

1378

2647

598

97

214

268

=========

Second Floor

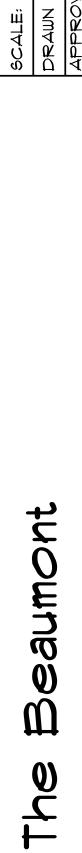
Total Heated

Front Porch

Rear Porch

Opt. Garage

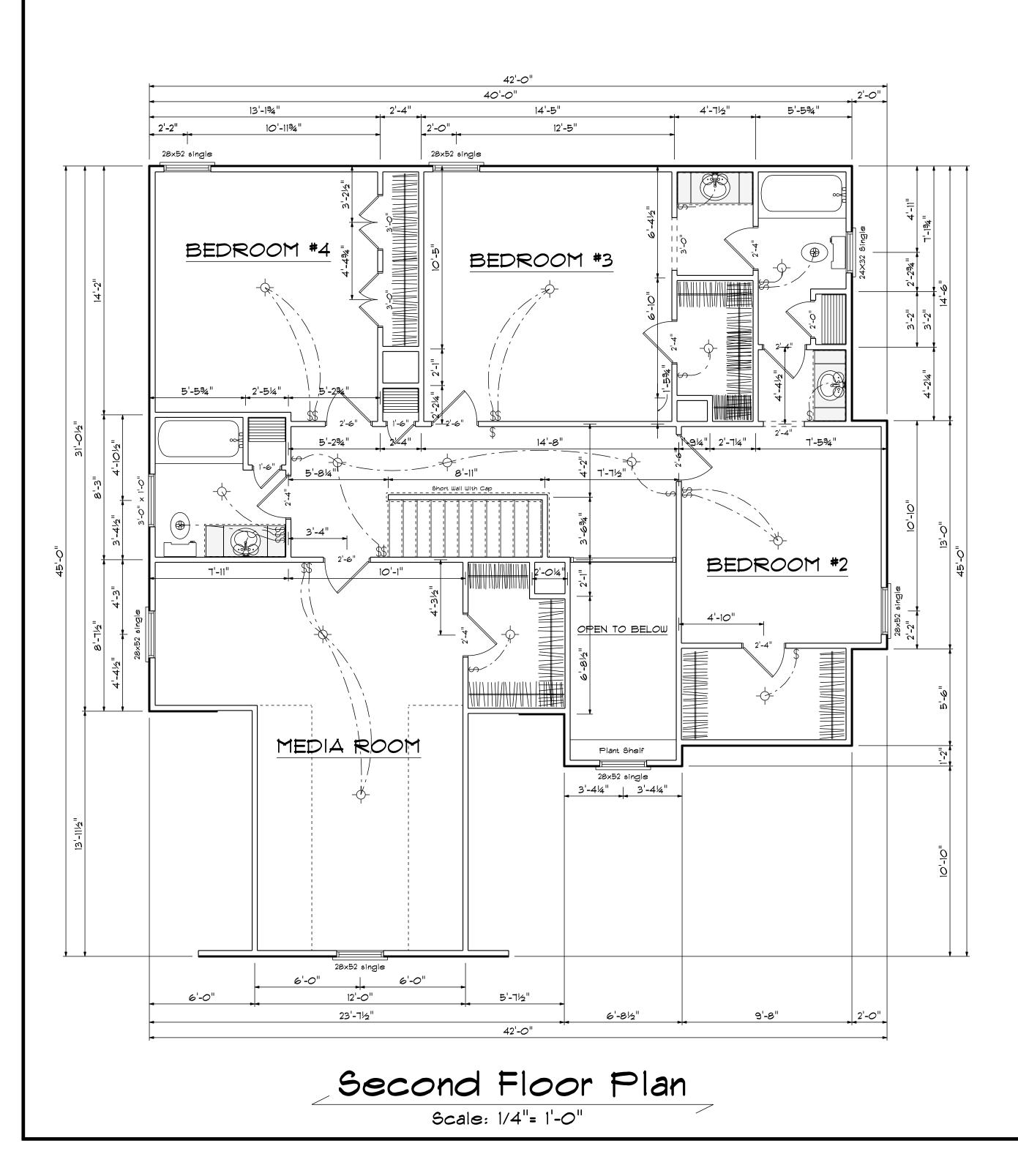
Garage



1/23,

1/4"

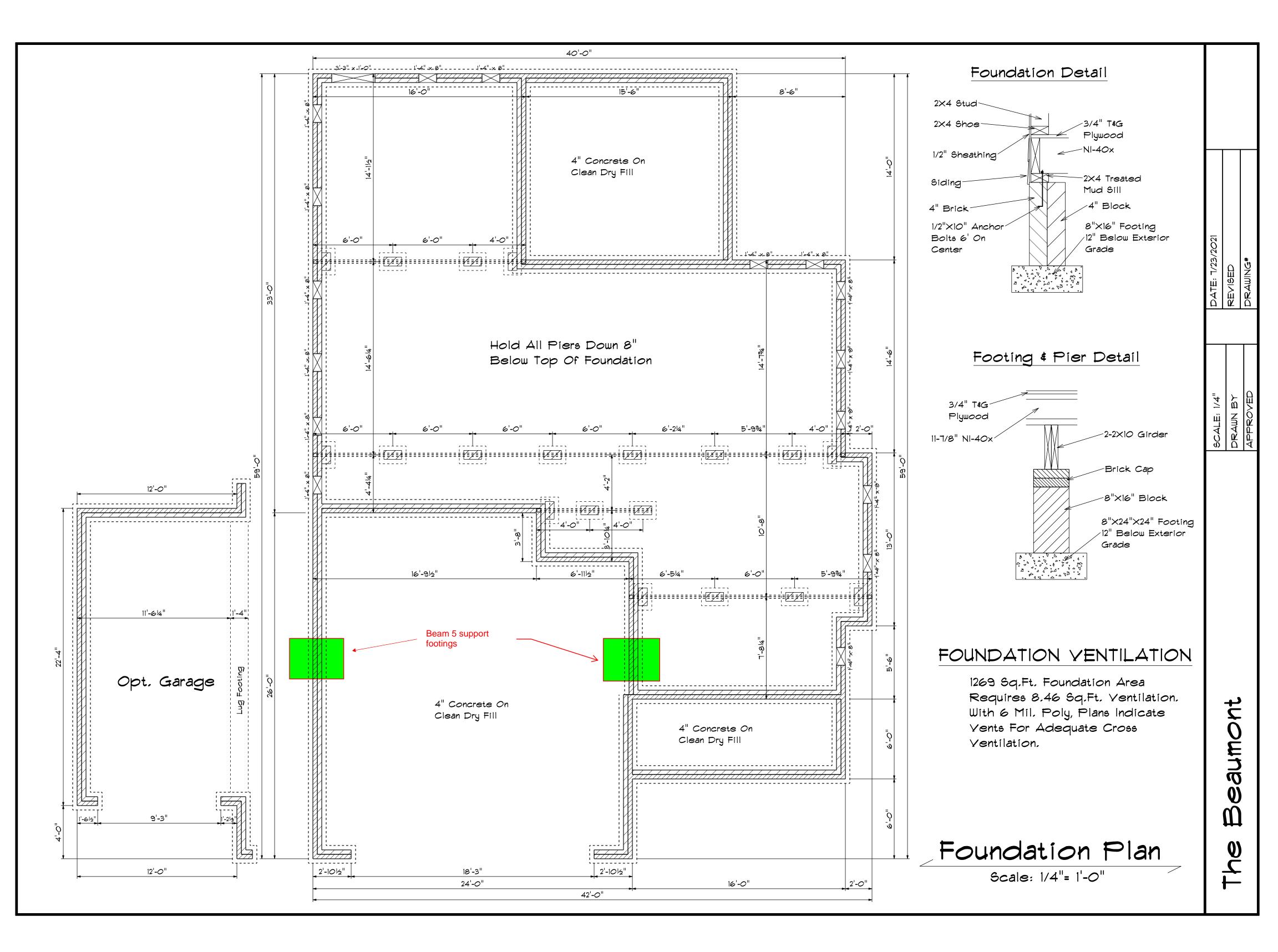
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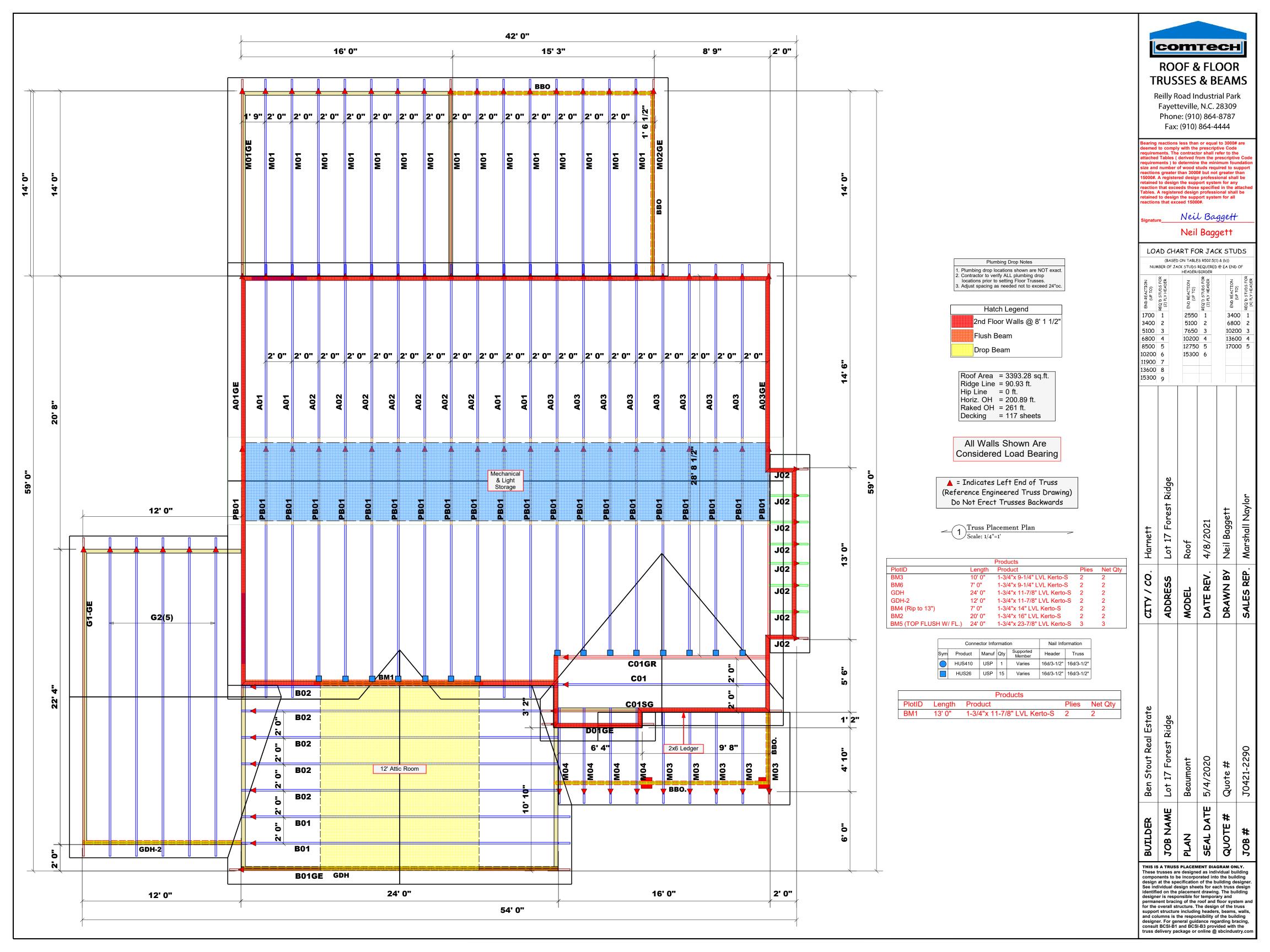


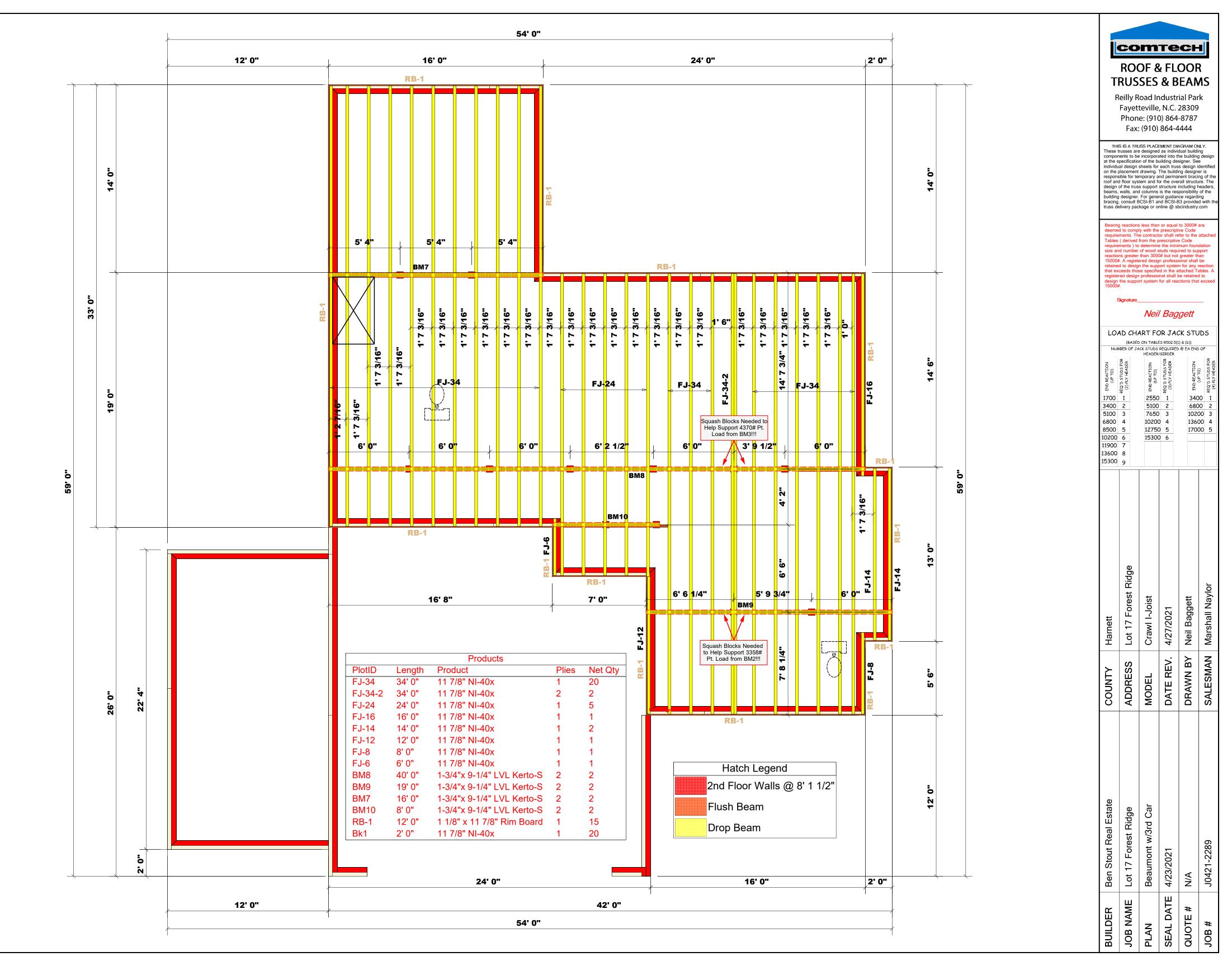
SECOND FLOOR OPENING SCHEDULE								
PRODUCT CODE	SIZE	HINGE	COUNT					
1-6 Door Unit	1'-6"	L	2					
2-0 Door Unit	2'-0"	L	1					
2-4 Door Unit	2'-4"	R	3					
2-4 Door Unit	2'-4"	L	3					
2-6 Door Unit	2'-6"	R	1					
2-6 Door Unit	2'-6"	L	3					
3-0 Doublehung Door Unit	3'-0"	LR	2					
24X32 Single	2'-4" x 3'-2"	N	1					
28x52 single	2'-8" x 5'-2"	N	9					
36X12 TRANSOM	3'-0" x 1'-0"	N	1					

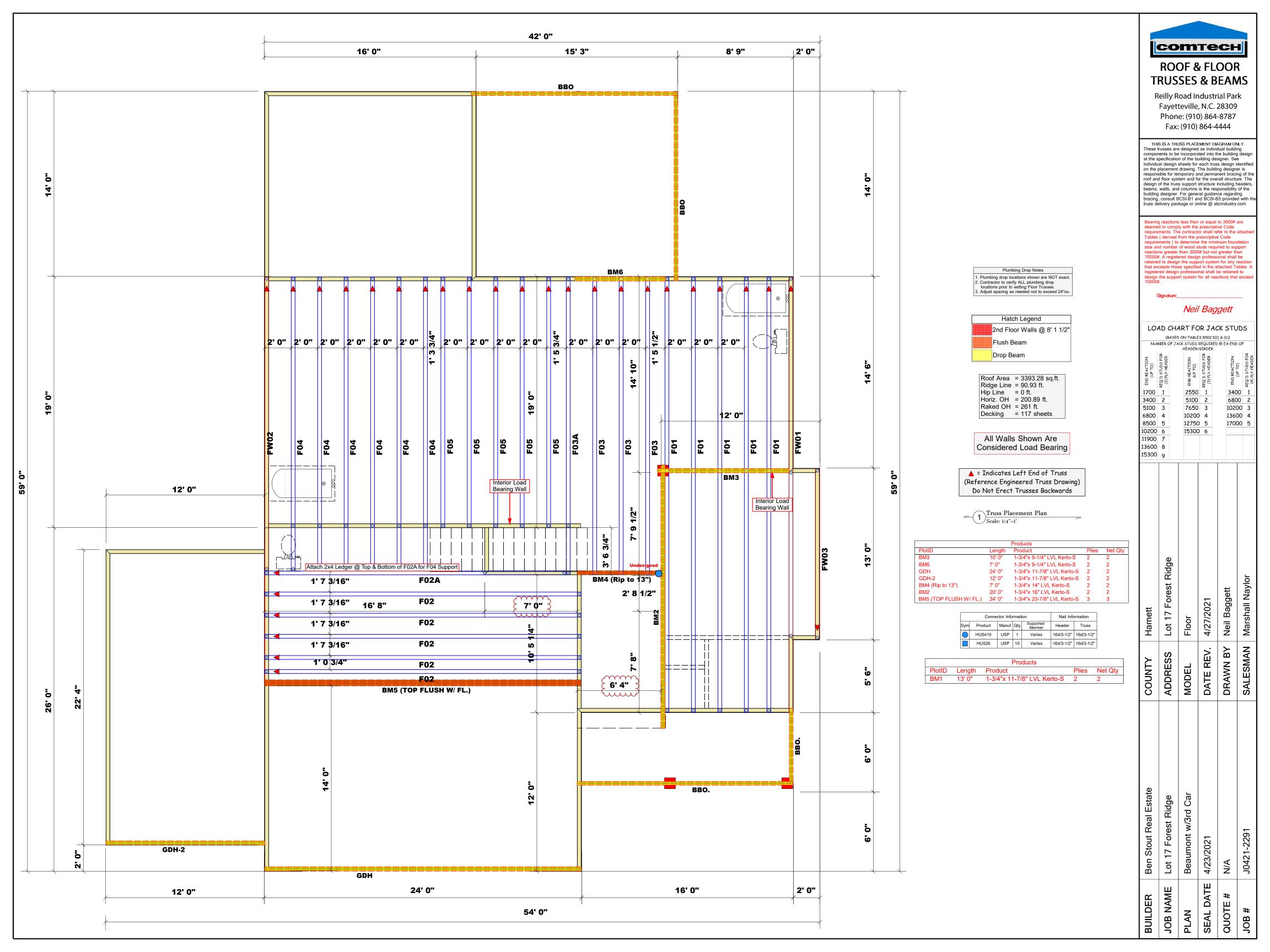


Beaumont 









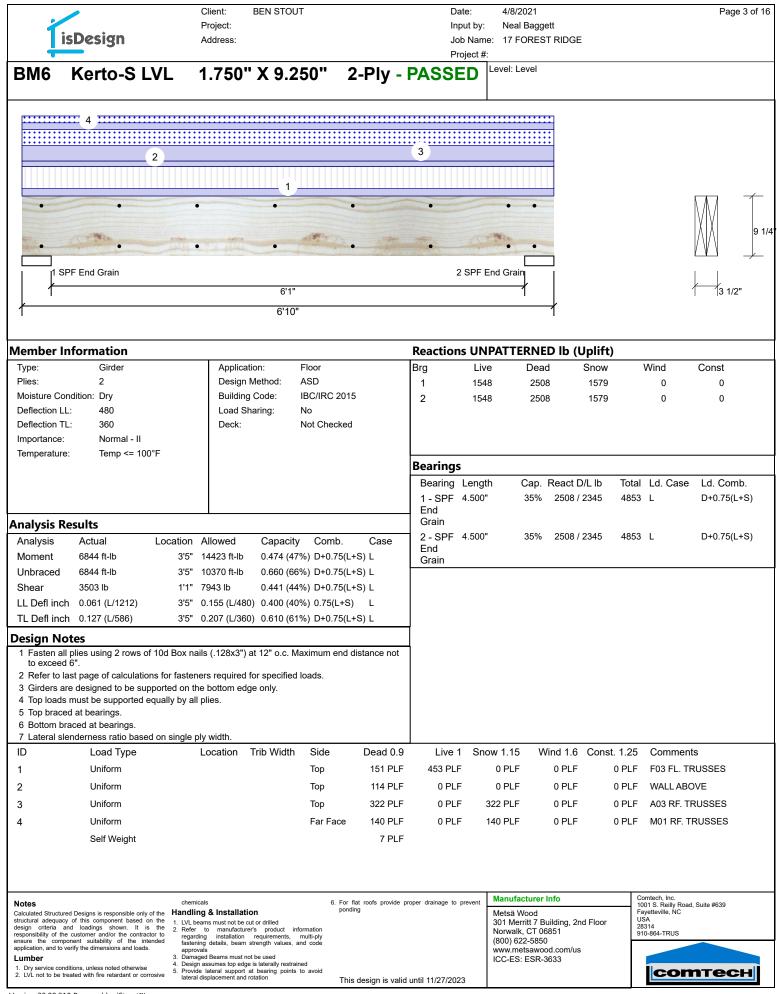
5	avel: Level				1'1"
ns UNP/					1'1"
	ATTERNED				1'1"
	ATTERNEL				1'1"
	ATTERNE				
	ATTERNED				3 1/2"
	ATTERNED				
Live	Dead		-	Wind	Const
1431 1450	510 517	C	D	0	0 0
s					
Length 3.000"	44%	510 / 1431	1941	L	Ld. Comb. D+L D+L
0.000	1070		1001	-	DIE
		nd 1.6 Cons 0 PLF			
1 F	Length 3.000" 3.500" Snow	Length         Cap. I           3.000"         44%           3.500"         18%           Show         18%             Snow         1.15           Wi         0 PLF             vevent         Manufacturer II           Metsä Wood         Metsä Wood	Length         Cap.         React D/L lb           3.000"         44%         510 / 1431           3.500"         18%         517 / 1450             Snow 1.15         Wind 1.6         Con           0 PLF         0 PLF   wevent           Manufacturer Info           Metsä Wood	Length         Cap.         React D/L lb         Total           3.000"         44%         510 / 1431         1941           3.500"         18%         517 / 1450         1967           Snow 1.15         Wind 1.6         Const. 1.25         0 PLF         0 PLF         0 PLF           vevent         Manufacturer Info         0         1         1         1         1	Length         Cap.         React D/L lb         Total         Ld. Case           3.000"         44%         510 / 1431         1941         L           3.500"         18%         517 / 1450         1967         L           Snow         1.8%         517 / 1450         1967         L           Snow         1.15         Wind 1.6         Const. 1.25         Commen           0 PLF         0 PLF         0 PLF         F03 FL. Ti

CSD DESIGN

isDesign	Client: BEN STOUT Project: Address:		Date: 4/8/2021 nput by: Neal Baggett lob Name: 17 FOREST RIDGE Project #:	Page 2 of 16
BM4 Kerto-S L	VL 1.750" X 13.00	0" 2-Ply - PASSE	D Level: Level	
	••••••••••••••••••••••••••••••••••••••	PF End Grain		1'1" 3 1/2"
Multi-Ply Analysis Fasten all plies using 3 rov Capacity	vs of 10d Box nails (.128x3") a	t 12" o.c Maximum end dist	ance not to exceed 6"	
Load Yield Limit per Foot Yield Limit per Fastener Yield Mode Edge Distance Min. End Distance Load Combination Duration Factor	0.0 PLF 245.6 PLF 81.9 lb. IV 1 1/2" 3" 1.00			
Notes	chemicals	6. For flat roofs provide proper drainage l	o prevent Manufacturer Info	Comtech, Inc. 1001 S. Relily Road, Suite #639
Notes Calculated Structured Designs is responsible onl structural adequacy of this component based design criteria and loadings shown. It responsibility of the customer and/or the contra ensure the component suitability of the in application, and to verify the dimensions and load	y of the Handling & Installation on the 1. LVL beams must not be cut or drilled is the 2. Refer to manufacturer's product info regarding installation requirements, or featening details beam eterandt velues an	ponding prmation multi-ply	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us	1001 S. Kelliy Koad, Suite #639 Fayettevelle, NC USA 28314 910-864-TRUS

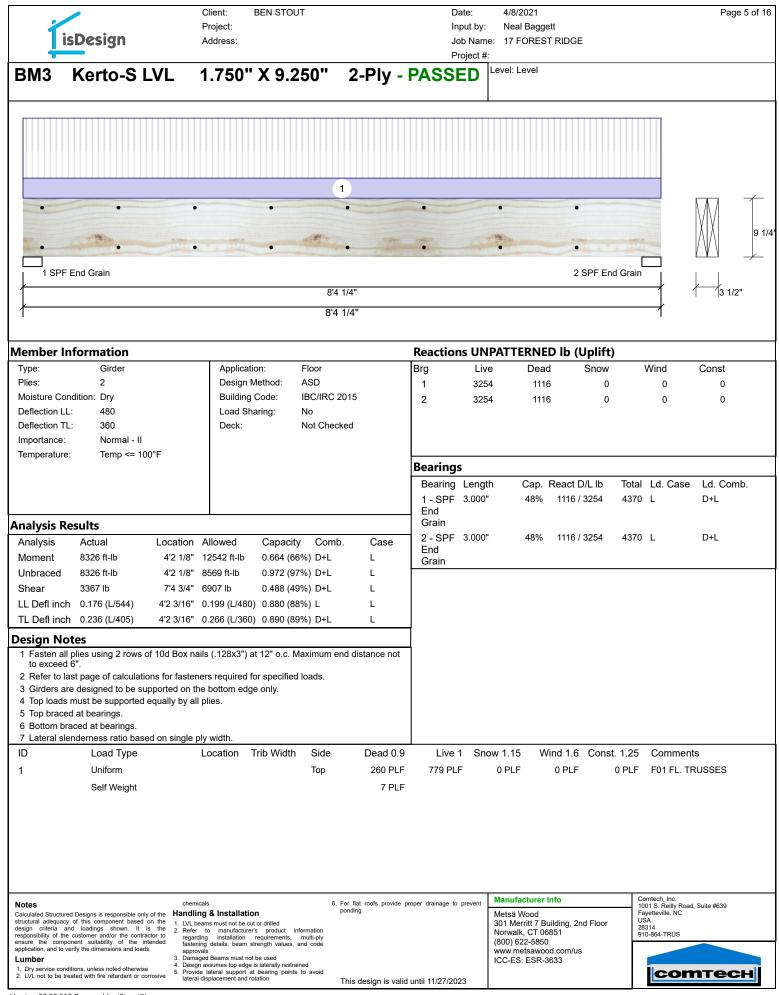
responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise	LVL beams must not be cut or drilled     Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals     Damaged Beams must not be used     Design assumes top edge is laterally restrained     S. Provide lateral support at bearing points to avoid	<ol> <li>For flat roofs provide proper drainage to prevent ponding</li> </ol>	Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633	Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS
2. LVL not to be treated with fire retardant or corrosive	lateral displacement and rotation	This design is valid until 11/27/2023		сотесн
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CSD DESIGN



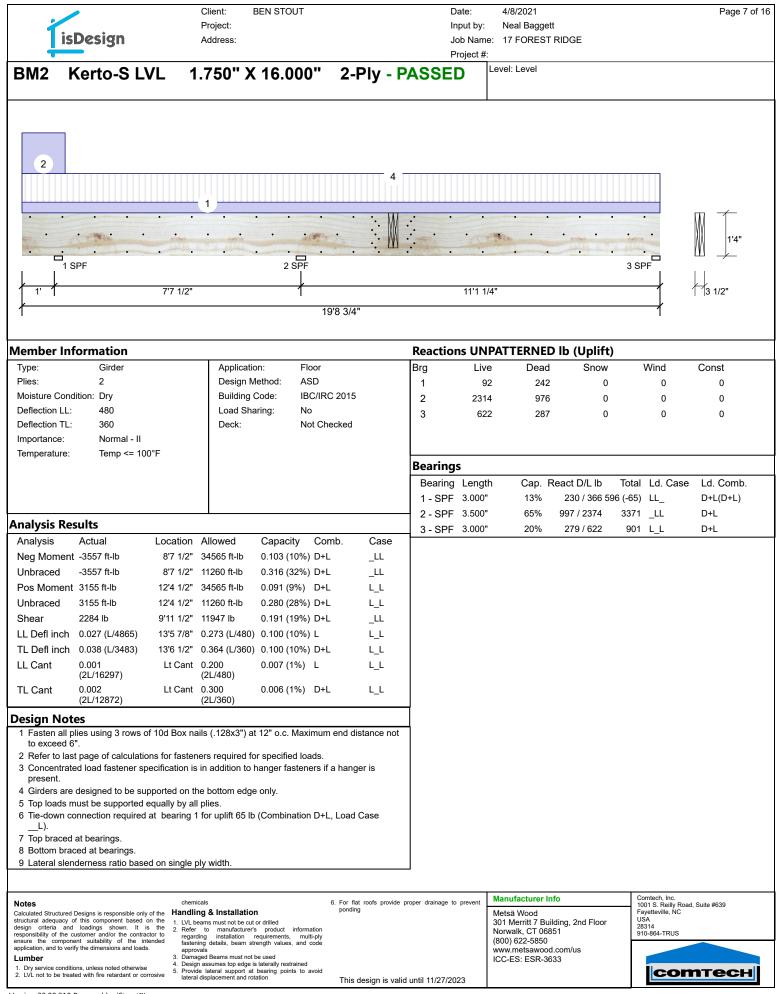
	Client: BEN STOUT	Date:	4/8/2021	Page 4 of 16
	Project:	Input by:		
isDesign	Address:		e: 17 FOREST RIDGE	
	,	Project #		
DMC Karta O LV/	4 750" V 0 050"		Level: Level	
BM6 Kerto-S LVL	1.750° X 9.250°	2-Ply - PASSED		
• •	• •	• •	2ª • •	$\Lambda \Lambda \Lambda$
			< 11/2"	9 1/2
•	• •	• •	• • <del>                                  </del>	
			<del></del>	
1 SPF End Grain		2 SPF I	End Grain	
/ / <i>/</i>	6'1"		/	3 1/2"
				0 1/2
1	6'10"		1	
Multi-Ply Analysis				
Fasten all plies using 2 rows of 10		o.c Maximum end distance n	ot to exceed 6"	
Capacity 74.4 %				
Load 140.0 Yield Limit per Foot 188.3				
Yield Limit per Fastener 94.1 lb				
Yield Mode IV				
Edge Distance 1 1/2"				
Min. End Distance 3" Load Combination D+S				
Duration Factor 1.15				
	chemicals	6. For flat roofs provide proper drainage to prevent ponding	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the 1. L	ndling & Installation	portung	Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria and loadings shown. It is the 2. F responsibility of the customer and/or the contractor to	Refer to manufacturer's product information regarding installation requirements, multi-ply		Norwalk, CT 06851	28314 910-864-TRUS
application, and to verify the dimensions and loads.	astening details, beam strength values, and code approvals		(800) 622-5850 www.metsawood.com/us	
Lumber 3. [ 4. [	Damaged Beams must not be used Design assumes top edge is laterally restrained		ICC-ES: ESR-3633	
	Provide lateral support at bearing points to avoid ateral displacement and rotation	This design is valid until 11/27/2023		соттесн

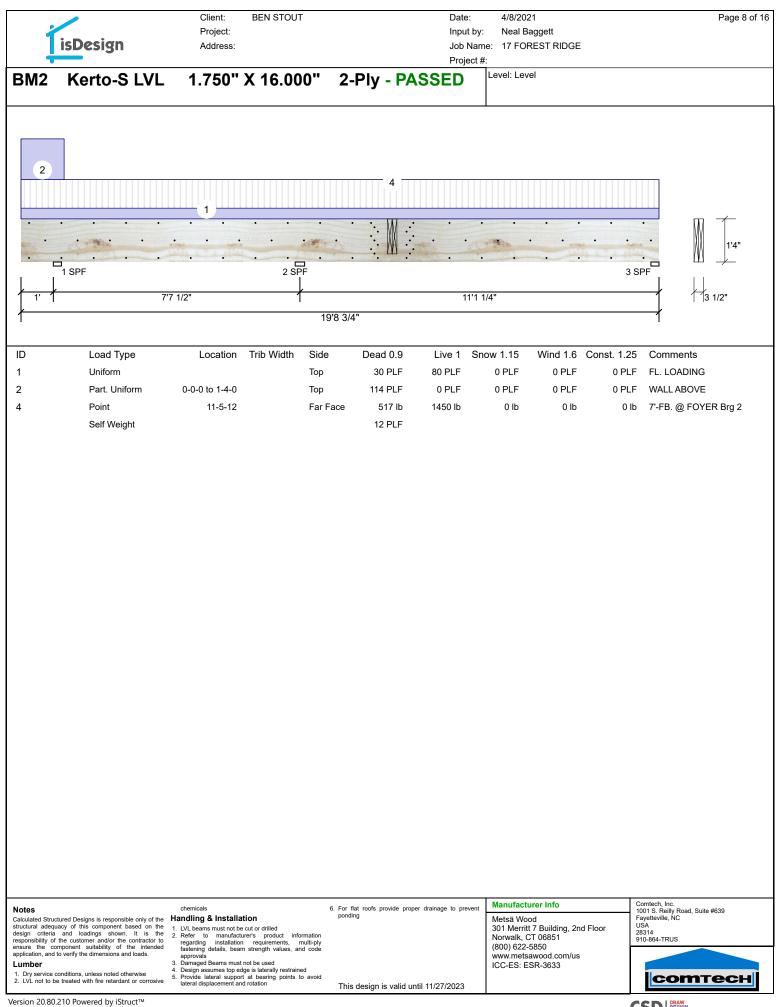
Version 20.80.210 Powered by iStruct™



Version 20.80.210 Powered by iStruct™

Visite     Project     Project     Project       BM3     Kerto-S LVL     1.750" X 9.250"     2-Ply - PASSED     Intel Lord         Image: Status     1.8750" X 9.250"     2-Ply - PASSED     Intel Lord         Image: Status     1.8750" X 9.250"     2-Ply - PASSED     Intel Lord         Image: Status     1.8750" X 9.250"     2-Ply - PASSED     Intel Lord         Image: Status     1.8750" X 9.250"     2-Ply - PASSED     Intel Lord         Image: Status     1.8750" X 9.250"     2-Ply - PASSED     Intel Lord         Image: Status     1.8750" X 9.250"     2-Ply - PASSED     Image: Status         Image: Status     1.8750" X 9.250"     2-Ply - PASSED     Image: Status         Image: Status     1.8750" X 9.250"     2-Ply - PASSED     Image: Status         Image: Status     1.80"     Image: Status     Image: Status         Image: Status     1.80"		-		Client:	BEN STOUT		Date:	4/8/2021		Page 6 of 16
New     Analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°       Careby analysis       Rates and piece view of 10d Box naiks (128:37) at 12° o.c. Maximum end distance not to exceed 6°	4						Input b			
BM3         Kerto-S LVL         1.750" X 9.250"         2-Pily - PASSED         Level Low           I SPE End Gain		isDesign		Address:					IDGE	
Division     Netrobusto     Control     Contro     Control     Control     Control <th></th>										
Note:	BM3	Kerto-S L	_VL '	1.750"	X 9.250"	2-Ply	- PASSED	Level: Level		
Nem     Nem <th></th> <th></th> <th></th> <th></th> <th></th> <th>-</th> <th></th> <th></th> <th></th> <th></th>						-				
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Resten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not to exceed 6"         Coperaty       0.0 PLF         Valid import factore       0.0 PLF         Valid Moder       V         Egg Distance       11/2"         Mix. End Delatione       3"         Land Combuston       100         Valid Moder       100         Part factore       100         * 10 Marketser rate       Manufactore rate         Maximum end distance not to exceed 6"       Compared         Compared       100         * 100       * 100         * 100       * 100         * 100       * 100         * 100       * 100         * 100       * 100         * 100       * 100         * 100       * 100         * 100       * 100         * 100       * 100		-	-		-	-	-	-	-	
Multi-Ply Analysis         Easten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6"         Capacity       0.0%         Multi-Ply Analysis         Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c Maximum end distance not to exceed 6"         Capacity       0.0%         Web Limit per Foot       103.7 PLF         Yeb Limit per Foot       103.7 PLF         Web Limit per Foot       103.7 PLF         Web Limit per Foot       100         Mix Ed Oblance       3"         Load Combination       3"         Junation Factor       1.00	1 SF	PF End Grain							2 SPF End Grai	in
Multi-Ply Analysis         Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not to exceed 6"         Capacity       0.0 %         Load       0.0 PLF         Yield Ling Per Southers       01.9 %         Yield Ling Per Southers       01.9 %         Value Ling Per Southers       01.0 %						8'4 1/4"				3 1/2"
Multi-Ply Analysis         Fasten all plies using 2 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not to exceed 6"         Capacity       0.0 %         Load       0.0 PLF         Yield Ling Per Southers       01.9 %         Yield Ling Per Southers       01.9 %         Value Ling Per Southers       01.0 %	<u> </u>					8'4 1/4"				
Astern all plies using 2 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not to exceed 6"         Capacity       0.0%         Kold       0.0%         Well Ling per Foot       103 / PLF         Well Ling per Foot       103 / PLF         Well Ling per Foot       102         Min. End Dutance       3"         Load Corrolation       100         Dutation Factor       100	I					0 - 11 -				I
Astern all plies using 2 rows of 10d Box nails (128x3") at 12" o.c. Maximum end distance not to exceed 6"         Capacity       0.0%         Kold       0.0%         Well Ling per Foot       103 / PLF         Well Ling per Foot       103 / PLF         Well Ling per Foot       102         Min. End Dutance       3"         Load Corrolation       100         Dutation Factor       100										
Capacity 0.0 % Load 0.0 PUF Weld Lunt per Foot 163.7 PUF Weld Lunt per Foot 31.9 lb. Weld Mode V Early Distance 3° Land Combination Duration Factor 1.00 Notes Netter Hermitian Production Producting Producting Production	-									
Land		l plies using 2 row		Box nails (.	128x3") at 12"	o.c Maximu	m end distance	not to exceed 6	5"	
Yeak Link per Foot       163.7 PLF         Yeak Link per Footer       13.9 B.         Yeak Mode       V         Edge Datance       3'         Lad Combination       3'         Duration Factor       1.00										
Yield Made       IV         Edge Distance       11/2*         Min. End Distance       3*         Load Combination       ************************************		er Foot								
Vield Mode       IV         Edge Distance       3*         Lad Combination       3*         Duration Factor       1.00										
Mun. End Distance 3° Lad Combination Duration Factor 100 Note: Souther disease reporting with the combination of the combin	Yield Mode									
Lond Combination Duration Factor 100 Network States and and states and and the source of the source										
Duration Factor     1.00       Note        • For the independence proper damage to prove • For the independence prove damage to prove difference • For the independence prove damage to prove • For the independence prove damage to prove difference • For the independence prove damage to prove dindependence • For th			3"							
Notes         demais         4. For full node powle pager damage to prever panding         Manufacturer Info         Control of the panding of			1.00							
Notes       chemicals       c. Por that roots provide proper dramage to prevent ponding       1001 S. Relily Road, Suite #639         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 culterent and/or the contractor to ensure the component suitability of the culterent and to verify the dimensions and loads.       I.VL Deams must not be cut or drilled       Metsä Wood       301 Merritt 7 Building, 2nd Floor       Values, 28314         1. by service conditions, unless noted otherwise       3. Damaged Beams must not be used       Banged Beams must not be used         2. by not to be tracted with fire erlaration or corresive       3. Damaged Beams must not be used       Banged Beams must not be used       Banged Beams must not be used       Banged Beams must not be used         3. Un not to be tracted with fire relaration or corresive       3. Damaged Beams must not be used       Banged Beams must not be used         3. Un not to be tracted with fire relaration or corresive       Banged Beams must not be used         3. Un not to be tracted with fire relarated nor corresive										
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design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to responsibility of the customer and/or the contractor to ensure the component suitability of the installation requirements, multi-ply fastening details, beam strength values, and code application, and to verify the dimensions and loads.       2. Refer to manufacturer's product information requirements, multi-ply fastening details, beam strength values, and code application, and to verify the dimensions and loads.       Norwalk, CT 06851 (800) 622-5850 (800) 622-5850 (800) (800) 622-5850 (800) (800) 622-5850 (800) (800) 622-5850 (800)	structural adequ	uacy of this component based (	on the 1 IVI he			ponding				USA
ensure the component suitability of the intended application, and to verify the dimensions and loads. Lumber 1. Dry service conditions, unless noted otherwise 2. LVI, not be treaded with fire relaration or corrisping 5. Provide lateral yreparts to avoid 5. Provide lateral yreparts to avoid 5. Provide lateral yreparts to avoid	design criteria responsibility of	and loadings shown. It is f the customer and/or the contra	s the 2. Refer ctor to regardi	to manufacturer ing installation	's product information requirements, multi-ply			Norwalk, CT 06851		28314 910-864-TRUS
1. Dry service conditions, unless noted otherwise     1. Ury service conditions, unless noted otherwise     1. Ury not to be treated with fire relardant or correspic     5. Provide laterall support at bearing points to avoid     Commence	application, and	to verify the dimensions and loads	s. approv	ng details, beam s als	trength values, and code			www.metsawood.c		
2 IVI not to be treated with fire retardant or corrosive	1. Dry service of	conditions, unless noted otherwise	4. Design 5. Provide	assumes top edge	is laterally restrained			ICC-ES: ESR-3633	3	
	2. LVL not to b	be treated with fire retardant or co		displacement and ro	tation	This design is v	alid until 11/27/2023			COMIECH





Í	isDesign	Client: BEN STOUT Project: Address:	Date: Input by: Job Name: Project #:	4/8/2021 Neal Baggett 17 FOREST RIDGE	Page 9 of 16
BM2	Kerto-S LVL	1.750" X 16.000"		evel: Level	
			1		
· .	· · · · ·			· · · · · · · · · · · · · · · · · · ·	1'4"
	1 SPF 7'7 1		9'8 3/4"	L L	3 1/2"

## Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Maximum end distance not to exceed 6"

Maximum cha distance	
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
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 11-5-12 with a minimum of (18) – 10d Box nails (.128x3") in the

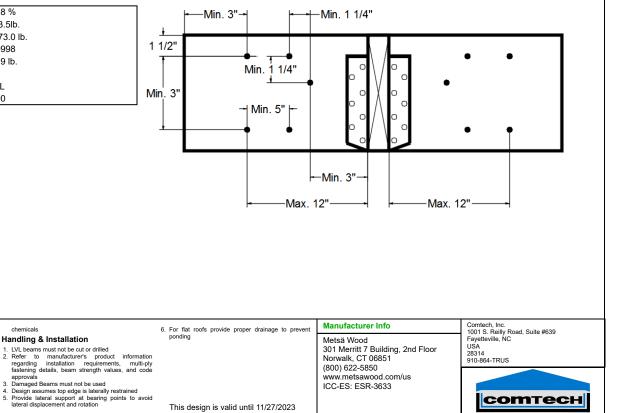
pattern shown

puttern snown.	
Capacity	66.8 %
Load	983.5lb.
Total Yield Limit	1473.0 lb.
Cg	0.9998
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Load Combination	D+L
Duration Factor	1.00

chemicals

5.

## Min/Max fastener distances for Concentrated Side Loads



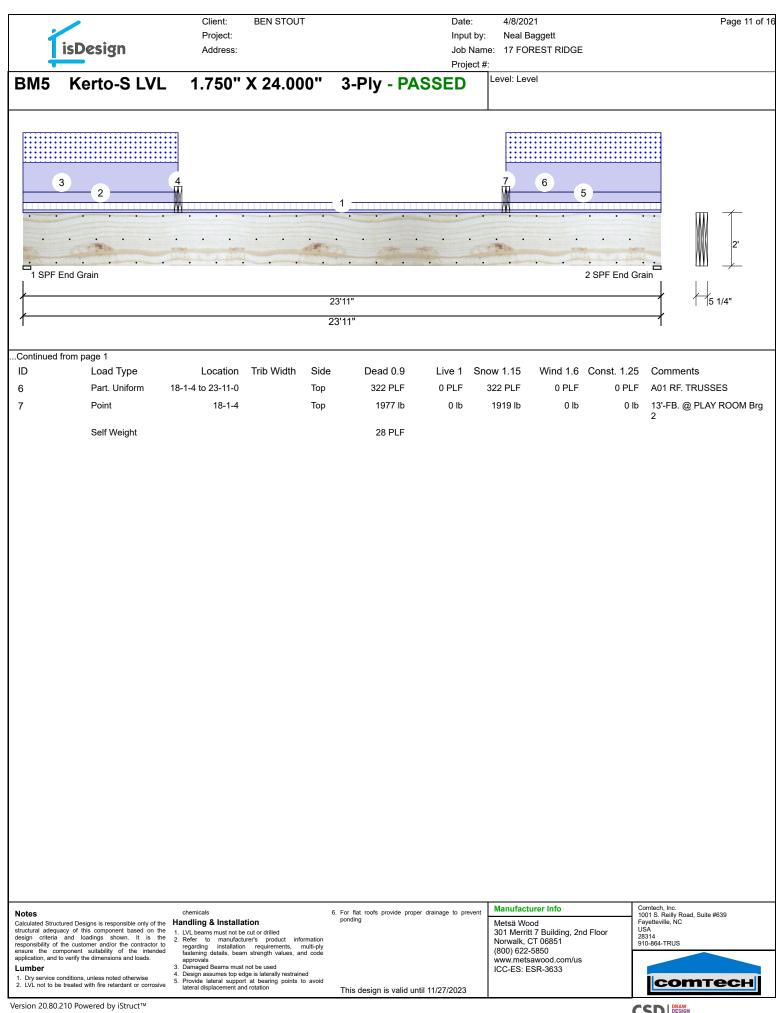
Notes
Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.
Learning and the second s

Lumber

Version 20.80.210 Powered by iStruct™

1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive

		Client: BEN	STOUT		Da	ate:	4/8/2021				Page 10 c
7		Project:					Neal Bagge	ett			
	isDesign	Address:					17 FORES	T RIDGE			
BM5	Kerto-S LVL	1.750" X 2	4 000"			oject #: Lev	el: Level				
DIVIJ	Rento-3 LVL	1.750 A Z	+.000 3	<b>D-FIY - F</b>	ASSEL	,					
3	3	4					<u>7</u> 6				
	2	M	1				M	5			
•					• •		<u>יי</u> .		•	•	$\square$ 1
-			140	• •			•		·		2'
		and the second second second	and the second		and the second			- Philade			
1 SPF E	End Grain							2 SPF	End Gra	ain	
<u>}</u>			23'1	1"						$\rightarrow$	5 1/4"
/			23'1	1"						$\rightarrow$	
/lember	Information				Reaction	s UNPA	TTERNE	D lb (Uplift	)		
Туре:	Girder	Application:	Floor		Brg	Live	Dead			Wind	Const
Plies: Moisture Co	3 ondition: Dry	Design Metho Building Code		15	1	957	520			0	0
Deflection L	•	Load Sharing			2	957	520	5 3791		0	0
Deflection 7		Deck:	Not Checke	ed							
Importance Temperatur											
					Bearings						
					Bearing	-	•	React D/L lb		Ld. Case	
					1 - SPF End	3.500"	56%	5205 / 3791	8996	L	D+S
nalysis F	Results				Grain	2 500"	E60/	EDDE / 2704	0000		Die
Analysis Moment			pacity Comb.	Case	2 - SPF End	3.500	56%	5205 / 3791	8996	L	D+S
Unbraced		'11 1/2'' 37957 ft-lb 0.2	88 (29%) D+0.75 97 D+0.75	. ,	Grain						
Ohaan	7405 1 0	•	0%)								
Shear		1'8 3/8" 30912 lb 0.2 1 9/16" 0.587 (L/480) 0.2	32 (23%) D+S 70 (27%) S	L							
		1 9/16" 0.783 (L/360) 0.4	. ,	L							
esign N	lotes				1						
1 Fasten a to excee		d Box nails (.128x3") at 12"	o.c. Maximum en	d distance not	]						
	1 0	or fasteners required for sp									
	are designed to be suppor is must be supported equa	ted on the bottom edge onl ally by all plies.	y.								
	st be laterally braced at a n braced at bearings.	naximum of 7'1 1/8" o.c.									
	slenderness ratio based or										
ID 4	Load Type	Location Trib		Dead 0.9	Live 1			ind 1.6 Cons		Commen	
1 2	Uniform Part. Uniform	0-0-0 to 5-9-12	Тор Тор	30 PLF 114 PLF	80 PLF 0 PLF		PLF PLF	0 PLF 0 PLF	0 PLF 0 PLF	FL. LOAD	
2	Part. Uniform	0-0-0 to 5-9-12	Тор	322 PLF	0 PLF		PLF	0 PLF	0 PLF	A01 RF. T	
4	Point	5-9-12	Тор	1977 lb	0 It		19 lb	0 lb	0 lb		PLAY ROOM Br
-			·		~ <del>-</del>				0.01-	1	
5 ontinued on	Part. Uniform	18-1-4 to 23-11-0	Тор	114 PLF	0 PLF	- 0	PLF	0 PLF	0 PLF	WALL AB	JVE
	·										
Notes Calculated Structu	ured Designs is responsible only of the	chemicals Handling & Installation	6. Fo	or flat roofs provide pr onding	roper drainage to	prevent	anufacturer etsä Wood	Info	10	omtech, Inc. )01 S. Reilly Roa ayetteville, NC	d, Suite #639
structural adequa design criteria	acy of this component based on the and loadings shown. It is the	1. LVL beams must not be cut or drill 2. Refer to manufacturer's pro	duct information			30		uilding, 2nd Floor 851	28	SA 3314 10-864-TRUS	
ensure the com	the customer and/or the contractor to nponent suitability of the intended o verify the dimensions and loads.	fastening details, beam strength approvals	values, and code			(80	00) 622-5850 ww.metsawoo	1	3		
	onditions, unless noted otherwise	<ol> <li>Damaged Beams must not be use</li> <li>Design assumes top edge is latera</li> <li>Provide lateral support at bearing</li> </ol>	Ily restrained				C-ES: ESR-3				птесн
<ol> <li>LVL not to be</li> </ol>	treated with fire retardant or corrosive	lateral displacement and rotation		his design is valid	until 11/27/202	3					



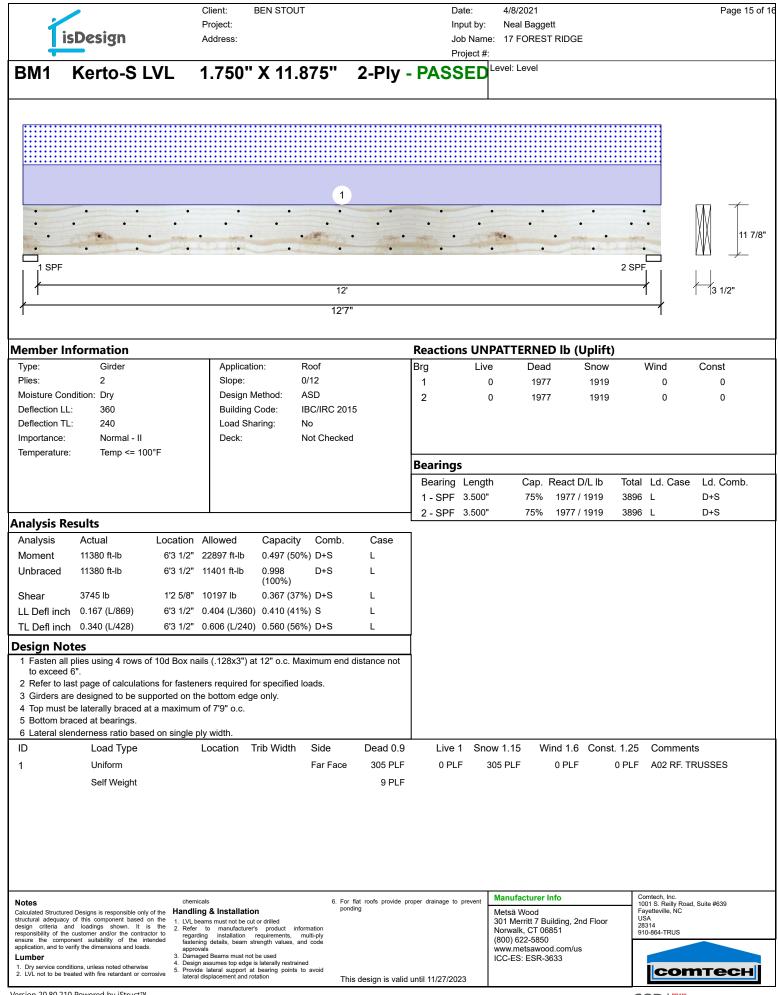
isDesign	Client: BEN STOUT Project: Address:	Date: 4/8/2021 Input by: Neal Baggett Job Name: 17 FOREST RIDGE Project #:	Page 12 of 10
BM5 Kerto-S L	/L 1.750" X 24.000"	3-Ply - PASSED	
	Ŵ	M	
	· · · · · · · · ·		
1 SPF End Grain		2 SPF End	
	2	23'11"	5 1/4"
/	2	23'11"	
Multi-Ply Analysis Fasten all plies using 3 row 6"	rs of 10d Box nails (.128x3") at 12" o	o.c Nail from both sides. Maximum end distance not to	exceed

0	
Capacity	0.0 %
Load	0.0 PLF
Yield Limit per Foot	245.6 PLF
Yield Limit per Fastener	81.9 lb.
Yield Mode	IV
Edge Distance	1 1/2"
Min. End Distance	3"
Load Combination	
Duration Factor	1.00

6. For flat roofs provide proper drainage to prevent	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
y	Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851	Fayetteville, NC USA 28314 910-864-TRUS
e	www.metsawood.com/us ICC-ES: ESR-3633	
<sup>d</sup> This design is valid until 11/27/2023		соттесн
	ponding	b. For har roots provide proper drainage to prevent ponding Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633

	sDesign		ldress:			Pro	oject #:	7 FOREST	RIDGE			
GDH	Kerto-S L\	/L 1.7	750" X 11.8	75" 2-P	ly - P	ASSED	Leve	el: Level				
	•	· ·	•	1		-	• •	•	•	•		m <del>1</del>
1 SPF E	ind Grain	- Pine		AN TO THE OWNER	at .				2 SPF I	End Grai	in I	11 7/8'
†				18'3"							┦	3 1/2"
1				19'							1	
ombor le	nformation					Reaction		TEDNICO	lb (Uplift	•)		
ype:	Girder		Application:	Floor		Brg	Live	Dead	Snow		Wind	Const
Plies: Acisturo Cor	2 adition: Dr/		Design Method:	ASD		1	0	2016	0		0	0
loisture Cor	ndition: Dry _: 480		Building Code: Load Sharing:	IBC/IRC 2015 No		2	0	2016	0		0	0
eflection TL			Deck:	Not Checked								
mportance: emperature	Normal - II :: Temp <= 100	°F										
perature	. ionp <= 100					Bearings						
						Bearing 1 - SPF End		Cap. R 15%	eact D/L lb 2016 / 0	Total 2016	Ld. Case Uniform	Ld. Comb. D
nalysis Ro	esults					Grain	4 500"	4501	0040 / 0	0010	1 Jun 14 - 1	D
nalysis Iomont	Actual	Location Al		5	Case	2 - SPF End	4.300"	15%	2016 / 0	2016	Uniform	D
<i>l</i> loment Jnbraced	8957 ft-lb 8957 ft-lb		919 ft-lb 0.500 (5 66 ft-lb 0.999	-	Uniform Uniform	Grain						
Shear	1740 lb	17'8 3/8" 79	(100%)		Uniform							
	ין 0.000 (L/999)		9.000 (L/0) 0.000 (0		Uniionn							
L Defl inch	ם 0.582 (L/379)	9'6 1/16" 0.6	612 (L/360) 0.950 (9	5%) D	Uniform							
esign No												
	plies using 2 rows of 6".	10d Box nails	(.128x3") at 12" o.c. I	Maximum end dista	ance not							
	ast page of calculation		required for specified	d loads.								
1 Fasten all to exceed 2 Refer to la			es.									
Fasten all to exceed Refer to la Girders ar Top loads	re designed to be sup must be supported e											
Fasten all to exceed Refer to la Girders ar Top loads Top must	e designed to be sup		104 1/8 0.0.									
Fasten all to exceed Refer to la Girders ar Top loads Top must l Bottom br Lateral sle	re designed to be sup must be supported e be laterally braced at aced at bearings. enderness ratio based	a maximum of	width.				Spour 4	15 \\/;	d16 Corr	+ 1 05	Commer	te
<ol> <li>Fasten all to exceed</li> <li>Refer to la</li> <li>Girders ar</li> <li>Top loads</li> <li>Top must la</li> <li>Bottom brack</li> </ol>	e designed to be sup must be supported e be laterally braced at aced at bearings.	a maximum of			Dead 0.9 203 PLF	Live 1 0 PLF			d 1.6 Cons 0 PLF	st. 1.25 0 PLF	Commen END WAL	ts L / GABLE

Í	isDesign	Client: BEN STOUT Project: Address:	Date: Input b Job Na Project	me: 17 FOREST RIDGE	Page 14 of
GDH	Kerto-S LVL	1.750" X 11.875"	2-Ply - PASSED	Level: Level	
	· · · ·	· · · ·	· · · · ·	· · · ·	
1 SPF	End Grain			2 SPF End	I Grain //
			18'3"		<b>1 1 3</b> 1/2"
1			19'		1
Multi-Ply	/ Analysis				
		f 10d Box nails (.128x3") at 12"	o.c Maximum end distance	not to exceed 6"	
Capacity Load	0.	0 % 0 PLF			
Yield Limit pe	er Foot 16	3.7 PLF			
Yield Limit pe Yield Mode	er Fastener 81 IV	.9 lb.			
Edge Distand		1/2"			
Min. End Dis Load Combir					
Duration Fac		00			
Notes		chemicals	6. For flat roofs provide proper drainage to preven	Manufacturer Info	Comtech, Inc. 1001 S. Reilly Road, Suite #639
Calculated Struct structural adequation	tured Designs is responsible only of the acy of this component based on the	Handling & Installation	ponding	Metsä Wood 301 Merritt 7 Building, 2nd Floor	Fayetteville, NC USA
design criteria responsibility of	and loadings shown. It is the the customer and/or the contractor to	<ol> <li>Refer to manufacturer's product information regarding installation requirements multi-nly</li> </ol>		Norwalk, CT 06851	28314 910-864-TRUS
ensure the cor application, and t	mponent suitability of the intended to verify the dimensions and loads.	fastening details, beam strength values, and code approvals		(800) 622-5850 www.metsawood.com/us	
	onditions, unless noted otherwise	2. Damaged Beams must not be used     4. Design assumes top edge is laterally restrained     5. Provide lateral support at bearing points to avoid		ICC-ES: ESR-3633	
	e treated with fire retardant or corrosive	<ol> <li>Provide lateral support at bearing points to avoid lateral displacement and rotation</li> </ol>	This design is valid until 11/27/2023		соттесн



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IsDesignBM1Kerto-S LVL	Project: Address: 1.750" X 11.875	5" 2-Ply - P	Project #:	Neal Baggett : 17 FOREST RIDGE	
		5" 2-Ply - PA	Project #:		
BM1 Kerto-S LVL	1.750" X 11.875	5" 2-Ply - P		aval laval	
			433ED		
• • •	• • •	• •	• •	• • •	
		• • • •	•		11 7/8"
•••••	• • •	• •	•	• • •	
				2	
		12'			<b>1</b> 1 1/2"
I		12'7"			Ι
Multi-Ply Analysis					
Fasten all plies using 4 rows of 10	d Box nails (.128x3") at 12'	" o.c Maximum end	distance no	ot to exceed 6"	
Capacity 81.0 %	)				
Load 305.0 F Yield Limit per Foot 376.5 F					
/ield Limit per Fastener 94.1 lb					
/ield Mode IV Edge Distance 1 1/2"					
Ain. End Distance 3"					
Load Combination D+S					
Duration Factor 1.15					
			T	Manufacturar Info	Comtech, Inc.
10100	hemicals Indling & Installation	<ol><li>For flat roofs provide proper dra ponding</li></ol>	anage to prevent	Manufacturer Info Metsä Wood	Lomtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC
structural adequacy of this component based on the 1. L	VL beams must not be cut or drilled			301 Merritt 7 Building, 2nd Floor	USA 28314
responsibility of the customer and/or the contractor to ensure the component suitability of the intended fa	tefer to manufacturer's product information egarding installation requirements, multi-ply astening details, beam strength values, and code			Norwalk, CT 06851 (800) 622-5850	910-864-TRUS
application, and to verify the dimensions and loads. a Lumber 3. D	pprovals Damaged Beams must not be used			www.metsawood.com/us ICC-ES: ESR-3633	
1. Dry service conditions, unless noted otherwise 5. P	Design assumes top edge is laterally restrained provide lateral support at bearing points to avoid ateral displacement and rotation	This design is valid until 1			соттесн