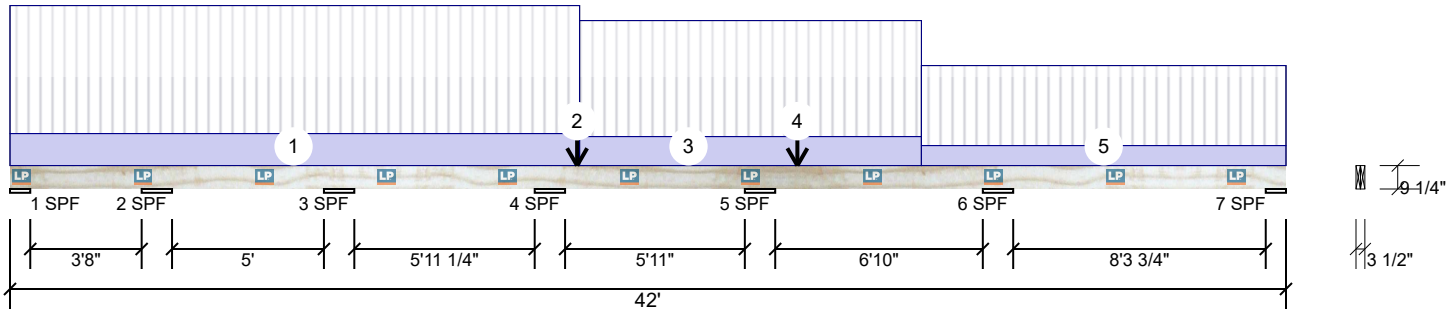
Client:		Date:	8/7/2020
Project:		Input by:	THORN COLLINS
Address:		Job Name:	
		Project #:	

DBM1 LP-LVL 2900Fb-2.0E 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Floor
Plies:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal		
Temperature:	Temp <= 100°F		

Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind	Const
1	1374	363	0	0	0
2	3520	933	0	0	0
3	4171	1096	0	0	0
4	5639	1592	0	0	0
5	5132	1432	0	0	0
6	4252	1160	0	0	0
7	1627	444	0	0	0

Bearings

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	8.000"	17%	358 / 1724	2082	L_L_L_	D+L
2 - SPF	12.000"	28%	942 / 4107	5049	LL_L_L	D+L
3 - SPF	12.000"	33%	1089 / 4860	5949	_LL_L_	D+L
4 - SPF	12.000"	45%	1596 / 6469	8066	L_LL_L	D+L
5 - SPF	12.000"	41%	1425 / 5950	7376	_L_LL_	D+L
6 - SPF	12.000"	32%	1166 / 4576	5743	L_L_LL	D+L
7 - SPF	8.000"	19%	442 / 1807	2249	_L_L_L	D+L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Neg Moment	-4890 ft-lb	32'6 1/4"	12416 ft-lb	0.394 (39%)	D+L	L_L_LL
Pos Moment	3701 ft-lb	37'7"	12416 ft-lb	0.298 (30%)	D+L	_L_L_L
Shear	4188 lb	18'6 1/2"	6151 lb	0.681 (68%)	D+L	L_LL_L
LL Defl inch	0.102 (L/1042)	37'1 13/16"	0.222 (L/480)	0.460 (46%)	L	_L_L_L
TL Defl inch	0.122 (L/874)	37'2 7/16"	0.444 (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 = 0.020", Long Term = 0.030"
3 Girders are designed to be supported on the bottom edge only.
4 Multiple plies must be fastened together as per manufacturer's details.
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 18-9-0		Top	160 PLF	640 PLF	0 PLF	0 PLF	0 PLF	FLOOR LOAD AT 40 LIVE AND 10 DEAD WITH 16' TRIB
2	Point	18-8-0		Top	501 lb	1485 lb	0 lb	0 lb	0 lb	POINT LOAD FROM FBM1 ABOVE
	Bearing Length	0-3-8								

Continued on page 2...

Notes

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.

This design is valid until 10/31/2021

Manufacturer Info

Louisiana-Pacific Corp
414 Union Street, Suite 2000
Nashville, TN 37219
(888) 820-0325
www.lpcorp.com
APA: PR-L280, ICC-ES: ESR-2403, LADBS: RR-25783, Florida: FL15228

CAROLINA STRUCTURAL SYSTEMS, NORTH CAROLINA
USA
27356

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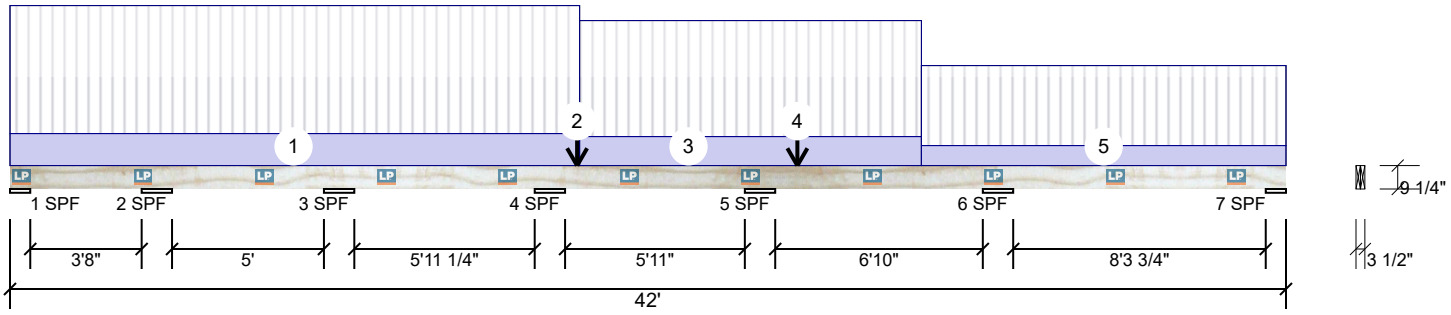
Level: Level



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ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
3	Part. Uniform	18-9-0 to 30-0-0		Top	145 PLF	580 PLF	0 PLF	0 PLF	0 PLF	FLOOR LOAD AT 40 LIVE AND 10 DEAD WITH 14'6" TRIB
4	Point	25-11-0		Top	298 lb	905 lb	0 lb	0 lb	0 lb	POINT LOAD FROM FBM2 ABOVE
	Bearing Length	0-3-8								
5	Part. Uniform	30-0-0 to 42-0-0		Top	100 PLF	400 PLF	0 PLF	0 PLF	0 PLF	FLOOR LOAD AT 40 LIVE AND 10 DEAD WITH 10' TRIB
	Self Weight				9 PLF					

Notes

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