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## PLANS DESIGNED TO THE **2018 NORTH CAROLINA STATE RESIDENTIAL BUILDING CODE**

MEAN ROOF HEIGHT: 17'-1	HEIGHT TO R	RIDGE: 25'-6"	
CLIMATE ZONE	ZONE 3A	ZONE 4A	ZONE 5A
FENESTRATION U-FACTOR	0.35	0.35	0.35
SKYLIGHT U-FACTOR	0.55	0.55	0.55
GLAZED FENESTRATION SHGC	0.30	0.30	0.30
CEILING R-VALUE	38 or 30ci	38 or 30ci	38 or 30ci
WALL R-VALUE	15	15	19
FLOOR R-VALUE	19	19	30
* BASEMENT WALL R-VALUE	5/13	10/15	10/15
** SLAB R-VALUE	0	10	10
* CRAWL SPACE WALL R-VALUE	5/13	10/15	10/19

\* "10/13" MEANS R-10 SHEATHING INSULATION OR R-13 CAVITY INSULATION \*\* INSULATION DEPTH WITH MONOLITHIC SLAB 24" OR FROM INSPECTION GAP TO BOTTOM OF FOOTING; INSULATION DEPTH WITH STEM WALL SLAB 24" OR TO BOTTOM OF FOUNDATION WALL

DESIGNED FOR WIND SPEED OF 120 MPH, 3 SECOND GUST (93 FASTEST MILE) EXPOSURE "B"									
COMPONENT & CLADDING DESIGNED FOR THE FOLLOWING LOADS									
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'	
ZONE 1	14.2	-15.0	14.9	-15.8	15.5	-16.4	15.9	-16.8	
ZONE 2	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2	
ZONE 3	14.2	-18.0	14.9	-18.9	15.5	-19.6	15.9	-20.2	
ZONE 4	15.5	-16.0	16.3	-16.8	16.9	-17.4	17.4	-17.9	
ZONE 5 15.5 -20.0 16.3 -21.0 16.9 -21.8 17.4 -22.4									
DESIGNED FOR WIND SPEED OF 130 MPH, 3 SECOND GUST (101 FASTEST MILE) EXPOSURE "B"									

COMPONENT	& CLA	DDING	DESIG	NED FC	<u>)r the</u>	FOLLO	WING I	LOADS
MEAN ROOF	UP T	O 30'	30'-1"	TO 35'	35'-1"	TO 40'	40'-1"	TO 45'
ZONE 1	16.7	-18.0	17.5	-18.9	18.2	-19.6	18.7	-20.2
ZONE 2	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5
ZONE 3	16.7	-21.0	17.5	-22.1	18.2	-22.9	18.7	-23.5
ZONE 4	18.2	-19.0	19.1	-20.0	19.8	-20.7	20.4	-21.3
ZONE 5	18.2	-24.0	19.1	-25.2	19.8	-26.2	20.4	-26.9

# **ROOF VENTILATION**

## SECTION R806

R806.1 Ventilation required. Enclosed attics and enclosed rafter spaces formed where ceilings are applied directly to the underside of roof rafters shall have cross ventilation for each separate space by ventilating openings protected against the entrance of rain or snow. Ventilation openings shall have a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Ventilation openings having a least dimension larger than 1/4 inch (6.4 mm) shall be provided with corrosion-resistant wire cloth screening, hardware doth, or similar material with openings having a least dimension of 1/16 inch (1.6 mm) minimum and 1/4 inch (6.4 mm) maximum. Openings in roof framing members shall conform to the requirements of Section R802.7.

**R806.2 Minimum area.** The total net free ventilating area shall not be less than 1/150 of the area of the space ventilated except that reduction of the total area to 1/300 is permitted provided that at least 50 percent and not more than 80 percent of the required ventilating area is provided by ventilators located in the upper portion of the space to be ventilated at least 3 feet (914 mm) above the eave or cornice vents with the balance of the required ventilation provided by eave or cornice vents. As an alternative, the net free cross-ventilation area may be reduced to 1/300 when a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.

Exceptions:

1. Enclosed attic/rafter spaces requiring less than 1 square foot (0.0929 m2) of ventilation may be vented with continuous soffit ventilation only. 2. Enclosed attic/rafter spaces over unconditioned space may be vented with continuous soffit vent only.

SQUARE FOOTAGE OF ROOF TO BE VENTED = 2,369 SQ.FT.

NET FREE CROSS VENTILATION NEEDED:

WITHOUT 50% TO 80% OF VENTING 3'-0" ABOVE EAVE = 15.79 SQ.FT. WITH 50% TO 80% OF VENTING 3'-0" ABOVE EAVE; OR WITH CLASS I OR II VAPOR RETARDER ON WARM-IN-WINTER SIDE OF CEILING = 7.89 SQ.FT.

# **GUARD RAIL NOTES**

## SECTION R312

**R312.1 Where required.** *Guards* shall be located along open-sided walking surfaces, including stairs, ramps and landings, that are located more than 30 inches (762 mm) measured vertically to the floor or *grade* below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

R312.2 Height. Required guards at open-sided walking surfaces, including stairs, porches, balconies or landings, shall be not less than 36 inches (914 mm) high measured vertically above the adjacent walking surface, adjacent fixed seating or the line connecting the leading edges of the treads. Exceptions:

1. Guards on the open sides of stairs shall have a height not less than 34 inches (864 mm) measured vertically from a line connecting the leading edges of the treads.

2. Where the top of the *guard* also serves as a handrail on the open sides of stairs, the top of the guard shall not be not less than 34 inches (864 mm) and not more than 38 inches (965 mm) measured vertically from a line connecting the leading edges of the treads.

R312.3 Opening limitations. Required guards shall not have openings from the walking surface to the required *guard* height which allow passage of a sphere 4 inches (102 mm)in diameter.

## Exceptions:

1. The triangular openings at the open side of a stair, formed by the riser, tread and bottom rail of a *guard*, shall not allow passage of a sphere 6 inches (153 mm) in diameter.

2. Guards on the open sides of stairs shall not have openings which allow passage of a sphere 4 3/8 inches (111 mm) in diameter

# **AIR LEAKAGE**

## Section N1102.4

N1102.4.1 Building thermal envelope. The building thermal envelope shall be durably sealed with an air barrier system to limit infiltration. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. For all homes, where present, the following shall be caulked, gasketed, weather stripped or otherwise sealed with an air barrier material or solid

material consistent with Appendix E-2.4 of this code: 1. Blocking and sealing floor/ceiling systems and under knee walls open to unconditioned or exterior space.

2. Capping and sealing shafts or chases, including flue shafts. 3. Capping and sealing soffit or dropped ceiling areas.



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# **BRACE WALL PANEL NOTES**

**EXTERIOR WALLS:** All exterior walls to be sheathed with CS-WSP or CS-SFB in accordance with section R602.10.3 unless noted otherwise. **GYPSUM:** All interior sides of exterior walls and both sides interior walls to have 1/2" gypsum installed. When not using method GB gypsum to be fastened per table R702.3.5. Method GB to be fastened per table R602.10.1.

**REQUIRED LENGTH OF BRACING:** Required brace wall length for each side of the circumscribed rectangle are interpolated per table R602.10.3. Methods CS-WSP and CS-SFB contribute their actual length. Method GB contributes 0.5 it's actual length. Method PF contributes 1.5 times its actual length.

HD: 800 lbs hold down hold down device fastened to the edge of the brace wall panel closets to the corner.

## Methods Per Table R602.10.1

**CS-WSP**: Shall be minimum 3/8" OSB or CDX nailed at 6" on center at edges and 12" on center at intermediate supports with 6d common nails or 8d(2 1/2" long x 0.113" diameter). **CS-SFB:** Shall be minimum 1/2" structural fiber board nailed at 3" on center at edges and 3" on center at intermediate supports with 1 1/2" long x 0.12" diameter galvanized roofing nails. **GB:** Interior walls show as GB are to have minimum 1/2" gypsum board on both sides of the wall fastened at 7" on center at edges and 7" on center at intermediate supports with minimum 5d cooler nails or #6 screws. **PF**: Portal fame per figure R602.10.1

## **STRUCTURAL NOTES**

All construction shall conform to the latest requirements of the 2018 North Carolina Residential Building Code, plus all local codes and regulations. This document in no way shall be construed to supersede the code.

JOB SITE PRACTICES AND SAFETY: Haynes Home Plans, Inc. assumes no liability for contractors practices and procedures or safety program. Haynes Home Plans, Inc. takes no responsibility for the contractor's failure to carry out the construction work in accordance with the contract documents. All members shall be framed, anchored, and braced in accordance with good construction practice and the building code.

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ESIGN LOADS	LIVE LOAD	DEAD LOAD	DEFLECTION
USE	(PSF)	(PSF)	(LL)
Attics without storage	10	10	L/240
Attics with limited storage	20	10	L/360
Attics with fixed stairs	40	10	L/360
Balconies and decks	40	10	L/360
Fire escapes	40	10	L/360
Guardrails and handrails	200		
Guardrail in-fill components	50		
Passenger vehicle garages	50	10	L/360
Rooms other than sleeping	40	10	L/360
Sleeping rooms	30	10	L/360
Stairs	40		L/360

FRAMING LUMBER: All non treated framing lumber shall be SPF #2 (Fb = 875 PSI) or SYP #2 (Fb = 750 PSI) and all treated lumber shall be SYP #2 (Fb = 750 PSI) unless noted other wise.

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## ENGINEERED WOOD BEAMS

Snow

G

Inc\201009B

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Laminated veneer lumber (LVL) = Fb=2600 PSI, Fv=285 PSI, E=1.9x106 PSI Parallel strand lumber (PSL) = Fb=2900 PSI, Fv=290 PSI, E=2.0x106 PSI Laminated strand lumber (LSL) Fb=2250 PSI, Fv=400 PSI, E=1.55x106 PSI Install all connections per manufacturers instructions.

TRUSS AND I-JOIST MEMBERS: All roof truss and I-joist layouts shall be prepared in accordance with this document. Trusses and I-joists shall be installed according to the manufacture's specifications. Any change in truss or I-ioist layout shall be coordinated with Haynes Homes Plans, Inc. **LINTELS:** Brick lintels shall be 3 1/2" x 3 1/2" x 1/4" steel angle for up to 6'-0" span. 6" x 4" x 5/16" steel angle with 6" leg vertical for spans up to 9'-0" unless noted otherwise. 3 1/2" x 3 1/2" x 1/4" steel angle with 1/2" bolts at 2'-0" on center for spans up to 18'-0" unless noted otherwise. FLOOR SHEATHING: OSB or CDX floor sheathing minimum 1/2" thick for 16" on center joist spacing, minimum 5/8" thick for 19.2" on center joist spacing, and minimum 3/4"

thick for 24" on center joist spacing. **ROOF SHEATHING:** OSB or CDX roof sheathing minimum 3/8" thick for 16" on center rafters and 7/16" for 24" on

center rafters. **CONCRETE AND SOILS:** See foundation notes.

## **EXTERIOR HEADERS**

- (2) 2 X 6 WITH 1 JACK STUD EACH END UNLESS NOTED OTHERWISE

- KING STUDS EACH END PER TABLE BELOW HEADER SPAN < 3' 3'-4' 4'-8' 8'-12' 12'-16' KING STUD(S) 1 2 3 5 6

## **INTERIOR HEADERS**

- LOAD BEARING HEADERS (2) 2 X 6 WITH 1 JACK STUD AND 1 KING STUD EACH END UNLESS NOTED OTHERWISE - NON LOAD BEARING HEADERS TO BE LADDER FRAMED

4 X 4 TREATED POST OR EQUIVALENT TYPICAL. ATTACH RAFTERS TO HEADER WITH HURRICANE CONNECTORS SIMPSON H2.5 OR EQUIVALENT. ATTACH HEADER TO POST AND POST TO BASE WITH POST CAP, METAL STRAPS, AND/OR POST BASE.



# **ATTIC ACCESS**

## **EXTERIOR HEADERS**











attachment flange of 31/2 inches (89 mm) shall be provided at or below the foundation plate line on exterior stud walls in accordance with ASTM C 926. The weep screed shall be placed a minimum of 4 inches (102 mm) above the earth or 2 inches (51 mm) above paved areas and shall be of a type that will allow trapped water to drain to the exterior of the building. The weather-resistant barrier shall lap the attachment flange. The exterior lath

shall cover and terminate on the attachment flange of the weep screed.

alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.

When more than one smoke alarm is required to be installed within an individual *dwelling* unit the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit.

**R314.4 Power source.** Smoke alarms shall receive their primary power from the building wiring when such wiring is served from a commercial source, and when primary power is interrupted, shall receive power from a battery. Wiring shall be permanent and without a disconnecting switch other than those required for overcurrent protection. Smoke alarms shall be interconnected.



WEEP SCREED

SCALE 3/4" = 1'-0"

2. When handrail fittings or bendings are used to provide continuous transition between flights, the transition from handrail to guardrail, or used at the start of a flight, the handrail height at the fittings or bendings shall be permitted to exceed the maximum height.

129 SQ FT 510 SQ FT 639 SQ FT

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11/3/2020

201009B

PAGE 8 OF 8

RONT POR

ARAGE

CONTINUOUS HANDRAIL

34 TO 38 INCHES

ABOVE TREAD NOSING

**TYPICAL STAIR DETAIL** 

SCALE 1/4" = 1'-0"

R311.7.7.2 Continuity. Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. Handrails adjacent to a wall shall have a space of not less than 11/2 inch (38 mm) between the wall and the handrails.

Exceptions

1. Handrails shall be permitted to be interrupted by a newel post. 2. The use of a volute, turnout, starting easing or starting newel shall be allowed over the lowest tread.

3. Two or more separate rails shall be considered continuous if the termination of the rails occurs within 6 inches (152 mm) of each other. If transitioning between a wall-mounted handrail and a guardrail/handrail, the wall-mounted rail must return into the wall.







### Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Nail from both sides. Maximum end distance not to exceed 6"

Capacity	99.1 %
Load	324.5 PLF
Yield Limit per Foot	327.4 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	D+L
Duration Factor	1.00

### Concentrated Load

Fasten at concentrated side load at 7-4-0 with a minimum of (14) – 10d Box nails (.128x3") in the

pattern shown. Repeat fasteners on both sides.

pattern snown. Repeat	puttern shown repeat lasteriers on both slates.					
Capacity	90.5 %					
Load	1192.0lb.					
Total Yield Limit	1317.0 lb.					
Cg	0.9994					
Yield Limit per Fastener	94.1 lb.					
Yield Mode	IV					
Load Combination	D+S					
Duration Factor	1.15					

### Concentrated Load

Fasten at concentrated side load at 14-7-0 with a minimum of (14) – 10d Box nails (.128x3") in the pattern shown. Repeat fasteners on both sides.

Capacity	90.5 %
Load	1192.0lb.
Total Yield Limit	1317.0 lb.
Cg	0.9994
Yield Limit per Fastener	94.1 lb.
Yield Mode	IV
Load Combination	D+S
Duration Factor	1.15

chemicals

approvals

3

5

Handling & Installation

Damaged Beams must not be used

### Min/Max fastener distances for Concentrated Side Loads



Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive

Notes

Lumber



	Client: J.W. Sealey	Date:	12/16/2020	Page 5 of 10
	Project:	Input by:	David Landry	Ŭ,
isDesign	Address:	Job Nam	e: Lot 77 South Creek	
		Project #	J1220-5656	
BM2 Kerto-S LVL	1.750" X 9.250"	2-Plv - PASSED	Level: Level	
		<b>y</b>		
	•			
	• • •		• • •	
	• •		• • •	9 1/4"
1 SPF End Grain			2 SPF End G	rain
4		11'		3 1/2"
/ <i>/</i>		11'		<del>_</del>
				·
Multi-Ply Analysis				
Fasten all plies using 3 rows of	10d Box nails (.128x3") at 12"	o.c Maximum end distance n	ot to exceed 6"	
Capacity 81.2	2 %			
Load 199	.4 PLF			
Yield Limit per Foot 245 Vield Limit per Fastener 81.0				
Yield Mode IV	5 ID.			
Edge Distance 1 1/	2"			
Min. End Distance 3"				
Load Combination D+L Duration Eactor 1.00	-			
Notes	chemicals	6. For flat roofs provide proper drainage to prevent ponding	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the	Handling & Installation 1. LVL beams must not be cut or drilled	F8	Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA 28314
design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the interded	<ol> <li>Refer to manufacturer's product information regarding installation requirements, multi-ply feature details</li> </ol>		Norwalk, CT 06851	910-864-TRUS
application, and to verify the dimensions and loads.	astening details, beam strength values, and code approvals 3. Damaged Beams must not be used		www.metsawood.com/us	
1. Dry service conditions, unless noted otherwise	<ol> <li>Besign assumes top edge is laterally restrained</li> <li>Provide lateral support at bearing points to avoid</li> </ol>		IUU-ES: ESR-3633	COMTECH
<ol> <li>LVL not to be treated with fire retardant or corrosive</li> </ol>	lateral displacement and rotation	This design is valid until 2/26/2023		CONTECH



CSD DESIGN



1	isDesign	C P A	lient: J. roject: ddress:	.W. Sealey		D Ir Ja P	ate: nput by: ob Name: roject #:	12/16/2020 David Landry Lot 77 South Creek J1220-5656	Page 8 of 10
GDH	Kerto-S I	_VL 1.	750" X	14.000"	2-Ply	- PASSE	D Le	evel: Level	
	• • •	· · ·	•	· · ·	•	· · ·	•	2 SPF End Grain	
					16'10"				3 1/2"
<u> </u>					16'10"				
Julti-Ply asten all	r <b>Analysis</b> plies using 3 ro	ws of 10d Bc	ox nails ( 1	28x3") at 12"	o c Maxim	um end dista	ince not	to exceed 6"	
apacity	plies using 5 to	0.0 %		20,5 ) at 12	0.с Махіпі		ince not		
oad ield Limit ne	er Foot	0.0 PLF 245 6 PLF							
ield Limit pe	er Fastener	81.9 lb.							
ield Mode		IV							
dge Distanc	e tanaa	1 1/2"							
oad Combin	lance	3							
Juration Fact	tor	1.00							

Notes	chemicals	6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. <b>Lumber</b> 1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive	<ol> <li>Handling &amp; Installation</li> <li>LVL beams must not be cut or drilled</li> <li>Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals</li> <li>Damaged Beams must not be used</li> <li>Design assumes top edge is laterally restrained</li> <li>Provide lateral support at bearing points to avoid lateral displacement and rotation</li> </ol>	ponding This design is valid until 2/26/2023	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633	Fayetteville, NC USA 28314 910-864-TRUS
Version 20.20.044 Deversed by Chryster				

CSD DESIGN



	/		Client:	J.W. Sealey		Date	e:	12/16/2020	Page 10 c
1	Design		Project:			Inpu	it by:	David Landry	
	SDesign		Audress.			Proje	ect #:	J1220-5656	
GDH2	Kerto-S	LVL	1.750"	' X 11.875	" 2-Ply	- PASSE	D	evel: Level	
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Yield Mode		IV							
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Load Combinat	tion	5							
Duration Factor	r	1.00							
Notes		cherr	icals		6. For flat roofs prov	ide proper drainage to pre	event	Manufacturer Info	Comtech, Inc.
Calculated Structure	ed Designs is responsible or	hly of the Handli	ng & Installati	on	ponding	propor unamage to ple		Metsä Wood	Fayetteville, NC
design criteria an responsibility of the	nd loadings shown. It customer and/or the contr	is the 2. Refer ractor to regar	peams must not be c to manufacture ding installation	ut or drilled er's product information requirements, multi-plv				Norwalk, CT 06851	28314 910-864-TRUS
ensure the compo application, and to ve	onent suitability of the erify the dimensions and loa	intended faste ids. appro	ning details, beam ovals	strength values, and code			(	800) 622-5850 www.metsawood.com/us	
1. Dry service cond	litions, unless noted otherwis	3. Dam 4. Desig se 5. Provi	de lateral support	e is laterally restrained at bearing points to avoid				CC-ES: ESR-3633	COMTECH
2. LVL HUT TO DE TR	cated with life retardant or (	latera	al displacement and	rotation	This design is v	valid until 2/26/2023			



Roof Area	= 3920.39 sq.ft.	
Ridge Line	= 98.89 ft.	
Hip Line	= 20.18 ft.	
Horiz. OH	= 164.28 ft.	
Raked OH	= 249.56 ft.	
Decking	= 135 sheets	

		Conne	Nail Informati				
Sy	m	Product	Manuf	Qty	Supported Member	Header	Tr
		HUS26	USP	26	NA	16d/3-1/2"	16d/
		THD26-2	USP	2	NA	16d/3-1/2"	10

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TI R	RUS Fayet Phon Fax	SES teville e: (91 : (910)	<b>&amp; B</b> ndustr 2, N.C. 0) 864 864-4	ial Par 28309 -8787	<b>ΛS</b>
Bearing deemed requiren attached requiren size and reaction Tables. <i>i</i> retained reaction	reactions to compl ents. The Tables ( ents) to number s greater A register to design that exce A register to design s that exce	less that y with the e contract derived f determin of wood s than 300 red design the supple eds thos ed design the supple ed thos sed thos	n or equa e prescrip tor shall r rom the p le the min studs requination of the profess port syste e specifie n profess port syste 0#.	I to 3000# tive Code efer to the prescriptiv imum fou uired to si t greater t ional shal em for any d in the a ional shal ional shal	e re Code Indation upport han II be / ttached I be
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13600 13600 15300	, 8 9				
Harnett County / Harnett	Lot 77 South Creek	Roof	12/15/20	David Landry	. Neil Baggett
CI TY / CO.	ADDRESS	MODEL	DATE REV.	DRAWN BY	SALES REP
J. W. Sealey	Lot 77 South Creek	Carter III	Seal Date	Ouote #	J1220-5656
<b>BUI LDER</b>	JOB NAME	PLAN	SEAL DATE	QUOTE #	JOB #
THIS IS These t compor design See ind identifie designe perman for the support	A TRUSS rrusses ar nents to b at the sp lividual de ed on the er is resp ent braci overall st t structur	S PLACEN re design be incorpo ecification esign she placemen onsible fo ng of the ructure. 1 e includir	MENT DIA ed as indi prated inten of the b ets for ea nt drawing or tempora roof and The desig ng header	GRAM ON vidual buid o the build uilding de ch truss o g. The buid ary and floor syst n of the tr s, beams,	ILY. ilding signer. design ilding eem and russ walls, diac