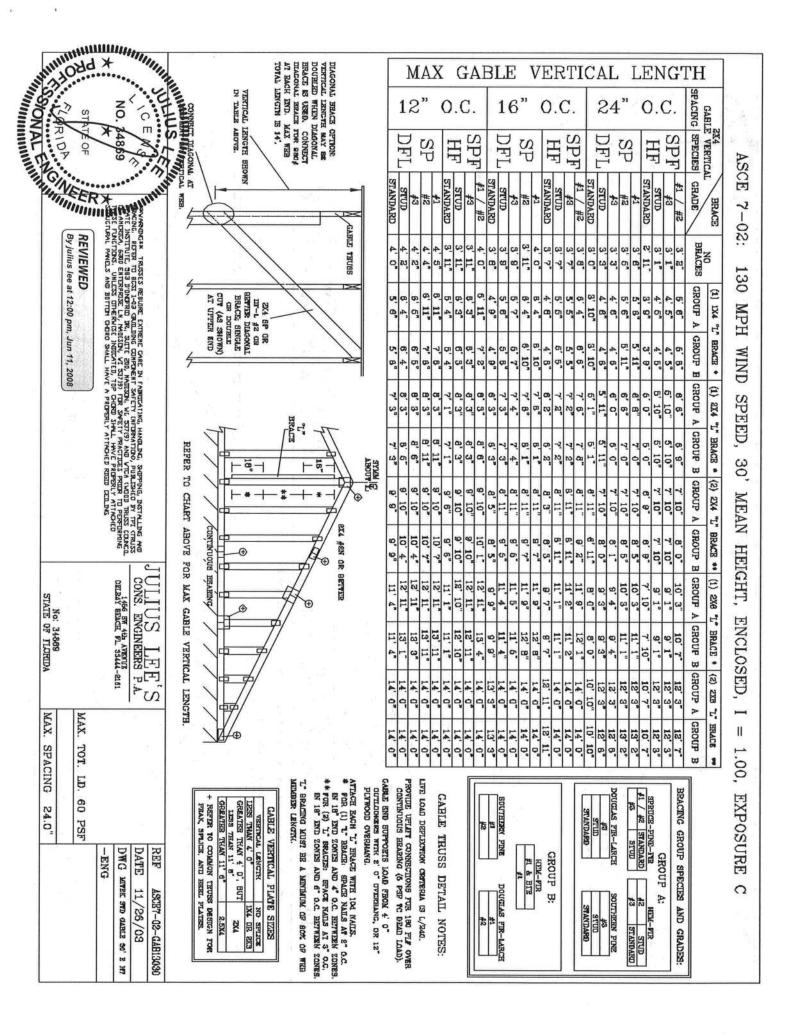
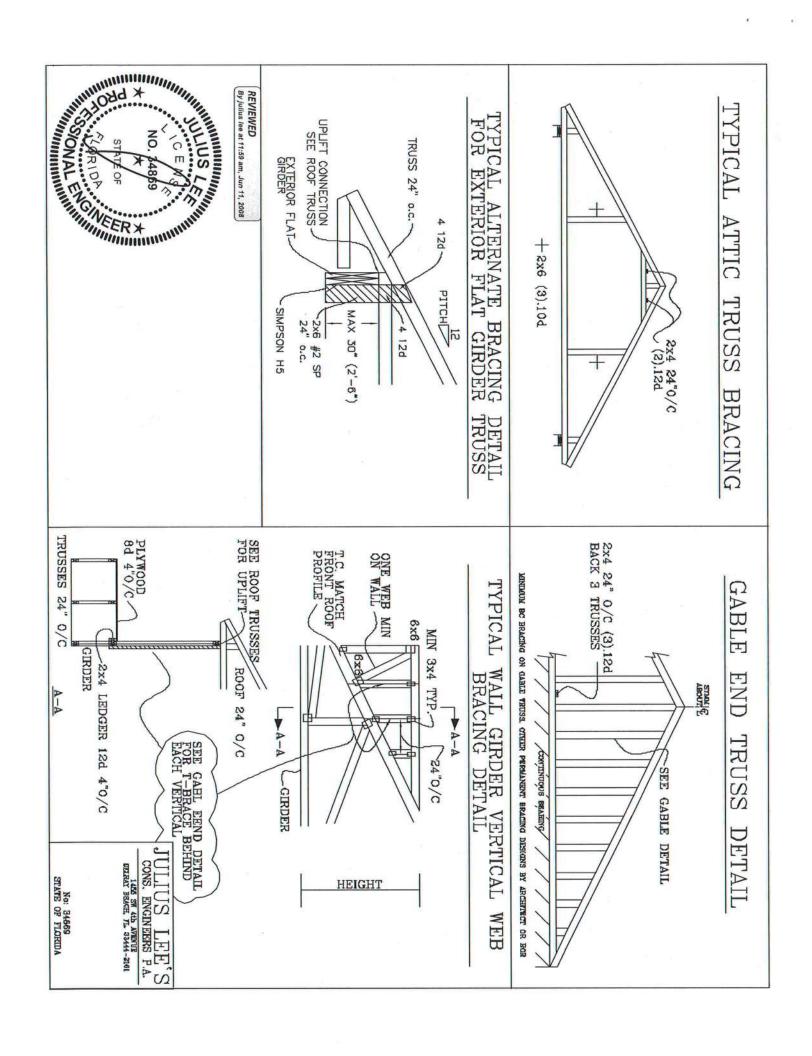


CONNECT DIAGONAL AT THE SEES REQUISE EXTREME CARE IN FARRICATING, SMEPPING, INSTALLING AND SHARE OF THE SEES REQUISE EXTREME CARE IN FARRICATING, MUBLISHED BY THE CHARLES OF THE CHARLES OF THE SAFETY PRACTICISMS, MUBLISHED BY THE CHARLES OF THE CHARLES OF THE SAFETY PRACTICISMS AND STOTICE CHARLES OF THE SAFETY PRACTICISMS AND STOTICE CHARLES OF THE SAFETY PRACTICISMS AND STOTICES OF THE SAFETY PRACTICES SHALL NAVE PROPERLY ATTACHED BY JULIUS INC. AND STOTICE CHARLES OF THE SAFETY PRACTICES SHALL NAVE PROPERLY ATTACHED BY JULIUS INC. AND STOTICE CHARLES OF THE SAFETY PRACTICES SHALL NAVE PROPERLY ATTACHED BY JULIUS INC. AND STOTICE CHARLES OF THE SAFETY PRACTICES SHALL NAVE PROPERLY ATTACHED BY JULIUS INC. AND STOTICE CHARLES OF THE SAFETY PRACTICES SHALL NAVE PROPERLY ATTACHED BY JULIUS INC. AND STOTICE CHARLES OF THE SAFETY PRACTICES SHALL NAVE PROPERLY ATTACHED BY JULIUS INC. AND STOTICES CHARLES OF THE SAFETY PRACTICES SHALL NAVE PROPERLY ATTACHED BY JULIUS INC. AND STOTICES CHARLES OF THE SAFETY PRACTICES CHARLES AND SAFETY PRACTICES CHARLES OF THE SAFETY PRACTICES CHARLES OF DIAGONAL BEACE OPTION: VERTICAL LENGTH MAY BE DOUBLED WHEN DIAGONAL ERACE IS USED. CONNECT ITLACONAL BEACE FOR 840 g AT EACH EVID. MAX WEB VERTICAL TOTAL LENGTH IS 14". MAX GABLE LENGTH IN TABLE ABOVE. SPACING SPECIES O.C. O.C. 16 GABLE VERTICAL SPF SPF DFL SPF DFL DFL SP SP SP ASCE STUD STANDARD #1 #2 NAOHB GRADE STANDARD STANDARD STANDARD STANDARD CUIS STUD 古鹊 BRACE 3 7-02: #2 GABLE TRUBS 3 9 10 20 00 EN 130 ZX4 EF #ZN, DF-L #Z, SPF #1/#Z, OR ENTER DIAGONAL BRACE; SINGLE OB DOUBLE CUT (AS SHOWN) AT UPPER END. GROUP A (1) 1X4 °L" BRACE • (1) 2X4 "L" BRACE • မ_{ို} မေ့ မေ့ m 22 4, 8, 8, 8 9, 0, 0 MPH GROUP H WIND GROUP A SPEED L'a GROUP B 15 THOORY C (2) 2X4 "L" BRACE ** (1) 2X6 "L" BRACE * (2) 2XB "L" BRACE GROUP A MEAN EX4 #EN OR BRITISH CONTINUOUS ABOVE FOR MAX GABLE GROUP B 10' 2" HEIGHT, ULIUS LEE'S cons. ENGINEERS P.A. **HEARING** GROUP A DELRAY HEACH, FL 33444-2161 13' 8" No: 34869 STATE OF FLORIDA ENCLOSED, GROUP B 13 B B 0 VERTICAL LENGTH GROUP A Н XAX. MAX. GROUP B II 14' 0" 13' 3" **(** TOT. SPACING 1 .00 E ATTACE EACH "L" BRACE WITH 104 NAIS. # FOR (1) "L" BRACE; SPACE WALLS AT 2" O.C. # FOR (2) "L" BRACE; AND 4" O.C. HETMEN ZONES. ## FOR (2) "L" BRACES; SPACE WALLS AT 3" O.C. IN 18" END ZONES AND 6" O.C. HETMEN ZONES. CABLE END SUPPORTS LOAD FROM 4' O" PROVIDE UPLIFT CONNECTIONS FOR 136 FLF OVER CONTINUOUS BEARING (6 PSF TC DEAD LOAD). T. BRACING MUST BE A MINIMUM OF 80% OF WEB MINIBER LENGTH. LIVE LOAD DEPLECTION CRITERIA IS L/240. SPRUCE-PINE-INB #3 STUD BRACING GROUP SPECIES PLYWOOD OVERHANG. DOUGLAS FIR-LARCH EXPOSURE GABLE TRUSS DETAIL NOTES: SOUTH PARTHUDS 60 GREATER THAN 4 D' BUT GRANDING GUITE GUITE 24.0 PEAK SPLICE, AND HEEL PLATES. GABLE VERTICAL PLATE SIZES PSF DATE REF DRWG GROUP HEM-PIR GROUP DOUGLAS FIR-LARCH 0 MILES SID CABLE 16 E HI 11/26/03 ASCB7-02-CAB13015 ä SOUTHERN PORE #3 9TUD STANDARD A: i i NO SPLICE AND NZ. STANDARD GRADES: COIS





BOT CHORD 2X4 2X4 2X4 ながは 品品品 BETTER BETTER

PIGGYBACK DETAIL

TABLE

SPANS

Ą

5

30

34

88

52

2.5X4

2.6X4

5X6

8XG

BX8 3X5 REFER TO SEALED DESIGN FOR DASHED PLATES.

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

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

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

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

THIS DETAIL IS APPLICABLE FOR THE FOLLOWING WIND CONDITIONS: 110 MPH WIND, 30' MEAN HGT, ASCE 7-02, CLOSED BILDG, 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' MBAN HGT, FBC ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TC DL-5 PSF, WIND BC DL-5 PSF

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

H

AXB **5X**4 EX3 488 2X4

OR SX6 TRULOX AT 4' HOTATED VEHTICALLY

DC,

U a H >

5X6

1.5X4

1.5X4 500

1.5X4 **BX**6

FRONT FACE (B,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS HOTH FACES ARE SPACED 4' OC MAX. LOCATION IS
ACCEPTABLE 20' FLAT TOP CHORD MAX SPAN T Z H W #2 OR BETTER Ш D-SPLICE 两

HTTONA THE		ATTACH TRULOX PIEQUAL, PER FACE BE CONNECTED. I
	WEB I	PLATES PER P REFER
HROI	TRACING	WITH (6) LY. DRA TO DRA
RECITER HEACING	CHART	PLATES WITH (8) 0.120" X 1.375" NAILS, E PER PLY. (4) NAILS IN EACH MEMBER REFER TO DRAWING 160 TL FOR THULOX
DALOV.		X 1.375" N BACH TL FOR
		MAILS, OR MEMBER TO THULOX
		22

7'9" ō 0' TO 7'9" S TO 10' 1x4 "T" BRACE. SAME GRADE, SPECIES AS I MEMBER. OR BETTER. AND 80% LENGTH OF I MEMBER. ATTACH WITH 8d NAMES AT 4" OC. 2x4 "T" BRACE. SAME GRADE, SPECIES AS WEB MEMHER, OR HETTER, AND 80% LENGTH OF WEH MEMHER. ATTACH WITH 164 NAILS AT 4" OC. NO BRACING WE'S W

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF FABRICATION. ATTACH TO SUPPORTING TRUSS WITH (4) 0.120 % 1.275" NAILS PER FACE PER PLY. APPLY PIGGYBACK SPECIAL PLATE TO EACH TRUSS FACE AND SPACE 4' OC OR LESS.

THIS DRAWING REPLACES DRAWINGS 8 1/4" 634,016 634,017 & 847,045

20

CONS. DEREAY BEACH, FL. 33444 -2161 US LEE'S 50 PSF 1.25 DUR. 1.15 55 PSF AT 1.33 DUR. FAC. MAX LOADING 47 PSF AT FAC. FAC. DATE REF DRWGMITEK -ENG JL 09/12/07 PIGGYBACK STD PIGGY

C

NO. 44869

123

-TYP

No: 34866 STATE OF FLORIDA

SPACING

VALLEY TRUSS DETAIL

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

- ZX3 MAY BE RIPPED FROM A ZX6 (PITCHED OR SQUARE).
- * ATTACH EACH VALLEY TO EVERY SUPPORTING TRUSS WITH: ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, ENC BUILDING, EXP. C, RESIDENTIAL, WIND TC DI=5 PSF. FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND ASCE 7-02 130 MPH WIND. 16' MEAN HEICHT, (2) 18d BOX (0.135" X 3.5") NAILS TOE-NAILED FOR OR (3) 16d FOR ENCLOSED

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

MAXIMUM VALLEY VERTICAL HEIGHT MAY NOT EXCEED 12'0"

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

PURLINS AT 24" ENGINEERS' SEALED DESIGN. BY VALLEY TRUSSES USED IN OC OR AS OTHERWISE SPECIFIED ON ENGINEERS' SEALED DESIGN LIEU OF PURLIN SPACING AS SPECIFIED NO

* ++ LARGER SPANS MAY BE NOTE THAT THE PURLIN NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF NOT EXCEED 12'0". BUILT AS LONG AS THE VERTICAL HEIGHT DOES CHORD OF THE TRUSS

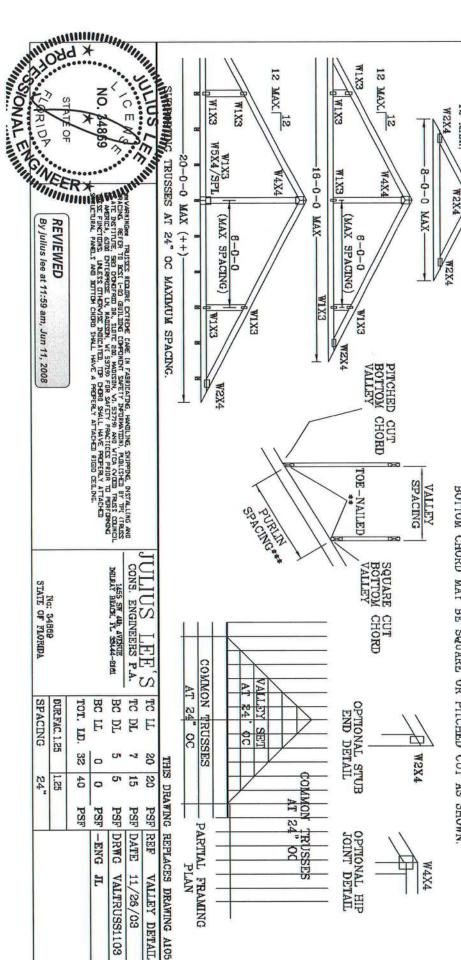
LARGER AS REQ'D

4-0-0

MAX

12 NAX.

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN



CONS.

ENGINEERS P.A.

DL

DELRAY BEACH, IL SOLAH-SICI

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PSF PSF DRWG PSF DATE

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VALTRUSS1103 11/26/03

32

40

PSF

No: 34869 STATE OF FLORIDA

SPACING DURFAC 1.25 TOT. LD.

24

1.25

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.

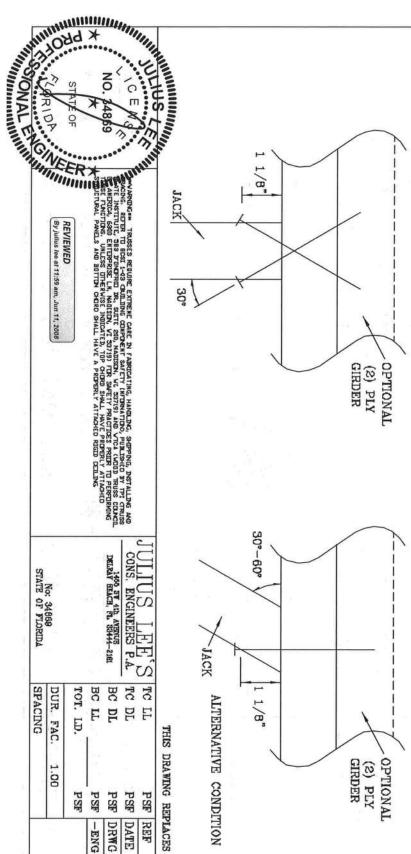
PER ANSI/AF&PA NDS-2001 SECTION 12.4.1 — EDGE DISTANCE, END DISTANCE, SPACING: "EDGE DISTANCES, END DISTANCES AND SPACINGS FOR NAILS AND SPIKES SHALL BE SUFFICIENT TO PREVENT SPLITTING OF THE WOOD."

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 OR DOUBLE PLY SUPPORTING GIRDER.

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

NUMBER OF		SOUTHERN PINE	DOUGLAS	DOUGLAS FIR-LARCH		HEM-FIR	SPRUCE PINE FIR	day and
TOE-NAILS	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES	1 PLY	2 PLIES
N	187#	256#	181#	234#	156#	203#	154#	
ω	296#	383#	271#	351#	234#	304#	230#	
4	394#	511#	361#	468#	312#	406#	307#	
cn	493#	639#	452#	585#	390#	507#	384#	-
ALL VALUE	S MAY B	E MULTIPLIE	ED BY API	PROPRIATE	DURATION	ALL VALUES MAY BE MULTIPLIED BY APPROPRIATE DURATION OF LOAD FACTOR	CTOR	1



SIHL
DRAWING
REPLACES
DRAWING
784040

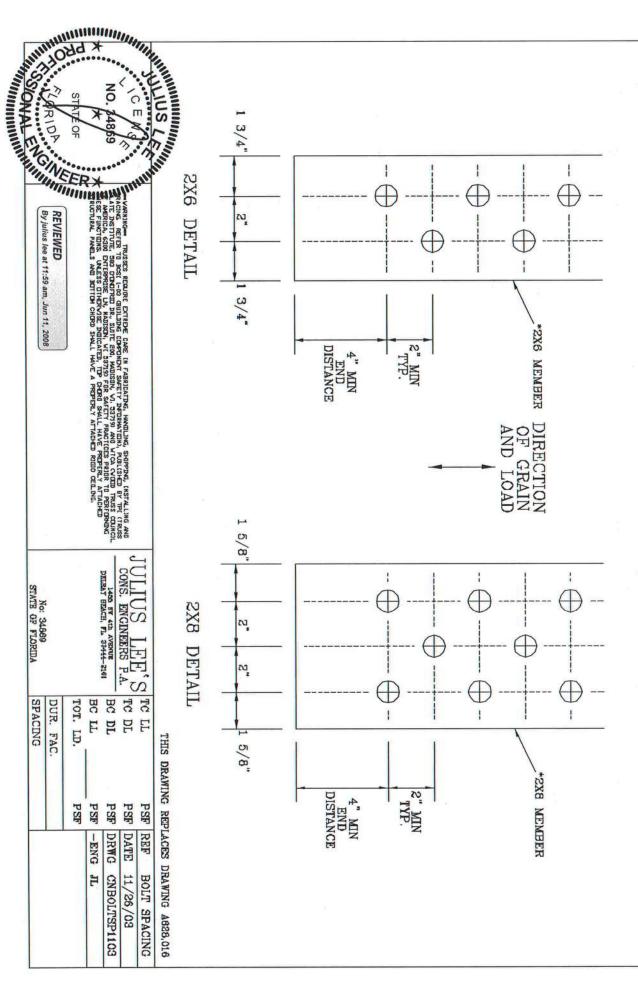
	By julius lee at 11:59 am, Jun 11, 2008	REVIEWED	BUTTERAL PANELS AND BUTTON CHORD SHALL HAVE A PROPERLY ATTACHED RIGHD CELLING	III JR., SUITE 20D, NADISON, WI 337(9) AND VTCA (WOOD TRUSS LN, NADISON, VI 337(9) FOR SAFETY PRACTICES PRINT TO PERS LEGIVIES INTERPRETATES TO SUPPLY SAFETY PRACTICES PRINT TO PERS	AVARADAS — TRUSSES REDURE EXTREME CARE IN FARRICATING, HANDLING, SAIDPING, INSTALLING AND SACING, RETER TO BISI 1-03 CHUILING COMPONENT SAFETY (METRALING, SAIDPING, INSTALLING AND	
STATE OF FLORIDA	No: 34889	1100		DELRAY SEACH, FL. S3444-2161	CONS. ENGINEERS P.A.	S'AE'I SOLINI
SPACING	DUR. FAC.	TOT. LD.	BC LL	BC DL	TC DL	TC LL
	1.00	PSF	PSF	PSF	PSF	PSF
			-ENG JL	DRWG	DATE	REF
			T	CNTONAIL1103	09/12/07	TOE-NAIL

DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN

BOLT HOLES SHALL BE A MINIMUN OF 1/32" TO A MAXIMUM OF 1/16" LARGER THAN BOLT DIAMETER. GRADE AND SPECIES AS SPECIFIED ON THE ALPINE DESIGN

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

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



No: 34869 STATE OF FLORIDA

SPACING

DUR. FAC.

TRULOX CONNECTION

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

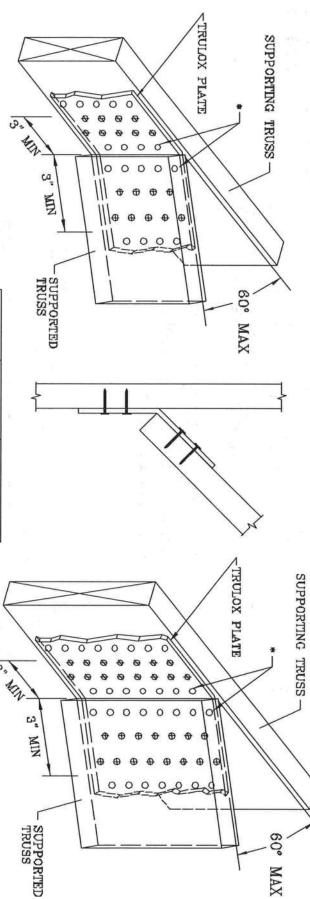
NAILS MAY BE OMITTED FROM THESE ROWS

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. BOTH TRUSSES MUST

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

MAX



MINIMUM 3X6 TRULOX PLATE TRULOX PLATE SIZE **9X9** 3X6 REQUIRED NAILS PER TRUSS 15 9

MAXIMUM LOAD UP OR DOWN

#088 350#

REVIEWED

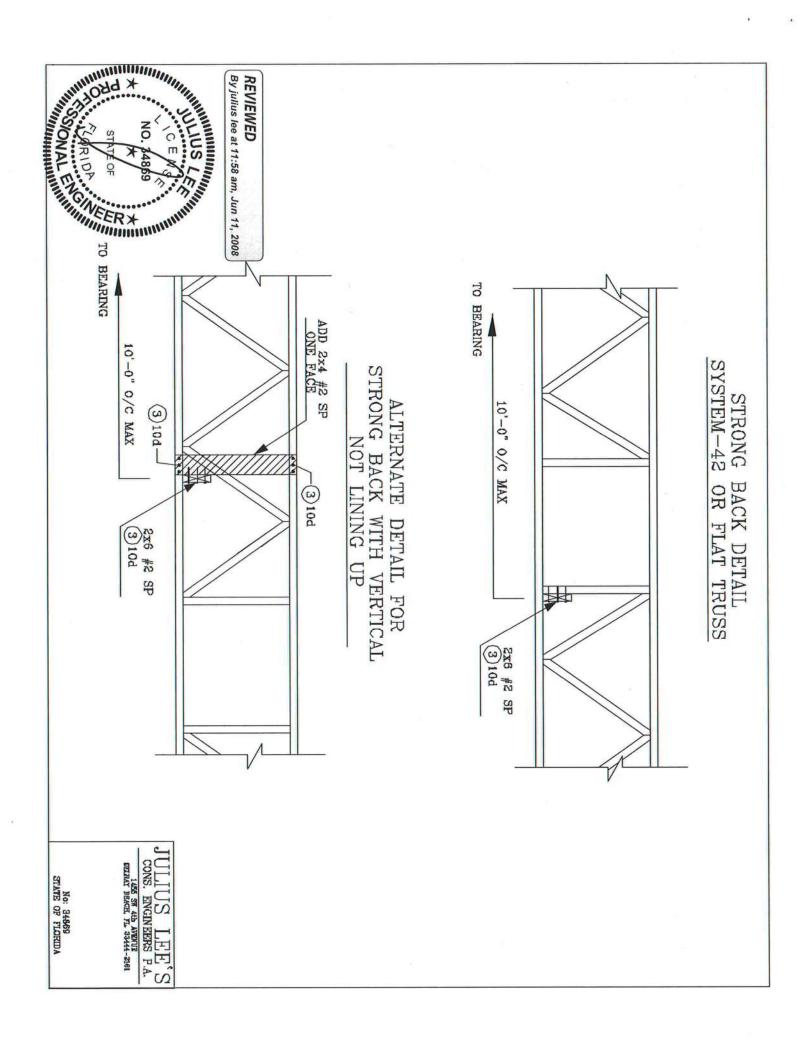
MINIMUM 5X6 TRULOX PLATE

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,981 1,154,844 1,152,217 1,152,017 1,159,154 & 1,151,524 1,158,989/R

CONS. ENGINEERS P.A. DELEVA BEYOR' IL 32444-5161 No: 34869 STATE OF FLORIDA -ENG DATE REF DRWG IL CNTRULOX1103 11/26/03 TRULOX

NO. 44869

NO. 44869 "RIUSES REQUIRE EXTREME CARE IN FABRICATING, HAVILLING, SHIPPING, INSTALLING AND REFER TO 3631 1-00 (BUILLING COMPOINT) SAFETY DEFORMATION, PUBLISCED BY THY (TRASS DITUTE), SES DYNOFFEED BY, SAITE EOD, MAISSIN, V. 1. 39759 AND VITCA COURT TO REFERENCE CYCING, UNLESS OFTHENVIS COLIVERI, 6,600 ENTENVIS OFTHENVIS COLIVERI, OF THE SAFETY PROFITED FOR TO PEFFENNE CYCING, UNLESS OFTHENVIS COLIVERI TO CORRO SAILL HAVE PROFIDERLY ATTACHED ROOT CEILLING.



MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

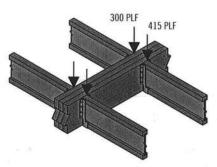
					C	onnector Pattern		
			Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F
Connector Type	Number of Rows	Connector On-Center Spacing	134"	134"	11/1" 31/2"	134" 3W" 134"	1 3/6	14.
			31/2" 2-ply	51/4" 3-ply	5½" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply
10d (0.128" x 3")	2	12"	370	280	280	245		
Nail®	3	12"	555	415	415	370	Marketon (may) 1871 - Ser	AMPRICATION AND ASSESSMENT
1/2" A307		24"	505	380	520	465	860	340
Through Bolts(2)(4)	2	19.2"	635	475	655	580	1,075	425
тисяви эсле		16"	760	570	785	695	1,290	505
SDS 1/4" x 31/2"(4)		24"	680	510	510	455	加州的特别的	
	2	19.2"	850	640	640	565		AND DESCRIPTION OF THE PARTY OF
		16"	1,020	765	765	680	MENTAL MENTAL MANAGEMENT	
SDS 1/4" x 6"(3)(4)		24" 19.2"			NOT THE RESIDENCE OF	455	465	455
3D3 74 X B (8/14)	2	16.2	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa		DESCRIPTION OF	565 680	580 695	565
		24"	480	360	360	320	033	680
USP WS35 (4)	2	19.2"	600	450	450	400	Upha Harris II had been been been been been been been bee	
031 11303		16"	715	540	540	480	Maria Carlo Bullion Maria	Carried State of Stat
		24"	140	070	010	350	525	350
USP WS6 (3)(4)	2	19.2"			TO THE REAL PROPERTY.	440	660	440
		16"				525	790	525
		24"	635	475	475	425	Take a series of the series of	
33/8" TrussLok ⁽⁴⁾	2	19.2"	795	595	595	530		
HUSSEOK		16"	955	715	715	635	RESIDENCE TO SECURE	MENTERS VALUE VASUE
		24"	Testo	500	500	445	480	445
5" TrussLok ⁽⁴⁾	2	19.2"		625	625	555	600	555
HUSSEUN		16"		750	750	665	725	665
63/4"		24"				445	620	445
TrussLok(4)	2	19.2"		100 feet	il.	555	770	555
		16"	数字编译 法			665	925	665

⁽¹⁾ Nailed connection values may be doubled for 6" on-center or tripled for 4" on-center nail spacing.

General Notes

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

Uniform Load Design Example



First, check the allowable load tables on pages 16–33 to verify that three pieces can carry the total load of 715 plf with proper live load deflection criteria. Maximum load applied to either outside member is 415 plf. For a 3-ply 134" assembly, two rows of 10d (0.128" x 3") nails at 12" on-center is good for only 280 plf. Therefore, use three rows of 10d (0.128" x 3") nails at 12" on-center (good for 415 plf).

Alternates:

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

⁽²⁾ Washers required. Bolt holes to be 9/16" maximum.

^{(3) 6&}quot; SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

^{(4) 24&}quot; on-center bolted and screwed connection values may be doubled for 12" on-center spacing.

MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

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

		Connector Pattern							
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F		
Connector Type	Number of Connectors		-11-	134 31/2"	130° 130° 130°	225	134		
		3½" 2-ply	51/4" 3-ply	51/4" 2-ply	7" 3-ply	7" 2-ply	7". 4-ply		
	6	1,110	835	835	740		. /		
10d (0.128" x 3")	12	2,225	1,670	1,670	1,485		THE SECOND SECOND		
Nail	18	3,335	2,505	2,505	2,225		71		
	24	4,450	3,335	3,335	2,965	or the same	数性 多。自身整		
SDS Screws 1/4" x 31/2" or WS35 1/4" x 6" or WS6(1)	4	1,915	1,435(4)	1,435	1,275	1,860(2)	1,405(2)		
	6	2,870	2,150 (4)	2,150	1,915	2,785(2)	2,110(2)		
	8	3,825	2,870 (4)	2,870	2,550	3,715(2)	2,810(2)		
02/1154	4	2,545	1,910 (4)	1,910	1,695	1,925(3)	1,775(3)		
33/8" or 5" TrussLok™	6	3,815	2,860 (4)	2,860	2,545	2,890(3)	2,665(3)		
HUSSEUK	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) 31/2" and 31/4" long screws must be installed on both sides.

Connections

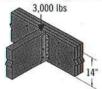
4 or 6 or Screw Connection SDS or TrussLok™ screw, typical 2", typical top and bottom ½ beam depth

8 Screw Connection SDS or TrussLok™ screw, typical 2" Equal spacing 2"

Nail Connection 10d (0.128" x 3") nails, typical. Stagger to prevent splitting. 8"-10" 2" spacing, typical 1½" minimum spacing, typical

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

Point Load Design Example



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

MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

13/4" Wide Pieces

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

31/2" Wide Pieces

■ Minimum of two rows of SDS, WS, or TrussLok™ screws, 5° minimum length, at 16° on-center. 6° SDS and WS screws are not recommended for use with TimberStrand® LSL. Connectors must be installed on both sides. Stagger fasteners on opposite side of beam by ½ of the required connector spacing.

- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded beams.
- Minimum of two rows of ½" bolts at 24" on-center staggered.



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

