

REVIEWED

By julius lee at 4:01 pm, Sep 10, 2008

Project Information:

Builder: HOUSECRAFT HOMES

Model: CUSTOM

Builders FirstSource Job #: L286784

Street: 5813 NW LAKE JEFFREY RD

City: Lake City

County: Columbia
Building Code: FBC2004/TPI2002

Computer Program Used: MiTek 6.3

Truss Design Information:

Gravity Loads

Roof: 32 psf Total

Floor: 55 psf Total

Wind Standard: ASCE 7-02 Wind Speed: 110 mph

Mean Roof Ht: 14 ft

Wind

2525 E. Duval St.

Lake City, FL 32055

JULIUS LEE'S CONSULT. ENGR INC 1455 SW 4TH AVE , DELRAY BEACH

Exposure: BORIDA. 33444

design criteria, truss geometry, lumber, and plate information.

Design Professional Information:

Design Professional Of Record: John D. Harrington

Delegated Truss Engineer: Julius Lee

Note: Refer to individual truss design drawings for special loading conditions,

License #: CGC038861

License #: 34869

This truss specification package consists of this index sheet and 7 truss design drawings. This signed and sealed index sheet indicates acceptance of my professional engineering responsibility solely for listed truss design drawings. The suitability and use of each truss component for any particular building is the responsibility of the building designer per TPI.

Truss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date
1	T01G	L286784001	9/10/2008								2.015
2	T02	L286784002	9/10/2008								
3	T03	L286784003	9/10/2008								
4	T04	L286784004	9/10/2008								
5	T05	L286784005	9/10/2008								
6	T06	L286784006	9/10/2008								
7	T06G	L286784007	9/10/2008								
-											
-											
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-										- (0)	1201



Joh Truss Truss Type Qty HOUSECRAFT - TYRE RES. L286784 T01G **GABLE** 2 1 L286784001 Job Reference (optional) 6.300 s Apr 19 2006 MiTek Industries, Inc. Wed Sep 10 13:41:23 2008 Page 1 Builders FirstSource, Lake City, FI 32055 42-4-0 44-4-0 -2-0-0 21-2-0 2-0-0 21-2-0 21-2-0 2-0-0 Scale = 1:76. 5x6 = 13 5.00 12 12 11 17 19 21 3x5 < 3x5 > 23 4 31 30 35 = 42-4-0 Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-2-13,Edge], [24:0-3-8,Edge], [24:0-2-13,Edge] LOADING (psf) SPACING 2-0-0 DEFL **V**defi **PLATES** TCLL 1.25 TC BC 0.49 120 20.0 Plates Increase Lumber Increase -0.02 25 25 n/r n/r MT20 244/190 Vert(LL) Vert(TL) -0.027.0 0.13 BCIL 10.0 Rep Stress Incr NO Code FBC2004/TPI2002 NO WB 0.25 Horz(TL) 0.01 Weight: 264 lb LUMBER BRACING TOP CHORD TOP CHORD 2 X 4 SYP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing. T-Brace: 2 X 4 SYP No.3 - 13-35 BOT CHORD 2 X 4 SYP No.2 OTHERS 2 X 4 SYP No.3 **BOT CHORD** Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c. with 4in minimum end distance.

Brace must cover 90% of web length. REACTIONS (lb/size) 2=534/42-4-0, 35=285/42-4-0, 36=252/42-4-0, 37=247/42-4-0, 38=248/42-4-0, 40=249/42-4-0, 41=241/42-4-0, 42=279/42-4-0, 43=120/42-4-0, 44=541/42-4-0, 34=252/42-4-0, 34 33=247/42-4-0, 32=248/42-4-0, 30=249/42-4-0, 29=241/42-4-0, 28=279/42-4-0, 27=120/42-4-0, 26=541/42-4-0, 24=534/42-4-0
Max Horz 2=-151(load case 7) Max Horz 2=-151 (load case 7), 35=-130 (load case 6), 37=-143 (load case 6), 38=-138 (load case 6), 40=-139 (load case 6), 41=-137 (load case 6), 42=-150 (load case 6), 43=-91 (load case 6), 44=-255 (load case 6), 34=-126 (load case 7), 33=-144 (load case 7), 32=-138 (load case 7), 30=-140 (load case 7), 29=-136 (load case 7), 28=-151 (load case 7), 27=-88 (load case 7), 28=-262 (load case 7), 24=-314 (load case 7), 24=-314 (load case 7), 28=-255 (load case 10), 35=285 (load case 10), 35=285 (load case 10), 35=285 (load case 10), 35=285 (load case 10), 34=255 (load case 11), 33=247 (load case 1), 38=248 (load case 1), 40=250 (load case 10), 41=241 (load case 1), 42=279 (load case 10), 43=120 (load case 1), 44=542 (load case 10), 34=255 (load case 11), 33=247 (load case 1), 32=248 (load case 1), 30=250 (load case 11), 29=241 (load case 1), 28=279 (load case 11), 27=120 (load case 1), 26=542 (load case 11), 24=537 (load case 11) FORCES (lb) - Maximum Compression/Maximum Tension - Maximum Compression/Maximum Tension
1-2=-1985, 2-3=-159/25, 2-4=-191/161, 4-5=-102/78, 5-6=-80/106, 6-7=-19/121, 7-8=-34/106, 8-9=0/149, 9-10=0/178, 10-11=0/218, 11-12=0/266, 12-13=-0/306, 13-14=-0/306, 14-15=0/266, 15-16=0/218, 16-17=0/172, 17-18=0/126, 18-19=0/97, 19-20=0/81, 20-21=-12/106, 21-22=-33/67, 22-23=-124/161, 23-24=-92/52, 24-25=-19/85
2-44=-50/201, 43-44=-50/201, 42-3=-50/201, 44-23=-50/201, 40-41=-50/201, 39-40=-50/201, 38-39=-50/201, 37-38=-50/201, 36-37=-50/201, 35-36=-50/201, 34-35=-50/201, 33-34=-50/201, 32-33=-50/201, 31-32=-50/201, 30-31=-50/201, 29-30=-50/201, 28-29=-50/201, 27-28=-50/201, 26-27=-50/201, 24-26=-50/201, 31-32=-565/0, 12-36=-235/154, 11-37=-227/177, 10-38=-228/170, 9-40=-229/172, 8-41=-223/168, 6-42=-252/185, 5-43=-126/113, 42-32-50/201, 43-41=-235/154, 15-33=-227/177, 16-32=-228/170, 17-30=-229/172, 18-29=-223/168, 20-28=-252/185, 21-27=-126/113, 23-25-60/201, 23-25-60/201, 23-25-25/154, 15-33=-227/177, 16-32=-228/170, 17-30=-229/172, 18-29=-223/168, 20-28=-252/185, 21-27=-126/113, 23-25-60/201, 23-25-25/201, 23-25/2 TOP CHORD BOT CHORD WEBS 22-26=-473/315 JOINT STRESS INDEX 2 = 0.57, 2 = 0.21, 3 = 0.00, 3 = 0.59, 3 = 0.59, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.15, 8 = 0.34, 9 = 0.34, 10 = 0.34, 11 = 0.34, 12 = 0.34, 13 = 0.18, 14 = 0.34, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.15, 20 = 0.34, 21 = 0.34, 21 = 0.34, 22 = 0.34, 23 = 0.00, 23 = 0.59, 23 = 0.59, 24 = 0.57, 24 = 0.21, 26 = 0.34, 27 = 0.34, 28 = 0.34, 29 = 0.34, 30 = 0.34, 31 = 0.15, 32 = 0.34, 33 = 0.34, 34 = 0.34, 35 = 0.34, 34 = 0.34, 35 = 0.340.34, 36 = 0.34, 37 = 0.34, 38 = 0.34, 39 = 0.15, 40 = 0.34, 41 = 0.34, 42 = 0.34, 43 = 0.34 and 44 = 0.34 NOTES (11)

1) Unbalanced roof live loads have been considered for this design.

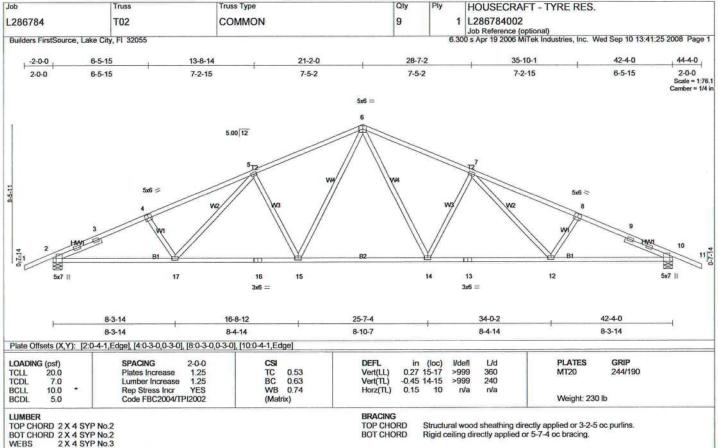
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"

4) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5) All plates are 2x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing. 7) Gable studs spaced at 2-0-0 oc. 8) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi b) An oearings are assumed to be SYP No.2 crusning capacity of \$55.00 psi
b) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 2, 130 lb uplift at joint 36, 143 lb uplift at joint 37, 138 lb uplift at joint 38, 139 lb uplift at joint 40, 137 lb uplift at joint 41, 150 lb uplift at joint 42, 91 lb uplift at joint 43, 255 lb uplift at joint 44, 126 lb uplift at joint 43, 144 lb uplift at joint 33, 138 lb uplift at joint 32, 140 lb uplift at joint 30, 136 lb uplift at joint 29, 151 lb uplift at joint 28, 88 lb uplift at joint 27, 262 lb uplift at joint 26 and 314 lb uplift at joint 24.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) Truss Design Engineer. Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435 LOAD CASE(S) Standard

1) Regular, Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-13=-114(F=-60), 13-25=-114(F=-60), 2-24=-10



SLIDER

Left 2 X 4 SYP No.3 3-5-9, Right 2 X 4 SYP No.3 3-5-9

REACTIONS (lb/size) 2=1463/0-7-8, 10=1463/0-7-8 Max Horz 2=126(load case 6) Max Uplift2=-387(load case 6), 10=-387(load case 7)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD

TOP

JOINT STRESS INDEX

2 = 0.94, 2 = 0.61, 2 = 0.61, 3 = 0.00, 4 = 0.49, 5 = 0.47, 6 = 0.70, 7 = 0.47, 8 = 0.49, 9 = 0.00, 10 = 0.94, 10 = 0.61, 10 = 0.61, 12 = 0.43, 13 = 0.74, 14 = 0.56, 15 = 0.56, 16 = 0.74 and 17 = 0.43

NOTES (7)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

designed for C-C for members and forces, and for MWH-RS for reactions specified.

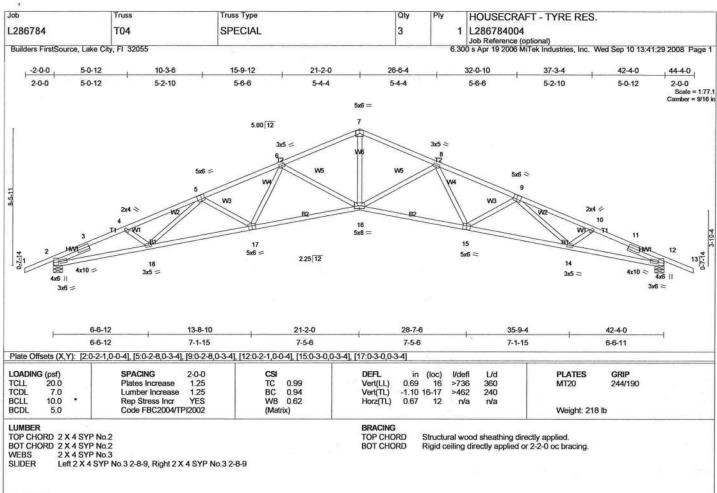
3) This truss has been designed for a 1.0. ps f bottom chord live load nonconcurrent with any other live loads.

4) All plates are 3x5 MT20 unless otherwise indicated.

5) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 387 lb uplift at joint 2 and 387 lb uplift at joint 10.

7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435



REACTIONS (lb/size) 2=1462/0-7-8, 12=1462/0-7-8

Max Horz 2=-123(load case 7)
Max Uplift2=-388(load case 6), 12=-388(load case 7)

FORCES (Ib) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/20, 2-3=-3924/2124, 3-4=-3853/2127, 4-5=-3874/2142, 5-6=-3774/2088, 6-7=-2971/1631, 7-8=-2971/1631, 8-9=-3774/2088, 9-10=-3874/2142, 10-11=-3853/2127, 11-12=-3924/2124, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3824/2144, 10-11=-3853/2127, 11-12=-3924/2144, 10-11=-3853/2127, 11-12=-3824/2144, 10-11=-3853/2127, 11-12=-3824/2144, 10-11=-3853/2127, 11-12=-3824/2144, 10-11=-3853/2127, 11-12=-3824/214, 10-11=-3853/2127, 11-12=-3824/214, 10-11=-3853/2

12-13=0/20

12-13-4/20 2-18-1805/3485, 17-18-1901/3792, 16-17=-1519/3319, 15-16--1519/3319, 14-15--1901/3792, 12-14--1805/3485 4-18-0/222, 5-18--215/127, 5-17--381/325, 6-17--229/423, 6-16--693/503, 7-16--1012/1936, 8-16--693/503, 8-15--229/422, 9-15--381/325, 9-14--215/127, 10-14-0/222 WEBS

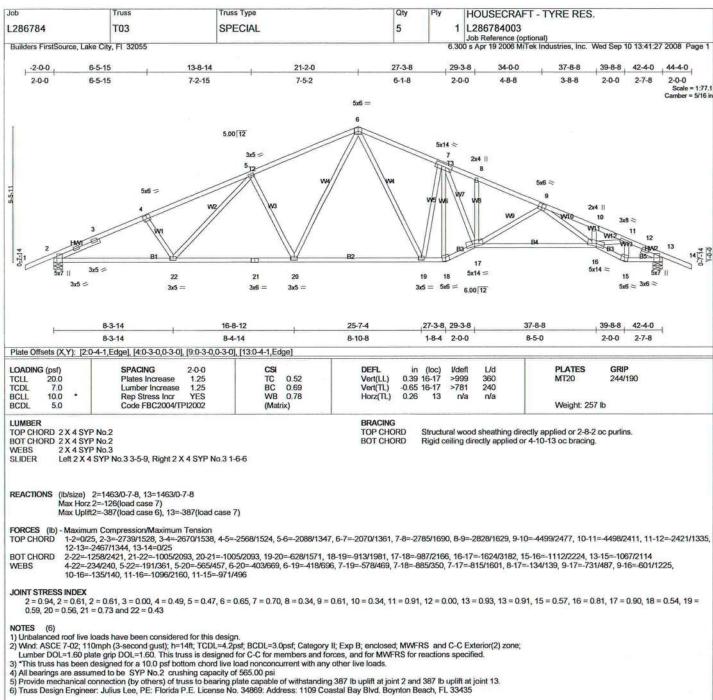
2 = 1.00, 2 = 0.86, 2 = 0.74, 3 = 0.00, 4 = 0.34, 5 = 0.75, 6 = 0.47, 7 = 0.68, 8 = 0.47, 9 = 0.74, 10 = 0.34, 11 = 0.00, 12 = 1.00, 12 = 0.86, 12 = 0.74, 14 = 0.43, 15 = 0.82, 16 = 0.95, 17 = 0.82 and 18 = 0.85, 17 = 0.82, 16 = 0.95, 17 = 0.82, 16 = 0.95, 17 = 0.82, 16 = 0.95, 17 = 0.82, 16 = 0.95, 17 = 0.82, 16 = 0.95, 17 = 0.82, 16 = 0.95, 17 = 0.82, 16 = 0.95, 17 = 0.82, 18 = 0.95, 17 = 0.82, 18 = 0.95, 17 = 0.82, 18 = 0.95, 17 = 0.82, 18 = 0.95, 17 = 0.82, 18 = 0.95, 17 = 0.82, 18 = 0.95, 18 = 0.

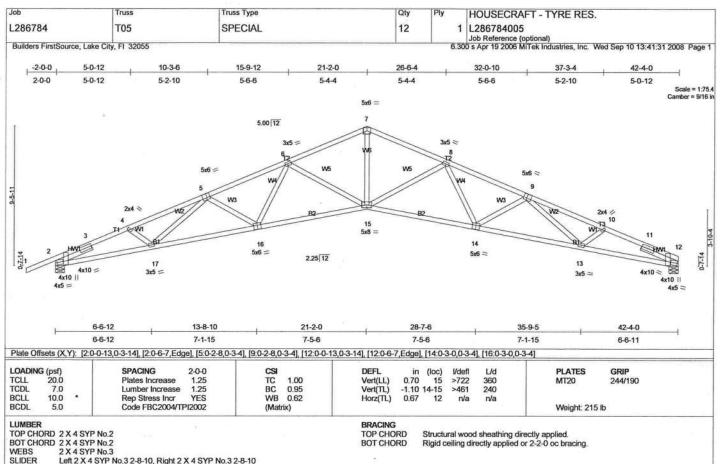
Unbalanced roof live loads have been considered for this design.

Unicid ASCE 7-02; 10mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 All bearings are assumed to be SYP No.2 crushing capacity of 565 00 psi
 Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

surface

suitacs.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 2 and 388 lb uplift at joint 12.
7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435





Left 2 X 4 SYP No 3 2-8-10. Right 2 X 4 SYP No 3 2-8-10.

REACTIONS (lb/size) 2=1465/0-7-8, 12=1349/0-7-8 Max Horz 2=129(load case 6)

Max Uplift2=388(load case 6), 12=-299(load case 7)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD
BOT CHORD
WEBS

1-2=0/20, 2-3=-3930/2152, 3-4=-3858/2156, 4-5=-3880/2173, 5-6=-3784/2127, 6-7=-2982/1671, 7-8=-2982/1671, 8-9=-3795/2142, 9-10=-3931/2244, 10-11=-3919/2241, 11-12=-3987/2233

1-2=0/20, 2-3=-3930/2152, 3-4=-3858/2156, 4-5=-3880/2173, 5-6=-3784/2127, 6-7=-2982/1671, 7-8=-2982/1671, 8-9=-3795/2142, 9-10=-3931/2244, 10-11=-3919/2241, 11-12=-3987/2233

2-17=-1862/3489, 16-17=-1966/3800, 15-16=-1586/3328, 14-15=-1596/3336, 13-14=-1995/3821, 12-13=-1950/3552

4-17=0/223, 5-17=-218/134, 5-16=-381/323, 6-16=-227/422, 6-15=-693/501, 7-15=-1043/1945, 8-15=-701/513, 8-14=-239/430, 9-14=-392/340, 9-13=-183/84, 10-13=0/218

JOINT STRESS INDEX

2 = 1.00, 2 = 0.87, 2 = 0.86, 3 = 0.00, 4 = 0.34, 5 = 0.75, 6 = 0.47, 7 = 0.68, 8 = 0.47, 9 = 0.75, 10 = 0.34, 11 = 0.00, 12 = 1.00, 12 = 0.87, 12 = 0.86, 13 = 0.43, 14 = 0.83, 15 = 0.96, 16 = 0.83 and 17 = 0.43

NOTES (7)

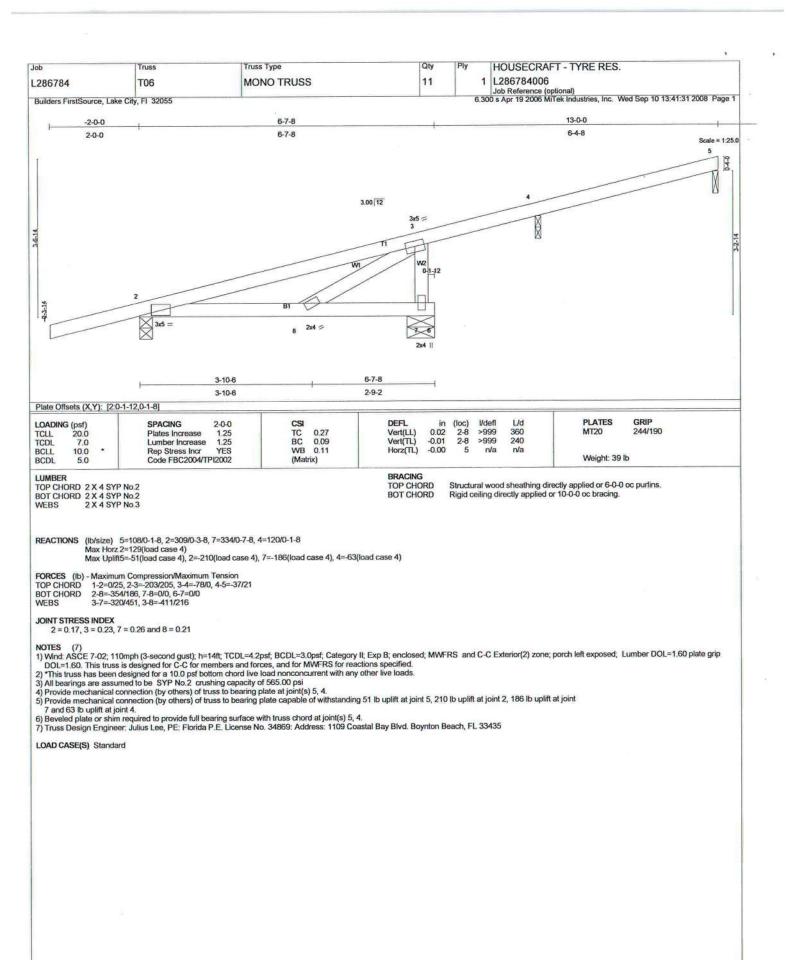
1) Unbalanced roof live loads have been considered for this design.

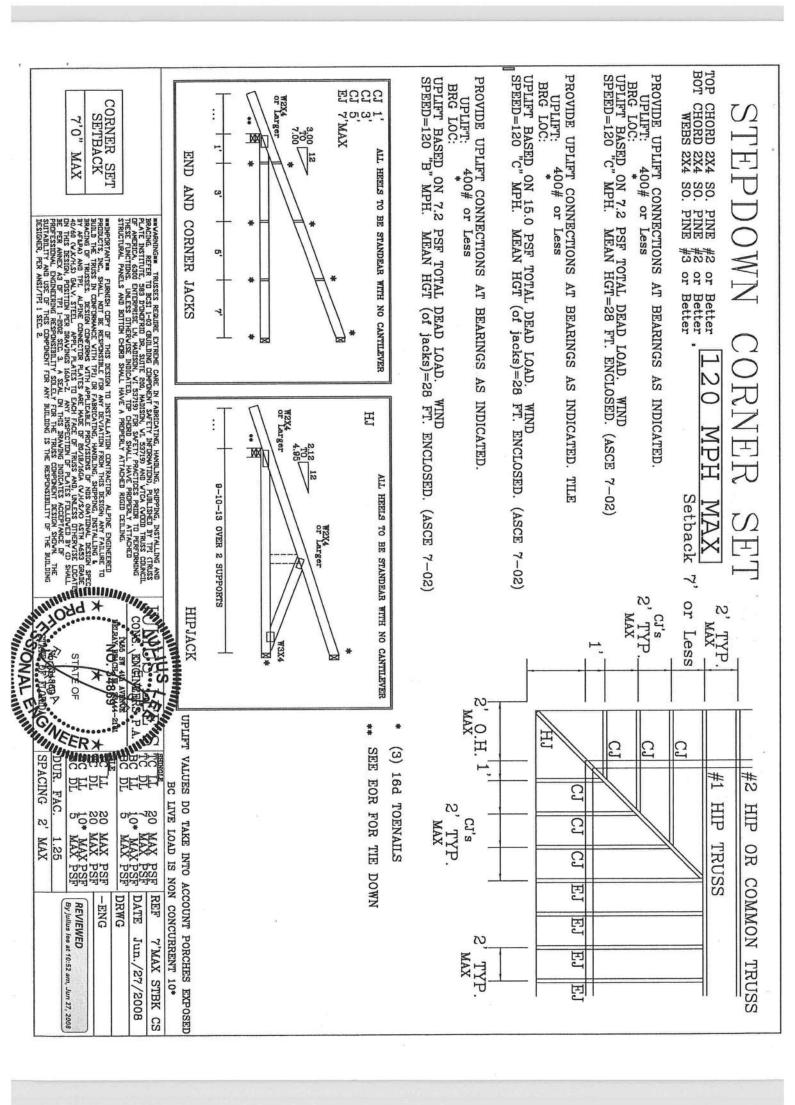
2) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

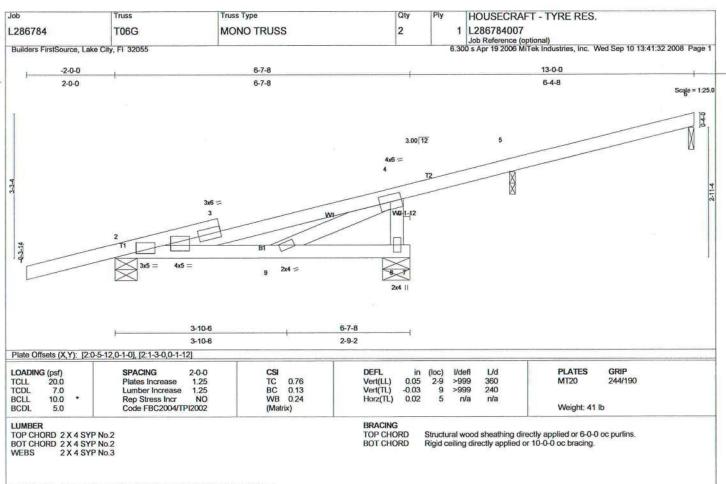
3) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

- 5) Bearing at joint(s) 2, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 388 lb uplift at joint 2 and 299 lb uplift at joint 12.
 7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435







REACTIONS (lb/size) 2=633/0-6-0, 6=228/0-1-8, 8=640/0-7-8, 5=265/0-1-8 Max Horz 2=167(load case 4)

Max Uplift2=-568(load case 4), 6=-188(load case 4), 8=-534(load case 4), 5=-224(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-46/53, 2-3=-226/240, 3-4=-203/202, 4-5=-76/2, 5-6=-72/44 BOT CHORD 4-9=-356/197, 8-9=0/0, 7-8=0/0 4-8=-613/972, 4-9=-392/218

JOINT STRESS INDEX

2 = 0.78, 2 = 0.92, 3 = 0.00, 3 = 0.86, 4 = 0.30, 8 = 0.56 and 9 = 0.18

NOTES (8)

1) Wind: ASCE 7-02; 110mph (3-second gust); h=14ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; porch left exposed; Lumber DCL=1.60 plate grip DCL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) "This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

3) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6, 5.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 568 lb uplift at joint 2, 188 lb uplift at joint 6, 534 lb uplift at joint 6, 53

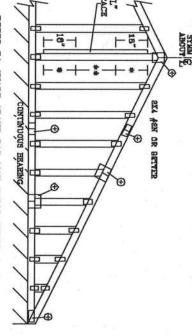
joint 8 and 224 lb uplift at joint 5.
6) Beveled plate or shirm required to provide full bearing surface with truss chord at joint(s) 6, 5.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
8) Truss Design Engineer. Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435

LOAD CASE(S) Standard

Uniform Loads (plf)
Vert: 1-6=-114(F=-60), 2-7=-10

ASCE 7-02: 130 MPH WIND SPEED, 30, MEAN HEIGHT, ENCLOSED, I II 1.00, EXPOSURE a

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		レドー	1	V.)	TIT	H	J T I	T C D			1	\U.)	TIT	H	SEL	ロコロ			1)	TIL	ij	מלק	TI CI	SPACING SPECIES GRADE	CARIE VERTICAL
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	4' 0"	4.	4' 2"	4' 4"	4 5"	3' 11"	3' 11"	3' 11"	4. 0.	3' 8"	3. 8,	3. 8.	3' 11"	4. 0,	3. 4.	3' 7"		3' 8"	3' 0"	3' 3"		3' 6"	- 91	2' 11.	3' 1"	3' 1"	رة م	BRACES	2
	5 6	6 4	8' 6"	8' 11"	B' 11°	5' 4"	8 3	8 3,		4' 9"	5 8	5 7	8 4	8' 4"	4' 8'	5 6	U.	8' 4"	3' 10"	4' 6"		5 6	5' 6"	3' 8"	4' 6"	4' 5"	5' 6'	GROUP .	(1) 1X4
	5, 8,	8' 4"	6, 2,	7' 6"	7' 6"	5' 4"	6' 3"	8 3	7. 2.	4' 9"	5' 6"	6. 7.		B' 10"		6' 5"	5' 5"	6' 6"	3' 10"	4' 6"	4′ 6"	5' 11'	5' 11"	3, 9,	4' 5"	4" 5"	6′ 8"	A GROUP H	"L" BRACE .
	7' 3"	8' 3"	8, 3,	8' 3"	8' 3"	7' 1"	8. 3"	8' 3"		6' 3"	7' 3"	7' 4"	7" 6"	7' 8"	6. 5.	7, 2,	2, Sx	7' 6"	6' 1"	5' 11"	6, 0,		e, B,	6, 0,		6. 10.	6′ 6"	GROUP	(1) 2X4 "L"
CI PUTAS	7' 9"	8. 6.	8, 8,	8' 11"	B' 11°	7, 1,	e' 3"	8' 3"	8' 6'	8. S.	7' 3"	7' 4"	8' 1"	B' 1°	6. 2.	7: 2×	7' 2"	7' 8"	5' 1"	5' 11"	6. 0.	7' 0"	7' 0"	5. 0.		5' 10"	6. 9.	A GROUP B	"L" BRACE .
0	B. 8.		9' 10"		8, 10,	8, 8,	9' 10"	8, 10,,	9' 10"	8° 5"	8' 11"	B. 11.	8' 11"		8' 3"	B' 11"	100.0	B, 11.	e, 11.	7' 10"	7' 10"	7' 10"	7' 10"	6, 9,	7' 10"	7' 10"	7' 10'	GROUP A	(2) 2X4 "L"
	8, 8,	10′ 4″	10′ 4″	10' 7"	-	ව, වූ	9' 10"	9' 10"	10, 1,	8' 5"		8. 6.	8, 4,	B, 2,	8' 3"	B' 11."	B' 11"	97 60	0.000	8' O"			8, 2,				8, 0,	GROUP	BRACE **
	11' 4"		12' 11"	12, 11,	12' 11"	11' 1"		12' 11"	12' 11"		11, 4,	11. 5.	- 1	11, 8,	9, 2,		11' 2"	11. 9.	B, 0,	8, 3,		10′ 3″	10' 3"	7' 10"	9' 1"	9' 1"	10' 3"	B GROUP A	(1) 2X8 °L'
	11' 4"	13. 1.	18' 3"	13' 11"	13' 11"	11' 1"	12' 10"	12' 11"	13' 4"	8, 8,	11' 4"	11. 6.	12' B"	12' B"	8, 4,	11. 1.	11' 2"	12' 1"	8, 0,	8 3	6. 4.	11, 1,	11, 1,,	7' 10"	9, 1,	9' 1"	10' 7"		
	14' O"	14' O"	14' 0"	14' 0"	14 0	14' 0"	14' 0"	14. O.	14. 0"	13' 3"	14 O°	14' 0"	14' 0"	14' O°	18, 11,	14' 0"	14' 0"	14. O.	10' 10"	12' 3"	12.	12' 8"	12' 3"	10' 7"	12	12' 3"	12' 3"	GROUP A	BRACE . (2) ZXB "L" BRACE
	14' 0"	14' 0"	14' 0"	14' 0"	14 00	14' 0"	14' 0"	14 0	14. 0.	13' 3"	14 00	14. 0.		14' 0"	12' 11.	14' 0°	14' 0"	14. 0.	10' 10"	12' 6"	12, 8,	19' 2"	13' 2"	10′ 7″	18, 3,	12' 3"	12' 7"	CROUP B GROUP A GROUP B	HRACE .
CAMERA BALLA MALKE E, O, DAILHENC' DE 15,	CARL DAN GLEGOVILL THE STATE OF	CONTINUING BEARING /S DOE TO DEAD TOAN	and an order of the same of th	OVER 1 SI VIDALINGO MULANIZADA UVOI ANII	CABLE IRUSS DETAIL NOTES:				122	_	SOUTHING PINE DOUGLAS FIR-LARCH		AT G. BIE	ECTAL-PUR	GROUP B:			STANDARD	I		DOUGLAS FIR-LARCH SOUTHERN PONE	PO STOD \$3 STANDARD	4K STANDAND	M-MIN HIM-INI-	OUP A:		BRACING GROUP SPECIES AND GRADES:	i.	



DIAGONAL HEACH OPTION:
YERTICAL LENGTH MAY BE
DOUBLED WICH DIAGONAL
HRACE IS USED, CONNOCT
HIACONAL HEACH TOR HEAG
AT EACH MITH. MITH WEED
AT EACH MITH.

GABLE TRUSS

TOTAL LENGTH IS 14.

VERTICAL LENGTH SHOWN

CAHLE	
TRUSS	
DETAIL	
NOTES:	

ATTACE EACH "L" ERACE WITH 104 NAIS.

FOR (1) "L" BEACE: SPACE NAIS AT 8" O.C.

NOT STO ZONES AND 4" O.C. HETWIEN ZONES.

FOR (2) "L" BRACES: SPACE NAIS AT 3" O.C.

IN 18" END ZONES AND 6" O.C. HETWIEN ZONES. PLYWOOD OVERHAMG. TILIDIMINES WITH S' O' OVERHANG, DR 12" THE UPLIT CONNECTIONS FOR 180 PLF OVER ONTINUOUS BEARING (6 PSF TC DEAD LOAD). LOAD DEPLECTION CHITERIA IS L/240.

				M	₽			
DWG myek std gable so' e ht	DATE 11/26/09	REF ASCET-02-GAB13030	+ REFER TO COMMON TEUSS DESIGN FOR PEAK, SPLICE, AND BEEL PLATES.	GREATER THAN 11' 6" 2.5X4	GREATER TEAM 4' D', BUT ZX4	LESS THAN 4' O" 1X4 DR 2X3	AEBLACAT CENCLE NO SELTOR	CADIC AERICAL LIVIE SIZES

SAVENGE REPRETENCE OF THE SAFETY CHECKET AND SAFETY CHOOSE RESIDENCE OF THE SAFETY CHECKET AND SAFETY CHOOSE RESIDENCE OF THE SAFETY CHOOSE OF THE SAFETY CHOOSE OF COMMISSION OF COMMIS	ERACE SP OR TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH REPER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH REPER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH REPER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH REPER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH
REF ASCEY-02-GAB13030 P.A. DATE 11/26/03 DWG myek std gable 30' e ht	T" SPACING MUST BE A MINIMUM OF SOX OF WEB CABLE VERTICAL CHOCK NO SPLICE CORRATED TRAN (1' 0' 1XL OR EXX CORRATED TRAN (1' 0' 1XL OR EXX CORRATED TRAN (1' 0' 20.5XL H REFER TO COUMIN HOUSE DESIGN FOR PEAKK, SPLICE, AND EXEL PLATES.

NO. 44869

STATE OF

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By julius lee at 12:00 pm, Jun 11, 2008

No: 34869 STATE OF FLORIDA

MAX.

SPACING

24.0"

MAX.

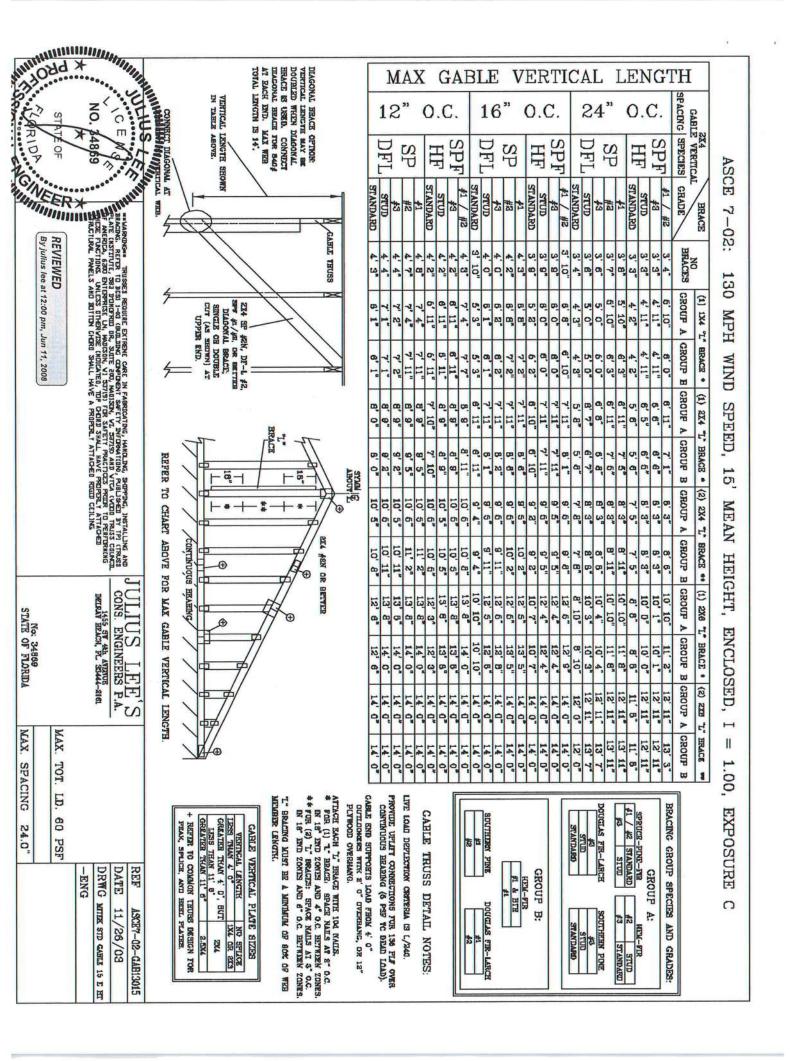
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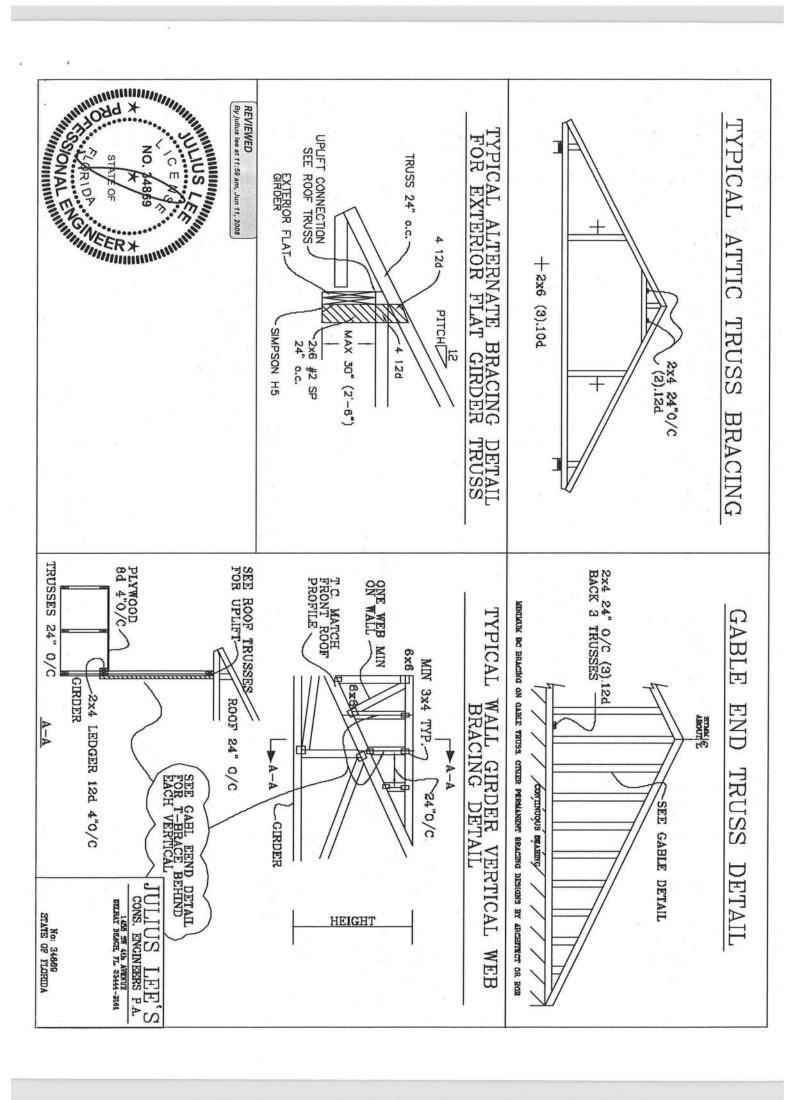
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BOT CHORD CHORD 284 はなな 999 BETTER BETTER

DETAIL

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REFER TO SEALED DESIGN FOR DASHED PLATES

SPACE PIGGYBACK VERTICALS AT 4' OC MAX. TOP AND BOTTOM CHORD SPIJCES MUST BE STAGGERED SO THAT ONE SPIJCE IS NOT DIRECTLY OVER ANOTHER.

PIGGYBACK BOTTOM CHORD MAY BE OMITTED. TRUSS TOP CHORD WITH 1.5X3 PLATE. ATTACH VERTICAL WEBS TO

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY HE APPLIED HENEATH THE TOP CHORD OF SUPPORTING TRUSS

REFER TO ENGINEER'S SEALED DESIGN FOR REQUIRED PURLIN SPACING.

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS:

110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED HLDC, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST CAT I, EXP C, WIND TO DI=5 PSF, WIND BC DI=5 PSF

110 MPH WIND, 30' MEAN HGT, FEG ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TO DL-5 PSF, WIND BC DL-5 PSF

HIND TC DL=6 30' MEAN HGT, ASCE 7-02, ANYWHERE IN ROOF, CAT II, PSF, WIND HC DL=6 PSF

H

8

OR SX6 TRULOX AT 4'

C,

U

6X6

6X6

9XG

0

EXG.

1.6X4

1.6X4

1.5X4

H

488 284

5X8

600

5XB 3XE

2,5X4

2.6X4

SHAMMINIM AND STATE OF THE STAT NO. 4869

NO. 48 FRONT FACE (E,*) FLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX. LOCATION IS ACCEPTABLE XX V 20' FLAT TOP I N H CHORD MAX SPAN B MAX SIZE OF ZXIZ Ш D-SPLICE

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	CONNECTED, REFER TO DRAWING 160 TL FOR THULOX	TO DRAWING 160 TL FOR

PER

WEB LENGTH	REQUIRED BRACING
0' TO 7'9"	NO BRACING
7'9" TO 10'	124 "T" BRACE SAME GRADE, SPECIES AS WEB MEDITIES, AND BOX LENGTH OF WEB MEMBER ATTACH WITH 8d NAMES AT 4" OC.
10' TO 14'	ZX4 "I" BRACE. SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 164 NAILS AT 4° OC.

TEETH TO THE PIGGYBACK AT THE TIME OF TION. ATTACK TO SUPPORTING TRUSS WITH Y X 1.375" NAILS PER FACE PER PLY, APPLY CK SPECIAL PLATE TO EACH TRUSS FACE AND OC OR LESS.		
TEETH TO THE PIGGYBACK AT THE PIGN. ATTACH TO SUPPORTING TRU "X 1.375" NAILS PER FACE PER PER POEM OF OR LESS. OC OR LESS.	-	
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TEETH TO THE PIGGYBACK AT THE PIGN. ATTACH TO SUPPORTING TRU "X 1.375" NAILS PER FACE PER PCK SPECIAL PLATE TO EACH TRUSS OC OR LESS.		
TEETH TO THE PIGGYBACK AT THE PIGGYBACK AT THE PIGGYBACK OF TRU ON ATTACH TO SUPPORTING TRU N X 1.375" NAILS PER FACE PER PER PER PER PER PER PER PER PER PE		0
		PIGGYBACK AT THE TO SUPPORTING TRU ILS PER FACE PER P LATE TO EACH TRUSS

1972 PAYSE IT 33444 S181 No: 34869 STATE OF FLORIDA IUS LEH E SPAS SPACING 55 PSF 1.33 DUR. 47 PSF 1.15 DUR. 50 PSF MAX LOADING DUR. 24.0 AT FAC AT FAC. DATE REF DRWG MITEK STD 09/12/07 PIGGYBACK PIGG

CONS.

THIS DRAWING

REPLACES DRAWINGS

634,016

834,017 & 847,045

TOE-NAILDETAIL

TOE-NAILS TO BE DRIVEN AT AN ANGLE OF APPROXIMATELY THIRTY DEGREES WITH THE PIECE AND STARTED APPROXIMATELY ONE-THIRD THE LENGTH OF THE NAIL FROM THE END OF THE MEMBER.

PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 END DISTANCE, SPACING: "EDGE DISTANCES, SPACINGS FOR NAILS AND SPIKES SHALL BE PREVENT SPLITTING OF THE WOOD." - EDGE DISTANCE, END DISTANCES AND E SUFFICIENT TO

THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE, PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER

MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"X3.5") COMMON TOE-NAILS

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR	5 493#	4 394	3 296#	2 197#	TOE-NAILS 1	1	
MAY BE	3#	4#	6#	7#	PLY	SOUTHERN PINE	
MULTIPLIE	639#	511#	383#	256#	2 PLIES	N PINE	
D BY APP	452#	361#	271#	181#	1 PLY	DOUGLAS	
ROPRIATE	585#	468#	351#	234#	2 PLIES	DOUGLAS FIR-LARCH	
DURATION	390#	312#	234#	156#	1 PLY		,
OF LOAD I	507#	406#	304#	203#	2 PLIES	HEM-FIR	STOCKED CONTRACTOR OF THE STOCKED CONTRACTOR
ACTOR	384#	307#	230#	154#	1 PLY	SPRUCE	TOTAL PROPERTY.
	496#	397#	298#	189#	2 PLIES	SPRUCE PINE FIR	

NO. 4869

STATE OF ABUILTANIA PAIDS AND BUTTON OCHRO SHALL HAVE A PRIPER OF ABUILTANIA PAIDS AND BUTTON OCHRO SHALL HAVE A PRIPER OF ABUILTANIA PAIDS AND BUTTON OCHRO SHALL HAVE A PRIPER OF ABUILTANIA PAIDS AND BUTTON OCHRO SHALL HAVE A PRIPER OF ABUILTANIA PAIDS AND BUTTON OCHRO SHALL HAVE A PRIPER OF ABUILTANIA PAIDS AND BUTTON OCHRO SHALL HAVE A PRIPER OF ABUILTANIA PAIDS AND BUTTON OCHRO SHALL HAVE A PRIPER OCHRO SHALL HAVE A 1/8" GIRDER OPTIONAL (2) PLY 30°-60° **JACK** ALTERNATIVE CONDITION 1/8" GIRDER OPTIONAL (2) PLY

	200	
SIH	TILL	1
DRAWING	DIKA W.	77
NG	NG	
REPLACES	KEPLACES	1
DRAWING	DRAWING	7
784040	-	,

			WICATING, HANDLING, SHIPPING, INSTALLING AND RETY (RICENTAL PROJECT PRACTICES PRIZE TO PERPURHING CHIER SHEETY PRACTICES PRIZE TO PERPURHING PROPERLY ATTACHED PROPERLY ATTACHED PROPERLY ATTACHED PROPERLY ATTACHED PROPERLY ATTACHED PROPERLY ATTACHED RIGID CILING.					
STATE OF FLORIDA	No: 34869			DELRAY BEACH, FL 83444-2161	CONS. ENGINEERS P.A.	JULIUS LEE'S		
SPACING	DUR. FAC.	TOT. LD.	BC LL	BC DL	TC DL	TC LL		
	1.00	PSF	PSF	PSF	PSF	PSF		
			-ENG JL	DRWG	DATE	REF		
			T	CNTONAIL1103	09/12/07	TOE-NAIL		

VALLEYTRUSS DETAIL

HOP CHORD CHORD 2X4 SP #2 OR SPF #1/#2 OR BETTER. 2X3(*) OR 2X4 SP #2N OR SPF #1/#2 2X4 SP #3 OR BETTER. SPF #1/#2 OR BETTER.

ZX3 MAY BE RIPPED FROM A ZX6 (PITCHED OR SQUARE).

幣美 ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: FHC 2004 110 MPH, ASCE 7-02 110 MPH WIND ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, BUILDING, EXP. C. RESIDENTIAL, WIND TC DL=5 (2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR ENCLOSED FOR

> UNLESS SPECIFIED ON ENGINEER'S SEALED DESIGN, APPLY 1X4 "T"-BRACE, 80% LENGTH OF WEH, VALLEY WEH, SAME SPECIES AND GRADE OR BETTER, ATTACHED WITH 8d BOX (0.113" X 2.5") NAILS AT 6" OC, OR CONTINUOUS LATERAL BRACING, EQUALLY SPACED, FOR VERTICAL VALLEY WEBS GREATER THAN 7'9".

MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0"

TOP CHORD OF TRUSS BENEATH VALLEY SET NUST BE BRACED WITH:
PROPERLY ATTACHED, RATED SHEATHING APPLIED PRIOR TO VALLEY TRUSS INSTALLATION

PURLINS AT 24" OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN BY VALLEY TRUSSES USED IN LIEU OF PURLIN SPACING AS SPECIFIED ON

*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD. ENGINEERS' SEALED DESIGN.

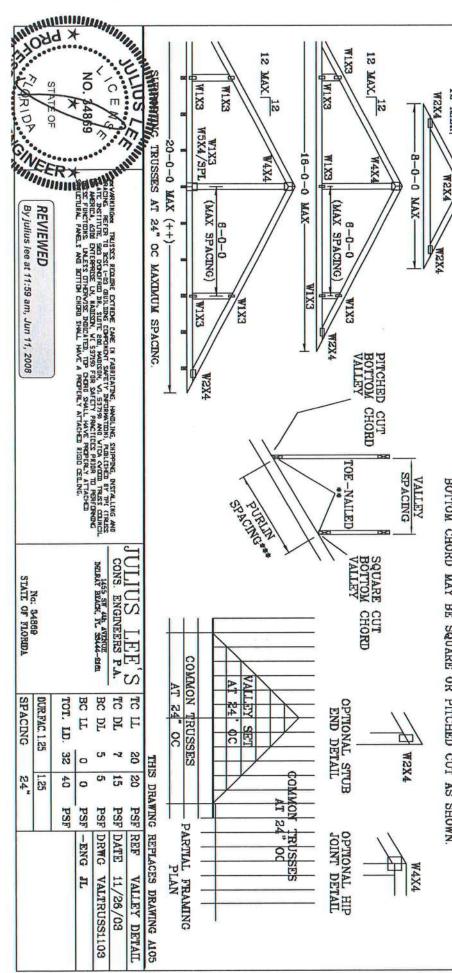
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES

CUT FROM 2X6 OR LARGER AS REQ'D

1-0-0 MAX

12 NAX.

NOT EXCEED 12'0". BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN



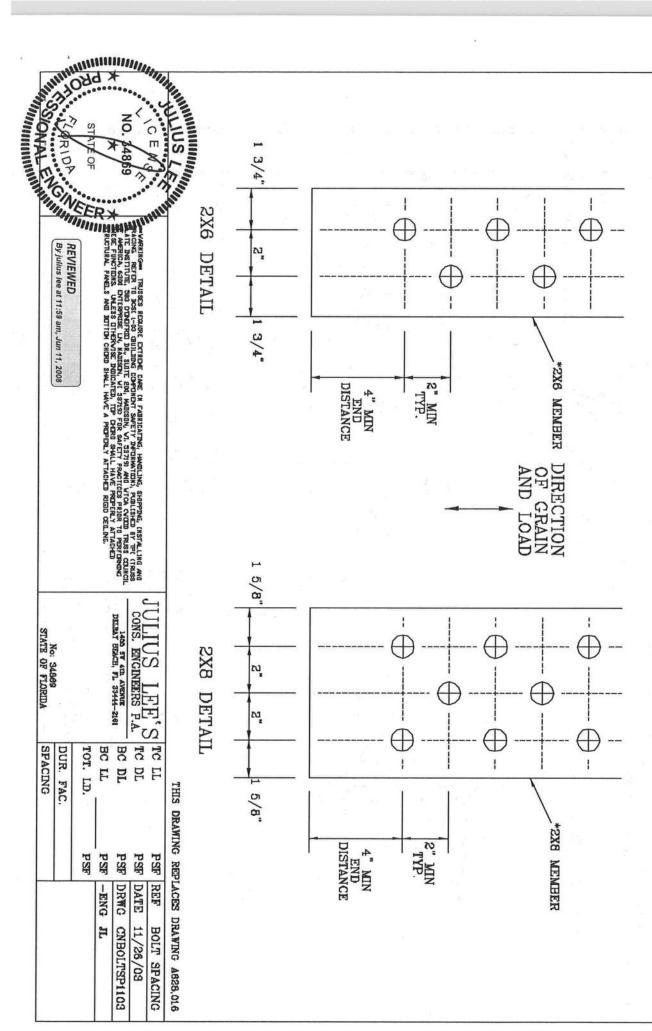
DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN

* GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN

BOLT HOLES SHALL BE A MINIMUM OF 1/52" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIANETER THRU BOLTS. QUANTITIES AS NOTED ON SEALED DESIGN MUST BE IN ONE OF THE PATTERNS SHOWN BELOW. APPLIED

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



SPACING

TRULOX CONNECTION

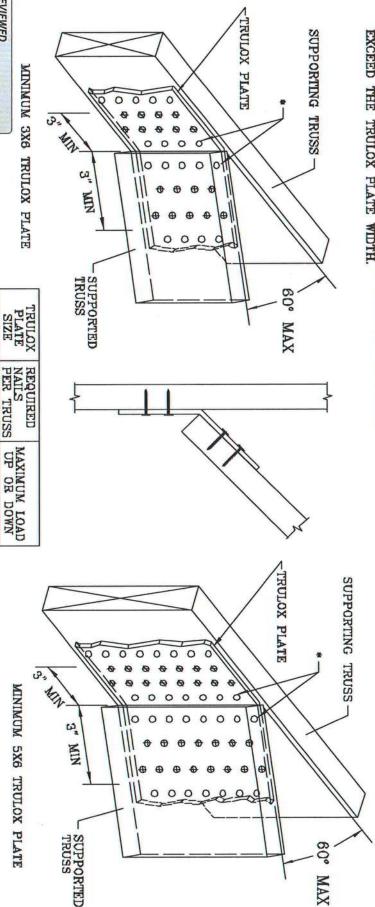
II GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (\(\phi \)).

NAILS MAY BE OMITTED FROM THESE ROWS USED

THIS DETAIL MAY BE OR HEM-FIR CHORDS DURATION OF EXCEED THE LOAD OR SPRUCE-PINE-FIR TRULOX PLATE LOAD. WITH A MINIMUM 1.00 DURATION CHORD CHORDS WITH A MINIMUM 1.15 HICH SIZE OF DOUGLAS-FIR TRUSSES NUST

TRULOX PLATE IS CENTERED ON THE CHORDS AND BENT BETWEEN NAIL ROWS.

REFER TO ENGINEER'S SEALED DESIGN REFERENCING THIS DETAIL FOR LUMBER, PLATES, AND OTHER INFORMATION NOT SHOWN



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REVIEWED

By julius lee at 11:58 am, Jun 11, 2008

3X6

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#088 350#

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LEE'S

1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524 THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R

REF DATE

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11/26/03 TRULOX

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No: 34869 STATE OF FLORIDA

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

		TEXT STATE			C	onnector Pattern		
Connector Type	Number of Rows	Connector On-Center Spacing	Assembly A 1 2" 1 2" 1 34"	Assembly B	Assembly C	Assembly D	Assembly E 1 2" 1 2" 33½"	Assembly F
			3½" 2-ply	51/4" 3-ply	51/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3")	2	12"	370	280	280	245		
Nail ⁽¹⁾	3	12"	555	415	415	370		
1/8 4007		24"	505	380	520	465	860	340
1/2" A307 Through Bolts ⁽²⁾⁽⁴⁾	2	19.2"	635	475	655	580	1,075	425
im ough bonts		16"	760	570	785	695	1,290	505
		24"	680	510	510	455		
SDS 1/4" x 31/2"(4)	2	19.2"	850	640	640	565		
		16"	1,020	765	765	680		
		24"				455	465	455
SDS 1/4" x 6"(3)(4)	2	19.2"				565	580	565
		16"			11 9	680	695	680
		24"	480	360	360	320		
USP WS35 (4)	2	19.2"	600	450	450	400		
		16"	715	540	540	480		
		24"				350	525	350
USP WS6 (3)(4)	2	19.2"				440	660	440
		16"				525	790	525
33/8"		24"	635	475	475	425		
TrussLok(4)	2	19.2"	795	595	595	530		
1100000		16"	955	715	715	635		
5"		24"		500	500	445	480	445
TrussLok(4)		19.2"		625	625	555	600	555
		16"		750	750	665	725	665
63/4"		24"				445	620	445
TrussLok(4)	2	19.2"				555	770	555
		16"				665	925	665

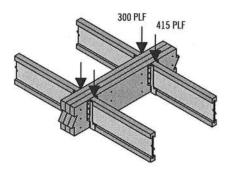
Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

- (2) Washers required. Bolt holes to be 1/16" maximum.
- (3) 6* SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.
- (4) 24* on-center bolted and screwed connection values may be doubled for 12* on-center spacing.

General Notes

- Connections are based on NDS® 2005 or manufacturer's code report.
- Use specific gravity of 0.5 when designing lateral connections.
- Values listed are for 100% stress level. Increase 15% for snow-loaded roof conditions or 25% for non-snow roof conditions, where code allows.
- Bold Italic cells indicate Connector Pattern must be installed on both sides.
 Stagger fasteners on opposite side of beam by ½ the required Connector Spacing.
- Verify adequacy of beam in allowable load tables on pages 16–33.
- 7" wide beams should be side-loaded only when loads are applied to both sides
 of the members (to minimize rotation).
- Minimum end distance for bolts and screws is 6".
- Beams wider than 7" require special consideration by the design professional.

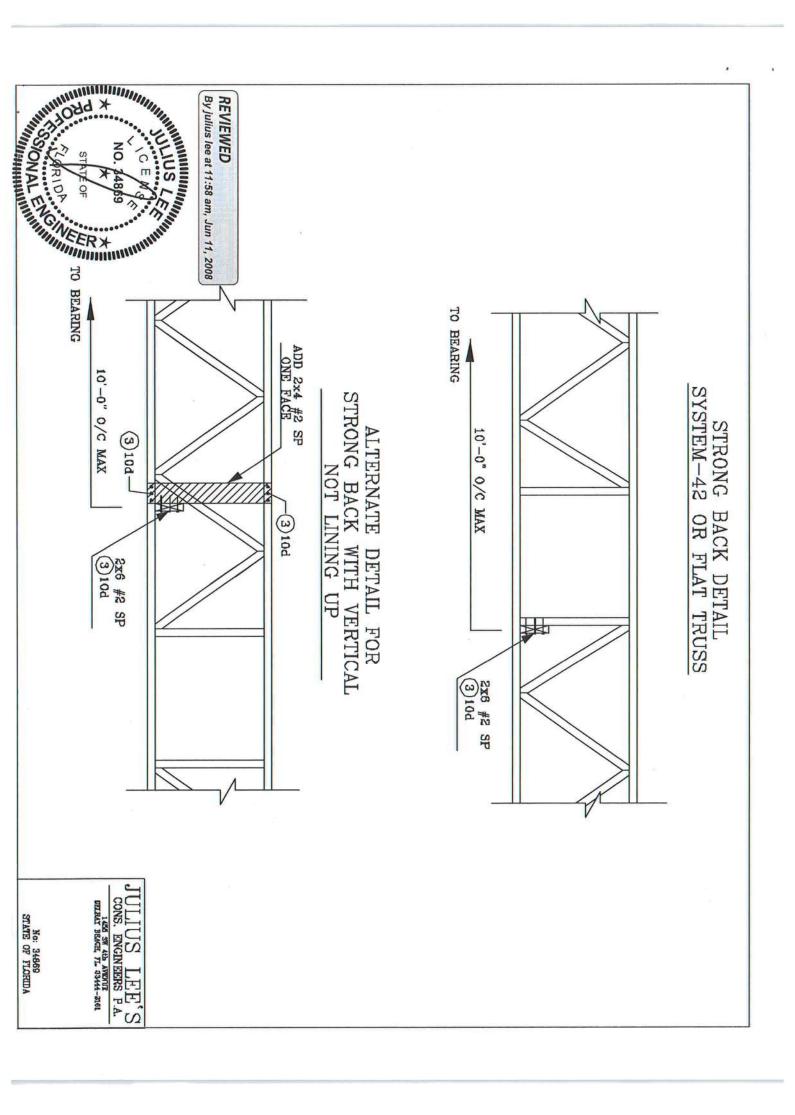
Uniform Load Design Example



First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1¾" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates:

Two rows of 1/2" bolts or SDS 1/4" x 31/2" screws at 19.2" on-center.



MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Point Load—Maximum Point Load Applied to Either Outside Member (lbs)

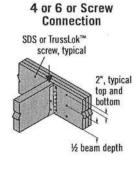
PARKS IN	CHEROLOGICAL PROPERTY.	Connector Pattern					
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
Connector Type	Number of Connectors	1 2" 1 2" 1 34"	- -	134" 31/2"	13/2" 13/2"	1 2 31/2	1 2" 1 2" 1 2" 1 2" 1 34"
		3½" 2-ply	51/4" 3-ply	51/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3") Nail	6	1,110	835	835	740		
	12	2,225	1,670	1,670	1,485		
	18	3,335	2,505	2,505	2,225		
	24	4,450	3,335	3,335	2,965		
SDS Screws 1/4" x 31/2" or WS35 1/4" x 6" or WS6 ⁽¹⁾	4	1,915	1,435(4)	1,435	1,275	1,860(2)	1,405(2)
	6	2,870	2,150 (4)	2,150	1,915	2,785(2)	2,110(2)
	8	3,825	2,870 (4)	2,870	2,550	3,715(2)	2,810(2)
3³⁄a" or 5" TrussLok™	4	2,545	1,910 (4)	1,910	1,695	1,925(3)	1,775(3)
	6	3,815	2,860 (4)	2,860	2,545	2,890(3)	2,665(3)
	8	5,090	3,815 (4)	3,815	3,390	3,855(3)	3,550(3)

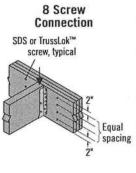
(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

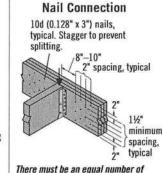
See General Notes on page 38

- (2) 6" long screws required.
- (3) 5" long screws required.
- (4) 3½" and 3¾" long screws must be installed on both sides.

Connections

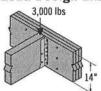






nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply 1¾" x 14" beam is capable of supporting the 3,000 lb point load as well as all other loads applied. The 3,000 lb point load is being transferred to the beam with a face mount hanger. For a 3-ply 1¾" assembly, eight 3¾" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

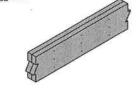
MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

13/4" Wide Pieces

- Minimum of three rows of 10d (0.128" x 3") nails at 12" on-center.
- Minimum of four rows of 10d (0.128" x 3") nails at 12" on-center for 14" or deeper.
- If using 12d-16d (0.148"-0.162" diameter) nails, the number of nailing rows may be reduced by one.
- Minimum of two rows of SDS, WS, or TrussLok™ screws at 16" on-center. Use 3¾" minimum length with two or three plies; 5" minimum for 4-ply members. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. For 3- or 4-ply members, connectors must be installed
- on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

31/2" Wide Pieces

- Minimum of two rows of SDS, WS, or TrussLok™ screws, 5" minimum length, at 16" on-center. 6" SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.
- Minimum of two rows of ½" bolts at 24" on-center staggered.



Multiple pieces can be nailed or bolted together to form a header or beam of the required size, up to a maximum width of 7"

