

By julius lee at 7:44 pm, Aug 19, 2008

Project Information:

Builder: Clayton Cray

Model: Custom

Builders FirstSource Job #: L286892

Street: 414 SW BLACK GLEN

City: Lake City

Roof: 32 psf Total

Floor: 55 psf Total

County:

Building Code: FBC2004/TPI2002

Computer Program Used: MiTek 6.3

Truss Design Information:

Gravity Loads

Wind

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

Mean Roof Ht: 18 ft

Builders FirstSource S 2525 E. Duval St Lake City, FL 3205 JULIUS LEE'S CONSULT ENGR INC 1455 SW 4TH AVE , DELRAY BEACH

FLORIDA. 33444

Exposure: B

Design Professional Information:

Design Professional Of Record: Owner Bldr.

Delegated Truss Engineer: Julius Lee

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

License #:

License #: 34869

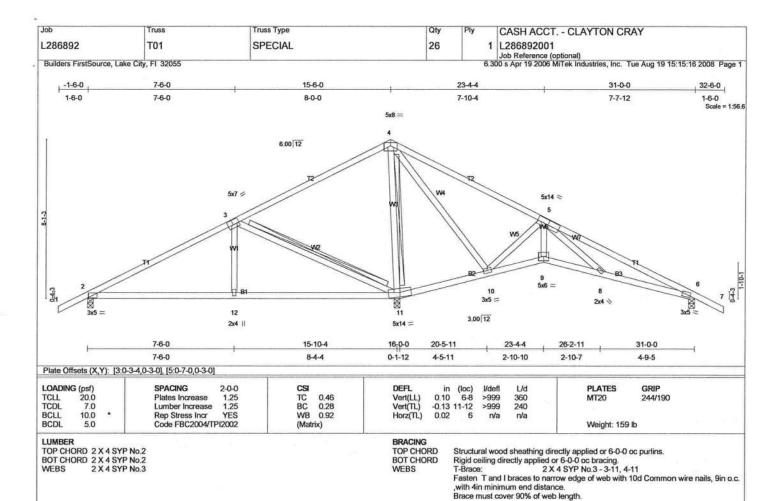
This truss specification package consists of this index sheet and 2 truss design drawings Received This signed and sealed index sheet indicates acceptance of my professional engineering responsibility solely for listed truss design drawings. The suitability and use of cach truss component for any particular building is the responsibility of the building designer per Code ompliano

Fruss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date	Truss #	Truss Label	Drawing #	Seal Date
1	T01	L286892001	8/19/2008					1			Dute
2	T01G	L286892002	8/19/2008					1		+	
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Project Information:	Builder: Clayton Cray	Builders FirstSource
	Model: Custom	2525 E. Duval St.
	Builders FirstSource Job #: L286892	Lake City, FL 32055

		*



REACTIONS (lb/size) 2=379/0-3-8, 11=1431/0-3-8, 6=333/0-3-8

Max Horz 2=-118(load case 7)
Max Uplift2=-102(load case 6), 11=-567(load case 6), 6=-282(load case 7) Max Grav 2=487 (load case 10), 11=1431 (load case 1), 6=361 (load case 11)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

WERS

- Maximum Compression/maximum Terision 1-2=0/35, 2-3=-535/191, 3-4=-560/523, 4-5=-129/389, 5-6=-485/921, 6-7=0/34 2-12=-148/419, 11-12=-145/421, 10-11=-467/994, 9-10=-107/243, 8-9=-110/241, 6-8=-643/378 3-12=0/264, 3-11=-644/456, 4-11=-1000/1258, 4-10=-774/346, 5-10=-593/763, 5-9=-151/132, 5-8=-753/273

JOINT STRESS INDEX

2 = 0.61, 3 = 0.85, 4 = 0.95, 5 = 0.37, 6 = 0.69, 8 = 0.38, 9 = 0.23, 10 = 0.44, 11 = 0.64 and 12 = 0.34

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

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

2) Wind: ASCE 7-02; 110mph (3-second gust); h=18t; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS and C-C Exterior(2) zone; porch right exposed; Lumber DOL=1.60 plate grip DOL=160. This trust is designed for C-C for members and forces, and for MWFRS for reactions specified.

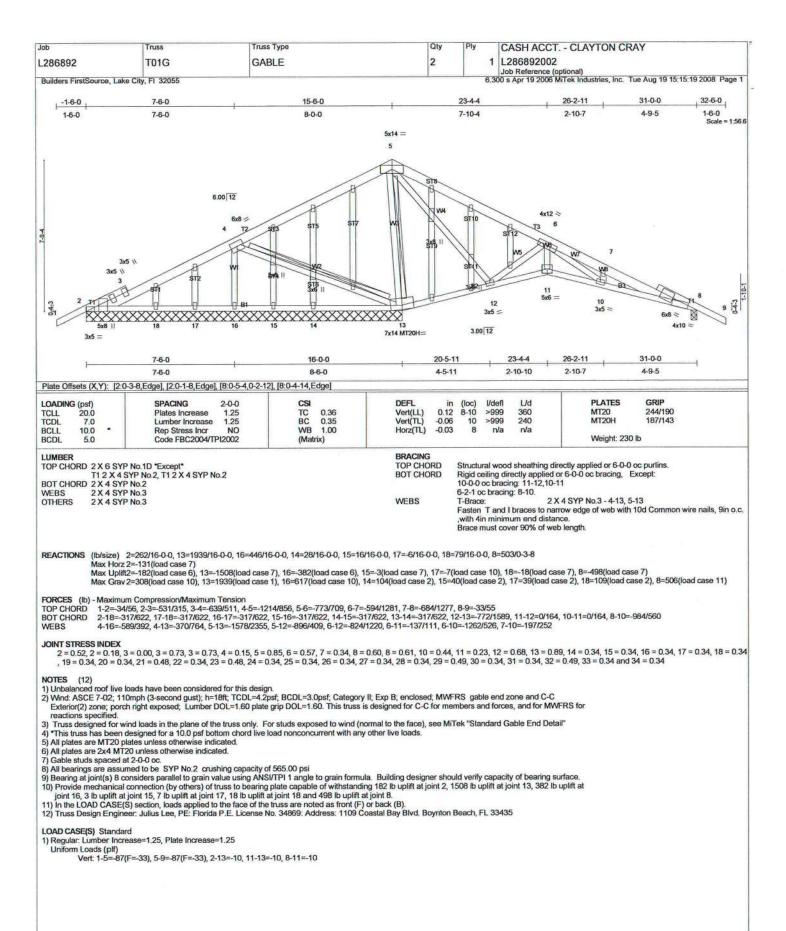
3) *This trust has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

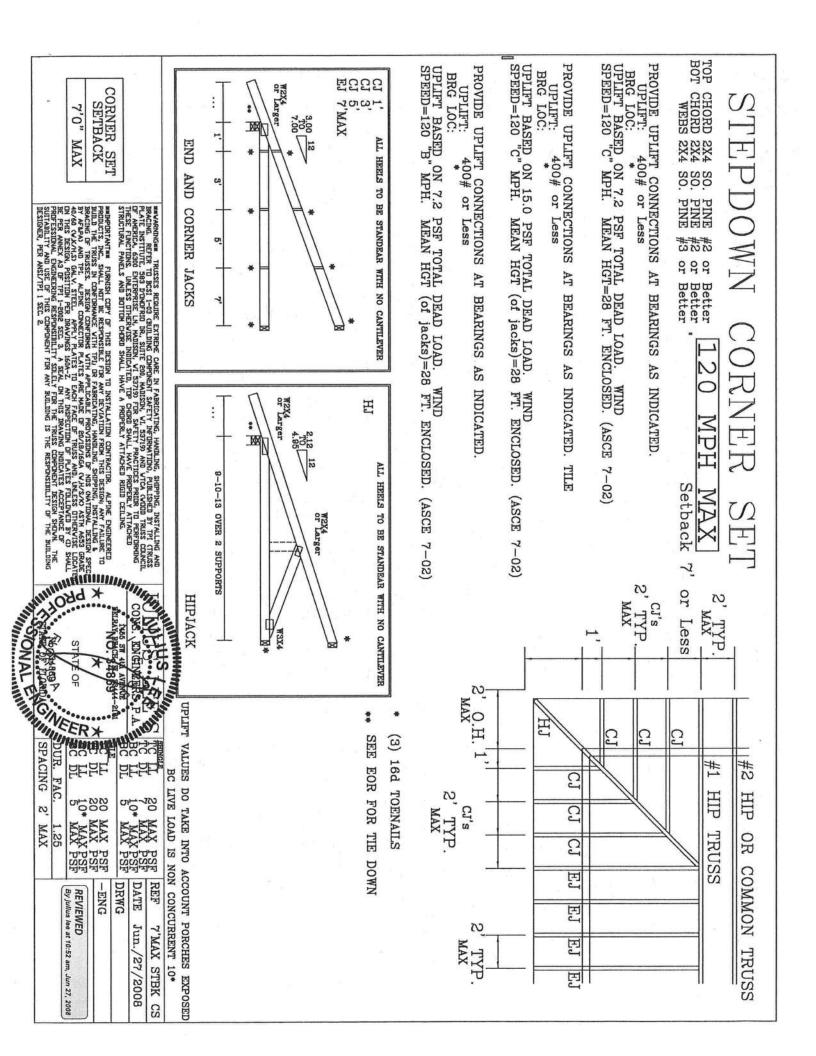
4) All bearings are assumed to be SYP No.2 crushing capacity of 565.00 psi

1) Received a limit(*) 6 considers expelled to green value using value using a long to the property of basings and the property of basings and the property of basings are set to the property of basings and the property of basings are set to the property of basings and the property of basings are set to the property of basings and the property of basings are set to the property of the property of basings are set to the property of the property o

- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2, 567 lb uplift at joint 11 and 282 lb uplift. at joint 6.
- 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





ASCE 7-02: 130 MPH WIND SPEED, 15 MEAN HEIGHT, ENCLOSED, 11 1.00, EXPOSURE C

	1	2	31		0	.(٦.			1	6	31		0	.(7.	7000		2	4	51		0	.(C.		SPACING SPECIES GRADE	CARIE
		1	7	j	TIT	H	TITU	מחה		1	1	CC.	j	TIL		OFT	בודו		L H	1	7	j	TIL	5	מלי	מחה	SPECIES	CARLE VERTICAL
STANDARD	STUD	#3	#12	#1	STANDARD	STUD	£3	£1 / #2	STANDARD	STUD	13	#23	14	STANDARD	STUD	B#	打 / #2	STANDARD	STUD	13	#23	14	STANDARD	STUD	₽\$	和 / #2	GRADE	BRACE
4' 3"	4' 4"	4' 4"	4' 7"	4' 8"	4' 2"	4 2"	4. 2"	4. 3.	3' 10"	4' 0"	4' 0"	4' 2"	4, 3,	3' 8"	3' 9"	3' 8"	3, 10,	3' 4"	3' 6"	3' 6'	3' 7"	3' 8"	3. 3.	3' 3"	3' 3"	3' 4"	BRACES	Z O
6' 1"	7' 1"	3, 5,	7' 4"	7' 4"	6' 11"	6' 11"	6' 11"	7' 4"	5' 3"	6' 1°	8. 9	8' 8"	B, B,	S)	8' 0"	8, 0,	8.8	4' 3"	5' 0"	5. 0.	6' 10"	5' 10"	4' 2"	4' 11"	4" 11"	6' 10"	GROUP A	(1) 1X4 "L"
6' 1"	7' 1"	7' 2"	73 11"	7' 11"	6' 11"	8' 11"	6' 11"	4. 4.	5' 3"	6'1"	6' 2"	7' 2"	7' 2"	6. 5.	8' 0"	B' 0"	e, To.	4' 3"	5' 0"	6'0"	8' 3"	6' 3"	4, 5,	4' 11"	4' 11"	8′0"	GROUP H	BRACE .
B' 0°	8, 8,	B, 8,	B' 9"	8, 8,	7' 10"	B, 8,			6" 11"		7' 11"	7' 11"	7' 11"	6, 10,	7' 11"			5' B*	8, 20	6. 8.	6' 11"	8' 11"	5' 6'	100	6' 6"		GROUP A	(1) 2X4 "L"
8' 0"	9, 12,	8,	8' 5"	8, 2,	7' 10"	8' S"	B, 8,	8' 11"	6' 11"	B' 1°	B. 8.	8' 8"	B, 8,	e. 10.	7' 11"	7 11"	8' 1"	5' B"	6, 3,		7' 6"	7' 50		6, 5,	6, 6,	7' 1"	GROUP B	BRACE .
10' 5"	10' 6"	10' 5"	10' 6"	10' 5"	10' 6"	10' 5"	10' 5"	10' 6"	9' 4"	8' 5"	9. 6.	8, 9,		8,	- 1	9 5	9' 6"	7' 8"	8' 3"	B' 3"		8' 3"	7' 5"	B' 8"	8' 3"		GROUP A	(2) 2X4 "L"
10' A"	10' 11"	10' 11"	11' 2"	11' 2"	10' 6"	10' 5"			8' 4"	9' 11"		10' 2"			9' 5"			7' 8"		8' 8"	8777	B' 11°	- 7	B' 8"			GROUP B	BRACE **
12" 6"	13' 8"	13' 6"		13' 8"		13' 8"	13' 8"	13' 8°	10' 10"	12' 5"	12' 6'	12' 6"	12' 5"	10' 7"	12' 4"	12' 4"	12. 6.	8' 10°	10' 3"	10' 4"	10' 10"	10, 10,	g. 8,	10' D"		10' 10"	GROUP A	(1) 2X8 (1)
12' 6"	14. 0.	14' 0"	14' 0"	14' 0"	12' 3"	13' 6"	13' 8"	14' 0"	10' 10"	12' 6"	12' 8"	18' 5"	13' 5"	10. 7.	12' 4"	12' 4"	12, 8,	8' 10"	10' 3"	10' 4'	11' 8"	11' 8"	8, 8,	10' 0"	10' 1"	11, 2,	GROUP	BRACE .
14' 0"	14' Q"	14' 0"	14' 0"	14' O"	14' Q"	14' 0"	14' 0"	14. 0.	14' 0"	14' 0"	14' 0"	14' O*	14' Qa	14' 0"	14' O*	14' 0"	14' Q"		12' 11"		12' 11"	12' 11"	11, 8,	12' 11"	12' 11"		B GROUP A	"1" BXS (2)
14' 0"	T4. 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14. 0.	14' D"	14' 0"	14. 0"	14' 0"	14' 0"	14' 0"		13' 7"	13' 7"	13' 11"	13, 11,	11′ 8"		12' 11"		GROUP B	HRACE W

DOUGLAS FIR-LARCH

#3

STUD

STANDARD

SOUTHERN POR

STANDARD

BRACING GROUP SPECIES

AND

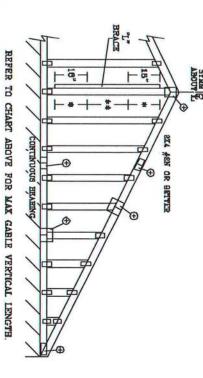
GRADES:

GROUP

A:

\$1 / #2 STANDARD

2 STANDARD



DIAGONAL BRACE OPTION:
VERTICAL LENGTH MAY BE
DOUBLED WICH DIAGONAL
HRACE IS USED. CONDUCT
IMACONAL BRACE TOR BAGS
AT EACH END. MAX WEB

GABLE TRUSS

TOTAL LENGTH IS 14".

DI TABLE ABOVE.

ZZ4 SP #ZK, DF-L #Z,
SPF #/#Z, OR BETTER
DIAGONAL BRACE;
SUNCLES OR DOUBLE
CUT (AS SECON) AT

UPPER END.

CONTRECT DIAGONAL AT THE .

IVE LOAD DEPLECTION CHITERIA IS L/240. CABLE TRUSS DETAIL NOTES:

SNIA AMETINGS

DOUGLAS FIR-LARCH

AT PAR BLE GROUP B:

PROVIDE UPILIT CONNECTIONS FUR 136 FLF OVER CONVENUOUS BEARING (6 PSF TC DEAD LOAD). DULITOWING MILK S, O, DAINGTON O'S 12, PLYMOOD OVERHAMG.

I" BRACING MUST BE A MINIMUM OF BOX OF WEB ATIACE EACH "L" BRACE WITH 104 NAILS AT 8" O.C. BYOR (1) "L" BRACE, SPACE NAILS AT 8" O.C. IN 18" END ZONES AND 4" O.C. BETWEEN ZONES. BRACE NAILS AT 3" O.C. IN 18" END ZONES AND 6" O.C. BETWEEN ZONES.

MEMBER LENGTH.

SS DESIGN FOR	REFER TO COMMON TRUS
7XX.C	CHEATER THAN 11' A.
2004	GREATER THAN 4' D', BUT
IX4 OR BX3	TESS THAN 4' 0°
NO SPLICE	ARMINCAT TRACIH
E SIZES	GABLE VERTICAL PLATE

-			j.		WILLIAM STORY	
		Jun 11, 2008	REVIEWED By julius lee at 12:00 pm, Jun 11, 2008		STATE OF STA	***************************************
1 4	TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SYMPPING, INSTALLING AND FORE TO SESS 1-432 (BULLING COMPIDENT SAFETY INFORMATION), PUBLISHED BY TPY (TRUSS) FUTE, 783 J'DIKFYMED OR, JULIE 200, MADISON, VI. 357759 AND VITA (VOID) TRUSS COUNCIL 6-300 BUTCHYGAE LIN, MADISON, VI. 357759 AND VITA (VOID) TRUSS COUNCIL 6-300 BUTCHYGAE LIN, MADISON, VI. 357759 AND VITA (TO PROPERLY ATTACHED TO COUNCIL CHOICE STALL HAVE A PROPERLY ATTACHED CEILING PAMELS AND BOTTOM CHOICE SHALL HAVE A PROPERLY ATTACHED CEILING	ming care in Farrianda, imie ming corporni safty inform fi, suite eq, moissa, vi. 37139 maison, vi. 37139 for sitely fi moison, vi. 37139 for sitely fi intro smill have a proporty at		HARONS. HARONS. HEROTICA FARENCE FAREN	NO. 4869	111111111
21	REFER TO CHART ABOVE FO	<u></u>	5	£	CONNECT DIAGONAL AT	

					~
No: 34869 STATE OF FLORIDA			DELEVA BEYCH, EL 22444-8161	S. ENGINEERS P	JULIUS LEE'S
MAX.	MAX.				
MAX. SPACING 24.0"	MAX. TOT. LD. 60 PSF				
ING	Ē				
22	60				
.o.	PSF				
		-ENG	DRWG	DATE	REF

-ENG	DRWG	DATE	REF
	DRWG MIEK SID GABLE 15 E HI	11/26/03	ASCE7-02-GAB13015

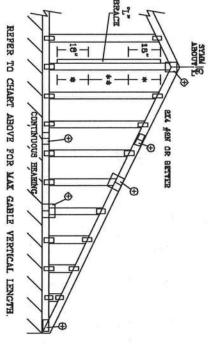
ASCE 7-02: 130 MPH WIND SPEED, 30 MEAN HEIGHT, ENCLOSED, 11 1.00, EXPOSURE 0

CING GROUP SPECIES

AND GRADES:

GROUP A:

		1	M	A	X		0	i	\I	3]	L	E		V	E	R	Γ	Ί	C	A	L		L	E	N	10	[1	H	
		1	2	93		0).	3.			1	6	33		0	.(2	4	53		0	.(C		SPACING	CARI
		L.F.	1	<u>V.</u>)	TIL	ij	777	クロゴ			1	7.7	j	TIL	L T	ひてら	STI	12.0		1	() T)	TIT	L L	מלי	בובים	SPACING SPECIES	CABLE VERTICAL
	STANDARD	STUD	**	#22	41	STANDARD	STUD	*3	\$1 / #B	STANDARD	STUD	† 3	#23	41	STANDARD	STUD	#8		STANDARD	STUD	13	#23	14	STANDARD	STUD	#8	2# / IF	GRADE	BRACE
23	4' 0"	4. US	4. 22	4' 4"	4 5	3' 11."	3' 11"	3' 11"		3' 8"		3' 8'	3' 11"	4. 0.	3' 7"	3' 7"	3' 7"	3' 8"		3' 3"	3' 3'	3' 6"	3' 6"		3' 1"	3' 1"	ຜູ	BRACES	Z C
	3.0	6' 4'	8 6	6' 11"	6' 11°	5' 4"	B 13		6' 11"	4' 9"		5 7	8' 4"	8 4	4 8	5' 6"	S. S.		3' 10"	4' 8"	4 6	5' 6"	5' 8"	3' 8"	4' 6"	4' 5"	5 6	GROUP A	(1) 134 %
	5, 9,	6' 4"	6, 2,	7' 6"	7' 8"	5' 4"	6. 3.	8, 3,	7. 2.	4' 9"	5, 8,	6. 7.	8' 10"		4' B"	6′ 5″	5' 5"	6' 6"	3' 10"	4' 6"	4' 6"	5' 11"	5' 11"	3′ 9"	4' 5"	4' 5"	6′ 8"	GROUP B	"L" BRACE .
0.00	7' 3"	8' 3"	8, 3,	8' 3"	8 3 4	7' 1"	8 ² 3 ¹¹	8.3	8' 3"	6' 3"	7' 3"	7' 4"	7º 8º	7' 8"	6, 5,	7' 2"	7 2"	7' 6"	6, 1,	5' 11"	6, 0,	6, 8,	6, 8,	6, 0,		6' 10"	8′ 6″	GROUP A	(1) 2X4 "L"
STATES AND ASSESSED.	7' 3"	8' 6"	8,	B' 11"	B' 11°	7, 1,	B 3°		8' 6'		7' 3°	7' 4"	8' 1"		6. 2.	7' 2"	7' 2"	7' 8"	5 1	5' 11"	6. 0.	7' 0"	7' 0"	5' 0"	6' 10"	5' 10"	6' 9"	GROUP B	L" BRACE .
	8.8	9' 10"	9' 10"	9' 10"	8, 10,	8, 8,		8, 10,	9' 10"	-	8' 11"	8. 11.	8' 11"	B, 11,		8' 11"	8' 11"	8. 11.	6' 11"	7' 10"	7' 10"	7' 10"	-61	6, 9,	7' 10"	7' 10"	7' 10'	GROUP A	(2) 2X4 "L"
	8, 8,	10′ 4″	10' 4"	10' 7"	10' 7"	9, 8,	9' 10"	9' 10"	10. 1.	8' 5"	9' 5"	8, 9,	g, 4,	- 1	8' 3"	B' 11"	8' 11"	9. X	e, 11,	8'0"	8′ 1"	8, 2,	8, 2,	g, 9.	7' 10"	7' 10"	8′ 0"	GROUP B	BRACE **
	11' 4"	12' 11"	100	12' 11'	12' 11"	11' 1"	18' 10"	12' 11"	12' 11"		11' 4"	11. 2.	11' 9"	11, 8,	9. 7"	11' 1"	11' 2"	11. 9.	B' 0"	8, 3,	9' 4"	10′ 3″	10' 3"	7' 10"	9' 1"	8' 1°	10' 3"	GROUP A	(1) 2X0 T.
	11' 4	13, 1,	18' 3"	13' 11"	13' 11"	11' 1"		12' 11"		8, 8,	11' 4"	11' 6"	12' B"	12' 8"	8. 4.	11, 1,"	11' 2"	12, 1,	8' 0"	8, 3,	9 4"	11, 1,	11, 1,	7' 10"	9′ 1"	9, 1,	10′ 7″	GROUP B	L" BRACE .
	14, 0,	14' O"	14' 0"	14' 0"	14' Q*	14' O*	14' 0"	14' 0°	14. 0.	13' 3"	14' Q°	14. Q.	14' 0"	14' 0"	18. 11.	14' 0"	14' 0"	14' O"	10' 10"	12' 3"	12, 3,	12' 3"	12' 3°	10' 7"		12' 3"	12, 3,	GROUP A GROUP	(2) ZXB "L" BRACE
	14' 0"	14. 0.	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	14' 0"	13' 3"	14' 0"	14. 0.	14' 0"	14' 0"	12. 11.	14' 0°	14' 0"	14' 0"	10' 10"	12' 6"	12, 8,	19' 2"	13' 2"	10' 7"	12, 3,	12' 3"	12' 7"	GROUP B	BRACE -
CARRY RING GILLORIS TOWN		CONTINUING BEARING 16	PIEGOTIE THE THE CONTROL OF	LIVE LOAD DEPLECTION CR	Charles Inches	CABIE TRIES			188	15	SOUTHINGY PINE		71 R	- MEDI	OKO O	Caoii			STANDARD	3	DOUGLAS FIR-LARCH	1	STOD STOD	NEW CHANGE OF IT	OKOU	TIONS.	BRACING GROUP SPE		



DIAGONAL BEACE OFTON:
YERTICAL LENGTE MAY BE
DOUBLED WHEN DIAGONAL
BRACE IS USED, CONNECT
HACONAL BEACE TOR 880 \$

CABLE TEUSS

TOTAL LENGTH IS 14". AT RACH IND.

HAX WEB

IN TABLE ABOVE.

ZX4 SP OR
DIT-L #2 OH
BETTER DIAGONAL
HRACE, SINGLE
OR DOTTEL
CUT (AS SMOWN)
AT UPPER END

THE THEORY OF THE PARTY OF THE

DAG DE	CAHLE
PLECTION	TRUSS
CRATTERIA	DETAI
13 1/240.	L NOTES:

GROUP B:

SOUTHERN PINE

#3

STUD

STANDARD

STANDARD

AT PARE

PLYWOOD OVERHAMG. DUTLODADES WITH E' O' OVIRBANG, OR 12" TEMUDUS BEARING (6 PSF TC DEAD LOAD).

ATTACE EACH 'L' ERACE WITH 104 NAIS.

FOR (1) 'L' ERACE; SPACE WAILS AF 8" O.C.

FOR (2) 'L' ERACE; SPACE WAILS AF 8" O.C.

EFFEREN ZONES

FOR (2) 'L' ERACES; SFACE WAILS AF 3" O.C.

IN 18" END ZONES AND 6" O.C. ELTHEREN ZONES T" BRACING MUST BE A MINIMUM OF BOX OF WEB HIDNEY CENCIH

SS DESIGN FOR	PEAK, SPLICE, AND HEEL!
2.5X4	GREATER THAN 11' 6"
2014	GREATER THAN 4' D', BUT
TX4 DR BX3	IPSS THAN 4' 0°
ND SPILOT	VEHINCAL LENGIN
E SIZES	GABLE VERTICAL PLATE

WARROUGH TRACESTS REQUEE EXTREME CARE IN FAREGATING, HANDLING, SEPPING, DISTALDIG AND BECKNE, SEPTEM TO SEXT. SHEET AND			CW SH	ACM ACM ACM ACM ACM ACM ACM ACM ACM ACM
EERS P.A.	By Julius lee at 12:00 pm, Jun 11, 2008	REVIEWED	INSTITUTE, 389 3'9NEPRO JR., SUTTE 289, MIXIZAN, ME 53719) MISH YITAK MEDI TRUSS COMPOLI RUKA, 6300 ENDERBUSE LH, MINICON LY 53719) TRE XMETY PARCTICES PROPERLY MITACHED TUKAL PANELS AND BRITCH CHORD SHALL HAVE A PROPERLY ATTACHED RUGOD COLLING.	ONCIA TRUSSES REGURE EXTREME CARE IN FARRICATING, HANDLING, SAUPPING, INSTALING AND G. REPER TO RICKLE-19-3 GUILLING CHAPTRENT SAFETY (HTURNATING), PUBLISHED BY TPI CIRLUSS
MAX. TOT. LD. 60 I	No: 34869 STATE OF ILURIDA		1456 SW 445 AVENUE DVIBAY BEACH, FL. 35444-2161	JULIUS LEE'S cons. engineers P.A.
TOT. LD. 60 I	NAX.	K		
ID. 60 I	220	AX.		
60 I	SPAC	AX. TOT.		
O I V	SPACING	AX. TOT. LD.		

DATE REF

11/26/09 ASCE7-02-CAB13030

-ENG

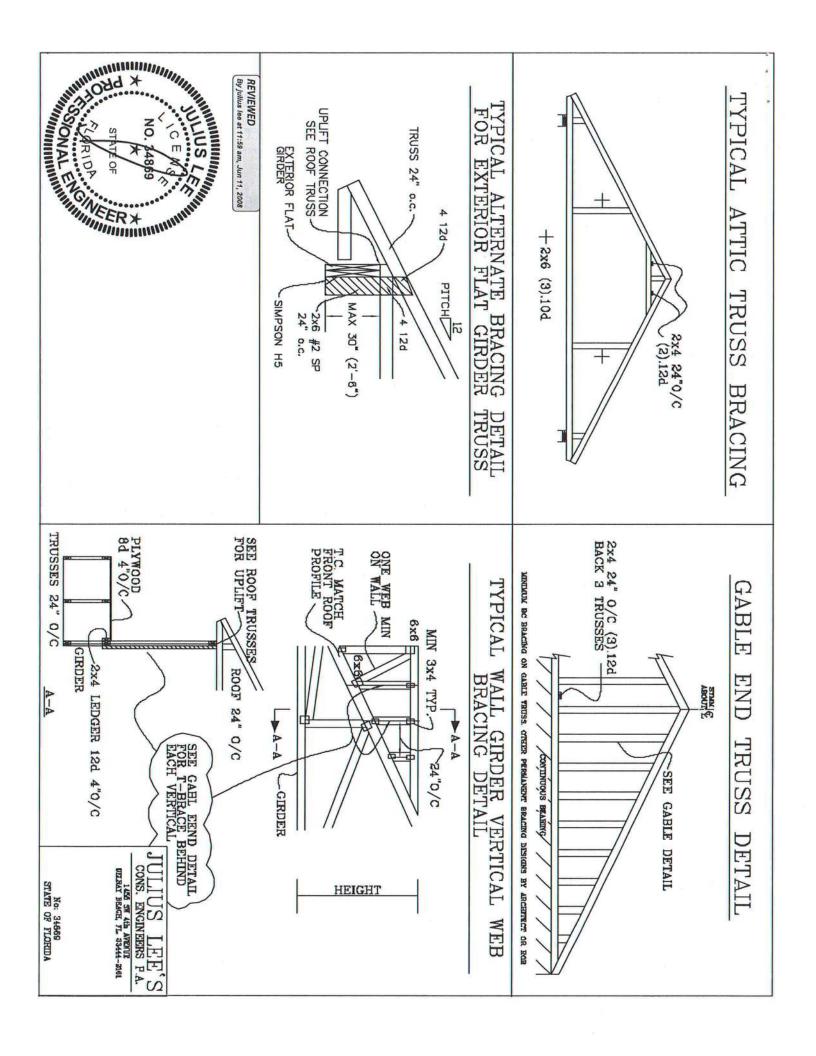
DWG MIEK STD GARLE SO' E HT

NO. 4889

NO. 4889

NO. 4889

REPUBLICAN



BOT CHORD 2X4 2X4 *** 222 BETTER BETTER BETTER

PIGGYBACK

TAN

SPANS

쳠

7

34

88

52

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. TRUSS TOP CHORD WITH 1.5X3 PLATE. ATTACH VERTICAL WEBS TO

ATTACH PURLINS TO TOP OF FLAT TOP CHORD. IF PIGCYBACK IS SOLID LUMBER OR THE BOTTOM CHORD IS OMITTED, PURLINS MAY BE APPLIED BENEATH THE TOP CHORD OF SUPPORTING TRUSS

REFER TO ENCINEER'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 BLDG,
LOCATED ANYWHERE IN ROOF, 1 MI FROM COAST
CAT L EXP C, WIND TO DL=5 PSF, WIND BC DL=5 PSF 110 MPH WIND, 30' MEAN HOT, FEG ENCLOSED BLDG, LOCATED ANYWHERE IN ROOF WIND TO DL-5 PSF, WIND BC DL-5 PSF

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 HC DL=6 PSF

Ħ

5X6

533

PXG

8 **5**84

OR SX6 TRULOX AT 4' HOTATED VERTICALLY

20,

O

1.5X8

1,5X4

1.5X4

1.5X4

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4XB

9XG

8X9

9XG

284 30

2.5X4

2.6X4

3XE

FRONT FACE (E,*) PLATES MAY BE OFFSET FROM BACK FACE PLATES AS LONG AS BOTH FACES ARE SPACED 4' OC MAX. LOCATION IS ACCEPTABLE XAX 12 20' FLAT TOP CHORD MAX SPAN T N B B WAX SIZE OF ZXIZ H Ш -TYP. D-SPLICE C n a

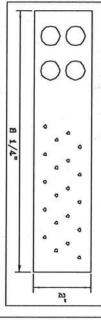
OKIM	FACE
ATION.	PER FAC
NEW PAR	PLATES PER I
5	
UKA	(4) N
MING TOO	N STIN
HON TE	EACH
THULL	NAILS.
•	38

ZHOA

10' TO 14' MEMBE	7'9" TO 10' MEMBE	0' TO 7'9" NO BR	WEB LENGTH	
" BRACE. SAME GRADE, SPECIES AS WEB IR, OR HETTER, AND 80% LENGTH OF WEH IR. ATTACH WITH 164 NAILS AT 4° OC.	" BRACE. SAME GRADE, SPECIES AS WEB IR, OR HETTER, AND 80% LENGTH OF WEB IR. ATTACH WITH 8d NAILS AT 4" OC.	ACING	REQUIRED BRACING	

* PIGGYBACK SPECIAL PLATE

ATTACH TEETH TO THE PIGGYBACK AT THE TIME OF PARKICATION. ATTACH TO SUPPORTING TRUSS BTILL (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.



THIS DRAWING REPLACES DRAWINGS 634,018 834,017 & 847,045

PIGGYBACK WITH 3X6 TRULOX OR ALPINE PIGGYBACK SPECIAL PLATE

SPACING 47 PSF 1.15 DUR. 55 PSF AT 1.33 DUR. FAC. 25 MAX LOADING 50 PSF DUR. FAC AT FAC DATE REF DRWG MITEK STD IL 09/12/07 PIGGYBACK PIGG

NO. 44869

NO. 44869 JULIUS LEE'S CONS. ENGINEERS P.A. 1972-1115C TI BEWSE AVERED No: 34869 STATE OF FLORIDA

VALLEY TRUSS DETAIL

TOP CHORD CHORD 2X4 SP #2 OR SPF #1/ 2X3(*) OR 2X4 SP #2N 2X4 SP #3 OR BETTER. #2 OR SPF #1/#2 OR BETTER.
OR RX4 SP #2N OR SPF #1/#2 OR 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, BUILDING, EXP. C. RESIDENTIAL, WIND TO DL=5 FBC 2004 110 MPH, ASCE 7-02 110 MPH WIND ASCE 7-02 130 MPH WIND. 15' MEAN HEIGHT, 16d HOX (0.135" X 3.5") NAILS TOE-NAILED FOR OR (3) 16d ENCLOSED FOR

UNIESS 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 TRUSS INSTALLATION

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

*** NOTE THAT THE PURLIN SPACING FOR BRACING THE TOP CHORD OF THE TRUSS BENEATH THE VALLEY IS MEASURED ALONG THE SLOPE OF THE TOP CHORD. ++ LARGER SPANS MAY BE BUILT AS LONG AS THE VERTICAL HEIGHT DOES

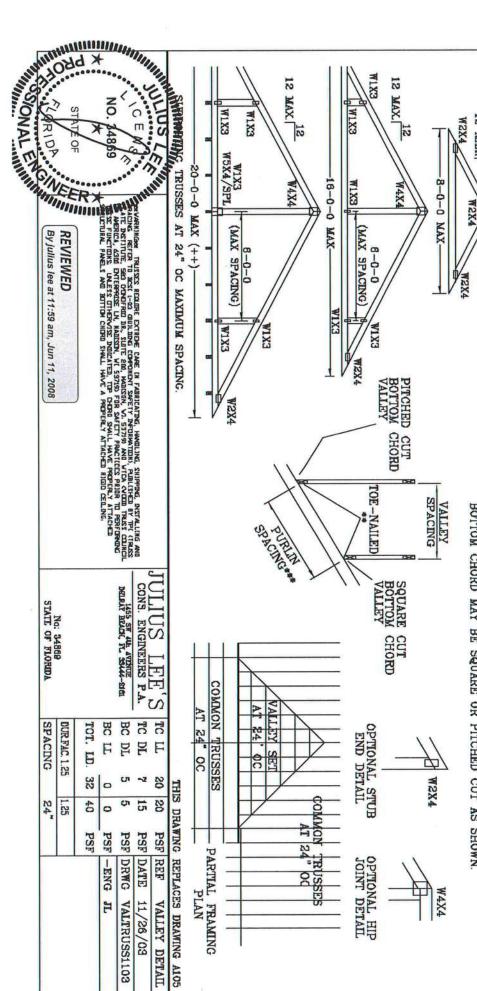
LARGER AS REQ'D

4-0-0 MAX

12 NAX.

NOT EXCEED 12'0".

BOTTOM CHORD MAY BE SQUARE OR PITCHED CUT AS SHOWN



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

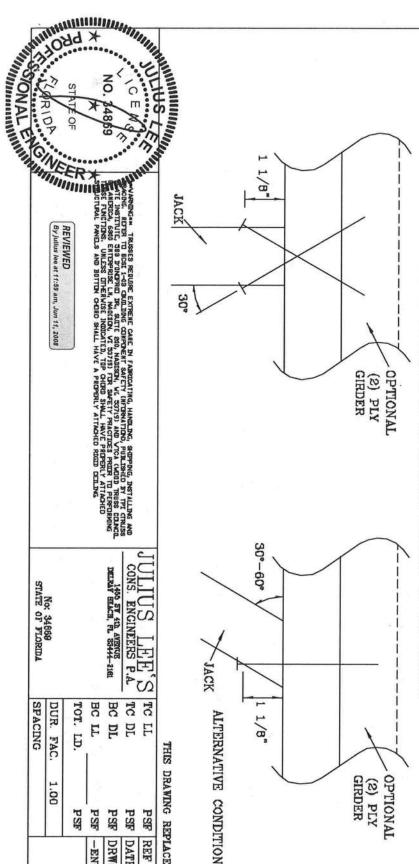
THE NUMBER OF TOE-NAILS TO BE USED IN A SPECIFIC APPLICATION IS DEPENDENT UPON PROPERTIES FOR THE CHORD SIZE, LUMBER SPECIES, AND NAIL TYPE, PROPER CONSTRUCTION PRACTICES AS WELL AS GOOD JUDGEMENT SHOULD DETERMINE THE NUMBER OF NAILS TO BE USED.

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

5 493# 638# 452# 585# 390# 507# 384	4	ယ	N	TOE-NAILS	NUMBER OF
493#	394#	#962	187#	1 PLY	SOUTHE
639#	511#	383#	256#	2 PLIES 1 PLY	SOUTHERN PINE
452#	361#	271#	181#	1 PLY	DOUGLAS
585#	468#	351#	234#	2 PLIES	DOUGLAS FIR-LARCH
390#	312#	234#	156#	1 PLY	
507#	406#	304#	203#	2 PLIES	HEM-FIR
384#	307#	230#	154#	1 PLY	SPRUCE
496#	397#	298#	189#	2 PLIES	SPRUCE PINE FIR

VALORIO MAI DE MOLLIFLIEU DY AFFROTRIALE DURALION OF LOAD FACTOR



ARONGHEM TRUSSES REGUIRE EXTREME CAME DE FARRICATING, HANDLING, SEPPONG, DISTALLING AND COME. RED'ER TO BOST 1-43 GUILLING CHEPORENT SAFETY (BETRANTICO), PUBLISHED BY TPI CITRUSS ITE INSTITUTE, 383 D'NOLFRIG DE, SLITE GOD, NADISSAY, MC 35719 AND VICA KADOD TRUSS COLVEIL, MECICA, 6840 ENTEPRISE LM, MARIGON, MT 35719) FER SAFETY PRACTICES PRIZE TO PERFORMANG SE TANCITORS, BULLESS GITERAVES INDICATED, TIPO CAUGO SHALL HAVE PROPERTY ATTACHED SETUNG.

JULIUS LEE'S DELRAY SEACH, FL SOUTH-2161

BC DL BC LL

PSF

-ENG

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DRWG DATE REF

CNTONAIL 103 09/12/07 TOE-NAIL

TC DL TC

PSF PSF

PSF

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THIS DRAWING REPLACES DRAWING 784040

REVIEWED

By Julius lee at 11:59 am, Jun 11, 2008

No: 34889 STATE OF FLORIDA

SPACING DUR. FAC. TOT. LD.

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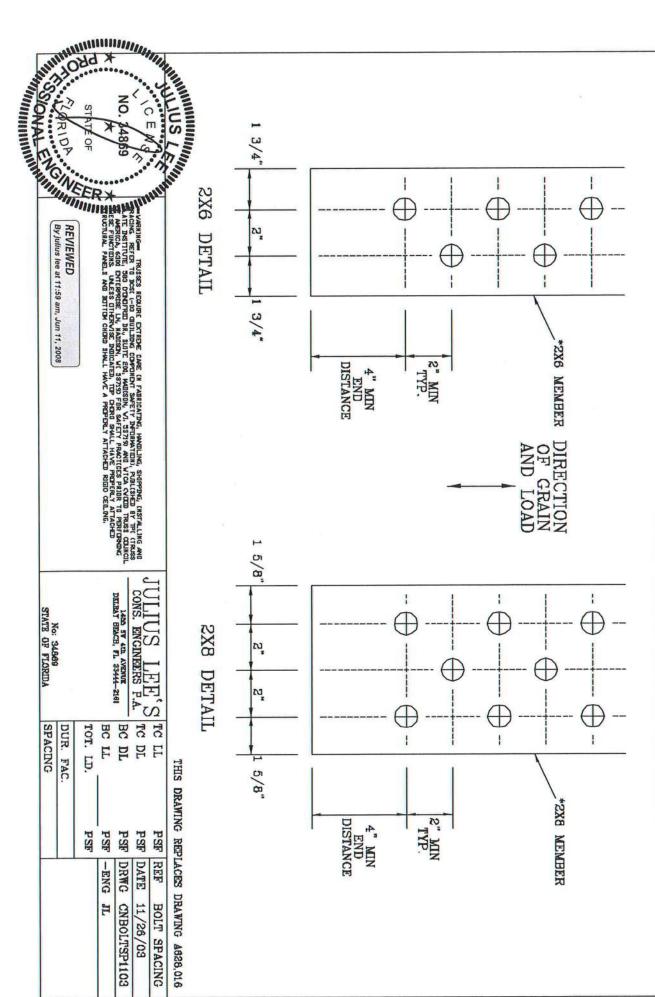
DIAMETER BOLT SPACING FOR LOAD APPLIED PARALLEL TO GRAIN

* 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. QUANTITIES AS NOTED ON SEALED DESIGN MUST BE IN ONE OF THE PAITERNS SHOWN BELOW. APPLIED

WASHERS REQUIRED UNDER BOLT HEAD AND NUT



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

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DELEGY BEACH, PL 33444-2161

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No: 34869 STATE OF FLORIDA

SPACING DUR. FAC.

TRULOX CONNECTION DETAI

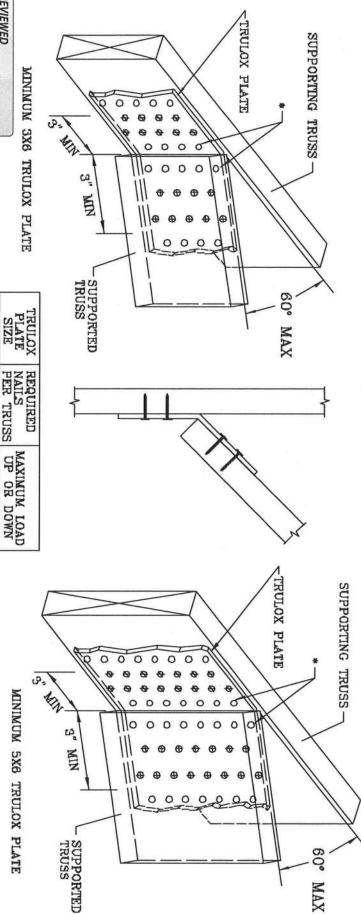
11 GAUGE (0.120" X 1.375") NAILS REQUIRED FOR TRULOX PLATE ATTACHMENT. FILL ROWS COMPLETELY WHERE SHOWN (+).

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.

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



NO. 34869

ONGAM TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HAVILLING, BHIPPING, INSTALLING AND
ORDERS TO 3231 1-03 GRUILLING CORPORDT SAFETY DEGRACIONO, PRILISSED BY TPY CIRASS
ONSTITUTE, SHE DYNORTHE INS. SUITE BY, MARISSEN, UT. 33759 AND VICA VALIDI TRUSS COUNTING.
SIZIO, 4300 ENTERPRISE LM, MARISSIN, UT. 53759 FOR SAFETY PRACTICES PRICE TO REFERRANCE
FUNCTIONS. UNESS DIFFERVISE, ROILINGEN, TIP CARDO SAILL HAVE PROPERLY ATTICHED
TURNL PANELS AND SOTTON CHORD SWALL HAVE A PROPERLY ATTICHED CELLURG

REVIEWED

3X6 **6X8**

15 9

#088 350#

CONS. ENGINEERS P.A. DETA-PRINCE TO NOVE AND SECTION OF SECTION O

No: 34869 STATE OF FLORIDA

SOIT

LEE'S 1,154,844

THIS DRAWING REPLACES DRAWINGS 1,158,989 1,158,989/R

MINIMUM 5X6 TRULOX PLATE

1,152,217 1,152,017 1,159,154 & 1,151,524

DATE REF

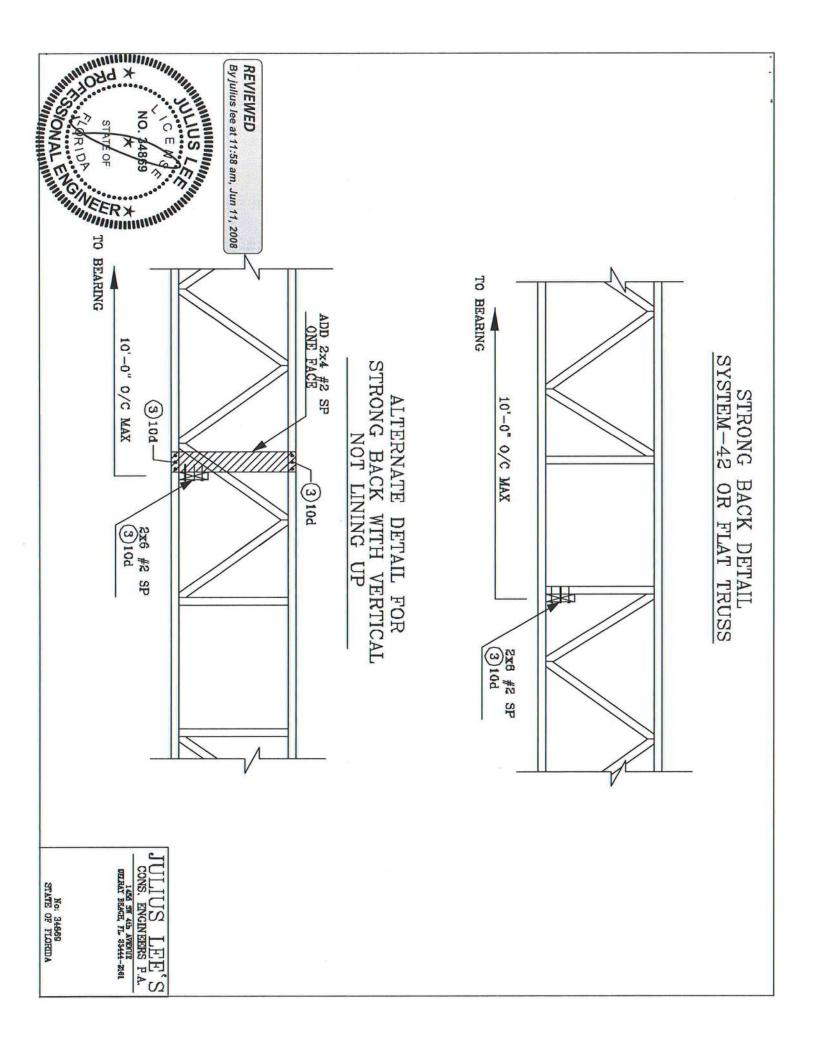
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CNTRULOX1103 11/26/03 TRULOX

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PER TRUSS

MAXIMUM LOAD UP OR DOWN



MULTIPLE-MEMBER CONNECTIONS FOR SIDE-LOADED BEAMS

Maximum Uniform Load Applied to Either Outside Member (PLF)

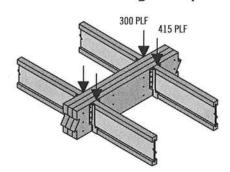
Connector Type			Connector Pattern						
	Number of Rows	Connector On-Center Spacing	Assembly A 1 2" 1 2" 1 134"	Assembly B	Assembly C	Assembly D	Assembly E 1 2" 31/2"	Assembly F	
			3½" 2-ply	51/4" 3-ply	51/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply	
10d (0.128" x 3")	2	12"	370	280	280	245			
Nail ⁽¹⁾	3	12"	555	415	415	370			
1/84207		24"	505	380	520	465	860	340	
1/2" A307 Through Bolts(2)(4)	2	19.2"	635	475	655	580	1,075	425	
iniough buits		16"	760	570	785	695	1,290	505	
		24"	680	510	510	455		RELIGIOUS BOOK NEED	
SDS 1/4" x 31/2"(4)	2	19.2"	850	640	640	565			
		16"	1,020	765	765	680			
		24"				455	465	455	
SDS 1/4" x 6"(3)(4)	2	19.2"			HOLY EXAMINATION	565	580	565	
		16"				680	695	680	
	2	24"	480	360	360	320			
USP WS35 (4)		19.2"	600	450	450	400			
		16"	715	540	540	480			
	2	24"				350	525	350	
USP WS6 (3)(4)		19.2"				440	660	440	
		16"				525	790	525	
234#		24"	635	475	475	425			
33/6" TrussLok(4)	2	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	
63/4"		24"				445	620	445	
TrussLok(4)	2	19.2"				555	770	555	
II USSLUK.		16"				665	925	665	

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

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 13% 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 (lbs)

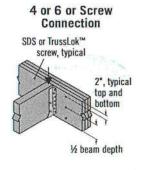
CHARLES THE		Connector Pattern							
		Assembly A	Assembly B	Assembly C	Assembly D	Assembly E	Assembly F		
	Number of Connectors	2" 	- -	134" 31/2"	1½" 3½" 1¾"	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2' 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		3½" 2-ply	51/4" 3-ply	51/4" 2-ply	7" 3-ply	7" 2-ply	7" 4-ply		
	6	1,110	835	835	740				
10d (0.128" x 3")	12	2,225	1,670	1,670	1,485	more as a second			
Nail	18	3,335	2,505	2,505	2,225				
	24	4,450	3,335	3,335	2,965				
SDS Screws 1/4" x 31/2" or WS35 1/4" x 6" or WS6(1) 33/6" or 5" TrussLok™	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)		
	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)		

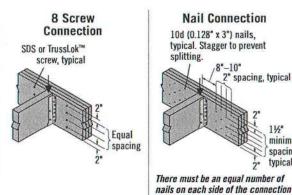
(1) 6" SDS or WS screws can be used with Parallam® PSL and Microllam® LVL, but are not recommended for TimberStrand® LSL.

See General Notes on page 38

- (2) 6" long screws required.
- (3) 5" long screws required.
- (4) 31/2" and 31/4" long screws must be installed on both sides.

Connections





Nail Connection 10d (0.128" x 3") nails, typical. Stagger to prevent splitting. spacing, typical minimum spacing, There must be an equal number of

Point Load Design Example



First, verify that a 3-ply 134" 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 134" assembly, eight 33/8" TrussLok™ screws are good for 3,815 lbs with a face mount hanger.

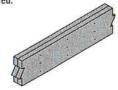
MULTIPLE-MEMBER CONNECTIONS FOR TOP-LOADED BEAMS

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 33/8" 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.

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 1/2 of the required connector spacing.
- Load must be applied evenly across entire beam width. Otherwise, use connections for side-loaded
- 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"

