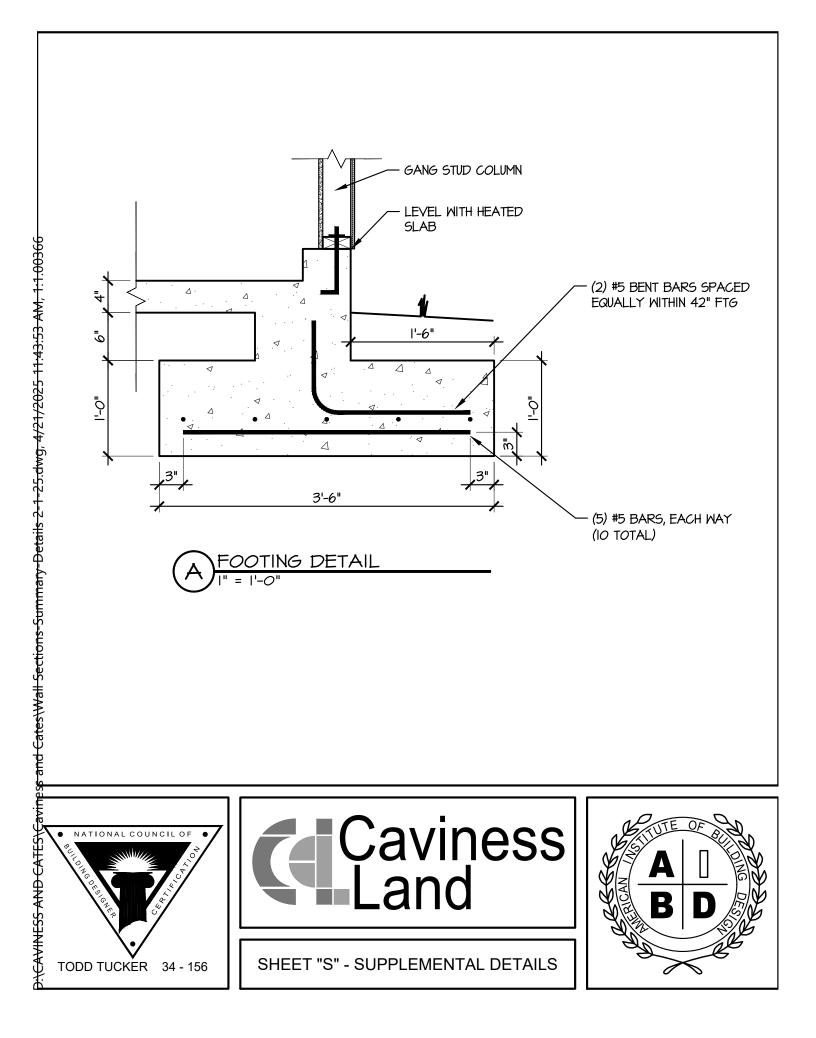
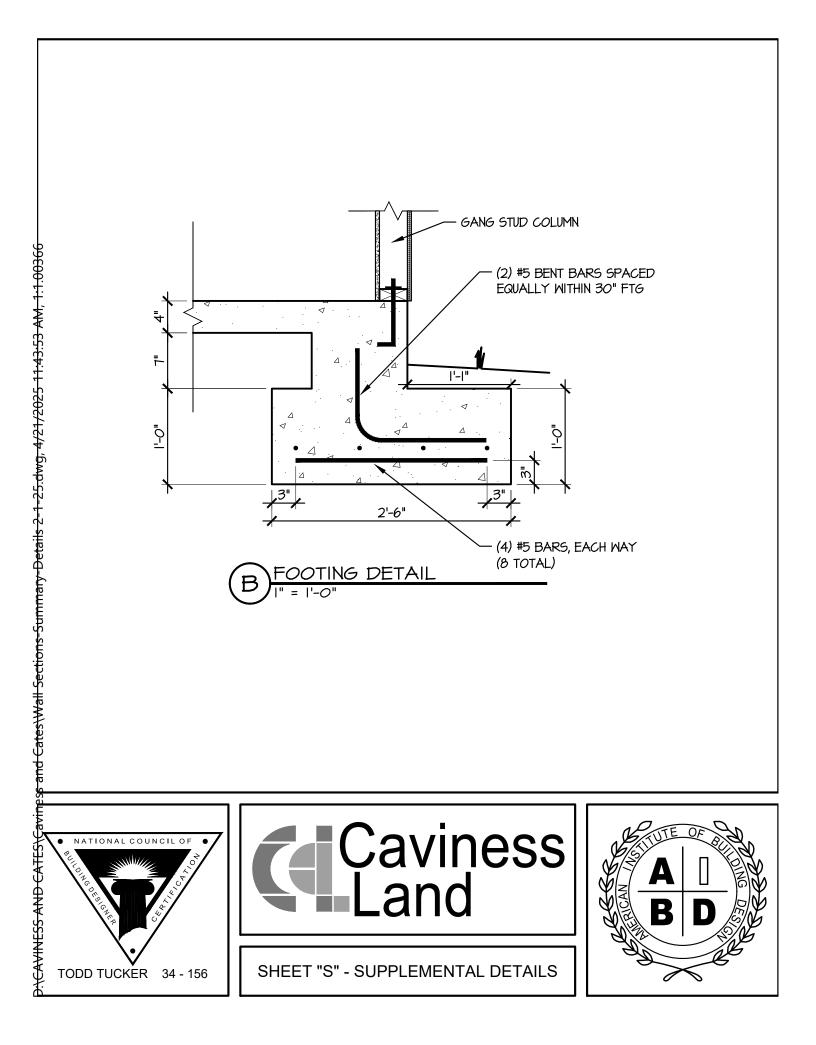


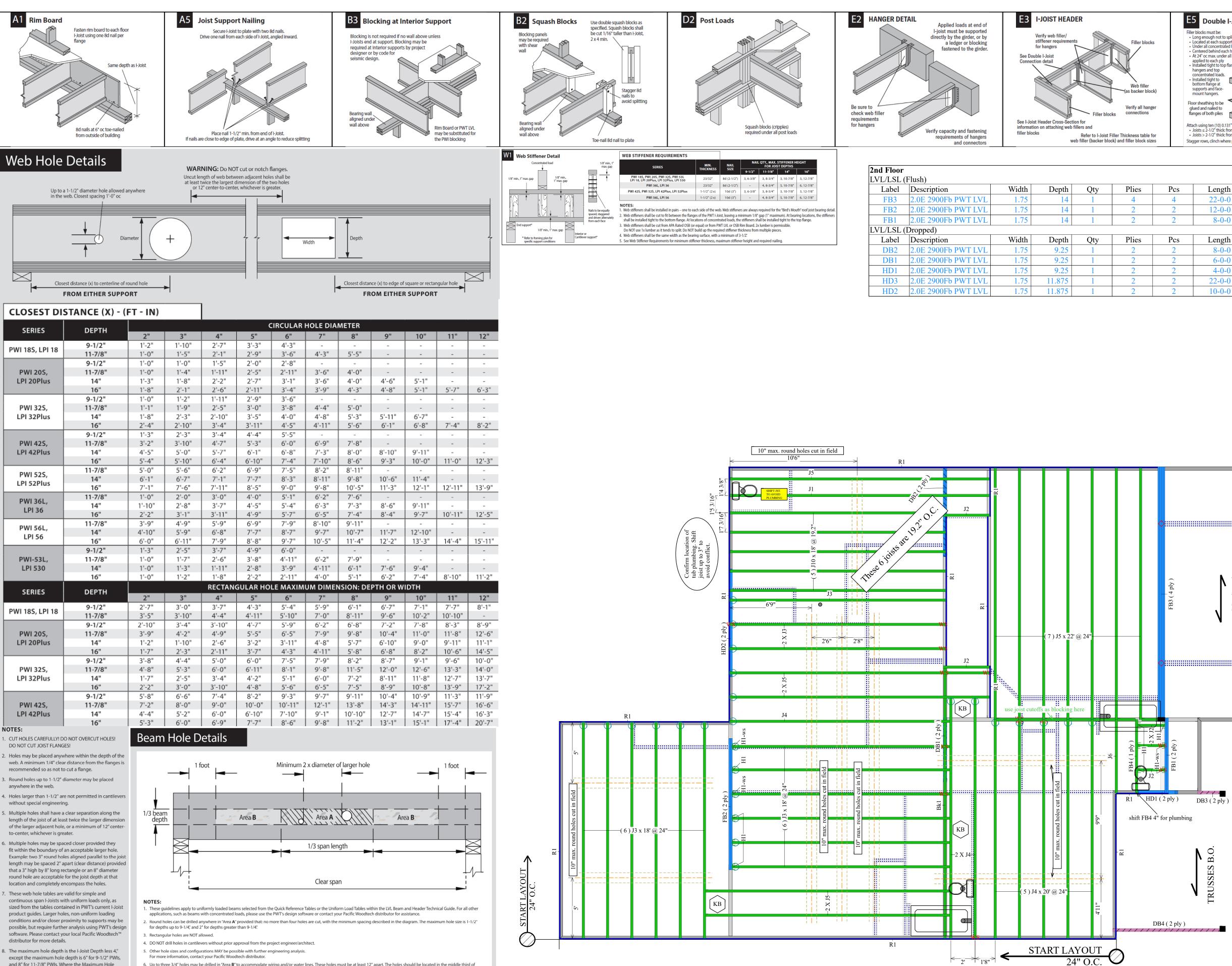
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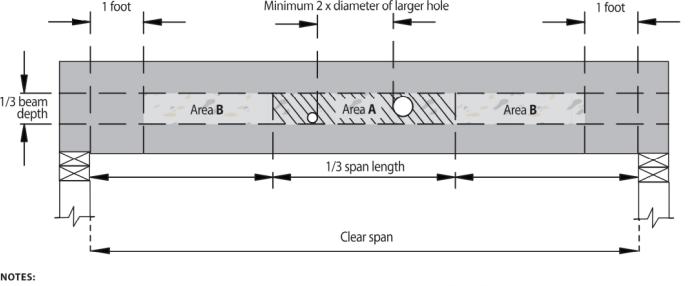




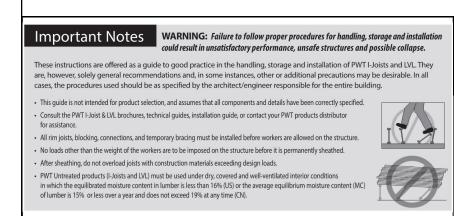


- and 8" for 11-7/8" PWIs. Where the Maximum Hole Dimension exceeds the hole depth, the dimension refers to hole width and the depth of the hole is assumed to be the maximum for that joist depth. The maximum hole width is 18", regardless of I-Joist Depth.

Version 24.60.996 Powered by iStruct™ Dataset: 25010801.1457

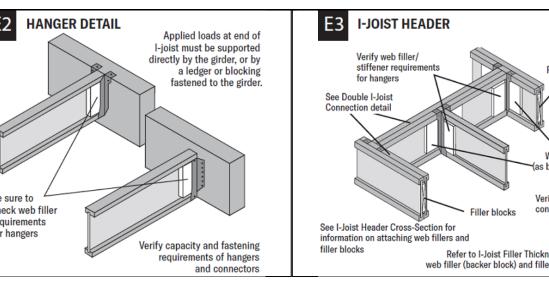


- 6. Up to three 3/4" holes may be drilled in "Area B" to accommodate wiring and/or water lines. These holes must be at least 12" apart. The holes should be located in the middle third of the depth, or a minimum of 3" from the bottom and top of the beam. For beams shallower than 9-1/4," locate holes at mid-depth. 7. Protect plumbing holes from moisture.



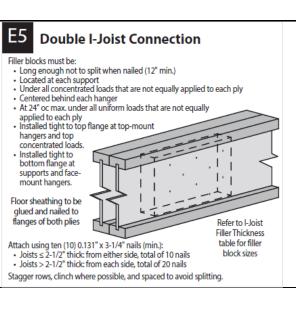
Product Substitution Warning AILURE may result if this product is stituted with other brands or products This analysis is for PACIFIC WOODTECH roducts only. US Lumber will not be held sponsible if other brands are substitute

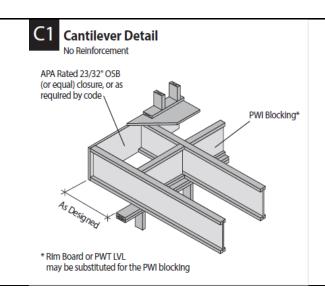
This placement plan is to be used as an installation guide only. It is meant to be used in conjunction with the manufacturers installation guide, the architectural and structural drawings, and not to replace them.



Label	Description	Width	Depth	Qty	Plies	Pcs
FB3	2.0E 2900Fb PWT LVL	1.75	14	1	4	4
FB2	2.0E 2900Fb PWT LVL	1.75	14	1	2	2
FB1	2.0E 2900Fb PWT LVL	1.75	14	1	2	2
VL/LSL ((Dropped)	·	·			
Label	Description	Width	Depth	Qty	Plies	Pcs
DB2	2.0E 2900Fb PWT LVL	1.75	9.25	1	2	2
DB1	2.0E 2900Fb PWT LVL	1.75	9.25	1	2	2
HD1	2.0E 2900Fb PWT LVL	1.75	9.25	1	2	2
HD3	2.0E 2900Fb PWT LVL	1.75	11.875	1	2	2
HD2	2.0E 2900Fb PWT LVL	1.75	11.875	1	2	2

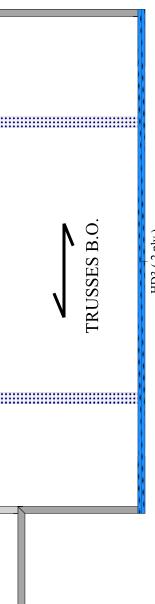
This Material Take Off is provided as an estimate of material needed for the referenced project. It is based on information provided and standard building and construction assumptions. The Take Off is provided without representation or warranty of any kind and is in no way guaranteed to reflect the exact quantity or types of material necessary to complete the project. The customer/builder and/or the architect/engineer are responsible for reviewing and verifying the listed materials based on the way they plan to construct the project. Actual material required to complete the project may be more or less than what is reflected in the Take Off, and any shortages or overages are the sole responsibility of the customer/builder and/or the architect/engineer.





	2nd Floo	or
	I Joist (F	lus
 Length	Label	De
22-0-0	J5	P۱
12-0-0	J1	P۱
 8-0-0	J4	P۱
	J10	P۱
Length	J3	P۱
8-0-0	J6	P۱
6-0-0	J2	P۱
4-0-0	FB4	P۱
22-0-0	Beam By	0
 10-0-0	Label	De
	554	5.0

I Joist (F	lush)							
Label	1 (cription	Width	Depth	Qty	Plies	Pcs	Length
J5	PWI	208	2.5	14			12	22-0-0
J1	PWI	208	2.5	14			1	22-0-0
J4	PWI	20S	2.5	14			8	20-0-0
J10	PWI	20S	2.5	14			5	18-0-0
J3	PWI	20S	2.5	14			15	18-0-0
J6	PWI	20S	2.5	14			1	8-0-0
J2	PWI	20S	2.5	14			5	4-0-0
FB4	PWI	20S	2.5	14			1	8-0-0
Beam By	y Othe	ers (Dropped)						
Label	Desc	cription	Width	Depth	Qty	Plies	Pcs	Length
DB4	[2x]	[0]			1	2	2	10-0-0
DB3	[2x]	[0]			1	2	2	4-0-0
Rim Boa	ird							
Label	Desc	cription	Width	Depth	Qty	Plies	Pcs	Length
R1		o Rim Board 1.125 X 14	1.125	14			16	12-0-0
Blocking	5							
Label	Desc	cription	Width	Depth	Qty	Plies	Pcs	Length
Bk1	PWI	208	2.5	14	LinFt		Varies	20-0-0
Hanger						Е	Beam/Gird	er
Labo	el	Pcs	Descriptio	on			fasteners	
H1		12	IUS2.56/1	$4 \overline{(Min)}$			12 10d	





2ND FLOOR FRAMING

SCALE: 1/4'' = 1'**JOIST LABELING SCHEME:** (QTY) MARK X LENGTH @ O.C. SPACING

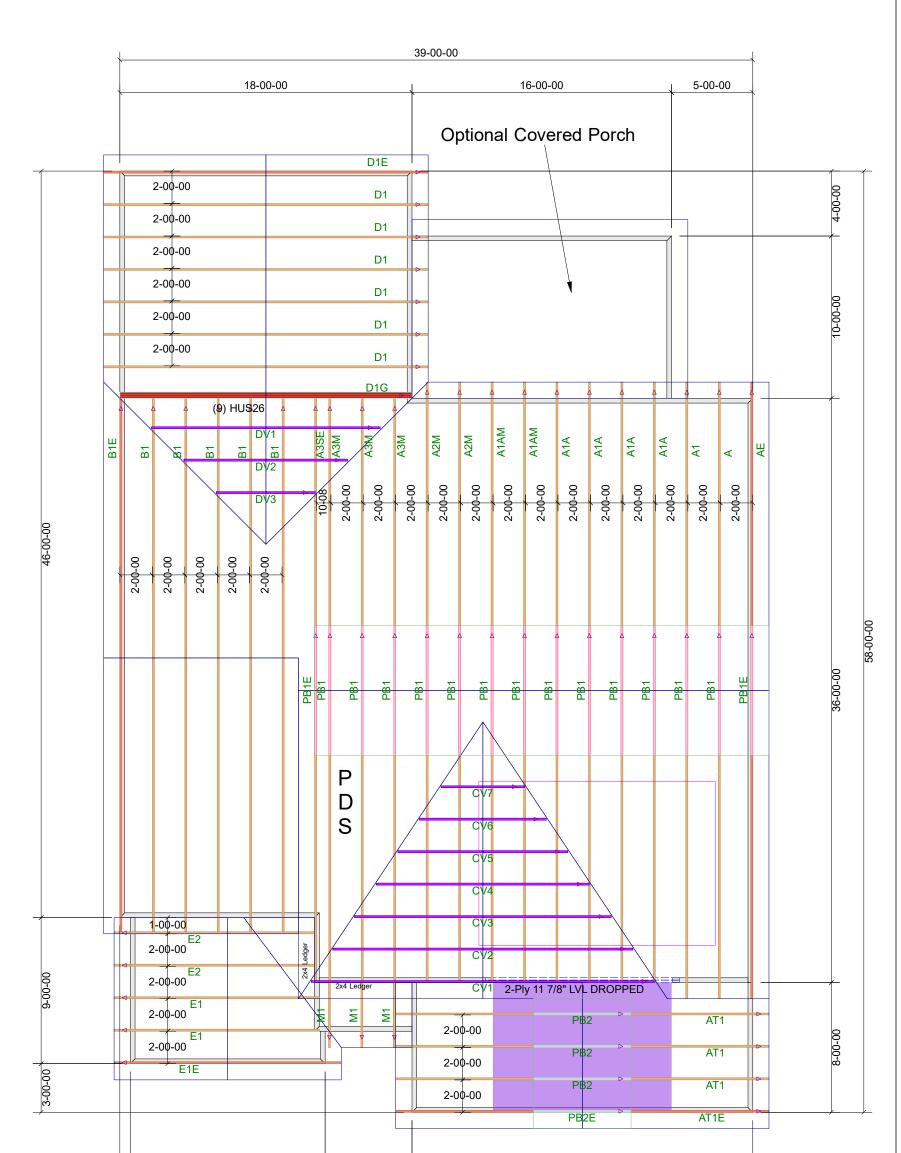
U.S.	LUMBER	2
	Satellite Blvd., Suite 450 Duluth, GA 30097 888-613-5078	
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Dealer	Fayetteville #2307	
Dealer Ado	dress	
620 Belt Ros Fayetteville,		
(910) 867-9	185	
Project 73124		
Created	015	
March 30, 2 Layout Na		
202504-731	24	
Description Caviness La		
CL3034-GR	-CS470	
Designer Will Evans		
Revised		
April 01, 20 nd Floor	25	
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Decking	O 23/32 APA Rated Stu	SB
	I-Fl	oor
astener Legend	Nailed & Glu	ued
WS -WS	Web Stiffener In Hanger Label Denotes Web	
PS	Stiffener Point Load Support (D2 Detail Load From Above)

	I-Floor
Fastener	Nailed & Glued
Legend	
WS	Web Stiffener
-WS	In Hanger Label Denotes Web
	Stiffener
PS	Point Load Support (D2 Detail)
\diamond	Load From Above
	Exterior Bearing Wall
	Interior Bearing Wall
	Non-Bearing Wall
	OSB/LSL Rim (Color Varies)
	PWI 18S/20S I Joist
	PWI 32S I Joist
	PWI 42S/90L I Joist
	Triforce/Open Joist (Color Varies)
++++++++	Dropped Beam
	(Color Varies By Product)
	Flush Beam
	(Color Varies By Product)
	Field Framed Pony Wall
	Column

Installation Guide

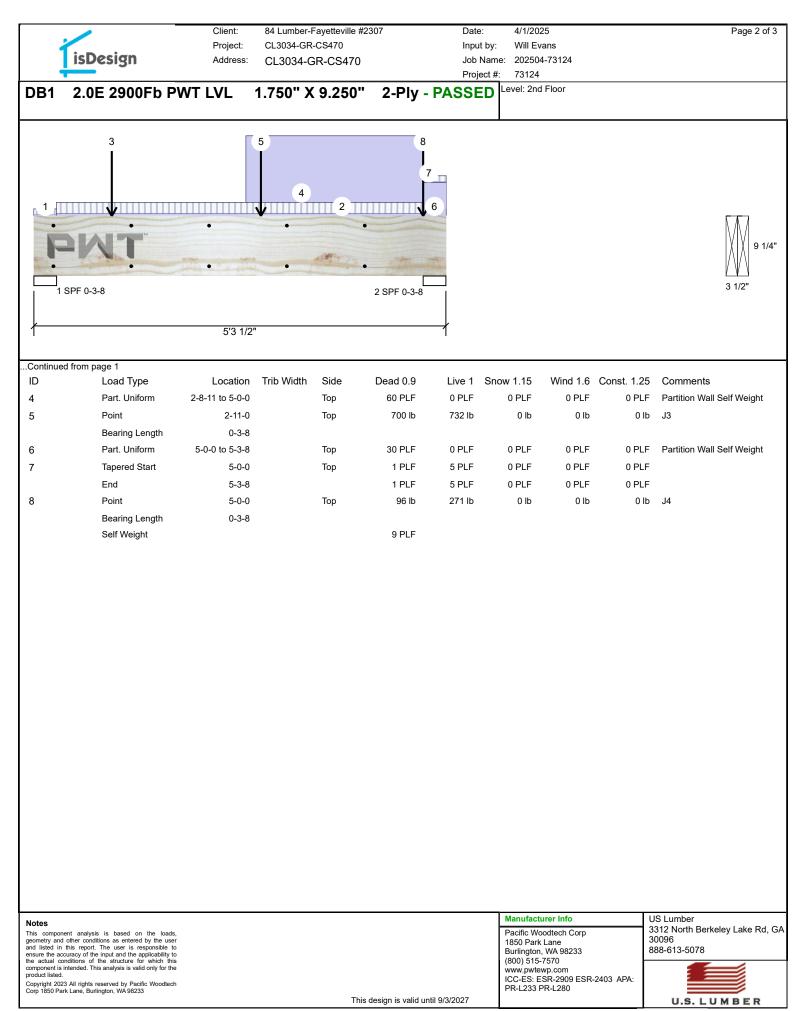
For access to the PWT installation guide, please use the camera function on your mobile device and scan this QR Code or use the web address shown below to gain access to the installation guide.

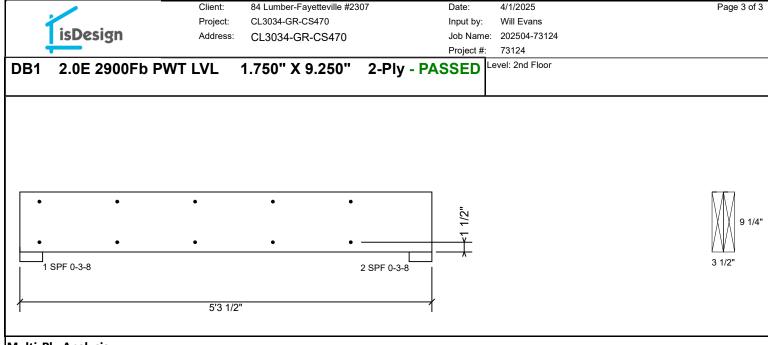
https://pwtewp.com/products/pwi-joist/#features



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General Load	ionip ioo						Bear	ings							
-loor Live:	40 PSF						-	ring Le	ength	Dir.	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Cor
Dead:	10 PSF							SPF 3.	-	Vert	28%	525 / 953	1477		D+L
			<u> </u>					SPF 3.		Vert	28%	655 / 817	1472		D+L
nalysis Res	sults						·`								
Analysis	Actual		Allowed	Capacity	Comb.	Case									
Noment	2166 ft-lb	2'11" 1:	2416 ft-lb	17%	D+L	L									
Shear	1384 lb	1' 3/4" 6	151 lb	22%	D+L	L									
L Defl inch	0.013 (L/4315)	2'9 9/16" 0	.161 (L/360)	8%	L	L									
L Defl inch	0.025 (L/2339) 2	.'10 11/16" 0	.242 (L/240)	10%	D+L	L									
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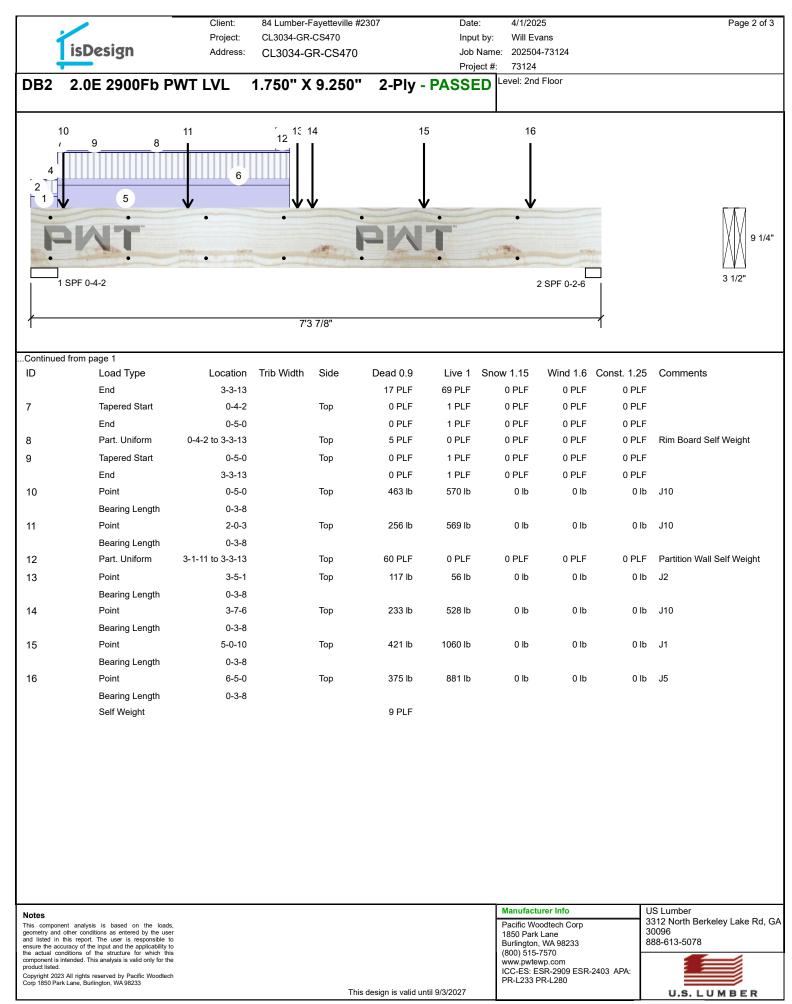


Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

miere possible.		
Capacity	0.0 %	
Load	0.0 PLF	
Yield Limit per Foot	235.2 PLF	
Yield Limit per Fastener	117.6 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination		
Duration Factor	1.00	

Notes		Manufacturer Info	US Lumber
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		Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (200) 615 7570	3312 North Berkeley Lake Rd, GA 30096 888-613-5078
the actual conditions of the structure for which this component is intended. This analysis is valid only for the product listed. Copyright 2023 All rights reserved by Pacific Woodtech Corp 1850 Park Lane, Burlington, WA 98203		(800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280	
	This design is valid until 9/3/2027		U.S. LUMBER

	•		Client:	84 Lumber-l	Fayetteville #2	307	Dat	e:	4/1/2025					Page	1 of 3
Tiel	Design		-	CL3034-GR				ut by:	Will Evar						
	Design		Address:	CL3034-0	GR-CS470			Name: ject #:	202504-7 73124	(3124					
DB2 2.0	0E 2900Fb	PWTI	VI 1	750" X	9.250"	2-Plv	- PASSI		evel: 2nd F	loor					
						,									
10	0	11		- 18 · 12	14		15		16						
í í í í í í í í í í í í í í í í í í í	98														
4			6												
2	5														
-				•										$\overline{\Lambda}$	
						JIA	TH							IXIXI-	9 1/4"
				•	attern .			and all	*in	-				$ VV\rangle$	
	0_4_2								2.0	SPF 0-2-6				3 1/2"	
TOFF	0-4-2								23	SPF 0-2-0					
				71	3 7/8"										
I				1	5110						1				
Member Info	ormation						Reactions	5 PATT	ERNED	lb (Up	lift)				
Type: Plies:	Girder 2		Applicatio		Floor ASD		Brg Direc		Live		ead	Sno			Cons
Moisture Condi			Design M Building		IRC 2021		1 Vertic 2 Vertic		1888 1996	ſ	246 956		0 0	0 0	
Deflection LL:	360		Load Sha		No								°	Ū	
Deflection TL:	240		Deck:		Not Checked										
Importance:	Normal - II	_													
Temperature:	Temp <= 100°	Ϋ́F					Boarings								
General Load Floor Live:	40 PSF						Bearings	ongth	Dir	Can B	act D/I	<u>ь</u> .	Total I.d. C		`omb
Dead:	40 PSF 10 PSF						Bearing I	-	Dir.	•	eact D/L		Total Ld. Ca		,omp
Deau.	10 PSP						1 - SPF 4 2 - SPF 2		Vert Vert	51% 1 84%	1246 / 18 956 / 19		3134 L 2952 L	D+L D+L	
Analysis Res								2.070	Vert	0470	5567 15	50	2002 L	0.5	
	Actual 4837 ft-lb	Location	Allowed 12416 ft-lb	Capacity 39%	Comb. D+L	Case									
Shear	2841 lb	6'4 1/4"		39 <i>%</i> 46%	D+L	1									
LL Defl inch			0.230 (L/360)		I	1									
TL Defl inch			0.345 (L/240)		L D+L	L									
Design Note		0010	0.010(2/210)	01.70	5-2	-	1								
	es port to prevent later	al movemer	nt and rotatior	at the end	bearings.		4								
2 Dead Load [Deflection: Instant =	0.037", Lor	ng Term = 0.0	56".											
	lies using 2 rows of to exceed 6". Clinc			25") at 12" o	o.c. Maximum	end									
	page of calculation			or specified	loads.										
	designed to be supp		-	e only.											
	ust be supported ec laterally braced at		•												
	t be laterally braced	-	-												
ID	Load Type		Location T	rib Width	Side	Dead 0.9	Live 1	Snow	1.15	Wind 1.6	Const	. 1.25	Comments	3	
1	Part. Uniform	0-0-	0 to 0-4-2		Тор	30 PLF	0 PLF	(0 PLF	0 PLF		0 PLF	Partition W	all Self Weig	ht
•	Tapered Start		0-0-0		Тор	9 PLF	34 PLF	(0 PLF	0 PLF		0 PLF			
2	End		0-4-2			9 PLF	34 PLF	(0 PLF	0 PLF		0 PLF			
2		0-0-	0 to 0-4-2		Тор	2 PLF	0 PLF	(0 PLF	0 PLF		0 PLF	Rim Board	Self Weight	
2	Part. Uniform				Тор	60 PLF	0 PLF	(0 PLF	0 PLF		0 PLF	Partition Wa	all Self Weig	ht
	Part. Uniform Part. Uniform	0-4-2	to 3-3-13					,							
4		0-4-2	to 3-3-13 ? 0-4-2		Тор	17 PLF	69 PLF	(0 PLF	0 PLF		0 PLF			
4 5	Part. Uniform Tapered Start	0-4-2			Тор	17 PLF	69 PLF	,	U PLF	UPLF		UPLF			
4 5 6 Continued on pag	Part. Uniform Tapered Start	0-4-2			Тор	17 PLF	69 PLF		1 PLF				JS Lumber		
4 5 6 Continued on page Notes This component analy	Part. Uniform Tapered Start ge 2	ads,			Тор	17 PLF	69 PLF	P	lanufacture Pacific Wood	er Info		L 3	312 North Be	rkeley Lake	Rd, C
4 5 6 Continued on page Notes This component analy	Part. Uniform Tapered Start ge 2	ads,			Тор	17 PLF	69 PLF	N P 1 B	lanufacture Vacific Wood 850 Park La Burlington, W	er Info Itech Corp ane VA 98233		L 3 3		rkeley Lake	Rd, G
4 5 6 Continued on page Notes This component anal geometry and other co and listed in this repo ensure the accuracy of the actual conditions 4	Part. Uniform Tapered Start ge 2	ads, user e to ty to this			Тор	17 PLF	69 PLF	N P 1 B ({	Janufacture Pacific Wood 850 Park La Burlington, V 300) 515-75 ww.pwtewp	er Info Itech Corp ane VA 98233 570 0.com		L 3 3 8	312 North Be 0096	rkeley Lake	Rd, G
4 5 6 Continued on page Notes This component analt geometry and other co and listed in this report ensure the accuracy of the actual conditions component is intended.	Part. Uniform Tapered Start ge 2 visis is based on the lo anditions as entered by the ort. The user is responsible for the input and the applicabil of the structure for which This analysis is valid only for this enalysis is valid only for this enalysis is valid only for the severved by Pacific Wood	ads, user a to this the			Тор	17 PLF	69 PLF	■ 1 8 (§ w	lanufacture Pacific Wood 850 Park La Burlington, W 800) 515-75	er Info Itech Corp ane VA 98233 70 0.com R-2909 ESF		L 3 3 8	312 North Be 0096	rkeley Lake	Rd, G



Version 24.60.996 Powered by iStruct[™] Dataset: 25010801.1457

r	Olivert	04 Lunch an East that ills #004	Deter	4/4/0005	Dava 0 sf 0
	Client:	84 Lumber-Fayetteville #230		4/1/2025	Page 3 of 3
	Project:	CL3034-GR-CS470	Input by:	Will Evans	
isDesign	Address:	CL3034-GR-CS470	Job Name	e: 202504-73124	
			Project #:	73124	
DB2 2.0E 2900F	b PWT LVL	1.750" X 9.250"	2-Ply - PASSED	Level: 2nd Floor	
	~		,		
• •	•	• •	•	•	L. N/N/I
					9 1/4"
					v 1/1/1
• •	•	• •	•	•	<u>t</u> LV
1 SPF 0-4-2				2 SPF 0-2-6	3 1/2"
1011 0-4-2				2 3FF 0-2-0	
<u>/</u>		7'3 7/8"		────	
		101/0		I	
Multi-Ply Analysis					
	our of 16d Ciplion N	Jaila (140,2 25") at 12" a	a Maximum and dista	nee not to averad C" Clin	
	ows of 16d Sinker h	Nalis (. 148x3.25) at 12 (D.C Maximum end dista	nce not to exceed 6". Clin	
where possible.					
Capacity	0.0 %				
_oad	0.0 PLF				
/ield Limit per Foot /ield Limit per Fastener	235.2 PLF 117.6 lb.				
CM	117.0 ID. 1				
Yield Mode	IV				
Edge Distance	1 1/2"				
Vin. End Distance	3"				
_oad Combination					
Duration Factor	1.00				
Nataa			ľ	Manufacturer Info	US Lumber
Notes This component analysis is based on th	he loads,		ŀ	Pacific Woodtech Corp	3312 North Berkeley Lake Rd, GA
geometry and other conditions as entered by and listed in this report. The user is respo	/ the user			1850 Park Lane	30096
ensure the accuracy of the input and the appl the actual conditions of the structure for y	licability to which this			Burlington, WA 98233 (800) 515-7570	888-613-5078
component is intended. This analysis is valid o product listed.	only for the			www.pwtewp.com	
Copyright 2023 All rights reserved by Pacific Corp 1850 Park Lane, Burlington, WA 98233	Woodtech			ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280	
Corp 1850 Park Lane, Burlington, WA 98233		This de	esign is valid until 9/3/2027		U.S. LUMBER
					STOLES IN DEN

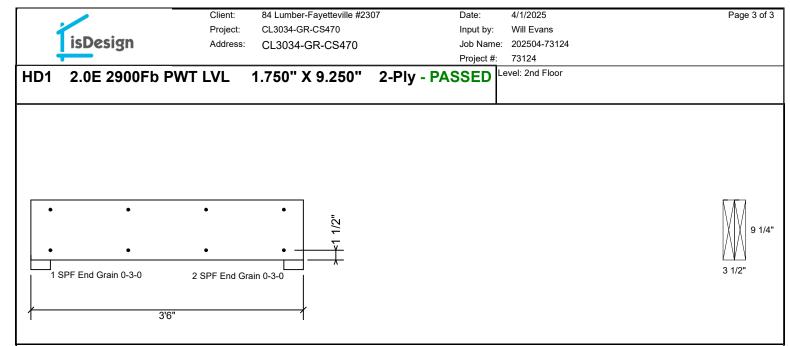
Version 24.60.996 Powered by iStruct[™] Dataset: 25010801.1457

		Clie	ont: 9/1	umbor Fox	etteville #23	07	Dr	ate:	4/1/2025					Page 1 of 3
2				034-GR-C		07		out by:	Will Evar					Fage 1013
lis	Design		-	3034-GR			-	-	: 202504-7					
			01		00110			oject #:	73124					
HD1 2.	0E 2900Fb	PWT LVI	L 1.7	50" X 9	.250"	2-Ply	- PASS	ED L	evel: 2nd F	loor				
	5 3 1 ••••••••••••••••••••••••••••••••••		9 _ 10	•										9 1/4"
				I										
Member Inf		F	Annlingtion	F la			Reaction							0
Type: Plies:	Girder 2		Application: Design Meth	Flo od: AS			Brg Dire 1 Verti	ction	Live 427	D	921	Snow 545	Wind 0	Cons
Moisture Cond			Building Coc		2021		1 Verti 2 Verti		427 164		921 1343	545 987	0	
Deflection LL:	360		Load Sharin				Z Veru	cai	104		1040	307	0	
Deflection TL:	240		Deck:		Checked									
Importance:	Normal - II													
Temperature:	Temp <= 100°	F												
General Load							Bearings	5						
Floor Live:	40 PSF						Bearing	-			eact D/L lb		Ld. Case	Ld. Comb
Dead:	10 PSF						1 - SPF	3.000"	Vert	21%	921 / 729	1650	L	D+0.75(L+
Analysis Res	sulte						End Grain							
-		Location Allo		anacity	Comb.	Case	2 - SPF	3.000"	Vert	30%	1343 / 987	2330	L	D+S
Analysis Moment	Actual 1742 ft-lb	2'2 1/2" 142			Comb. D+S	Case L	End							
Shear	1742 It-ib 1879 lb	2'5 3/4" 707			D+S D+S	L	Grain							
	0.005 (L/7665)	2'2 1/2" 0.1			S									
	0.012 (L/3185)	2'2 1/16" 0.1			D+S	L								
	. ,	221/10 0.1	30 (L/240) 8	70	D+3	L	l							
Design Not		-1		41										
	port to prevent later Deflection: Instant =				irings.									
	lies using 2 rows of				Maximum e	nd								
	t to exceed 6". Clinc													
	t page of calculation designed to be supp				ds.									
	nust be supported eq		-	iry.										
•	e laterally braced at e	•												
	t be laterally braced	•		\\/;eltl-	Viele	Decilor	L	. <u>0</u> .		14/6	0			
ID	Load Type		cation Trib		Side -	Dead 0.9	Live 1				6 Const. 1.2		ments	
1	Part. Uniform	0-0-0 to 2		٦	ор	96 PLF	0 PLF		0 PLF	0 PLF			Self Weight	
2	Part. Uniform	0-0-0 to	2-8-8	٦	ор	5 PLF	0 PLF	-	0 PLF	0 PLF	= 0 PL	.F Rim I	Board Self	Weight
3	Part. Uniform	0-0-0 to 2	2-2-14	٦	ор	120 PLF	0 PLF	12	20 PLF	0 PLF	= 0 PL	.F		
4	Point		0-1-0	٦	ор	134 lb	329 lb)	41 lb	0 lk	0	lb FB4		
	Bearing Length		0-3-8											
5	Tapered Start		0-2-4	٦	ор	10 PLF	39 PLF	-	0 PLF	0 PLF	- 0 PL	.F		
Continued on pag	ge 2													
									Manufacture	or Info		1101	bor	
Notes	ilysis is based on the loa	she							Manufacture Pacific Wood			US Lum 3312 No		y Lake Rd, 0
geometry and other co	onditions as entered by the up ort. The user is responsible	user e to							1850 Park La	ane		30096		. , .
ensure the accuracy of the actual conditions	f the input and the applicabilit of the structure for which	y to this							Burlington, V (800) 515-75			888-613	-3078	
component is intended product listed.	. This analysis is valid only for	the							www.pwtewp	o.com	R-2403 APA:			
Convright 2022 All right	nts reserved by Pacific Woodt	lech									LIV AFA.			
Corp 1850 Park Lane, I	Burlington, WA 98233					esign is valid			PR-L233 PR	-L280			S.LUM	

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		Oliante	0.4 Lumahan [ovetteville #C	207	Date		4/1/202)5		Daga 2 of 2
		Client: Project:	CL3034-GR	Fayetteville #2 -CS470	.307	Inpu		Will Ev			Page 2 of 3
isDesigr	1	Address:	CL3034-G			-	Name:				
						Proje	ect #:	73124			
HD1 2.0E 290	0Fb PWT		1.750" X	9.250"	2-Ply ·	PASSE	D Le	evel: 2nd	Floor		
	3	7] 9 _	10								$\left[\Lambda \right]$
SPF End Grain 0-	3-0 2 3'6"	• 2 SPF End Gra	in 0-3-0								3 1/2" 9 1/4"
Continued from page 1 ID Load T	ype	Location	Trib Width	Side	Dead 0.9	Live 1	Snow	1.15	Wind 1.6	Const. 1.25	Comments
End		2-0-12			10 PLF	39 PLF		0 PLF	0 PLF	0 PLF	
6 Tapered	Start	2-0-12		Тор	10 PLF	39 PLF	(0 PLF	0 PLF	0 PLF	
End		2-5-0			10 PLF	39 PLF	(0 PLF	0 PLF	0 PLF	
7 Point		2-2-8		Тор	428 lb	0 lb	3	330 lb	0 lb	0 lb	
Bearing	Length	0-3-8									Weight
8 Part. Ur		-2-14 to 2-8-8		Тор	120 PLF	0 PLF	120	0 PLF	0 PLF	0 PLF	
9 Point		2-6-12		Тор	1016 lb	175 lb	-	741 lb	0 lb	0 lb	FB1
Bearing	Length	0-3-8			101018		•		0.15	0.12	
10 Part. Ur Self We	iform 2	2-8-8 to 3-6-0		Тор	120 PLF 9 PLF	0 PLF	120	0 PLF	0 PLF	0 PLF	
Notes This component analysis is based geometry and other conditions as ente and listed in this report. The user is ensure the accuracy of the input and the the actual conditions of the structure	red by the user responsible to e applicability to for which this						P 1 B (8	850 Park urlington, 300) 515-	odtech Corp Lane WA 98233 7570	3	US Lumber 3312 North Berkeley Lake Rd, G/ 30096 888-613-5078
component is intended. This analysis is product listed. Copyright 2023 All rights reserved by F Corp 1850 Park Lane, Burlington, WA 98 Version 24.60.996 Powered by iS	acific Woodtech 233	010001 1457		This	design is valid u	ntil 9/3/2027	10	/ww.pwte\ CC-ES: E R-L233 F	SR-2909 ESR-		

CSD DESIGN BUILD

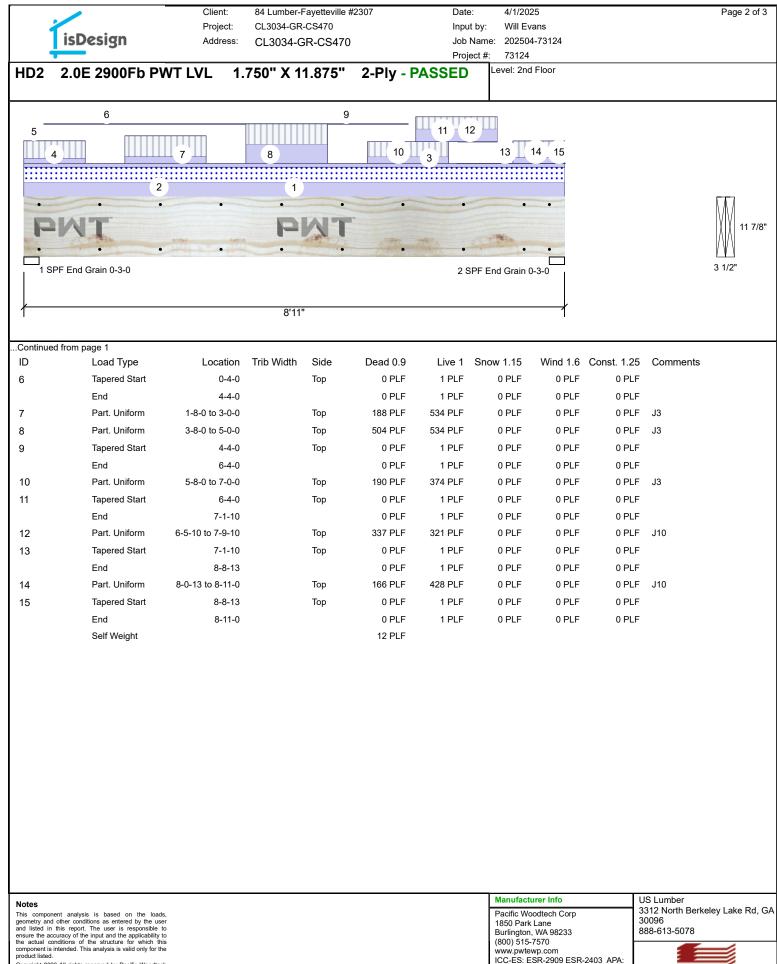


Fasten all plies using 2 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. Maximum end distance not to exceed 6". Clinch Nails where possible.

Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	235.2 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Notes		Manufacturer Info	US Lumber
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 analysis is valid only for the Copyright 2023 All rights reserved by Pacific Woodtech Corp 1850 Park Lane, Burlington, WA 98233		Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570	3312 North Berkeley Lake Rd, GA 30096 888-613-5078
		(00) 513-7370 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280	
	This design is valid until 9/3/2027		U.S. LUMBER

		Clien	t. 0.4 L	en Ferretterrille	#2207	Det	e: 4/1/2025				Dara 1 of 2
-		Proje		er-Fayetteville GR-CS470	#2307	Date	itby: WillEva				Page 1 of 3
lis	Design	Addre		4-GR-CS47	า	-	Name: 202504-				
			02000				ect #: 73124				
HD2 2.0)E 2900Fb P	WT LVL	1.750" X	11.875"	2-Ply -	PASSED	Level: 2nd F	loor			
	6			()		2				
5		7	8		10		13 14	4 15			
4			0			3					
		2		1							
DIA	T		K	TIAL	*						11 7/8"
		· Miner.	-		et.	-	Contraction .	•			M
1 SPF En	d Grain 0-3-0					2 5	SPF End Grain 0-3	3-0			3 1/2"
ł			8	'11"							
Member Inf	ormation					Reactions	PATTERNED	b (Unlif	·+)		
Туре:	Girder	A	Application:	Floor		Brg Direc			-	now Win	d Const
Plies:	2	C	Design Method:	ASD		1 Vertica	al 1567	303	32 1	694	0 0
Moisture Cond	ition: Dry		Building Code:	IRC 2021		2 Vertica	al 1606	327	77 1	694	0 0
Deflection LL:	360		_oad Sharing:	No							
Deflection TL:	240		Deck:	Not Checke	ed						
Importance:	Normal - II	, -									
Temperature: General Load	Temp <= 100°	F				Bearings					
Floor Live:	40 PSF					Bearing L	ength Dir.	Cap. Rea	at D/L lb	Total Ld. Case	e Ld. Comb.
Dead:	40 PSF 10 PSF						0	•		5478 L	
Deau.	101 51					1 - SPF 3 End	.000 ven	70% 303	32 / 2446	5478 L	D+0.75(L+S)
Analysis Res	sults					Grain					
Analysis	Actual	Location Allow	ved Capao	city Comb.	Case	2 - SPF 3 End	.000" Vert	73% 327	77 / 2475	5752 L	D+0.75(L+S)
Moment	11810 ft-lb	4'5 5/8" 2288	8 ft-lb 52%	D+0.75	(L+S) L	Grain					
Shear	4302 lb	7'8 1/8" 9081	lb 47%	D+0.75	(L+S) L						
LL Defl inch	0.081 (L/1262)	4'5 1/2" 0.285	5 (L/360) 29%	0.75(L+	S) L						
TL Defl inch	0.190 (L/539)	4'5 11/16" 0.427	7 (L/240) 45%	D+0.75	(L+S) L						
Design Note	es					1					
	port to prevent later			nd bearings.		1					
	Deflection: Instant =			0" o o Movimu	um and						
distance not	lies using 2 rows of to exceed 6". Clincl	h Nails where pos	(.146X3.25) at 1 ssible.	Z O.C. Maximu	im end						
	t page of calculation			ed loads.							
	designed to be supp		• •								
	ust be supported eq a laterally braced at e										
	t be laterally braced										
ID	Load Type	Loca	ition Trib Wid	th Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Part. Uniform	0-0-0 to 8-	11-0	Тор	5 PLF	0 PLF	0 PLF	0 PLF	0 PLF	Rim Board Se	lf Weight
2	Part. Uniform	0-0-0 to 8-	11-0	Тор	380 PLF	0 PLF	380 PLF	0 PLF	0 PLF	:	
3	Part. Uniform	0-0-0 to 8-1		Тор	96 PLF	0 PLF	0 PLF	0 PLF	0 PLF		aht
3	Part. Uniform	0-0-0 to 1		Тор	147 PLF	450 PLF	0 PLF	0 PLF	0 PLF		y•
•				•							
5	Tapered Start		0-0-0	Тор	0 PLF	1 PLF	0 PLF	0 PLF	0 PLF		
Continued on pag	End ge 2	0	0-4-0		0 PLF	1 PLF	0 PLF	0 PLF	0 PLF		
Notes							Manufactur	er Info		US Lumber	
This component anal	lysis is based on the loa onditions as entered by the u	ads,					Pacific Woo			3312 North Berke 30096	eley Lake Rd, GA
and listed in this rep	ort. The user is responsible	e to					1850 Park L Burlington, \	NA 98233		888-613-5078	
the actual conditions component is intended	f the input and the applicabilit of the structure for which This analysis is valid only for	this the					(800) 515-7 www.pwtew	570	F	-	
product listed.							ICC-ES: ES	R-2909 ESR-2	403 APA:		
Corp 1850 Park Lane, E	ts reserved by Pacific Woodt Burlington, WA 98233			т	his design is valid	until 9/3/2027	PR-L233 PF	K-L280			MBER
				I	nis ucargin is vallu	anu 3/3/2021				U.S. L U	MDER

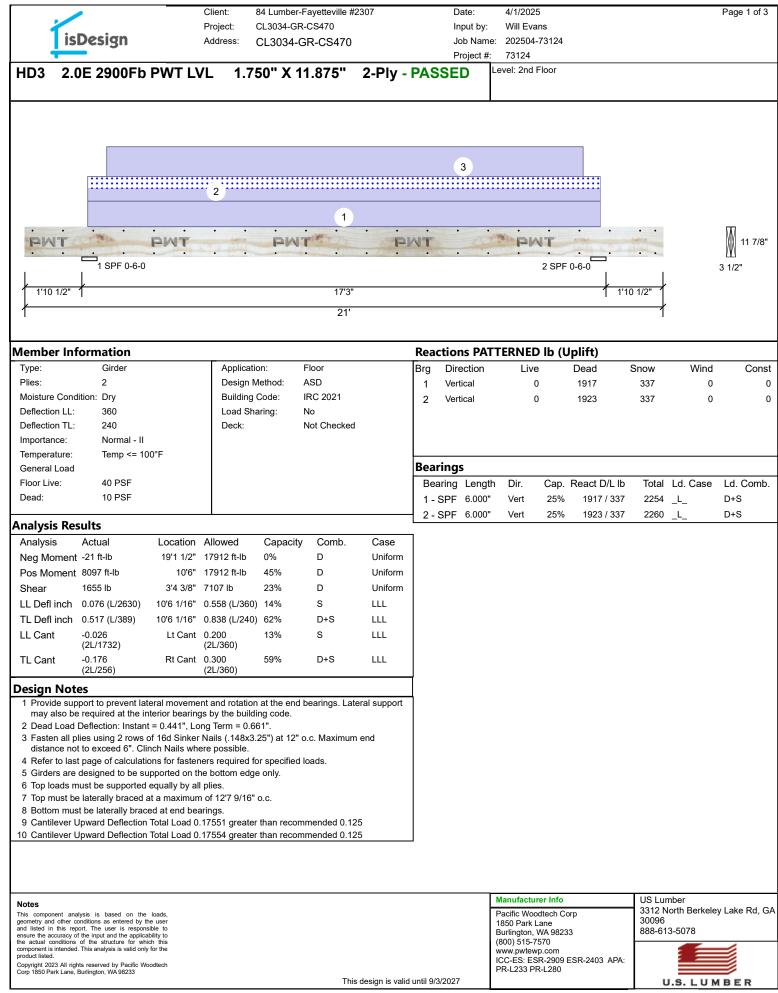


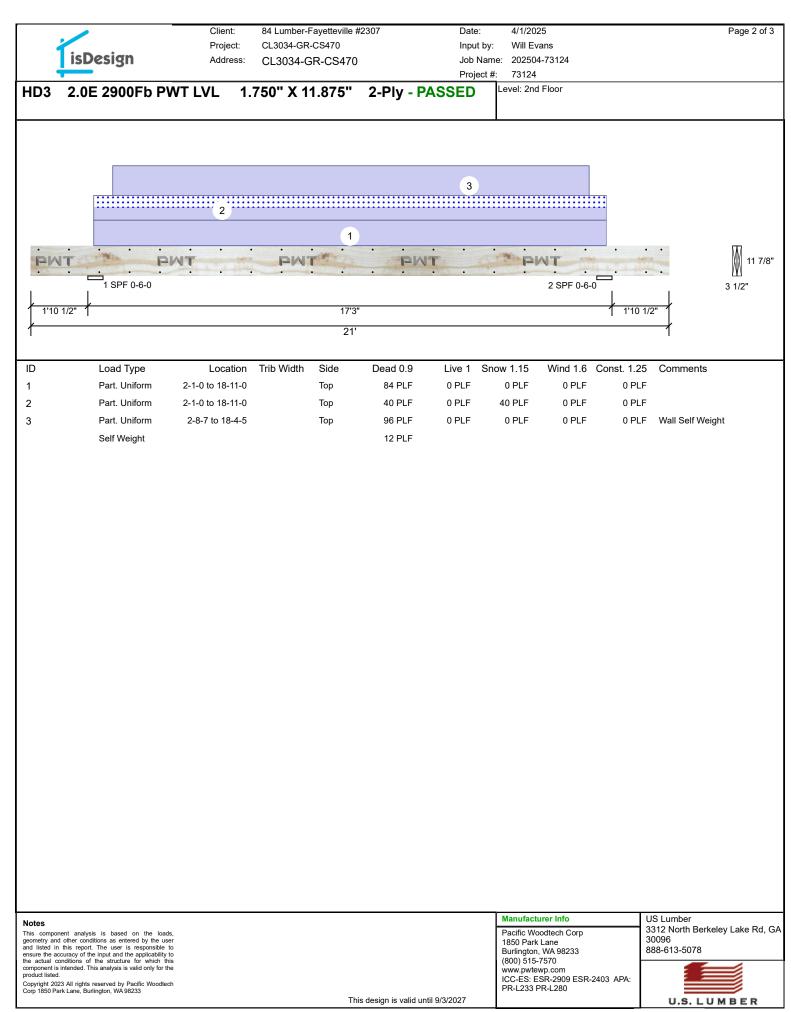
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PR-L233 PR-L280

U.S. LUMBER

	C	lient: 84	Lumber-Fayette	ville #2307	Date	e: 4/1/2025		Page 3 of 3
isDesign			3034-GR-CS47		-	It by: Will Evans		
Ispesign	A	ddress: Cl	_3034-GR-CS	5470		Name: 202504-73124 ect #: 73124		
HD2 2.0E 2900F	b PWT LVI	_ 1.750)" X 11.87	5" 2-Ply	- PASSED	Level: 2nd Floor		
• •	•	•	•	•	• •	••		
							1/2"	11 7/8"
	•	•	•	•			<u></u>	
1 SPF End Grain 0-3-0	•	•	•	•	• •	SPF End Grain 0-3-0		3 1/2"
					2.0	SFF End Grain 0-3-0		
/			8'11"					
Multi-Ply Analysis								
asten all plies using 2	rows of 16d Si	nker Nails (.148x3.25") a	at 12" o.c M	aximum end o	distance not to exc	eed 6". Clinc	ch Nails
vhere possible. apacity	0.0 %							
bad	0.0 PLF							
ield Limit per Foot ield Limit per Fastener	235.2 PLF 117.6 lb.							
M	1							
ield Mode dge Distance	IV 1 1/2"							
lin. End Distance	3"							
oad Combination								
Ouration Factor	1.00							
Nataa						Manufacturer Info		US Lumber
Notes This component analysis is based on geometry and other conditions as entered	the loads,					Pacific Woodtech C	orp	3312 North Berkeley Lake Rd, GA
and listed in this report. The user is re ensure the accuracy of the input and the a	sponsible to pplicability to					1850 Park Lane Burlington, WA 9823	3	30096 888-613-5078
the actual conditions of the structure to component is intended. This analysis is vali product listed.	r which this d only for the					(800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909		
Copyright 2023 All rights reserved by Paci Corp 1850 Park Lane, Burlington, WA 9823	fic Woodtech 3			This desires in		PR-L233 PR-L280	LOR-2400 APA:	
				i nis design is v	alid until 9/3/2027			U.S. LUMBER





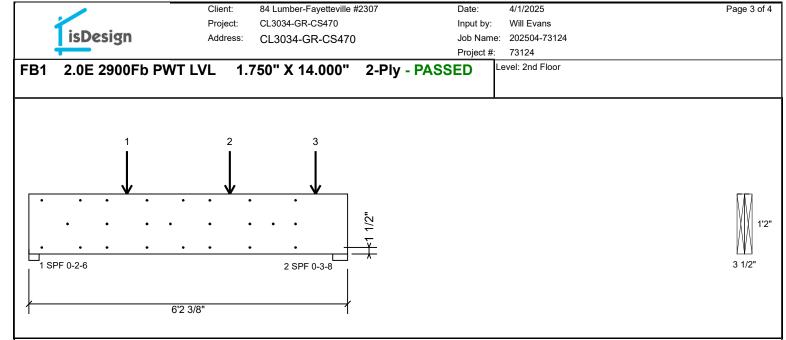
	Client:	84 Lumber-Fayetteville #2	2307	Date:	4/1/2025		Page 3 of 3
	Project:	CL3034-GR-CS470		Input by:	Will Evans		
isDesign	Address:	CL3034-GR-CS470		Job Name:	202504-73124		
		010001 011 00 110		Project #:	73124		
HD3 2.0E 2900F	b PWT LVL 1.	750" X 11.875"	2-Ply -		evel: 2nd Floor		
	· · · · ·	••••	•••	· · ·	· · · ·	· · · · · · · · · · · · · · · · · · ·	11 7/8"
1 SPF 0-6	-0				2 SPF 0-6-0		3 1/2"
1'10 1/2" 1		17'3"				1 1'10 1/2" 1	
/ <i>/</i>		21'					
		21				I	
Multi-Ply Analysis Fasten all plies using 2 r where possible.	ows of 16d Sinker Na	ails (.148x3.25") at 12'	" o.c Maxi	imum end distan	ce not to exceed 6".	. Clinch Nails	
Capacity	0.0 %						
Load	0.0 PLF						
Yield Limit per Foot	235.2 PLF						
Yield Limit per Fastener	117.6 lb.						
См	1						
Yield Mode	IV						
Edge Distance	1 1/2"						
Min. End Distance	3"						
Load Combination	1.00						
Duration Factor	1.00						

Notes		Manufacturer Info	US Lumber
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. Copyright 2023 All rights reserved by Pacific Woodtech Corp 1850 Park Lane, Burlington, WA 98233		Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280	3312 North Berkeley Lake Rd, G. 30096 888-613-5078
	This design is valid until 9/3/2027		U.S. LUMBER

	•	C	Client:	84 Lumber-	Fayetteville #2	307		Date:	4/1/2025	5				Page 1 of 4
				CL3034-GF	-			Input b						·g- · - · ·
is	Design		-	CL3034-0	GR-CS470				ame: 202504-	73124				
· · · ·								Project	t #: 73124					
FB1 2.0	E 2900Fb F	PWT LVL	. 1.7	50" X 1	4.000"	2-Ply -	PASS	SED	Level: 2nd F	loor				
						•								
1 P 1 1 SPF 0-2-			4 ↓ . ₽	• • • 2 SP	6 5 7 F 0-3-8				_					1'2" 3 1/2"
<i>†</i>		6'2 3/8"			{									
								• •						
Member Inf			Amalia - 1	<u></u>	Floor		-		ATTERNED				147	
Type: Plies:	Girder 2		Applicati Design N		Floor ASD		l v	Direction Vertical	n Live 175		ead 5 016	Snow 741	Wind 0	Const 0
Moisture Cond			Building		IRC 2021			Vertical	146		224	911	0	0
Deflection LL:	360		Load Sh		No			vortioar	140		227	511	0	Ū
Deflection TL:	240		Deck:		Not Checked									
Importance:	Normal - II													
Temperature:	Temp <= 100)°F												
General Load							Beari	-						
Floor Live:	40 PSF							ing Ler			eact D/L lb		Ld. Case	Ld. Comb.
Dead:	10 PSF							PF 2.37			1016 / 741	1757		D+S
Analysis Res	sults						2-5	PF 3.50	00" Vert	41%	1224 / 911	2135	L	D+S
Analysis	Actual	Location A	llowed	Capacity	/ Comb.	Case	٦							
Moment	3230 ft-lb	3'10 7/8" 3	0810 ft-lb	10%	D+S	L								
Shear	2110 lb	4'8 7/8" 1	0707 lb	20%	D+S	L								
LL Defl inch	0.009 (L/8199)	3'1 3/8" 0	.194 (L/360)	4%	S	L								
TL Defl inch	0.020 (L/3508)	3'1 5/16" 0	.292 (L/240)	7%	D+S	L								
Design Not	es						1							
	port to prevent late	eral movement	and rotatior	at the end	bearings.		4							
 Fasten all p distance no Refer to las Concentrate present. Girders are Top loads m Top must be 	 2 Dead Load Deflection: Instant = 0.011", Long Term = 0.017". 3 Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c. Maximum end distance not to exceed 6". Clinch Nails where possible. 4 Refer to last page of calculations for fasteners required for specified loads. 5 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present. 6 Girders are designed to be supported on the bottom edge only. 7 Top loads must be supported equally by all plies. 8 Top must be laterally braced at end bearings. 9 Bottom must be laterally braced at end bearings. 													
ID	Load Type	L	ocation	Frib Width	Side	Dead 0.9	L	ive 1 S	Snow 1.15	Wind 1.6	Const. 1.2	25 Co	nments	
1	Tie-In	0-0-0	to 0-2-6 1	-2-14	Тор	10 PSF	40	PSF	0 PSF	0 PSF	0 PS	SF		
2	Tie-In	0-2-6 to	1-10-14 1	-2-14	Тор	10 PSF	40	PSF	0 PSF	0 PSF	0 PS	SF		
3	Point		1-10-14		Far Face	905 lb		88 lb	704 lb	0 lb	0	lb J2		
4	Point		3-10-14		Far Face	839 lb		82 lb	652 lb	0 lb	0	lb J2		
5	Tie-In	5-6-14 to	5-10-14 1	-2-14	Тор	10 PSF	40	PSF	0 PSF	0 PSF	0 PS	SF		
Continued on pa					ı									
geometry and other or and listed in this rep ensure the accuracy o the actual conditions	lysis is based on the l onditions as entered by the ort. The user is responsit f the input and the applicab of the structure for which . This analysis is valid only for	user ble to liity to h this							Manufactur Pacific Woo 1850 Park L Burlington, V (800) 515-7 www.pwtew	dtech Corp ane WA 98233 570 p.com		US Lur 3312 N 30096 888-61	orth Berkele	y Lake Rd, GA
	nts reserved by Pacific Woo Burlington, WA 98233	dtech			This	design is valio	1 until 9/3/2	2027		R-2909 ESF	R-2403 APA:	ι	I.S. L U M	BER

$\begin{array}{c} \hline \\ B1 & 2.0E & 2900Fb \ PWT \ LVL & 1.750" \ X \ 14.000" \ 2-Ply - PASSED \\ \hline \\ $	ť.	Docian	Client: Project:	84 Lumber-F CL3034-GR-	CS470	2307	Date Inpu	t by: Will E	vans		Page 2 o
B1 2.0E 2900Fb PWT LVL 1.750" X 14.000" 2-Ply - PASSED Level: 2nd Floor Image: Second		spesign	Address:	CL3034-G	R-CS470						
1 2 5 7 1 2 5 7 1 2 5 7 1 2 0 5 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 1 1 2 0 1 1 2 0 1 0 1 2 0 0 1 2 0 0 1 2 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <	B1 2.	0E 2900Fb P	WT LVL 1.	750" X 14	4.000"	2-Ply - P/	ASSED	Level: 2n	d Floor		
1 2 5 7 1 2 5 7 1 2 5 7 1 2 0 5 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 2 1 2 0 1 1 2 0 1 1 2 0 1 0 1 2 0 0 1 2 0 0 1 2 0 0 1 0 0 0 1 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <								•			
I SPF 0-2-6 2 SPF 0-3-8 6'2 3/8" 0 Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments 5-6-14 Far Face 381 lb 37 lb 296 lb 0 lb 0 lb J2		3	4		6						
1 SPF 0-2-6 2 SPF 0-3-8 6'2 3/8" 3 1/2" 6'2 3/8" 0 Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Point 5-6-14 Far Face 381 lb 37 lb 296 lb 0 lb 0 lb J2 Tie-In 5-10-14 to 6-2-6 0-2-10 Top 10 PSF 40 PSF 0 PSF 0 PSF 0 PSF	1	2			5 7						M
1 SPF 0-2-6 2 SPF 0-3-8 3 1/2" 6'2 3/8" 6'2 3/8" 3 1/2" 0 Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Point 5-6-14 Far Face 381 lb 37 lb 296 lb 0 lb 0 lb J2 Tie-In 5-10-14 to 6-2-6 0-2-10 Top 10 PSF 40 PSF 0 PSF 0 PSF	PN	IT		TMC	1. Mar 1						Ŵ
ontinued from page 1 D Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Point 5-6-14 Far Face 381 lb 37 lb 296 lb 0 lb 0 lb J2 Tie-In 5-10-14 to 6-2-6 0-2-10 Top 10 PSF 40 PSF 0 PSF 0 PSF 0 PSF	 1 SPF 0-:	2-6		2 SPF	0-3-8						3 1/2"
D Load Type Location Trib Width Side Dead 0.9 Live 1 Snow 1.15 Wind 1.6 Const. 1.25 Comments Point 5-6-14 Far Face 381 lb 37 lb 296 lb 0 lb 0 lb J2 Tie-In 5-10-14 to 6-2-6 0-2-10 Top 10 PSF 40 PSF 0 PSF 0 PSF 0 PSF			6'2 3/8"								
Tie-In 5-10-14 to 6-2-6 0-2-10 Top 10 PSF 40 PSF 0 PSF 0 PSF 0 PSF)	Load Type		Trib Width							
		Tie-In		0-2-10		10 PSF					

Notes		Manufacturer Info	US Lumber
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. Copyright 2023 All rights reserved by Pacific Woodtech Corp 1850 Park Lane, Burlington, WA 98233		Pacific Woodtech Corp 1850 Park Lane Burlington, WA 98233 (800) 515-7570 www.pwtewp.com ICC-ES: ESR-2909 ESR-2403 APA: PR-L233 PR-L280	3312 North Berkeley Lake Rd, GA 30096 888-613-5078
	This design is valid until 9/3/2027		U.S. LUMBER



Fasten all plies using 3 rows of 16d Sinker Nails (.148x3.25") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6". Clinch Nails where possible.

asternigt maxima e	
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	352.8 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 1-10-14 with a

minimum of (6) - 16d Sinker Nails (.148x3.25") in the

pattern shown.

pattern shown. Capacity

Total Yield Limit

Yield Mode

Notes

Yield Limit per Fastener

oad Combination

Duration Factor

Load

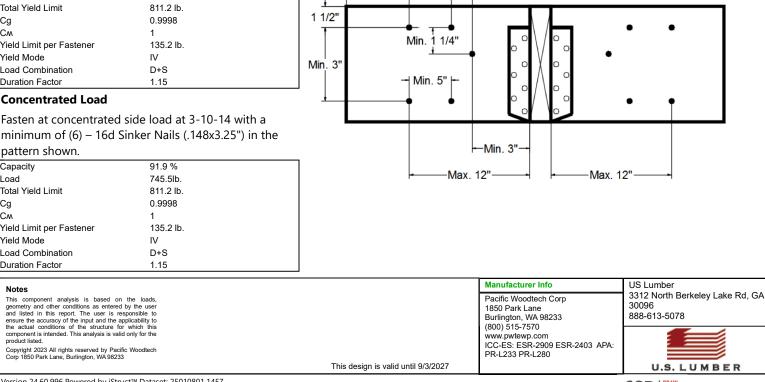
Cg См

•		
Capacity	99.2 %	
Load	804.5lb.	
Total Yield Limit	811.2 lb.	
Cg Cm	0.9998	
См	1	
Yield Limit per Fastener	135.2 lb.	
Yield Mode	IV	
Load Combination	D+S	
Duration Factor	1.15	

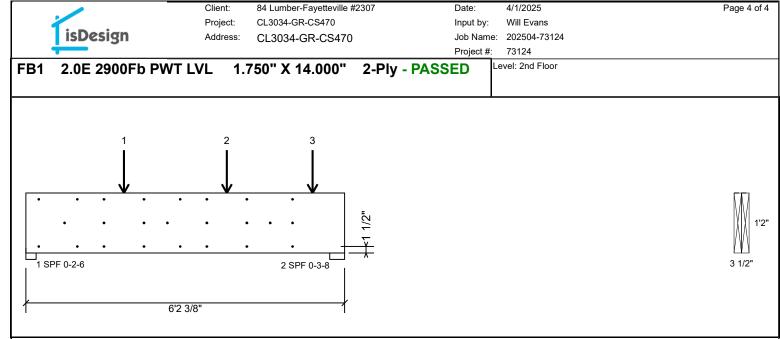
-Min. 3"⊣

Min/Max fastener distances for Concentrated Side Loads

Min. 1 1/4"



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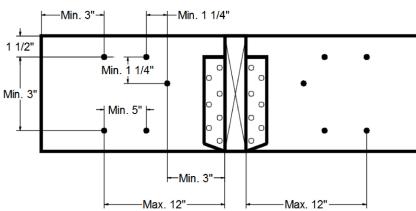


Concentrated Load

Fasten at concentrated side load at 5-6-14 with a minimum of (3) – 16d Sinker Nails (.148x3.25") in the

pattern shown.

Capacity	83.5 %	
Load	338.5lb.	
Total Yield Limit	405.6 lb.	
Cg	0.9998	
См	1	
Yield Limit per Fastener	135.2 lb.	
Yield Mode	IV	
Load Combination	D+S	
Duration Factor	1.15	





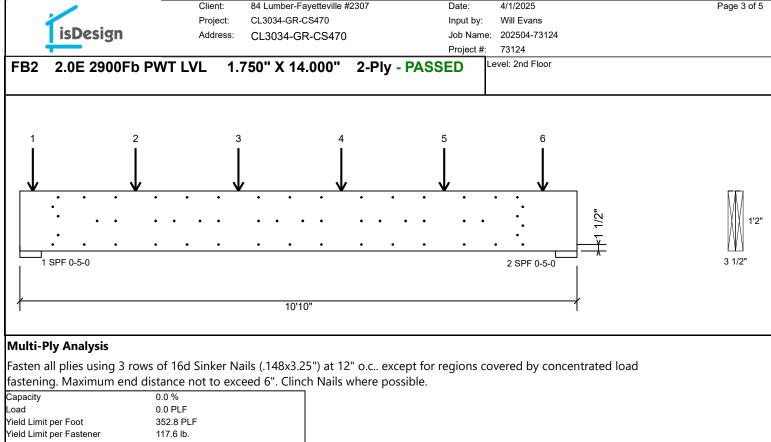
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		Clien		r-Fayetteville #2	2307		ate:	4/1/2025					Page 1 of 5
	Design	Proje					out by:	Will Evar					
IS	Design	Addre	ess: CL3034-	GR-CS470				202504-	73124				
							oject #:	73124					
FB2 2.0)E 2900Fb F	PWT LVL	1.750" X ′	14.000"	2-Ply -	PASSE	ן כ	evel: 2nd F	loor				
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1. The		· · · · · · · · · · · · · · · · · · ·	a series and a series of the s		100 - 100 - 100 - 100 - 100	State of the State of the	•	•					<u> </u>
1 SPF ()-5-0							2 SPF	0-5-0	_ 			3 1/2"
1			10	0'10"						1			
Member Inf	formation					Desetion			lh (l In	1:4+)			
_						Reaction						14/2 1	
Type:	Girder 2		Application: Design Method:	Floor		Ĭ	ction	Live		ead	Snow	Wind	Const
Plies: Moisture Cond			Building Code:	ASD IRC 2021		1 Verti		1968		3609	2058	0	0
Deflection LL:	360		oad Sharing:	No		2 Verti	cal	2117	4	4058	2058	0	0
Deflection TL:	240		bad Shanng. Jeck:	Not Checked									
Importance:	Normal - II												
Temperature:	Temp <= 100	°F											
General Load	1011p 100					Bearings							
Floor Live:	40 PSF					Bearing		Dir.	Cap. R	eact D/L lb	Total	Ld. Case	Ld. Comb.
Dead:	10 PSF					1 - SPF	-	Vert	•	3609 / 3020	6628		D+0.75(L+S)
						2 - SPF		Vert		4058 / 3131	7190		D+0.75(L+S)
Analysis Re	sults					2 011							
Analysis	Actual	Location Allow	ved Capacit	ty Comb.	Case	1							
Moment	15742 ft-lb	5'9 15/16" 3081		D+0.75(L+	⊦S) L								
Shear	5314 lb	9'3" 9310	lb 57%	D+L	L								
LL Defl inch	0.096 (L/1270)	5'5 9/16" 0.338	(L/360) 28%	0.75(L+S)	L								
TL Defl inch	0.217 (L/559)	5'5 7/8" 0.506	(L/240) 43%	D+0.75(L+	⊦S) L								
ļ			· · · ·	X	,	1							
Design Not	es port to prevent later	ral movement and	rotation at the an	dhaaringa		4							
	Deflection: Instant =			u bearings.									
	lies using 3 rows of			" o.c. Maximum	end								
	t to exceed 6". Clino												
	t page of calculation ed load fastener spe				aer is								
present.			allori to hanger la		goris								
	designed to be sup		om edge only.										
	nust be supported en e laterally braced at		3/9" o o										
	st be laterally braced at		0,0 0.0.										
ID	Load Type		tion Trib Width	Side	Dead 0.9	Live 1	Snov	v 1.15	Wind 1.6	Const. 1	.25 Co	mments	
1	Tie-In	0-0-0 to 10-1		Тор	10 PSF	40 PSF		0 PSF	0 PSF		PSF	-	
-									0 PLF				
2	Part. Uniform	0-0-0 to 10-1		Top -	380 PLF	0 PLF		0 PLF					
3	Part. Uniform	0-0-0 to 10-1		Тор	96 PLF	0 PLF		0 PLF	0 PLF			I Self Weigh	τ
4	Point	0	-3-0	Near Face	250 lb	541 lb)	0 lb	0 lb	0	0 lb J3		
5	Point	2	-3-0	Near Face	205 lb	534 lb)	0 lb	0 lb)	0 lb J3		
Continued on pa	ge 2												
ļ													
Notes								Manufactur			US Lur 3312 N		y Lake Rd, GA
geometry and other of	alysis is based on the lo onditions as entered by the	user						Pacific Wood 1850 Park Li			30096		J Lane Nu, GA
ensure the accuracy of	ort. The user is responsibl f the input and the applicabili of the structure for which	ity to					1	Burlington, V 800) 515-75	VA 98233		888-61	3-5078	
component is intended product listed.	I. This analysis is valid only fo	or the					Ň	www.pwtewp	o.com			-	
	hts reserved by Pacific Wood Burlington WA 98233	itech						CC-ES: ESP PR-L233 PR		R-2403 APA:			
oorp root raik Lane,	23111191011, 11/1 20200			This	design is valid	until 9/3/2027					ι	J.S. L U N	BER
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geometry and other conditions as entered by the user		1850 Park Lane
and listed in this report. The user is responsible to		Burlington, WA 98233
ensure the accuracy of the input and the applicability to		5 /
the actual conditions of the structure for which this		(800) 515-7570
component is intended. This analysis is valid only for the		www.pwtewp.com
product listed.		
Copyright 2023 All rights reserved by Pacific Woodtech		ICC-ES: ESR-2909 ESR-2403 APA:
Corp 1850 Park Lane, Burlington, WA 98233		PR-L233 PR-L280
Colp root and Land, Danington, ThreeLoo		
	This design is valid until 9/3/2027	

CSD DESIGN BUILD

U.S. LUMBER



Yield Limit per Foot	352.8 PLF
Yield Limit per Fastener	117.6 lb.
См	1
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

Concentrated Load

Load

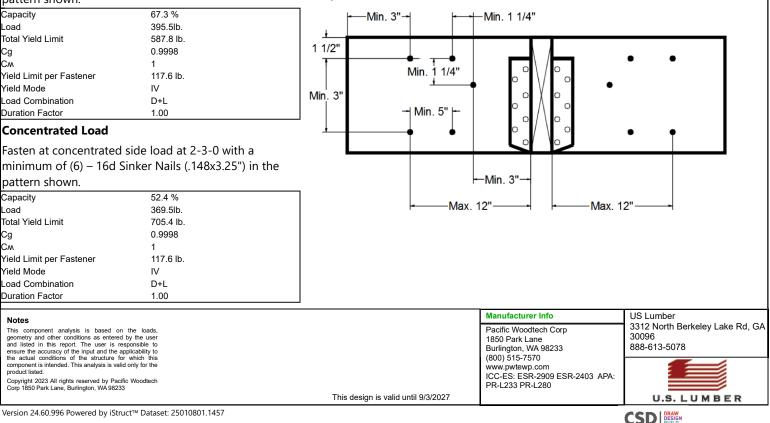
Cg См

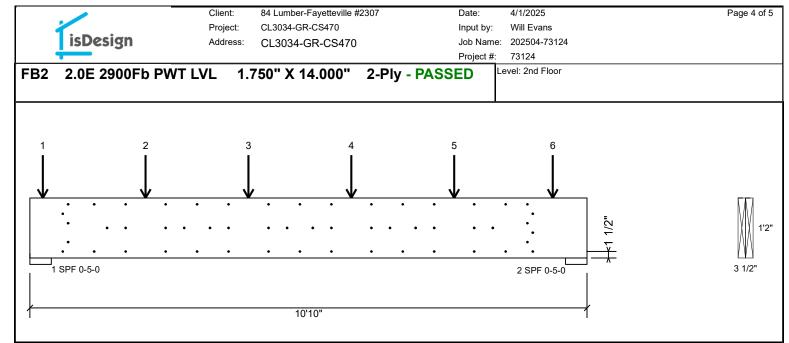
Notes

Fasten at concentrated side load at 0-3-0 with a

minimum of (5) - 16d Sinker Nails (.148x3.25") in the

pattern shown.		
Capacity	67.3 %	
Load	395.5lb.	
Total Yield Limit	587.8 lb.	
Cg	0.9998	
См	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	





Concentrated Load

Fasten at concentrated side load at 4-3-0 with a

minimum of (6) – 16d Sinker Nails (.148x3.25") in the

pattern	shown
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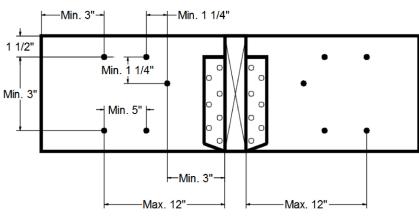
Capacity	51.9 %
Load	366.0lb.
Total Yield Limit	705.4 lb.
Cg Cm	0.9998
См	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

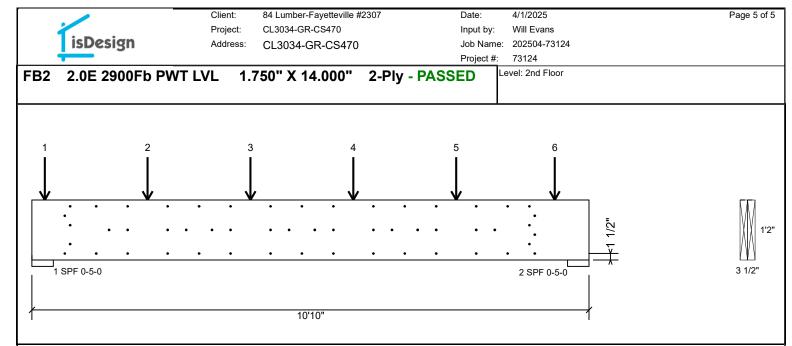
Fasten at concentrated side load at 6-3-0 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the

pattern	shown.
---------	--------

Capacity	94.5 %	
Load	666.5lb.	
Total Yield Limit	705.4 lb.	
Cg	0.9998	
См	1	
Yield Limit per Fastener	117.6 lb.	
Yield Mode	IV	
Load Combination	D+L	
Duration Factor	1.00	



Notes	Manufacturer Info	US Lumber
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Concentrated Load

Fasten at concentrated side load at 8-3-0 with a

minimum of (6) – 16d Sinker Nails (.148x3.25") in the

pattern	shown
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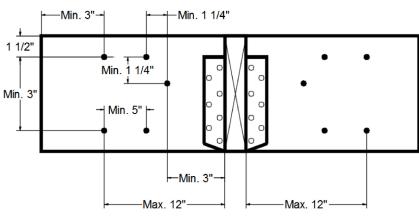
Capacity	61.0 %
Load	430.5lb.
Total Yield Limit	705.4 lb.
Сg См	0.9998
См	1
Yield Limit per Fastener	117.6 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

Concentrated Load

Fasten at concentrated side load at 10-2-0 with a minimum of (6) – 16d Sinker Nails (.148x3.25") in the

pattern	shown.
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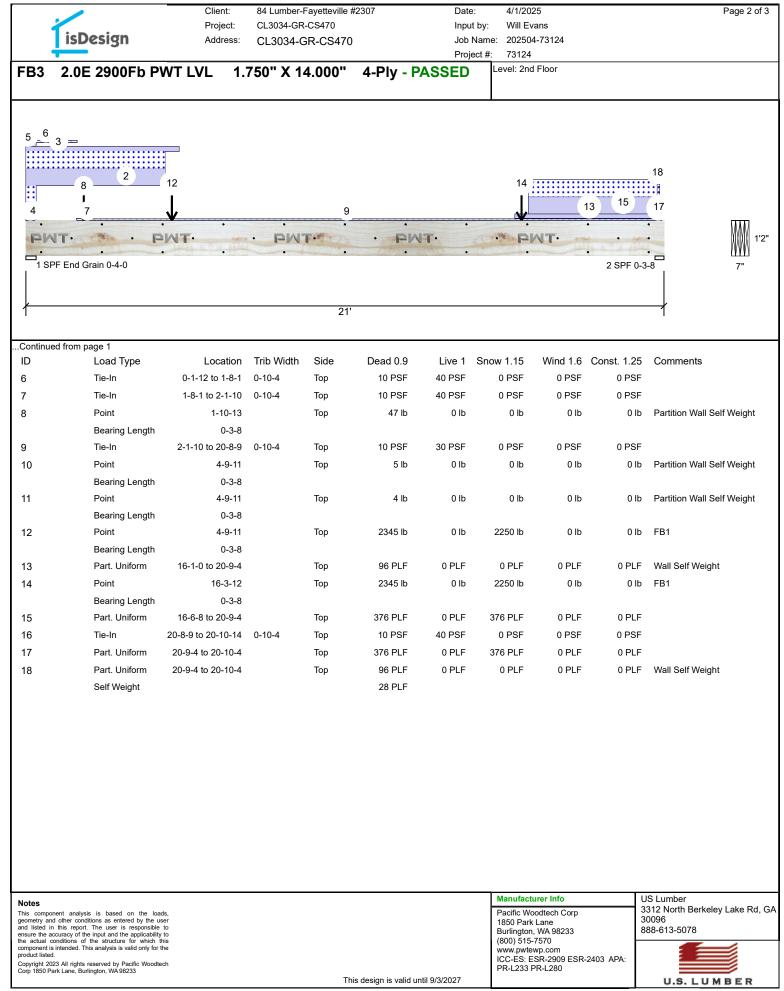
99.7 %
703.0lb.
705.4 lb.
0.9998
1
117.6 lb.
IV
D+L
1.00



Notes	Manufacturer Info	US Lumber	
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İS	Design		Address:	CL3034-	GR-CS470				Name:		73124					
					4 0 0 0 11		D A 0		ect #:	73124 evel: 2nd F	loor					
B3 2.0	DE 2900Fb		L 1. <i>1</i>	50" X 1	4.000"	4-PIy -	PAS	SED			1001					
⁵ ⁶ ₃ =		:::														
	8 2	- 12								14 🞹				18		
4	l 7	Ī			9							13	15	17		
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PNT	SALES AND DESCRIPTION	PNT	COLUMN ST	- FR	T	H	NT			PN	·	Sec.	in all	:		1'2
1 SPF End	d Grain 0-4-0											2	SPF 0-3	3-8		7"
1					21'									1		
	formation		F				-			FERNED		lift)				
Type: Plies:	Girder 4		Applica	tion: Method:	Floor ASD		Brg 1	Direc Vertic		Live 285)ead 5125		ow 082	Wind 0	Cor
Moisture Cond				g Code:	IRC 2021		2	Vertic		265		4829		386	0	
Deflection LL:			Load S	-	Yes			Vento	ai	200		1020	00		0	
Deflection TL:	240		Deck:		Not Checked											
mportance:	Normal - II															
Temperature:	Temp <= 10	0°F						•								
General Load								rings								
Floor Live:	40 PSF							aring L		Dir.	•	eact D/L			Ld. Case	Ld. Com
Dead:	10 PSF						1 - En	SPF 4 d	.000"	Vert	44%	5125 / 40)82	9206	L	D+S
nalysis Re	sults						Gra	ain	500"	Vert	84%	4000 / 20	000	8715		D+S
Analysis	Actual		Allowed	Capacit		Case	2-	SPF 3		Vert	04 /0	4829 / 38	500	0715	L	D+3
Moment	30582 ft-lb		64086 ft-lb	48%	D+S	L										
Shear	7597 lb		21413 lb	35%	D+S	L										
	0.379 (L/650)		0.683 (L/36	-	S	L										
	0.849 (L/290)	10'6"	1.025 (L/24	0) 83%	D+S	L	┥									
esign Not							4									
2 Dead Load	oport to prevent late Deflection: Instant blies using 3 rows o	= 0.470", Lor	ng Term = 0	706".		to exceed										
12". 4 Refer to las	t page of calculatio	ons for fasten	ers required	for specified	l loads.											
	steners applied fro		•	•		published.										
	designed to be su			ge only.												
	nust be supported e e laterally braced a			0.C.												
	st be laterally brace															
ID	Load Type		Location	Trib Width	Side	Dead 0.9		Live 1	Snow	/ 1.15	Wind 1.6	6 Cons	t. 1.25	Cor	nments	
1	Tie-In	0-0-	0 to 0-3-8	0-2-10	Тор	10 PSF		40 PSF	(0 PSF	0 PSF	=	0 PSF			
2	Part. Uniform	0-0-0	to 4-6-15		Тор	376 PLF		0 PLF	37	6 PLF	0 PLF	=	0 PLF			
3	Part. Uniform	0-0-	0 to 5-0-7		Тор	96 PLF		0 PLF		0 PLF	0 PLF	=	0 PLF	Wal	Self Weigh	t
4	Part. Uniform	0-0-	0 to 0-4-0		Тор	376 PLF		0 PLF	37	6 PLF	0 PLF	=	0 PLF			
5	Part. Uniform	0-0-	0 to 0-4-0		Тор	96 PLF		0 PLF		0 PLF	0 PLF	=	0 PLF	Wal	Self Weigh	t
ontinued on pa	ige 2															
Notes									N	Manufacture	er Info		l	JS Lun	nber	
This component and	alysis is based on the conditions as entered by the	loads,								Pacific Wood				3312 N 30096	orth Berkele	y Lake Rd,
and listed in this rep	conditions as entered by the port. The user is responsi of the input and the applicat	ble to							E	1850 Park La Burlington, V	VA 98233				3-5078	
the actual conditions component is intended	of the structure for which d. This analysis is valid only	h this							(800) 515-75 vww.pwtewp	570				-	
product listed. Copyright 2023 All rig	hts reserved by Pacific Woo								l.	CC-ES: ESF	R-2909 ES	R-2403 A	PA:			
	Burlington, WA 98233				This	design is valid	l until 0/	3/2027	F	PR-L233 PR	-L280				.s. LUN	BED
	Powered by iStruct™	Detecet: 25010	801 1457		1113									SD		

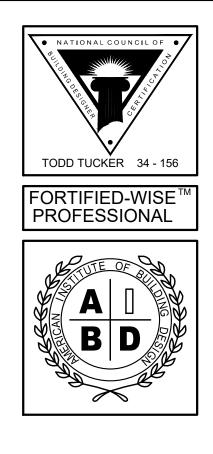
CSD BUILD



[Olianti	04 Lunchen Feuetteville #	0007	Deter	4/1/2025		Dere 2 of 2
	Client:	84 Lumber-Fayetteville #	2307	Date:			Page 3 of 3
isDesign	Project:	CL3034-GR-CS470		Input by:			
Ispesign	Address:	CL3034-GR-CS470		Job Nam			
				Project #			
FB3 2.0E 2900Fb	PWT LVL 1.	750" X 14.000"	4-Ply - PAS	SED	Level: 2nd Floor		
		<u> </u>	•		•		
	••••			•	•		
	•	• • •	• • •		• •		$\perp \nabla$ $\mathbb{W}^{\prime 2}$
1 SPF End Grain 0-4-0	• •	• •	•	•	•	2 SPF 0-3-8	
						2011 0-0-0	
1		21'					1
Multi-Ply Analysis							
Fasten all plies using 3 rov		t 24" o.c Maximum e	end distance not	to exceed	d 12".		
Capacity	0.0 %						
Load	0.0 PLF						
Yield Limit per Foot Yield Limit per Fastener	450.0 PLF 300.0 lb.						
CM	1						
Yield Mode	Lookup						
Edge Distance	1 1/2"						
Min. End Distance	6"						
Load Combination							
Duration Factor	1.00						
1							
1							
					Manufacturer Info	119	Lumber
Notes This component analysis is based on the	loads.				Pacific Woodtech Corp	33	12 North Berkeley Lake Rd, GA
geometry and other conditions as entered by the and listed in this report. The user is response	ne user				1850 Park Lane	300	096
ensure the accuracy of the input and the application the actual conditions of the structure for white	bility to				Burlington, WA 98233 (800) 515-7570	888	3-613-5078
component is intended. This analysis is valid only product listed.	for the				www.pwtewp.com		
Copyright 2023 All rights reserved by Pacific We Corp 1850 Park Lane, Burlington, WA 98233	podtech				ICC-ES: ESR-2909 ESR PR-L233 PR-L280	-2403 APA:	
Corp 1000 Park Lane, Burnington, WA 98233		Thi	s design is valid until 9/3	/2027			U.S. LUMBER

FOOTING DESIGN CALCULATION SUMMARY FOR BEAM HD-2 PERMIT NUMBER: SFD2504-0023 PROJECT: CL3034 SINGLE-FAMILY DWELLING DATE: APRIL 21, 2025 PREPARED BY: TODD TUCKER, AIBD, CPBD & XAI LOAD AND SOIL BEARING CAPACITY PROJECT DATA BEAM: HD-2 LOAD PER FOOTING: 6577 LBS (COMBINED LIVE AND DEAD LOAD) FOOTING SIZE: 30" X 30" X 12" DEEP CONCRETE STRENGTH: 3000 PSI SOIL BEARING CAPACITY: 1500 PSF (ASSUMED) COLUMN SIZE: 3.5" X 6" (GANGED SPF #2 LUMBER, CENTERED) CODE: ACI 318-19 STEP 1: SOIL BEARING CAPACITY CHECK FOOTING AREA: |(30 / 12) X (30 / 12) = 2.5 FT X 2.5 FT = 6.25 SQ.FT ALLOWABLE LOAD: 1500 PSF X 6.25 SQ.FT = 9375 LBS APPLIED LOAD: 6577 LBS 6577 LBS < 9375 LBS (SATISFACTORY) SOIL PRESSURE FOR DESIGN:

Q = 6577 / 6.25 ~ 1052.3 PSF



HD-2 : 1 OF 3

STEP 2: FACTORED LOAD FOR STRUCTURAL DESIGN CONSERVATIVE LOAD FACTOR (ACI 318-19, DEAD LOAD DOMINANT):

FACTORED LOAD = 1.4 X 6577 = 9207.8 LBS

FACTORED SOIL PRESSURE:

Q_U = 9207.8 / 6.25 ~ 1473.3 PSF

STEP 3: FLEXURAL DESIGN CRITICAL SECTION AT COLUMN FACE. CANTILEVER LENGTH:

(30 - 6) / 2 = 12 IN = 1.0 FT

MOMENT FOR I-FT WIDE STRIP:

M_U = 1473.3 PSF X (1 X 1.0) X (1.0 / 2) ~ 736.7 LB-FT/FT = 736.7 X 12 = 8840.4 LB-IN/FT

EFFECTIVE DEPTH (D):

D = 12 - 3 (COVER) - 0.3125 (HALF #5 BAR) ~ 8.69 IN

REQUIRED STEEL AREA (STRENGTH REDUCTION FACTOR = 0.9, STEEL YIELD STRENGTH = 60,000 PSI):

A_S = 8840.4 / (0.9 X 60,000 X 8.69) ~ 0.0188 SQ.IN/FT

MINIMUM REINFORCEMENT (ACI 318-19):

A_S,MIN = 0.0018 X 12 X 12 = 0.2592 SQ.IN/FT

MINIMUM GOVERNS. USE #5 BARS $(A_S = 0.31 \text{ SQ.IN})$:

|SPACING = (0.31 / 0.2592) X 12 ~ 14.35 IN

HD-2: 20F3

ADOPT #5 @ 12" ON CENTER (A_S = 0.31 SQ.IN/FT).

MAX SPACING: MIN(3 X 12, 18) = 18 IN. 12" O.C. IS SATISFACTORY.

STEP 4: SHEAR CHECKS A) ONE-WAY SHEAR AT D = 8.69 IN = 0.724 FT FROM COLUMN FACE:

∨_U = 1473.3 X (1 X O.276) ~ 406.6 LB/FT

PHI V_C = 0.75 X 2 X SQRT(3000) X I2 X 8.69 ~ 8560.5 LB

8560.5 > 406.6 (SATISFACTORY)

B) PUNCHING SHEAR AT D/2 = 4.345 IN, PERIMETER B_0 = 2 X (3.5 + 8.69) + 2 X (6 + 8.69) = 53.76 IN:

√_U = 1473.3 X (6.25 - 1.244) ~ 7377.3 LB

PHI V_C = 0.75 X 4 X SQRT(3000) X 53.76 X 8.69 ~ 76792.7 LB

16792.7 > 1317.3 (SATISFACTORY)

STEP 5: REINFORCEMENT REINFORCEMENT: 4 #5 BARS @ 12" ON CENTER EACH WAY (BOTTOM MAT, TOTAL & BARS) COVER: 3" CLEAR AT BOTTOM CONCLUSION: THE 30"X30"X12" FOOTING IS ADEQUATE FOR THE 3.5" X 6" COLUMN. PROVIDE 4 #5 BARS @ 12" ON CENTER IN BOTH DIRECTIONS.

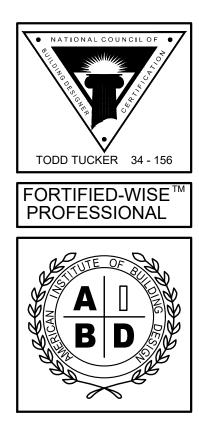
HD-2: 3 OF 3

FOOTING DESIGN CALCULATION SUMMARY FOR BEAM FB-3 PERMIT NUMBER: SFD2504-0023 PROJECT: CL3034 SINGLE-FAMILY DWELLING DATE: APRIL 21, 2025 PREPARED BY: TODD TUCKER, AIBD, CPBD & XAI LOAD AND SOIL BEARING CAPACITY PROJECT DATA BEAM: FB-3 LOAD PER FOOTING: 9492 LBS (COMBINED LIVE AND DEAD LOAD) FOOTING SIZE: 42" X 42" X 12" DEEP CONCRETE STRENGTH: 3000 PSI SOIL BEARING CAPACITY: 1500 PSF (ASSUMED) COLUMN SIZE: 7" X 3.5" (GANGED SPF #2 LUMBER, CENTERED) CODE: ACI 318-19 STEP 1: SOIL BEARING CAPACITY CHECK FOOTING AREA: (42 / 12) X (42 / 12) = 3.5 FT X 3.5 FT = 12.25 SQ.FT ALLOWABLE LOAD: 1500 PSF X 12.25 SQ.FT = 18,375 LBS APPLIED LOAD: 9492 LBS

9492 LBS < 18,375 LBS (SATISFACTORY)

SOIL PRESSURE FOR DESIGN:

Q = 9492 / 12.25 ~ 774.9 PSF



FB-3 : 1 OF 3

STEP 2: FACTORED LOAD FOR STRUCTURAL DESIGN CONSERVATIVE LOAD FACTOR (ACI 318-19, DEAD LOAD DOMINANT):

FACTORED LOAD = 1.4 X 9492 = 13,288.8 LBS

FACTORED SOIL PRESSURE:

Q_U = 13,288.8 / 12.25 ~ 1084.8 PSF

STEP 3: FLEXURAL DESIGN CRITICAL SECTION AT COLUMN FACE. CANTILEVER LENGTH:

(42 - 7) / 2 = 17.5 IN = 1.458 FT

MOMENT FOR I-FT WIDE STRIP:

```
M_U = 1084.8 PSF X (1 X 1.458) X (1.458 / 2) ~ 1153.7 LB-FT/FT = 1153.7 X 12 = 13,844.4 LB-IN/FT
```

EFFECTIVE DEPTH (D):

D = 12 - 3 (COVER) - 0.3125 (HALF #5 BAR) ~ 8.69 IN

REQUIRED STEEL AREA (STRENGTH REDUCTION FACTOR = 0.9, STEEL YIELD STRENGTH = 60,000 PSI):

A_S = 13,844.4 / (0.9 X 60,000 X 8.69) ~ 0.0295 SQ.IN/FT

MINIMUM REINFORCEMENT (ACI 318-19):

A_S,MIN = 0.0018 X 12 X 12 = 0.2592 SQ.IN/FT

MINIMUM GOVERNS. USE #5 BARS (A_S = 0.31 SQ.IN):

|SPACING = (0.31 / 0.2592) X 12 ~ 14.35 IN

FB-3 : 2 OF 3

ADOPT #5 @ 12" ON CENTER (A_S = 0.31 SQ.IN/FT).

MAX SPACING: $MIN(3 \times 12, 18) = 18 IN. 12" O.C. IS SATISFACTORY.$

STEP 4: SHEAR CHECKS A) ONE-WAY SHEAR AT D = 8.69 IN = 0.724 FT FROM COLUMN FACE:

V_U = 1084.8 X (1 X 0.734) ~ 796.6 LB/FT

PHI V_C = 0.75 X 2 X SQRT(3000) X I2 X 8.69 ~ 8560.5 LB

8560.5 > 796.6 (SATISFACTORY)

B) PUNCHING SHEAR AT D/2 = 4.345 IN, PERIMETER B_0 = 2 X (7 + 8.69) + 2 X (3.5 + 8.69) = 55.76 IN:

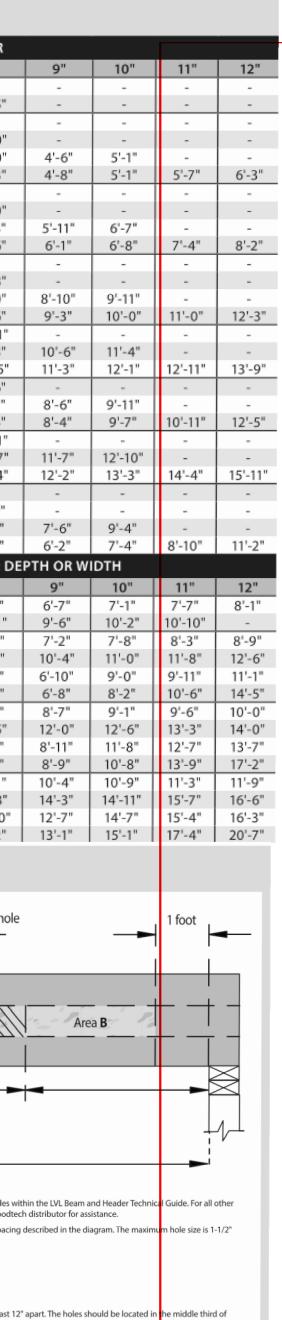
√_U = 1084.8 X (12.25 - 1.328) ~ 11,847.6 LB

PHI V_C = 0.75 X 4 X SQRT(3000) X 55.76 X 8.69 ~ 79,614.7 LB

79,614.7 > 11,847.6 (SATISFACTORY)

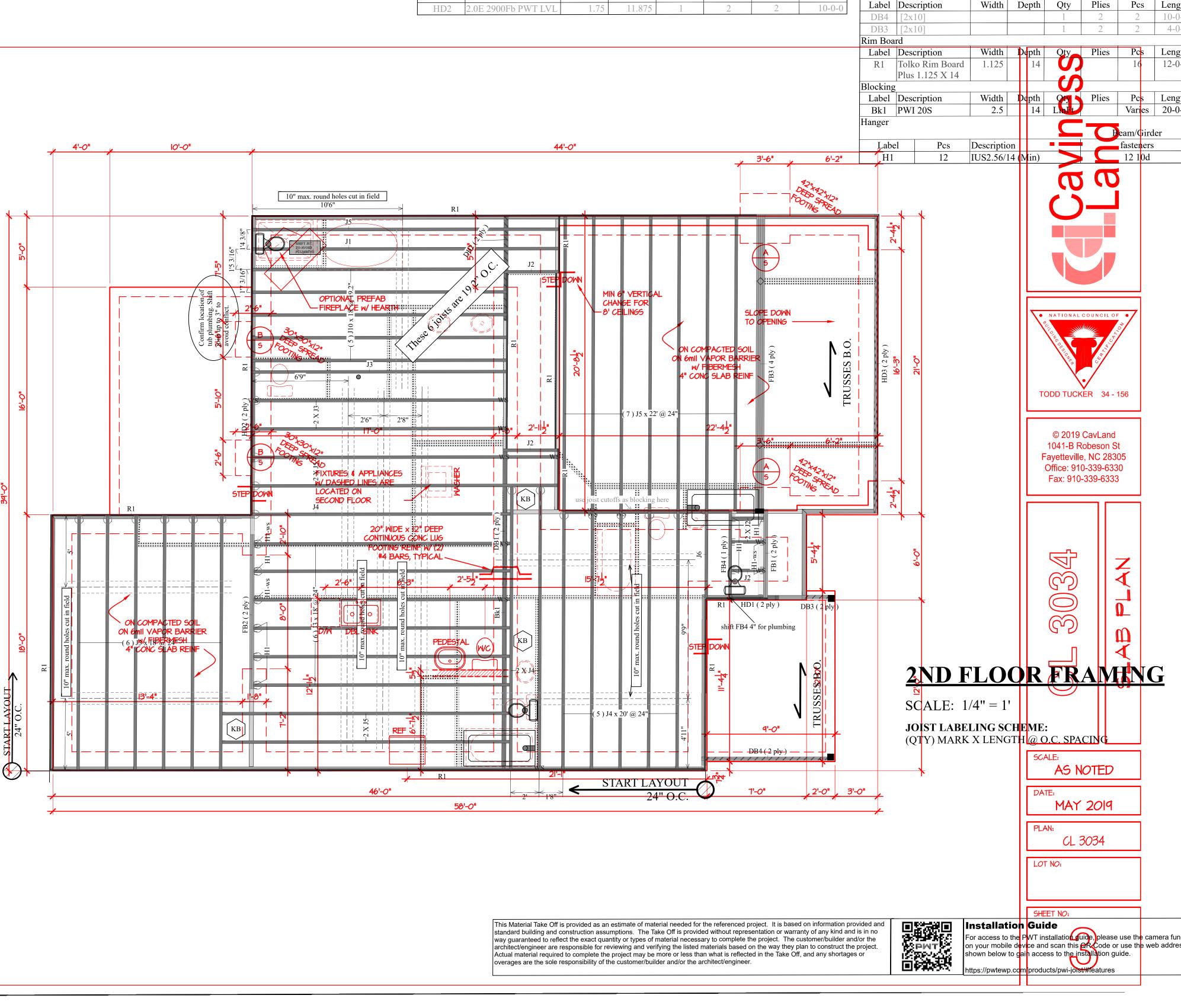
STEP 5: REINFORCEMENT REINFORCEMENT: 5 #5 BARS @ 12" ON CENTER EACH WAY (BOTTOM MAT, TOTAL IO BARS) COVER: 3" CLEAR AT BOTTOM CONCLUSION: THE 42"X42"X12" FOOTING IS ADEQUATE FOR THE 7" X 3.5" COLUMN. PROVIDE 5 #5 BARS @ 12" ON CENTER IN BOTH DIRECTIONS.

FB-3 : 3 OF 3



mid-depth.

n guide, the architectural and structural drawings, and not to replace them.



distance (x) to edge of square or rectangular hole FROM EITHER SUPPORT