ADDRESS . : 1190 HOLLIES PINES RD SUBDIV:
CONTRACTOR : JERRY TAYLOR PHONE : (252) 378-5523
OWNER . . : BYRD WILLIAM E FAMILY LIMITED PHONE :
PARCEL . . : 13-9692- - -0014- -78-
APPL NUMBER: 15-50036705 CP NEW RESIDENTIAL (SFD)

DIRECTIONS : T/S: 07/24/2015 08:47 AM KGOINS ----
TAKE 421 TOWARD SANDORD T/R ON HOLLY
SPRINGS CHURCH RD GO PAST HOLLY SPRINGS
CHURCH T/L ONTO HOLLIES PINES RD SITE
ON RIGHT AT THE END OF HOLLIE PINES RD

STRUCTURE: 000 000 56X84W/12X84 LEANTO ON SIDES 3BR MONO
FLOOD ZONE . . . . . : FLOOD ZONE X
BEDROOMS . . . . . : 3000000.00 PROPOSED USE . . . . . : SFD
SEPTIC - EXISTING? . . . . : NEW SEPTIC WATER SUPPLY . . . . . : COUNTY

PERMIT: CPSF 00 CP * SFD

TYP/SQ	REQUESTED / COMPLETED	INSP RESULT	DESCRIPTION / RESULTS/COMMENTS
A814 01	1/23/17	TW	ADDRESS CONFIRMATION TIME: 17:00 VRU #: 002922672
	1/24/17	AP	1190 Hollies Pines Rd Broadway 27505
			T/S: 01/24/2017 08:15 AM TWARD ----------
R425 01	1/23/17	TSG	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 002922698
	1/23/17	DA	T/S: 01/19/2017 02:10 PM JBROCK ----------
			~~1~~-NEED INSULATION INSTALLED FOR SLAB OR CONTACT ENGINEER FOR ALTERNATIVE. ~~2~~-INSTALL INSULATION BAFFLES ~~3~~-NAIL STAIR LEDGER. 4-SEAL FLOOR UNDER TUBS AT VOIDS. 5-NEED TRUSS REPAIR DOCS. 6-FIRE SEAL TOP OF WALL BEHIND TUB/SHOWER. 7- NEED ENGINEER TO CHECK FOOTERS INSTALLED FOR SHELTER. GAS TEST FOR GEN IS GOOD
R125 01	2/24/17	TI AP	ONE TRADE ROUGH IN TIME: 17:00 VRU #: 002936870
			T/S: 02/22/2017 02:54 PM LBENNETT ----------
			DECK FOOTER FOR STAIRS COMING FROM THE UPSTAIRS ON OUTSIDE
			T/S: 02/22/2017 02:55 PM LBENNETT ----------
R425 02	2/24/17	TI AP	FOUR TRADE ROUGH IN TIME: 17:00 VRU #: 002936854
			T/S: 02/22/2017 02:53 PM LBENNETT ----------
			T/S: 02/22/2017 02:53 PM LBENNETT ----------
			T/S: 02/22/2017 02:55 PM LBENNETT ----------

---------- COMMENTS AND NOTES ----------

February 13, 2012

TO: Jeff Byrd

FROM: Brett H. Bruton, PE

SUBJECT: Footings for Front and Rear Shelters
1190 Hollies Pines Road Dwelling
Broadway, NC 27505

Dear Jeff:

I apologize for just now getting back to you concerning the footings supporting the 6x6 treated columns and the shelter/roof above them.

I personally inspected them on January 27th and found the following:

1. Each footing inspected appeared to be 22" x 22" in area and 6" in thickness.

2. The top of each footing inspected was 12" below the ground line.

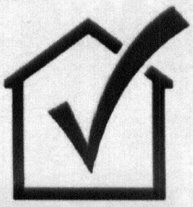
The footings are more than adequate to meet the bearing requirements of the ice live load, structure dead load, and weight of the column. They exceed the requirements of the NC State Building Code.

Should you have any questions or require additional information, please let me know.

Sincerely,

Brett H. Bruton

Brett H. Bruton, PE



Generated by RES*check-Web* Software

Compliance Certificate

Project Title: Byrd-WEBFLP

Energy Code:	**North Carolina Energy Conservation Code**
Location:	**Lillington, North Carolina**
Construction Type:	**Single Family**
Project Type:	**New construction**
Building Orientation:	**Bldg. faces 270 deg. from North**
Glazing Area Percentage:	**5%**
Heating Degree Days:	**3502**
Climate Zone:	**4**

Construction Site:

1190 Hollies Pines Rd.
Broadway, North Carolina 27505
Permit # 15-50036705
Permit Date: 12/12/16

Owner/Agent:

Jeff Byrd
William E. Byrd Family Limited Partnership
3507 Cemetery Rd.
Sanford, North Carolina 27332
252-341-3558
byrdwj@guc.com

Designer/Contractor:

Jeff Byrd
William E. Byrd Family Limited Partnership
3507 Cemetery Rd.
Sanford, North Carolina 27332
252-341-3558
byrdwj@guc.com

Compliance: Passes using UA trade-off

Compliance: **1.3% Better Than Code** Maximum UA: **386** Your UA: **381** Maximum SHGC: **0.30** Your SHGC: **0.28**

The % Better or Worse Than Code index reflects how close to compliance the house is based on code trade-off rules.
It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Glazing or Door U-Factor	UA
Floor: Heated Slab-On-Grade Insulation depth: 0.0'	148		0.0		154
Wall: Wood Frame, 16in. o.c. Orientation: Front	336	19.0	0.0		17
Window: Wood Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Front	33			0.300	10
Door: Solid Orientation: Front	17			0.300	5
Wall: Wood Frame, 16in. o.c. Orientation: Right Side	256	19.0	0.0		15
Window: Wood Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Right Side	8			0.300	2
Wall: Wood Frame, 16in. o.c. Orientation: Back	336	19.0	0.0		17
Window: Wood Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	11			0.300	3
Window: Wood Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	8			0.300	2
Door: Glass SHGC: 0.28 Orientation: Back	30			0.300	9
Wall: Wood Frame, 16in. o.c. Orientation: Left Side	200	19.0	0.0		12
Wall: Wood Frame, 16in. o.c. Orientation: Left Side	120	19.0	0.0		6
Door: Solid	17			0.300	5

Orientation: Left Side					
Ceiling: Flat or Scissor Truss	886	38.0	0.0		27
Floor: All-Wood Joist/Truss Over Uncond. Space	486	19.0	0.0		23
Wall: Wood Frame, 24in. o.c. Orientation: Front	219	15.0	5.0		11
Wall: Wood Frame, 16in. o.c. Orientation: Right Side	108	15.0	0.0		7
Door: Solid Orientation: Right Side	20			0.300	6
Wall: Wood Frame, 24in. o.c. Orientation: Back	208	15.0	5.0		11
Wall: Wood Frame, 16in. o.c. Orientation: Back	176	20.0	0.0		10
Window: Wood Frame, 2 Pane w/ Low-E SHGC: 0.28 Orientation: Back	8			0.300	2
Wall: Wood Frame, 16in. o.c. Orientation: Left Side	108	15.0	0.0		7
Door: Solid Orientation: Left Side	17			0.300	5
Ceiling: Flat or Scissor Truss	486	38.0	0.0		15

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the North Carolina Energy Conservation Code requirements in RES*check-Web* and to comply with the mandatory requirements listed in the RES*check* Inspection Checklist.

Kyle Brown — Name - Title

Signature

2-15-17 — Date

Project Notes:

Jeff Byrd 1190 Hollies Pines Rd. Broadway, NC

Generated by RES*check-Web* Software

Inspection Checklist

Energy Code:	**North Carolina Energy Conservation Code**
Location:	**Lillington, North Carolina**
Construction Type:	**Single Family**
Project Type:	**New construction**
Building Orientation:	**Bldg. faces 270 deg. from North**
Glazing Area Percentage:	**5%**
Heating Degree Days:	**3502**
Climate Zone:	**4**

Ceilings:

❑ Ceiling: Flat or Scissor Truss, R-38.0 cavity insulation
Comments: _____

❑ Ceiling: Flat or Scissor Truss, R-38.0 cavity insulation
Comments: _____

Above-Grade Walls:

❑ Wall: Wood Frame, 16in. o.c., R-19.0 cavity insulation
Comments: _____

❑ Wall: Wood Frame, 16in. o.c., R-19.0 cavity insulation
Comments: _____

❑ Wall: Wood Frame, 16in. o.c., R-19.0 cavity insulation
Comments: _____

❑ Wall: Wood Frame, 16in. o.c., R-19.0 cavity insulation
Comments: _____

❑ Wall: Wood Frame, 16in. o.c., R-19.0 cavity insulation
Comments: _____

❑ Wall: Wood Frame, 24in. o.c., R-15.0 cavity + R-5.0 continuous insulation
Continuous insulation specified for this above-grade wall has consistent R-value rating across full area of the wall.
Comments: _____

❑ Wall: Wood Frame, 16in. o.c., R-15.0 cavity insulation
Comments: _____

❑ Wall: Wood Frame, 24in. o.c., R-15.0 cavity + R-5.0 continuous insulation
Continuous insulation specified for this above-grade wall has consistent R-value rating across full area of the wall.
Comments: _____

❑ Wall: Wood Frame, 16in. o.c., R-20.0 cavity insulation
Comments: _____

❑ Wall: Wood Frame, 16in. o.c., R-15.0 cavity insulation
Comments: _____

Windows:

❑ Window: Wood Frame, 2 Pane w/ Low-E, U-factor: 0.300, SHGC: 0.28,
For windows without labeled U-factors, describe features:
#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No
Comments: _____

❑ Window: Wood Frame, 2 Pane w/ Low-E, U-factor: 0.300, SHGC: 0.28,
For windows without labeled U-factors, describe features:
#Panes ____ Frame Type _____ Thermal Break? ____ Yes ____ No

Comments: ___

- [ ] Window: Wood Frame, 2 Pane w/ Low-E, U-factor: 0.300, SHGC: 0.28,
For windows without labeled U-factors, describe features:
#Panes ___ Frame Type ___ Thermal Break? ___ Yes ___ No
Comments: ___

- [ ] Window: Wood Frame, 2 Pane w/ Low-E, U-factor: 0.300, SHGC: 0.28,
For windows without labeled U-factors, describe features:
#Panes ___ Frame Type ___ Thermal Break? ___ Yes ___ No
Comments: ___

- [ ] Window: Wood Frame, 2 Pane w/ Low-E, U-factor: 0.300, SHGC: 0.28,
For windows without labeled U-factors, describe features:
#Panes ___ Frame Type ___ Thermal Break? ___ Yes ___ No
Comments: ___

Doors:

- [ ] Door: Solid, U-factor: 0.300
Comments: ___

- [ ] Door: Glass, U-factor: 0.300, SHGC: 0.28,
Comments: ___

- [ ] Door: Solid, U-factor: 0.300
Comments: ___

- [ ] Door: Solid, U-factor: 0.300
Comments: ___

- [ ] Door: Solid, U-factor: 0.300
Comments: ___

Floors:

- [ ] Floor: Heated Slab-On-Grade, R-0 (uninsulated)
Comments: ___
Slab insulation extends down from the top of the slab to at least 0.0 ft. OR down to at least the bottom of the slab then horizontally for a total distance of 0.0 ft. Slab edge insulation must have a 2 inch termite inspection gap.

- [ ] Floor: All-Wood Joist/Truss Over Uncond. Space, R-19.0 cavity insulation
Comments: ___
Floor insulation is installed to maintain permanent continuous contact with the underside of the subfloor decking, and insulation ends are blocked. Insulation supports that are noncontinuous (i.e., tension support wires) are spaced no more than 18 inches apart and are within 6 inches from each end of the insulation.

Solar Heat Gain Coefficient:

- [ ] Solar Heat Gain Coefficient (SHGC) values are determined in accordance with the NFRC test procedure or taken from the default table.

Air Leakage:

- [ ] Joints (including rim joist junctions), attic access openings, penetrations, and all other such openings in the building envelope that are sources of air leakage are sealed with caulk, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material.
- [ ] Air barrier and sealing exists on common walls between dwelling units, on exterior walls behind tubs/showers, and in openings between window/door jambs and framing.
- [ ] Recessed lights in the building thermal envelope are 1) type IC rated and ASTM E283 labeled and 2) sealed with a gasket or caulk between the housing and the interior wall or ceiling covering.
- [ ] Access doors separating conditioned from unconditioned space (e.g., attic, unconditioned basements and crawlspaces) are weather-stripped and insulated (without insulation compression or damage). Where loose fill insulation exists, a wood framed or equivalent baffle is installed to maintain insulation application. Required insulation values are as follows:

  (1) Hinged vertical doors have a minimum of R-5 insulation.

  (2) Hatches/scuttle hole covers have a minimum of R-10 insulation.

  (3) Pull down stairs have a minimum of R-5 rigid insulation.
- [ ] Site-built masonry fireplaces have doors and comply with Section R1006 of the North Carolina Residential Code for combustion air.

Air Sealing and Insulation:

- ☐ Building envelope air tightness and insulation installation complies with one of the following (mark the method that was applied):

  (1) ____ Post rough-in blower door test result of less than or equal to 5 ACH at 50 pascals.

  (2) ____ Post rough-in blower door test result of less than or equal to 0.30 CFM50/square foot of surface area.

  (3) ____ Visual inspection. The following items, along with all other air leakage requirements in this report, are certified by the builder, permit holder or registered design professional as completed.

  (a) Ceiling/attic: Sealants or gaskets provide a continuous air barrier system joining the top plate of framed walls with either the ceiling drywall or the top edge of wall drywall to prevent air leakage. Top plate penetrations are sealed.

  (b) Ceiling/attic: For ceiling finishes that are not air barrier systems such as tongue-and-groove planks, air barrier systems (e.g., taped house wrap) are used above the finish.

  (c) Above Grade Walls: Sill plate is gasketed or sealed to subfloor or slab.

  (d) Windows/doors: Space between window and door jambs and framing are sealed.

  (e) Floors: Air barrier system is installed at any exposed edge of insulation.

Sunrooms:

- ☐ Sunrooms that are thermally isolated from the building envelope have a maximum fenestration U-factor of 0.40 and the maximum skylight U-factor of 0.75.
- ☐ Sunrooms with cooling systems shall have a maximum fenestration SHGC or 0.40 for all glazing.

Materials Identification and Installation:

- ☐ Materials and equipment are installed in accordance with the manufacturer's installation instructions.
- ☐ Materials and equipment are identified so that compliance can be determined.
- ☐ Manufacturer manuals for all installed heating and cooling equipment and service water heating equipment have been provided.
- ☐ Insulation R-values and glazing U-factors are clearly marked on the building plans or specifications.

Duct Insulation:

- ☐ Supply and return ducts in unconditioned space and outdoors are insulated to R-8. Supply ducts inside semi-conditioned space are insulated to R-4.

Duct Construction and Testing:

- ☐ Building framing cavities are not used as supply ducts.
- ☐ All joints and seams of air ducts, air handlers, filter boxes, and building cavities used as return ducts are sealed. Joints and seams comply with Part V - Mechanical, Section 603.9 of the North Carolina Residential Code.
- ☐ Postconstruction total duct leakage test (including air handler enclosure) has been performed and results are less than or equal to 111.5 cfm (6 cfm per 100 ft2 of conditioned floor area) pressure differential of 0.1 inches w.g. Tests are performed according to North Carolina Energy Conservation Code guidelines (Section 403.2.2).

Temperature Controls:

- ☐ Where the primary heating system is a forced air-furnace, at least one programmable thermostat is installed to control the primary heating system and has set-points initialized at 70 degree F for the heating cycle and 78 degree F for the cooling cycle.
- ☐ Heat pumps having supplementary electric-resistance heat have controls that prevent supplemental heat operation when the compressor can meet the heating load.

Heating and Cooling Equipment Sizing:

- ☐ Heating and cooling equipment shall be sized in accordance with the North Carolina Mechanical Code.
- ☐ For systems serving multiple dwelling units documentation has been submitted demonstrating compliance with 2009 IECC Commercial Building Mechanical and/or Service Water Heating (Sections 503 and 504).

Circulating Service Hot Water Systems:

- ☐ Circulating service hot water pipes are insulated to R-2.
- ☐ Circulating service hot water systems include an automatic or accessible manual switch to turn off the circulating pump when the system is not in use.

Heating and Cooling Piping Insulation:

- ☐ HVAC piping conveying fluids above 105 degrees F or chilled fluids below 55 degrees F are insulated to R-3.

Swimming Pools:

- ☐ Heated swimming pools have an on/off heater switch.
- ☐ Pool heaters operating on natural gas or LPG have an electronic pilot light.
- ☐ Timer switches on pool heaters and pumps are present.

Exceptions:

Where public health standards require continuous pump operation.

Where pumps operate within solar- and/or waste-heat-recovery systems.

☐ Heated swimming pools and in-ground permenantly installed spas have a vapor-retardent cover.
Exceptions:

Covers are not required when 70% of the heating energy is from site-recovered energy or solar energy source.

Lighting Requirements:

☐ A minimum of 75 percent of the lamps in permanently installed lighting fixtures can be categorized as one of the following:

(a) Compact fluorescent

(b) T-8 or smaller diameter linear fluorescent

(c) 40 lumens per watt for lamp wattage <= 15

(d) 50 lumens per watt for lamp wattage > 15 and <= 40

(e) 60 lumens per watt for lamp wattage > 40

Other Requirements:

☐ Snow- and ice-melting systems with energy supplied from the service to a building shall include automatic controls capable of shutting off the system when a) the pavement temperature is above 50 degrees F, b) no precipitation is falling, and c) the outdoor temperature is above 40 degrees F (a manual shutoff control is also permitted to satisfy requirement 'c').

Certificate:

☐ A permanent certificate is provided on or in the electrical distribution panel listing the predominant insulation R-values; window U-factors; type and efficiency of space-conditioning and water heating equipment. The certificate does not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels.

NOTES TO FIELD: (Building Department Use Only)

North Carolina Energy Efficiency Certificate

Insulation Rating	R-Value
Ceiling / Roof	38.00
Above-Grade Wall	19.00
Below-Grade Wall	0.00
Floor	19.00
Ductwork (unconditioned spaces):	____

Glass & Door Rating	U-Factor	SHGC
Window	0.30	0.28
Door	0.30	0.28

Heating & Cooling Equipment	Efficiency
Heating System:_____	_____
Cooling System:_____	_____
Water Heater:_____	_____

Building Air Leakage and Duct Test Results	
Air Leakage Compliance Method:	___ Visual Inspection ___ Air Leakage Test
Building Air Leakage Test Results	_____
Name of Air Leakage Tester	_____
Duct Tightness Test Results	_____
Name of Duct Tester	_____

Name: _____ Date: _____

Comments:

S&S Building Products

1004 South George St
Goldsboro NC, 27530

Work Agreement

Date: 9/19/16

NOTE: This proposal may be withdrawn by us if not accepted within 30 days

Agreement # 11190

Bill To

JEFF BYRD
4920 EASTERN PINES RD
GREENVILLE , NC 27858

Project Information

Job Desc: INSULATION
Lot #:
Address: 1190 HOLLIES PINES ROAD
BROADWAY, NC

Work Area	Item
INS-Batts - EXT WALLS	R-19 JM19F16 Batt - 16X96
EXT WALLS	R-19 JM19F16 Batt - 16X96
EXT WALLS	R-15 FRICTION FIT BATTS 15X93 Batt - 15X93
WALLS JOINING GARAGE	R-19 JM19K16 Batt - 16 X96
KNEE WALLS	R-15 FRICTION FIT BATTS 15X93 Batt - 15X93
KNEE WALLS	R-19 JM19F16 Batt - 16X96
BATTED ATTIC	R-38 KRAFT FACE 24X48 Batt - 24X48
BATTED ATTIC	R-30 FRICTION FIT BATT 24X48 Batt - 24X48
POLY VENTS	16" POLYVENT
BAFFLES	16" BAFFLES
BAFFLES	24 BAFFLES
SOUND	R-11 JM11K15 Batt - 15X93
IN BETWEEN FLOORS	R-19 FICTION FIT BATT 24X48 Batt - 24X48
SILL SEAL	SILL SEAL
FOAM WINDOWS AND DOORS	WINDOW DOOR FOAM
CAULKING OPTION	CAULKING

Notes

HOUSE ON SLAB

INS-Batts	

Work Agreement Price: $4,700.00

We propose hereby to furnish material & labor in accordance with the above specifications. Payment to be made in full in accordance with the terms stated herein. All material is guaranteed to be as specified. All work to be completed in a workman-like manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders and will become an extra charge over and above the estimate. We are not responsible for any provisions within the National Standard Plumbing Code (NSPC). All agreements contingent upon strikes, accidents, or delays beyond our control. Our workers are fully covered by Worker's Compensation Insurance. Please note the following: the number of inches of foam is an overall average and may vary in certain areas . The foam application is not perfectly uniform. In areas to be finished with sheetrock, excess foam will be trimmed to face of stud and placed in dumpster to be provided by customer. If dumpster is not available, excess will be piled for removal by customer, all work areas must be free of debris and any items which might interfere with installation; it is required that spray polyurethane foam insulation is covered with an approved thermal barrier. Local code may require a vapor barrier to be applied over open cell foam . This would be an additional cost unless included in the above proposal.

Payment Terms: PAYMENT TO BE MADE UPON BILLING

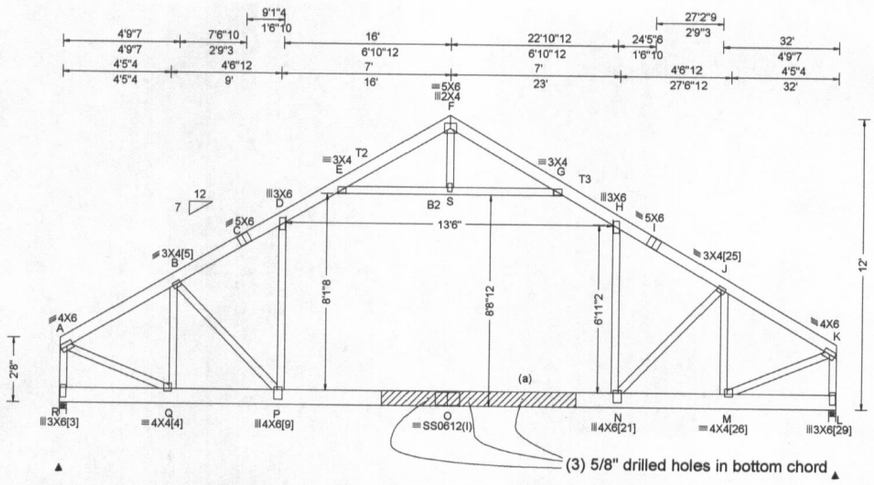
ACCEPTANCE OF PROPOSAL

THE ABOVE PRICES, SPECIFICATIONS AND CONDITIONS ARE SATISFACTORY AND ARE HEREBY ACCEPTED. YOU ARE AUTHORIZED TO DO THE WORK AS SPECIFIED.

Customer Signature _____ Date _____ Insulation Specialist: JEFFREY JONES _____ Date _____

Phone: (919) 736-0475 Fax: (919) 736-0476

Job Number: 116437 1161 Hollies Pines Rd. **Truss Label:** A2 REPAIR #1	Ply: 1 Qty: 20	SEQN: 1623 / T13 ATIC FROM: Page 1 of 2	Cust: R5227 JRef: 1VWJ52270001 DrwNo: 347.16.0921.34200 JB / WHK 12/12/16



(3) 5/8" drilled holes in bottom chord

Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-05
Speed: 120 mph
Enclosure: Closed
Category: II
EXP: B
Mean Height: 15.46 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.20 ft
Loc. from endwall: Any
I: 1.0 GCpi: 0.18
Wind Duration: 1.33

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: - CAT: -
Pf: 20.0 Ce: -
Lu: - Cs: -
Snow Duration: -

Code / Misc Criteria
Bldg Code: IBC 2009
TPI Std: 2007
Rep Factors Used: Yes
FT/RT:20(0)/0(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.137	N	999	240
VERT(TL): 0.435	N	882	180
HORZ(LL): 0.091	D	-	-
HORZ(TL): 0.289	D	-	-

Creep Factor: 1.5
Max TC CSI: 0.753
Max BC CSI: 0.586
Max Web CSI: 0.787

VIEW Ver: 16.02.00.0929.14

▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
R	1982	/ 201	/ 404	/ -	/ 232	/ 3.5
L	1982	/ 201	/ 404	/ -	/ -	/ 3.5

Wind reactions based on MWFRS
R Min Brg Width Req = 1.6
L Min Brg Width Req = 1.6
Bearings R & L are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	508	- 2034	F - G	188	- 377
B - C	604	- 2590	G - H	599	- 2034
C - D	612	- 2513	H - I	612	- 2513
D - E	599	- 2034	I - J	604	- 2590
E - F	188	- 377	J - K	508	- 2034

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1768	- 389	O - N	2060	- 318
P - O	2060	- 318	N - M	1768	- 389

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - R	476	- 1877	S - G	570	- 2042
A - Q	1901	- 419	H - N	1015	- 53
Q - B	186	- 1113	N - J	601	- 207
B - P	601	- 206	J - M	186	- 1113
P - D	1015	- 53	M - K	1901	- 419
E - S	570	- 2042	K - L	476	- 1877

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x6 SP #2
:T2, T3 2x6 SP 2400f-2.0E:
Bot chord 2x8 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[3]	3X6	S		4.75	[4]	4X4	1.25	R	1.25
[5]	3X4	2.25	L	1.25	[9]	4X6	2.50	R	4.75
[21]	4X6	2.50	L	4.75	[25]	3X4	2.25	R	1.25
[26]	4X4	2.75	R	1.25	[29]	3X6	S		4.75

Loading

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IBC-09 section 1607.

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Attic room loading from 9-2-8 to 22-8-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Truss designed for unbalanced snow loads.

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

FOR REPAIR INFORMATION SEE PAGE 2.

NORTH CAROLINA PROFESSIONAL SEAL 038943 ENGINEER WILLIAM H. KRICK

Engineering Services provided by ABCD Engineering PLLC, NC COA #0838

12/12/2016

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ALPINE AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 116437 1161 Hollies Pines Rd. **Truss Label:** A2 REPAIR #1	Ply: 1 Qty: 20	SEQN: 1623 / T13 ATIC FROM: Page 2 of 2	Cust: R5227 JRef: 1VWJ52270001 DrwNo: 347.16.0921.34200 JB / WHK 12/12/16

This truss is repaired for 5/8" drilled holes in bottom chord in (3) locations as shown.

Repair(s) must comply with Alpine designs & specifications

Shore Truss and any supported spans in proper position as repair is being made.

Hole #1 15-2-0 from left end of truss
Hole #2 16-11-0 from left end of truss
Hole #3 19-1-0 from left end of truss

(a) (1) 2X8X8-0-0 SP #1 scab: attach to one face of truss with 10d box (0.128"X3.0") nails @ 4" OC without splitting lumber. Matching 5/8" drilled holes may be drilled through scab

Engineering Services provided by ABCD Engineering PLLC, NC COA #0838

12/12/2016

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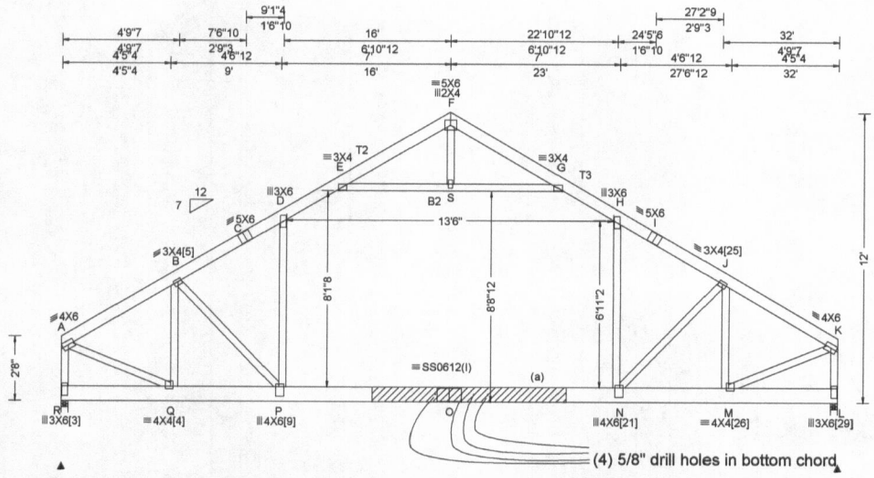
ALPINE
AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 116437 1161 Hollies Pines Rd. **Truss Label:** A2 REPAIR #2	Ply: 1 Qty: 20	SEQN: 1625 / T14 ATIC FROM: Page 1 of 2	Cust: R5227 JRef: 1VWJ52270001 DrwNo: 347.16.0951.19163 JB / WHK 12/12/16



Loading Criteria (psf)

TCLL:	20.00
TCDL:	10.00
BCLL:	0.00
BCDL:	10.00
Des Ld:	40.00
NCBCLL:	10.00
Soffit:	2.00

Load Duration: 1.15
Spacing: 24.0 "

Wind Criteria
Wind Std: ASCE 7-05
Speed: 120 mph
Enclosure: Closed
Category: II
EXP: B
Mean Height: 15.46 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.20 ft
Loc. from endwall: Any
I: 1.0 GCpi: 0.18
Wind Duration: 1.33

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: - CAT: -
Pf: 20.0 Ce: -
Lu: - Cs: -
Snow Duration: -

Code / Misc Criteria
Bldg Code: IBC 2009
TPI Std: 2007
Rep Factors Used: Yes
FT/RT:20(0)/0(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.137	N	999	240
VERT(TL): 0.435	N	882	180
HORZ(LL): 0.091	D	-	-
HORZ(TL): 0.289	D	-	-

Creep Factor: 1.5
Max TC CSI: 0.753
Max BC CSI: 0.586
Max Web CSI: 0.787

VIEW Ver: 16.02.00.0929.14

▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
R	1982	/ 201	/ 404	/ -	/ 232	/ 3.5
L	1982	/ 201	/ 404	/ -	/ -	/ 3.5

Wind reactions based on MWFRS
R Min Brg Width Req = 1.6
L Min Brg Width Req = 1.6
Bearings R & L are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	508	- 2034	F - G	188	- 377
B - C	604	- 2590	G - H	599	- 2034
C - D	612	- 2513	H - I	612	- 2513
D - E	599	- 2034	I - J	604	- 2590
E - F	188	- 377	J - K	508	- 2034

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1768	- 389	O - N	2060	- 318
P - O	2060	- 318	N - M	1768	- 389

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - R	476	- 1877	S - G	570	- 2042
A - Q	1901	- 419	H - N	1015	- 53
Q - B	186	- 1113	N - J	601	- 207
B - P	601	- 206	J - M	186	- 1113
P - D	1015	- 53	M - K	1901	- 419
E - S	570	- 2042	K - L	476	- 1877

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x6 SP #2
:T2, T3 2x6 SP 2400f-2.0E:
Bot chord 2x8 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Plating Notes

(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[3]	3X6	S		4.75	[4]	4X4	1.25	R	1.25
[5]	3X4	2.25	L	1.25	[9]	4X6	2.50	R	4.75
[21]	4X6	2.50	L	4.75	[25]	3X4	2.25	R	1.25
[26]	4X4	2.75	R	1.25	[29]	3X6	S		4.75

Loading

Bottom chord checked for 10.00 psf non-concurrent bottom chord live load applied per IBC-09 section 1607.

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Attic room loading from 9-2-8 to 22-8-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Truss designed for unbalanced snow loads.

Purlins

Collar-tie braced with continuous lateral bracing at 24" oc. or rigid ceiling.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

FOR REPAIR INFORMATION SEE PAGE 2.

NORTH CAROLINA PROFESSIONAL SEAL 038943 ENGINEER WILLIAM H. KRICK

Engineering Services provided by ABCD Engineering PLLC, NC COA #0838

12/12/2016

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ALPINE AN ITW COMPANY
2400 Lake Orange Dr.
Suite 150
Orlando FL, 32837

Job Number: 116437 1161 Hollies Pines Rd. **Truss Label:** A2 REPAIR #2	Ply: 1 Qty: 20	SEQN: 1625 / T14 ATIC FROM: Page 2 of 2	Cust: R5227 JRef: 1VWJ52270001 DrwNo: 347.16.0951.19163 JB / WHK 12/12/16

This truss is repaired for 5/8" drilled holes in bottom chord in (4) locations as shown.

Repair(s) must comply with Alpine designs & specifications

Shore Truss and any supported spans in proper position as repair is being made.

Hole #1 15-5-0 from left end of truss
Hole #2 16-6-0 from left end of truss
Hole #3 17-0-0 from left end of truss
Hole #4 17-7-0 from left end of truss

(a) (1) 2X8X8-0-0 SP #1 scab: attach to one face of truss with 10d box (0.128"X3.0") nails @ 4" OC without splitting lumber. Matching 1" drilled holes may be drilled through scab

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12/12/2016

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ALPINE
AN ITW COMPANY
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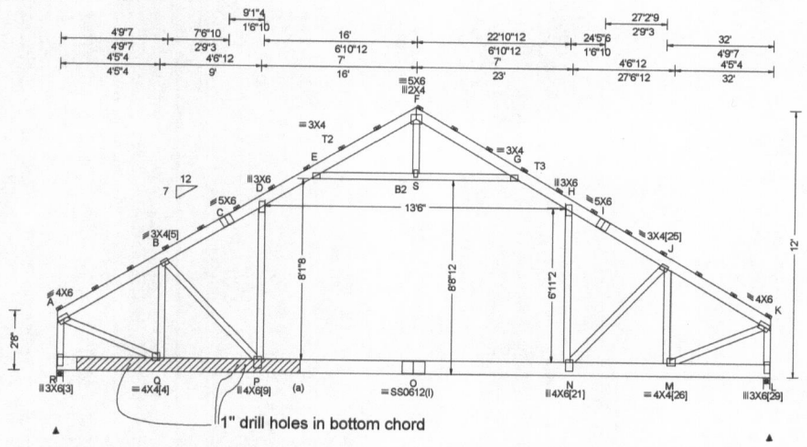
Suite 150
Orlando FL, 32837

Job Number: 116437 1161 Hollies Pines Rd. **Truss Label:** A2-2 REPAIR	Ply: 2 Qty: 2	SEQN: 1627 / T15 ATIC FROM: Page 1 of 2	Cust: R5227 JRef: 1VWJ52270001 DrwNo: 347.16.0914.09593 JB / WHK 12/12/16

2 Complete Trusses Required



Loading Criteria (psf)
TCLL: 20.00
TCDL: 10.00
BCLL: 0.00
BCDL: 10.00
Des Ld: 40.00
NCBCLL: 0.00
Soffit: 2.00
Load Duration: 1.15
Spacing: 48.0 "

Wind Criteria
Wind Std: ASCE 7-05
Speed: 120 mph
Enclosure: Closed
Category: II
EXP: B
Mean Height: 15.46 ft
TCDL: 5.0 psf
BCDL: 5.0 psf
MWFRS Parallel Dist: 0 to h/2
C&C Dist a: 3.20 ft
Loc. from endwall: Any
I: 1.0 GCpi: 0.18
Wind Duration: 1.33

Snow Criteria (Pg,Pf in PSF)
Pg: 20.0 Ct: - CAT: -
Pf: 20.0 Ce: -
Lu: - Cs: -
Snow Duration: -

Code / Misc Criteria
Bldg Code: IBC 2009
TPI Std: 2007
Rep Factors Used: No
FT/RT:20(0)/0(0)
Plate Type(s):
WAVE, 18SS

Defl/CSI Criteria

PP Deflection in	loc	L/defl	L/#
VERT(LL): 0.137	N	999	240
VERT(TL): 0.435	N	882	180
HORZ(LL): 0.091	D	-	-
HORZ(TL): 0.289	D	-	-

Creep Factor: 1.5
Max TC CSI: 0.902
Max BC CSI: 0.661
Max Web CSI: 0.787

VIEW Ver: 16.02.00.0929.14

▲ Maximum Reactions (lbs)

Loc	R	/ U	/ Rw	/ Rh	/ RL	/ W
R	3964	/ 402	/ 808	/ -	/ 465	/ 3.5
L	3964	/ 402	/ 808	/ -	/ -	/ 3.5

Wind reactions based on MWFRS
R Min Brg Width Req = 1.6
L Min Brg Width Req = 1.6
Bearings R & L are a rigid surface.

Members not listed have forces less than 375#

Maximum Top Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
A - B	508	- 2034	F - G	188	- 377
B - C	604	- 2590	G - H	599	- 2034
C - D	612	- 2513	H - I	612	- 2513
D - E	599	- 2034	I - J	604	- 2590
E - F	188	- 377	J - K	508	- 2034

Maximum Bot Chord Forces Per Ply (lbs)

Chords	Tens.	Comp.	Chords	Tens.	Comp.
Q - P	1768	- 389	O - N	2060	- 318
P - O	2060	- 318	N - M	1768	- 389

Maximum Web Forces Per Ply (lbs)

Webs	Tens.	Comp.	Webs	Tens.	Comp.
A - R	476	- 1877	S - G	570	- 2042
A - Q	1901	- 419	H - N	1015	- 53
Q - B	186	- 1113	N - J	601	- 207
B - P	601	- 206	J - M	186	- 1113
P - D	1015	- 53	M - K	1901	- 419
E - S	570	- 2042	K - L	476	- 1877

Lumber

Value Set: 13B (Effective 6/1/2013)

Top chord 2x6 SP #2
:T2, T3 2x6 SP 2400f-2.0E:
Bot chord 2x8 SP 2400f-2.0E :B2 2x4 SP #2:
Webs 2x4 SP #3

Lumber value set "13B" uses design values approved 1/30/2013 by ALSC

Nailnote

Nail Schedule:0.128"x3", min. nails
Top Chord: 1 Row @ 8.00" o.c.
Bot Chord: 1 Row @12.00" o.c.
Webs : 1 Row @ 4" o.c.
Use equal spacing between rows and stagger nails in each row to avoid splitting.

Plating Notes

(l) - plates so marked were sized using 0% Fabrication Tolerance, 0 degrees Rotational Tolerance, and/or zero Positioning Tolerance.

Plate Shift Table

JT No	Plate Size	Lateral Shift		Chord Bite	JT No	Plate Size	Lateral Shift		Chord Bite
[3]	3X6	S		4.75	[4]	4X4	1.25	R	1.25
[5]	3X4	2.25	L	1.25	[9]	4X6	2.50	R	4.75
[21]	4X6	2.50	L	4.75	[25]	3X4	2.25	R	1.25
[26]	4X4	2.75	R	1.25	[29]	3X6	S		4.75

Loading

Live loads applied in combination per ASCE 7 sec. 2.4.1 use 0.75 factor for multiple live loads.

Attic room loading from 9-2-8 to 22-8-8: Live Load: 40 PSF. Dead Load: 10 PSF Ceiling: 10 PSF, Kneewalls: 10 PSF

Truss designed for unbalanced snow loads.

Purlins

In lieu of structural panels use purlins to brace TC @ 24" oc.

Collar-tie braced with continuous lateral bracing at 24" oc.

Wind

Wind loads based on MWFRS with additional C&C member design.

End verticals not exposed to wind pressure.

NORTH CAROLINA PROFESSIONAL SEAL 038943 ENGINEER WILLIAM H. KRICK

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12/12/2016

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Job Number: 116437 1161 Hollies Pines Rd. **Truss Label:** A2-2 REPAIR	Ply: 2 Qty: 2	SEQN: 1627 / T15 ATIC FROM: Page 2 of 2	Cust: R5227 JRef: 1VWJ52270001 DrwNo: 347.16.0914.09593 JB / WHK 12/12/16

This truss is repaired for 1" drilled holes centered in the wide face of bottom chord in (3) locations as shown.

Repair(s) must comply with Alpine designs & specifications

Shore Truss and any supported spans in proper position as repair is being made.

Hole #1 3-3-0 from left end of truss
Hole #2 8-1-0 from left end of truss
Hole #3 8-5-0 from left end of truss

(a) (1) 2X8X10-0-0 SP #1 scab: attach to one face of truss with 10d box (0.128"X3.0") nails @ 4" OC without splitting lumber. Matching 1" drilled holes may be drilled through scab

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