

Client:

Caviness & Cates

Project:

Address:

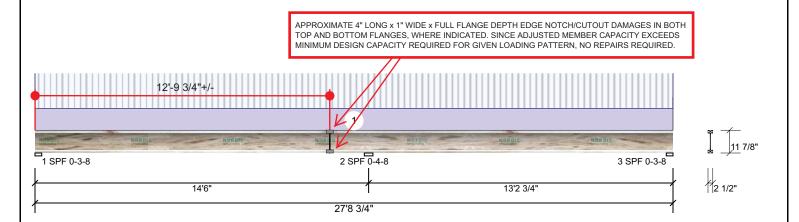
345 Timber Skip Drive Spring Lake, NC

Date: 12/14/2023 Input by: Anthony Williams

Job Name: 1884 Plan Project #: J0723-3479

#### 11.875" - PASSED **FJ-27** NI-40x

Level: Level



Member Information					Reactions UNPATTERNED lb (Uplift)						
Type:	Joist	Application:	Floor	Brg	Direction	Live		Dead	Snow	Wind	Const
Spacing:	19.2" o.c.	Design Method:	ASD	1	Vertical	373		140	0	0	0
Moisture Condition:	: Dry	Building Code:	IRC 2018	2	Vertical	1079		405	0	0	0
Deflection LL:	480	Load Sharing:	No	3	Vertical	323		121	0	0	0
Deflection TL:	360	Deck:	23/32 APA Rated Sturd-	-							
Importance:	Normal - II		I-FloorOSB Nailed and Glued								
Temperature:	Temp <= 100°F	Vibration:	OK	Pos	rings						
		Vibration Methodology:	CCMC - CSAO86-19	_	aring Length	Dir.	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
		Vibration Span:	17-11-14 (79.33%)	1 -	SPF 3.500"	Vert	39%	139 / 415	554	L_	D+L
		Vibration Span:	17-11-14 (72.27%)	2 -	SPF 4.500"	Vert	45%	406 / 1081	1487	LL	D+L
Analysis Result	s	•		3 -	SPF 3.500"	Vert	35%	121 / 383	504	_L	D+L
Analysis Act	ual Location	Allowed Capac	ity Comb. Case	Loca	ation Analy	/sis					

•							_
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case	L
Neg Moment	-1953 ft-lb	14'6"	3760 ft-lb	0.519 (52%)	D+L	LL	Г
Unbraced	-1953 ft-lb	14'6"	1956 ft-lb	0.998 (100%)	D+L	LL	
Pos Moment	1620 ft-lb	6'3 9/16"	3760 ft-lb	0.431 (43%)	D+L	L_	
Shear	765 lb	14'6"	1480 lb	0.517 (52%)	D+L	LL	
LL Defl inch	0.118 (L/1457)	7' 5/8"	0.357 (L/480)	0.329 (33%)	L	L_	H
TL Defl inch	0.151 (L/1134)	6'11 1/2"	0.476 (L/360)	0.317 (32%)	D+L	L_	
LL Bare Defl	0.139 (L/1235)	7' 3/8"	0.476 (L/360)	0.292 (29%)	L	40 PSF L	

	.,				
Analysis Type	Location	Max Value	Ld. Comb.	Ld. Case	
Neg Moment	12'9 3/4"	-788 ft-lb	D+L	LL	
Shear	12'9 3/4"	616 lb	D+L	LL	
Down Defl	12'9 3/4"	0.047	D+L	L_	
Up Defl	12'9 3/4"	0.006	D+L	L	

# **Design Notes**

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.

2 Bottom flange must be laterally braced at a maximum of 5'2" o.c.

ı	ID	Load Type	Location Trib Width	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments

THE CARO Uniform 1-7-3 15 PSF 40 PSF

This professional Engineer's Seal on this calculation indicates the suitability of Calculated Structured Designs (CSD) analysis for members, loads, and conditions shown, which are specifically for gravity loads only. The customer has determined the design loads and conditions. I have not been retained as the Engineer of Record, so this Professional Engineer's Seal should no be construed as such. Applicability of structural members for the completed structure shall be the sole responsibility of the Building Designer or Contractor. 14-Dec-23

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### Notes

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

# **Engineered Wood Products**

Dry service conditions, unless noted otherwise
 No treatment with fire-retardant or other strength-reducing chemicals.

## Handling & Installation

Handling & Installation

1. Engineered wood products must not be cut or drilled.
Damaged products shall not be used.

2. Refer to the latest version of the installation guide for construction details, hole specifications, multiplemember connections, and handling guidelines.

3. Provide lateral support at bearing points to prevent lateral displacement and rotation.

4. For flat roof, provide proper drainage to prevent ponding.

ponding.

5. Design assumes top flange to be laterally restrained

by attached sheathing or as specified in engineering

This design is valid until 6/28/2026

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