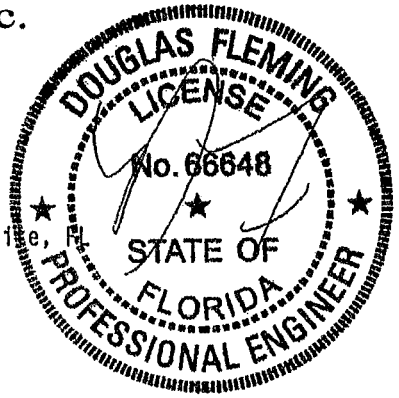
ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
 Document ID:1V8X215-Z0414143604



08/14/2014

Truss Fabricator	W.B. Howland
Job Identification	8740-/FT. WHITE ASSISTED LIV FA /S&S CONSTRUCTION -- Ft. White, FL
Truss Count	29
Model Code	Florida Building Code 2010
Truss Criteria	FBC2010Com/TPI-2007(STD)
Engineering Software	Alpine Software,Version 13.02.
Structural Engineer of Record	The identity of the structural EOR did not exist as of
Address	the seal date per section 61G15-31.003(5a) of the FAC
Minimum Design Loads	Roof - 40.0 PSF @ 1.25 Duration
	Floor - N/A
	Wind - 130 MPH ASCE 7-10 -Closed

Notes

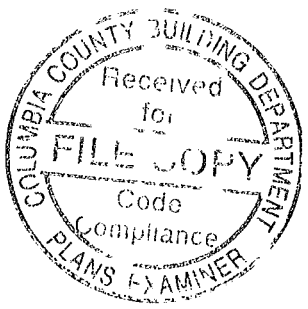
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown on attached drawings; the drawing number is preceded by: HCUSR215

Douglas Fleming
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: BRCLBSUB-14015EC1-GBLLETIN-PB16010-

#	Ref	Description	Drawing#	Date
1	18382	A01	14226118	08/14/14
2	18383	A02	14226108	08/14/14
3	18384	A03	14226109	08/14/14
4	18385	A04	14226110	08/14/14
5	18386	A05	14226111	08/14/14
6	18387	A06	14226112	08/14/14
7	18388	A07	14226113	08/14/14
8	18389	A08	14226114	08/14/14
9	18390	A09	14226115	08/14/14
10	18391	A10	14226116	08/14/14
11	18392	A11	14226117	08/14/14
12	18393	A12	14226090	08/14/14
13	18394	A13	14226091	08/14/14
14	18395	A14	14226092	08/14/14
15	18396	A15	14226093	08/14/14
16	18397	A16	14226094	08/14/14
17	18398	A17	14226095	08/14/14
18	18399	B01	14226096	08/14/14
19	18400	B02	14226097	08/14/14
20	18401	PB1	14226098	08/14/14
21	18402	PB2	14226099	08/14/14
22	18403	J01	14226100	08/14/14
23	18404	J02	14226101	08/14/14
24	18405	J03	14226102	08/14/14
25	18406	J04	14226103	08/14/14
26	18407	J05	14226104	08/14/14
27	18408	J08	14226105	08/14/14
28	18409	J09	14226106	08/14/14
29	18410	J10	14226107	08/14/14



(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A01)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Special loads
----- (Lumber Dur.Fac.=1.25 / Plate Dur Fac.=1 25)
TC- From 62 plf at 0 00 to 62 plf at 9 00
TC From 31 plf at 9 00 to 31 plf at 51 38
TC From 62 plf at 51 38 to 62 plf at 60 38
BC From 20 plf at 0 00 to 20 plf at 9 03
BC- From 10 plf at 9.03 to 10 plf at 51 34
BC- From 20 plf at 51 34 to 20 plf at 60 38
TC- 245.00 lb Conc Load at 9 03
TC- 108.94 lb Conc Load at 11 06,13.06,15 06,17.06 19 06,21 06,23.06,25.06,27.06,29.06,30 19,31 31,33 31 35 31,37.31,39.31,41 31,43 31,45.31,47.31,49 31
TC- 243.80 lb Conc Load at 51 34
BC- 292.90 lb Conc. Load at 9 03
BC- 156.94 lb Conc. Load at 11.06,13 06,15 06,17 06 19.06,21.06,23 06,25.06,27 06
BC- -86 82 lb Conc Load at 29.06,30 19,31 31,33 31 35.31,37.31,39 31,41 31,43 31,45 31,47 31,49 31
BC -378 85 lb Conc Load at 51.34

The overall height of this truss excluding overhang is 4-3 3.

2 COMPLETE TRUSSES REQUIRED

Nail Schedule 0 131"x3", min nails
Top Chord. 1 Row @12 00" o c
Bot Chord: 1 Row @12 00" o c
Webs : 1 Row @ 4" o c
Use equal spacing between rows and stagger nails in each row to avoid splitting

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

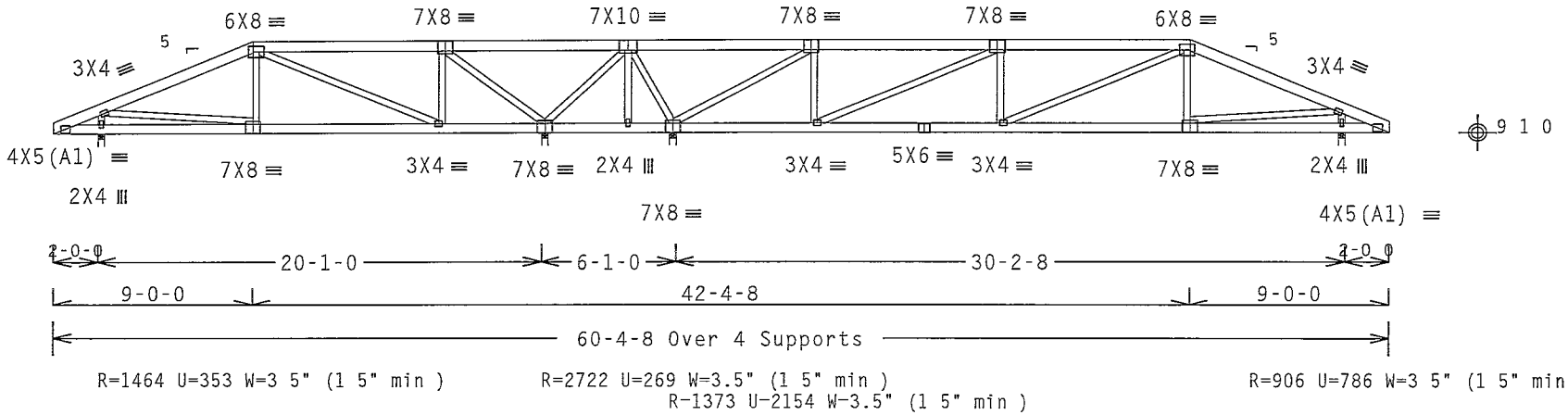
Wind loads and reactions based on MWFRS

Left and right cantilevers are exposed to wind

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50

WARNING Furnish a copy of this DWG to the installation contractor. Failure to follow provisions of BCSI in handling and installation of trusses can result in serious injuries Do not permit inexperienced and uninstructed people to install trusses See "WARNING" note below BCSI recommends retaining a registered professional engineer for the design of temporary bracing



Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 0809.13 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating handling shipping installing and bracing Refer to follow the latest edition of BCSI (Building Component Safety Information by TPI and WTCA) for safety practices prior to performing these functions Installers shall provide temporary bracing per BCSI. Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent lateral restraint of webs shall have bracing installed per BCSI sections B3 B7 or B10 as applicable

ITW Building Components Group Inc (ITWBCG) shall not be responsible for any deviation from this design any failure to build the truss in conformance with ANSI/TPI 1 or for handling shipping installation bracing of trusses Apply plates to each face of truss and position as shown above and on the Joint Details unless noted otherwise Refer to drawings 160A Z for standard plate positions A seal on this drawing or cover page listing this drawing indicates acceptance of professional engineering responsibility solely for the design shown The suitability and use of this design for any structure is the responsibility of the Building Designer per ANSI/TPI 1 Sec 2 For more information see This job's general notes page ITW BCG www itwbcg com TPI www tpinst org WTCA www sbcindustry com ICC www iccsafe org

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18382
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226118
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423219
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A02)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

The overall height of this truss excluding overhang is 5-1-3

MWFRS loads based on trusses located at least 7 50 ft from roof edge.

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 8 50 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5.0 psf GCpi(+/-)-0 18

Wind loads and reactions based on MWFRS with additional C&C member design

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

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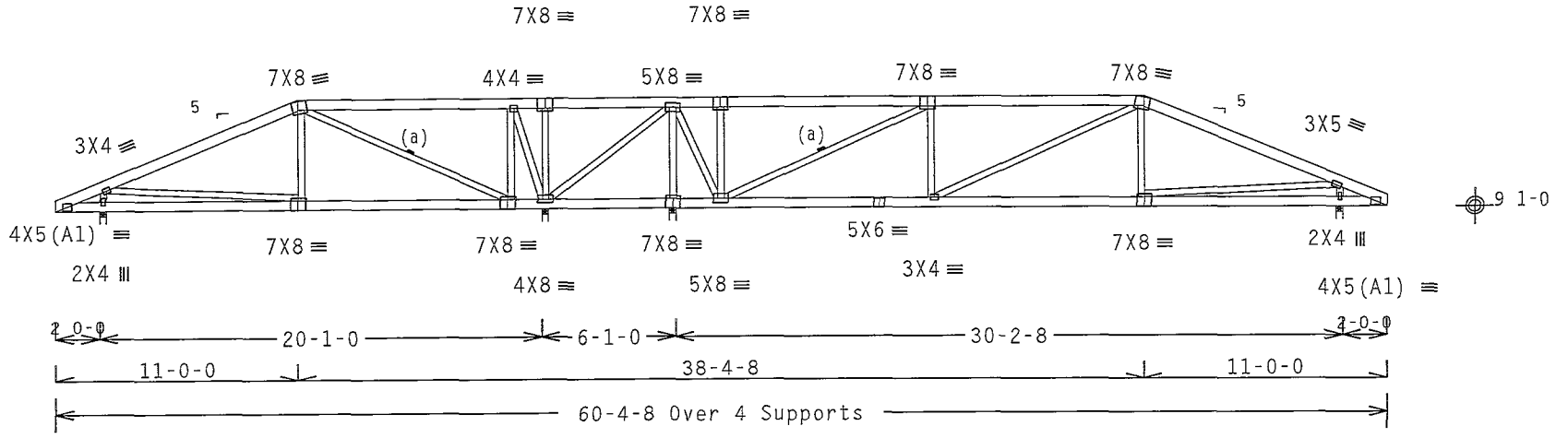

R=900 U=134 W=3.5" (1 5" min)
RL=123/-123

R=1718 U=307 W=3 5" (1 5" min)
R=1181 U=219 W=3.5" (1 5" min)

R=1299 U=220 W=3 5" (1 5" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 0809.13 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
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Orlando FL, 32837
FL COA #0 278

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TC LL	20.0 PSF	REF	R215-- 18383
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226108
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423228
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A03)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

The overall height of this truss excluding overhang is 5 11-3

MWFRS loads based on trusses located at least 7 50 ft. from roof edge.

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 8 50 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

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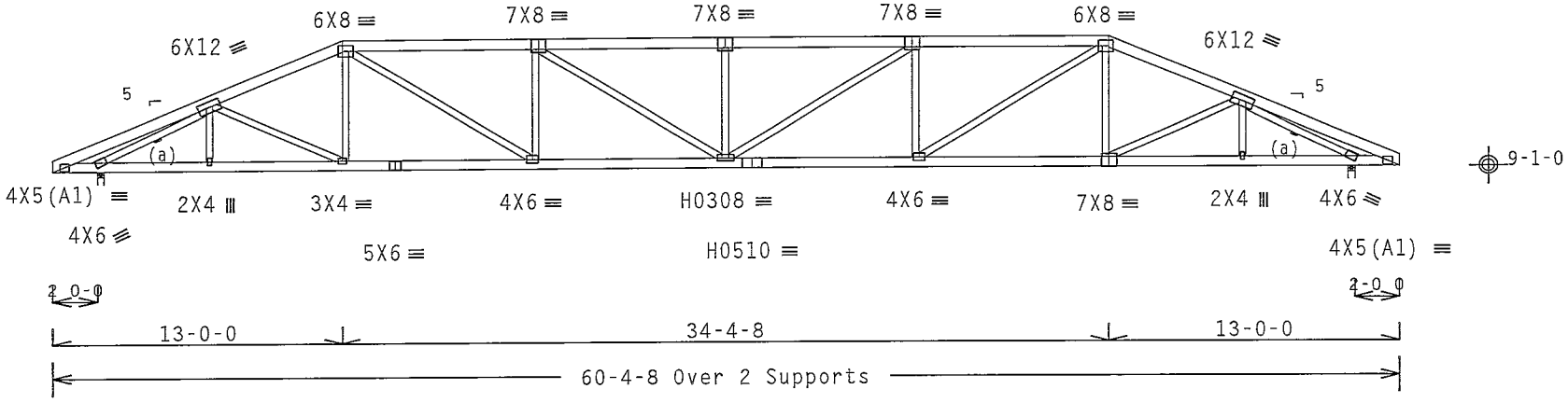

R=2467 U=438 W=3 5" (1 668" min.)
RL=146/ 146

R=2467 U=438 W=3 5" (1 668" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 13.02.05 to 13 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

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ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18384
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226109
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423231
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft. White, FL A04)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50

The overall height of this truss excluding overhang is 6-9-3

MWFRS loads based on trusses located at least 15 00 ft from roof edge

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 8 50 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design

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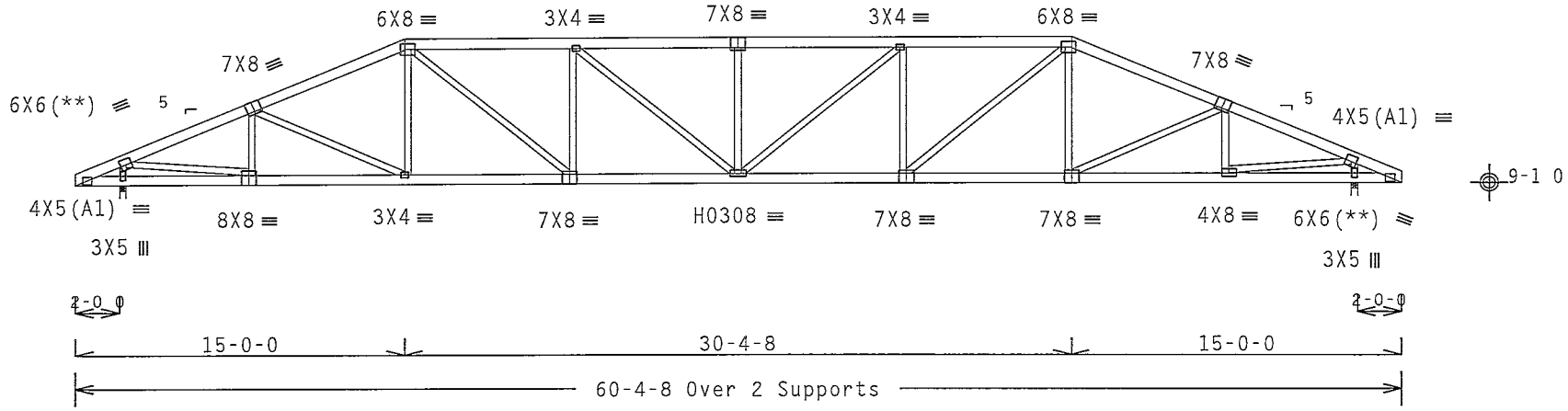

R=2467 U=53 W=3 5" (1 668" min)
RL=169/-169

R=2467 U=53 W=3 5" (1 668" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 13.02.05 13 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18385
TC DL	10.0 PSF	DATE	08/14/14
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BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423234
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A05)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

The overall height of this truss excluding overhang is 7-7-3

MWFRS loads based on trusses located at least 15 00 ft from roof edge

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)-0 18

Wind loads and reactions based on MWFRS with additional C&C member design

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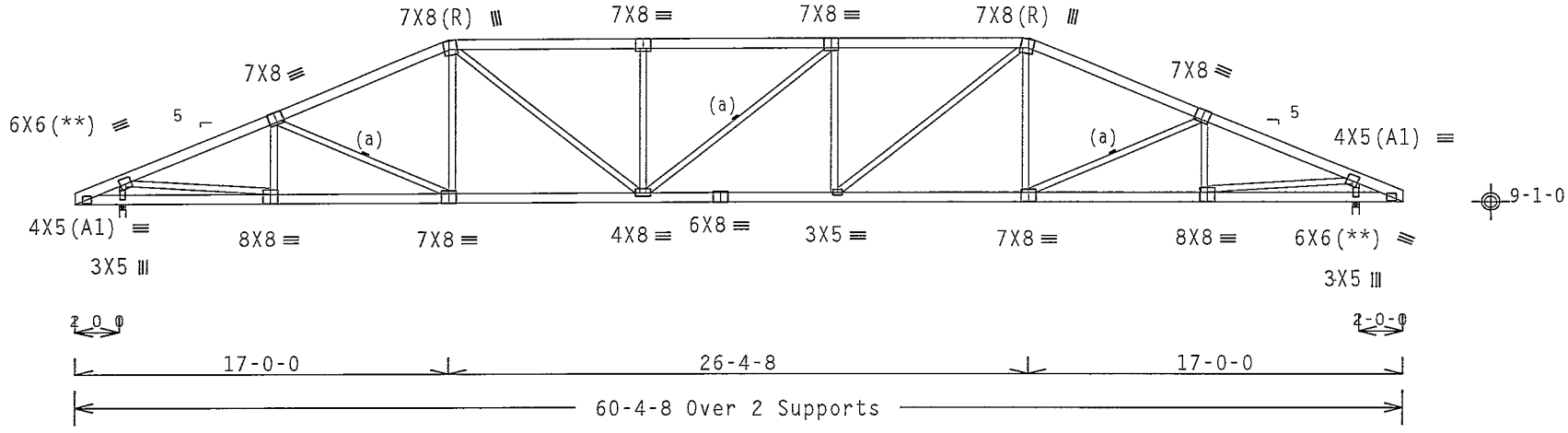

R=2467 U=51 W=3 5" (1.668" min)
RL=191/-191

R=2467 U=51 W=3 5" (1 668" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 12:13 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18386
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226111
BC LL	0.0 PSF		HC-ENG GA/DF
TOT.LD.	40.0 PSF	SEQN-	423237
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A06)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

The overall height of this truss excluding overhang is 8-5-3

MWFRS loads based on trusses located at least 15 00 ft. from roof edge.

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 00 ft mean hgt, ASCE 7 10, CLOSED bldg, not located within 17.00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5.0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

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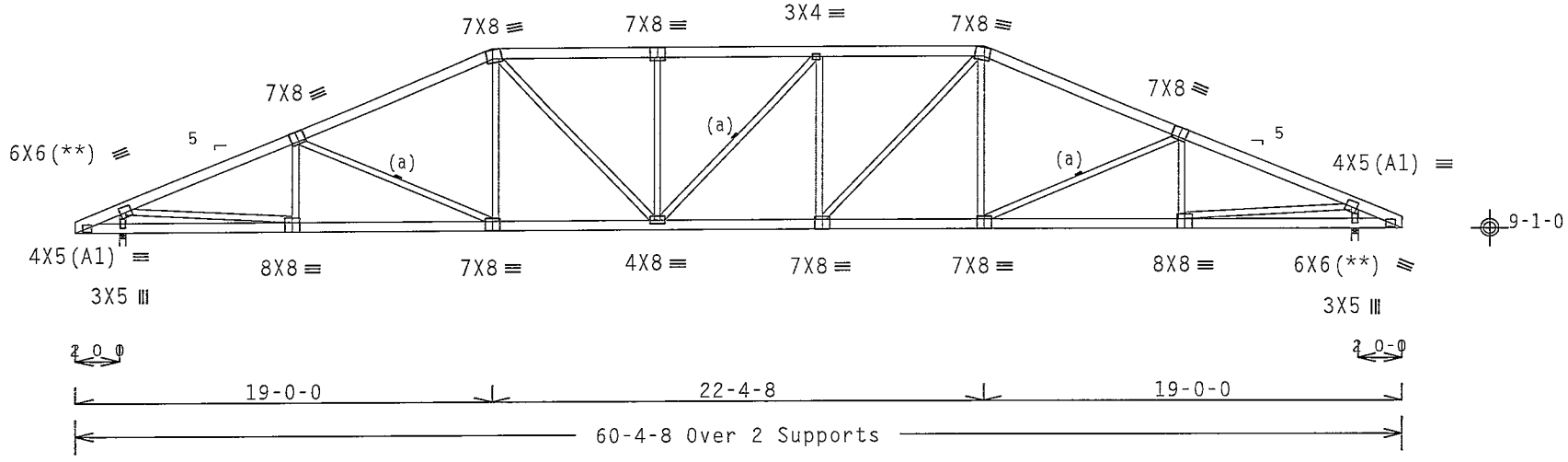

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 [illegible] 13 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
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Orlando FL, 32837
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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18387
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226112
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423240
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A07)

Top chord 2x6 SP M 31
Bot chord 2x6 SP M 31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 9-3-3

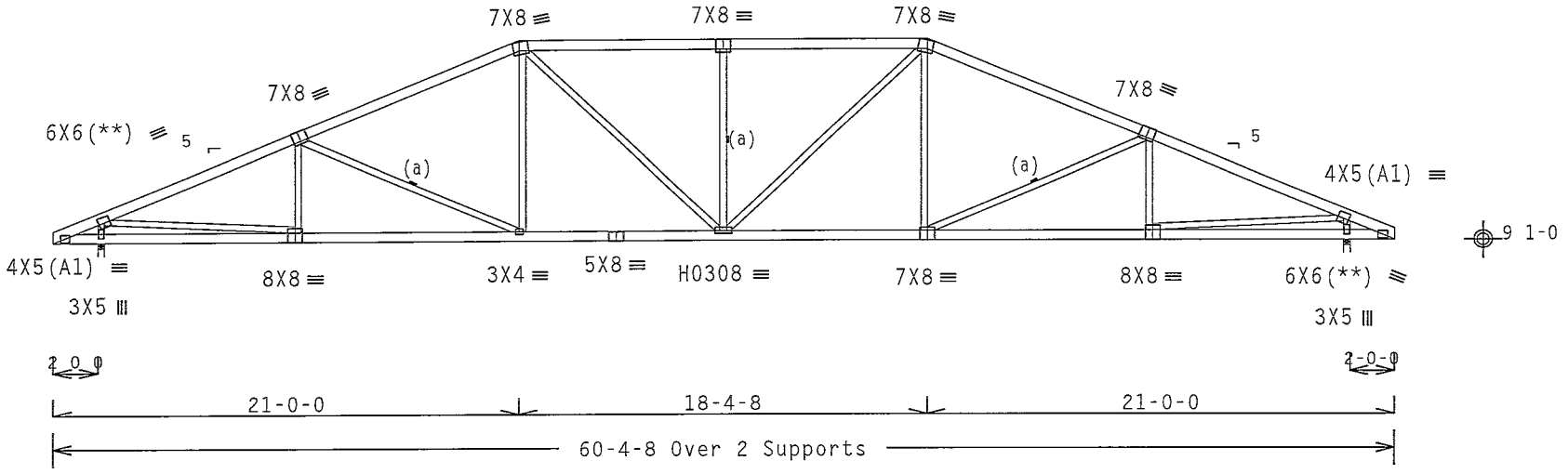
MWFRS loads based on trusses located at least 15 00 ft from roof edge

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements.

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17.00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5.0 psf, wind BC DL=5 0 psf. GCpi(+/)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

WARNING Furnish a copy of this DWG to the installation contractor Failure to follow provisions of BCSI in handling and installation of trusses can result in serious injuries Do not permit inexperienced and uninstructed people to install trusses See "WARNING" note below BCSI recommends retaining a registered professional engineer for the design of temporary bracing



R=2467 U=48 W=3.5" (1.668" min)
RL=237/ 237

R=2467 U=48 W=3 5" (1 668" min.)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 13.02.05 12:20:13 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

Trusses require extreme care in fabricating handling shipping installing and bracing Refer to and follow the latest edition of BCSI (Building Component Safety Information by TPI and WTCA) for safety practices prior to performing these functions Installers shall provide temporary bracing per BCSI Unless noted otherwise top chord shall have properly attached structural sheathing and bottom chord shall have a properly attached rigid ceiling Locations shown for permanent ateral restraint of web shall have bracing installed per BCSI sections B3 B7 or B10 as applicable

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18388
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226113
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423243
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A08)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50.

The overall height of this truss excluding overhang is 10-1-3

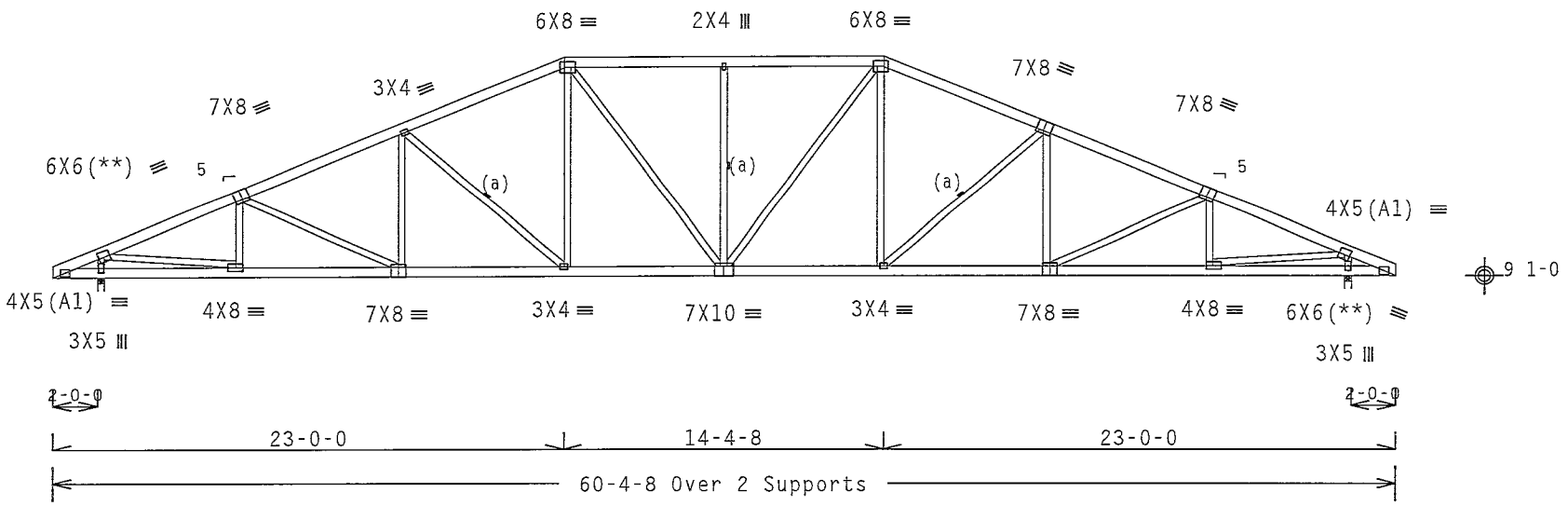
MWFRS loads based on trusses located at least 15.00 ft from roof edge

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements.

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

WARNING· Furnish a copy of this DWG to the installation contractor Failure to follow provisions of BCSI in handling and installation of trusses can result in serious injuries Do not permit inexperienced and uninstructed people to install trusses See "WARNING" note below BCSI recommends retaining a registered professional engineer for the design of temporary bracing



R=2467 U=46 W=3 5" (1 668" mın)
RL=259/-259

R=2467 U=46 W=3.5" (1 668" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0[illegible]2 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS E LEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18389
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226114
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423246
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A09)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

The overall height of this truss excluding overhang is 10 11-3

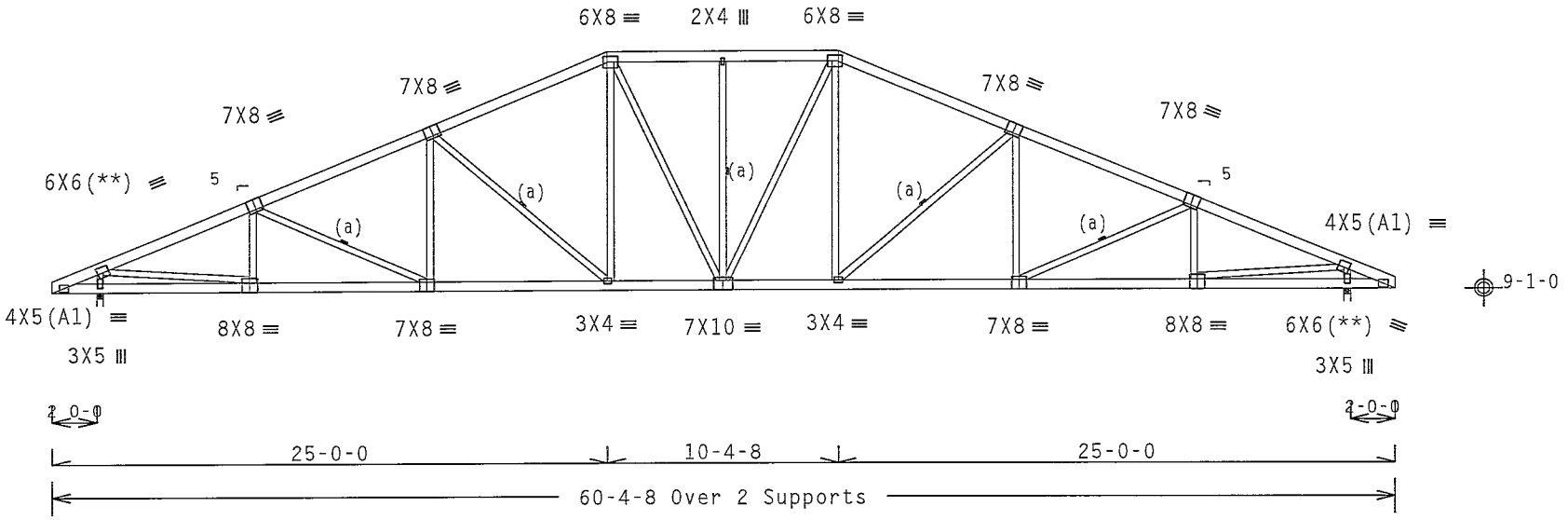
MWFRS loads based on trusses located at least 15 00 ft from roof edge

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

WARNING Furnish a copy of this DWG to the installation contractor. Failure to follow provisions of BCSI in handling and installation of trusses can result in serious injuries. Do not permit inexperienced and uninstructed people to install trusses See "WARNING" note below. BCSI recommends retaining a registered professional engineer for the design of temporary bracing



R=2467 U=45 W=3 5" (1.668" min)
RL=282/-282

R=2467 U-45 W=3 5" (1 668" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0 [illegible] QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18390
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226115
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423249
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A10)

Top chord 2x6 SP M 31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50.

The overall height of this truss excluding overhang is 11-9-3.

MWFRS loads based on trusses located at least 15.23 ft. from roof edge

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 23 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

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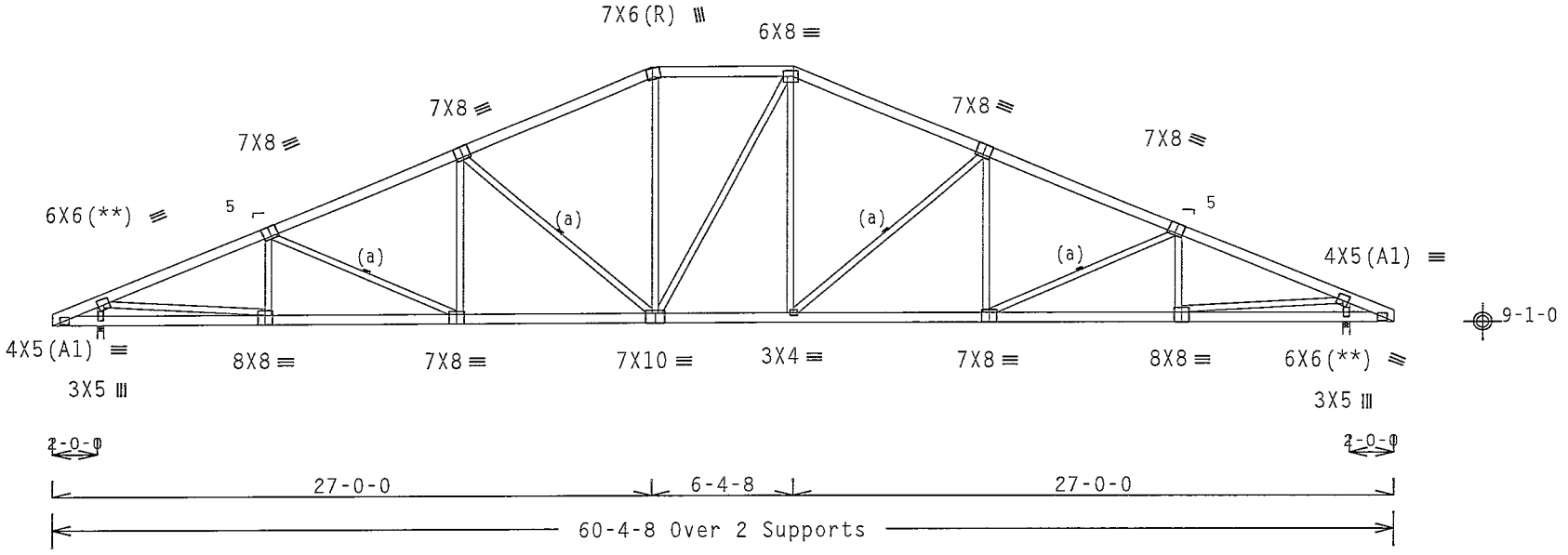

R=2467 U=56 W=3 5" (1 668" min)
RL=305/ 305

R=2467 U=56 W=3 5" (1 668" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0 0 1 2 0 - 0 2 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18391
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226116
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423252
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A11)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

The overall height of this truss excluding overhang is 11 9-3

MWFRS loads based on trusses located at least 15 22 ft. from roof edge

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 22 ft mean hgt, ASCE 7 10, CLOSED bldg, not located within 17.00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL-5 0 psf, wind BC DL-5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

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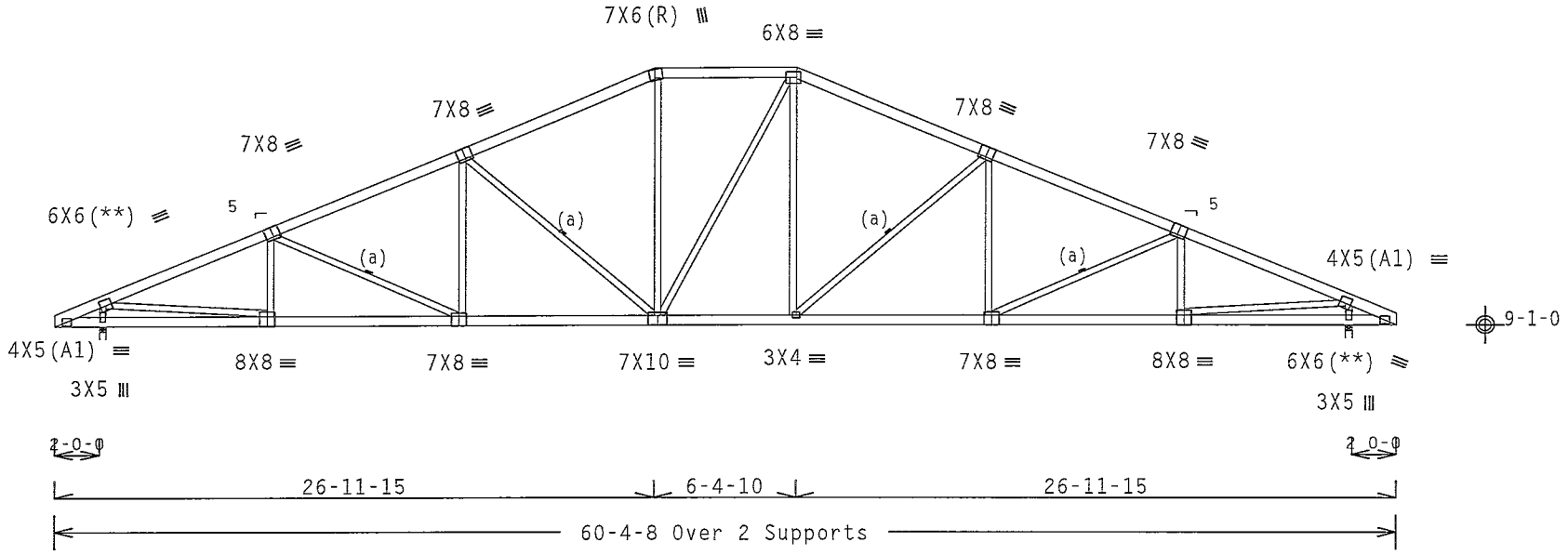

R=2467 U=56 W=3.5" (1.668" min)
RL=305/ 305

R=2467 U=56 W=3 5" (1 668" min.)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 0309 13 QTY:16 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18392
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226117
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423257
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT. WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A12)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M 31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

Calculated horizontal deflection is 0.10" due to live load and 0 16" due to dead load

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 11-9-3

MWFRS loads based on trusses located at least 30.45 ft from roof edge

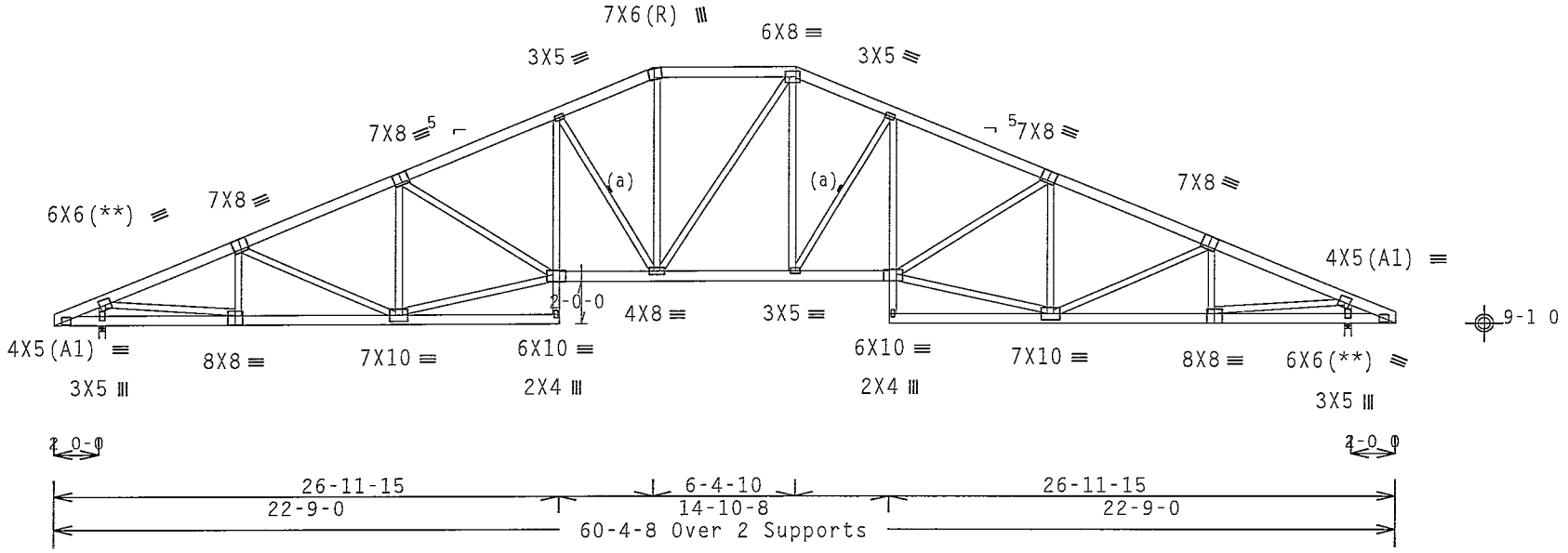
(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 22 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

WARNING: Furnish a copy of this DWG to the installation contractor. Failure to follow provisions of BCSI in handling and installation of trusses can result in serious injuries Do not permit inexperienced and uninstructed people to install trusses See "WARNING" note below. BCSI recommends retaining a registered professional engineer for the design of temporary bracing



R=2467 U=55 W-3 5" (1.668" min)
RL=305/-305

R=2467 U=55 W=3 5" (1 668" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 0209 13 QTY:12 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18393
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226090
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423259
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A13)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left cantilever is exposed to wind

(a) Continuous lateral restraint equally spaced on member

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

The overall height of this truss excluding overhang is 11 9-3.

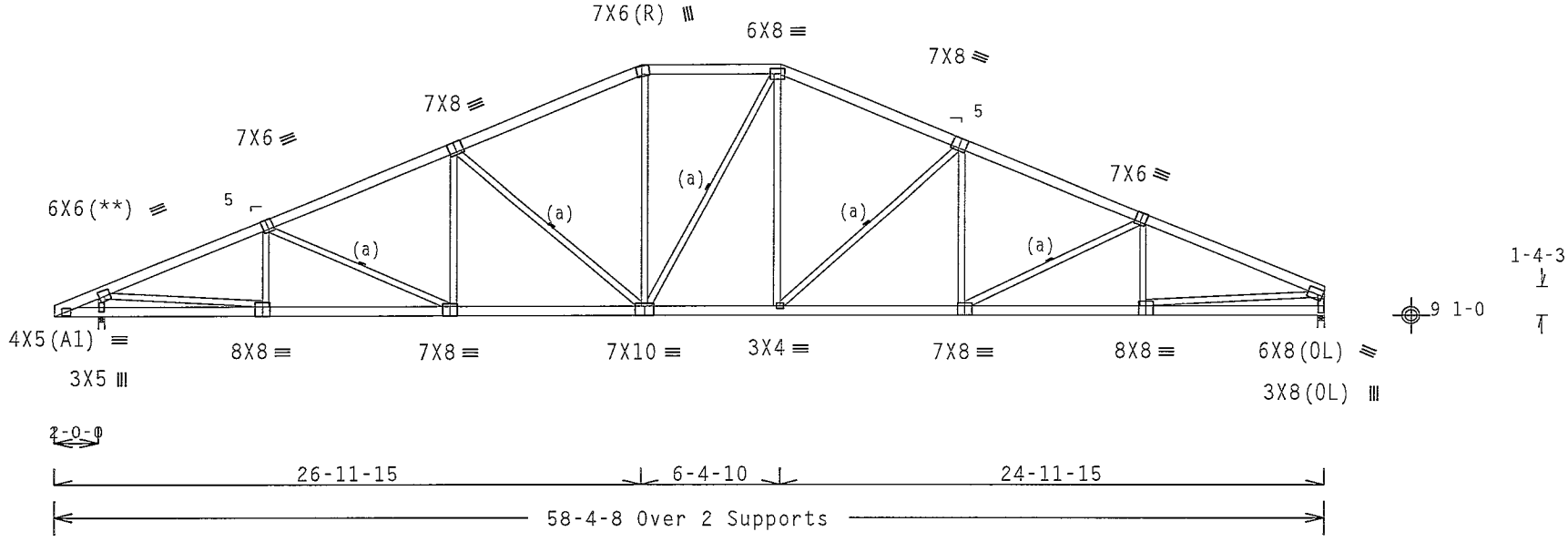
(**) 1 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 22 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

WARNING Furnish a copy of this DWG to the installation contractor Special care must be taken during handling, shipping and installation of trusses. See "WARNING" note below

MWFRS loads based on trusses located at least 30 45 ft. from roof edge



R=2475 U=57 W=3.5" (1.675" min)
RL=296/-287

R=2294 U=60 W=3 5" (1 9" min.)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05-12:06:13 QTY:2 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18394
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226091
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423268
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft. White, FL A14)

Top chord 2x6 SP M 31
Bot chord 2x6 SP M 31
Webs 2x4 SP M-31 W18 2x4 SP 2400f-2.0E

Left cantilever is exposed to wind

Calculated horizontal deflection is 0 13" due to live load and 0 21" due to dead load

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50.

The overall height of this truss excluding overhang is 11-9-3

MWFRS loads based on trusses located at least 30 45 ft from roof edge

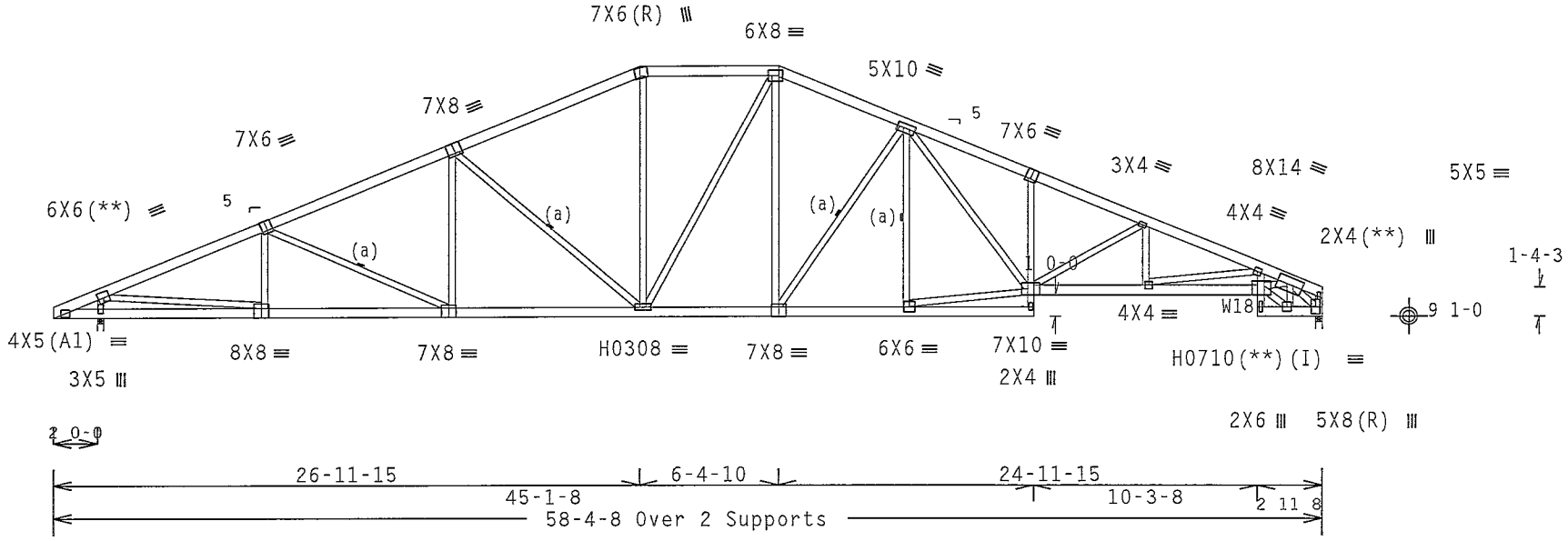
(**) 3 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 22 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13.00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

WARNING Furnish a copy of this DWG to the installation contractor Special care must be taken during handling, shipping and installation of trusses See "WARNING" note below



R=2475 U=57 W-3 5" (1.675" min)
RL=296/ 287

R=2294 U=58 W=3 5" (1.9" min.)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 13.02.05 Spacing 13 QTY:5 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
IMPORTANT FURNISH THIS DESIGN TO ALL CONTRACTORS INCLUDING INSTALLERS

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18395
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226092
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423275
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A15)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left and right cantilevers are exposed to wind

Calculated horizontal deflection is 0.13" due to live load and 0 21" due to dead load.

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

The overall height of this truss excluding overhang is 11-9-3

MWFRS loads based on trusses located at least 30 45 ft from roof edge

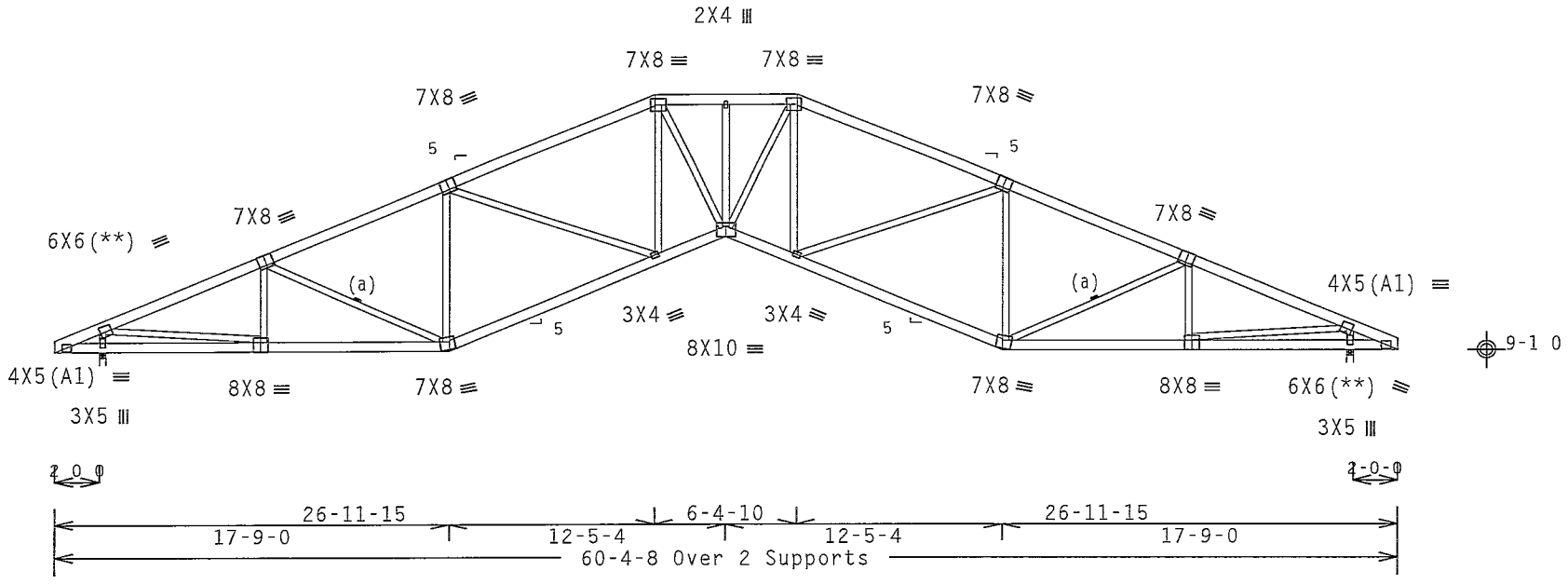
(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 22 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)-0 18

Wind loads and reactions based on MWFRS with additional C&C member design

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

WARNING· Furnish a copy of this DWG to the installation contractor. Failure to follow provisions of BCSI in handling and installation of trusses can result in serious injuries. Do not permit inexperienced and uninstructed people to install trusses See "WARNING" note below BCSI recommends retaining a registered professional engineer for the design of temporary bracing



R=2488 U=45 W=3.5" (1.685" min)
RL=305/ 305

R-2488 U=45 W=3 5" (1.685" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 0000 13 QTY:12 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18396
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226093
BC LL	0.0 PSF		HC-ENG GA/DF
TOT.LD.	40.0 PSF	SEQN-	423255
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft. White, FL A16)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Left cantilever is exposed to wind

Calculated horizontal deflection is 0.13" due to live load and 0 21" due to dead load

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

The overall height of this truss excluding overhang is 11-9-3

MWFRS loads based on trusses located at least 30 45 ft from roof edge

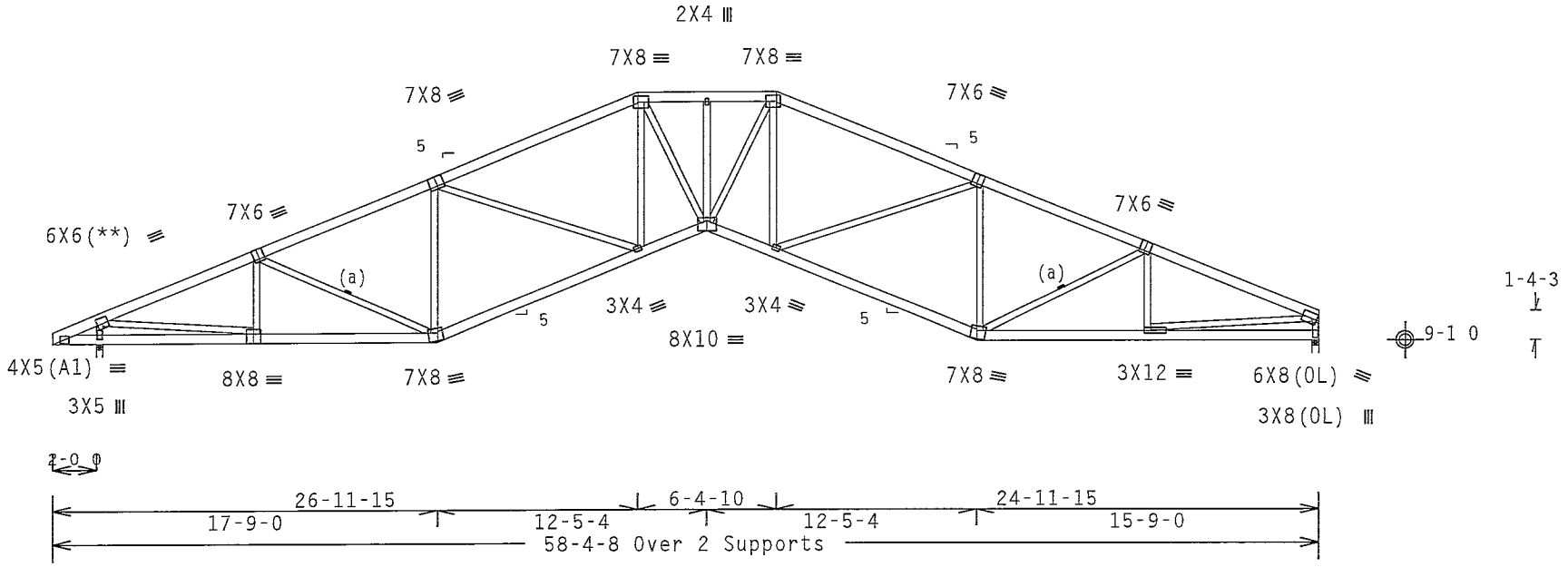
(**) 1 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 22 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 13 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design.

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

WARNING Furnish a copy of this DWG to the installation contractor Special care must be taken during handling, shipping and installation of trusses See "WARNING" note below



R=2495 U=46 W-3 5" (1 692" min)
RL-296/ 287

R=2315 U=49 W=3 5" (1 917" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 0000 13 QTY:7 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18397
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226094
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423262
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL A17)

Top chord 2x6 SP M-31
Bot chord 2x6 SP M 31
Webs 2x4 SP M-31 .W18 2x4 SP 2400f-2 0E

Left and right cantilevers are exposed to wind

Calculated horizontal deflection is 0 12" due to live load and 0 19" due to dead load.

(a) Continuous lateral restraint equally spaced on member

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

The overall height of this truss excluding overhang is 11-9-3

MWFRS loads based on trusses located at least 30 45 ft from roof edge

(**) 2 plate(s) require special positioning Refer to scaled plate plot details for special positioning requirements

130 mph wind, 15 22 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 17 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf. GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

In lieu of structural panels use purlins to brace all flat TC @ 24" OC

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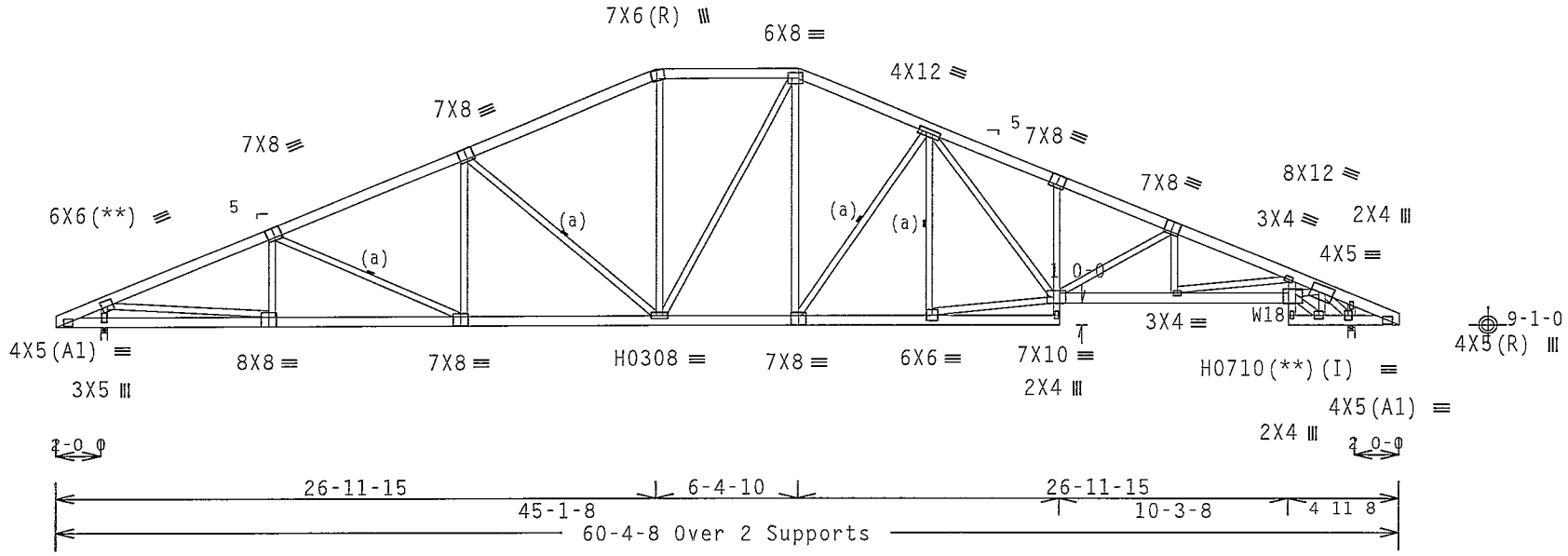

R=2461 U=56 W=3.5" (1 663" min)
RL=305/-305

R=2473 U=54 W=3 5" (1 674" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. 20 Gauge HS,Wave FT/RT=20%(0%)/10(0) 13.02.05 12:15:13 QTY.1 FL/-/1/-/-/R/- Scale =.125"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18398
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226095
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423283
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL B01)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Gable end supports 8" max rake overhang

See DWGS A14015ENC100212 & GBLLETIN0212 for gable wind bracing requirements

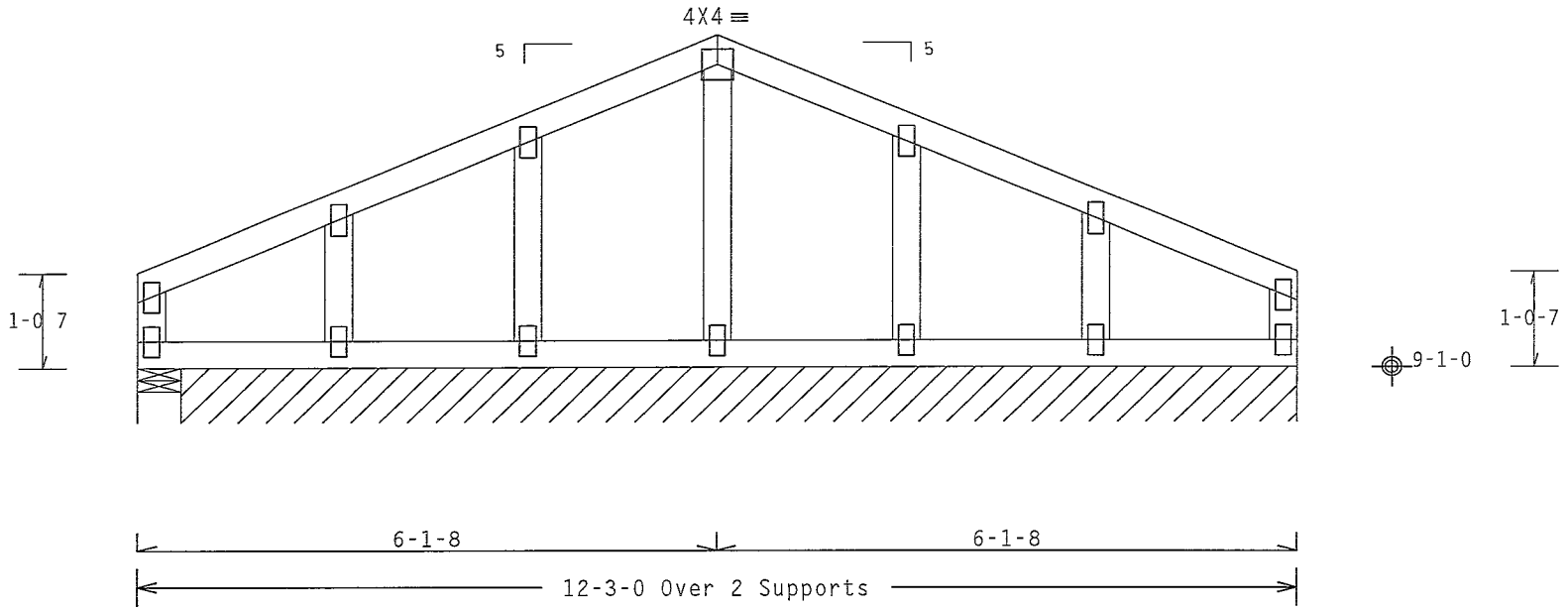
Fasten rated sheathing to one face of this frame

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1 50

The overall height of this truss excluding overhang is 3-7-1.



R=72 U=14 W=5.5" (1.5" min.)
R=79 RLL=57 U=54 PLF W=11 9 8

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0[illegible]3 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18399
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226096
BC LL	0.0 PSF		HC-ENG GA/DF
TOT.LD.	40.0 PSF	SEQN-	423209
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL B02)

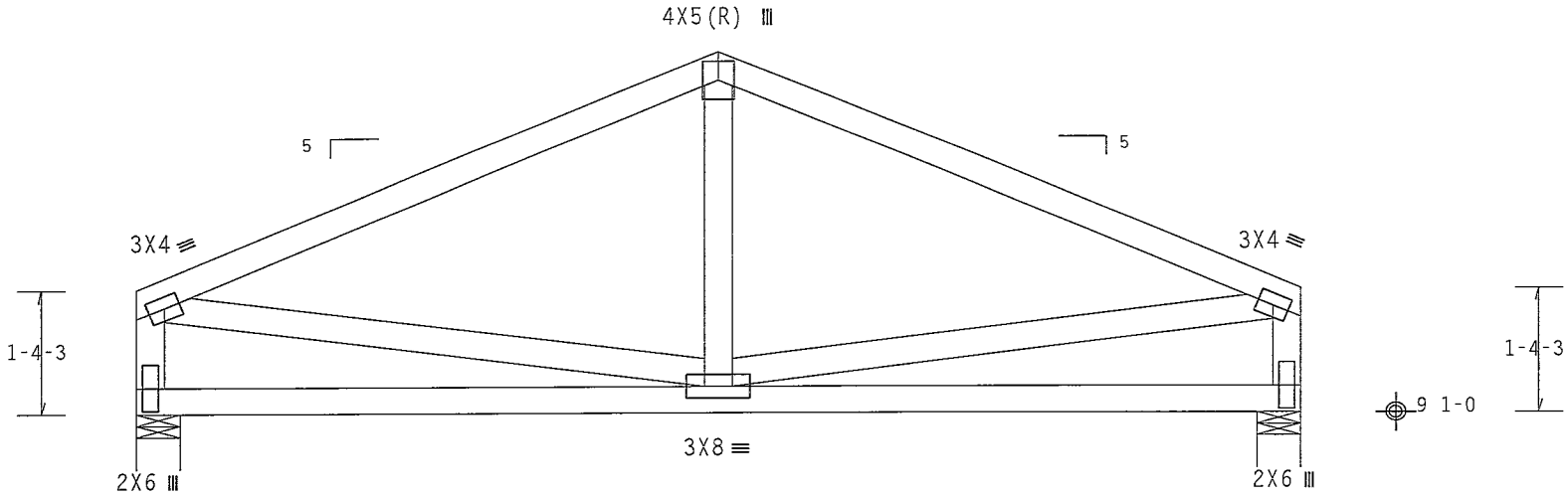
Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 3-10 13

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5.0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design.



R=500 U=88 W-5 5" (1 5" min)
RL=57/ 57

R-500 U=88 W-5 5" (1 5" min)

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0[illegible]13 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66848 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18400
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226097
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423205
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL PB1)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

130 mph wind, 21.28 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=2.0 psf. GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1 50

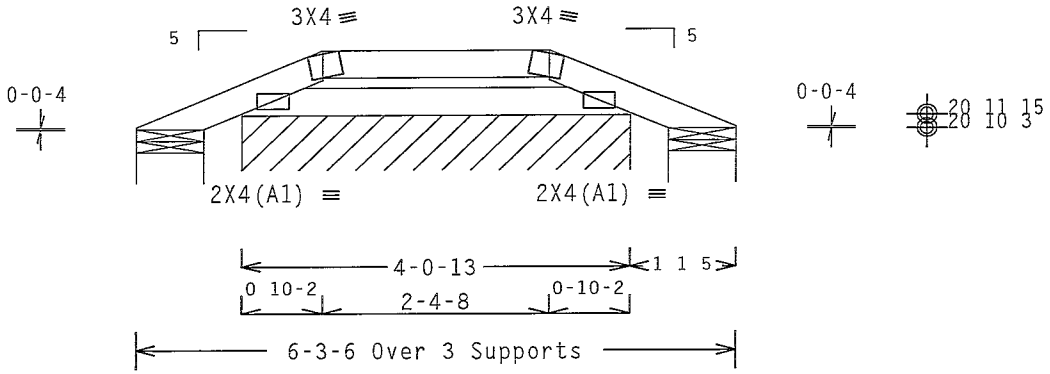
MWFRS loads based on trusses located at least 21 28 ft from roof edge

Refer to DWG PB160100212 for piggyback details

Special loads
----(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 62 plf at -1 11 to 62 plf at 0 85
TC- From 62 plf at 0 85 to 62 plf at 3 22
TC- From 62 plf at 3 22 to 62 plf at 5.18
BC- From 4 plf at -1 11 to 4 plf at 5 18

In lieu of structural panels or rigid ceiling use purlins to brace all flat TC @ 24" OC, all BC @ 24" OC

The overall height of this truss excluding overhang is 0-10-0



R=14 U=6 W=8 5" (1.5" min) R=14 U=8 W=8 5" (1 5" min)
R=84 PLF U=26 PLF W=4 0-13

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 21 13 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18401
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226098
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423260
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL PB2)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

130 mph wind, 21 52 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5.0 psf, wind BC DL=2 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

The overall height of this truss excluding overhang is 1-3-15

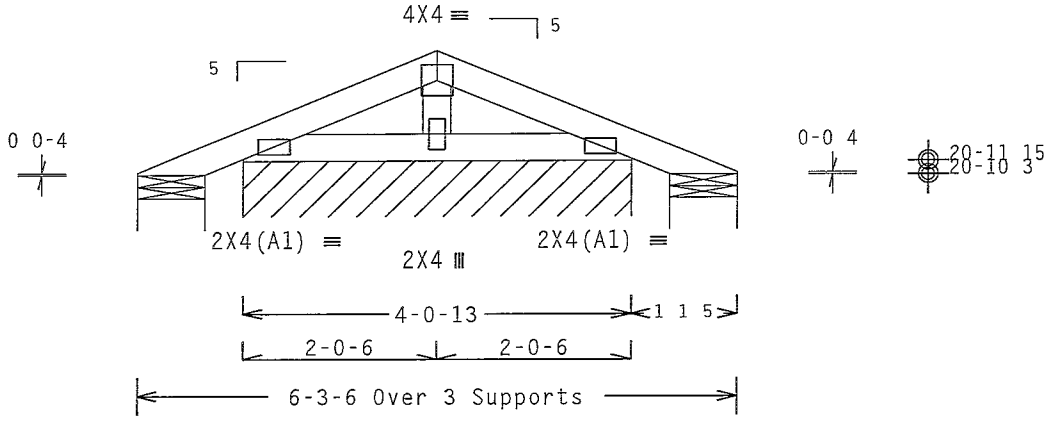
Refer to DWG PB160100212 for piggyback details.

Special loads
-- (Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 62 plf at -1 11 to 62 plf at 2 03
TC- From 62 plf at 2.03 to 62 plf at 5.18
BC- From 4 plf at -1 11 to 4 plf at 5 18

In lieu of rigid ceiling use purlins to brace BC @ 24" OC

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

MWFRS loads based on trusses located at least 21 52 ft from roof edge.



R=18 U=9 W=8 5" (1 5" min) R=18 U-6 W=8 5" (1 5" min.)
RL=25/ 25R=82 PLF U=16 PLF W-4 0-13

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0[illegible]13 QTY:53 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18402
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226099
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423253
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT. WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft. White, FL J01)

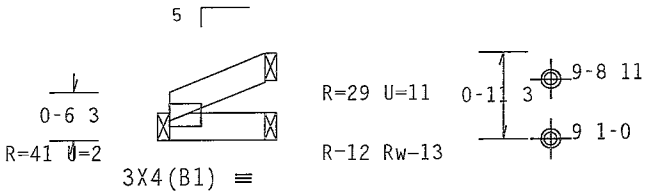
Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 0-11-3

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design



1 0 0 Over 3 Supports

Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0[illegible]2[illegible]13 QTY:8 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18403
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226100
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423212
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL J02)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

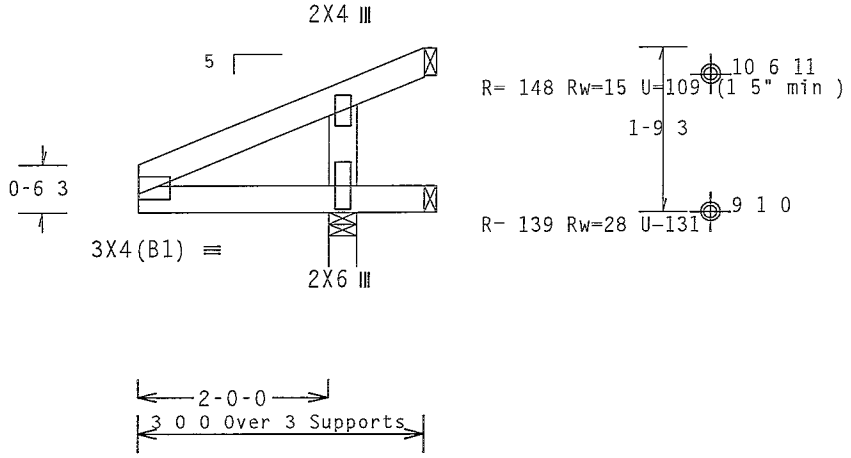
Left cantilever is exposed to wind

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design.

The overall height of this truss excluding overhang is 1-9-3.



Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 [illegible] 13 QTY:8 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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TC LL	20.0 PSF	REF	R215-- 18404
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226101
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423200
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL J03)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

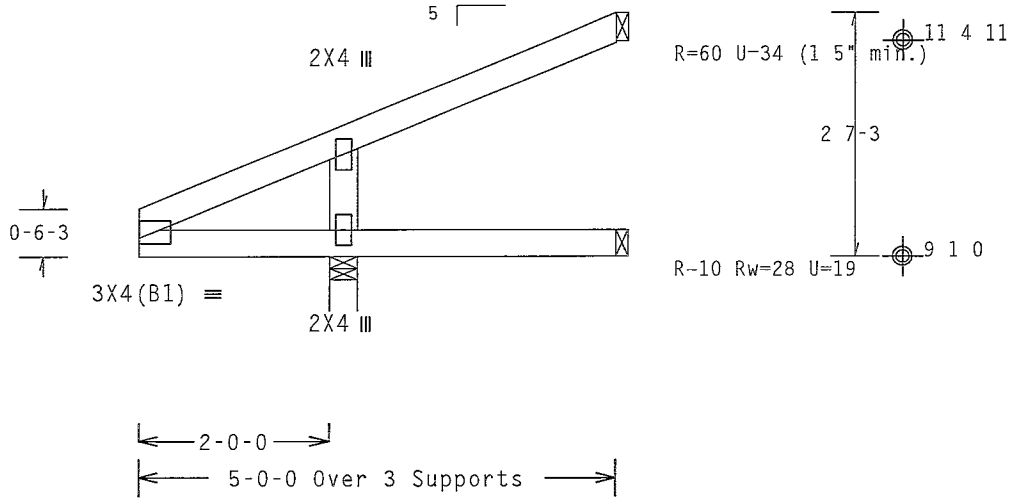
Left cantilever is exposed to wind

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4 50 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf. GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design.

The overall height of this truss excluding overhang is 2-7-3



Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0E [illegible] 13 QTY:8 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66848 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18405
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226102
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423199
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft. White, FL J04)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

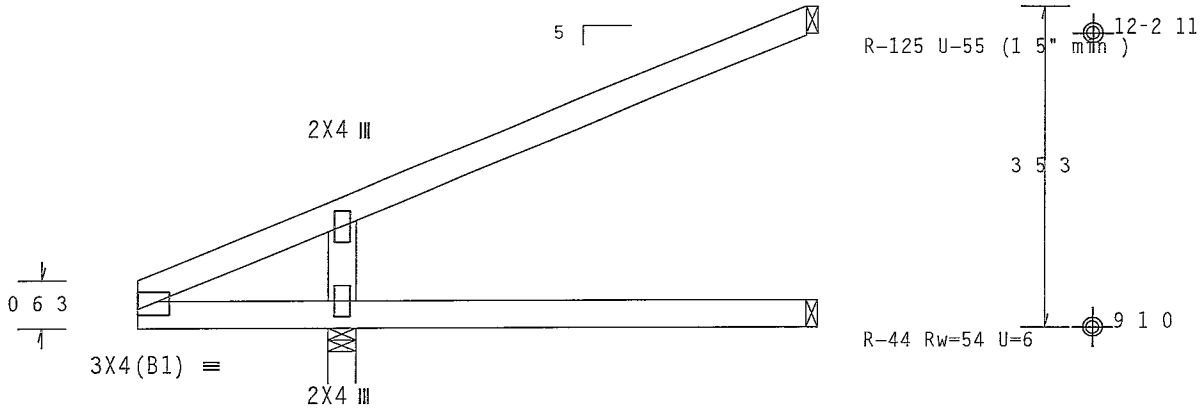
Left cantilever is exposed to wind

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4 50 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf GCpi(+/-)=0.18

Wind loads and reactions based on MWFRS with additional C&C member design

The overall height of this truss excluding overhang is 3 5 3



Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0[illegible]13 QTY:8 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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TC LL	20.0 PSF	REF	R215-- 18406
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226103
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423198
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL J05)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M 31

Left cantilever is exposed to wind

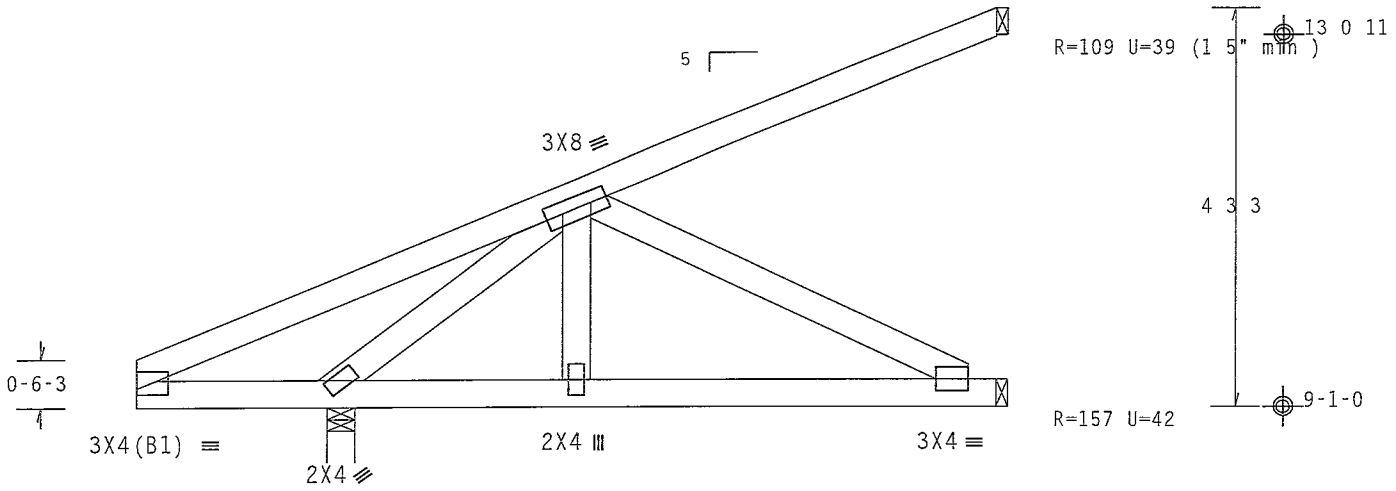
Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1.50

MWFRS loads based on trusses located at least 7 50 ft from roof edge.

130 mph wind, 15 00 ft mean hgt, ASCE 7 10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL-5 0 psf, wind BC DL-5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

The overall height of this truss excluding overhang is 4-3-3



Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.05 V20 13 QTY:20 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18407
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226104
BC LL	0 0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423197
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft. White, FL J08)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M 31
Webs 2x4 SP M-31

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0 18

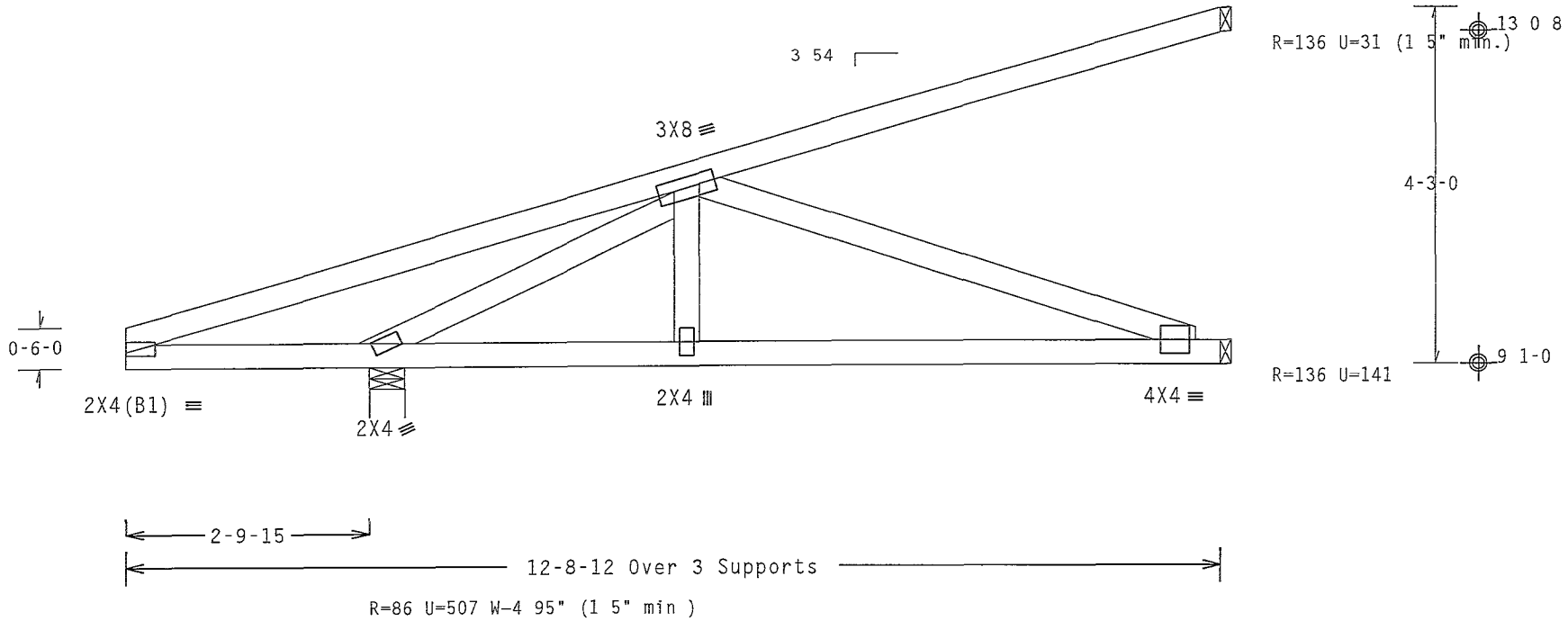
Wind loads and reactions based on MWFRS

Left cantilever is exposed to wind

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1 50

Special loads
-- --(Lumber Dur Fac =1 25 / Plate Dur Fac =1 25)
TC- From 2 plf at 0 00 to 2 plf at 12 73
BC- From 2 plf at 0 00 to 2 plf at 12 73
TC- 57 91 lb Conc Load at 1 48
TC- 107 41 lb Conc Load at 4 31
TC 119 56 lb Conc Load at 7 13
TC- 249 93 lb Conc Load at 9 96
BC- 23 77 lb Conc Load at 1.48
BC- -144 77 lb Conc Load at 4 31
BC- 20 53 lb Conc Load at 7 13
BC- 87.95 lb Conc Load at 9.96

The overall height of this truss excluding overhang is 4-3-0



Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0[illegible]13 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18408
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226105
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423216
DUR.FAC.	1 25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL J09)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Left cantilever is exposed to wind

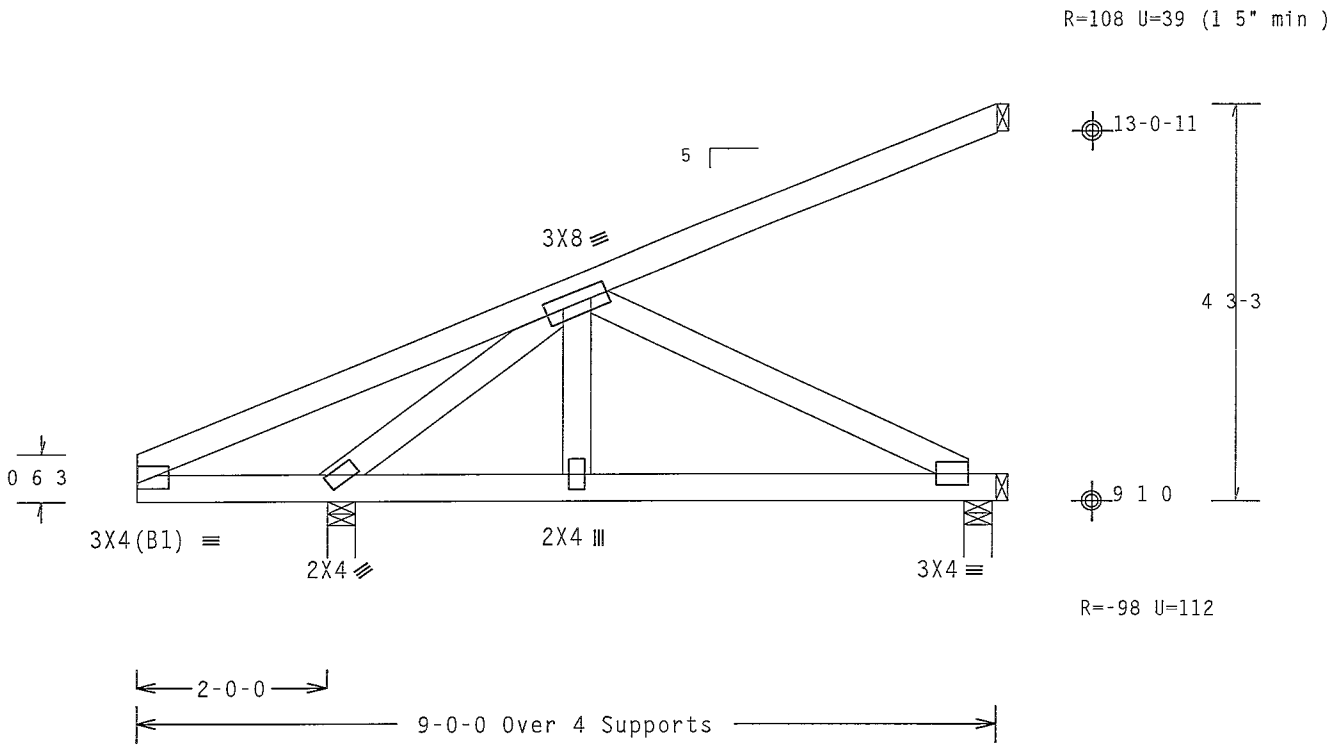
Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50.

MWFRS loads based on trusses located at least 7 50 ft. from roof edge

130 mph wind, 15 00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9 00 ft from roof edge, RISK CAT III OR IV, EXP C, wind TC DL=5 0 psf, wind BC DL=5 0 psf GCpi(+/-)=0 18

Wind loads and reactions based on MWFRS with additional C&C member design

The overall height of this truss excluding overhang is 4-3 3



Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.0[illegible]13 QTY:26 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18409
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10.0 PSF	DRW	HCUSR215 14226106
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423203
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

THIS DWG PREPARED FROM COMPUTER INPUT (LOADS & DIMENSIONS) SUBMITTED BY TRUSS MFR

(8740 /FT WHITE ASSISTED LIV FA /S&S CONSTRUCTION Ft White, FL J10)

Top chord 2x4 SP M-31
Bot chord 2x4 SP M-31
Webs 2x4 SP M-31

Negative reaction(s) of -292# MAX. (See below) from a non wind load case requires uplift connection

130 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT III OR IV, EXP C, wind TC DL=5.0 psf, wind BC DL=5 0 psf GCpi(+/-)=0.18

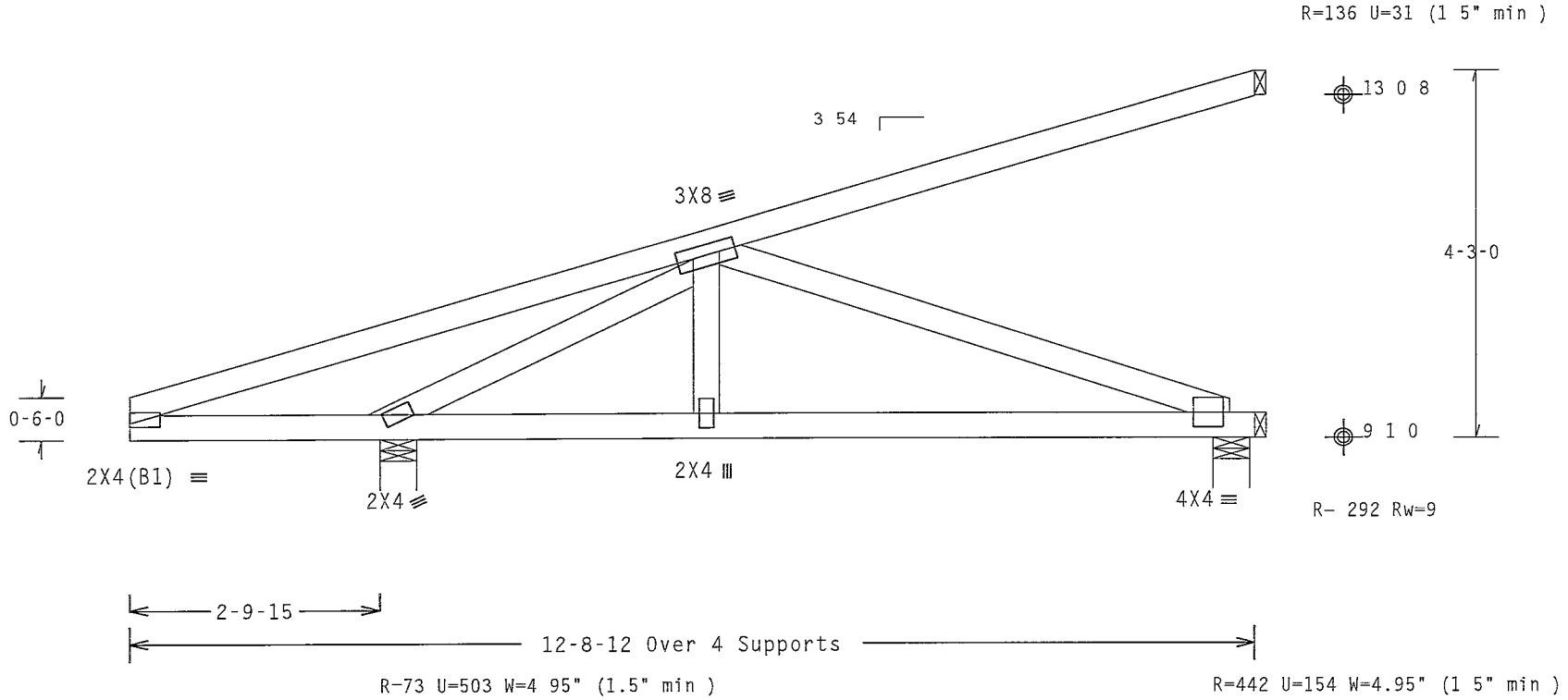
Wind loads and reactions based on MWFRS

Left cantilever is exposed to wind

The overall height of this truss excluding overhang is 4-3-0

Special loads
----(Lumber Dur.Fac -1 25 / Plate Dur Fac =1 25)
TC- From 2 plf at 0 00 to 2 plf at 12 73
BC- From 2 plf at 0 00 to 2 plf at 12 73
TC- 57.91 lb Conc Load at 1.48
TC- 107.41 lb Conc Load at 4 31
TC- 119 56 lb Conc Load at 7 13
TC- 249.93 lb Conc Load at 9 96
BC- 23.77 lb Conc Load at 1 48
BC- -144 77 lb Conc Load at 4 31
BC- 20.53 lb Conc Load at 7 13
BC- 87.95 lb Conc Load at 9 96

Deflection meets L/240 live and L/180 total load Creep increase factor for dead load is 1 50



Design Crit: FBC2010Com/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 13.02.00 12 13 QTY:2 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0 278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 18410
TC DL	10.0 PSF	DATE	08/14/14
BC DL	10 0 PSF	DRW	HCUSR215 14226107
BC LL	0.0 PSF	HC-ENG	GA/DF
TOT.LD.	40.0 PSF	SEQN-	423214
DUR.FAC.	1 25	FROM	CDM
SPACING	24.0"	JREF-	1V8X215_Z04

CLR Reinforcing Member Substitution

This detail is to be used when a Continuous Lateral Restraint (CLR) is specified on a truss design but an alternative web reinforcement method is desired.

Notes:

This detail is only applicable for changing the specified CLR shown on single ply sealed designs to T-reinforcement or L-reinforecement or scab reinforcement.

Alternative reinforcement specified in chart below may be conservative. For minimum alternative reinforcement, re-run design with appropriate reinforcement type.

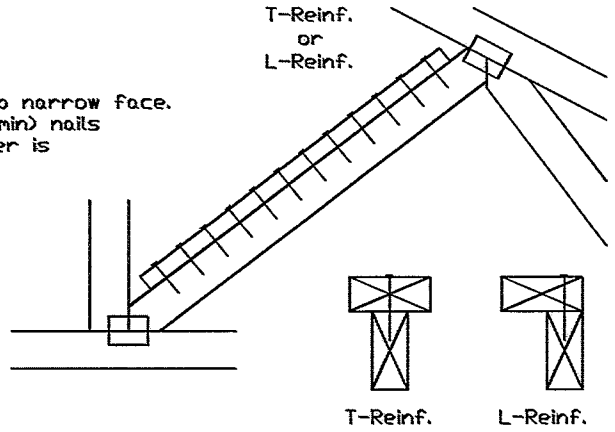
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(K)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(K)

T-reinforcement, L-reinforcement, or scab reinforcement to be same species and grade or better than web member unless specified otherwise on Engineer's sealed design.

(K) Center scab on wide face of web. Apply (1) scab to each face of web.

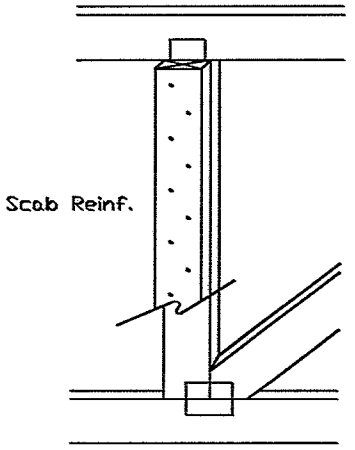
T-Reinforcement or L-Reinforcement:

Apply to either side of web narrow face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Scab Reinforcement:

Apply scab(s) to wide face of web. No more than (1) scab per face. Attach with 10d (0.128"x3.0",min) nails at 6" o.c. Reinforcing member is a minimum 80% of web member length.



Building Components Group Inc.

Earth City, MO 63045

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

9/4 '14

TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 8/15/13
BC DL	PSF	DRWG BRCLBSUB0813
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		

Gable Stud Reinforcement Detail

ASCE 7-10: 140 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 120 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure D, Kzt = 1.00
Or: 100 mph Wind Speed, 15' Mean Height, Partially Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

2x4 Gable Vertical Spacing	Species	Brace Grade	No Braces	(1) 1x4 "L" Brace *		(1) 2x4 "L" Brace *		(2) 2x4 "L" Brace **		(1) 2x6 "L" Brace *		(2) 2x6 "L" Brace **	
				Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
24" o.c.	SPF HF	#1 / #2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
		#3	4' 1"	6' 7"	7' 1"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Stud	4' 1"	7' 2"	7' 5"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
		Standard	4' 1"	6' 11"	7' 5"	8' 6"	8' 10"	10' 1"	10' 6"	13' 4"	13' 10"	14' 0"	14' 0"
	SP DFL	#1	4' 4"	7' 4"	7' 7"	8' 8"	9' 0"	10' 3"	10' 8"	13' 7"	14' 0"	14' 0"	14' 0"
		#2	4' 3"	7' 3"	7' 7"	8' 7"	8' 11"	10' 3"	10' 8"	13' 6"	14' 0"	14' 0"	14' 0"
		#3	4' 1"	5' 11"	6' 4"	7' 11"	8' 5"	10' 1"	10' 6"	12' 5"	13' 3"	14' 0"	14' 0"
		Stud	4' 1"	5' 11"	6' 4"	7' 11"	8' 5"	10' 1"	10' 6"	12' 5"	13' 3"	14' 0"	14' 0"
		Standard	3' 11"	5' 2"	5' 5"	6' 10"	7' 4"	9' 3"	9' 11"	10' 9"	11' 6"	14' 0"	14' 0"
16" o.c.	SPF HF	#1 / #2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 8"	8' 1"	8' 8"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 8"	8' 2"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 8"	8' 2"	8' 6"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 0"	8' 5"	8' 8"	9' 11"	10' 3"	11' 9"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 11"	8' 4"	8' 8"	9' 10"	10' 3"	11' 8"	12' 2"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 8"	7' 3"	7' 9"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	4' 8"	7' 3"	7' 9"	9' 8"	10' 1"	11' 7"	12' 1"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	4' 8"	6' 3"	6' 8"	8' 5"	8' 11"	11' 4"	12' 1"	13' 2"	14' 0"	14' 0"	14' 0"
12" o.c.	SPF HF	#1 / #2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	11' 8"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 1"	9' 0"	9' 4"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	SP DFL	#1	5' 6"	9' 3"	9' 7"	10' 11"	11' 4"	12' 11"	13' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 5"	9' 2"	9' 6"	10' 10"	11' 3"	12' 11"	13' 5"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	5' 1"	8' 4"	8' 11"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Stud	5' 1"	8' 4"	8' 11"	10' 8"	11' 1"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"
		Standard	5' 1"	7' 3"	7' 9"	9' 8"	10' 4"	12' 9"	13' 3"	14' 0"	14' 0"	14' 0"	14' 0"

Bracing Group Species and Grades:

Group A:

Spruce-Pine-Fir		Hem-Fir	
#1 / #2	Standard	#2	Stud
#3	Stud	#3	Standard

Douglas Fir-Larch	Southern Pine***
#3	#3
Stud	Stud
Standard	Standard

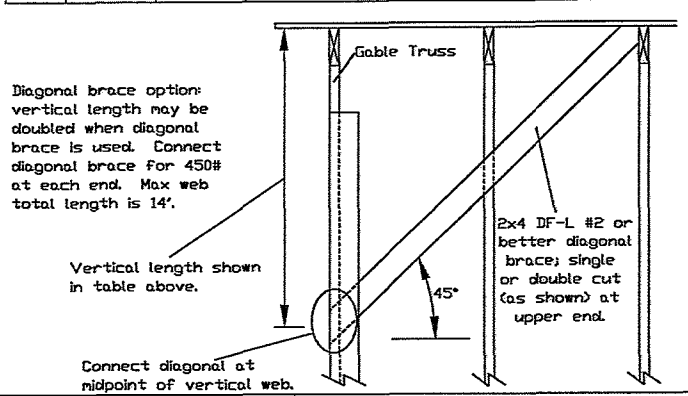
Group B:

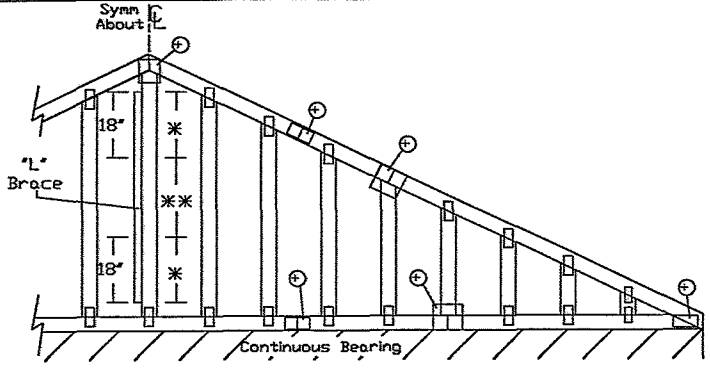
Hem-Fir
#1 & Btr
#1

Douglas Fir-Larch	Southern Pine***
#1	#1
#2	#2

1x4 Braces shall be SRB (Stress-Rated Board).

***For 1x4 So. Pine use only Industrial 55 or Industrial 45 Stress-Rated Boards. Group B values may be used with these grades.





Refer to chart above for max gable vertical length.

Gable Truss Detail Notes:

Wind Load deflection criterion is L/240.

Provide uplift connections for 55 plf over continuous bearing (5 psf TC Dead Load).

Gable end supports load from 4' 0" outlookers with 2' 0" overhang, or 12" plywood overhang.

So. Pine lumber design values based on the ALSC January, 2012 ruling.

Attach "L" braces with 10d (0.128"x3.0" min) nails.

* For (1) "L" brace: space nails at 2" o.c. in 18" end zones and 4" o.c. between zones.

** For (2) "L" braces: space nails at 3" o.c. in 18" end zones and 6" o.c. between zones.

"L" bracing must be a minimum of 80% of web member length.

Gable Vertical Plate Sizes

Vertical Length	No Splice
Less than 4' 0"	1X4 or 2X3
Greater than 4' 0", but less than 11' 6"	2.5X4
Greater than 11' 6"	3X4

+ Refer to common truss design for peak, splice, and heel plates.

Refer to the Building Designer for conditions not addressed by this detail.

TW Building Components Group Inc.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

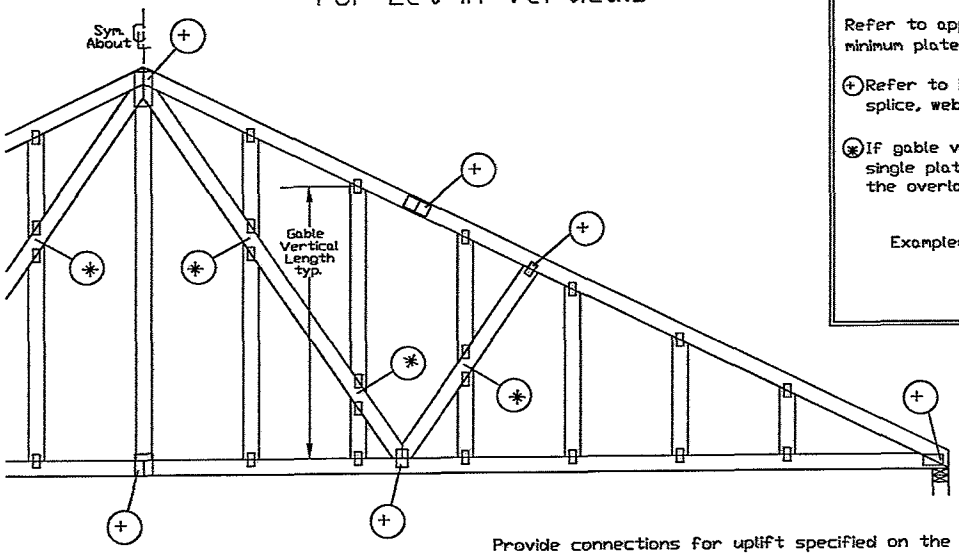
9 12 '14

MAX. TOT. LD. 60 PSF

MAX. SPACING 24.0"

REF ASCE7-10-GAB14015
DATE 2/14/12
DRWG A14015ENC100212

Gable Detail
For Let-in Verticals



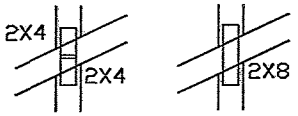
Gable Truss Plate Sizes

Refer to appropriate ITW gable detail for minimum plate sizes for vertical studs.

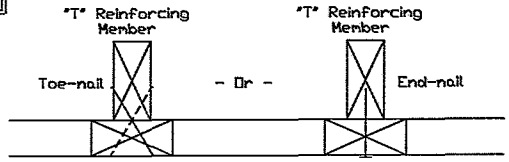
⊕ Refer to Engineered truss design for peak, splice, web, and heel plates.

⊛ If gable vertical plates overlap, use a single plate that covers the total area of the overlapped plates to span the web.

Example:



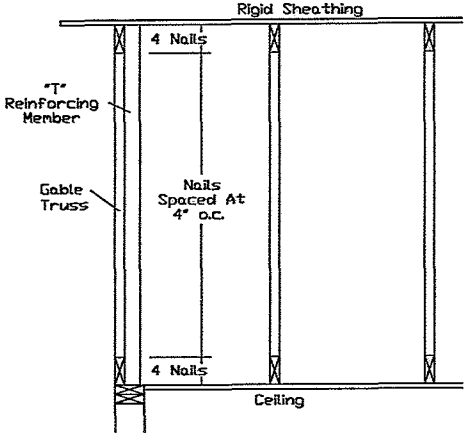
"T" Reinforcement Attachment Detail



Provide connections for uplift specified on the engineered truss design.

Attach each "T" reinforcing member with
End Driven Nails:
10d Common (0.148"x 3",min) Nails at 4" o.c. plus
(4) nails in the top and bottom chords.

Toenailed Nails:
10d Common (0.148"x3",min) Toenails at 4" o.c. plus
(4) toenails in the top and bottom chords.



This detail to be used with the appropriate ITW gable detail for ASCE wind load.

ASCE 7-98 Gable Detail Drawings
A13015980109, A12015980109, A11015980109, A10015980109,
A13030980109, A12030980109, A11030980109, A10030980109

ASCE 7-02 Gable Detail Drawings
A13015020109, A12015020109, A11015020109, A10015020109, A14015020109,
A13030020109, A12030020109, A11030020109, A10030020109, A14030020109

ASCE 7-05 Gable Detail Drawings
A13015050109, A12015050109, A11015050109, A10015050109, A14015050109,
A13030050109, A12030050109, A11030050109, A10030050109, A14030050109

ASCE 7-10 Gable Detail Drawings
A11515ENC100212, A12015ENC100212, A14015ENC100212, A16015ENC100212,
A18015ENC100212, A20015ENC100212, A20015END100212, A20015PED100212,
A11530ENC100212, A12030ENC100212, A14030ENC100212, A16030ENC100212,
A18030ENC100212, A20030ENC100212, A20030END100212, A20030PED100212

See appropriate ITW gable detail for maximum unreinforced gable vertical length.

To convert from "L" to "T" reinforcing members, multiply "T" increase by length (based on appropriate ITW gable detail).

Maximum allowable "T" reinforced gable vertical length is 14' from top to bottom chord.

"T" reinforcing member material must match size, specie, and grade of the "L" reinforcing member.

Web Length Increase w/ "T" Brace

"T" Reinf. Mbr. Size	"T" Increase
2x4	30 %
2x6	20 %

Example:
ASCE 7-10 Wind Speed = 120 mph
Mean Roof Height = 30 ft, Kzt = 1.00
Gable Vertical = 24"o.c. SP #3
"T" Reinforcing Member Size = 2x4
"T" Brace Increase (From Above) = 30% = 1.30
(1) 2x4 "L" Brace Length = 8' 7"
Maximum "T" Reinforced Gable Vertical Length
1.30 x 8' 7" = 11' 2"

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Earth City, MO 63045

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

Aug 22, '14

MAX. TOT. L.D. 60 PSF
DUR. FAC. ANY
MAX. SPACING 24.0"

REF	LET-IN VERT
DATE	2/16/12
DRWG	GBLLETIN0212

Piggyback Detail - ASCE 7-10: 160 mph, 30' Mean Height, Enclosed, Exposure C, Kzt=1.00

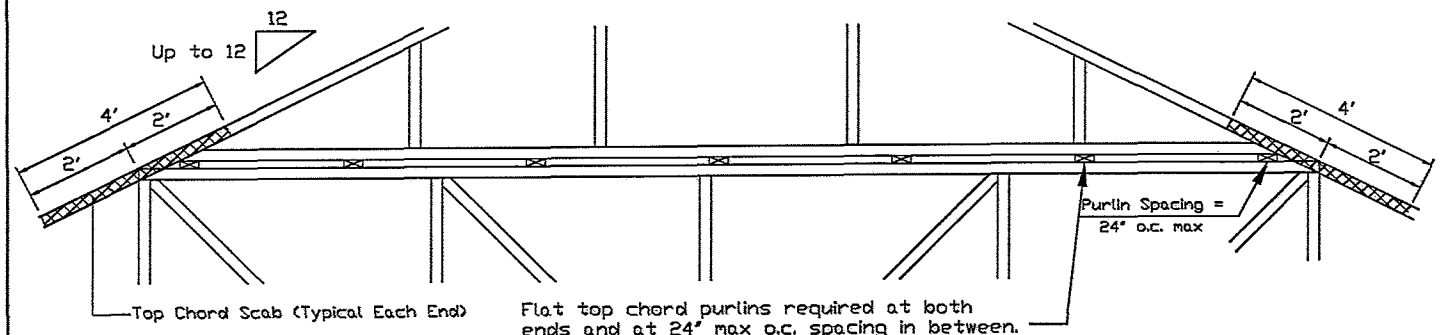
160 mph Wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp C, Wind DL= 5.0 psf (min), Kzt=1.0.
Or 140 mph wind, 30.00 ft Mean Hgt, ASCE 7-10, Enclosed Bldg. located anywhere in roof, Exp D, wind DL= 5.0 psf (min), Kzt=1.0.

Note: Top chords of trusses supporting piggyback cap trusses must be adequately braced by sheathing or purlins. The building Engineer of Record shall provide diagonal bracing or any other suitable anchorage to permanently restrain purlins, and lateral bracing for out of plane loads over gable ends.

Maximum truss spacing is 24" o.c. detail is not applicable if cap supports additional loads such as cupola, steeple, chimney or drag strut loads.

** Refer to Engineer's sealed truss design drawing for piggyback and base truss specifications.

Detail A : Purlin Spacing = 24" o.c. or less



Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

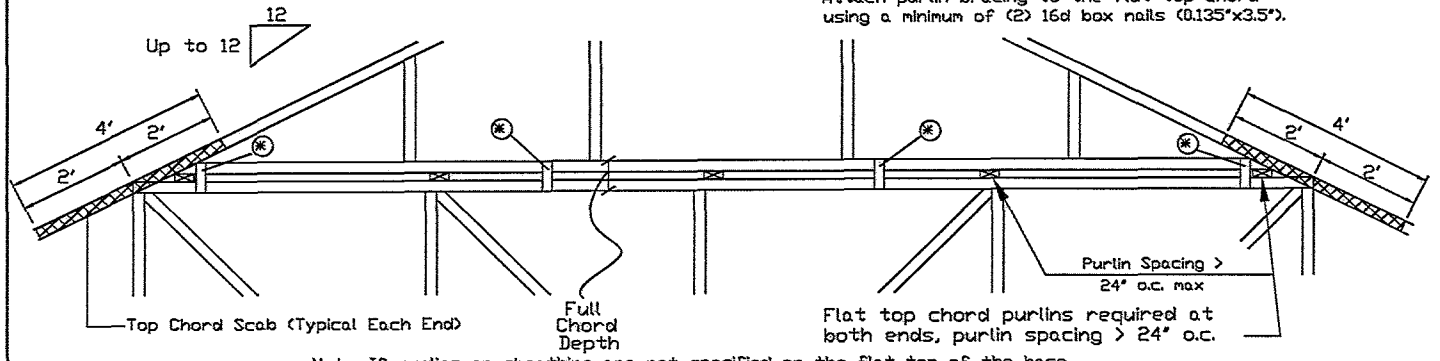
Attach purlin bracing to the flat top chord using (2) 16d box nails (0.135"x3.5").

The top chord #3 grade 2x4 scab may be replaced with either of the following: (1) 3X8 Trulox plate attached with (8) 0.120"x1.375" nails, (4) into cap TC & (4) into base truss TC or (1) 28PB wave piggyback plate plated to the piggyback truss TC and attached to the base truss TC with (4) 0.120"x1.375" nails. Note Nailing thru holes of wave plate is acceptable.

Detail B : Purlin Spacing > 24" o.c.

Piggyback cap truss slant nailed to all top chord purlin bracing with (2) 16d box nails (0.135"x3.5") and secure top chord with 2x4 #3 grade scab (1 side only at each end) attached with 2 rows of 10d box nails (0.128"x3") at 4" o.c.

Attach purlin bracing to the flat top chord using a minimum of (2) 16d box nails (0.135"x3.5").



Note: If purlins or sheathing are not specified on the flat top of the base truss, purlins must be installed at 24" o.c. max. and use Detail A.

* In addition, provide connection with one of the following methods:

Trulox
Use 3X8 Trulox plates for 2x4 chord member, and 3X10 Trulox plates for 2x6 and larger chord members. Attach to each face @ 8" o.c. with (4) 0.120"x1.375" nails into cap bottom chord and (4) in base truss top chord. Trulox plates may be staggered 4" o.c. front to back faces.

APA Rated Gusset
8"x8"x7/16" (min) APA rated sheathing gussets (each face). Attach @ 8" o.c. with (8) 6d common (0.113"x2") nails per gusset, (4) in cap bottom chord and (4) in base truss top chord. Gussets may be staggered 4" o.c. front to back faces.

2x4 Vertical Scabs
2x4 SPF #2, full chord depth scabs (each face). Attach @ 8" o.c. with (6) 10d box nails (0.128"x3") per scab, (3) in cap bottom chord and (3) in base truss top chord. Scabs may be staggered 4" o.c. front to back faces.

28PB Wave Piggyback Plate
One 28PB wave piggyback plate to each face @ 8" o.c. Attach teeth to piggyback at time of fabrication. Attach to supporting truss with (4) 0.120"x1.375" nails per face per ply. Piggyback plates may be staggered 4" o.c. front to back faces.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

OCT 02 '14

REF	PIGGYBACK
DATE	2/14/12
DRWG	PB160100212
SPACING	24.0"