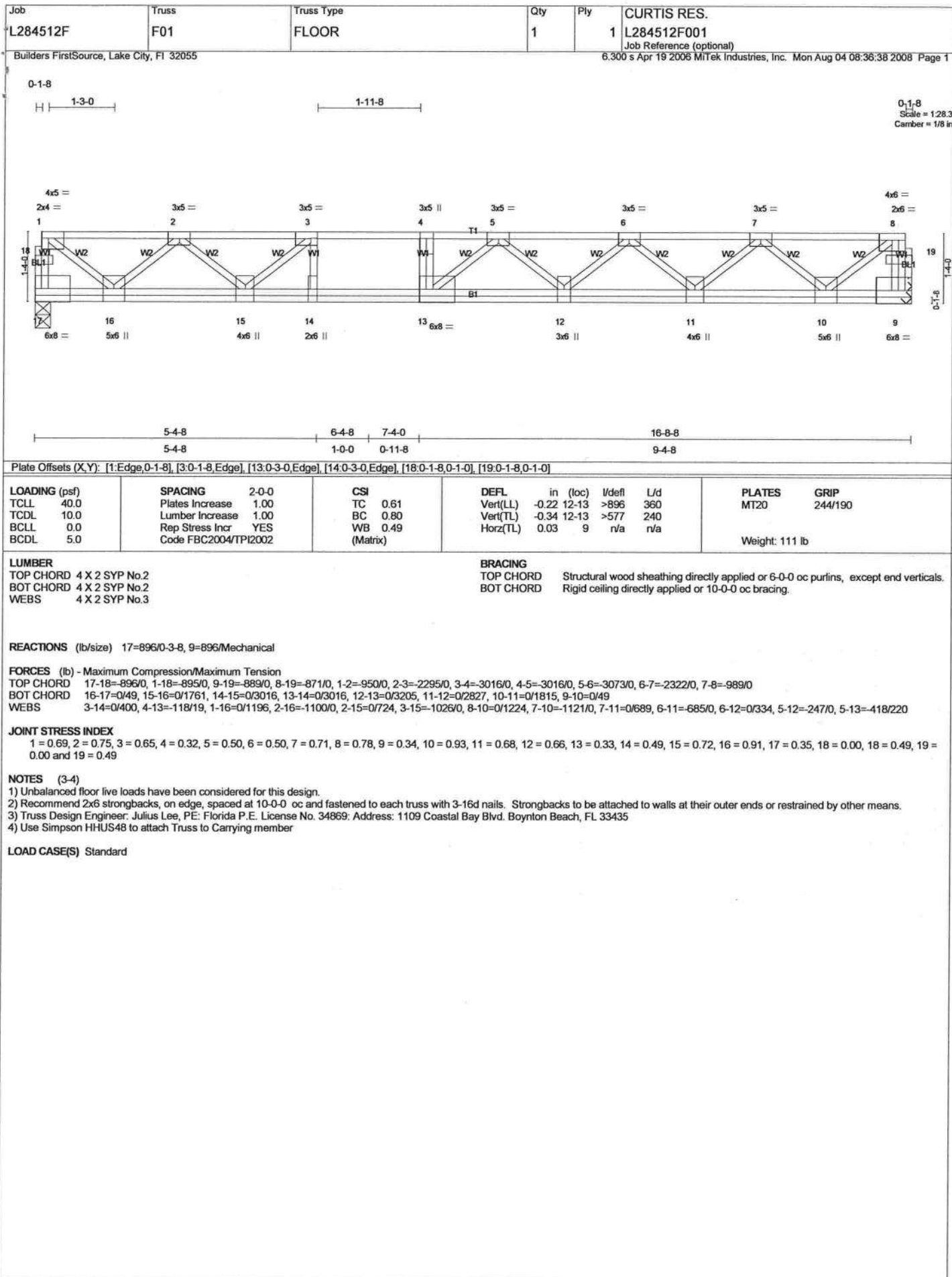


Project Information:				Builder: Cash Account				Builders FirstSource			
				Model: CUSTOM				2525 E. Duval St.			
Builders FirstSource Job #: L284512F								Lake City, FL 32055			



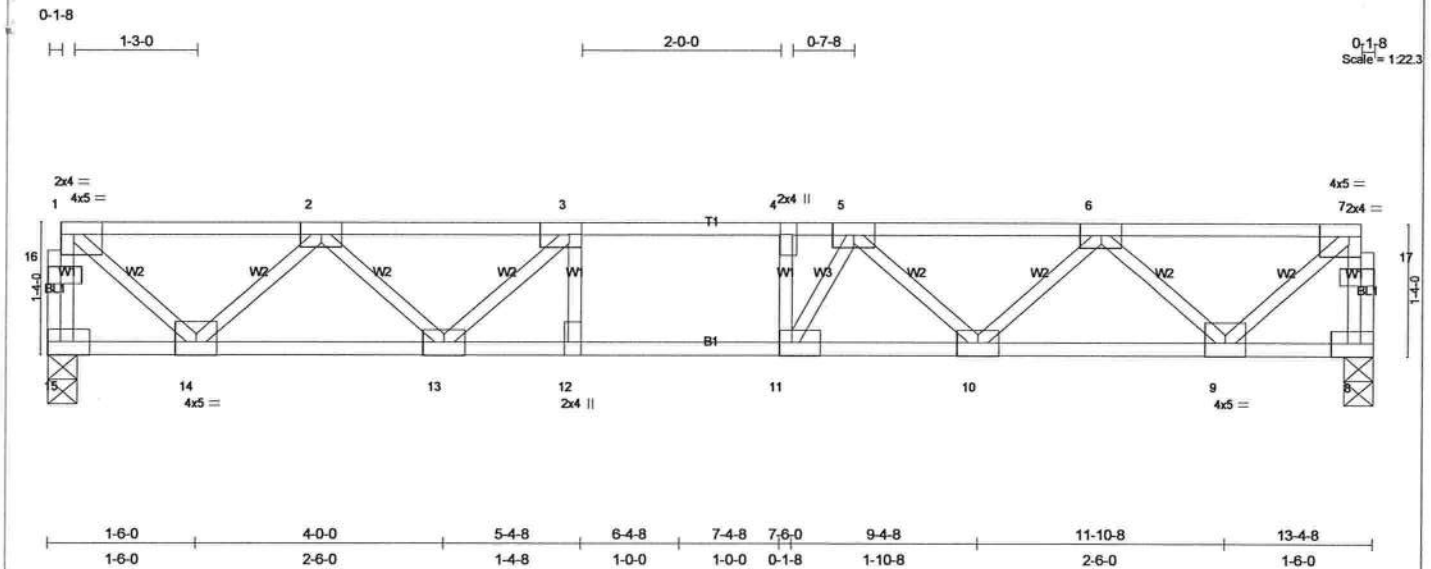


Plate Offsets (X,Y): [1-Edge,0-1-8], [3-0-1-8,Edge], [4-0-1-8,0-0-0], [7-0-1-8,Edge], [11-0-1-8,Edge], [12-0-1-8,Edge], [16-0-1-8,0-1-0], [17-0-1-8,0-1-0]											
LOADING (psf)		SPACING 2-0-0		CSI		DEFL in (loc) l/defl L/d				PLATES GRIP	
TCLL	40.0	Plates Increase	1.00	TC	0.39	Vert(LL)	-0.10	10-11	>999	360	MT20 244/190
TCDL	10.0	Lumber Increase	1.00	BC	0.63	Vert(TL)	-0.15	10-11	>999	240	
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.03	8	n/a	n/a	
BCDL	5.0	Code FBC2004/TP12002		(Matrix)							Weight: 70 lb

LUMBER	
TOP CHORD 4 X 2 SYP No.2	
BOT CHORD 4 X 2 SYP No.2	
WEBS 4 X 2 SYP No.3	
	BRACING
	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 15=716/0-3-8, 8=716/0-3-8

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 15-16=-712/0, 1-16=-711/0, 8-17=-710/0, 7-17=-709/0, 1-2=-697/0, 2-3=-1610/0, 3-4=-1926/0, 4-5=-1926/0, 5-6=-1610/0, 6-7=-697/0
BOT CHORD 14-15=-627/32, 13-14=0/1301, 12-13=0/1926, 11-12=0/1926, 10-11=0/1881, 9-10=0/1306, 8-9=0/37
WEBS 3-12=-62/132, 4-11=-250/41, 1-14=0/897, 2-14=-841/0, 2-13=0/444, 3-13=-522/0, 7-9=0/898, 6-9=-847/0, 6-10=0/422, 5-10=-377/0, 5-11=-134/383

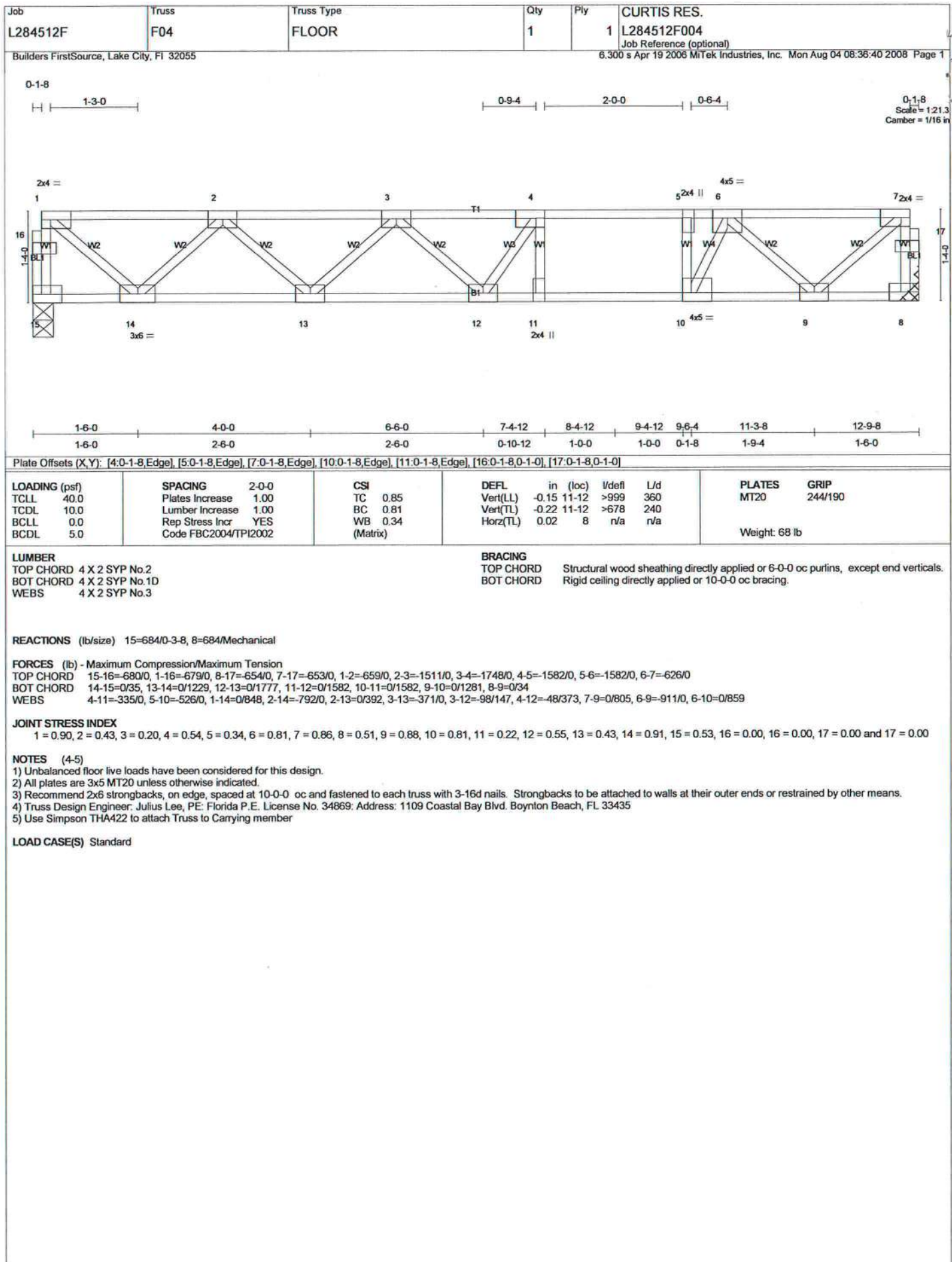
JOINT STRESS INDEX

1 = 0.54, 2 = 0.48, 3 = 0.28, 4 = 0.16, 5 = 0.63, 6 = 0.46, 7 = 0.54, 8 = 0.56, 9 = 0.66, 10 = 0.46, 11 = 0.63, 12 = 0.17, 13 = 0.48, 14 = 0.65, 15 = 0.56, 16 = 0.00, 16 = 0.00, 17 = 0.00 and 17 = 0.00

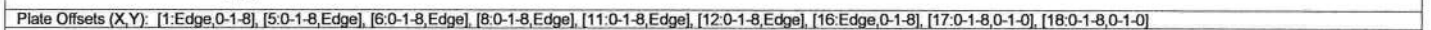
NOTES (4-5)

- 1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x5 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-16d nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
5)

LOAD CASE(S) Standard



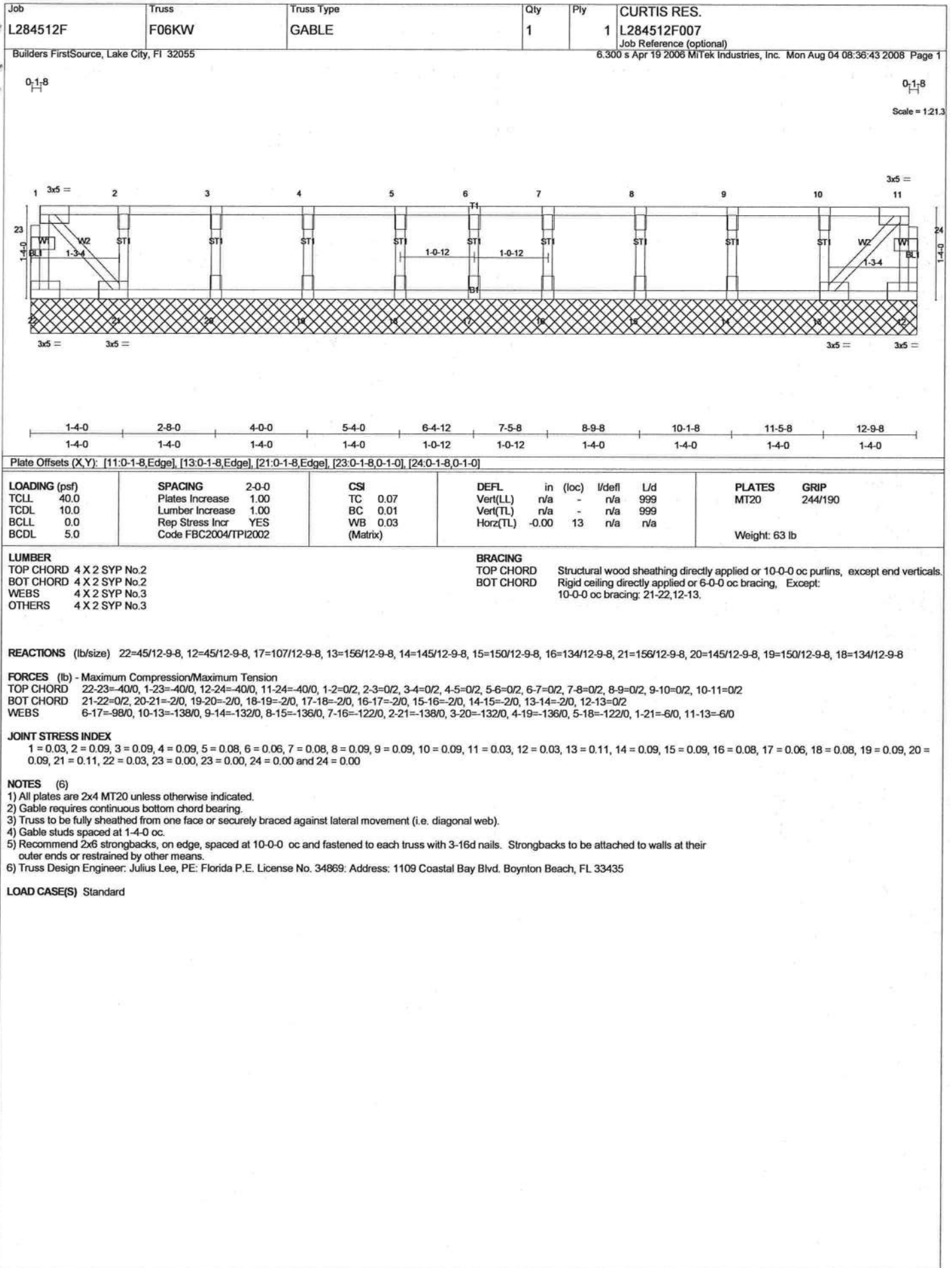
Builders FirstSource, Lake City, FL 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:36:41 2008 Page 1



LUMBER		BRACING	
TOP CHORD 4 X 2 SYP No.2		TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 4 X 2 SYP No.2		BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 4 X 2 SYP No.3			6-0-0 oc bracing: 15-16, 14-15.

LOAD CASE(S) Standard

LOAD CASE(S) Standard



STEPDOWN CORNER SET

TOP CHORD 2X4 SO. PINE #2 or Better
BOT CHORD 2X4 SO. PINE #2 or Better
WEBS 2X4 SO. PINE #3 or Better

120 MPH MAX

Setback 7' or Less

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.

UPLIFT: 400# or Less

BRG LOC: *

UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED. TILE

UPLIFT: 400# or Less

BRG LOC: *

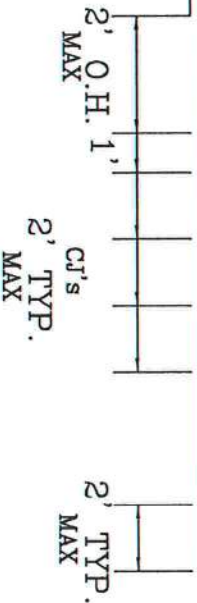
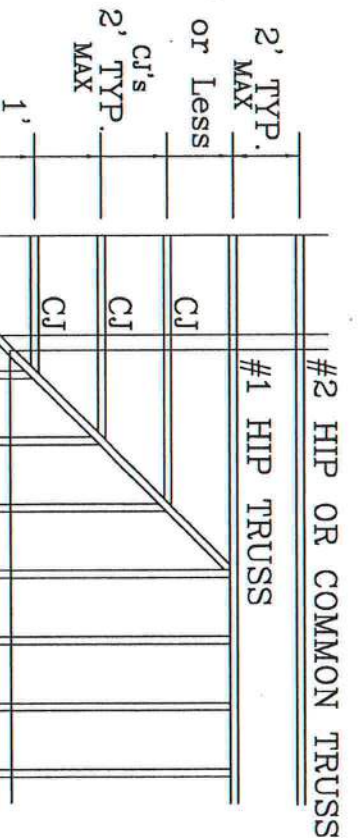
UPLIFT BASED ON 15.0 PSF TOTAL DEAD LOAD. WIND SPEED=120 "C" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)

PROVIDE UPLIFT CONNECTIONS AT BEARINGS AS INDICATED.

UPLIFT: 400# or Less

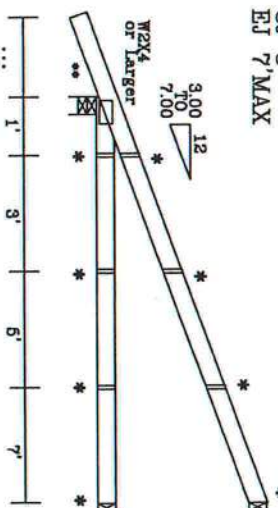
BRG LOC: *

UPLIFT BASED ON 7.2 PSF TOTAL DEAD LOAD. WIND SPEED=120 "B" MPH. MEAN HGT (of jacks)=28 FT. ENCLOSED. (ASCE 7-02)



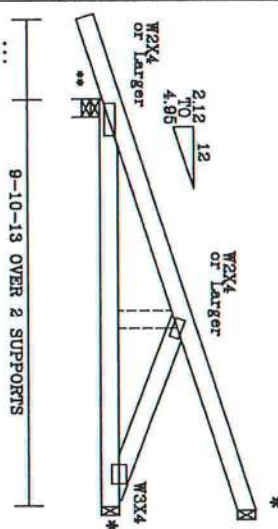
ALL HEELS TO BE STANDEAR WITH NO CANTILEVER

CJ 1'
CJ 3'
CJ 5'
EJ 7'MAX



ALL HEELS TO BE STANDEAR WITH NO CANTILEVER

HJ



HIPJACK

UPLIFT VALUES DO TAKE INTO ACCOUNT PORCHES EXPOSED
BC LIVE LOAD IS NON CONCURRENT 10*

* (3) 16d TOENAILS
** SEE EOR FOR TIE DOWN

CORNER SET
SETBACK

7'0" MAX

REMARKS: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST 1-63 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 388 DOWNSIDE DR., SUITE 200, MADISON, WI 53719 AND VITA CYCLO TRUSS COUNCIL OF AMERICA, 6900 ENTERPRISE LN, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT: FINISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONNECTIONS WITH APPLICABLE PROVISIONS OF NDS QUALITY DESIGN SPEC BY AF&PA AND TPI. ALPINE CONNECTOR PLATES ARE MADE OF 60/18/16GA (VIA/SAO ASTM A653 GRADE 40/60 CV/HA/50 GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 1604-2. ALL INSTALLATION OF TRUSSES SHALL BE PERFORMED BY A QUALIFIED PERSONNEL. THE DESIGNER'S RESPONSIBILITY FOR THE TRUSS STABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.

DESIGNED BY
CHECKED BY
DATE 10/27/2008
STATE OF
PROFESSIONAL ENGINEER

MEMBER	TYPE	SIZE	MAX PSF	REF
TOP CHORD	TL	2X4	20	7' MAX STBK CS
BOT CHORD	BL	2X4	20	
WEBS	DL	2X4	20	
BRG	DL	2X4	20	
CL	DL	2X4	20	
DL	DL	2X4	20	
DRWG	DATE	Jun./27/2008		
ENG	DATE	Jun./27/2008		
REVIEWED	DATE	Jun./27/2008		
By Julius Lee at 10:52 am, Jun 27, 2008				

GROUP A:	
SPRICE-PINE-YR	HQ-YR
#1 / #2 STANDARD	#2 STD
#3 STD	#3 STANDARD
DOUGLAS FIR-LARCH	
#2 STD	#3 STD
STANDARD	STANDARD
SOUTHERN PINE	
#3 STD	#3 STD
STANDARD	STANDARD

SOUTHERN PINE		DOUGLAS FIR-LARCH	
#1		#1	
#2		#2	

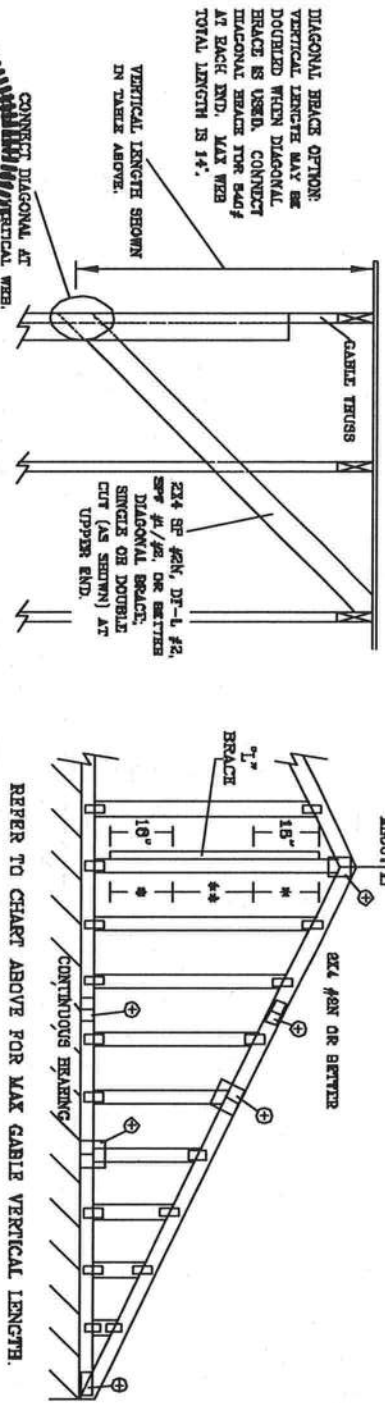
KID-PIR	
#1 & BITE	
#1	

LIVE LOAD DEFLECTION CRITERIA IS $L/240$.
 PROVIDE UPLIFT CONNECTIONS FOR 156 PLF OVER
 CONTINUOUS BEARING (6 PSF TC DEAD LOAD).
 CABLE END SUPPORTS LOAD FROM 4" O"
 OUTLOOKERS WITH 8" O" OVERHANG, OR 12"
 PLYWOOD OVERHANG.

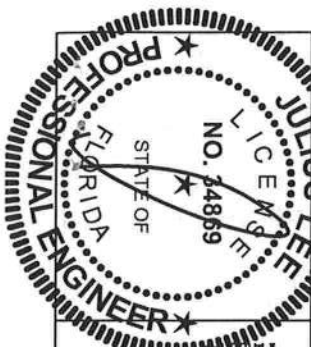
ATTACH EACH T² BRACE WITH 104 NAILS.
* FOR (1) T² BRACE: SPACE NAILS AT 8" O.C.
IN 1ST END ZONE AND 4" O.C. BETWEEN ZONES
** FOR (2) T² BRACES: SPACE NAILS AT 3" O.C.
IN 1ST END ZONE AND 6" O.C. BETWEEN ZONES
T² BRACING MUST BE A MINIMUM OF 80% OF TOTAL
KINDER LENGTH.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO SPILLOVER
LESS THAN 4' 0"	1X4 OR 2X3
GREATER THAN 4' 0", BUT LESS THAN 11' 8"	2X4
GREATER THAN 11' 8"	2.5X4

+ REFER TO COLUMN TIEUS DESIGN FOR
PEAK, SPLICE, AND BEEL PLATES.



REFER TO CHART ABOVE FOR MAX GABLE VERTICAL LENGTH



THESE REQUIRED EXTENSIVE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BIRKING. REFER TO BIDS 1-40 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI TRUSS MANUFACTURING INSTITUTE, 582 DORCHESTER RD., SUITE 200, MARIETTA, GA 30067 AND VITA (WOOD TRUSS COUNCIL), ENTERPRISE LN, WILSON, VI 50715 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL MEMBERS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

REVIEWED
By Julius Lee

By Julius Lee at 12:00 pm, Jun 11, 2008

No. 34869
STATE OF FLORIDA

MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

REF	ASCE7-02-GABI3015
DATE	11/26/03
DRWG	WTRK STD GABL 15 E HT
-ENG	

—ENG

MAX GABLE VERTICAL LENGTH														
CABLE VERTICAL SPACING	BRACE SPECIES	GRADE	NO BRACES	BRACE										
				(1) 1X4 "L" BRACE *	(1) 2X4 "L" BRACE *	(2) 2X4 "L" BRACE **	(1) 2X6 "L" BRACE *	(2) 2X8 "L" BRACE *	(2) 2X8 "L" BRACE *	(2) 2X8 "L" BRACE *				
24" O.C.	SPF	#1 / #2	3" 2"	5" 6"	6" 8"	6" 6"	6" 9"	7" 10"	8" 0"	10" 3"	10" 7"	12" 3"	12" 7"	
			#3	3" 1"	4" 5"	6" 10"	5" 10"	7" 10"	7" 10"	9" 1"	9" 1"	12" 3"	12" 3"	
		STUD	3" 1"	4" 6"	4" 5"	5" 10"	6" 10"	7" 10"	7" 10"	9" 1"	9" 1"	12" 3"	12" 3"	
			STANDARD	2" 11"	3" 9"	3" 9"	6" 0"	5" 0"	6" 9"	6" 9"	7" 10"	7" 10"	10" 7"	10" 7"
		HF	#1	3" 6"	5" 6"	5" 11"	6" 8"	7" 0"	7" 10"	8" 5"	10" 3"	11" 1"	12" 3"	13" 2"
			#2	3" 6"	5" 6"	5" 11"	6" 8"	7" 0"	7" 10"	8" 5"	10" 3"	11" 1"	12" 3"	13" 2"
	SP	#3	3" 3"	4" 6"	4" 6"	6" 0"	6" 0"	7" 10"	8" 1"	9" 4"	9" 4"	12" 3"	12" 6"	
			STUD	3" 3"	4" 6"	4" 6"	6" 0"	6" 0"	7" 10"	8" 0"	9" 3"	9" 3"	12" 3"	12" 6"
		STANDARD	3" 0"	3" 10"	3" 10"	6" 1"	5" 1"	6" 11"	6" 11"	8" 0"	8" 0"	10" 10"	10" 10"	
			#1 / #2	3" 8"	6" 4"	6" 6"	7" 8"	7" 8"	8" 11"	9" 2"	11" 9"	12" 1"	14" 0"	14" 0"
		SPF	#3	3" 7"	5" 5"	5" 5"	7" 2"	7" 2"	8" 11"	8" 11"	11" 2"	11" 2"	14" 0"	14" 0"
			STUD	3" 7"	5" 6"	6" 5"	7" 2"	7" 2"	8" 11"	8" 11"	11" 1"	11" 1"	14" 0"	14" 0"
16" O.C.	HF	STANDARD	3" 7"	4" 6"	4" 8"	6" 2"	6" 2"	8" 3"	8" 3"	9" 7"	9" 7"	12" 11"	12" 11"	
			#1	4" 0"	6" 4"	6" 10"	7" 8"	6" 1"	8" 11"	8" 7"	11" 9"	12" 8"	14" 0"	
		SP	#2	3" 11"	6" 4"	6" 10"	7" 8"	8" 1"	8" 11"	9" 7"	11" 9"	12" 8"	14" 0"	
			#3	3" 9"	5" 7"	6" 7"	7" 4"	7" 4"	8" 11"	9" 6"	11" 5"	11" 6"	14" 0"	
		STUD	3" 8"	5" 8"	6" 7"	7" 3"	7" 3"	8" 11"	9" 5"	11" 4"	11" 4"	14" 0"	14" 0"	
			STANDARD	3" 6"	4" 9"	4" 9"	6" 3"	6" 3"	8" 5"	8" 5"	9" 8"	9" 8"	13" 3"	13" 3"
	DFL	#1 / #2	4" 0"	6" 11"	7" 2"	6" 3"	8" 6"	9" 10"	10" 1"	12" 11"	13" 4"	14" 0"	14" 0"	
			#3	3" 11"	6" 3"	6" 3"	6" 3"	8" 3"	9" 10"	9" 10"	12" 11"	12" 11"	14" 0"	
		STUD	3" 11"	6" 3"	6" 3"	6" 3"	8" 3"	9" 10"	9" 10"	12" 11"	12" 11"	14" 0"	14" 0"	
			STANDARD	3" 11"	6" 3"	6" 3"	6" 3"	8" 3"	9" 10"	9" 10"	12" 11"	12" 11"	14" 0"	14" 0"
		HF	#1	4" 4"	6" 11"	7" 8"	8" 3"	8" 11"	9" 10"	10" 4"	12" 11"	13" 1"	14" 0"	
			#2	4" 4"	6" 11"	7" 8"	8" 3"	8" 11"	9" 10"	10" 4"	12" 11"	13" 1"	14" 0"	
12" O.C.	SP	#3	4" 2"	6" 6"	6" 5"	8" 3"	8" 6"	9" 10"	10" 4"	12" 11"	13" 1"	14" 0"		
			STUD	4" 0"	6" 4"	6" 4"	8" 3"	8" 6"	9" 10"	10" 4"	12" 11"	13" 1"	14" 0"	
		STANDARD	4" 0"	5" 6"	5" 6"	7" 3"	7" 3"	8" 9"	9" 9"	11" 4"	11" 4"	14" 0"		
			DFL	4" 0"	5" 6"	5" 6"	7" 3"	7" 3"	8" 9"	9" 9"	11" 4"	11" 4"	14" 0"	

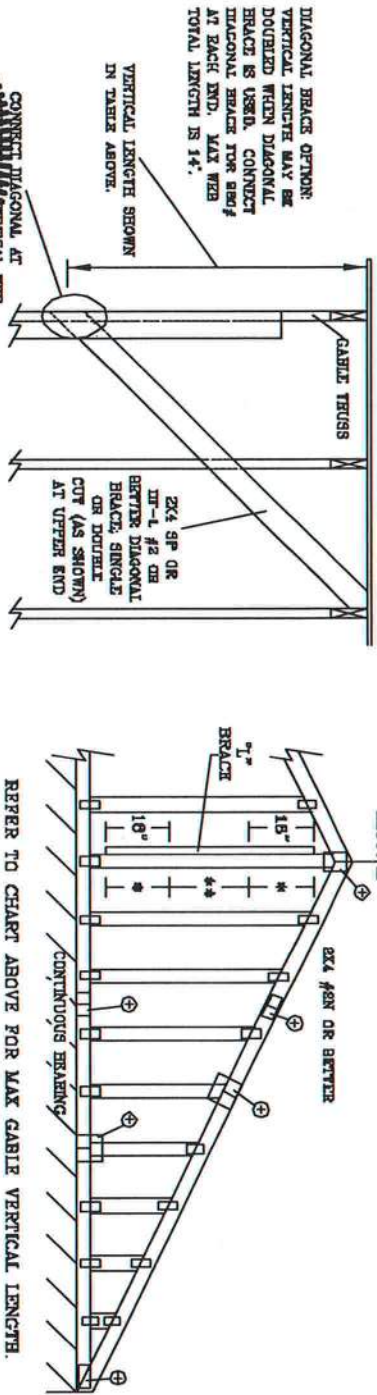
BRACING GROUP SPECIES AND GRADES:	
GROUP A:	
SPURGE-PINE-TR #1 / #2 STANDARD #3 STUD	RED-FIR #2 STUD #3 STANDARD
DOUGLAS FIR-LARGE #3 STUD STANDARD	SOUTHERN PINE #3 STUD STANDARD

GROUP B:	
SOUTHERN PINE #1 #2	FOM-PIN #1 & BITE #1
DOUGLAS FIR-LARCH #1 #2	

CABLE TRUSS DETAIL NOTES:
LIVE LOAD DEFLECTION CONTROL IS $L/240$.
PROVIDE UPLIFT CONNECTIONS PER 160 PLF OVER
CONTINUOUS BEARING (6 PSF TO DEAD LOAD).
CABLE END SUPPORTS LOAD FROM $\pm 0"$
DOWNWARDS WITH 3" $\pm 0"$ OVERLAP, OR 12"
EXTENDED OVERLAP.

CABLE VERTICAL PLATE SIZES	
VERTICAL LENGTH	NO. SPICES
LESS THAN 4" 0"	1X4 OR 2X3
GREATER THAN 4" 0", BUT LESS THAN 11" 6"	2X4
GREATER THAN 11" 6"	2X6X

+ REFERS TO COLUMN TISSUE DESIGN FOR
PEAK, SPURCE, AND BECK PLANTER.

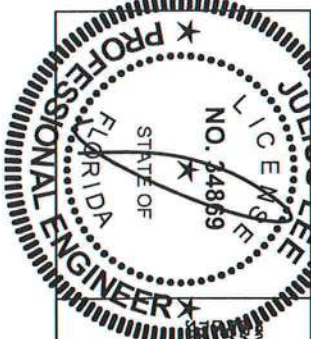


DIAGONAL BRACE OPTION:
VERTICAL LENTHS MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED. CONNECT
DIAGONAL BRACE TO BEG
AT EACH END. MAX WEB
TOTAL LENGTH IS 14'.

VERTICAL LENGTH
IN TABLE ABOVE.

CONNECT DIAGONAL AT
 45 DEGREE TO THE HORIZONTAL

REFER TO CHART ABOVE FOR MAX CABLE VERTICAL LENGTH



SPRINKLER TRIPS REQUIRING EXTENSIVE CARE & FABRICATING, HANGING, SHIPING & INSTALLING AND REPAIRING, REFER TO BEST 1-103 CALLING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE STRUSS INSTITUTE, 3843 ENTERPRISE BL, SUITE 200, MADISON, WI 53719 AND VICA (VIA) TRUSS EDUCATIONAL CENTER, 6600 ENTERPRISE BL, MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP GORDON SHALL HAVE PROPERLY ATTACHED ELECTRICAL PANELS AND BOLLTON GORDON SHALL HAVE PROPERLY ATTACHED CEILING

JULIUS LEE'S
CONS. ENGINEERS P.A.

1700 ON THE AVENUE
DELBAY BEACH, FL. 33444-2161

REVIEWED

By Julius Lee at 12:00 pm, Jun 11, 2008

No: 34868
STATE OF FLORIDA

MAX. TOT. LD. 60 PSI

MAX. SPACING 24.0"

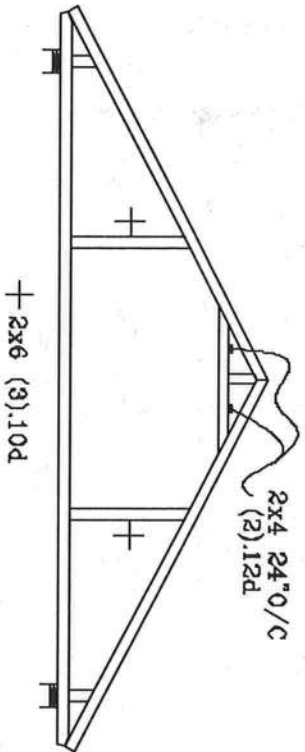
REF ASCB7-02-CAB1303

DATE 11/26/03

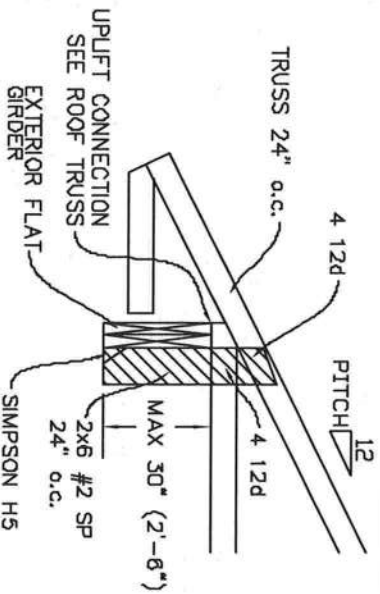
DWCG MITEK STD CABLE 30' E H

—ENG

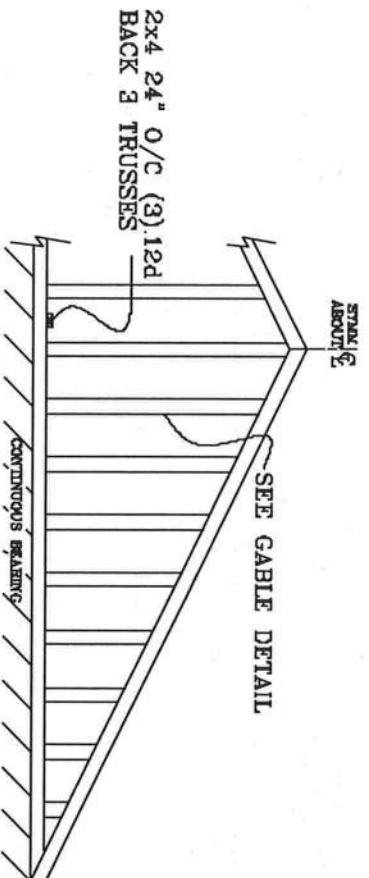
TYPICAL ATTIC TRUSS BRACING



TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS

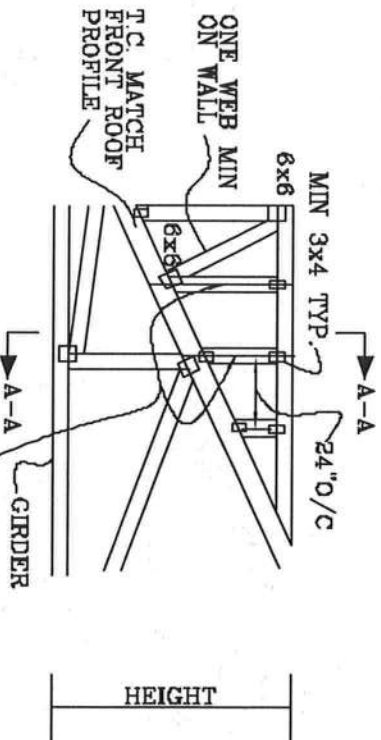


GABLE END TRUSS DETAIL

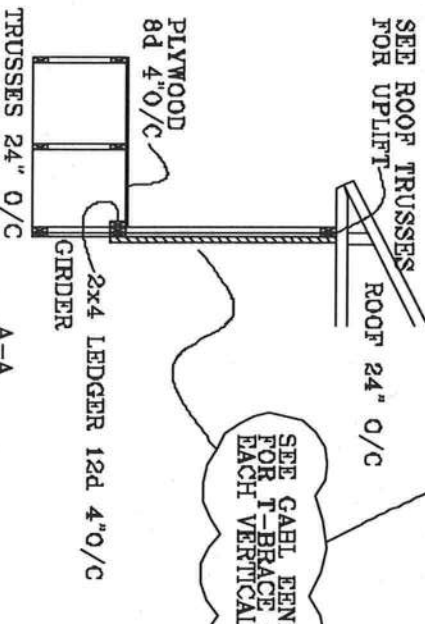
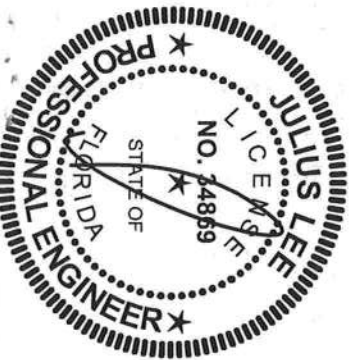


MINIMUM BC BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



REVIEWED
By Julius Lee at 11:58 am, Jun 11, 2008



SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 43rd AVENUE
DIDELOT BRANCH, FL 33444-2161

No. 34869
STATE OF FLORIDA

PIGGYBACK DETAIL

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

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

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH 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 BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST

CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, FBC

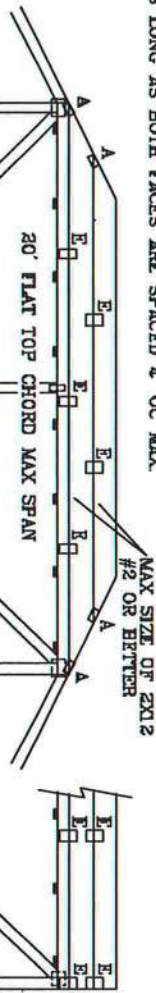
ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

WIND TC DL=5 PSF, WIND BC DL=5 PSF

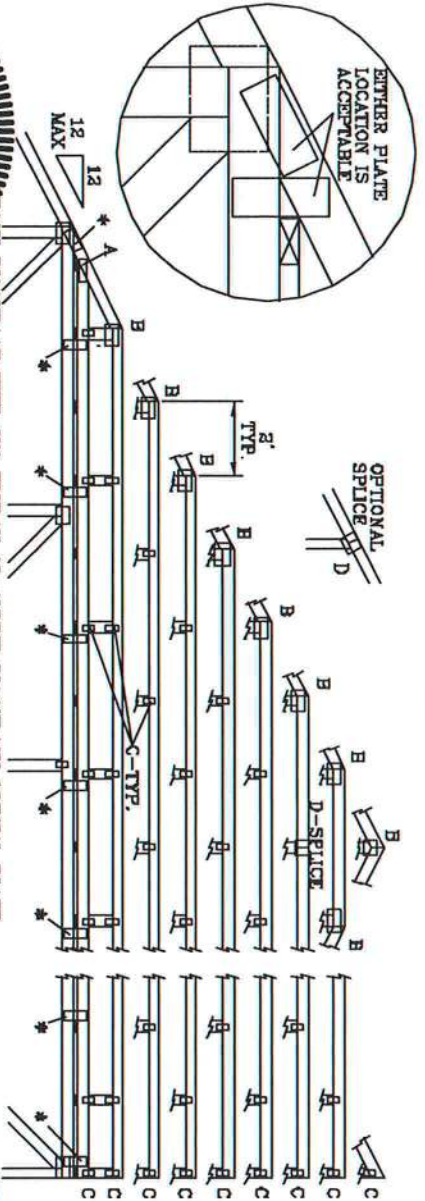
FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE

PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF



OPTIONAL
SPLICE
D



THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 647.045

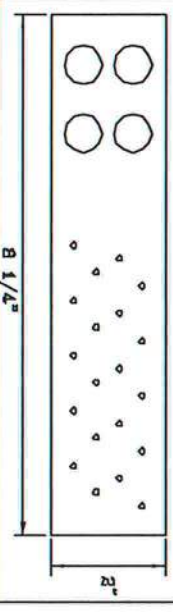
JOINT TYPE	SPANS UP TO			
	30'	34'	38'	62'
A	2X4	2.5X4	2.5X4	3X6
B	4X6	6X6	6X6	5X8
C	1.5X3	1.5X4	1.5X4	1.5X4
D	5X4	6X6	6X5	5X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY			

ATTACH TRUSS PLATES WITH (8) 0.120" X 1.375" NAILS, OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRUSS INFORMATION.

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 6d NAILS AT 4' OC.
10' TO 14'	2X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80% LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.

* PIGGYBACK SPECIAL PLATE

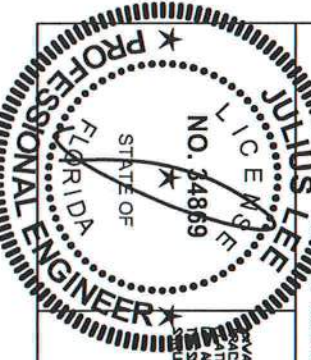
ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



JULIUS LEE'S
CONS. ENGINEERS P.A.
1460 SW 4th AVENUE
DUNBAR BRIDGE, FL 33444-2461

MAX LOADING
55 PSF AT
1.33 DUR. FAC.
50 PSF AT
1.25 DUR. FAC.
47 PSF AT
1.15 DUR. FAC.
SPACING 24.0"

REF PIGGYBACK
DATE 09/12/07
DRWG/MTK STD PIGGY
-ENG JL



REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

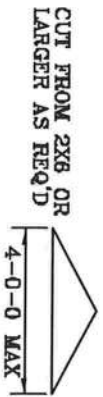
No. 34869
STATE OF FLORIDA

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

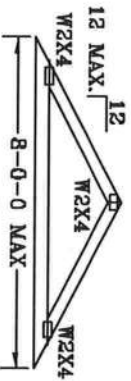
* 2X3 MAY BE RIPPED FROM A 2X6 (PITCHED OR SQUARE).

ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH:

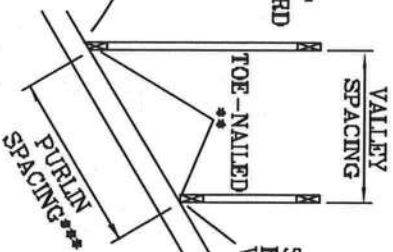
(2) 16d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR
FBC 2004 110 MPH. ASCE 7-02 110 MPH WIND OR (3) 16d FOR
ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENCLOSED
BUILDING, EXP. C, RESIDENTIAL, WIND TC DL=5 PSF.



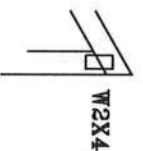
CUT FROM 2X6 OR
LARGER AS REQ'D



PITCHED CUT
BOTTOM CHORD
VALLEY



SQUARE CUT
BOTTOM CHORD
VALLEY



OPTIONAL STUB
END DETAIL



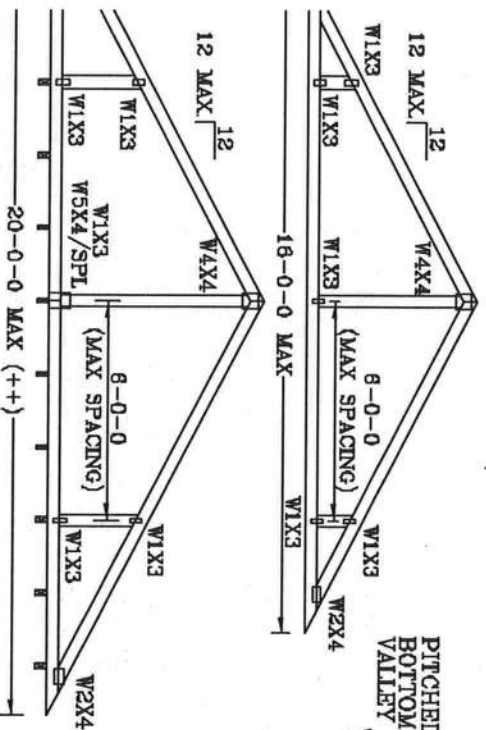
OPTIONAL HIP
JOINT DETAIL.

*** 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.

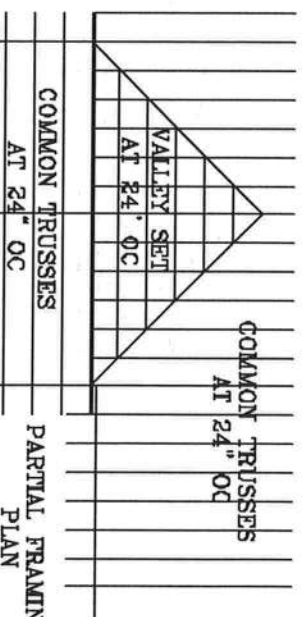
++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES NOT EXCEED 12'0".

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN.

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN



TRUSSES AT 24" OC MAXIMUM SPACING.



MON TRUSSES
AT 24" OC

PARTIAL FRAMING PLAN

THIS DRAWING REPLACES DRAWING A105

[illegible]

JULIUS LEE'S
CONS. ENGINEERS P.A.

1455 SW 4th AVENUE
DELRAY BEACH, FL 33444-2161

		REF	VALLEY DETAIL
TC LL	20	PSF	
TC DL	7	PSF	DATE 11/26/03
BC DL	5	PSF	
		DRWG	VALTRUSS1103

BC IL	0	0	PSF	-ENG	JL
-------	---	---	-----	------	----

TOT. ID.	32	40	PST
----------	----	----	-----

DUR.FAC.1.25	1.25
--------------	------

SPACING	24"
---------	-----

REVIEWED
By *julius lee* at 11:59 am, Jun 11, 2008

No: 34869

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DUK.FAC. 1.25	1.25
SPACING	24"

1

TOE-NAIL DETAIL

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 - EDGE DISTANCE, END DISTANCE, SPACING, EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD.

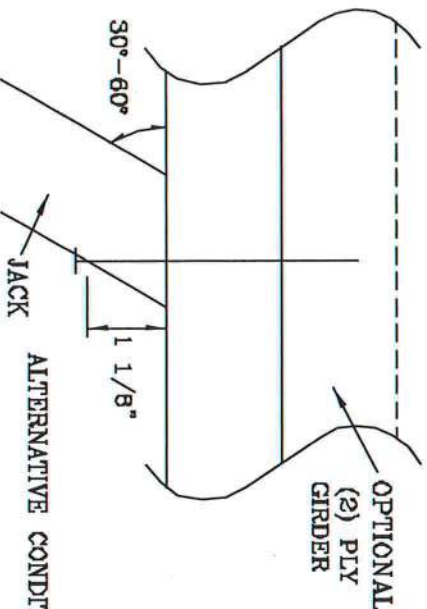
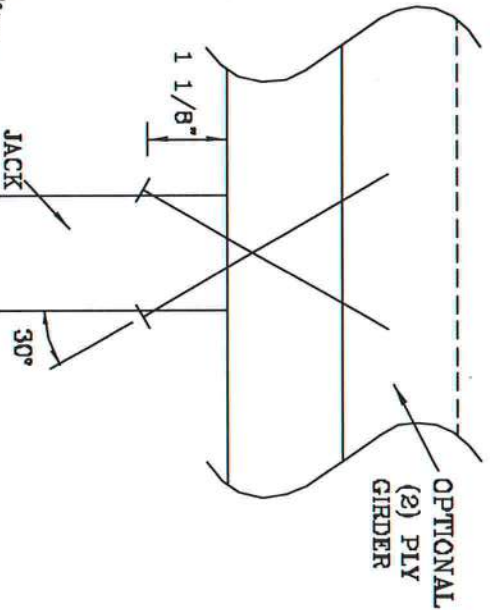
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

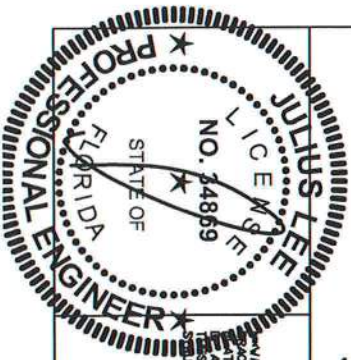
MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"x3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS
2	187#	256#	181#	234#	156#	203#	154#	189#
3	286#	383#	271#	351#	234#	304#	230#	288#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	496#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.



THIS DRAWING REPLACES DRAWING 784040



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTING. REFER TO BEST 1-83 CHAIRING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS MANUFACTURERS ASSOCIATION, 588 PINEHURST DR., SUITE 200, NATION, VA 22640. TRUSS DESIGN, CONSTRUCTION, ERECTION, AND MAINTENANCE REQUIREMENTS. THESE PRACTICES SHALL BE FOLLOWED. THE CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BATTEN CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

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1400 4TH AVENUE
DELRAY BEACH, FL 33444-2161

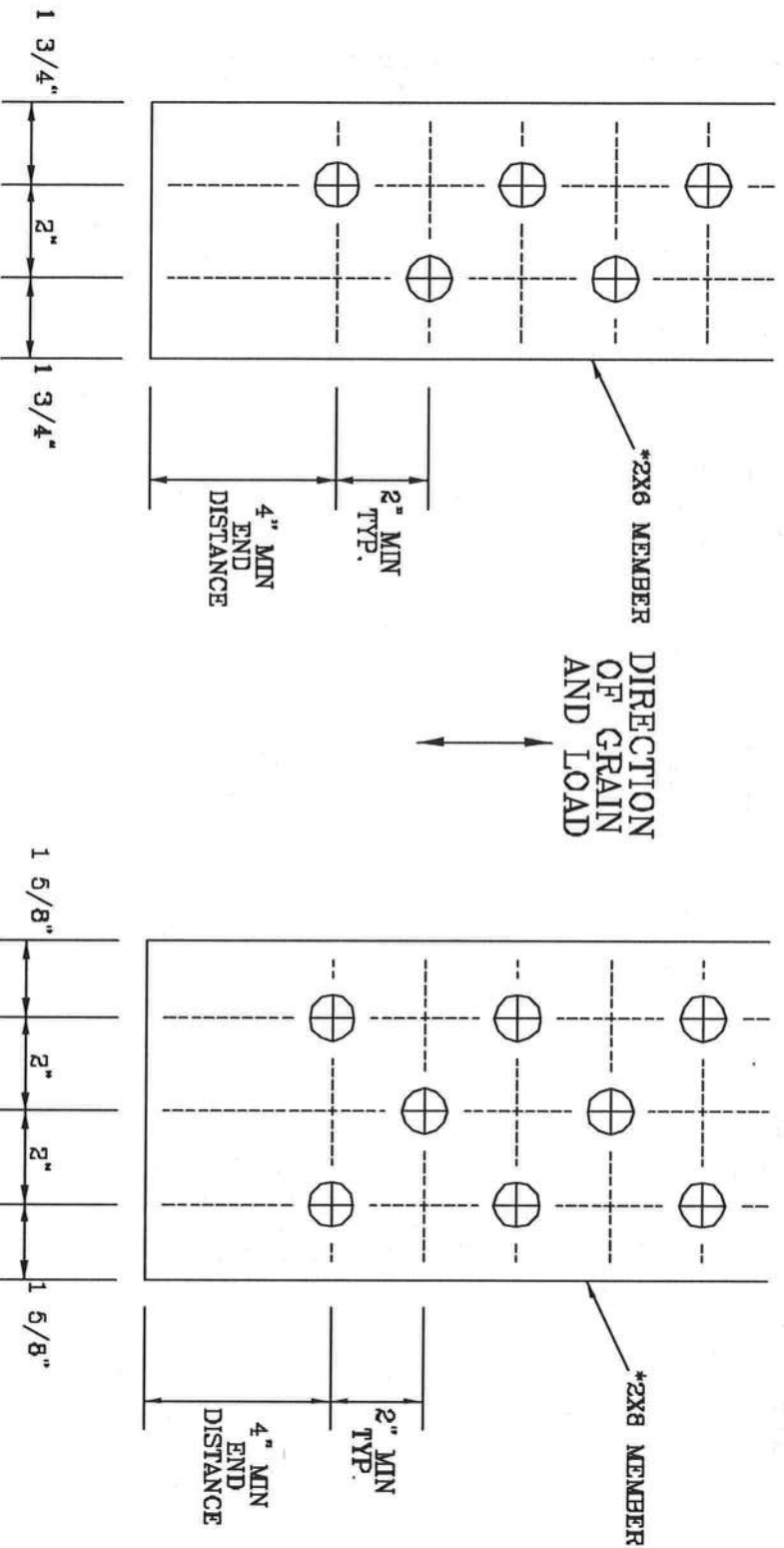
No. 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAH1103
BC LL	PSF	ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

1/2" 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 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT



2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A020.016

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTION. REFER TO BCST T-83 BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS ASSOCIATION, 1400 ST. ALB. AVENUE, SUITE 400, FAIRFAX, VA 22031 AND AIA/CES TRUSS COUNCIL, 1400 ST. ALB. AVENUE, SUITE 400, FAIRFAX, VA 22031. THESE FUNCTIONS, UNLESS OTHERWISE INDICATED, THE OWNER SHALL HAVE RESPONSIBILITY FOR THE STRUCTURAL, PANELS AND EDITION CHORD SHALL HAVE A PROPERLY ATTACHED RIBBON DESIGN.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1400 ST. ALB. AVENUE
DIETARY BEACH, FL 33444-2461

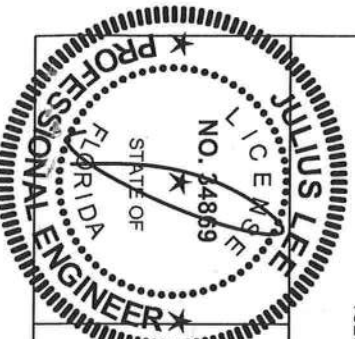
TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLTSPI103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		

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No. 34869
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DUR. FAC.
SPACING



TRULOX CONNECTION DETAIL

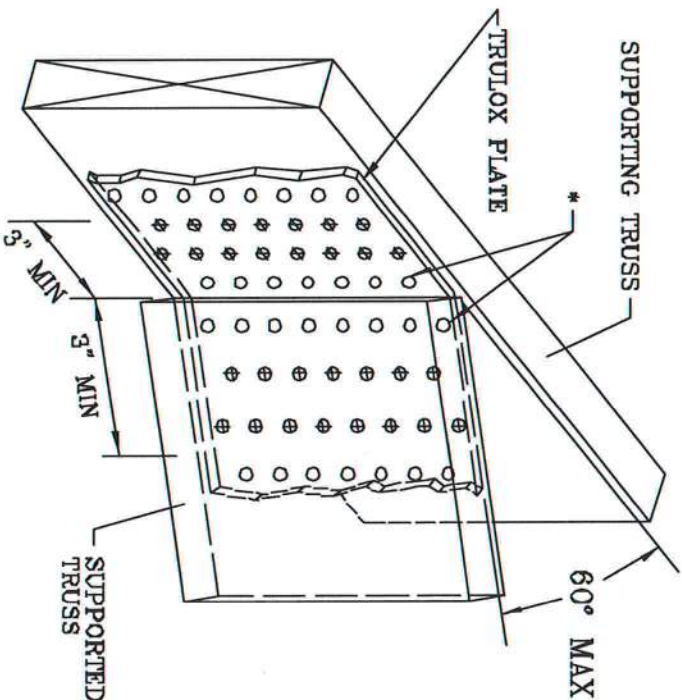
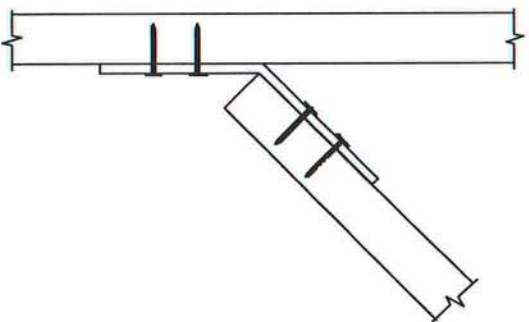
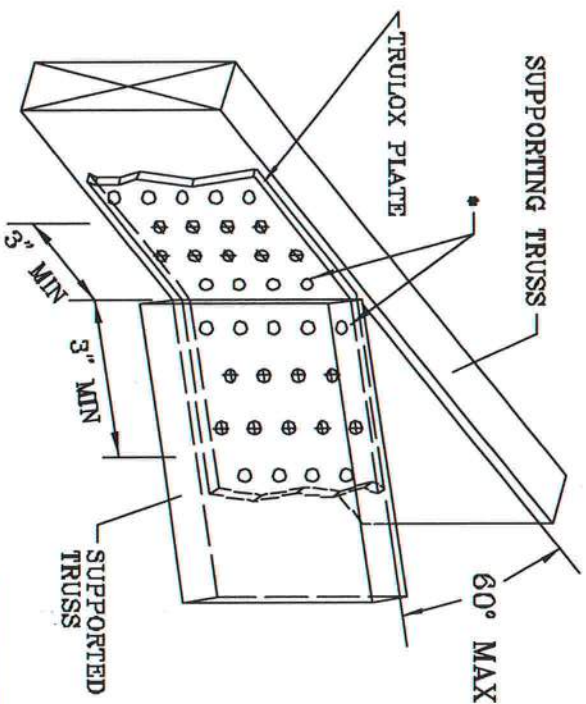
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

* NAILS MAY BE OMITTED FROM THESE ROWS.

THIS DETAIL MAY BE USED WITH SO, PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

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.



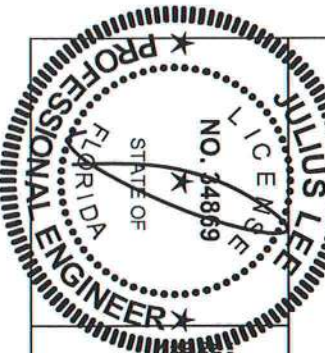
MINIMUM 3X6 TRULOX PLATE

MINIMUM 5X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
6X6	15	990#

REVIEWED
By Julius Lee at 11:58 am, Jun 11, 2008

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



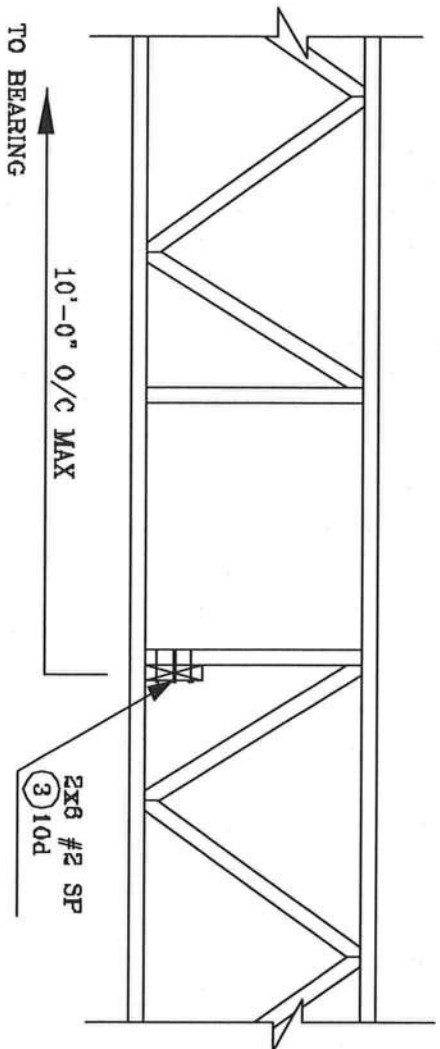
WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND PACKAGING. REFER TO 3031-1-03 (BUILDING DEPARTMENT SAFETY DEPARTMENT, PUBLISHED BY THE TRUSS MANUFACTURING INSTITUTE, 383 DOWNTOWN DR., SUITE 200, NORTON, VA 22079) AND VITA (VITA TRUSS COMPANY, 1000 N. 10TH ST., SUITE 100, FORT WORTH, TX 76102) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THIS DETAIL SHALL BE USED FOR ALL TRUSSES ATTACHED TO ROOF, FLOOR, PANELS AND EXTERIOR CHORDS SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1455 SW 4th AVENUE
DECATUR, GA 30034-3001

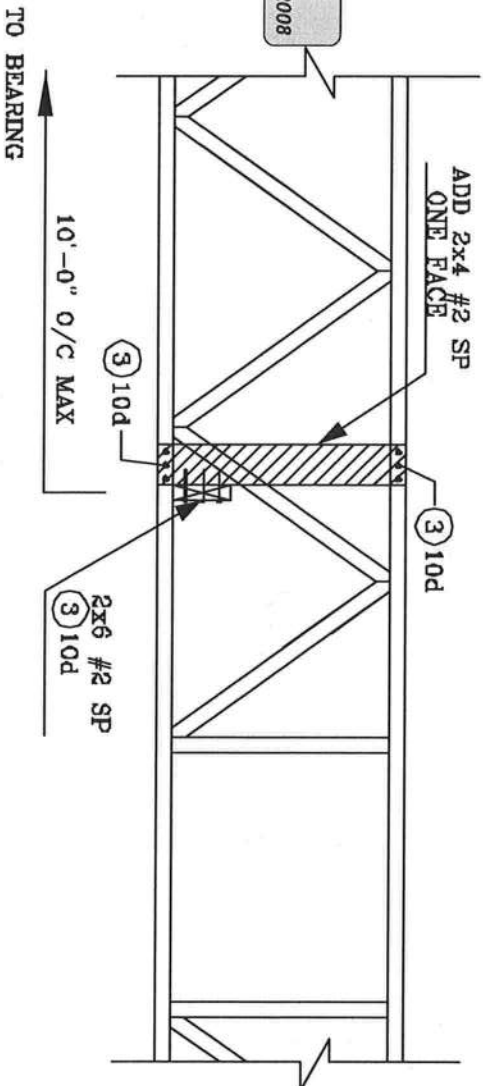
No. 34869
STATE OF FLORIDA

REF	TRULOX
DATE	11/26/03
DRWG	CNTRULOX1103
ENG	JL

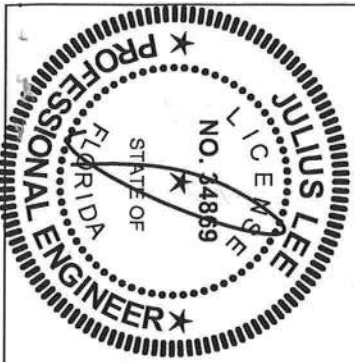
STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



REVIEWED
By Julius Lee at 11:58 am, Jun 11, 2008

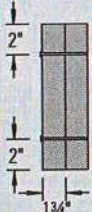
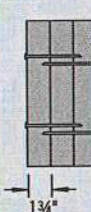
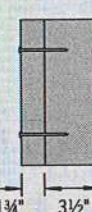


JULIUS LEE'S
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1456 SW 4th Avenue
Ocala, FL 33444-2661

No. 34869
STATE OF FLORIDA

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

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

(1) 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.

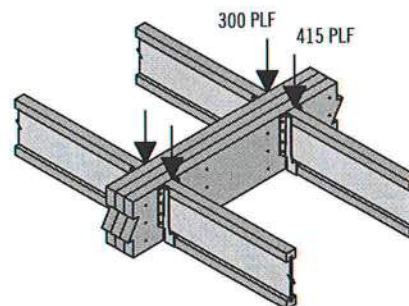
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(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 1/2 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



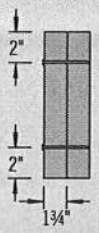
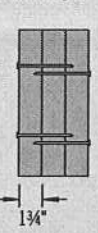
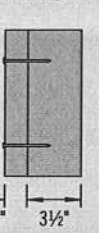
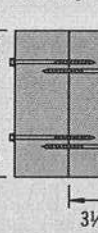
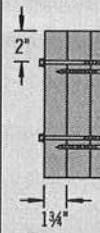
First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1 3/4" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center 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 3 1/2" screws at 19.2" on-center.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

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

Connector Type	Number of Connectors	Connector Pattern					
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
							
		3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 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 3 1/2" 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⁾
3/8" 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

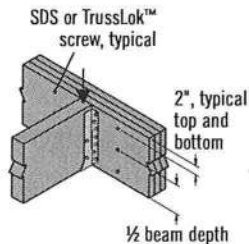
(2) 6" long screws required.

(3) 5" long screws required.

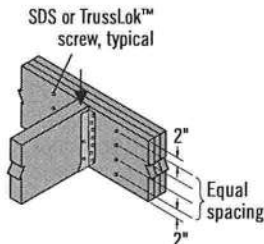
(4) 3 1/2" and 3 3/4" long screws must be installed on both sides.

Connections

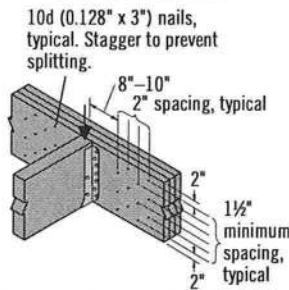
4 or 6 or Screw Connection



8 Screw Connection

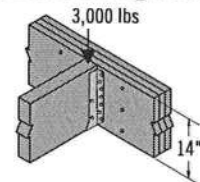


Nail Connection



There must be an equal number of nails on each side of the connection

Point Load Design Example



First, verify that a 3-ply 1 3/4" 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 1 3/4" assembly, eight 3/8" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1 3/4" 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 3 3/4" 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 1/2 of the required connector spacing.

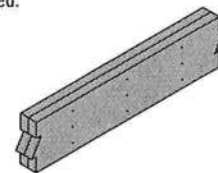
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

3 1/2" 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 1/2 of the required connector spacing.

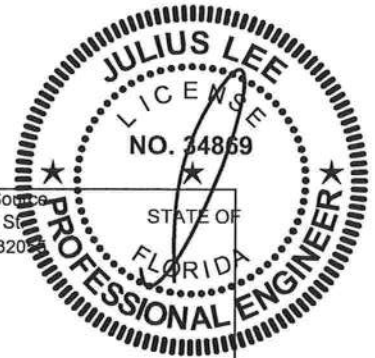
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

- Minimum of two rows of 1/2" 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"

L6



Project Information:

Builder: Cash Account
Model: CUSTOM
Builders FirstSource Job #: L284512
Street: 209 SW FARLINGTON COURT
City: Lake City
County: Columbia
Building Code: FBC2004/TPI2002
Computer Program Used: MiTek 6.3

Builders FirstSource
2525 E. Duval St.
Lake City, FL 32025

Truss Design Information:

Gravity Loads
Roof: 32 psf Total
Floor: 55 psf Total

Wind
Wind Standard: ASCE 7-02
Wind Speed: 110 mph
Mean Roof Ht: 22 ft

1455 sw 4th Ave
Delray Beach
Florida 33444

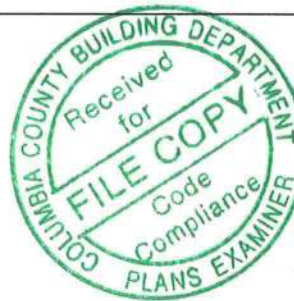
Note: Refer to individual truss design drawings for special loading conditions, design criteria, truss geometry, lumber, and plate information.

Design Professional Information:

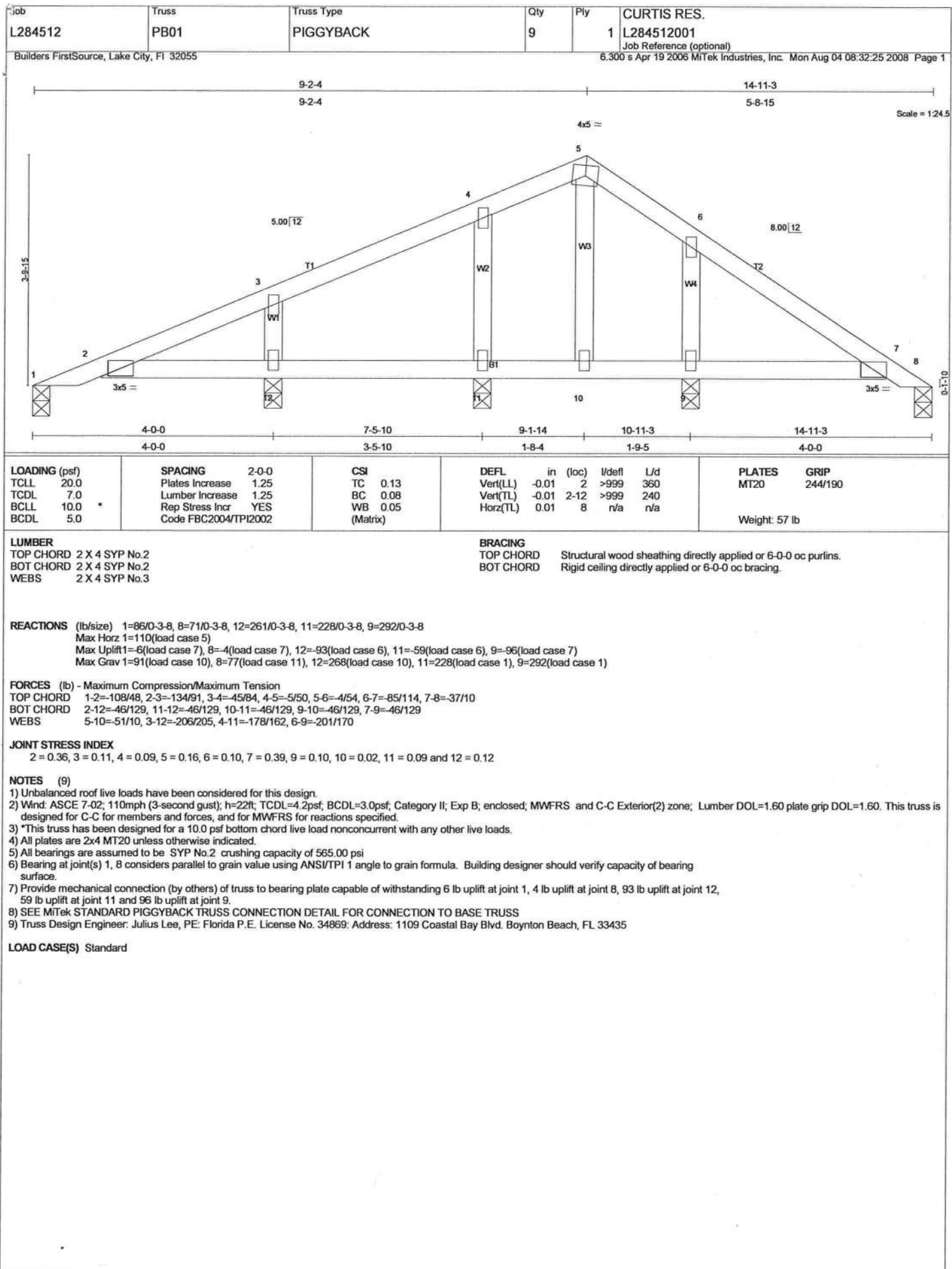
Design Professional Of Record: Owner Bldr.
Delegated Truss Engineer: Julius Lee

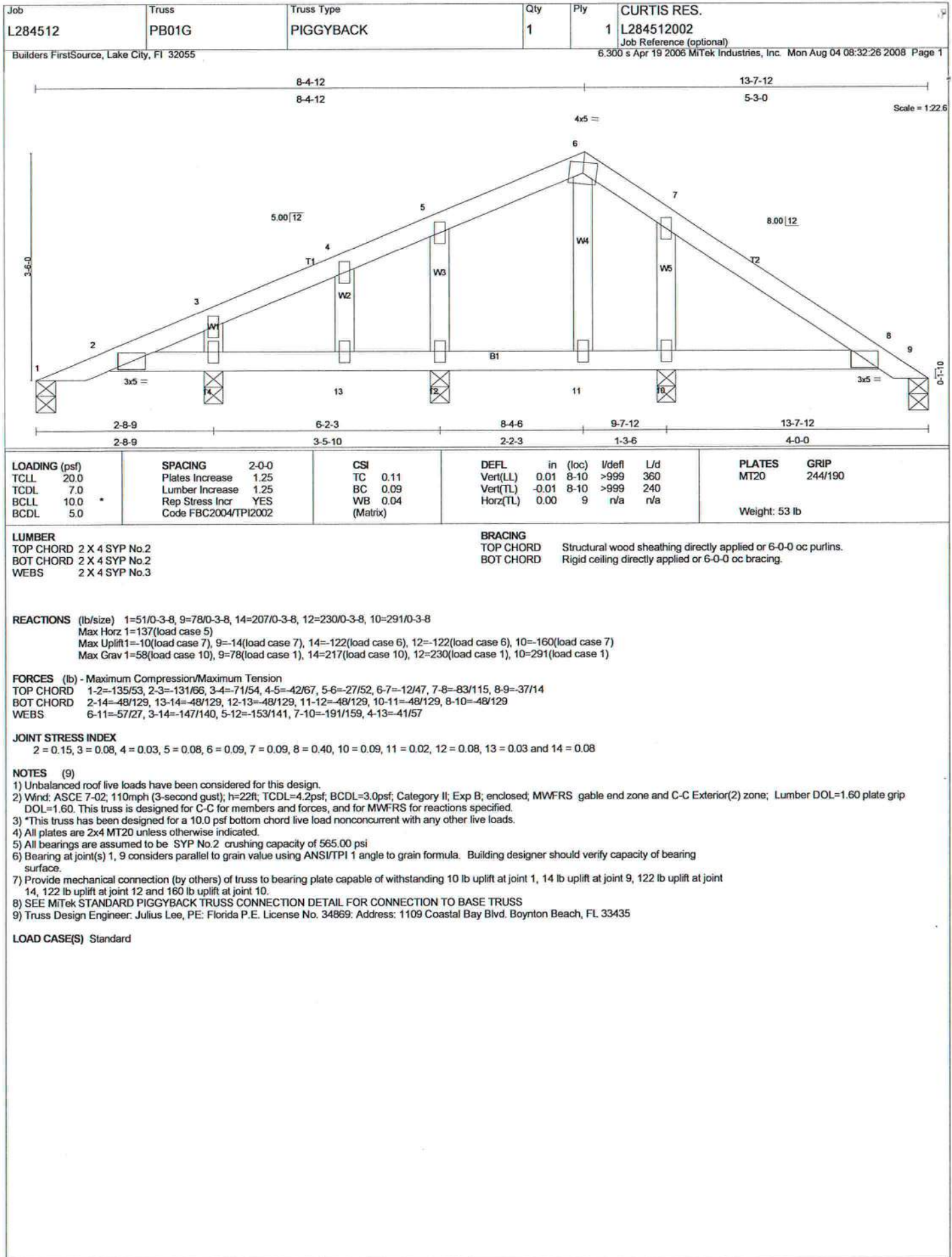
License # :
License # : 34869

This truss specification package consists of this index sheet and 22 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.

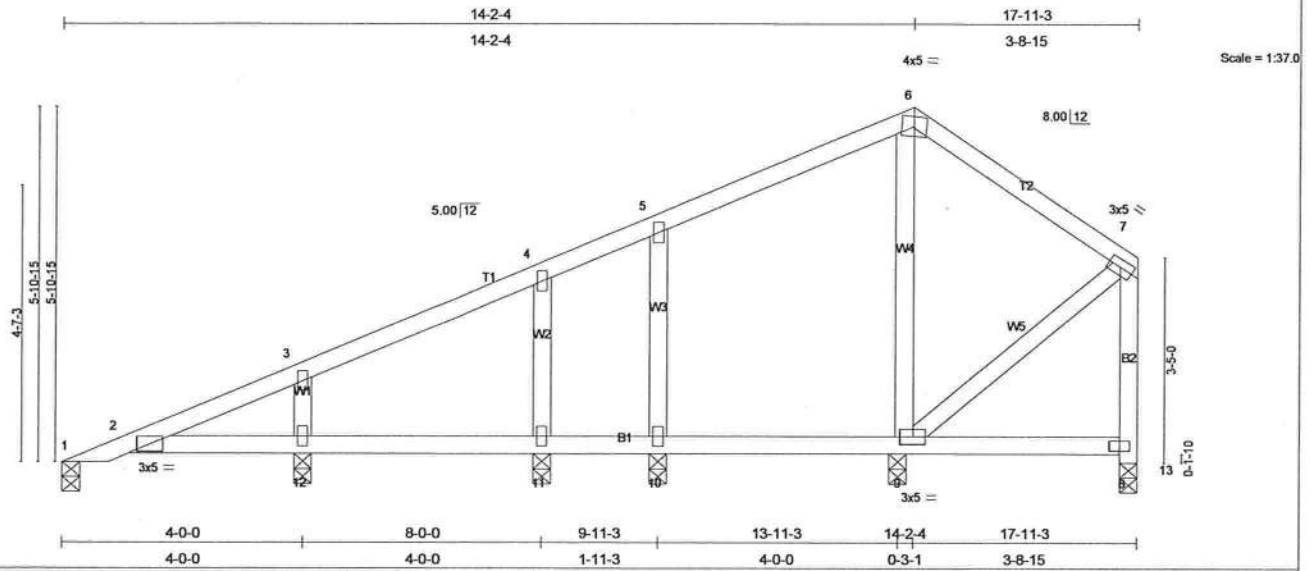
[illegible]

Project Information:				Builder: Cash Account				Builders FirstSource			
				Model: CUSTOM				2525 E. Duval St.			
Builders FirstSource Job #: L284512								Lake City, FL 32055			





Job L284512	Truss PB02	Truss Type PIGGYBACK	Qty 3	Ply 1	CURTIS RES. L284512003 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:27 2008 Page 1		



LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.09	Vert(LL) -0.01 2 >999 360		
BCLL 10.0	Lumber Increase 1.25	WB 0.13	Vert(TL) -0.01 2-12 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.00 12 n/a n/a		
	Code FBC2004/TPI2002			Weight: 84 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 2 X 4 SYP No.3	10-0-0 oc bracing: 8-9.

REACTIONS (lb/size) 1=88/0-3-8, 9=314/0-3-8, 12=294/0-3-8, 11=163/0-3-8, 10=201/0-3-8, 13=69/0-3-8
Max Horz 1=167(load case 5)
Max Uplift 9=32(load case 7), 12=107(load case 6), 11=58(load case 6), 10=77(load case 6), 13=30(load case 7)
Max Grav 1=88(load case 1), 9=314(load case 1), 12=294(load case 1), 11=163(load case 1), 10=213(load case 10), 13=97(load case 11)

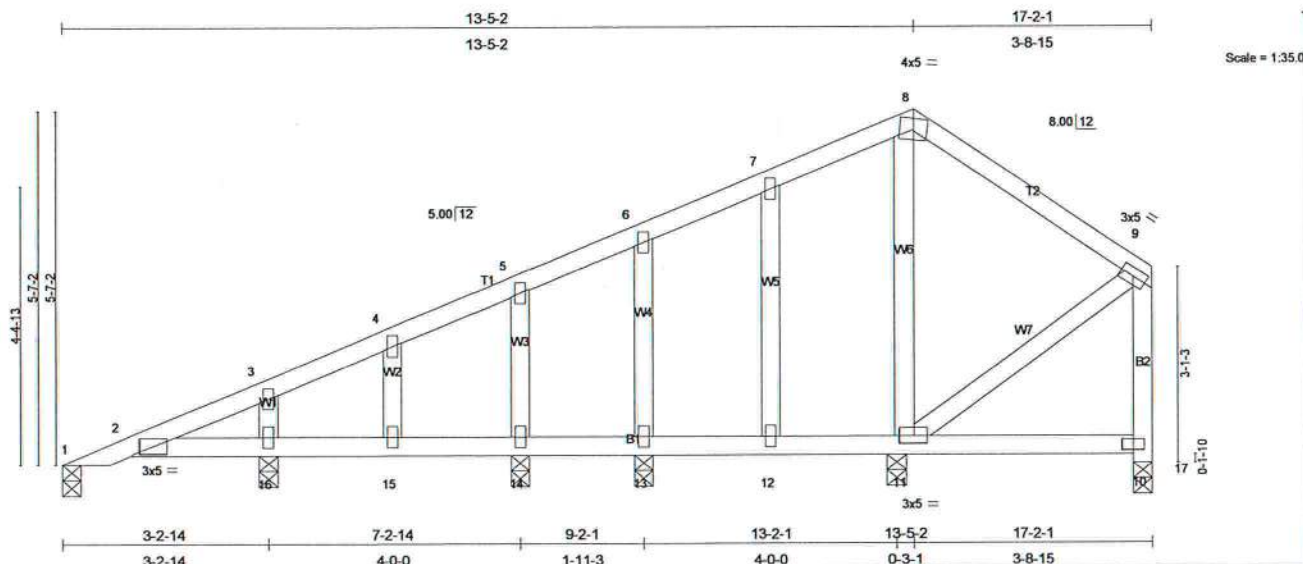
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-188/0, 2-3=-186/71, 3-4=-95/65, 4-5=-58/52, 5-6=-19/70, 6-7=-51/79
BOT CHORD 2-12=-25/14, 11-12=-25/14, 10-11=-25/14, 9-10=-25/14, 8-9=-11/19, 8-13=-97/52, 7-8=-78/59
WEBS 6-9=-250/130, 7-9=-37/29, 3-12=-230/215, 4-11=-144/142, 5-10=-181/158

JOINT STRESS INDEX
2 = 0.32, 3 = 0.34, 4 = 0.34, 5 = 0.34, 6 = 0.55, 7 = 0.51, 8 = 0.34, 9 = 0.40, 10 = 0.34, 11 = 0.34 and 12 = 0.34

- NOTES** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; 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 plates are 2x4 MT20 unless otherwise indicated.
 - All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 - Bearing at joint(s) 1, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 9, 107 lb uplift at joint 12, 58 lb uplift at joint 11, 77 lb uplift at joint 10 and 30 lb uplift at joint 13.
 - SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
 - 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

Job L284512	Truss PB02G	Truss Type PIGGYBACK	Qty 1	Ply 1	CURTIS RES. L284512004 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:28 2008 Page 1		



LOADING (psf)	SPACING 2-0-0	CSI	DEFL in (loc) l/defl l/d	PLATES	GRIP
TCLL 20.0	Plates Increase 1.25	TC 0.13	Vert(LL) -0.01 12 >999 360	MT20	244/190
TCDL 7.0	Lumber Increase 1.25	BC 0.15	Vert(TL) -0.01 12 >999 240		
BCLL 10.0 *	Rep Stress Incr YES	WB 0.10	Horz(TL) 0.00 17 n/a n/a		
BCDL 5.0	Code FBC2004/TPI2002	(Matrix)			
				Weight: 87 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2 X 4 SYP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
B2 2 X 4 SYP No.3	10-0-0 oc bracing: 10-11.
WEBS 2 X 4 SYP No.3	

REACTIONS (lb/size) 1=69/0-3-8, 11=279/0-3-8, 16=266/0-3-8, 14=175/0-3-8, 13=195/0-3-8, 17=96/0-3-8
Max Horz 1=208(load case 5)
Max Uplift 11=76(load case 7), 16=165(load case 6), 14=108(load case 6), 13=123(load case 6), 17=57(load case 7)
Max Grav 1=69(load case 1), 11=279(load case 1), 16=266(load case 1), 14=175(load case 1), 13=206(load case 10), 17=110(load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=211/0, 2-3=173/40, 3-4=128/10, 4-5=105/37, 5-6=71/29, 6-7=32/61, 7-8=5/77, 8-9=61/65
BOT CHORD 2-16=26/18, 15-16=26/18, 14-15=26/18, 13-14=26/18, 12-13=26/18, 11-12=26/18, 10-11=16/20, 10-17=110/67, 9-10=90/79
WEBS 8-11=204/92, 9-11=45/39, 3-16=174/154, 5-14=129/121, 6-13=140/129, 4-15=48/62, 7-12=59/53

JOINT STRESS INDEX
2 = 0.26, 3 = 0.34, 4 = 0.34, 5 = 0.34, 6 = 0.34, 7 = 0.34, 8 = 0.46, 9 = 0.69, 10 = 0.34, 11 = 0.40, 12 = 0.34, 13 = 0.34, 14 = 0.34, 15 = 0.34 and 16 = 0.34

- NOTES** (9)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCCL=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.
 - *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 - Bearing at joint(s) 1, 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 11, 165 lb uplift at joint 16, 108 lb uplift at joint 14, 123 lb uplift at joint 13 and 57 lb uplift at joint 17.
 - SEE MiTek STANDARD PIGGYBACK TRUSS CONNECTION DETAIL FOR CONNECTION TO BASE TRUSS
 - 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

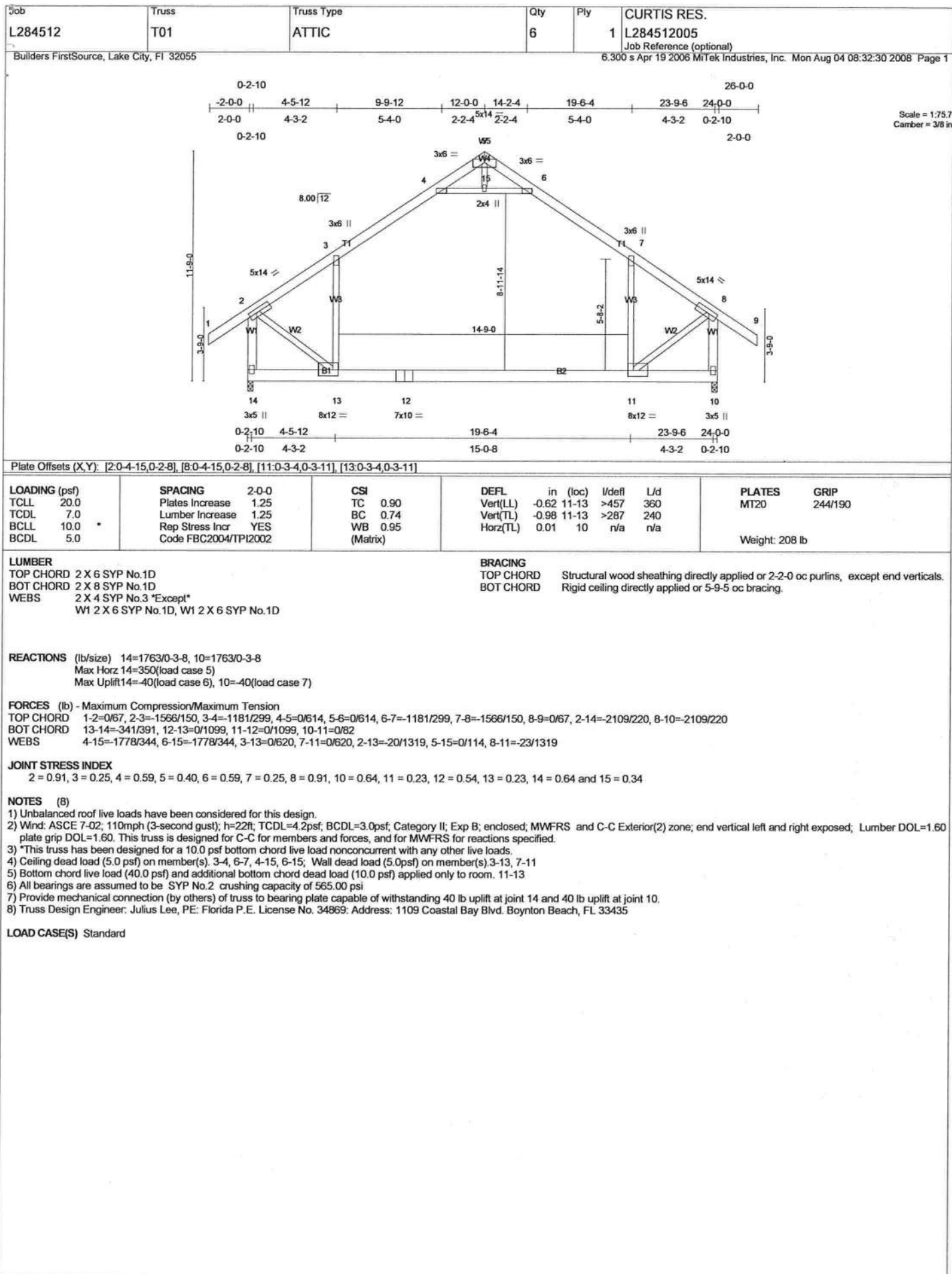


Plate Offsets (X,Y): [2:0-4-15,0-2-8], [8:0-4-15,0-2-8], [11:0-3-4,0-3-11], [13:0-3-4,0-3-11]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.90	in (loc) l/defl l/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.74	Vert(LL) -0.62 11-13 >457 360		
BCLL 10.0 *	Lumber Increase 1.25	WB 0.95	Vert(TL) -0.98 11-13 >287 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.01 10 n/a n/a		
	Code FBC2004/TP12002			Weight: 208 lb	

LUMBER
TOP CHORD 2 X 6 SYP No.1D
BOT CHORD 2 X 8 SYP No.1D
WEBS 2 X 4 SYP No.3 "Except"
W1 2 X 6 SYP No.1D, W1 2 X 6 SYP No.1D

BRACING
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-9-5 oc bracing.

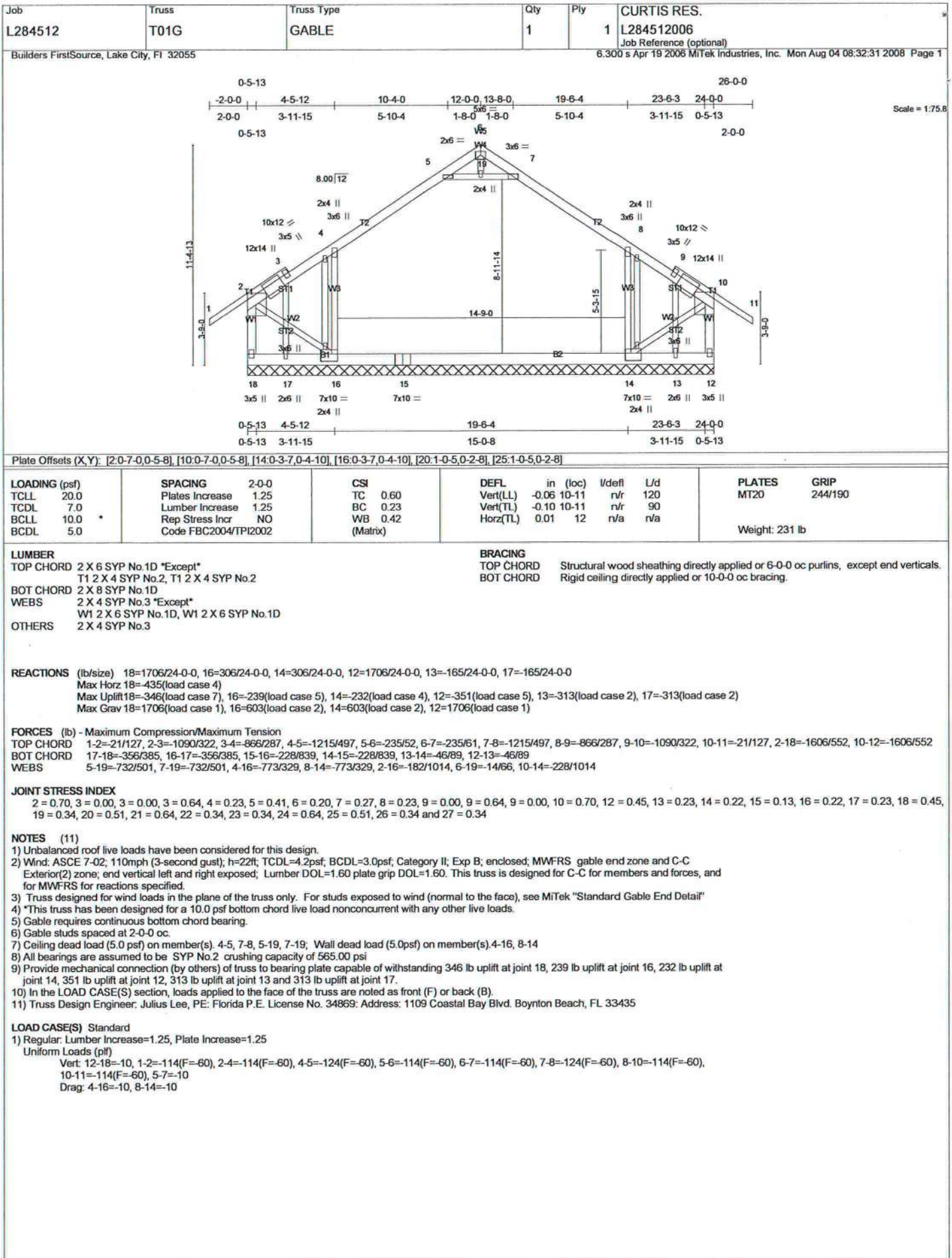
REACTIONS (lb/size) 14=1763/0-3-8, 10=1763/0-3-8
Max Horz 14=350(load case 5)
Max Uplift 14=40(load case 6), 10=40(load case 7)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/67, 2-3=-1566/150, 3-4=-1181/299, 4-5=0/614, 5-6=0/614, 6-7=-1181/299, 7-8=-1566/150, 8-9=0/67, 2-14=-2109/220, 8-10=-2109/220
BOT CHORD 13-14=-341/391, 12-13=0/1099, 11-12=0/1099, 10-11=0/82
WEBS 4-15=-1778/344, 6-15=-1778/344, 3-13=0/620, 7-11=0/620, 2-13=-20/1319, 5-15=0/114, 8-11=-23/1319

JOINT STRESS INDEX
2 = 0.91, 3 = 0.25, 4 = 0.59, 5 = 0.40, 6 = 0.59, 7 = 0.25, 8 = 0.91, 10 = 0.64, 11 = 0.23, 12 = 0.54, 13 = 0.23, 14 = 0.64 and 15 = 0.34

NOTES (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left and right exposed; 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-15, 6-15; Wall dead load (5.0psf) on member(s).3-13, 7-11
5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 14 and 40 lb uplift at joint 10.
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



6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:33 2008 Page 1



LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.91	Vert(LL)	-0.62 10-12	>453	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.75	Vert(TL)	-0.99 10-12	>285	240		
BCLL 10.0	Rep Stress Incr	YES	WB 0.98	Horz(TL)	0.01 9	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)					Weight: 202 lb	

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-7-0 oc bracing.

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/67, 2-3=1577/142, 3-4=-1188/293, 4-5=0/616, 5-6=0/624, 6-7=-1187/295, 7-8=-1573/127, 2-13=-2123/210, 8-9=-1966/91
BOT CHORD 12-13=372/363, 11-12=2/1107, 10-11=-2/1107, 9-10=4/120
WEBS 4-14=-1798/331, 6-14=-1798/331, 3-12=0/622, 7-10=0/621, 2-12=-16/1331, 5-14=0/115, 8-10=-42/1281

NOTES (8)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02; 110mph (3-second gust), $h=22ft$; $TGDL=4.2psf$; $BCDL=3.0psf$; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left and right exposed; 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 6-7, 4-14, 6-14; Wall dead load (5.0psf) on member(s).3-12, 7-10
- 5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 13.
- 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

Job L284512	Truss T03	Truss Type SPECIAL	Qty 9	Ply 1	CURTIS RES. L284512008 Job Reference (optional)
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Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:34 2008 Page 1

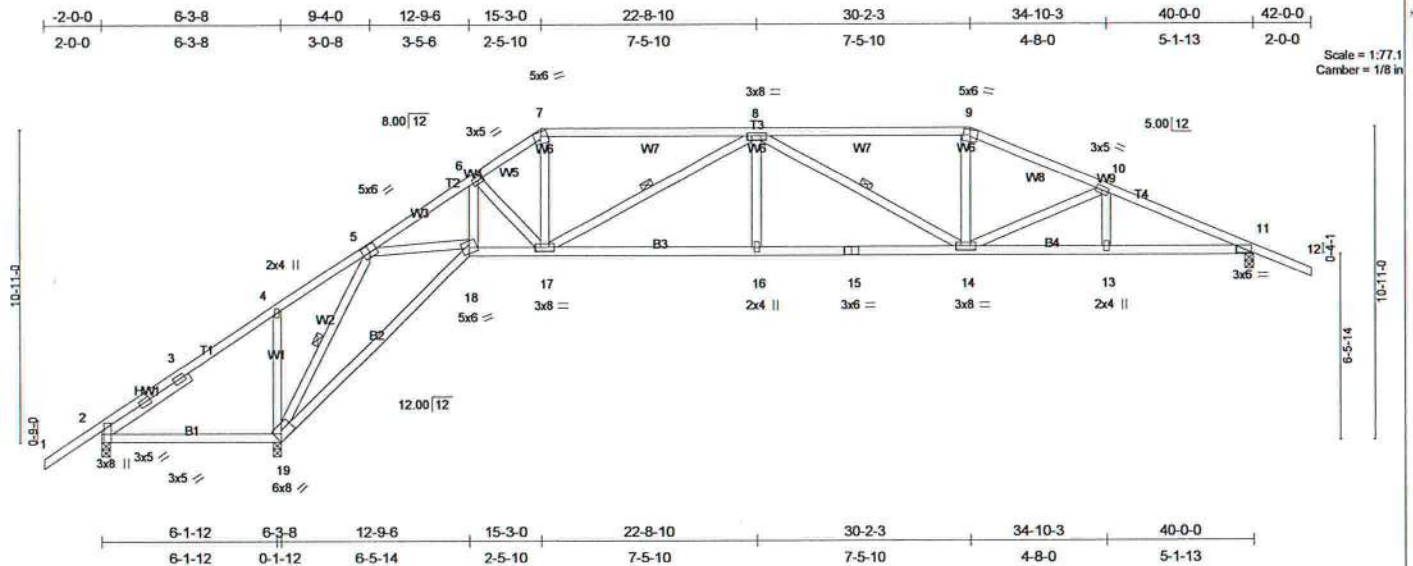


Plate Offsets (X,Y): [2-0-4-13,Edge], [5-0-3-0,0-3-0], [19-0-2-8,Edge]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.39	Vert(LL) 0.15 14-16 >999 360		
BCLL 10.0	Lumber Increase 1.25	WB 0.37	Vert(TL) -0.26 14-16 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.17 11 n/a n/a		
	Code FBC2004/TP12002			Weight: 223 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
SLIDER Left 2 X 4 SYP No.3 3-8-0

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except 2-0-0 oc purlins (4-10-9 max.); 7-9.
BOT CHORD Rigid ceiling directly applied or 5-9-15 oc bracing.
WEBS 1 Row at midpt 5-19, 8-17, 8-14

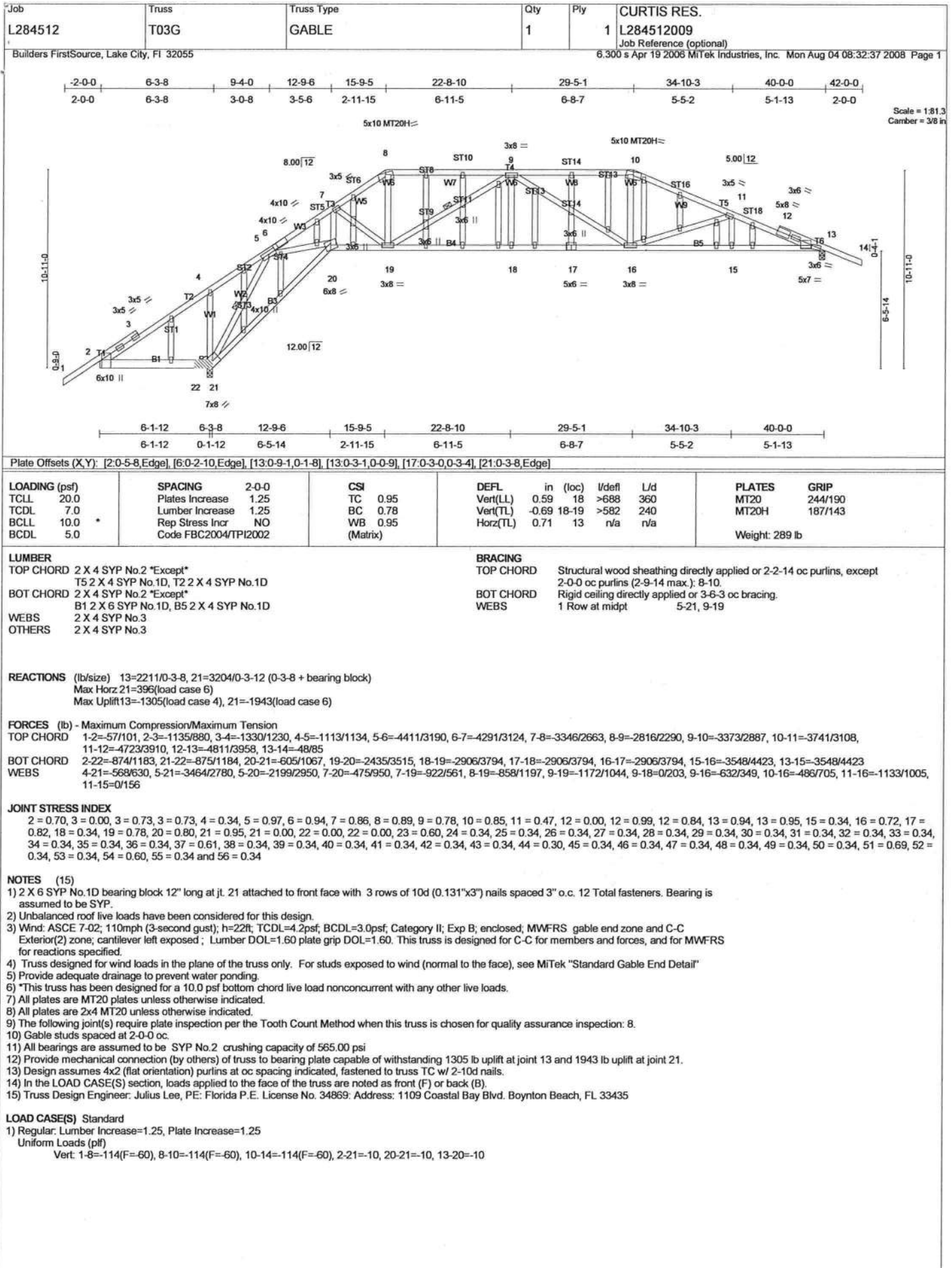
REACTIONS (lb/size) 2=-510/0-3-8, 19=2248/0-3-8, 11=1037/0-3-8
Max Horz 2=292(load case 6)
Max Uplift 2=598(load case 11), 19=533(load case 6), 11=275(load case 7)
Max Grav 2=57(load case 5), 19=2248(load case 1), 11=1037(load case 1)

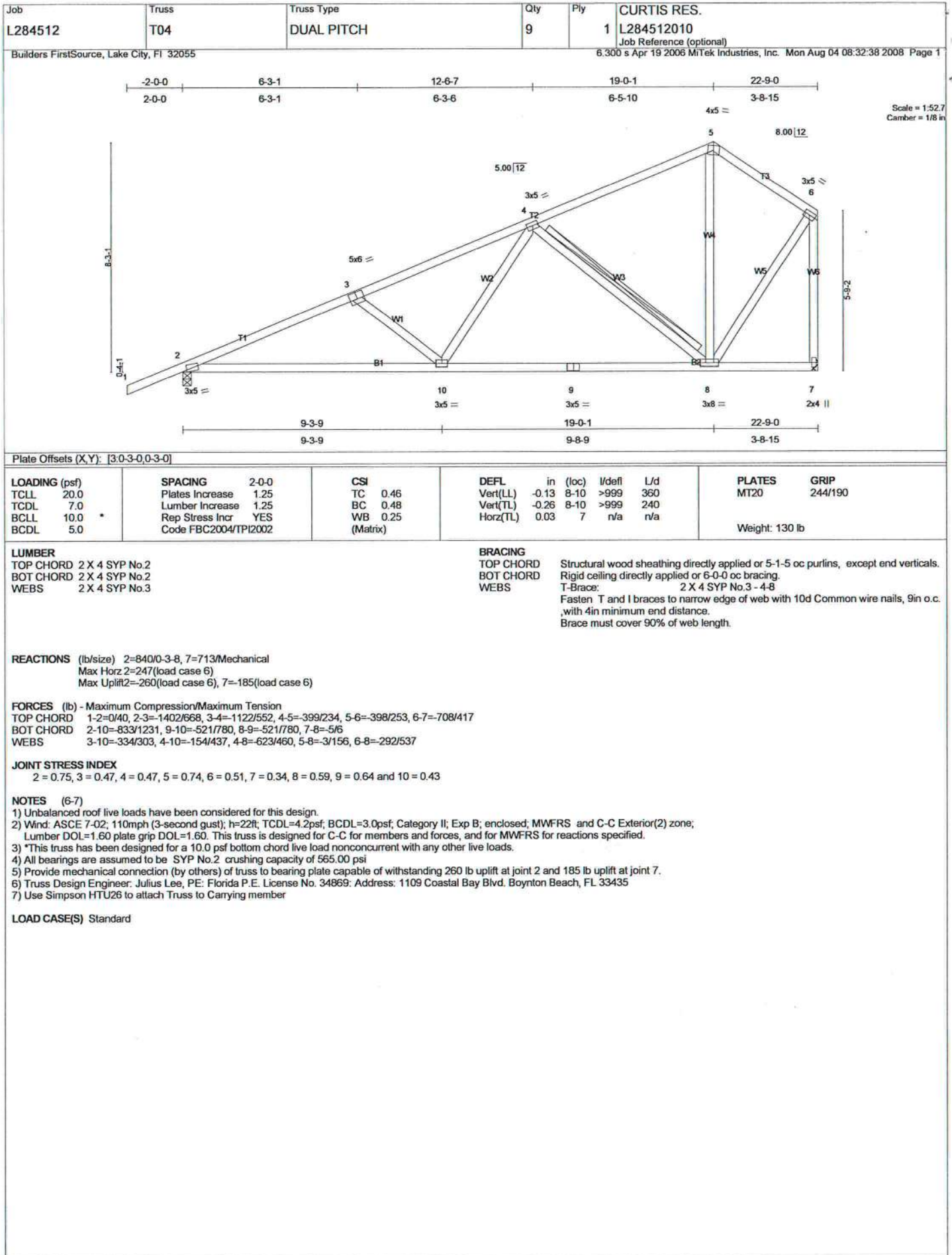
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=-642/1324, 3-4=-626/1421, 4-5=-420/1305, 5-6=-733/448, 6-7=-988/621, 7-8=-837/569, 8-9=-1460/876, 9-10=-1610/893, 10-11=-1925/986, 11-12=0/40
BOT CHORD 2-19=-1068/414, 18-19=-784/274, 17-18=-228/600, 16-17=-671/1588, 15-16=-671/1588, 14-15=-671/1588, 13-14=-769/1711, 11-13=-769/1711
WEBS 4-19=-397/362, 5-19=-1343/610, 5-18=-389/1089, 6-18=-527/243, 6-17=-250/461, 7-17=-137/282, 8-17=-912/433, 8-16=0/233, 8-14=-295/82, 9-14=-89/324, 10-14=-288/188, 10-13=0/134

JOINT STRESS INDEX
2 = 0.90, 2 = 0.26, 2 = 0.26, 3 = 0.00, 4 = 0.34, 5 = 0.61, 6 = 0.51, 7 = 0.54, 8 = 0.57, 9 = 0.63, 10 = 0.47, 11 = 0.77, 13 = 0.34, 14 = 0.57, 15 = 0.58, 16 = 0.34, 17 = 0.57, 18 = 0.39 and 19 = 0.86

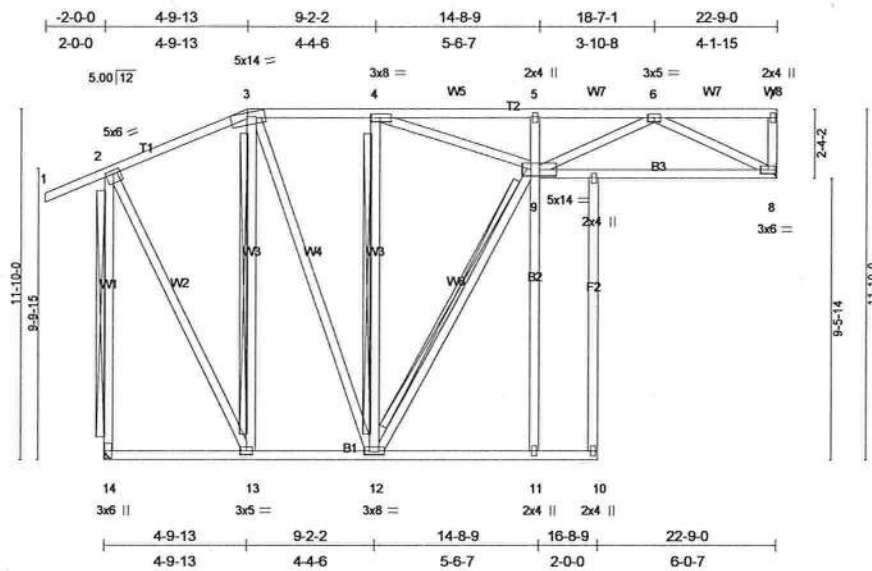
- NOTES** (8)
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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 598 lb uplift at joint 2, 533 lb uplift at joint 19 and 275 lb uplift at joint 11.
 - 7) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
 - 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





Job L284512	Truss T05	Truss Type SPECIAL	Qty 1	Ply 1	CURTIS RES. L284512011 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:39 2008 Page 1		



Scale = 1/4" = 1'-0"
Camber = 1/8" in

Plate Offsets (X,Y): [2-0-3-0,0-1-8], [4-0-3-8,0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCCL 20.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.45	Vert(LL) 0.20 10 >999 360		
BCCL 10.0 *	Lumber Increase 1.25	WB 0.69	Vert(TL) -0.24 10 >999 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.15 8 n/a n/a		
	Code FBC2004/TP12002			Weight: 225 lb	

LUMBER	BRACING
TOP CHORD 2 X 4 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-7 max.): 3-7.
BOT CHORD 2 X 4 SYP No.2 *Except*	Rigid ceiling directly applied or 6-7-5 oc bracing.
B2 2 X 4 SYP No.3	T-Brace: 2 X 4 SYP No.3 - 3-13, 4-12, 9-12, 2-14
WEBS 2 X 4 SYP No.3	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.
	JOINTS 1 Brace at Jt(s): 7

REACTIONS (lb/size) 8=728/Mechanical, 14=847/Mechanical
Max Horz 14=331(load case 6)
Max Uplift 8=255(load case 5), 14=226(load case 4)

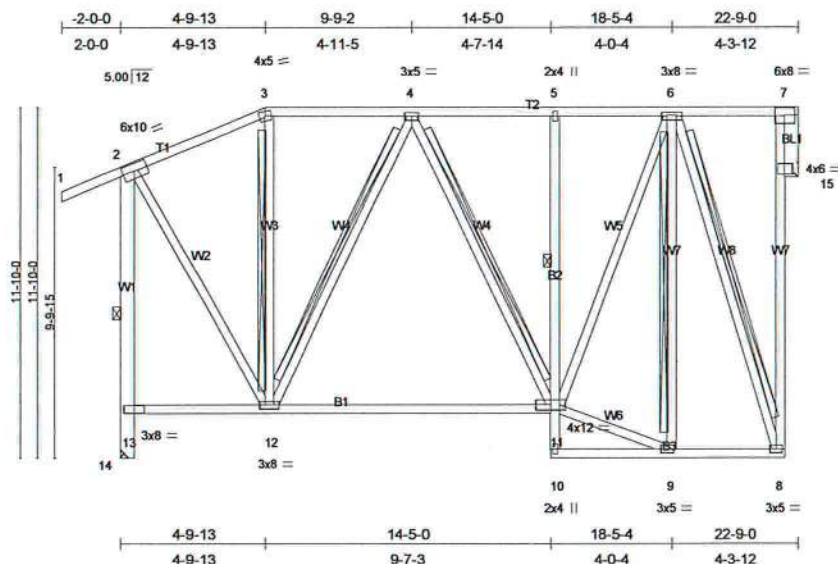
FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/45, 2-3=311/368, 3-4=346/350, 4-5=-1872/1494, 5-6=-1882/1471, 6-7=-97/16, 7-8=-112/77, 2-14=-824/466
BOT CHORD 13-14=-354/3, 12-13=-353/234, 11-12=-5/4, 10-11=0/0, 9-11=0/149, 5-9=-251/172, 8-9=-901/1182
WEBS 3-13=-424/160, 3-12=-84/316, 4-12=-856/656, 9-12=-699/691, 4-9=-1223/1633, 6-9=-640/786, 6-8=-1250/994, 2-13=-117/529

JOINT STRESS INDEX
2 = 0.77, 3 = 0.32, 4 = 0.64, 5 = 0.34, 6 = 0.63, 7 = 0.73, 8 = 0.71, 9 = 0.96, 10 = 0.34, 11 = 0.34, 12 = 0.77, 13 = 0.47, 14 = 0.74 and 15 = 0.34

- NOTES** (7-8)
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; 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.
 - 2) Provide adequate drainage to prevent water ponding.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 255 lb uplift at joint 8 and 226 lb uplift at joint 14.
 - 6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
 - 7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869: Address: 1109 Coastal Bay Blvd, Boynton Beach, FL 33435
 - 8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard

Builders FirstSource, Lake City, FL 32055 6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:40 2008 Page 1



Scale = 1:74.6
Camber = 1/8 in

Plate Offsets (X,Y): [2:0-4-11,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.60	Vert(LL)	-0.14 11-12	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.60	Vert(TL)	-0.26 11-12	>999	240		
BCLL 10.0	Rep Stress Incr	YES	WB 0.82	Horz(TL)	-0.24 15	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)					Weight: 247 lb	

LUMBER

TOP CHORD	2 X 4 SYP No.2
BOT CHORD	2 X 4 SYP No.2 *Except* B2 2 X 4 SYP No.3
WEBS	2 X 4 SYP No.3 *Except* W1 2 X 6 SYP No.1D
OTHERS	2 X 6 SYP No.1D

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 5-11
WEBS	1 Row at midpt 2-14 T-Brace: 2 X 4 SYP No.3 - 3-12, 4-12, 4-11, 6-8, 6-9 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.
JOINTS	1 Brace at Jt(s): 7

REACTIONS

REACTIONS (lb/size) 14=828/Mechanical, 15=703/Mechanical
Max Horz 14=336(load case 6)
Max Uplift 14=-229(load case 4), 15=-266(load case 5)

FORCES (lb)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/46, 2-3=-336/420, 3-4=-263/409, 4-5=-357/295, 5-6=-354/296, 6-7=-5/3, 8-15=-452/603, 7-15=-100/72, 13-14=-828/380, 2-13=-816/473
BOT CHORD 10-11=0/46, 5-11=-229/162, 9-10=-117/0, 8-9=-149/192, 12-13=-407/0, 11-12=-402/375
WEBS 3-12=-139/78, 4-12=-261/95, 4-11=-42/248, 9-11=-103/268, 6-11=-406/450, 6-8=-611/479, 2-12=-116/530, 6-9=-49/74

JOINT STRESS INDEX

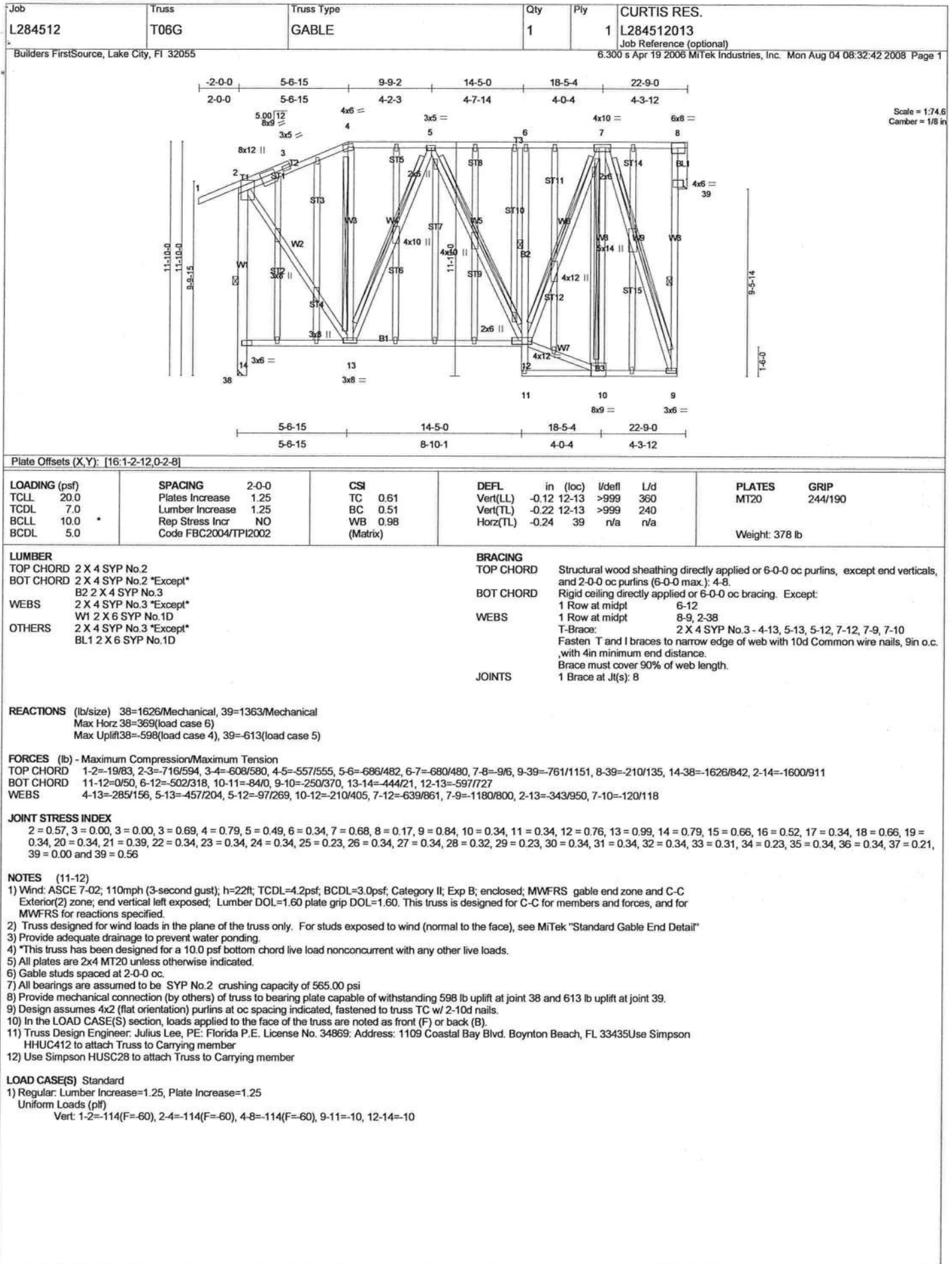
2 = 0.21, 3 = 0.49, 4 = 0.47, 5 = 0.34, 6 = 0.67, 7 = 0.14, 8 = 0.52, 9 = 0.40, 10 = 0.34, 11 = 0.76, 12 = 0.63, 13 = 0.75, 15 = 0.00 and 15 = 0.29

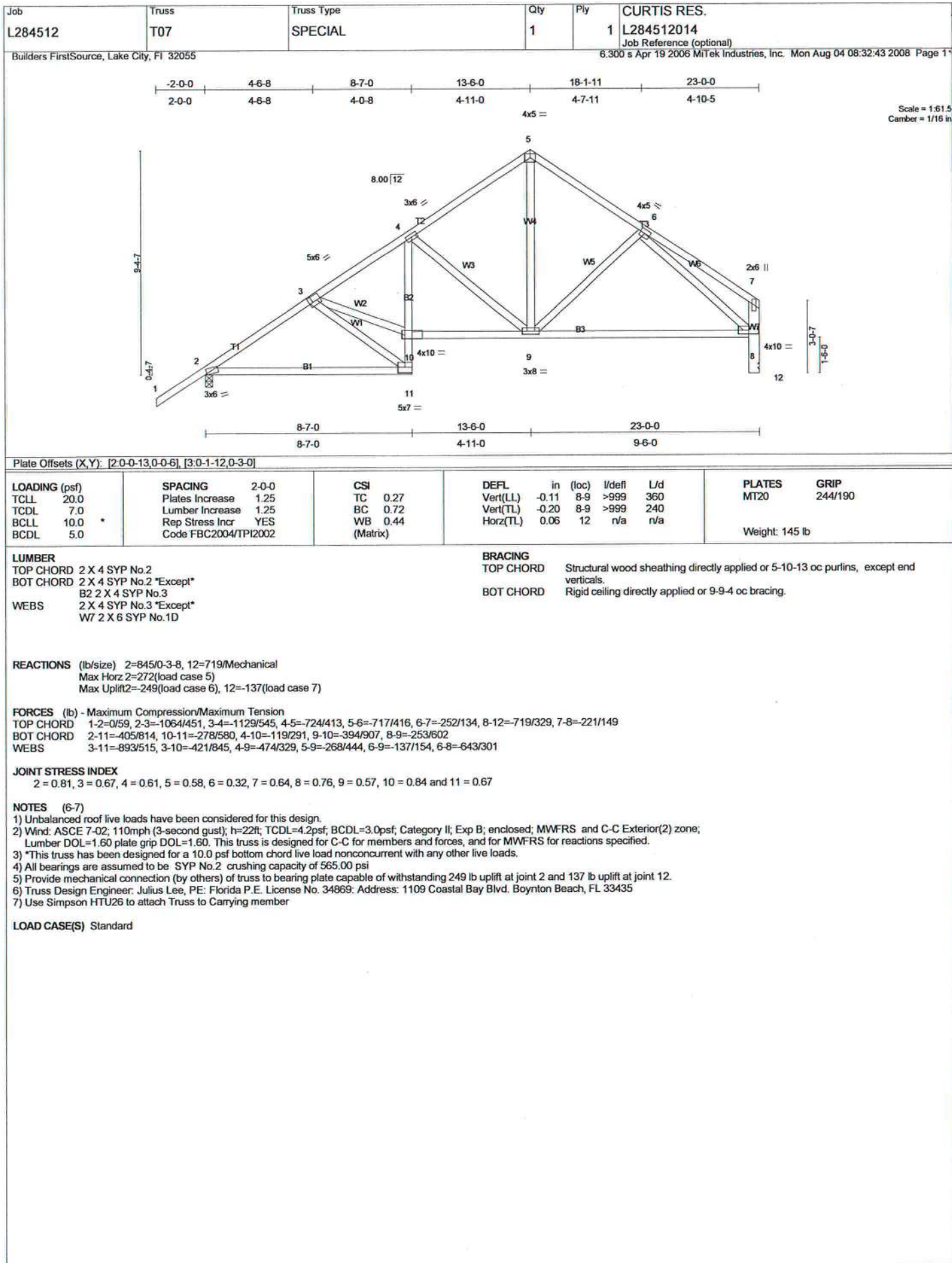
NOTES (7-8)

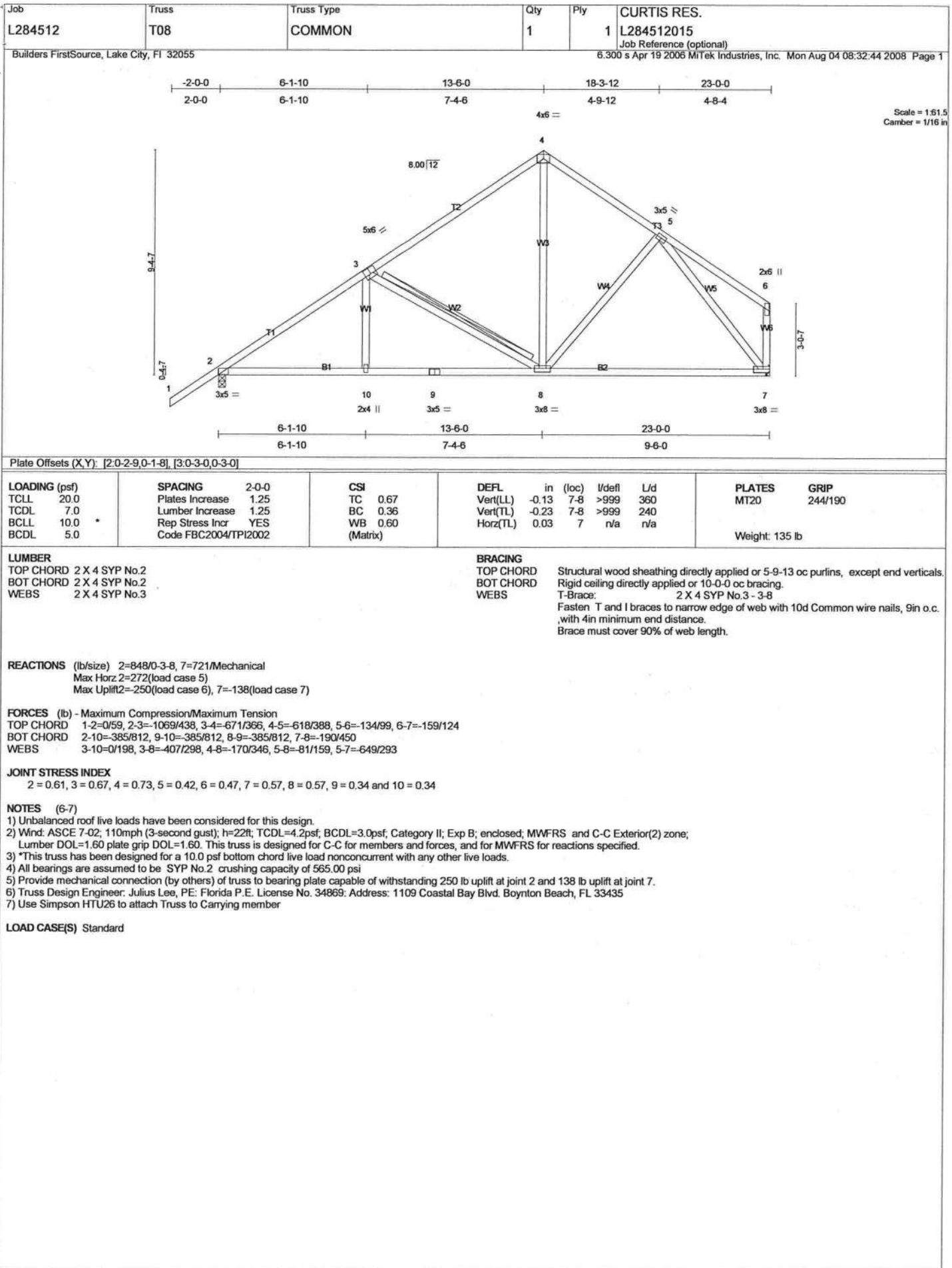
NOTES: (7-8)

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; end vertical left exposed; 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.
- 2) Provide adequate drainage to prevent water ponding.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 229 lb uplift at joint 14 and 266 lb uplift at joint 15.
- 6) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
- 7) Truss Design Engineer: Julius Lee, PE: Florida P.E. License No. 34869; Address: 1109 Coastal Bay Blvd. Boynton Beach, FL 33435
- 8) Use Simpson HTU26 to attach Truss to Carrying member

LOAD CASE(S) Standard







Job L284512	Truss T08G	Truss Type GABLE	Qty 1	Ply 1	CURTIS RES. L284512016 Job Reference (optional)
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Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:45 2008 Page 1

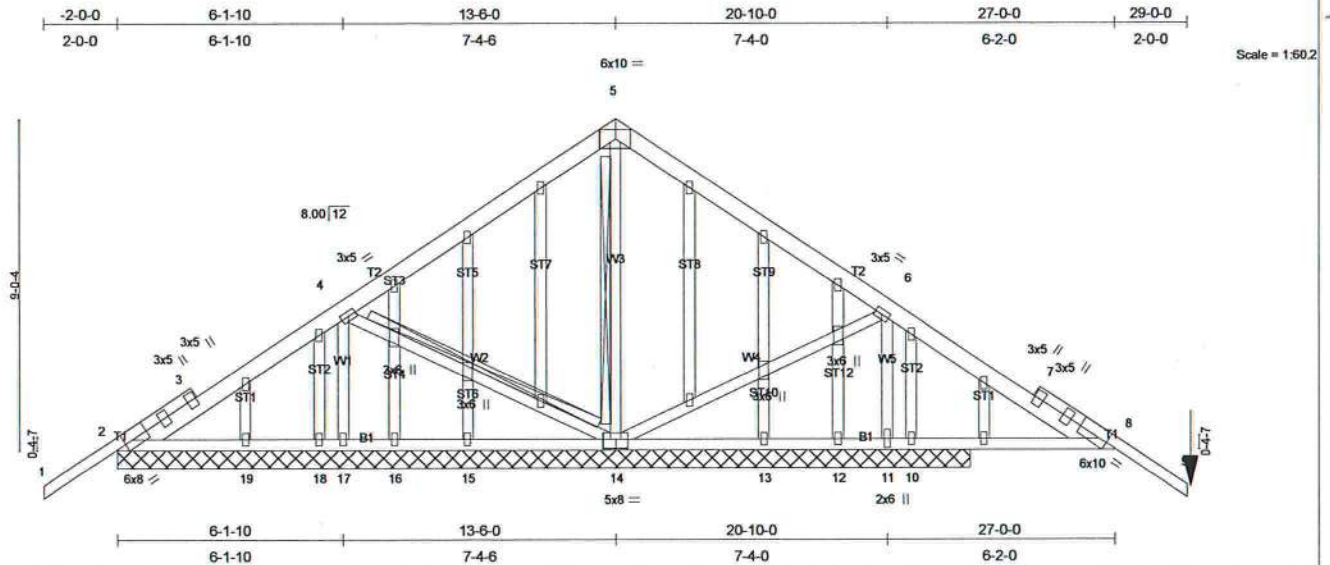


Plate Offsets (X,Y): [2-0-2-9,Edge], [8-0-2-9,Edge], [14-0-4-0,0-3-0]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.77	Vert(LL)	-0.10	8-9	n/r	120	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.35	Vert(TL)	-0.17	8-9	n/r	90		
BCLL 10.0	Rep Stress Incr	NO	WB 0.67	Horz(TL)	0.02	10	n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 234 lb	

LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.1D "Except"	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
T1 2 X 4 SYP No.2, T1 2 X 4 SYP No.2	Rigid ceiling directly applied or 5-11-8 oc bracing.
BOT CHORD 2 X 4 SYP No.2	T-Brace: 2 X 4 SYP No.3 - 4-14, 5-14
WEBS 2 X 4 SYP No.3	Fasten T and I braces to narrow edge of web with 10d Common wire nails, 9in o.c.
OTHERS 2 X 4 SYP No.3	with 4in minimum end distance.
	Brace must cover 90% of web length.

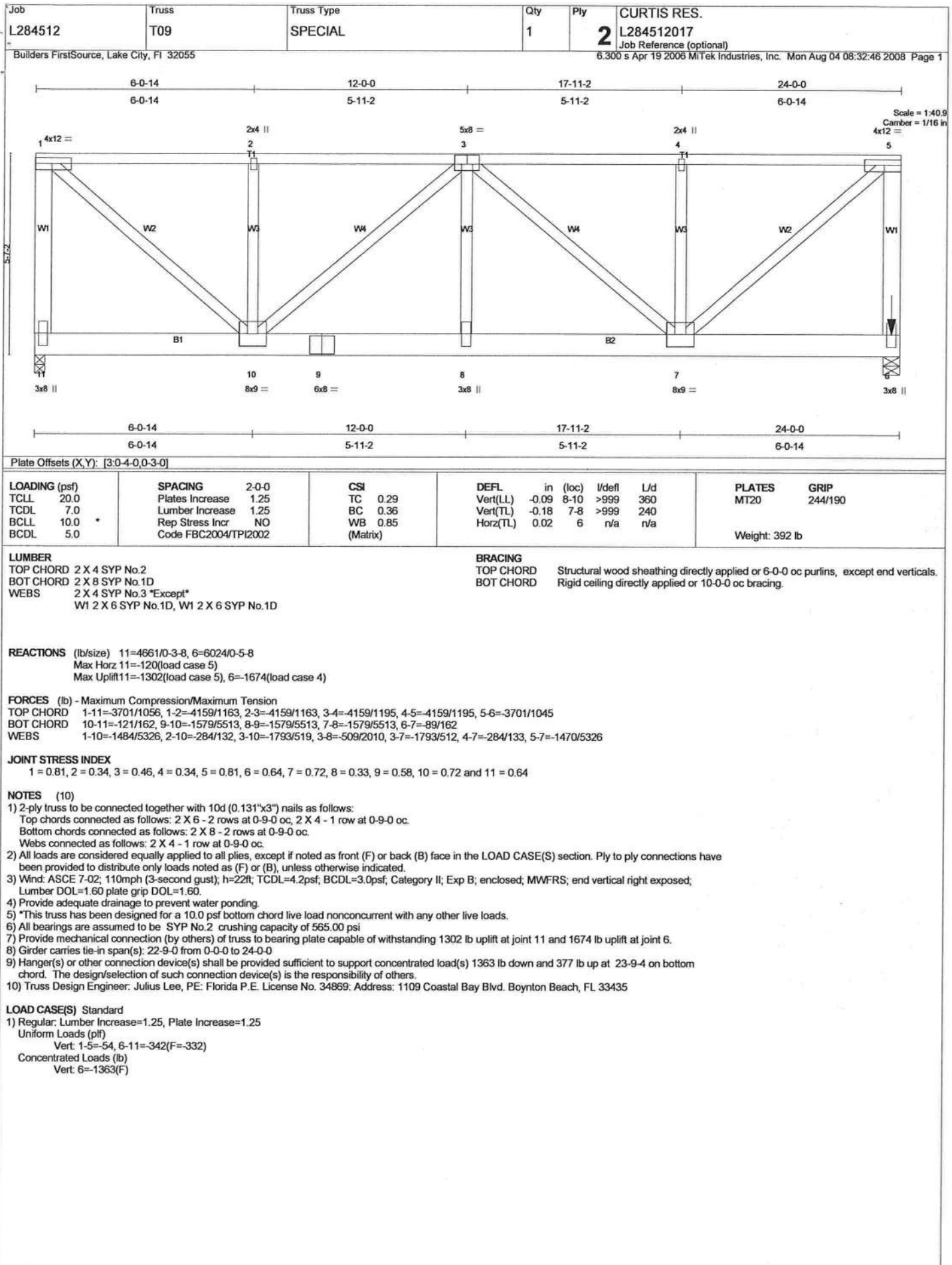
REACTIONS (lb/size) 2=510/23-1-8, 17=605/23-1-8, 14=891/23-1-8, 11=1574/23-1-8, 15=33/23-1-8, 16=11/23-1-8, 18=7/23-1-8, 19=50/23-1-8, 13=32/23-1-8, 12=23/23-1-8, 10=145/23-1-8
Max Horiz 2=305(load case 5)
Max Uplift 2=-254(load case 6), 17=-308(load case 6), 14=-344(load case 7), 11=-756(load case 7), 18=-7(load case 1), 12=-5(load case 7), 10=-167(load case 7)
Max Grav 2=534(load case 10), 17=670(load case 10), 14=891(load case 1), 11=1574(load case 1), 15=100(load case 2), 16=35(load case 2), 18=16(load case 2), 19=103(load case 2), 13=98(load case 2), 12=51(load case 2), 10=250(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=20/123, 2-3=-197/180, 3-4=-204/289, 4-5=-169/527, 5-6=-168/539, 6-7=-992/1459, 7-8=-940/1137, 8-9=-36/157
BOT CHORD 2-19=-98/234, 18-19=-98/234, 17-18=-98/234, 16-17=-98/234, 15-16=-98/234, 14-15=-98/234, 13-14=-1077/972, 12-13=-1077/972, 11-12=-1077/972, 10-11=-1077/972, 8-10=-1077/972
WEBS 4-17=-650/315, 4-14=-195/295, 5-14=-1184/619, 6-14=-579/938, 6-11=-1682/1109

JOINT STRESS INDEX
2 = 0.82, 3 = 0.00, 3 = 0.69, 3 = 0.69, 4 = 0.51, 5 = 0.86, 6 = 0.78, 7 = 0.00, 7 = 0.48, 7 = 0.48, 8 = 0.48, 10 = 0.34, 11 = 0.54, 12 = 0.34, 13 = 0.34, 14 = 0.53, 15 = 0.34, 16 = 0.34, 17 = 0.34, 18 = 0.34, 19 = 0.34, 20 = 0.34, 21 = 0.34, 22 = 0.53, 23 = 0.34, 24 = 0.53, 25 = 0.34, 26 = 0.34, 27 = 0.34, 28 = 0.34, 29 = 0.34, 30 = 0.34, 31 = 0.53, 32 = 0.34, 33 = 0.53, 34 = 0.34, 35 = 0.34 and 36 = 0.34

- NOTES** (12)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; cantilever right exposed; 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.
 - 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"
 - *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 254 lb uplift at joint 2, 308 lb uplift at joint 17, 344 lb uplift at joint 14, 756 lb uplift at joint 11, 7 lb uplift at joint 18, 5 lb uplift at joint 12 and 167 lb uplift at joint 10.
 - Non Standard bearing condition. Review required.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 31 lb up at 29-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
 - 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: 1-5=-114(F=-60), 5-9=-114(F=-60), 2-8=-10
Concentrated Loads (lb)
Vert: 9=-63(F)



Builders FirstSource, Lake City, FL 32055

Weight: 218 lb

BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
ROT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

Max Horz 10=-80(load case 3)
Max Uplift 10=-970(load case 3), 6=-1132(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-10=-284/802, 1-2=-3998/1131, 2-3=-3998/1131, 3-4=-3973/1124, 4-5=-3973/1124, 5-6=-2809/793
BOT CHORD 9-10=-106/179, 9-11=-1578/5575, 11-12=-1578/5575, 8-12=-1578/5575, 7-8=-1578/5575, 7-13=-7712/4, 6-13=-7712/4
WEBS 1-9=-1295/4652, 2-6=-69/53, 3-9=-1922/548, 3-8=-527/1998, 3-7=-1952/553, 4-7=-62/52, 5-7=-1275/4579

JOINT STRESS INDEX
1 = 0.51 2 = 0.02 3 = 0.50 4 = 0.02 5 = 0.51 6 = 0.59 7 = 0.94 8 = 0.33 9 = 0.94 and 10 = 0.59

NOTES (10)

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc, 2 X 6 - 2 rows at 0-9-0 oc.
Bottom chords connected as follows: 2 X 8 - 2 rows at 0-7-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCDF=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- 4) Provide adequate drainage to prevent water ponding.
- 5) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 970 lb uplift at joint 10 and 1132 lb uplift at joint 6.
- 8) Girder carries tie-in span(s): 3-9-0 from 0-0-0 to 13-9-0; 23-0-0 from 0-0-0 to 5-0-0; 23-0-0 from 7-0-0 to 13-9-0
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1626 lb down and 450 lb up at 6-0-12, and 796 lb down and 220 lb up at 12-9-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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: 1-5=-54, 10-11=-374(F=-336, B=-28), 8-11=-38(B=-28), 6-8=-374(F=-336, B=-28)
Concentrated Loads (lb)
Vert: 12=-1626(F) 13=-796(F)

Job L284512	Truss T11	Truss Type MONO TRUSS	Qty 18	Ply 1	CURTIS RES. L284512019 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 Mitek Industries, Inc. Mon Aug 04 08:32:48 2008 Page 1		

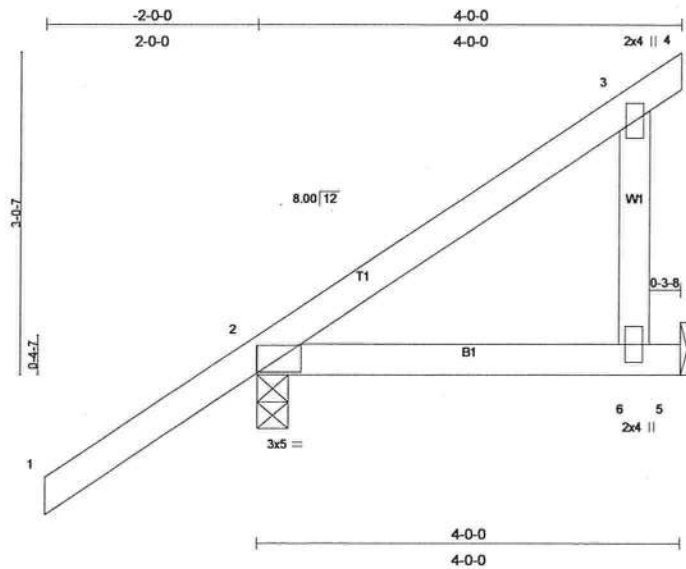


Plate Offsets (X,Y): [2.0-2.9,0-1.8]

LOADING (psf)	SPACING	CSI	DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCCL 20.0	2-0-0	TC 0.30	Vert(LL) 0.04	2-6	>999	360		MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.18	Vert(TL) -0.02	2-6	>999	240			
BCCL 10.0	Lumber Increase 1.25	WB 0.03	Horz(TL) 0.00		n/a	n/a			
BCDL 5.0	Rep Stress Incr YES	(Matrix)							
	Code FBC2004/TP12002								
								Weight: 20 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=270/0-3-8, 5=92/Mechanical
Max Horz 2=150(load case 6)
Max Uplift 2=-178(load case 6), 5=-89(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/59, 2-3=-76/23, 3-4=-13/0
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-81/101

JOINT STRESS INDEX

2 = 0.15, 3 = 0.05 and 6 = 0.06

NOTES (5)

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch left and right exposed; 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.
- 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 capable of withstanding 178 lb uplift at joint 2 and 89 lb uplift at joint 5.
- 5) 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

Job L284512	Truss T11G	Truss Type GABLE	Qty 1	Ply 1	CURTIS RES. L284512020 Job Reference (optional)
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Builders FirstSource, Lake City, FL 32055

6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:49 2008 Page 1

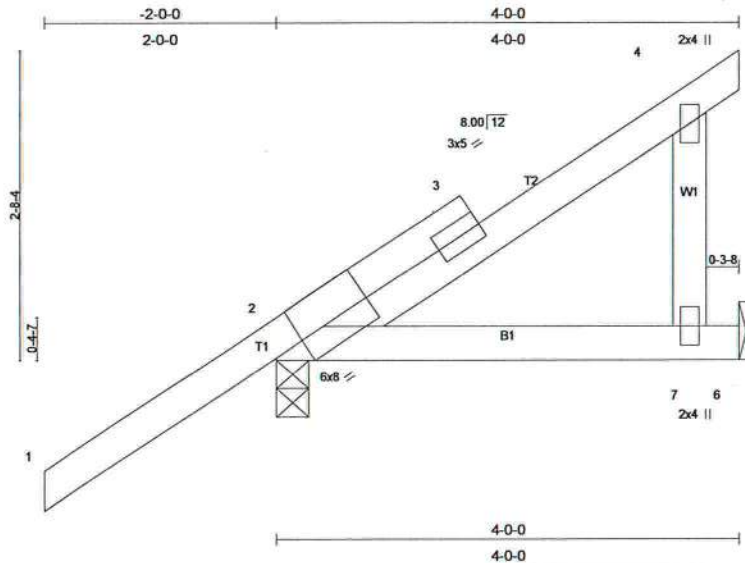


Plate Offsets (X,Y): [2-0-2-9,Edge]

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.57	Vert(LL)	-0.01	2-7	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.15	Vert(TL)	-0.03	2-7	>999	240		
BCLL 10.0 *	Rep Stress Incr	NO	WB 0.03	Horz(TL)	0.00		n/a	n/a		
BCDL 5.0	Code FBC2004/TPI2002		(Matrix)							
									Weight: 22 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=549/0-3-8, 6=173/Mechanical
Max Horz 2=190(load case 6)
Max Uplift 2=-273(load case 6), 6=-67(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-28/126, 2-3=-129/10, 3-4=-71/46, 4-5=-28/6
BOT CHORD 2-7=0/0, 6-7=0/0
WEBS 4-7=-171/139

JOINT STRESS INDEX

2 = 0.56, 3 = 0.00, 3 = 0.47, 4 = 0.08 and 7 = 0.08

NOTES (8)

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; 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.
- 2) 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"
- 3) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Gable studs spaced at 2-0-0 oc.
- 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 273 lb uplift at joint 2 and 67 lb uplift at joint 6.
- 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

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-5=-114(F=60), 2-6=-10

Job L284512	Truss T12	Truss Type MONO TRUSS	Qty 5	Ply 1	CURTIS RES. L284512021 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:49 2008 Page 1		

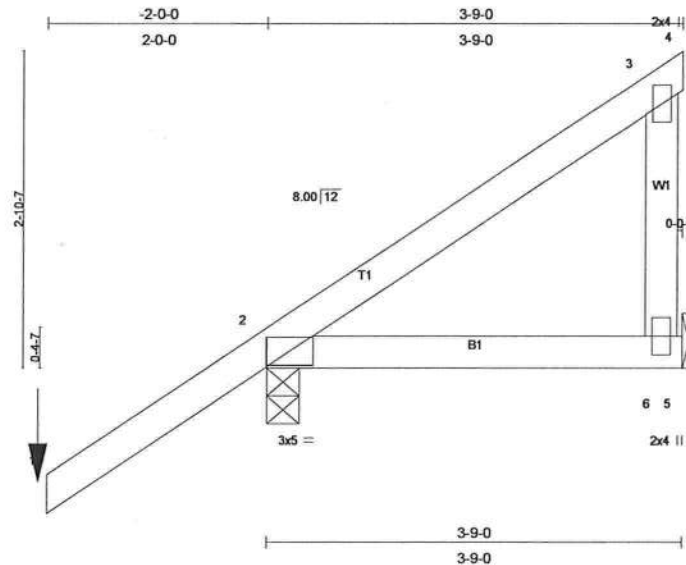


Plate Offsets (X,Y): [2-0-2-9-0-1-8]

LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plates Increase 1.25	BC 0.09	Vert(LL) -0.01 2-6 >999 360		
BCLL 10.0	Lumber Increase 1.25	WB 0.01	Vert(TL) -0.01 2-6 >999 240		
BCDL 5.0	Rep Stress Incr NO	(Matrix)	Horz(TL) 0.00 n/a n/a		
	Code FBC2004/TPI2002			Weight: 19 lb	

LUMBER

TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (lb/size) 2=364/0-3-8, 6=38/Mechanical

Max Horz 2=146(load case 6)
Max Uplift 2=-160(load case 6), 6=-21(load case 5)
Max Grav 2=364(load case 1), 6=47(load case 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-18/92, 2-3=-97/15, 3-4=-1/0
BOT CHORD 2-6=0/0, 5-6=0/0
WEBS 3-6=-31/32

JOINT STRESS INDEX

2 = 0.20, 3 = 0.02 and 6 = 0.02

NOTES (7)

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; 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.
- 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 capable of withstanding 160 lb uplift at joint 2 and 21 lb uplift at joint 6.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 36 lb up at -2-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 7) 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: 1-3=-54, 3-4=-14, 2-5=-10
Concentrated Loads (lb)
Vert: 1=-63(F)

Job L284512	Truss T13	Truss Type MONO TRUSS	Qty 1	Ply 1	CURTIS RES. L284512022 Job Reference (optional)
Builders FirstSource, Lake City, FL 32055			6.300 s Apr 19 2006 MiTek Industries, Inc. Mon Aug 04 08:32:50 2008 Page 1		

Scale = 1:22.5

LOADING (psf)	SPACING	2-0-0	CSI	DEFL	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0	Plates Increase	1.25	TC 0.08	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 7.0	Lumber Increase	1.25	BC 0.06	Vert(TL)	-0.01	2	>999	240		
BCLL 10.0 *	Rep Stress Incr	YES	WB 0.07	Horz(TL)	-0.00	1	n/a	n/a		
BCDL 5.0	Code FBC2004/TP12002		(Matrix)						Weight: 20 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS (lb/size) 1=63/Mechanical, 4=28/Mechanical, 5=-126/Mechanical, 7=399/0-6-7
Max Horz 7=120(load case 6)
Max Uplift 1=23(load case 6), 4=-24(load case 6), 5=-126(load case 1), 7=-38(load case 6)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=-27/41, 2-3=-104/230, 3-4=-35/10
BOT CHORD 2-7=-157/178, 6-7=-157/0, 5-6=0/0
WEBS 3-6=0/216, 3-7=-389/122

JOINT STRESS INDEX
2 = 0.08, 3 = 0.18, 6 = 0.11 and 7 = 0.14

NOTES (5)
1) Wind: ASCE 7-02; 110mph (3-second gust); h=22ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; cantilever left exposed; 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.
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 capable of withstanding 23 lb uplift at joint 1, 24 lb uplift at joint 4, 126 lb uplift at joint 5 and 38 lb uplift at joint 7.
5) 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

TOP CHORD	2X4	SO.	PINE	#2	or	Better	120	MPH	MAX
BOC CHORD	2X4	SO.	PINE	#2	or	Better			

MAX 2' TYP. MAX
Setback 7' or Less

UPLIFT: 400# or Less

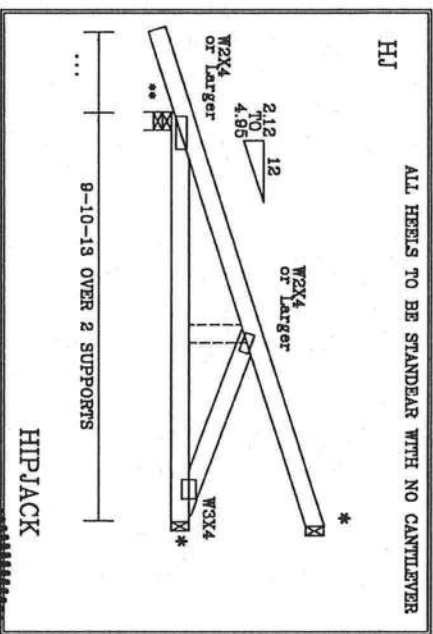
CJ's
2' TYP.
MAX

UPLIFT: 400# or Less
*
RPT LOC:

2' TYP. MAX	#1 HIP TRUSS	
or Less		CJ
CJ's		CJ
2' TYP. MAX		CJ
1'		

UPLETM: 400# or Less
 BPC 100: *

2' O.H. 1' 2' TYP.
MAX CJ's MAX



*(3) 16d TOENAILS
** SEE FOR THE DOWN

UPLIFT VALUES DO TAKE INTO ACCOUNT PORCHES EXPOSED
BC LIVE LOAD IS NON CONCURRENT 10*

7'0" MAX

PROFESSIONAL ENGINEER

STATE OF FLORIDA

No. 24889

BERRYAN, RICHARD L. P.E.

SPACING	2' MAX	REF	7' MAX STBK CS
DUR. FAC.	1.25	DATE	Jun./27/2008
		DRWG	
		-ENG	
		REVIEWED	
		By Julius Ioe at 10:52 am, Jun 27, 2008	

MAX GABLE VERTICAL LENGTH															
CABLE VERTICAL SPACING	2X4 SPECIES	BRACE GRADE	NO. BRACES	(1) 1X4 "L" BRACE *		(1) 2X4 "L" BRACE *		(1) 2X6 "L" BRACE *		(2) 2X8 "L" BRACE *					
				GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B				
24" O.C.	SPF	#1 / #2	#1	3' 2"	5' 6"	6' 3"	6' 8"	6' 9"	7' 10"	8' 0"	10' 3"	10' 7"	12' 3"	12' 7"	
			#8	3' 1"	4' 5"	4' 5"	6' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	
		HF	STUD	3' 1"	4' 6"	4' 5"	5' 10"	5' 10"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"	
			STANDARD	2' 11"	3' 6"	3' 9"	5' 0"	5' 0"	6' 9"	7' 10"	7' 10"	9' 1"	9' 1"	12' 3"	12' 3"
	SP	#1	3' 6"	5' 6"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"		
		#2	3' 6"	5' 6"	5' 11"	6' 8"	7' 0"	7' 10"	8' 5"	10' 3"	11' 1"	12' 3"	13' 2"		
	DFL	#3	3' 3"	4' 6"	4' 6"	6' 0"	6' 0"	7' 10"	8' 1"	9' 4"	9' 4"	12' 3"	12' 6"		
		STUD	3' 3"	4' 8"	4' 6"	5' 11"	5' 11"	7' 10"	8' 0"	9' 3"	9' 3"	12' 3"	12' 6"		
	16" O.C.	SPF	#1 / #2	#1	3' 0"	3' 10"	3' 10"	6' 1"	5' 1"	6' 11"	6' 11"	8' 0"	10' 10"	10' 10"	
				#8	3' 8"	6' 4"	6' 6"	7' 6"	7' 6"	8' 11"	8' 0"	11' 9"	12' 1"	14' 0"	
			HF	STUD	3' 7"	5' 5"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 2"	11' 2"	14' 0"	14' 0"
				STANDARD	3' 7"	5' 6"	5' 5"	7' 2"	7' 2"	8' 11"	8' 11"	11' 1"	11' 1"	14' 0"	14' 0"
SP		#1	4' 0"	6' 4"	6' 10"	7' 8"	8' 1"	8' 11"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"		
		#2	3' 11"	6' 4"	6' 10"	7' 8"	8' 1"	8' 11"	8' 3"	9' 7"	9' 7"	12' 11"	12' 11"		
DFL		#3	3' 9"	5' 7"	6' 7"	7' 4"	7' 4"	8' 11"	9' 7"	11' 9"	11' 9"	14' 0"	14' 0"		
		STUD	3' 8"	5' 8"	5' 6"	7' 3"	7' 3"	8' 11"	9' 5"	11' 4"	11' 4"	14' 0"	14' 0"		
12" O.C.		SPF	#1 / #2	#1	4' 0"	6' 11"	7' 2"	6' 3"	6' 3"	8' 6"	9' 10"	10' 1"	12' 11"	14' 0"	
				#3	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	
			HF	STUD	3' 11"	6' 3"	6' 3"	8' 3"	8' 3"	9' 10"	9' 10"	12' 11"	12' 11"	14' 0"	
				STANDARD	3' 11"	5' 4"	5' 4"	7' 1"	7' 1"	8' 10"	8' 10"	10' 7"	10' 7"	13' 11"	14' 0"
	SP	#1	4' 5"	6' 11"	7' 6"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"			
		#2	4' 4"	6' 11"	7' 6"	8' 3"	8' 11"	9' 10"	10' 7"	12' 11"	13' 11"	14' 0"			
	DFL	#3	4' 2"	6' 6"	6' 4"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 1"	14' 0"			
		STUD	4' 2"	6' 4"	6' 4"	8' 3"	8' 6"	9' 10"	10' 4"	12' 11"	13' 1"	14' 0"			

GROUP A:			
SPICE-PINE-YR		HOLY-PTR	
#1 / #2	STUD	#2	STUD
#3	STANDARD	#3	STANDARD
DOUGLAS FIR-LARCH		SOUTHERN PINE	
#3	STUD	#3	STUD
	STANDARD		STANDARD

SOUTHERN PINE		HDK-PTR	
#1		#1 & BTR	
#2		#1	

DOUGLAS FIR-LARCH	
#1	
#2	

LIVE LOAD DEFLECTION CRITERIA IS $L/740$.
 PROVIDE WELT CONNECTIONS FOR 180 PLF OVER
 CONTINUOUS BEARING (6 PSF TC DEAD LOAD).
 CABLE END SUPPORTS LOAD FROM $\pm 0"$
 OUTDOORS WITH 2" ϕ DRYBANK, OR 12"
 PLYWOOD OVERLAP.

ATTACH EACH "T" BRACE WITH 104 NAILS.
 * FOR (1) "T" BRACE, SPACE NAILS AT 8" O.C.
 IN 18" END ZONES AND 4" O.C. BETWEEN ZONES
 ** FOR (2) "T" BRACES: SPACE NAILS AT 3" O.C.
 IN 18" END ZONES AND 4" O.C. BETWEEN ZONES
 "T" BRACING MUST BE A MINIMUM OF 80% OF THE
 MEMBER LENGTH.

VERTICAL LENGTH	NO SEW
LESS THAN 4" 0"	1X6 OR 2X3
GREATER THAN 4" 0", BUT LESS THAN 11" 6"	2X4
GREATER THAN 11" 6"	2, 5X4

+ REFER TO COMMON TRUSS DESIGN FOR
PEAK, SPLICE, AND BEEL PLATES.

2x4 SP OR
2x4 OR 2x2 OR
BRACKET, DIAGONAL
BRACE, SINGLE
OR DOUBLE
CUY (AS SHOWN)
AT UPPER END

CABLE TRAYS

NOTES: THESE REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND MAINTAINING. REFER TO BOLD-1-63 CHIMNEY COMPONENT SAFETY INFORMATION PUBLISHED BY THE TRUSS MANUFACTURING INSTITUTE, 388 DUNDEN RD., SUITE 900, MADISON, WI 53719, AND VITA LAMBD TRUSS CATALOGUE ENTERPRISE, INC., WILMINGTON, VA 23719 FOR SAFETY PRACTICES PRIOR TO PERFORMING ANY FUNCTIONS. UNLESS OTHERWISE INDICATED, TYPE ORIGIN SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

JULIUS LEE'S
CONS. ENGINEERS P.A.
1456 SW 4th AVENUE
DELRAY BEACH, FL. 33444-2161

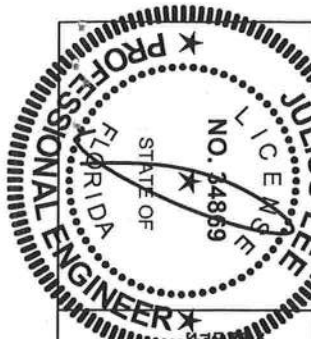
REF	ASSET-02-CAB13030
DATE	11/26/03
DWG	ATYEC STD CABLE 50' X 17'
-ENG	

REVIEWED

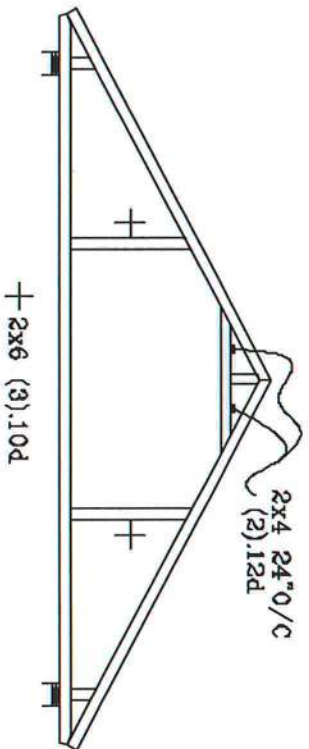
By Julius Lee at 12:00 pm, Jun 11, 2008

No: 34868
STATE OF FLORIDA

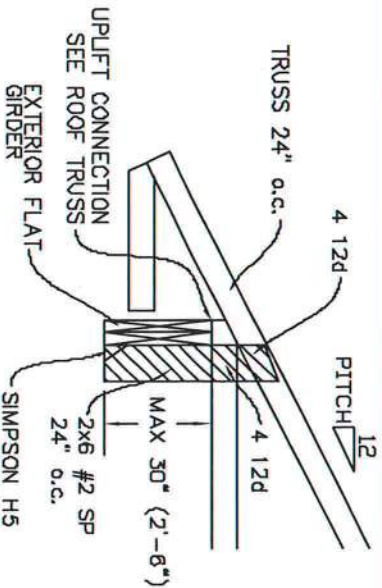
MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"



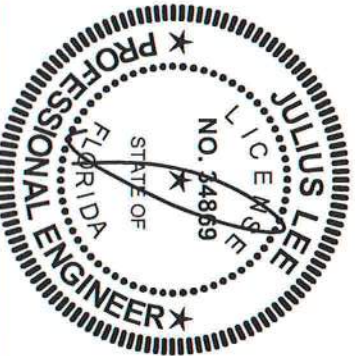
TYPICAL ATTIC TRUSS BRACING



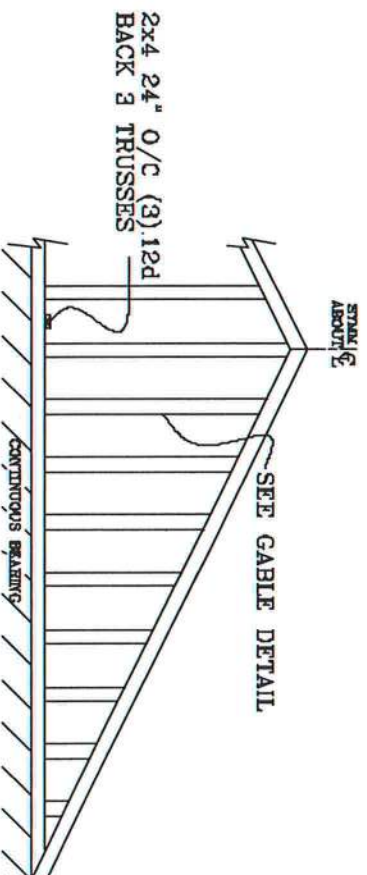
TYPICAL ALTERNATE BRACING DETAIL FOR EXTERIOR FLAT GIRDER TRUSS



REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

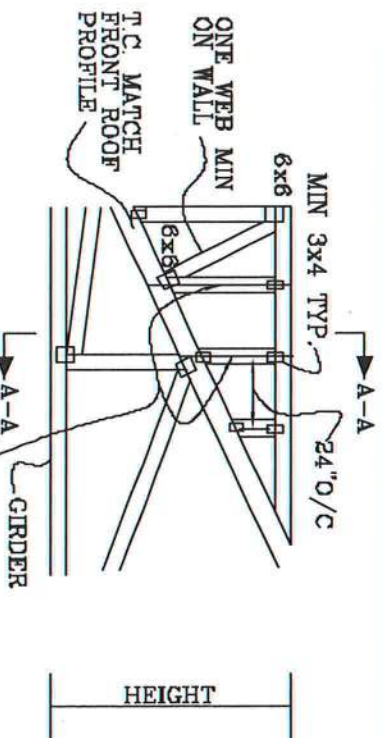


GABLE END TRUSS DETAIL



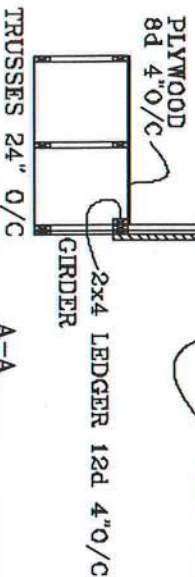
MINIMUM BR BRACING ON GABLE TRUSS. OTHER PERMANENT BRACING DESIGNS BY ARCHITECT OR EOR

TYPICAL WALL GIRDER VERTICAL WEB BRACING DETAIL



SEE ROOF TRUSSES FOR UPLIFT
ROOF 24" o/c

SEE GABLE END DETAIL FOR T-BRACE BEHIND EACH VERTICAL



A-A

JULIUS LEE'S
CONS. ENGINEERS P.A.
1426 SW 4th AVENUE
DIKRAY BLDG, FL 33444-2611

No. 34869
STATE OF FLORIDA

TOP CHORD 2X4 #2 OR BETTER
BOT CHORD 2X4 #2 OR BETTER
WEBS 2X4 #3 OR BETTER

PIGGYBACK DETAIL

REFER TO SEALED DESIGN FOR DASHED PLATES.

SPACE PIGGYBACK VERTICALS AT 4' OC MAX.

TOP AND BOTTOM CHORD SPLICES MUST BE STAGGERED SO THAT ONE SPLICE IS NOT DIRECTLY OVER ANOTHER.

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

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGGYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH 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 BLDG, LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST

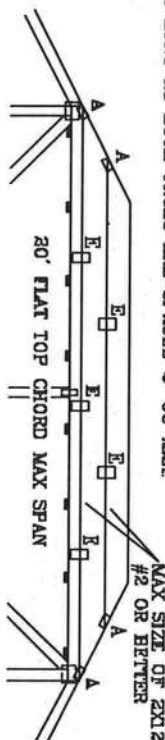
CAT I, EXP C, WIND TC DL=5 PSF, WIND BC DL=5 PSF

110 MPH WIND, 30' MEAN HGT, ENC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF

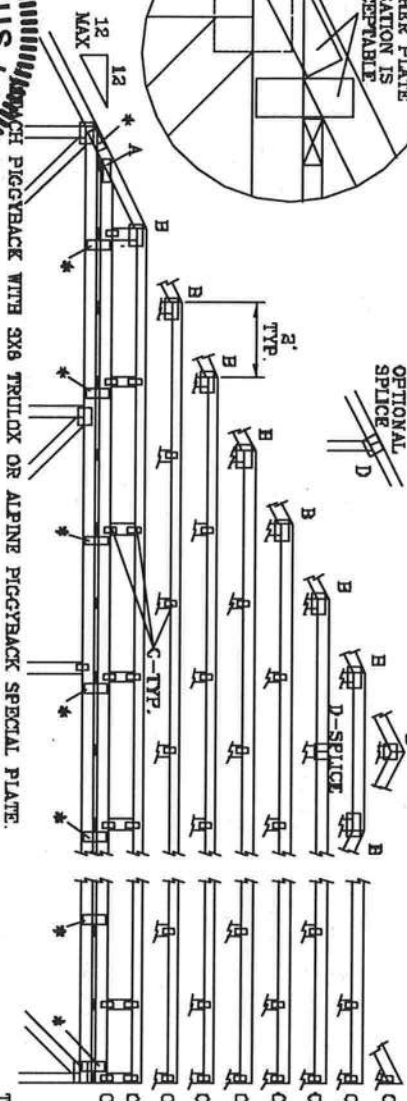
WIND TC DL=5 PSF, WIND BC DL=5 PSF

FRONT FACE (B,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX.

130 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BLDG, LOCATED ANYWHERE IN ROOF, CAT II, EXP. C, WIND TC DL=6 PSF, WIND BC DL=6 PSF



OPTIONAL
SPLICE
D



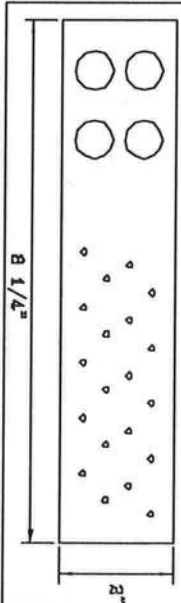
ATTACH PIGGYBACK WITH 3X6 TRUSS OR ALPINE PIGGYBACK SPECIAL PLATE.

ATTACH TRUSS PLATES WITH (8) 0.120" X 1.375" NAILS OR EQUAL, PER FACE PER PLY. (4) NAILS IN EACH MEMBER TO BE CONNECTED. REFER TO DRAWING 160 TL FOR TRUSS INFORMATION.

JOINT TYPE	SPANS UP TO		
	30'	34'	38'
A	2X4	2.6X4	2.6X4
B	4X6	6X6	6X6
C	1.5X3	1.5X4	1.5X4
D	5X4	6X6	6X6
E	4X6 OR 3X6 TRUSS AT 4' OC, ROTATED VERTICALLY		

WEB LENGTH	WEB BRACING CHART
0' TO 7'9"	NO BRACING
7'9" TO 10'	1X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER OR BETTER, AND 80X LENGTH OF WEB MEMBER. ATTACH WITH 6d NAILS AT 4' OC.
10' TO 14'	2X4 "T" BRACE, SAME GRADE, SPECIES AS WEB MEMBER, OR BETTER, AND 80X LENGTH OF WEB MEMBER. ATTACH WITH 16d NAILS AT 4' OC.

* PIGGYBACK SPECIAL PLATE
ATTACH TEETH TO THE PIGGYBACK AT THE TRUSS OR FABRICATION ATTACH TO SUPPORTING TRUSS WITH (4) 0.120" X 1.375" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.



JULIUS LEE'S
CONS. ENGINEERS P.A.
1490 SW 4TH AVENUE
DIKRAY BUILDING, FL 33411-2161

STATE OF
FLORIDA
JULIUS LEE
LICENSE NO. 34869
PROFESSIONAL ENGINEER

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

No. 34869
STATE OF FLORIDA

MAX LOADING	REF
55 PSF AT	DATE 09/12/07
1.33 DUR. FAC.	DRWG/ITEK STD PIGGY
50 PSF AT	-ENG JL
1.25 DUR. FAC.	
47 PSF AT	
1.15 DUR. FAC.	
SPACING 24.0"	

THIS DRAWING REPLACES DRAWINGS 634.016 634.017 & 647.045

TOE-NAIL DETAIL

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 - EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

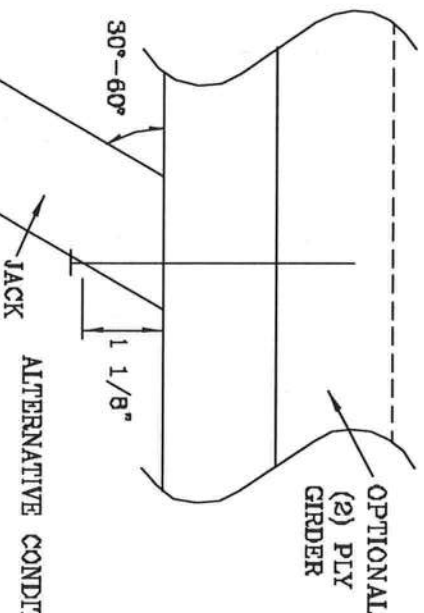
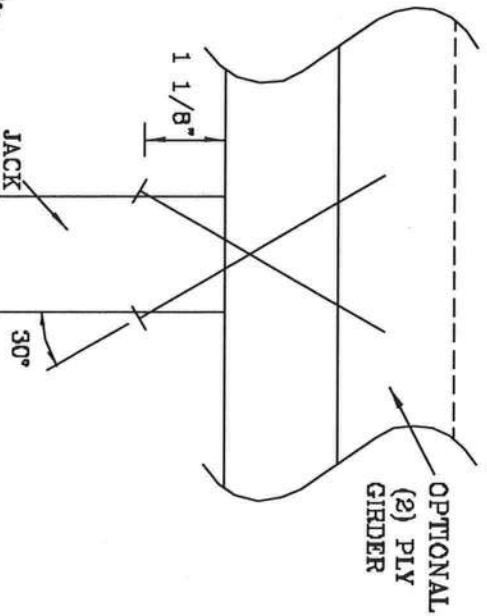
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE. PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

THIS DETAIL DISPLAYS A TOE-NAILED CONNECTION FOR JACK FRAMING INTO A SINGLE OR DOUBLE PLY SUPPORTING GIRDER.

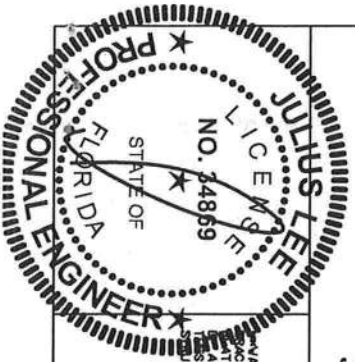
MAXIMUM VERTICAL RESISTANCE OF 16d (0.162"x3.5") COMMON TOE-NAILS

NUMBER OF TOE-NAILS	SOUTHERN PINE		DOUGLAS FIR-LARCH		HEM-FIR		SPRUCE PINE FIR	
	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS	1 PLY	2 PLYS
2	197#	256#	181#	234#	156#	203#	154#	199#
3	296#	383#	271#	351#	234#	304#	230#	298#
4	394#	511#	361#	468#	312#	406#	307#	397#
5	493#	639#	452#	585#	390#	507#	384#	498#

ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR.



THIS DRAWING REPLACES DRAWING 784040



WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST 1-03 CALLING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS LUMBER INSTITUTE, 388 BRUNNEN RD., SUITE 200, NATION, VA 22079 AND VTC4 (WOOD TRUSS COUNCIL, 10000 160TH AVE., SUITE 100, LITTLETON, CO 80120) FOR SAFETY PRACTICES PRIOR TO PERFORMING TRUSS CONSTRUCTION. ALL TRUSSES SHALL HAVE A PROPERLY ATTACHED REED BELT.

REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1490 8TH AVE
DEMOV BLK, FL 32444-2101

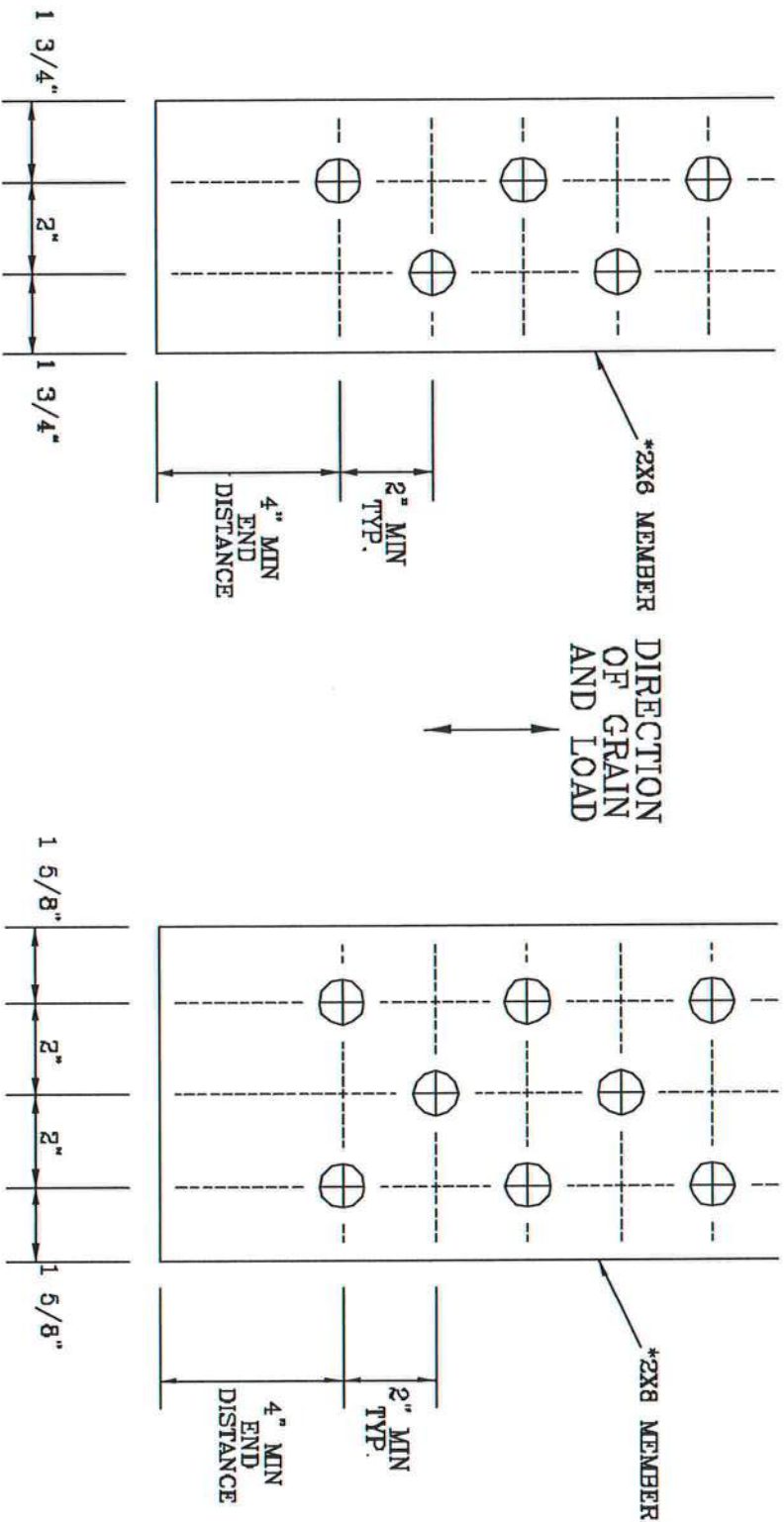
No. 34869
STATE OF FLORIDA

TC LL	PSF	REF	TOE-NAIL
TC DL	PSF	DATE	09/12/07
BC DL	PSF	DRWG	CNTONAIL103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.	1.00		
SPACING			

1/2" 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 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER.

TYPICAL LOCATION OF 1/2" DIAMETER THRU BOLTS. BOLT QUANTITIES AS NOTED ON SEALED DESIGN MUST BE APPLIED IN ONE OF THE PATTERNS SHOWN BELOW.
WASHERS REQUIRED UNDER BOLT HEAD AND NUT

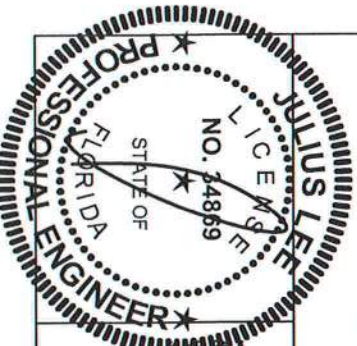


2X6 DETAIL

2X8 DETAIL

THIS DRAWING REPLACES DRAWING A828.016

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO 2001 I-20 BUILDING DEPARTMENT SAFETY RECOMMENDATION, PUBLISHED BY THE TRUSS ALPINE INSTITUTE, 380 DUNSTON DR., SUITE 200, MADISON, VT 05719, AND VITA CYCLO TRUSS COUNCIL, 1000 N. 10TH AVE., SUITE 100, DENVER, CO 80202. TRUSSES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) 360-10 SPECIFICATION FOR STRUCTURAL STEEL BUILDING. TRUSSES SHALL HAVE A PROTECTIVE COATING APPLIED TO ALL EXPOSED SURFACES.



REVIEWED
By Julius Lee at 11:59 am, Jun 11, 2008

JULIUS LEE'S
CONS. ENGINEERS P.A.
1450 BY 4th AVENUE
DELRAY BEACH, FL 33444-2491

No. 34869
STATE OF FLORIDA

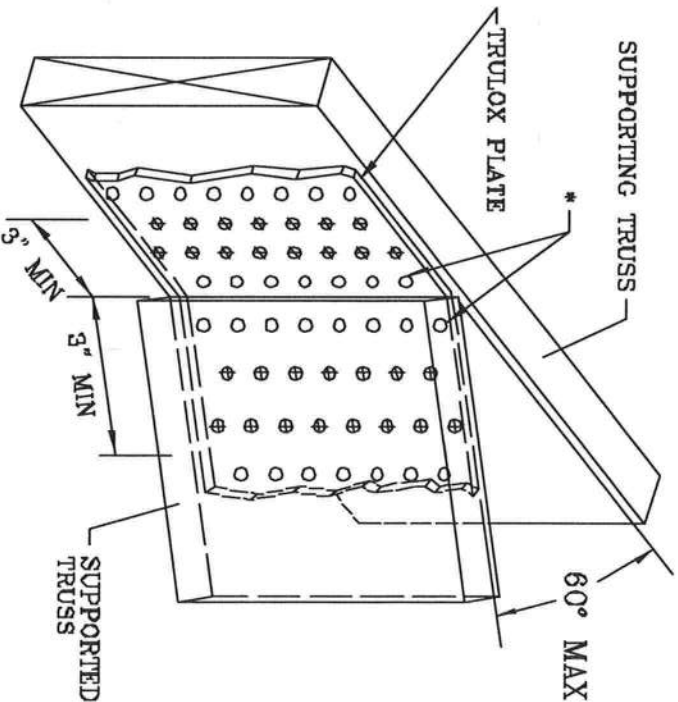
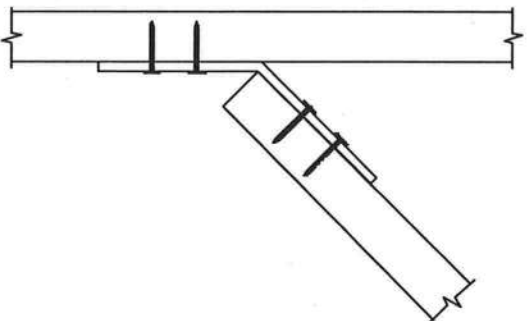
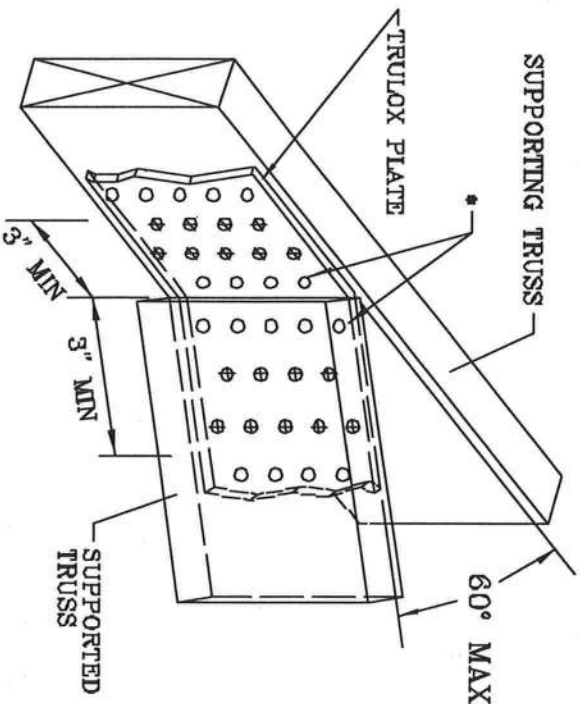
TC LL	PSF	REF	BOLT SPACING
TC DL	PSF	DATE	11/26/03
BC DL	PSF	DRWG	CNBOLSP1103
BC LL	PSF	-ENG	JL
TOT. LD.	PSF		
DUR. FAC.			
SPACING			

TRULOX CONNECTION DETAIL

11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (Φ).

* NAILS MAY BE OMITTED FROM THESE ROWS. THIS DETAIL MAY BE USED WITH SO, PINE, DOUGLAS-FIR OR HEM-FIR CHORDS WITH A MINIMUM 1.00 DURATION OF LOAD OR SPRUCE-PINE-FIR CHORDS WITH A MINIMUM 1.15 DURATION OF LOAD. CHORD SIZE OF BOTH TRUSSES MUST EXCEED THE TRULOX PLATE WIDTH.

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.



MINIMUM 3X6 TRULOX PLATE

TRULOX PLATE SIZE	REQUIRED NAILS PER TRUSS	MAXIMUM LOAD UP OR DOWN
3X6	9	350#
6X6	15	990#

MINIMUM 5X6 TRULOX PLATE

REVIEWED
By Julius Lee at 11:58 am, Jun 11, 2008

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

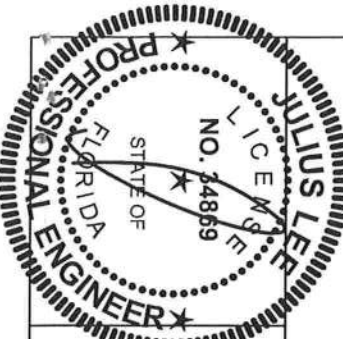
WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND
ERECTING. REFER TO R311 1-60 (BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY THE TRUSS
MANUFACTURERS ASSOCIATION, 580 JONATHAN DR., SUITE 200, WATSON, VT 05779) AND VITA (VITA TRUSS COUNCIL
OF AMERICA, 6300 ENTERPRISE LN, WATSON, VT 05779) FOR SAFETY PRACTICES PRIOR TO PERFORMING
TRUSS FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED
STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED ROOF CEILING.

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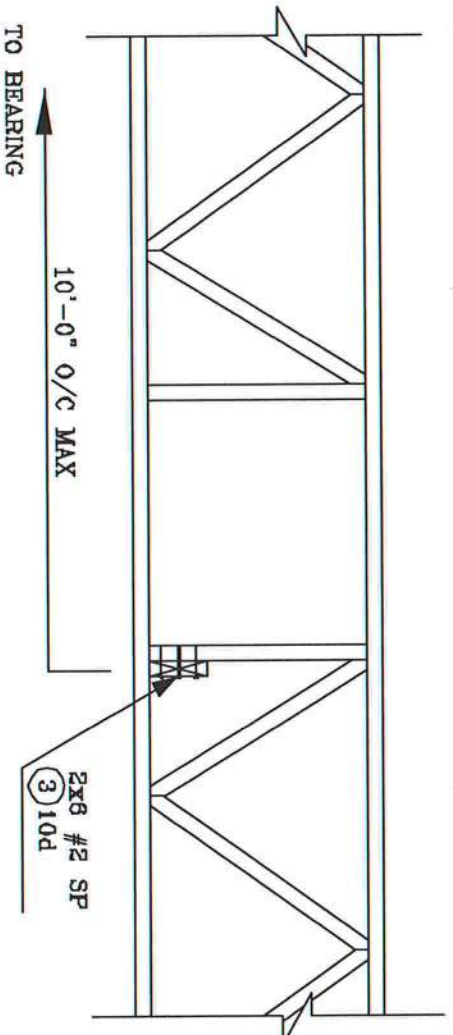
1455 SW 4th AVENUE
DELUAY BEACH, FL 33444-8181

REF TRULOX
DATE 11/26/03
DRWG CNTRULOX1103
-ENG JL

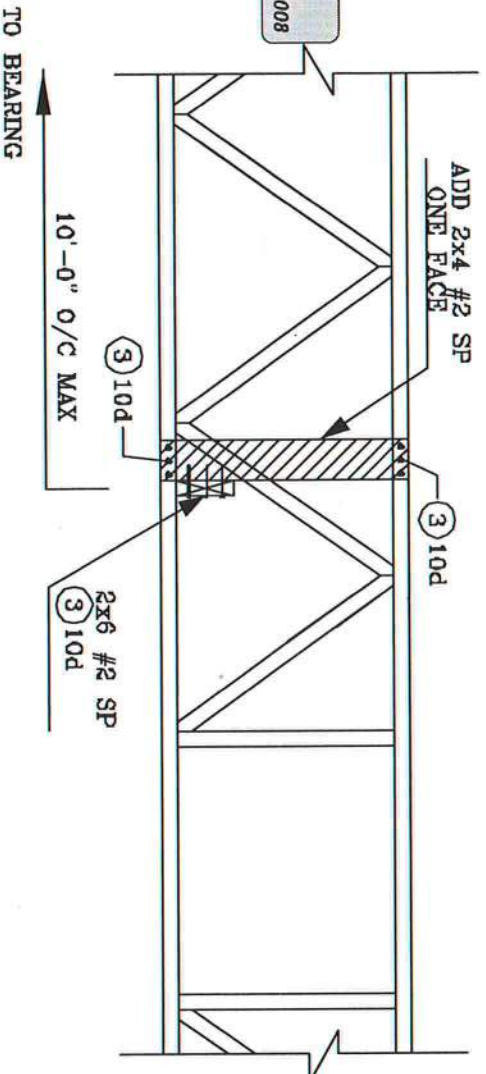
No: 34869
STATE OF FLORIDA



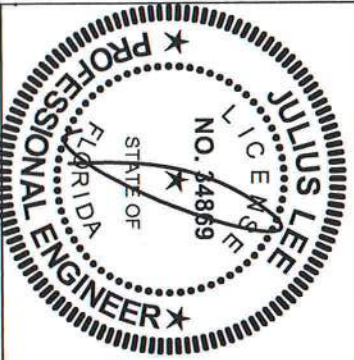
STRONG BACK DETAIL SYSTEM-42 OR FLAT TRUSS



ALTERNATE DETAIL FOR STRONG BACK WITH VERTICAL NOT LINING UP



REVIEWED
By Julius Lee at 11:58 am, Jun 11, 2008

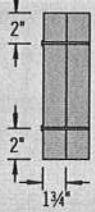
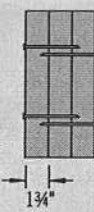
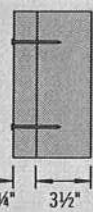
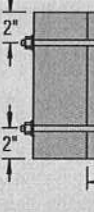


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MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

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

(1) 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 3/16" maximum.

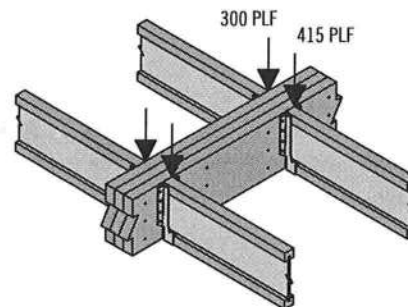
(3) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

(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 1/2 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



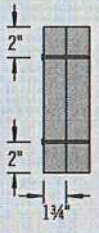
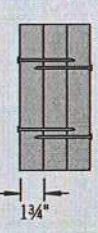
First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 1 3/4" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center 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 3 1/2" screws at 19.2" on-center.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

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

Connector Type	Number of Connectors	Connector Pattern					
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
							
		3 1/2" 2-ply	5 1/4" 3-ply	5 1/4" 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 3 1/2" 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)
3 3/8" or 5" TrussLok™	4	2,545	1,910(4)	1,910	1,695	1,925(2)	1,775(2)
	6	3,815	2,860(4)	2,860	2,545	2,890(2)	2,665(2)
	8	5,090	3,815(4)	3,815	3,390	3,855(2)	3,550(2)

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

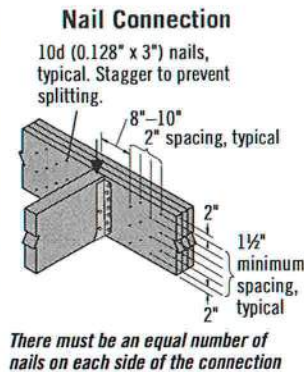
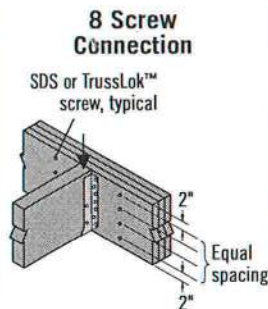
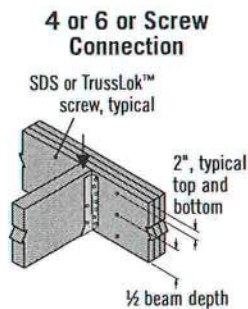
See General Notes on page 38

(2) 6" long screws required.

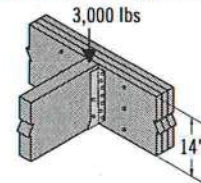
(3) 5" long screws required.

(4) 3 1/2" and 3 3/8" long screws must be installed on both sides.

Connections



Point Load Design Example



First, verify that a 3-ply 1 3/4" 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 1 3/4" assembly, eight 3 3/8" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

1 3/4" 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 3 3/8" 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

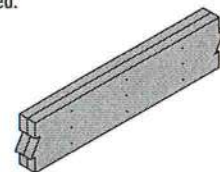
on both sides. Stagger fasteners on opposite side of beam by 1/2 of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.

3 1/2" 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 1/2 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 1/2" 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"

L6