

PLANG DEBIGNED TO THE NO STATE BHILDING CODE, 2018 EDITION.



PLAN 1853

520





TRUSS PESIGN, LATOUT, AND ENGINEERING TO BE PROVIDED BY THE TRUSS MANUF.

(TFP LIN. D.)

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NO \cap S CIDER HOUSE ST 424 E. MAI CLAYTON, NC 919, 624, 4

NICHOL RESIDENCE







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64'-4" 27'-4" 25'-4" 6'-10" 6'-10" 6'-10" (2)2 X 10 PT BAND, TYP. ______ _ _ _ _ _ _ _ _ _ _ . FIELD LOCATE 6" X 6" PT POST ON ACCESS WITH A 22" X 22" X 10" CONC. FTG., TYP. DOUBLE BAND – OVER OPENING (DO NOT LOCATE UNDER POINT LOADS) 2 X 10 PT] @ 16" OC ╵─╻─┝ᡟ╵ 2 X 10 FJ @ 12" OC 27'-0" 113 2 X 10 FJ @ 16" OC 13'-3" [3] DJ DJ ----___**I**__ _ -----<u>_</u> _ 36" X 36" X 10" 2 X 10 FJ 13'-8" D S-5 CONC. FTG. @ 16" OC 13'-8" 13'-4" 11'-10" (3)2 X 10 (FLUSH) [3] [4] 16" X 24" CMU PIER — ON A 32" X 40" X 10" SOLID BLOCK TO POINT LOAD — TO PIER ____<u>DJ__</u> CONC. FTG. (3)2 X 10 (FLUSH) _ _ DJ EACH END ISLAND <u>ABOVE</u> A (2)2 X 10 FJ 2 X 10 FJ @ 16" OC @ 16" OC DJ (3)2 X 10 (FLUSH) _____ [3] 2 X 10 FJ [4] @ 16" OC 2 X 10 FJ L _ _ _ _ _ _ _ _ . @ 16" OC DJ ┌╶┣═╕╾┼┶╘╼╼╧╩╼╧ └┼┻┚ 30" X 30" X 10" CONC. FTG. 6'-10" 9'-6" 8'-8"/ [3] S-5 2 X 10 FJ @ 16" OC 30" X 30" X 10" CONC. FTG. – _ _ _ _ _ _ _ _ _ _ 4" CONC. SLAB W/ W6X6 WWM OR FIBERMESH OVER 6 MIL POLY OVER 4" GRAVEL BASE [3] SLOPE SLAB 30" X 30" X 10" CONC. FTG. _ 60" X 28" X 10" CONC. FTG. SIMP. ABA66Z POST BASE W/ 5/8" DIA. ANCHOR BOLT W/ MIN. 6" EMBED. USING SIMPSON SET EPOXY (OR EQUIV.), TYP. S-5 - __ __ __ -----____ 12'-8" 12'-8" 6'-8" 25'-4" 64'-4"

FOUNDATION PLAN

SCALE: $\frac{1}{4}'' = 1'-0''$

[LEG	END		() _	ر ~ ل	NC.COM
·	[?]	POINT LO. BLOCKIN NUMBEH PLI	AD REQUIRING NG TO FOUND R OF 2 X 10 GI IES (DROPPED	G SOLID ATION IRDER)				INU, FL Fich NC-2760	W.EDWARDSENG
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			<u> </u>]				120	JINEERING, PL
	16" X 32" X	16" MASONRY 32" X 10" CON	PIER ON A CRETE FOOTII	NG			, RD.	GD, INI	TY OF EDWARDS EN FIED WITHOUT THE V
	8" X 24" X	16" MASONRY P 32" X 10" CON	IER ON A CRETE FOOTII	NG			BALI	FKIN	ARE THE PROPEN DUCED OR MODI
 HOLLOW MA OR CONCRET AND 8" THIC MAXIMUM HI FOUR TIMES HEICHT OF S 	SONRY PI TE CAP 4" CK SUPPOI EIGHT OF THE LEAS	ERS SHALL HAV THICK WHEN S TING MORE TH HOLLOW MASC ST DIMENSION	/E A SOLID M SUPPORTING C IAN ONE STOI ONRY PIERS SI OF THE PIER.	ASONRY DNE STORY RY. HALL BE MAXIMUM TIMES THE		ICHO			NTAINED WITHIN THEM S SHALL NOT BE REPROI
LEAST DIME CENTERS OF THE FOOTIN PIERS. TIE A	NSION OF PIERS SH IGS. GIRD LL PILAST	THE PIER. IALL BEAR IN T ERS MUST HAVI ERS INTO FOU	HE MIDDLE THE E FULL BEARIN NDATION WAI	HIRD OF NG ON LS.		Ζ	Ĩ	Η	E INFORMATION CC HOWN. THESE PLAN
CR AREA OF CRAW	AWL S	PACE VEN	<u>ΓΙΙΑΤΙΟΝ</u> _1,943	FT ²					HESE PLANS AND TH THE PROJECT 5
REQUIRED ARE/ (1 FT ² OF VENT 150 FT ² OF CRA	A OF VENT ILATION H WL SPACH	TILATION: TOR EVERY C)	12.95	_ FT ²	ARC	HITECT/DE	SIGNER:		I
REQUIRED NUM (0.45 FT ² PER V NOTE:	(BER OF V ENT):	ENTS	29	_ VENTS	PLA	DER HC	1853	TUDI	los
REQUIRED AREA OF VENTILATIO THE FOLLOWIN 1. REQUIRED VENTILATI	A OF VENT N PER 1,5 G CONDIT OPENING ON ND SUPE	TILATION MAY I 00 SQ. FT. OF (TONS ARE MET S ARE PLACED	BE REDUCED T CRAWL SPACE : TO PROVIDE (CO 1 SQ. FT. WHERE CROSS	JOB DAT DRA	#: E: WN BY:	20 11/0] []	0100 04/202 PSE J PI A	20 N
6-MIL VAP	OF VENT	ER WITH JOINT	S LAPPED MIN	_ FT ²	FIR	ST FL	OOR F	RAM	ING
REDUCED NUME (0.45 FT ² PER V	BER OF VE ENT):	NTS REQ'D		_ VENTS	2	SHEET		1	
 LOCATE ONE BUILDING UPHILL FOUL WITHOUT W PROVIDE VE OPENING IS 	NDATION ALL VENT NT DAMS LESS THA	WALLS MAY BE OPENINGS WHERE THE BC N 4" AROVE FIN	CONSTRUCTE CONSTRUCTE OTTOM OF THI	D E VENT RIOR GRADE		5	—		-
			LISTILD EATER			1 (OF:	5	

LEGEND

	POINT LOAD REQUIRING SOLID BLOCKING TO FOUNDATION
[?]	NUMBER OF 2 X 10 GIRDER PLIES (DROPPED)





16" X 16" MASONRY F 32" X 32" X 10" CONC	PIER ON A CRETE FOOTING
8" X 16" MASONRY PI 24" X 32" X 10" CONC	ER ON A CRETE FOOTING
 HOLLOW MASONRY PIERS SHALL HAVE OR CONCRETE CAP 4" THICK WHEN SU AND 8" THICK SUPPORTING MORE TH MAXIMUM HEIGHT OF HOLLOW MASO FOUR TIMES THE LEAST DIMENSION OF HEIGHT OF SOLID MASONRY PIERS SH LEAST DIMENSION OF THE PIER. CENTERS OF PIERS SHALL BEAR IN THE THE FOOTINGS. GIRDERS MUST HAVE PIERS. TIE ALL PILASTERS INTO FOUN 	E A SOLID MASONRY UPPORTING ONE STORY AN ONE STORY. NRY PIERS SHALL BE DF THE PIER. MAXIMUM HALL BE TEN TIMES THE IE MIDDLE THIRD OF E FULL BEARING ON IDATION WALLS.
CRAWL SPACE VENT	TILATION:
AREA OF CRAWL SPACE:	1,943 FT ²
REQUIRED AREA OF VENTILATION: (1 FT ² OF VENTILATION FOR EVERY 150 FT ² OF CRAWL SPACE)	<u>12.95</u> FT^2
REQUIRED NUMBER OF VENTS (0.45 FT ² PER VENT):	VENTS
NOTE:	



(A)

FIRST FLOOR PLAN

CEILING HEIGHT: 9'-0" UNO SCALE: $\frac{1}{4}'' = 1'-0''$

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		PO E	INT I BLOC	LOAD R King T	EQUIRIN O FOUNI	IG SOLII DATION)	(- 2760(DSENG
	(#)	NUMB COLUM SHOWN	ER O N (S' ON A	F SUPP TUD SI ARCHIT	ORT STU ZE PER V ECTURA	JDS IN S' VALL WI L PLANS	TUD DTHS UNO)			\leq	NG,	EIGH, NC
			LC	DAD BEA	ARING W	ALL						IVE - RAI TTF- WW
\sim	HEAD	ER S	CF	HED	ULE				\geq			VNS DR - WFBS
G H	EADER	TAC	i I	HEADI	ER							H DOV
$\frac{A}{B} = \frac{2}{2}$)2 X 6	K	((2)1.75 (2)1.75	X 9.25 L	VL 5 LVL		1				SOUT 730
$C \qquad (2)$)2 X 10	M	((2)1.75 $(2)1.75$	X 14 LVI							929 S (919)
$\begin{array}{c c} \hline \end{array} & (2) \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array}$)2 X 12	N	((2)1.75	X 16 LVI							5. NIF.
(3)	$\frac{2 \times 4}{2 \times 6}$	P R	((2)1.75 (2)1.75	X 18 LVI X 9.25 L	_ VL & 2 X	10					DHd
(3)2 X 8	S	((3)1.75	X 9.25 L	VL						
(3	$)2 \times 10$	T	((3)1.75	X 11.875	5 LVL						
)Z X IZ		'FD ((3)1.75	X 16 LVI							
EADER NLESS EQUIR ND OF NTERR ICRC T	NOTED OTHI ED NUMBER (HEADER SHA UPTED BY A V ABLE R602.7.	ERWISE. OF FULL ALL BE OI WALL OP 5	HEIG NE HA ENIN	GHT KIN ALF OF IG, OR A	IG STUDS STUDS AS REQU	S AT EAC	Ж	"Thurning	IN ONANDA	GIN/ ESS P-04		NICA PLLC
LOOR JO PER PI	IST _ LAN \				/- SHEA	THING				N.C.		ILLIN
BL TOP PLATE ANGER I PLAN, T BEARIN COVER S STUI	PER TYP NG PLATE SUPPORT DS FULLY				TOP FLUS ER PLAN ING STU IDE OF 1	SH BEAM		SE	AL DAT	Υ SEA 456 Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ Υ	L 75 E 11/04 ONS	SQX 1 202
				\downarrow s	UPPORT	STUDS				/		
Т)P FLU	SH I		S P	SUPPORT ER PLAN	STUDS	1'-0"	 		/ / /	/ /	- - -
TC FRA	DP FLUS	SH L	VL OP FI	S P LUSH L	SUPPORT ER PLAN SCA	STUDS LE: 1" = 1	1'-0"			/ / /	/ /	K FOR
	VG DETAIL NG DETAIL VG DETAIL	SH L S FOR TO S FOR T	VL DP FI	LUSH L LUSH L CIN THOD WSP	SUPPORT ER PLAN SCA VL BEAN	STUDS LE: 1" = 1	1'-0"			BALL RD.	HOLLY SPRINGS, NC 27540	INFORMATION CONTAINED WITHIN THEM ARE THE PROPERTY OF EDWARDS ENGINEERING, PLLC AND HAVE BEEN ISSUED EXCLUSIVELY FOR
TC FRA	DP FLU MING DETAIL WA 2Q'D. PRC 6.0' 3 6.0' 23 3.5' 20	SH L SFOR TO SFOR TO	VL OP FI RA ME CS-' CS-'	LUSH L LUSH L LUSH L LUSH L LUSH L LUSH L L LUSH L L L LUSH L L L L L LUSH L L L L L L L L L L L L L L L L L L L	SUPPORT ER PLAN SCA VL BEAN	STUDS LE: 1" = 1	1'-0"			BALL RD.	HOLLY SPRINGS, NC 27540	ND THE INFORMATION CONTAINED WITHIN THEM ARE THE PROPERTY OF EDWARDS ENGINEERING, PLLC AND HAVE BEEN ISSUED EXCLUSIVELY FOR

WALL BRACING NOTES:

. EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH MINIMUM 3/8" TH WOOD STRUCTURAL PANEL SHEATHING ATTACHED TO FRAMING WITH 8d NAILS @ 6" OC EDGES & 12" OC FIELD WITH ALL SHEATHING EDGES SOLID BLOCKED UNLESS NOTED OTHERWISE. . WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS1,

ARCHITECT/DESIGNER:

PLAN NAME:

JOB #:

DATE:

DRAWN BY:

SHEET:

CIDER HOUSE STUDIOS

1853

FIRST FLOOR HEADER

2ND FLOOR FRAMING

<u>2</u>OF: <u>5</u>

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11/04/2020

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- DOC PS2, OR ANSI/APA PRP 210. 3. INTERIOR SURFACES OF EXTERIOR BRACED WALLS SHALL BE
- SHEATHED WITH MIN. 1/2" TH GYPSUM WALL BOARD FASTENED PER NCRC TABLE R602.10.3(5). 4. WALL CORNERS SHALL BE FRAMED PER NCRC FIGURE
- R602.10.3(5). 5. A MIN. 24" LONG SHEATHING RETURN PANEL SHALL BE PROVIDED ON THE INTERSECTING WALL AT ENDS OF BRACED WALL LINES. WHERE THIS RETURN IS NOT
- PROVIDED, THE BRACED WALL LINE SHALL HAVE A MIN. 48" LONG PANEL AT THE CORNER, OR A HOLD-DOWN DEVICE RATED FOR MIN. 800 LB. SHALL ATTACH THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER TO THE FOUNDATION OR FLOOR FRAMING BELOW.
- . BRACED WALL PANELS SHALL BE CONNECTED TO FLOOR AND CEILING FRAMING PER NCRC FIGURES R602.10.4.4(1) & (2). . BRACED WALL PANELS SHALL BE CONNECTED TO ROOF FRAMING PER NCRC SECTION R602.10.4.5.

SIMP. LSTA18 STRAP FROM CORNER STUDS TO FLOOR BAND BELOW

(B)



SECOND FLOOR PLAN

CEILING HEIGHT: 8'-0" UNO SCALE: $\frac{1}{4}'' = 1'-0''$

	LEGEND
	POINT LOAD REQUIRING SOLID BLOCKING TO FOUNDATION
(#)	NUMBER OF SUPPORT STUDS IN STUD COLUMN (STUD SIZE PER WALL WIDTHS SHOWN ON ARCHITECTURAL PLANS UNO)
	LOAD BEARING WALL

?	HEADE	ER SC	CHEDULE
TAG	HEADER	TAG	HEADER
A	(2)2 X 6	K	(2)1.75 X 9.25 LVL
В	(2)2 X 8	L	(2)1.75 X 11.875 LVL
C	(2)2 X 10	М	(2)1.75 X 14 LVL
D	(2)2 X 12	Ν	(2)1.75 X 16 LVL
E	(3)2 X 4	Р	(2)1.75 X 18 LVL
F	(3)2 X 6	R	(2)1.75 X 9.25 LVL & 2 X 10
G	(3)2 X 8	S	(3)1.75 X 9.25 LVL
Н	(3)2 X 10	Т	(3)1.75 X 11.875 LVL
J	(3)2 X 12	V	(3)1.75 X 16 LVL
	DEDG GUALL DE GU		ON CINCLE LACK CEUDO

 HEADERS SHALL BE SUPPORTED ON SINGLE JACK STUDS UNLESS NOTED OTHERWISE. • REQUIRED NUMBER OF FULL HEIGHT KING STUDS AT EACH END OF HEADER SHALL BE ONE HALF OF STUDS INTERRUPTED BY A WALL OPENING, OR AS REQUIRED BY NCRC TABLE R602.7.5



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BALL RD.

NICHOL

ARCHITECT/DESIGNER:

PLAN NAME:

JOB #:

DATE:

DRAWN BY:

SHEET:

CIDER HOUSE STUDIOS

1853

2ND FLOOR HEADER

2ND FLOOR CEILING

<u>3</u>OF: <u>5</u>

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11/04/2020

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NOTE: CEILING JOISTS SHOWN ARE OPTIONAL AND NOT REQUIRED TO BE INSTALLED AT UNFINISHED SPACES.

	WALL BRACING						
BWL	REQ'D.	PROV'D.	METHOD				
A	2.7'	32.2'	CS-WSP				
1	5.7'	11.0'	CS-WSP				
2	5.7'	11.0'	CS-WSP				
HOUS	HOUSE: 2-STORY (2:12 PITCH) 3'-0" EAVE TO RIDGE						
WALL I	BRACING NC	OTES:					
1. EXT WIT SHE EDC BLC 2. WO DOC 3. INT SHE FAS 4. WA R60 5. A M	ERIOR WALL TH MINIMUM EATHING AT GES & 12" OO OCKED UNLE OD STRUCT C PS2, OR AI ERIOR SURF EATHED WIT TENED PER LL CORNERS 2.10.3(5). IIN. 24" LON	LS SHALL BE (1 3/8" TH WOO FACHED TO FI C FIELD WITH SS NOTED OT URAL PANELS NSI/APA PRP 2 FACES OF EXT TH MIN. 1/2" T NCRC TABLE 1 S SHALL BE FR	CONTINUOUSLY SHEATHED OD STRUCTURAL PANEL RAMING WITH 8d NAILS @ 6" OG ALL SHEATHING EDGES SOLID HERWISE. SHALL CONFORM TO DOC PS1, 210. ERIOR BRACED WALLS SHALL BH H GYPSUM WALL BOARD R602.10.3(5). AMED PER NCRC FIGURE G RETURN PANEL SHALL BE				
PRC	OVIDED ON T	THE INTERSEC	TING WALL AT ENDS OF				

- BRACED WALL LINES. WHERE THIS RETURN IS NOT PROVIDED, THE BRACED WALL LINE SHALL HAVE A MIN. 48" LONG PANEL AT THE CORNER, OR A HOLD-DOWN DEVICE RATED FOR MIN. 800 LB. SHALL ATTACH THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER TO THE FOUNDATION OR FLOOR FRAMING BELOW. . BRACED WALL PANELS SHALL BE CONNECTED TO FLOOR AND
- CEILING FRAMING PER NCRC FIGURES R602.10.4.4(1) & (2). 7. BRACED WALL PANELS SHALL BE CONNECTED TO ROOF FRAMING PER NCRC SECTION R602.10.4.5.



ROOF PLAN

SCALE: $\frac{1}{4}'' = 1'-0''$

SUQV/VUJ		ENGINEERING, PLLC	PHONE: (919) 730-7235 - WEBSITE: WWW.EDWARDSENGNC.COM
11/1/00/2000 11/1/00/2000 11/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1	P-04		
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NICHOL RESIDENCE	BALL RD.	HOLLY SPRINGS, NC 27540	THESE PLANS AND THE INFORMATION CONTAINED WITHIN THEM ARE THE PROPERTY OF EDWARDS ENGINEERING, PLLC AND HAVE BEEN ISSUED EXCLUSIVELY FOR THE PROJECT SHOWN. THESE PLANS SHALL NOT BE REPRODUCED OR MODIFIED WITHOUT THE WRITTEN CONSENT OF EDWARDS ENGINEERING, PLLC.
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	LEGEND
	POINT LOAD REQUIRING SOLID BLOCKING TO FOUNDATION
(#)	NUMBER OF SUPPORT STUDS IN STUD COLUMN (STUD SIZE PER WALL WIDTHS SHOWN ON ARCHITECTURAL PLANS UNO)
	OVERFRAMED ROOF WITH RAFTERS BEARING ON A 2X FLAT PLATE ON LOW RAFTERS

3400 FT² AREA OF ROOF: REQUIRED AREA OF VENTILATION: (1 FT² OF VENTILATION FOR EVERY 22.7 FT^2 150 FT² OF ATTIC SPACE)

ROOF VENTILATION:

REDUCED AREA OF VENTILATION: (1 FT² OF VENTILATION FOR EVERY 300 FT² OF ATTIC SPACE)

REQUIRED AREA OF VENTILATION MAY BE REDUCED TO 1 SQ. FT. OF VENTILATION PER 300 SQ. FT. OF ATTIC SPACE WHERE MIN. 50% AND MAX. 80% OF REQUIRED VENTILATION IS PROVIDED BY VENTILATORS IN THE UPPER PORTION OF VENTED SPACE AT LEAST 3 FT ABOVE EAVE/CORNICE VENTS. NOTE: ENCLOSED ATTIC/RAFTER SPACES REQUIRING LESS THAN

 $_11.4$ FT^2

1 SQ. FT. OF VENTILATION AND/OR LOCATED OVER UNCONDITIONED SPACE MAY BE VENTED WITH CONTINUOUS SOFFIT VENT ONLY



DESIGN CRITERIA

• DESIGN LOADS (PS	SF):					
USE:	L.L.	D.L.	USE:		L.L.	D.L
ATTICS W/O STORAGE	10	10	EXTERIOR DECKS/BA	LCONIES	40	10
ATTICS W/ STORAGE	20	10	PASS. VEHICLE GARA	GES	50	50
ATTICS W/ FIXED STAIRS	30	10	GUARDRAILS/HANDR	AILS	200 LB	
SLEEPING ROOMS	30	10	ROOF (CLG. NOT AT	FACHED)	20	10
ALL OTHER ROOMS	40	10	ROOF (CLG. ATTACH	ED)	20	15
STAIRS	40	5	INTERIOR/EXTERIOR	WALLS		8/1
 ULTIMATE DESIGN WIND SPEED: 120 MPH (EXP. CAT. B) DEFLECTION LIMITS: 						
COMPONENT	COMPONENT DEFLECTION LIMIT					IIT
RAFTERS (3:12 SLOPE C	RAFTERS (3:12 SLOPE OR MORE) W/O CLG. ATTACHED L/180					
FLOORS & PLASTERED	FLOORS & PLASTERED CEILINGS L/360					
FRAMING SUPPORTING	FRAMING SUPPORTING MASONRY L/600					

L/480

L/240

FOUNDATION NOTES:

SPANS GREATER THAN 20-FT

ALL OTHER STRUCTURAL MEMBERS

- PROVIDE POSITIVE DRAINAGE AWAY FROM FOUNDATION WALLS. ROOF DRAINAGE SHALL DISCHARGE AT LEAST 5 FEET AWAY FROM FOUNDATION WALLS.
- . ASSUMED SOIL BEARING CAPACITY IS 2000 PSF
- CONTRACTOR IS RESPONSIBLE TO VERIFY SOIL PROPERTIES. . CONCRETE MIN. 28-DAY COMPRESSIVE STRENGTH: 3000 PSI I. FOOTINGS SHALL BEAR A MINIMUM OF 12" BELOW GRADE, SHALL EXTEND BELOW THE FROST LINE AND SHALL BE
- SUPPORTED ON UNDISTURBED NATURAL SOILS OR ENGINEERED FILL. MIN. FOOTING THICKNESS: 6" FOR 1-STORY, 8" FOR $1\frac{1}{2} - 2\frac{1}{2}$ STORY, 10" FOR 3 STORY. MIN. FOOTING PROJECTION IS 2"
- AND SHALL NOT EXCEED THE THICKNESS OF THE FOOTING IN PLAIN CONCRETE FOOTINGS. 5. FOOTINGS FOR MASONRY FIREPLACES/CHIMNEYS SHALL BE AT LEAST 12" THICK WITH MIN. 12" PROJECTION.
- . MIN. 2 X 4 PRESSURE TREATED SILL PLATE AT EXTERIOR WALLS ANCHORED TO FOUNDATION WITH MIN. $\frac{1}{2}$ " DIA. ANCHOR BOLTS @ MAX. 6'-0" O.C. AND MAX. 12" FROM
- CORNERS AND SILL SPLICES. MIN. 7" EMBEDMENT INTO SOLID FILLED MASONRY OR CONCRETE. . SLABS ON GRADE SHALL BE MIN. 4" THICK W/ 6 X 6 WWM OR FIBER REINFORCEMENT OVER 6-MIL POLY OVER 4"
- GRAVEL BASE OVER COMPACTED FILL. REINFORCEMENT SHALL BE PLACED IN THE CENTER OF THE SLAB WHEN USED. CONTROL JOINT LOCATIONS PER CONTRACTOR. . FOUNDATION WALLS WITH GREATER THAN 4 FEET OF
- UNBALANCED FILL SHALL HAVE PERMANENT LATERAL SUPPORT AT THE TOP AND BOTTOM PRIOR TO BACKFILLING. LATERAL SUPPORT PROVIDED BY A SLAB ON GRADE SHALL BE DESIGNED BY THE ENGINEER OF RECORD.
- 10. LOCATE FOUNDATION VENTS WITHIN 3-FT OF EACH CORNER OF THE BUILDING IN VENTED CRAWL SPACES. TOTAL NUMBER OF VENTS REQUIRED PER SECTION R408.1.1 NCRC. DO NOT LOCATE VENTS UNDER POINT LOADS.
- 1. COVER ALL EXPOSED EARTH IN CRAWL SPACES WITH A MIN. 6-MIL POLYETHYLENE VAPOR RETARDER OR EQUIVALENT.
- 12. PROVIDE A MIN. 22" X 30" ACCESS TO CRAWL SPACE, OR LARGE ENOUGH TO ALLOW REMOVAL OF THE LARGEST APPLIANCE LOCATED IN THE CRAWL SPACE. DO NOT LOCATE ACCESS UNDER POINT LOADS.
- 3. FOUNDATION WALLS SHALL HAVE A SOLID 8" CAP. 14. MASONRY SHALL BE LAID IN RUNNING BOND AND SHALL USE TYPE M OR S MORTAR W/ $\frac{3}{8}$ " HEAD AND BED JOINTS. BED JOINTS FOR STARTING COURSES PLACED OVER FOUNDATION
- SHALL BE MIN. $\frac{1}{4}$ " AND MAX. $1\frac{1}{2}$ " 5. WALL HEIGHT, THICKNESS, BACKFILL, AND REINFORCEMENT PER TABLES R404.1.1 (1-4) NCRC.
- 16. CORBELED MASONRY SHALL MEET THE REQUIREMENTS OF SECTION R606.5.

DECK NOTES:

- WHERE A DECK IS ATTACHED TO A STRUCTURE (EXCEPT WITH BRICK VENEER). THE STRUCTURE SHALL HAVE A TREATED WOOD BAND FOR THE LENGTH OF THE DECK, OR CORROSION-RESISTANT FLASHING SHALL BE USED TO
- PREVENT MOISTURE FROM COMING INTO CONTACT WITH THE UNTREATED FRAMING OF THE STRUCTURE. . GIRDER ATTACHMENT SHALL CONFORM TO ONE OF THE
- FOLLOWING: a. GIRDER TOP-MOUNTED ON POST W/ (2) SIMPSON LCE4Z OR AC6Z POST CAPS (OR EQUIV.). CAPS MAY BE OMITTED AND GIRDER MAY BE ATTACHED W/ (3) 16d TOE NAILS WHERE DECK IS LESS THAN 48" ABOVE GRADE.
- b. 2-PLY GIRDERS MAY BE SIDE MOUNTED ON ONE OR BOTH SIDES OF POST, OR NOTCHED INTO 6 X 6 OR LARGER POSTS AND ATTACHED WITH (2) 5/8" DIA. HDG BOLTS. DECKING SHALL BE SYP #2 GRADE TREATED OR EQUIVALENT
- WITH A MINIMUM THICKNESS PER NCRC TABLE AM107.1. A. MAXIMUM HEIGHT OF POSTS IS 8'-0" FOR 4 X 4 POSTS AND
- 20'-0" FOR 6 X 6 POSTS. 5. LATERAL BRACING IS NOT REQUIRED FOR FREESTANDING DECKS LESS THAN 30" ABOVE GRADE OR FOR ATTACHED
- DECKS LESS THAN 48" ABOVE GRADE. . WHERE LATERAL BRACING IS REQUIRED, BRACING SHALL BE
- PROVIDED IN TWO DIRECTIONS FOR FREESTANDING DECKS OR ON THE OUTSIDE POSTS PARALLEL TO THE STRUCTURE FOR ATTACHED DECKS USING ONE OF THE FOLLOWING: a. POST EMBEDMENT i. 4 X 4 POSTS: 1'-0" DIA. X 2'-6" DEEP FOOTING (MAX)
- 4'-0" POST HEIGHT & MAX. 48 SQ. FT. TRIB. AREA). ii. 6 X 6 POSTS: 1'-8" DIA. X 3'-6" DEEP FOOTING (MAX. 6'-0"
- POST HEIGHT & MAX. 120 SQ. FT. TRIB. AREA). b. KNEE BRACING - MIN. 4 X 4 PT BRACES ATTACHED NOT LESS THAN 1/3 OF THE POST HEIGHT FROM TOP AT AN ANGLE BETWEEN 45 AND 60 DEGREES W/ (1) 5/8" DIA. HDG BOLT EACH END.
- c. CROSS BRACING MIN. 2 X 6 PT DIAGONALS ATTACHED EACH END W/ (1) 5/8" DIA. HDG THROUGH BOLT. STAIR STRINGERS SHALL HAVE MINIMUM 3-1/2" DEPTH
- BETWEEN STEP CUT AND BACK OF STRINGER AND SHALL SPAN A MAXIMUM OF 7'-0" BETWEEN SUPPORTS.
- . GUARDS SHALL BE PROVIDED FOR DECKS EXCEEDING 30" ABOVE GRADE AT ANY POINT WITHIN 36" OF DECK.

FRAMING NOTES:

- STUD GRADE. TREATED LUMBER SHALL BE SYP #2 (MIN. Fb = 750 PSI, Fv = 175 PSI, E = 1,400,000 PSI).
- TREATED LUMBER SHALL BE USED IN ALL AREAS SUBJECT TO
- ANTICIPATED END USE AND SERVICE CONDITIONS.
- SILICON BRONZE OR COPPER. 4. LAMINATED VENEER LUMBER (LVL) SHALL MEET THE
- E = 2,000,000 PSI. MULTIPLE LVL PLIES SHALL BE CONNECTED TOGETHER PER MANUFACTURER SPECIFICATIONS UNLESS NOTED OTHERWISE
- LENGTH OF 1¹/₂" ON WOOD AND 3" ON CONCRETE OR MASONRY. BEAMS AND GIRDERS SHALL HAVE FULL BEARING SPLICES SHALL OCCUR OVER A SUPPORT.
- JOISTS: SECTION R502.8 NCRC
- 9. DOUBLE JOISTS UNDER PARALLEL WALLS. 10. PROVIDE LATERAL SUPPORT AT ENDS OF FLOOR JOISTS AND
- NAILS. LAPPED JOISTS PROVIDING RAFTER THRUST
- THE FOLLOWING REQUIREMENTS - ROOF & SUBFLOOR: TABLE R503.2.1.1(1) NCRC
- EXTERIOR WALLS: TABLE R602.3(3) NCRC 13. GYPSUM SHALL MEET THE REQUIREMENTS OF TABLE R702.3.5 NCRC.

- FIREBLOCKING PER SECTION R302.11 NCRC.

WALL BRACING NOTES:

- BLOCKED UNLESS NOTED OTHERWISE.
- DOC PS2. OR ANSI/APA PRP 210.
- FASTENED PER NCRC TABLE R602.10.3(5).
- R602.10.3(5). BRACED WALL LINES. WHERE THIS RETURN IS NOT FOUNDATION OR FLOOR FRAMING BELOW.
- FRAMING PER NCRC SECTION R602.10.4.5.

GENERAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO LATEST
- ADDITIONAL LOCAL REGULATIONS. THE ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS
- PROJECT. THE ENGINEERS SEAL APPLIES ONLY TO
- APPROVAL FROM THE EOR.
- ARE APPLICABLE FOR CONSTRUCTION.

TRUSS NOTES:

- OF SPANS. ENGINEER SHALL REVIEW FINAL TRUSS
- APPARENT.
- MANUFACTURER. METAL-PLATE-CONNECTED WOOD TRUSSES SHALL BE
- REFER TO "BCSI-B3 SUMMARY SHEET PERMANENT

ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI, Fv -135 PSI. E = 1.400,000 PSI). EXCEPT THAT STUDS MAY BE

WEATHER EXPOSURE, MOISTURE CONTENT EXCEEDING 19%, OR DECAY AS DEFINED BY SECTION R317.1 NCRC. LUMBER IN CONTACT WITH GROUND OR EMBEDDED IN CONCRETE SHALL BE RATED FOR GROUND CONTACT USE WITH AN APPROPRIATE USE CATEGORY DESIGNATION FOR THE . FASTENERS FOR TREATED LUMBER SHALL BE OF HOT DIPPED ZINC COATED GALVANIZED STEEL, STAINLESS STEEL,

MINIMUM SPECIFICATIONS: Fb = 2,600 PSI, Fv = 285 PSI,

5. FASTEN STRUCTURAL MEMBERS PER TABLE 602.3(1) NCRC. 6. JOISTS AND RAFTERS SHALL HAVE A MINIMUM BEARING

FOR THE FULL WIDTH OF THE SUPPORT U.N.O. ALL MEMBER

STRUCTURAL MEMBER CUT, BORE, & NOTCH LIMITATIONS: - STUDS & TOP PLATES: SECTION R602.6 NCRC

- BEAMS: CONTACT STRUCTURAL E.O.R. FOR APPROVAL 8. ENGINEER IS NOT LIABLE FOR FAILURE OF MODIFIED STUDS.

BEAMS BY FULL DEPTH SOLID 2X BLOCKING OR ATTACHMENT TO A HEADER, BAND, OR ADJOINING STUD. 11. LAP JOISTS OVER SUPPORTS MIN. 3" & ATTACH W/ (3) 10d

RESISTANCE SHALL BE NAILED PER TABLE R802.5.1(9) NCRC. 12. SHEATHING SHALL BE WOOD STRUCTURAL PANEL MEETING

14. ALL STUD WALLS SHALL BE FRAMED WITH 2 X 4 STUDS AT 16" O.C. U.N.O. BEARING FULLY ON 2X BOTTOM PLATE & CAPPED WITH DOUBLE 2X TOP PLATE. END JOINTS SHALL BE OFFSET AT LEAST 24" & NEED NOT OCCUR OVER STUD UNO. 15. ATTACH DECK BANDS TO THE STRUCTURE PER SEC. AM104 NCRC WHEN DECK IS SUPPORTED AT THE STRUCTURE. PROVIDE BRACING PER SEC. AM109 NCRC. MAXIMUM POST HEIGHT SHALL NOT EXCEED LIMITS OF SEC. AM108 NCRC. 6. PROVIDE DRAFTSTOPPING PER SECTION R302.12 AND

17. PROVIDE TERMITE PROTECTION PER SEC. R318.1 NCRC

EXTERIOR WALLS SHALL BE CONTINUOUSLY SHEATHED WITH MINIMUM 3/8" TH WOOD STRUCTURAL PANEL SHEATHING ATTACHED TO FRAMING WITH 8d NAILS @ 6" OC EDGES & 12" OC FIELD WITH ALL SHEATHING EDGES SOLID

WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS1, INTERIOR SURFACES OF EXTERIOR BRACED WALLS SHALL BE SHEATHED WITH MIN. 1/2" TH GYPSUM WALL BOARD

WALL CORNERS SHALL BE FRAMED PER NCRC FIGURE

. A MIN. 24" LONG SHEATHING RETURN PANEL SHALL BE PROVIDED ON THE INTERSECTING WALL AT ENDS OF PROVIDED, THE BRACED WALL LINE SHALL HAVE A MIN. 48" LONG PANEL AT THE CORNER, OR A HOLD-DOWN DEVICE RATED FOR MIN. 800 LB. SHALL ATTACH THE EDGE OF THE BRACED WALL PANEL CLOSEST TO THE CORNER TO THE

BRACED WALL PANELS SHALL BE CONNECTED TO FLOOR AND CEILING FRAMING PER NCRC FIGURES R602.10.4.4(1) & (2). BRACED WALL PANELS SHALL BE CONNECTED TO ROOF

REQUIREMENTS OF THE 2018 NORTH CAROLINA STATE BUILDING CODE: RESIDENTIAL CODE (NCRC) AND ANY

IS THE STRUCTURAL ENGINEER OF RECORD (EOR) FOR THIS STRUCTURAL COMPONENTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE PLUMBING, MECHANICAL, AND ELECTRICAL

COMPONENTS PRIOR TO FRAMING. NO OTHER PARTY SHALL MODIFY OR REUSE THESE DRAWINGS WITHOUT WRITTEN ONLY SEALED DRAWINGS WITH THE LATEST REVISION DATE

DO NOT SCALE DRAWINGS OR DETAILS. CONTACT ENGINEER OR DESIGNER FOR ANY DIMENSIONS NOT SHOWN ON PLANS. WRITTEN DIMENSIONS OVERRULE SCALED/DEPICTED DIMS. THE ENGINEER ASSUMES NO LIABILITY FOR CONSTRUCTION METHODS OR QUALITY, DEVIATIONS OR OMISSIONS FROM PLANS, OR FAILURE TO MEET THE REQUIREMENTS OF THE NCRC OR THE PROVIDED STRUCTURAL PLANS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY STRUCTURAL DISCREPANCIES THAT ARE IDENTIFIED.

TRUSS LAYOUTS PROVIDED BY OTHERS SHALL COINCIDE WITH THE INFORMATION SHOWN ON THIS PLAN REGARDING TRUSS ORIENTATION, SUPPORT LOCATIONS, AND LENGTH DRAWINGS PRIOR TO CONSTRUCTION. CONTACT ENGINEER IMMEDIATELY SHOULD ANY DISCREPANCIES BETWEEN STRUCTURAL PLANS AND TRUSS DRAWINGS BECOME

TRUSS DESIGN DRAWINGS SHALL BE SEALED BY THE TRUSS

DESIGNED & MANUFACTURED TO COMPLY WITH ANSI/TPI1. TRUSSES SHALL BE BRACED IN ACCORDANCE WITH THE BUILDING COMPONENT SAFETY INFORMATION (BCSI 1-03) GUIDE TO GOOD PRACTICE FOR HANDLING, INSTALLING, & BRACING OF METAL PLATE CONNECTED WOOD TRUSSES.

RESTRAINT/BRACING OF CHORDS & WEB MEMBERS" FOR SUMMARY OF REQUIRED PERMANENT BRACING OF TRUSSES.

ROOF NOTES:

- RAFTERS SHALL BE FRAMED TO A RIDGE BOARD MIN. 1" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. OPPOSING RAFTERS AT THE RIDGE MUST ALIGN WITHIN THE RIDGE MEMBER THICKNESS. . HIP RAFTERS SHALL BE MIN. 2" NOMINAL THICKNESS AND NOT LESS IN DEPTH THAN THE CUT END OF THE RAFTER. REGULARLY SPACED HIP AND VALLEY RAFTERS NEED NOT
- ALIGN. DO NOT SPLICE VALLEY BEAMS. . ROOF SPECS APPLY TO ROOFS WITH MIN. 3:12 PITCH.
- 4. COLLAR TIES SHALL BE MIN. 1" X 4" (NOMINAL), SPACED MAX. 4-FT O.C., LOCATED IN THE UPPER ¹/₃ OF ATTIC SPACE. . STRUCTURAL ROOF MEMBERS SHALL NOT BE CUT, BORED,
- OR NOTCHED IN EXCESS OF THE LIMITATIONS SPECIFIED IN SECTION R802.7 NCRC. . PROVIDE VENTILATION FOR ENCLOSED ATTICS/ RAFTER SPACES FOR EACH ENCLOSED SPACE. MIN. REQUIRED VENTILATION AREA SHALL BE DETERMINED PER SEC. R806.2
- NCRC. PROVIDE MIN. 1" AIR SPACE BETWEEN INSULATION & ROOF SHEATHING AT ROOF VENT LOCATIONS. ATTICS EXCEEDING 400 SQ. FT. SHALL HAVE A MIN. 20" X 30" ACCESS OR LARGE ENOUGH TO ALLOW REMOVAL OF THE
- LARGEST APPLIANCE LOCATED IN THE ATTIC 8. A CRICKET OR SADDLE SHALL BE INSTALLED ON THE RIDGE SIDE OF ANY PENETRATION MORE THAN 30" WIDE AS MEASURED PERPENDICULAR TO THE SLOPE. CRICKETS SHALL
- BE CONSTRUCTED IN COMPLIANCE WITH FIGURE R1003.20 AND TABLE R1003.20 NCRC. . PROVIDE RAFTER TIES PER SEC. R802.3.1 WHERE CEILING
- JOISTS ARE NOT CONNECTED TO RAFTERS AT TOP PLATE.

ABBREVIATIONS

A.B.	ANCHOR BOLT
ABV.	ABOVE
DDL.	ADDITIONAL
BLDR.	BUILDER
BRG.	BEARING
B/T	BETWEEN
BTM.	ВОТТОМ
ANT	CANTILEVER
CI	CFILING IOIST
	CFILING
CLU. CIP	CLEAD
CLR.	CONCRETE MASONRY
CMU	
COI	
COL.	COLUMN
ONC.	CONCRETE
ONT.	CONTINUOUS
DIA.	DIAMETER
DIM.	DIMENSION
DIST.	DISTANCE
DJ	DOUBLE JOIST
DN.	DOWN
DR	DOUBLE RAFTER
DTL	DETAIL
FΔ	FACH
E/E	FACH FND
FO	FOUAI
LQ. IVCT	EVISTINC
EI	EAISTING ELOOD JOIST
ГJ END	FLOOR JUIST
FND.	FOUNDATION
FLK.	FLOOR
RMG.	FRAMING
FT.	FEET/FOOT
FTG.	FOOTING
GA.	GAUGE
GALV.	GALVANIZED
GYP.	GYPSUM
UDC	HOT DIPPED
HDG	GALVANIZED
HDR.	HEADER
ORIZ.	HORIZONTAL
HT.	HEIGHT
ID	INSIDE DIAMETER
IN IN	INCH
INT	INTERIOR
INT. IST	IOIST
JS1. ID	
LD.	LONG LEC PACK
LLBB	TO DACK
	IU BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVI.	LAMINATED VENEER
	LUMBER
MFR.	MANUFACTURER
MAS.	MASONRY
IATL.	MATERIAL

AIIC	NN S
MAX.	MAXIMUM
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.O.	MASONRY OPENING
MONO.	MONOLITHIC
NO.	NUMBER
N.T.S.	NOT TO SCALE
OC	ON CENTER
0.D.	OUTSIDE DIAMETER
O.H.	OVERHANG
OPP.	OPPOSING
OPT.	OPTION(AL)
OCD	ORIENTED STRAND
USD	BOARD
PDS	PULL DOWN STAIRS
PL.	PLATE
PRELIM.	PRELIMINARY
PROJ.	PROJECTION
DCI	POUNDS PER
P31	SQUARE INCH
DCE	POUNDS PER
гэг	SQUARE FOOT
PT	PRESSURE TREATED
QTY.	QUANTITY
RAD.	RADIUS
REINF.	REINFORCE(-ING)
REQD.	REQUIRED
RET.	RETAINING
REV.	REVISION OR REVERSE
R.O.	ROUGH OPENING
RR	ROOF RAFTER
RS	ROOF SUPPORT
SCHED.	SCHEDULE
SEC.	SECTION
SIM.	SIMILAR
SI BB	SHORT LEG BACK
SLDD	TO BACK
SPEC.	SPECIFICATION(S)
SPF	SPRUCE PINE FIR
SQ.	SQUARE
STD.	STANDARD
STL.	STEEL
STRUCT.	STRUCTURAL
SYP	SOUTHERN YELLOW
	PINE
TH.	THICK(NESS)
TR	TRIPLE RAFTER
TYP.	TYPICAL
UNO.	UNLESS NOTED
	OTHERWISE
VERT.	VERTICAL
W/	WITH
W/O	WITHOUT
WT.	WEIGHT
WWF	WELDED WIRE FABRIC

