2	Client: DRB Homes NC LLC Project: 120 Farm at Neills Creek	Date: 10/13/2022 Page 1 of 1 Input by: RKW
isDesign	Address 76 Winding Creek Drive	Job Name: 22060003-Calc-(J16 I-Joist)-Notched
	Lillington, N.C. 57546 Harnett County	Project #: 22060003
J16 PJI-40 14.	000" - PASSED	Level: Level
		Ticket: EACOM1022-183
<	Required repair: Install (1)2x4x4'-0" minimu (one face only) with constr box nails or approved equ x 3" long) at 4" o.c. Scab be installed on either the r of the flange.	uction adhesive and 10d valent (0.128" diameter shall be unnotched, but may
° °		1'2"
1 SPF		2 SPF
<u>/</u>	15'5 5/16"	2 1/2"
<u>/</u>	15'5 5/16"	
I.		
Mambarlafarratiar		
Member Information Type: Joist	Application: Floor	Reactions UNPATTERNED Ib (Uplift) Brg Direction Live Dead Snow Wind Const
Spacing: 19.2" o.c.	Design Method: ASD	1 Vertical 494 124 0 0 0
Moisture Condition: Dry	Building Code: IBC/IRC 2015	2 Vertical 494 124 0 0 0
Deflection LL: 480	Load Sharing: No	
Deflection TL: 240 Importance: Normal - II	Deck: Not Checked	
Temperature: Temp <= 100°F		
·····		Bearings
		Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb.
		1 - SPF 3.500" Vert 41% 124 / 494 618 L D+L
Analysis Results	I	2 - SPF 3.500" Vert 41% 124 / 494 618 L D+L
	ocation Allowed Capacity Comb.	Case Hole Analysis
,	7'8 5/8" 4270 ft-lb 0.526 (53%) D+L	L Hole Type Location Size Ratio Act Shr. All. Shr.
	7'8 5/8" 2266 ft-lb 0.991 (99%) D+L	Round H1'4" 1"
Shear 599 lb	2 3/4" 1815 lb 0.330 (33%) D+L	L Round H1'7" 1"
LL Defl inch 0.174 (L/1032) 7'8	3 11/16" 0.375 (L/480) 0.465 (47%) L	Horizontal location H = Horiz to center
TL Defl inch 0.218 (L/825) 7'8	8 11/16" 0.749 (L/240) 0.291 (29%) D+L	L 3/4" maximum notch
Design Notes		
may also be required at the interio	vary and flanges must not be cut.Effective hole dia	
4 Bottom flange must be laterally bra		
ID Load Type Trib Width Uniform 1-7-3	Dead 0.9 Live 1 10 PSF 40 PSF	DETAIL A (not to scale) Repair is required as shown.
Notes 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. Lumber	Handling & Installation lateral di 1. Joist flanges must not be cut or drilled 2. Refer to latest copy of the Joist product information details for framing details efffence tables with bulk products details for framing details efffence tables with bulk products the flanges for the second sec	Ateral support at bearing points to avoid proceeding and rotation for the service of the servic
 Dry service conditions, unless noted otherwise IJoist not to be treated with fire retardant or corrosive 	by attached sheathing or as specified in engineering	esign is valid until 11/3/2024