUAL EA EACH QJ QUAD JOIST SP SPACE (OR SPACING) SINGLE STUD POCKET FLG FLANGE SSP SINGLE STUD POCKET FLOOR FLOOR FLOOR FLOOR FLOOR FROM THE KROOT TO SCALE O.C. ON CENTER PSL PARALLEL STRAND LUMBER PT PRESSURE TREATED QJ QUAD JOIST SP SPACE (OR SPACING) SSP SINGLE STUD POCKET FLOOR	,		CONC	CONCRETE	LVL LAMINATED VENEER	OTHERWISE		
THE EOR DOES NOT PERFORM FENESTRATION OR VENTING CALCULATIONS OR ANY OTHER CALCULATIONS THAT ARE NOT DIRECTLY RELATED TO STRUCTURAL ENGINEERING. ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL FLOOR FLOOR FLOOR SPACING SPACIN	RESPO Ensur	NSIBILITY OF THE EOR. FURTHERMORE, IT IS THE RESPONSIBILITY OF THE BUILDER TO E THAN ANY REVISIONS ISSUED BY THE EOR ARE PROMPLY DISTRIBUTED TO THE	DIA DBL D.	DIAMETER DOUBLE DOUBLE JOIST	NTS NOT TO SCALE O.C. ON CENTER PSL PARALLEL STRAND	AS EATHA OOD!		
ROOF AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL FL PL FLITCH PLATE SP SPACE (OR SPACING) SSP SINGLE STUD POCKET SSP SINGLE STUD POCKET			EQ EA	EQUAL EACH	PT PRESSURE TREATED QJ QUAD JOIST			
	R00F	AND FLOOR TRUSSES TO BE DESIGNED BY AN ENGINEER REGISTERED BY THE STATE. FINAL	FL PL	FLITCH PLATE	SSP SINGLE STUD POCKET			
			FLR	FLOOR	SQ SQUARE			



STRUCTURAL ENGINEERS
License No. C-3870
318 W. Millbrook Rd
Sh. Raleigh, North Carolina 27609
P.A. Phone (919) 844-1661

OMES DDENDUM

ENG: RJS/CR
DATE: 2/28/2022

PROJECT NO. 22-28-007

SHEET NO.

SPECS

6 of 6