

Client:

Project:

Address: 110 MAPLE WOOD DR. LOT 514 SANFORD N.C. 27332

Date: 7/31/2020

Input by: THORN COLLINS

Job Name: SOUTH SCAN (110 MAPLEWOOD)

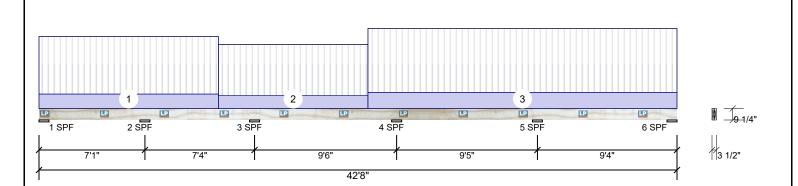
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Project #:

DBM₁ LP-LVL 2900Fb-2.0E 1.750" X 9.250"

SOUTH SCAN

Level: Level 2-Ply - PASSED



Member Information					Reactions UNPATTERNED lb (Uplift)						
Type:	Girder	Application:	Floor	Brg	Live	Dead	Snow	Wind	Const		
Plies:	2	Design Method:	ASD	1	1140	315	0	0	0		
Moisture Condition	on: Dry	Building Code:	IBC/IRC 2015	2	2658	732	0	0	0		
Deflection LL:	480	Load Sharing:	No	3	2750	767	0	0	0		
Deflection TL:	240	Deck:	Not Checked	4	3557	978	0	0	0		
Importance:	Normal			5	4077	1113	0	0	0		
Temperature:	Temp <= 100°F			6	1604	438	0	0	0		
Bearings											
	Bearing Length Cap. React D/L lb Total Ld. Case Ld. Comb.							se Ld. Comb.			

1-SPF 8.000"

2 - SPF 8.000"

3 - SPF 8.000"

4 - SPF 8.000"

5 - SPF 8.000"

6 - SPF 8.000"

14%

32%

34%

42%

46%

19%

313 / 1316

736 / 3078

765 / 3291

975 / 4031

1118 / 4356

436 / 1809

1629 L_L_L

3814 LL_L_

4055 _LL_L

5006 L_LL_

5473 _L_LL

2245 L_L_L

D+L

D+L

D+I

D+L

D+I

D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-4772 ft-lb	33'4"	12416 ft-lb	0.384 (38%)	D+L	_L_LL
Pos Moment	3685 ft-lb	38'3 1/8"	12416 ft-lb	0.297 (30%)	D+L	L_L_L
Shear	2377 lb	34'1 1/4"	6151 lb	0.386 (39%)	D+L	_L_LL
LL Defl inch	0.100 (L/1048)	37'10 5/16"	0.218 (L/480)	0.460 (46%)	L	L_L_L
TL Defl inch	0.118 (L/884)	37'10 15/16"	0.436 (L/240)	0.270 (27%)	D+L	L_L_L

Design Notes

- 1 Provide lateral support to prevent rotation at end bearings and at interior bearings when required by code for seismic design.
- 2 Dead Load Deflection: Instant = 0.019", Long Term = 0.028"
- 3 Girders are designed to be supported on the bottom edge only.

4 Multiple	e plies must be fastened to	ogether as per manuf	•	S.						
5 Top loads must be supported equally by all plies. 6 Top braced at bearings.										
7 Bottom braced at bearings.										
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Part. Uniform	0-0-0 to 12-0-0		Тор	90 PLF	360 PLF	0 PLF	0 PLF	0 PLF	FLOOR LOAD AT 40 LIVE AND 10 DEAD WITH 9' TRIB
2	Part. Uniform	12-0-0 to 22-0-0		Тор	80 PLF	320 PLF	0 PLF	0 PLF	0 PLF	FLOOR LOAD AT 40 LIVE AND 10 DEAD WITH 8' TRIB
3	Part. Uniform	22-0-0 to 42-8-0		Тор	100 PLF	400 PLF	0 PLF	0 PLF	0 PLF	FLOOR LOAD AT 40 LIVE AND 10 DEAD WITH 10' TRIB

9 PLF

This design is valid until 10/31/2021

This component analysis is based on the loads, geometry and other conditions as entered by the user and listed in this report. The user is responsible to ensure the accuracy of the input and the applicability to the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed.

Self Weight

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Manufacturer Info

Louisiana-Pacific Corp 414 Union Street, Suite 2000 Nashville, TN 37219 (888) 820-0325

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