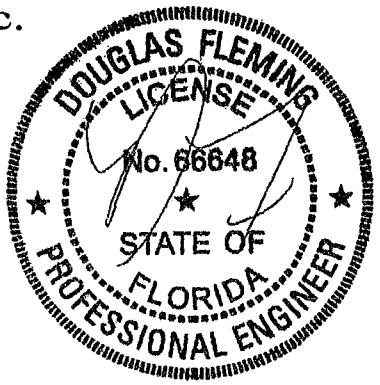
ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number 0 278
Florida Certificate of Product Approval # FL1999
 Document ID 1V0Z215-Z0104092202



11/04/2013

Truss Fabricator	W.B. Howland
Job Identification	8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL
Truss Count	22
Model Code	Florida Building Code 2010
Truss Criteria.	FBC2010Res/TPI-2007(STD)
Engineering Software	Alpine Software,Version 12.03.
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 - 120 MPH ASCE 7-10 -Closed

Notes

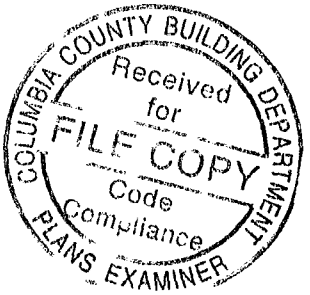
1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1
2. The drawing date shown on this index sheet must match the date shown on the individual truss component drawing.
3. As shown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

Douglas Fleming
-Truss Design Engineer-

1950 Marley Drive
Haines City, FL 33844

Details: 12015EC1-GBLLETIN-GABRST10-BRCLBSUB-12030EC1-

#	Ref Description	Drawing#	Date
1	86827--A	13308001	11/04/13
2	86828--A1	13308002	11/04/13
3	86829--B	13308003	11/04/13
4	86830--B1	13308004	11/04/13
5	86831--B2	13308005	11/04/13
6	86832--B3	13308006	11/04/13
7	86833--C	13308007	11/04/13
8	86834--C1	13308008	11/04/13
9	86835--D	13308009	11/04/13
10	86836--D1	13308010	11/04/13
11	86837--H	13308011	11/04/13
12	86838--H1	13308012	11/04/13
13	86839--H2	13308013	11/04/13
14	86840--J	13308014	11/04/13
15	86841--J1	13308015	11/04/13
16	86842--J2	13308016	11/04/13
17	86843--J3	13308022	11/04/13
18	86844--K	13308017	11/04/13
19	86845--K1	13308018	11/04/13
20	86846--K2	13308019	11/04/13
21	86847--M1	13308020	11/04/13
22	86848--M	13308021	11/04/13



(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - A1)

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

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

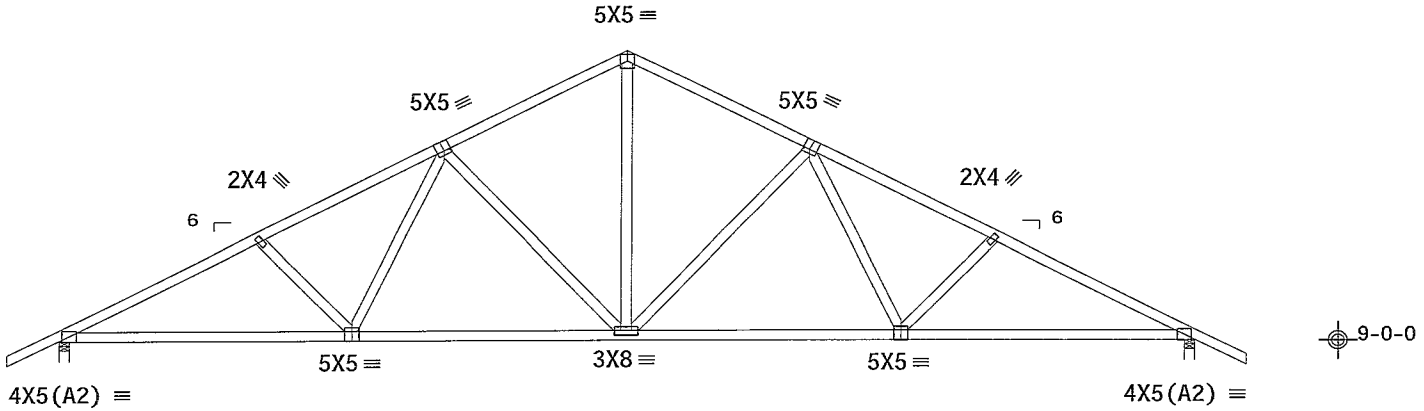
Bottom chord checked for 10.00 psf non-concurrent live load.

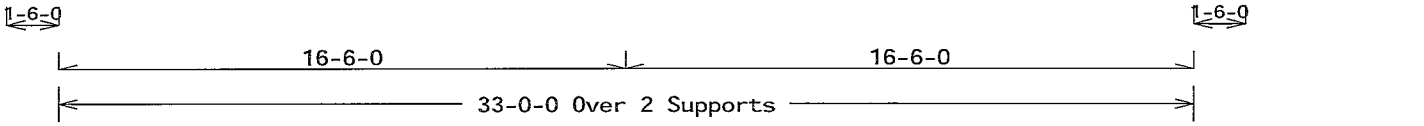
The overall height of this truss excluding overhang is 8-7-3.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, 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.





R=1506 U=0 W=3.5" (3.5" min.)
RL=146/-146

R=1507 U=0 W=3.5" (3.5" min.)

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.02 2-7-14 | QTY:8 | FL/-/1/-/-/R/- | Scale =.1875"/Ft.

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

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
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ITW Building Components Group Inc (ITWBCG) shall not be responsible for any dev ation from this design any failure to build the truss in conformance with ANSI/TPI 1 or for handl ng shipp ng 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-- 86828
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308002
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384588
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - B)

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

See DWGS A12015ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.

(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.

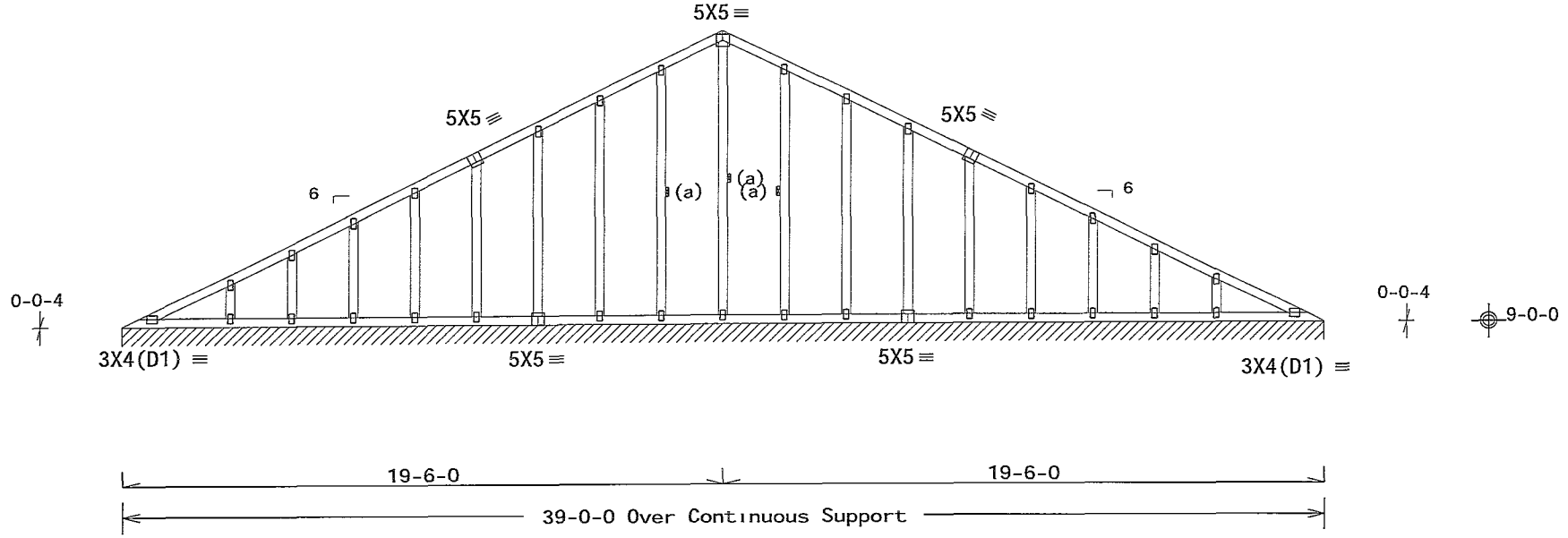
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 9-9-4

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



R=80 PLF U=0 PLF W=39-0-0
RL=4/-4 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.02 005.14 QTY:1 FL/-/1/-/-/R/- Scale =.1875"/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-- 86829
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308003
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384592
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - B1)

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

Right cantilever is exposed to wind

(a) Continuous lateral restraint equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

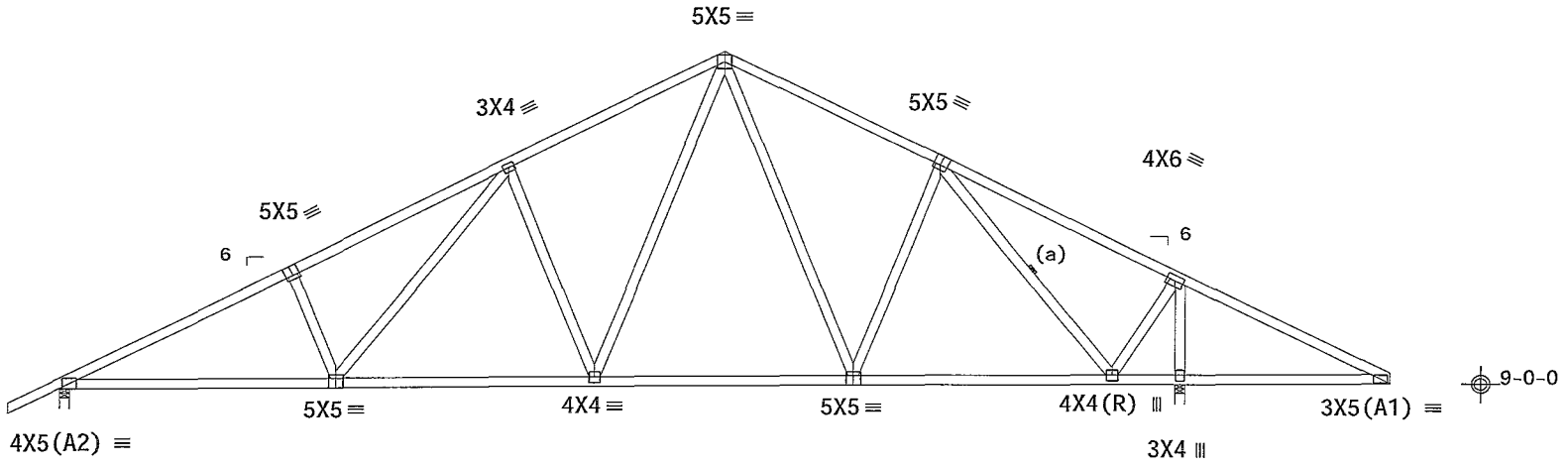
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.0[illegible]4 QTY:4 FL/-/1/-/-/R/- Scale =.1875"/Ft.

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

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DOUGLAS A. FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 86830
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308004
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384595
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - B2)

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

(a) Continuous lateral restraint equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

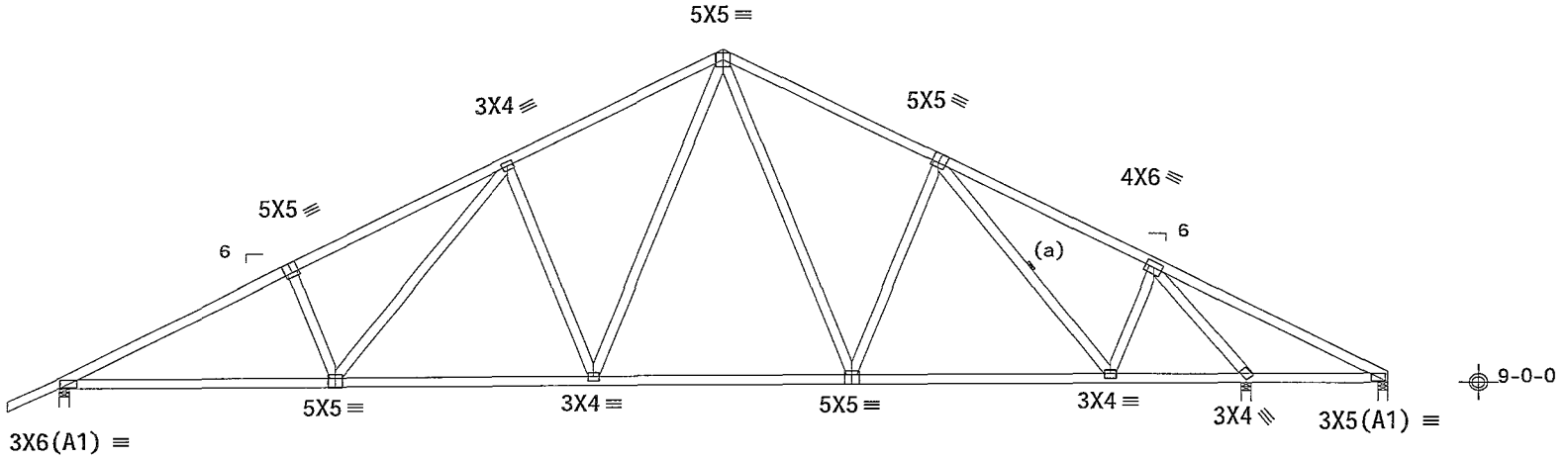
MWFRS loads based on trusses located at least 15.00 ft. from roof edge.

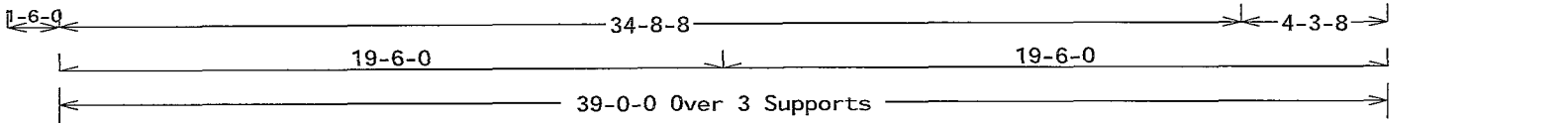
Negative reaction(s) of -261# MAX. (See below) from a non-wind load case requires uplift connection.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, 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 10-1-3.





R=1465 U=0 W=3.5" (3.5" min.)
RL=159/-166

R=1881 U=0 W=3.5" (3.5" min.)
R=56/-261 U=115 W=3.5" (3.5" min.)

Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.0325 | QTY·1 | FL/-/1/-/-/R/- | Scale =.1875"/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

11/04/2013

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TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308005
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384598
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - B3)

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

(a) Continuous lateral restraint equally spaced on member.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Bottom chord checked for 10.00 psf non-concurrent live load.

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.

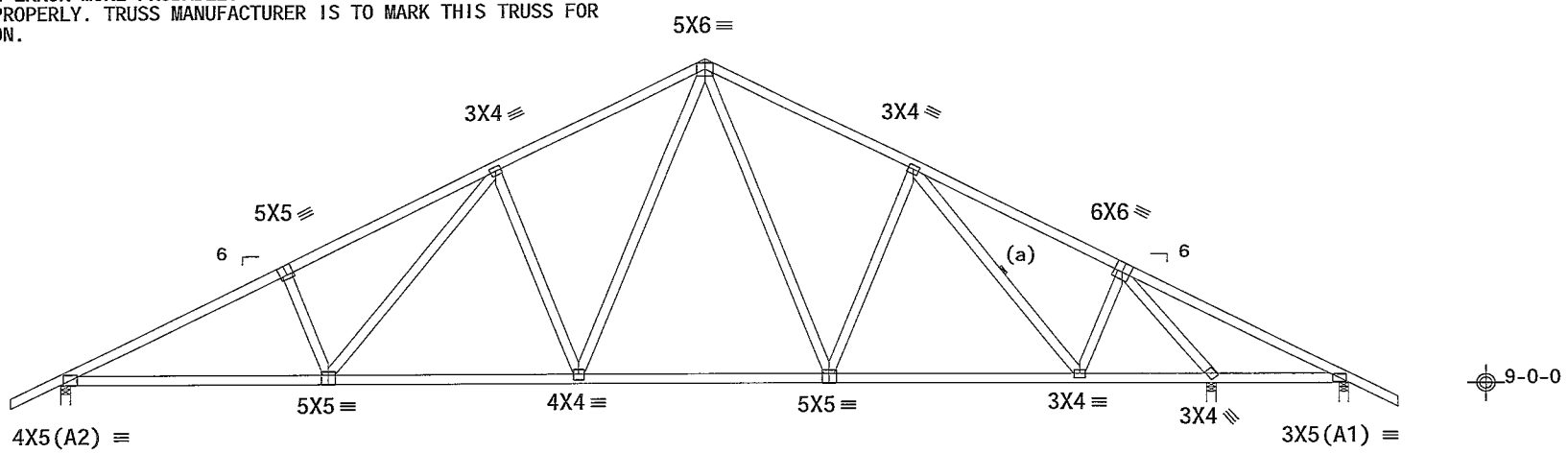
WARNING! THIS TRUSS IS NOT SYMMETRIC, BUT ITS EXTERIOR GEOMETRY MAKES ERECTION ERROR MORE PROBABLE. IT IS IMPERATIVE THAT THIS TRUSS BE INSTALLED PROPERLY. TRUSS MANUFACTURER IS TO MARK THIS TRUSS FOR PROPER ERECTION.

Negative reaction(s) of -296# MAX. (See below) from a non-wind load case requires uplift connection.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, 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.



R=1637 U=0 W=3.5" (3 5" min.)
RL=174/-174

R=2198 U=0 W=3.5" (3.5" min.)
R=78/-296 U=104 W=3.5" (3.5" min.)

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.03.025 | QTY:4 | FL/-/1/-/-/R/- | Scale =.1875"/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-- 86832
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308006
BC LL	0.0 PSF		HC-ENG KD/DF
TOT.LD.	40.0 PSF	SEQN-	384601
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - C)

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

(a) Continuous lateral restraint equally spaced on member.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

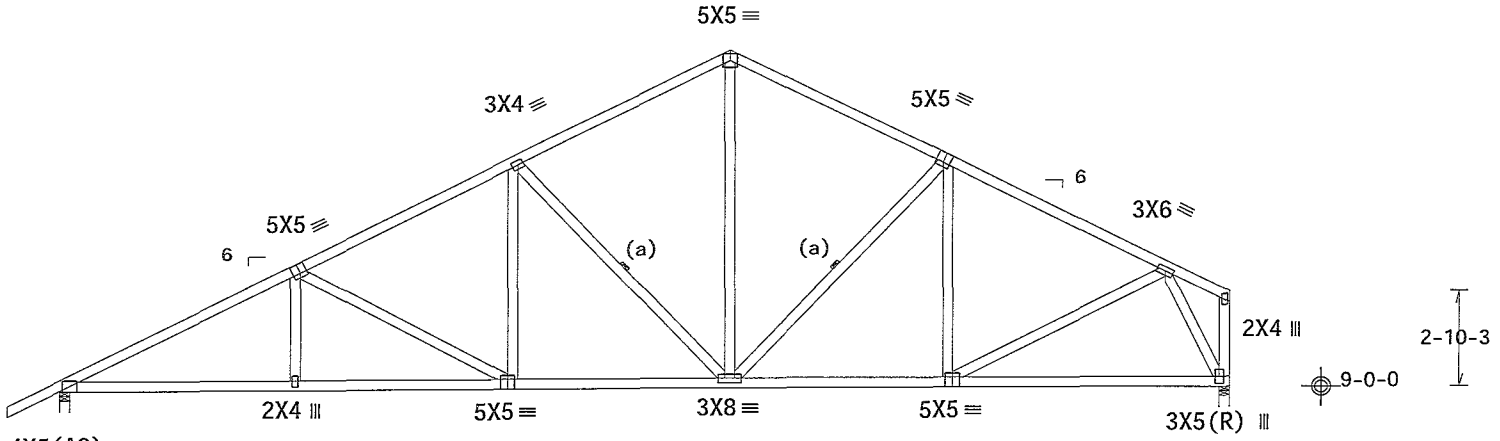
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

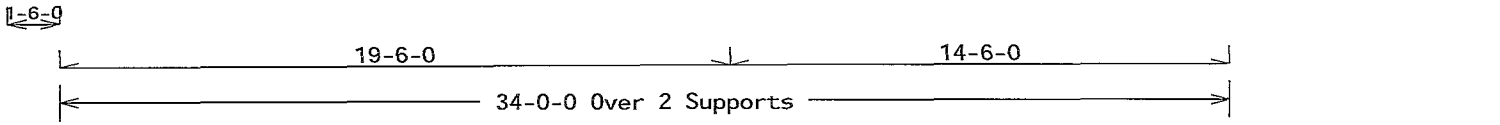
Wind loads and reactions based on MWFRS with additional C&C member design.

Right end vertical not exposed to wind pressure.

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 15.00 ft. from roof edge.





R=1551 U=0 W=3.5" (3.5" min)
RL=145/-134

R=1466 U=0 W=3 5" (3.5" min.)

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.02 0005.14 | QTY:2 | FL/-/1/-/-/R/- | Scale =.1875"/Ft.

ALPINE
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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-- 86833
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308007
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384607
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - C1)

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

(a) Continuous lateral restraint equally spaced on member.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Bottom chord checked for 10.00 psf non-concurrent live load.

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

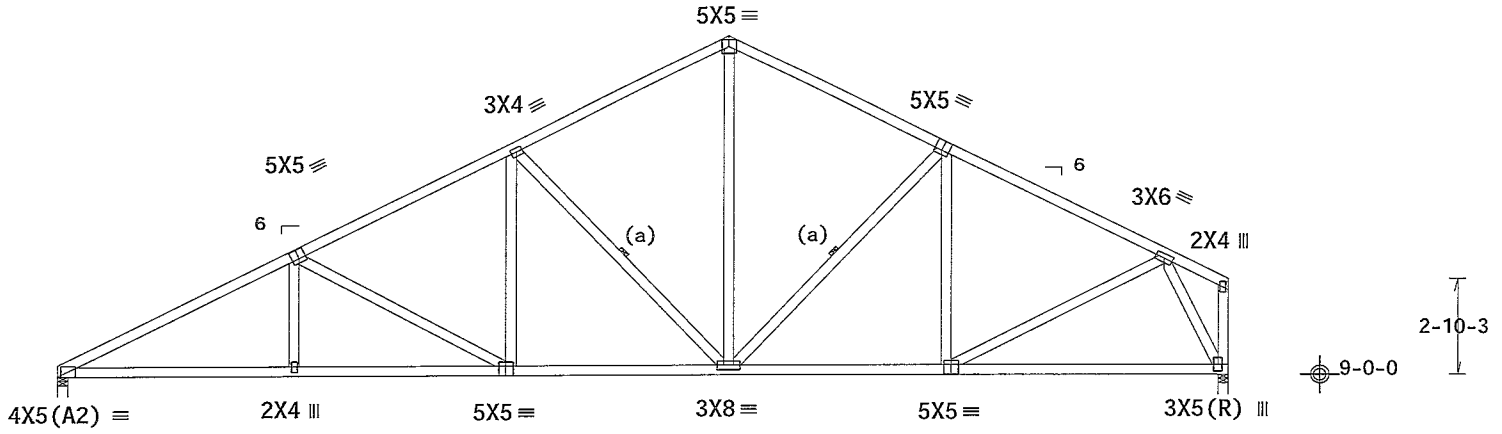
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

Right end vertical not exposed to wind pressure.

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 15.00 ft. from roof edge.



19-6-0 | 14-6-0

34-0-0 Over 2 Supports

R=1448 U=0 W=3.5" (3.5" min.)
RL=137/-119

R=1465 U=0 W=3.5" (3.5" min)

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.02 R215 A4 | QTY:1 | FL/-/1/-/-/R/- | Scale =.1875"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0278

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-- 86834
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308008
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384612
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - D)

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

End verticals not exposed to wind pressure.

(a) Continuous lateral restraint equally spaced on member.

Bottom chord checked for 10.00 psf non-concurrent live load.

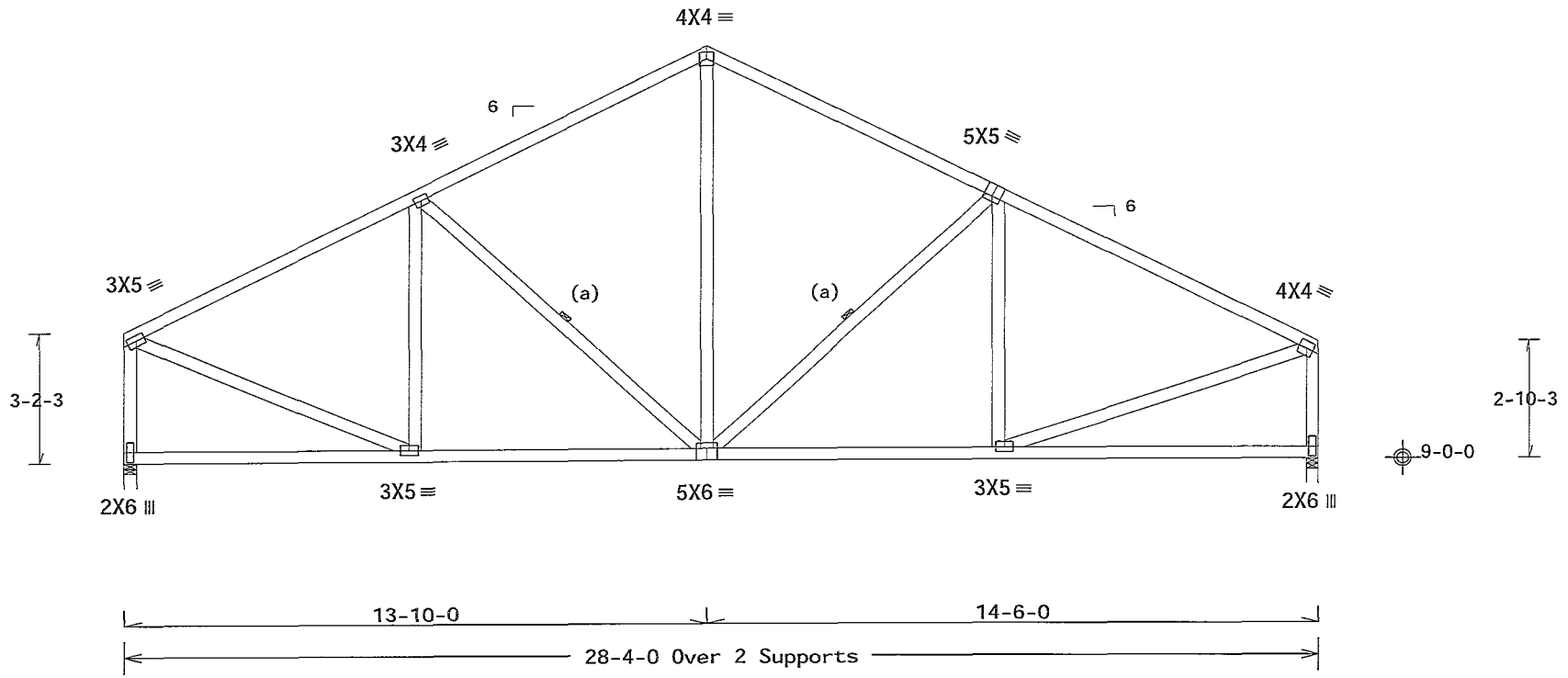
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

120 mph wind, 15.47 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, 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.

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

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



R=1239 U=0 W=3.5" (3.5" min.)
RL=103/-105

R=1235 U=0 W=3.5" (3.5" min.)

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.03 - 14 | QTY:8 | FL/-/1/-/-/R/- | Scale =.25"/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-- 86835
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308009
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384616
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - D1)

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

End verticals not exposed to wind pressure.

See DWGS A12030ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.

Bottom chord checked for 10.00 psf non-concurrent live load.

Fasten rated sheathing to one face of this frame.

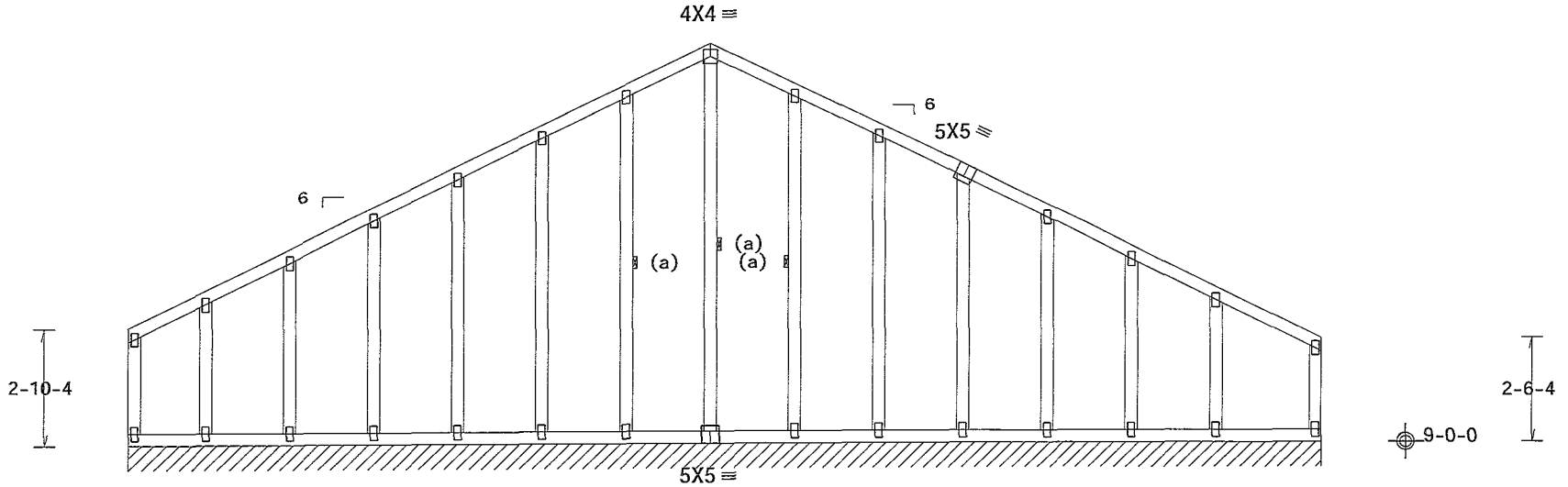
120 mph wind, 15.15 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5 0 psf. GCpi(+/-)=0.18

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

(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 9-9-4.



R=80 PLF U=0 PLF W=28-4-0
RL=4/-4 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.0 QTY.1 FL/-/1/-/-/R/- Scale =.25"/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-- 86836
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308010
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384634
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - H)

Top chord 2x4 SP M-31 T2 2x6 SP M-31
Bot chord 2x6 SP M-31
Webs 2x4 SP M-31

Wind loads and reactions based on MWFRS.

#1 hip supports 5-0-0 jacks with no webs.

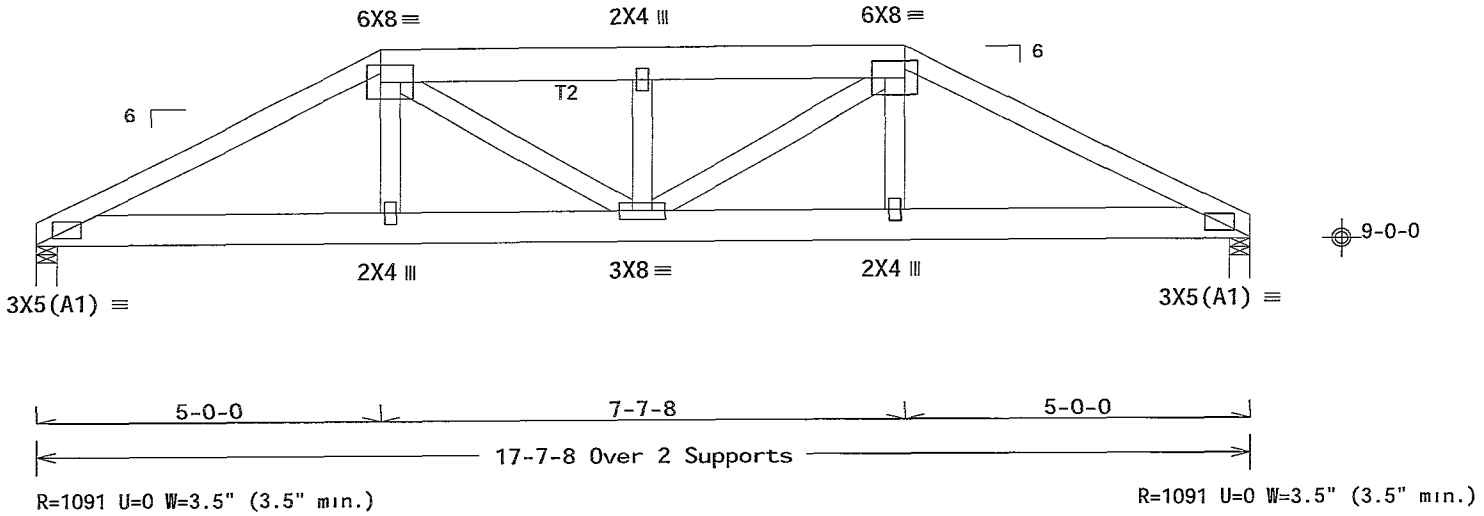
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

The overall height of this truss excluding overhang is 2-10-3.

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

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

Left side jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang.
End jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang.
Right side jacks have 5-0-0 setback with 0-0-0 cant and 1-6-0 overhang.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.03.0225.14 QTY.1 FL/-/1/-/-/R/- Scale =.375"/Ft.

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

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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-- 86837
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308011
BC LL	0.0 PSF		HC-ENG KD/DF
TOT.LD.	40.0 PSF	SEQN-	384568
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

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

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - H1)

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

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

Bottom chord checked for 10.00 psf non-concurrent live load.

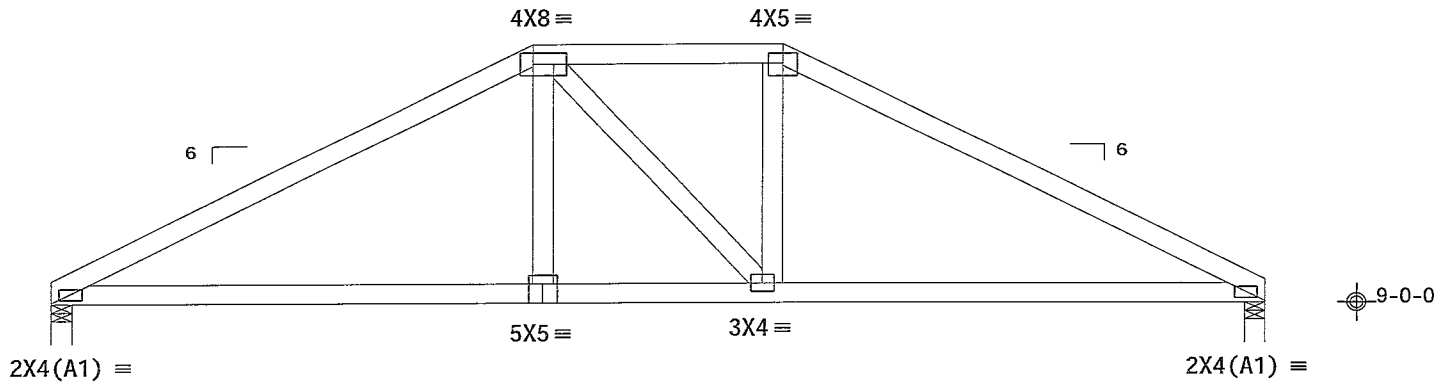
The overall height of this truss excluding overhang is 3-10-3.

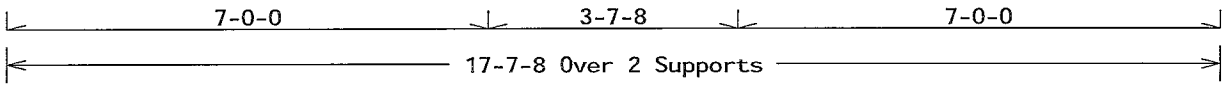
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.





R=705 U=0 W=3.5" (3.5" min.)
RL=51/-51

R=705 U=0 W=3.5" (3.5" min.)

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.08.0825 QTY:1 FL/-/1/-/-/R/- Scale =.375"/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-- 86838
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308012
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384579
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

11/04/2013

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - H2)

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

Bottom chord checked for 10.00 psf non-concurrent live load.

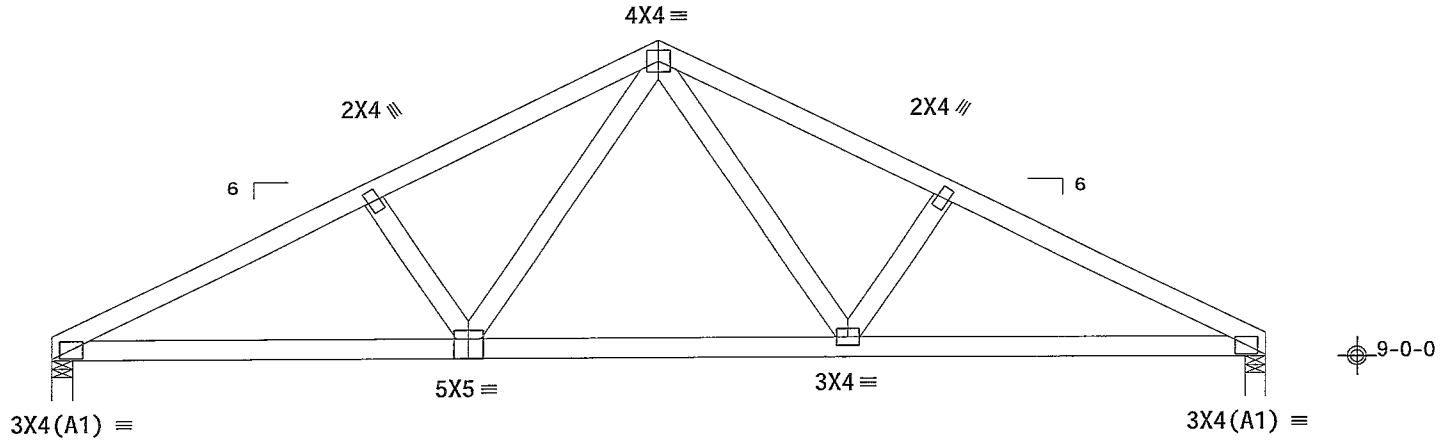
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

MWFRS loads based on trusses located at least 7.50 ft. from roof edge.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, 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 4-9-1.



R=705 U=0 W=3.5" (3.5" min.)
RL=64/-64

R=705 U=0 W=3.5" (3.5" min.)

Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.0 0225 QTY:2 FL/-/1/-/-/R/- Scale =.375"/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-- 86839
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308013
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384582
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

11/04/2013

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - J)

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

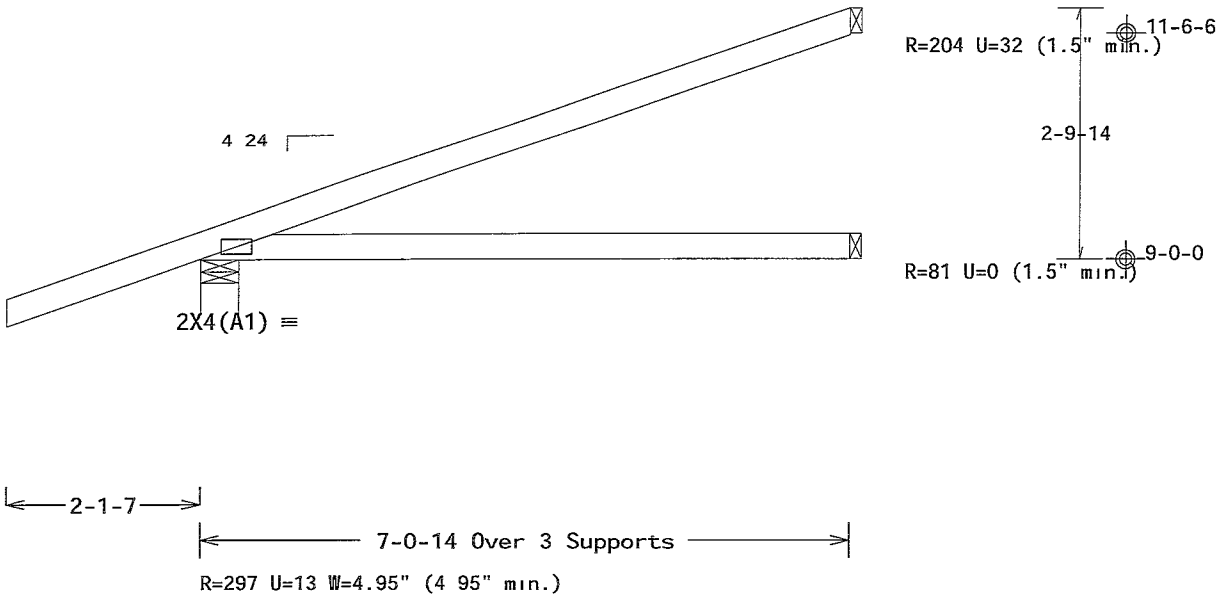
Wind loads and reactions based on MWFRS.

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

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf GCpi(+/-)=0.18

Hipjack supports 5-0-0 setback jacks with no webs.

The overall height of this truss excluding overhang is 2-9-14.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.0[illegible]2E FLEMING 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 E. FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 86840
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308014
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384570
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

11/04/2013

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - J1)

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

Bottom chord checked for 10.00 psf non-concurrent live load.

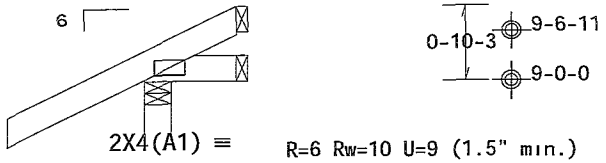
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

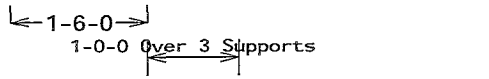
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf GCpi(+/-)=0 18

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

The overall height of this truss excluding overhang is 0-10-3.

R=-55 Rw=16 U=39 (1.5" min.)





R=245 U=22 W=3.5" (3.5" min)
RL=20

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.06 A QTY 4 FL/-/1/-/-/R/- Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 86841
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308015
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384576
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - J2)

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

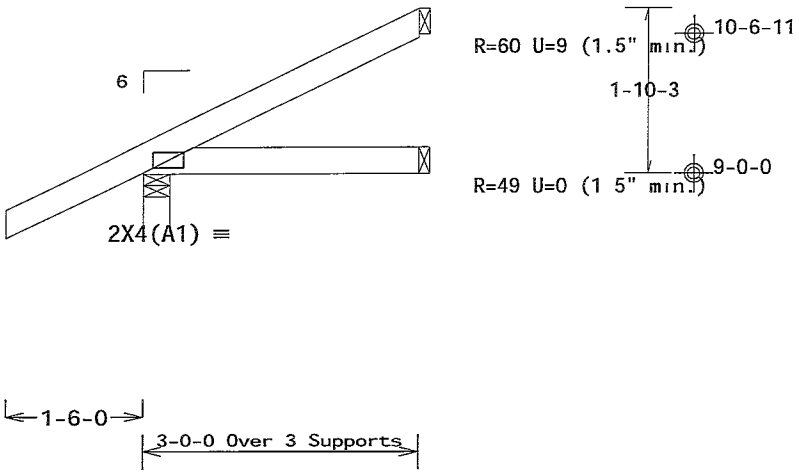
Bottom chord checked for 10.00 psf non-concurrent live load.

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

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, 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 1-10-3.



Design Crit· FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.03-07-14 QTY:4 FL/-/1/-/-/R/- Scale =.5"/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-- 86842
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308016
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384574
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - J3)

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

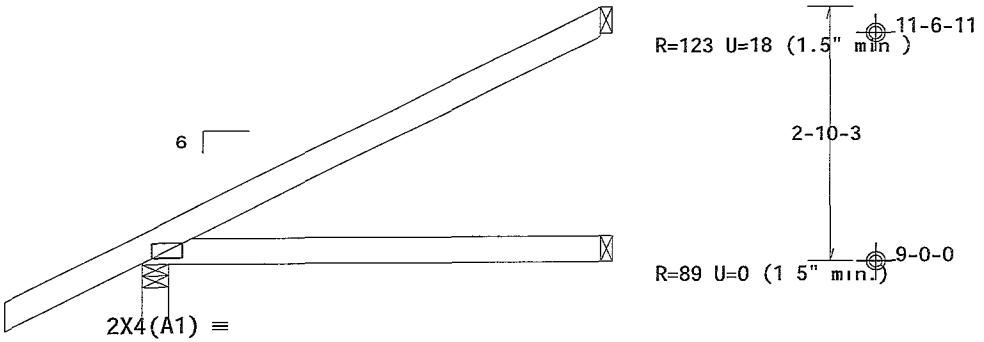
Bottom chord checked for 10.00 psf non-concurrent live load.

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

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 4.50 ft from roof edge, RISK CAT II, EXP B, 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 2-10-3.



Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.03 | 14 | QTY:5 | FL/-/1/-/-/R/- | Scale =.5"/Ft.

ALPINE
ITW Building Components Group Inc.
Orlando FL, 32837
FL COA #0278

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER

TC LL	20.0 PSF	REF	R215-- 86843
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308022
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384572
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

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

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - K)

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

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

Bottom chord checked for 10.00 psf non-concurrent live load.

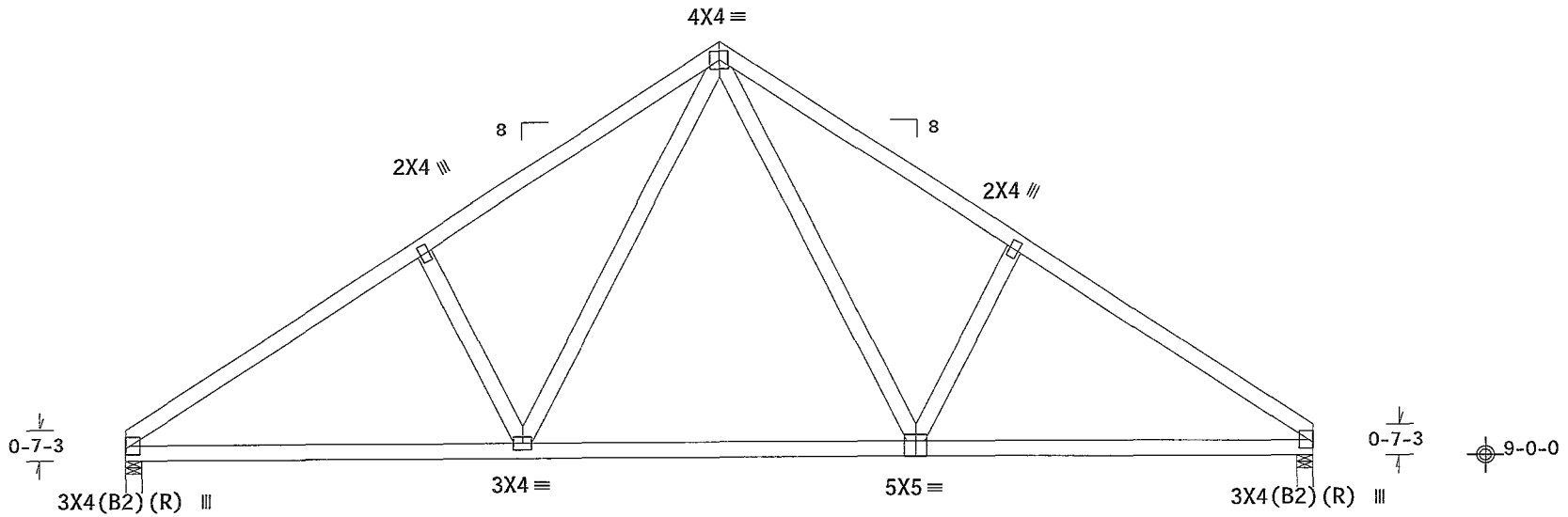
The overall height of this truss excluding overhang is 7-11-3.

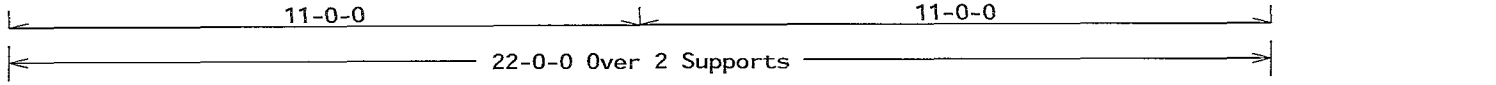
120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. GCpi(+/-)=0.18

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.

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





R=948 U=0 W=3 5" (3.5" min.)
RL=117/-117

R=949 U=0 W=3 5" (3.5" min.)

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.02-0205-14 | QTY 4 | FL/-/1/-/-/R/- | Scale =.3125"/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 prov de 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-- 86844
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308017
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384563
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - K1)

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

Truss passed check for 20 psf additional bottom chord live load in areas with 42"-high x 24"-wide clearance.

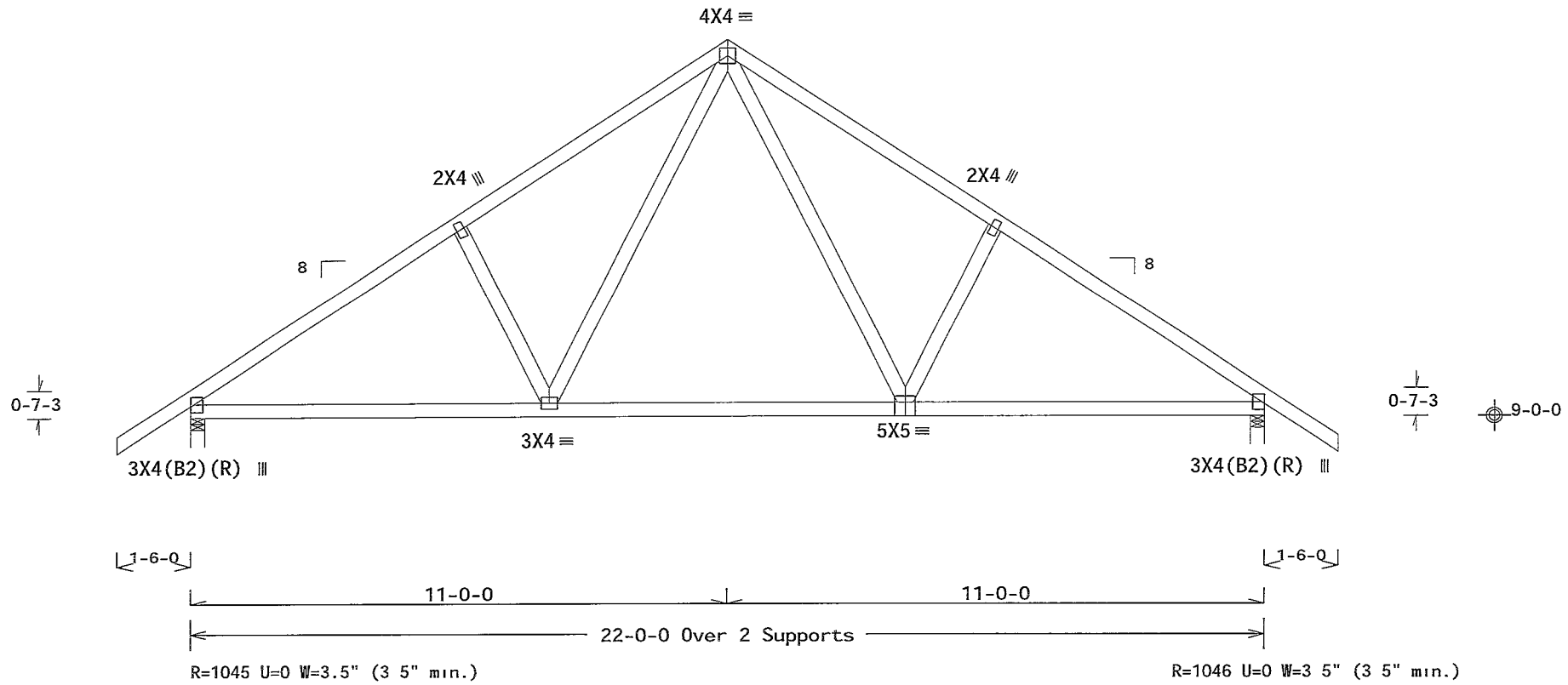
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 7-11-3.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, 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.



Design Crit FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.0[illegible] QTY:7 FL/-/1/-/-/R/- Scale =.3125"/Ft.

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

WARNING READ AND FOLLOW ALL NOTES ON THIS SHEET!
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Trusses require extreme care in fabricating handling shipping installing and bracing Refer to and follow the latest edition of BCSI (Building Component Safety Informat on 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 web shall have bracing nstalled 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-- 86845
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308018
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384560
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - K2)

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

See DWGS A12015ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.

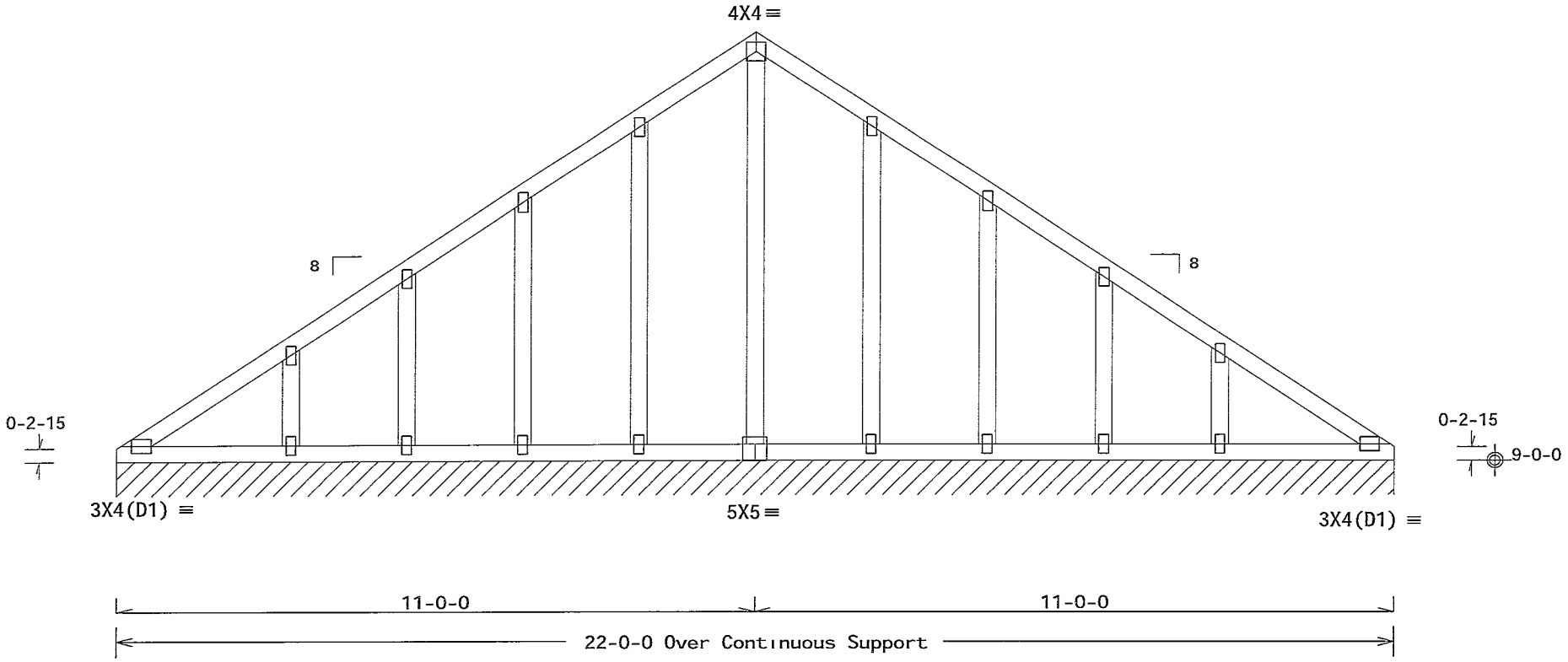
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 7-6-15.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, 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



R=80 PLF U=0 PLF W=22-0-0
RL=5/-5 PLF

Note: All Plates Are 2X4 Except As Shown.

Design Crit. FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.03.0325.14 | QTY:1 | FL/-/1/-/-/R/- | Scale =.375"/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-- 86846
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308019
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384551
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - M1)

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

See DWGS A12015ENC100212, GBLLETIN0212, & GABRST100212 for more requirements.

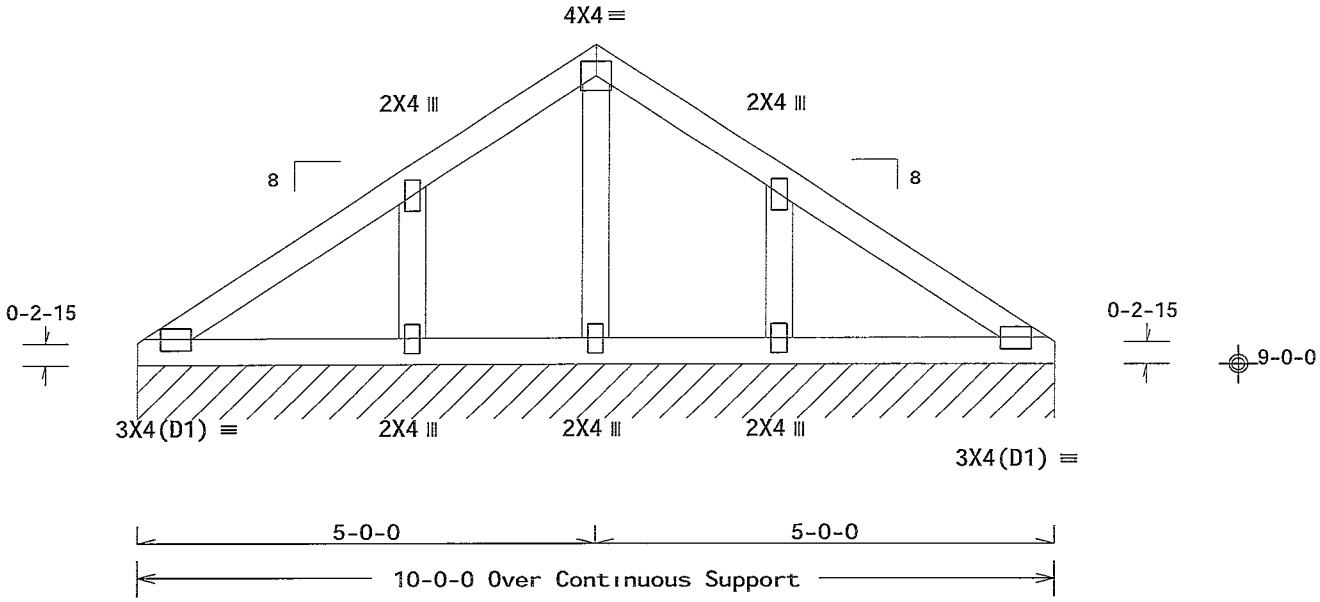
Bottom chord checked for 10.00 psf non-concurrent live load.

The overall height of this truss excluding overhang is 3-6-15.

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, 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.



R=79 PLF U=0 PLF W=10-0-0
RL=5/-5 PLF

Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave | FT/RT=20%(0%)/10(0) | 12.03.03.0225.14 | QTY·1 | 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-- 86847
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308020
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384565
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

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

(8407-/TRADEMARK/ HENTZELMAN /Contractor -- LAKE CITY, FL - M)

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

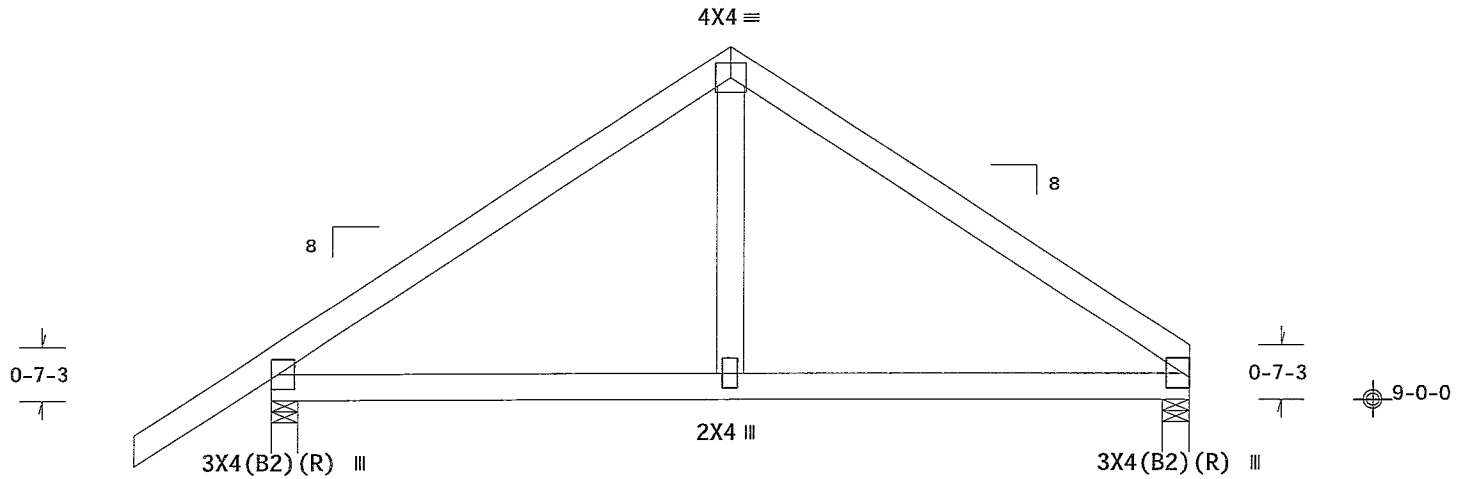
Bottom chord checked for 10.00 psf non-concurrent live load.

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

120 mph wind, 15.00 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, 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 3-11-3.



Design Crit: FBC2010Res/TPI-2007(STD)

PLT TYP. Wave FT/RT=20%(0%)/10(0) 12.03.03.0005.14 QTY:1 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-- 86848
TC DL	10.0 PSF	DATE	11/04/13
BC DL	10.0 PSF	DRW	HCUSR215 13308021
BC LL	0.0 PSF	HC-ENG	KD/DF
TOT.LD.	40.0 PSF	SEQN-	384603
DUR.FAC.	1.25	FROM	CDM
SPACING	24.0"	JREF-	1V0Z215_Z01

Gable Stud Reinforcement Detail

ASCE 7-10: 120 mph Wind Speed, 15' Mean Height, Enclosed, Exposure C, Kzt = 1.00

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

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A

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

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B.

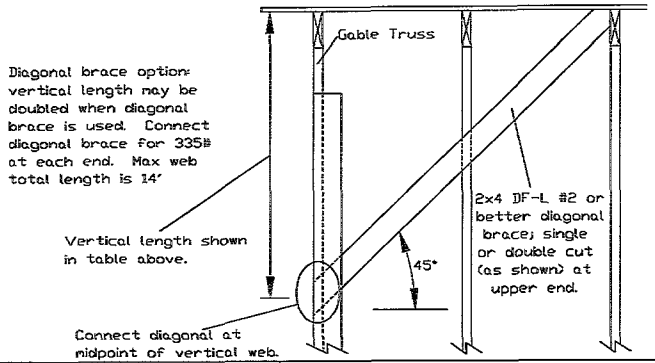
Hem-Fir
#1 & Btr
#1

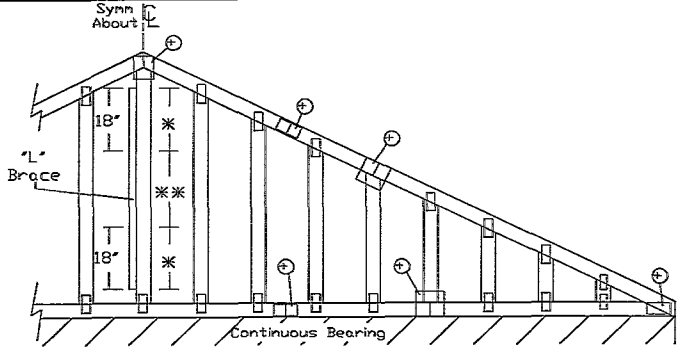
Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#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 35 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"	2X4
Greater than 11' 6"	2.5X4

+ 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.

th City, MO 63045

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ITWBCG: www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.org; ICC: www.iccsafe.org

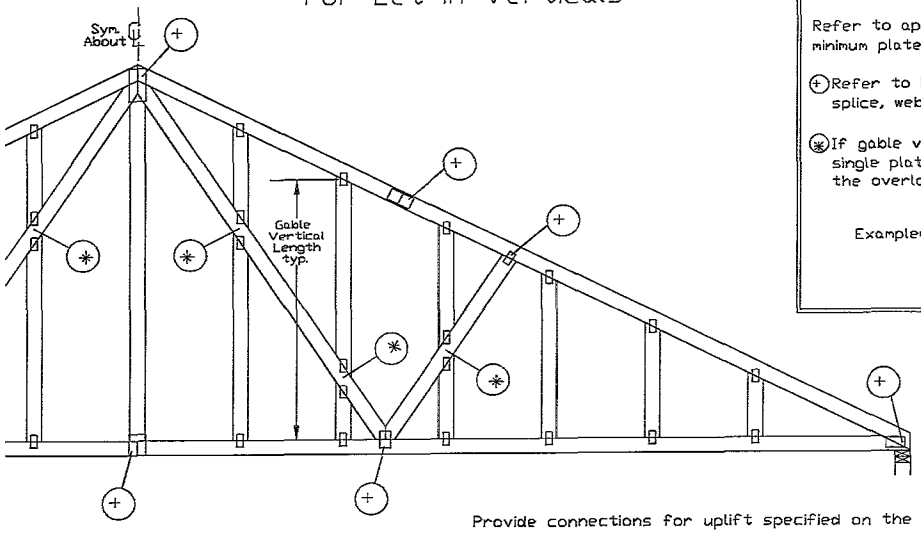
DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 14 '13

MAX TOT LD 60 PSF

MAX SPACING 24 0"

REF	ASCE7-10-GAB12015
DATE	2/14/12
DRWG	A12015ENC100212

Gable Detail
For Let-in Verticals



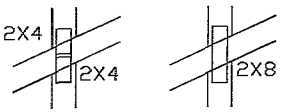
Gable Truss Plate Sizes

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

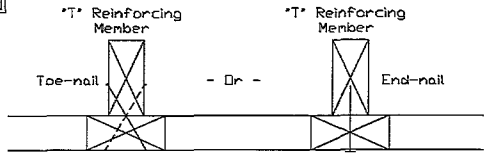
(+) Refer to Engineered truss design for peak, splice, web, and heel plates.

(*) 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

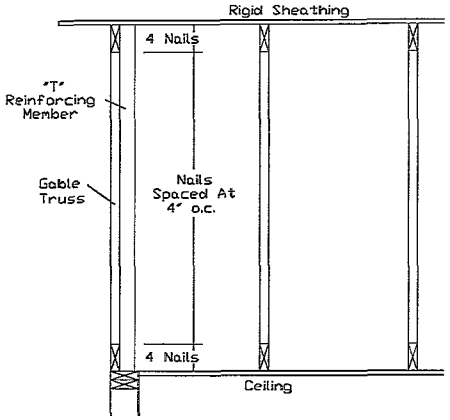


Provide connections for uplift specified on the engineered truss design.

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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Building Components Group Inc.

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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
04 '13

MAX TOT LD 60 PSF
DUR FAC ANY
MAX SPACING 24 0"

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

ASCE 7-10: 120 mph, 30' Mean Height, Closed, Exposure C
Common Residential Gable End Wind Bracing Requirements - Stiffeners

120 mph, 30ft Mean Hgt, ASCE 7-10, Enclosed, Exp C, or
100 mph, 30ft Mean Hgt, ASCE 7-10, Enclosed, Exp D, or
100 mph, 30ft Mean Hgt, ASCE 7-10, Part Enclosed, Exp C,
Kzt = 1.00, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf.

Lateral chord bracing requirements
Top: Continuous roof sheathing
Bot Continuous ceiling diaphragm

See Engineer's sealed design referencing this detail for lumber, plates, and other information not shown on this detail.

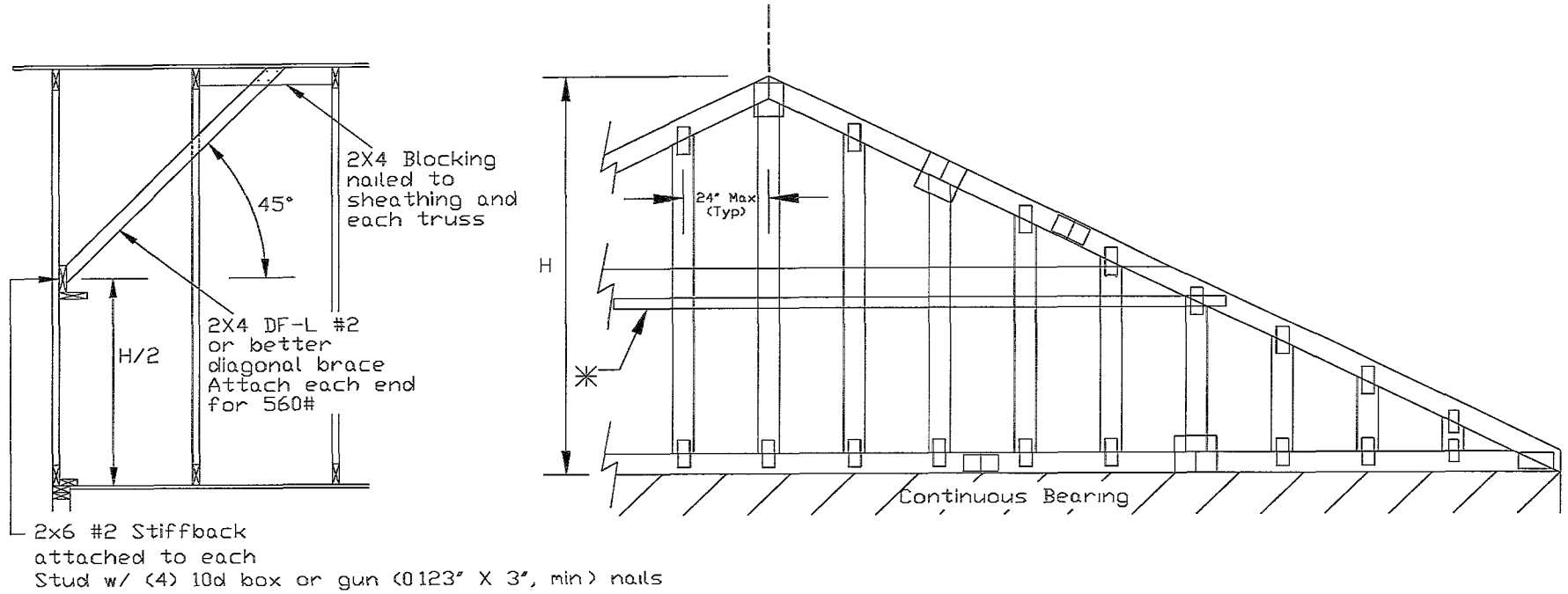
Nails 10d box or gun (0.128"x3",min) nails

H Less than 4'6" - no stud bracing required

H Greater than 4'6" to 7'6" in length
provide a 2x6 stiffback at mid-height and brace stiffback to roof diaphragm every 6'0" (see detail below or refer to DRWG A12030ENC100212)

H Greater than 7'6" to 12'0" max
provide a 2x6 stiffback at mid-height and brace to roof diaphragm every 4'0" (see detail below or refer to DRWG A12030ENC100212)

✳ Optional 2x L-reinforcement attached to stiffback with 10d box or gun (0.128" x 3", min) nails @ 6" oc



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ITWBCG: www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.org; ICC: www.iccsafe.org

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
Nov 4, '13

MAX TOT LD 60 PSF

MAX SPACING

REF	GE WHALER
DATE	2/14/12
DRWG	GABRST100212

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

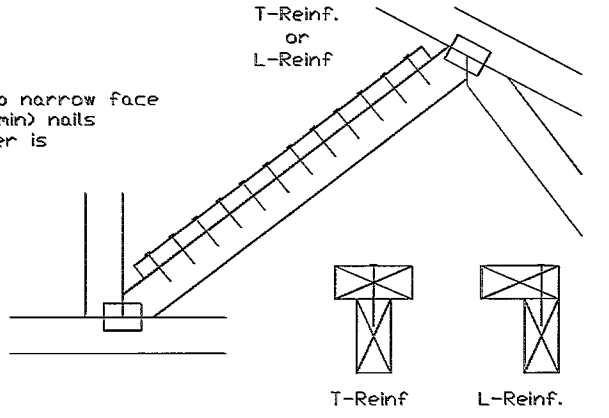
Web Member Size	Specified CLR Restraint	Alternative Reinforecement T- or L- Reinf	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(※)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(※)

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.

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

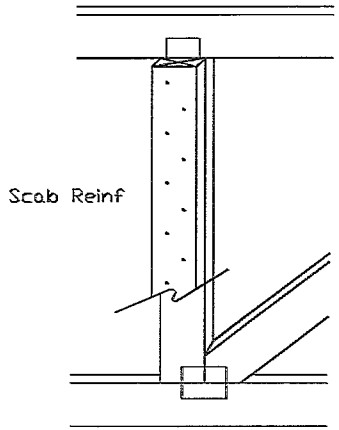
T-Reinforcement or L-Reinforcement:

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



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DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
NOV 04 '13

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: 120 mph Wind Speed, 30' Mean Height, Enclosed, Exposure C, Kzt = 1.00

Or: 100 Mph Wind Speed, 30' Mean Height, Partially Enclosed, Exposure C, Kzt = 1.00
Or: 100 mph Wind Speed, 30' Mean Height, Enclosed, Exposure D, Kzt = 1.00

Max Gable Vertical Length

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

Bracing Group Species and Grades:

Group A

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

Hem-Fir	
#2	Stud
#3	Standard

Douglas Fir-Larch
#3
Stud
Standard

Southern Pine***
#3
Stud
Standard

Group B

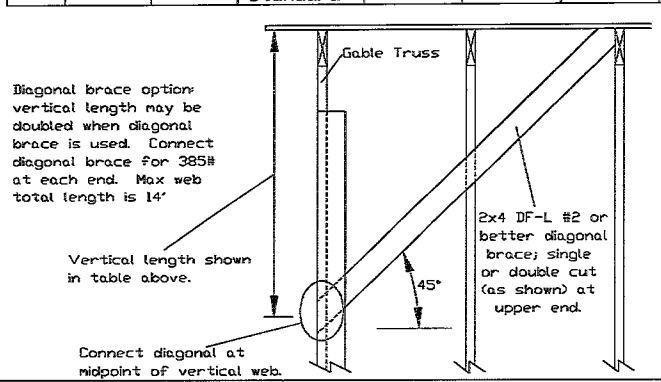
Hem-Fir
#1 & Btr
#1

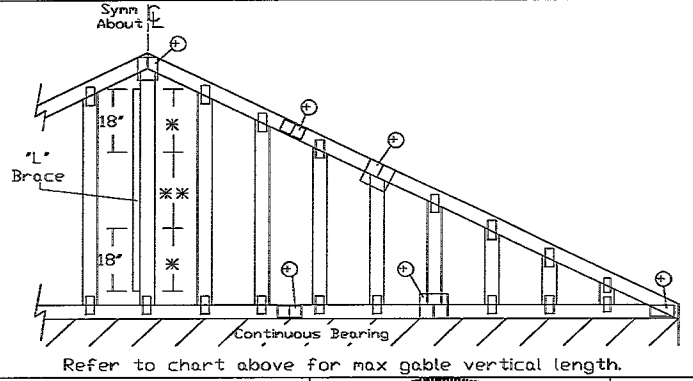
Douglas Fir-Larch
#1
#2

Southern Pine***
#1
#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 70 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"	2X4
Greater than 11' 6"	2.5X4

+ 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.

rth City, MO 63045

WARNING READ AND FOLLOW ALL NOTES ON THIS DRAWING!
IMPORTANT FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE 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 lateral restraint of webs shall have bracing installed per BCSI sections B3, B7 or B10, as applicable. 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.

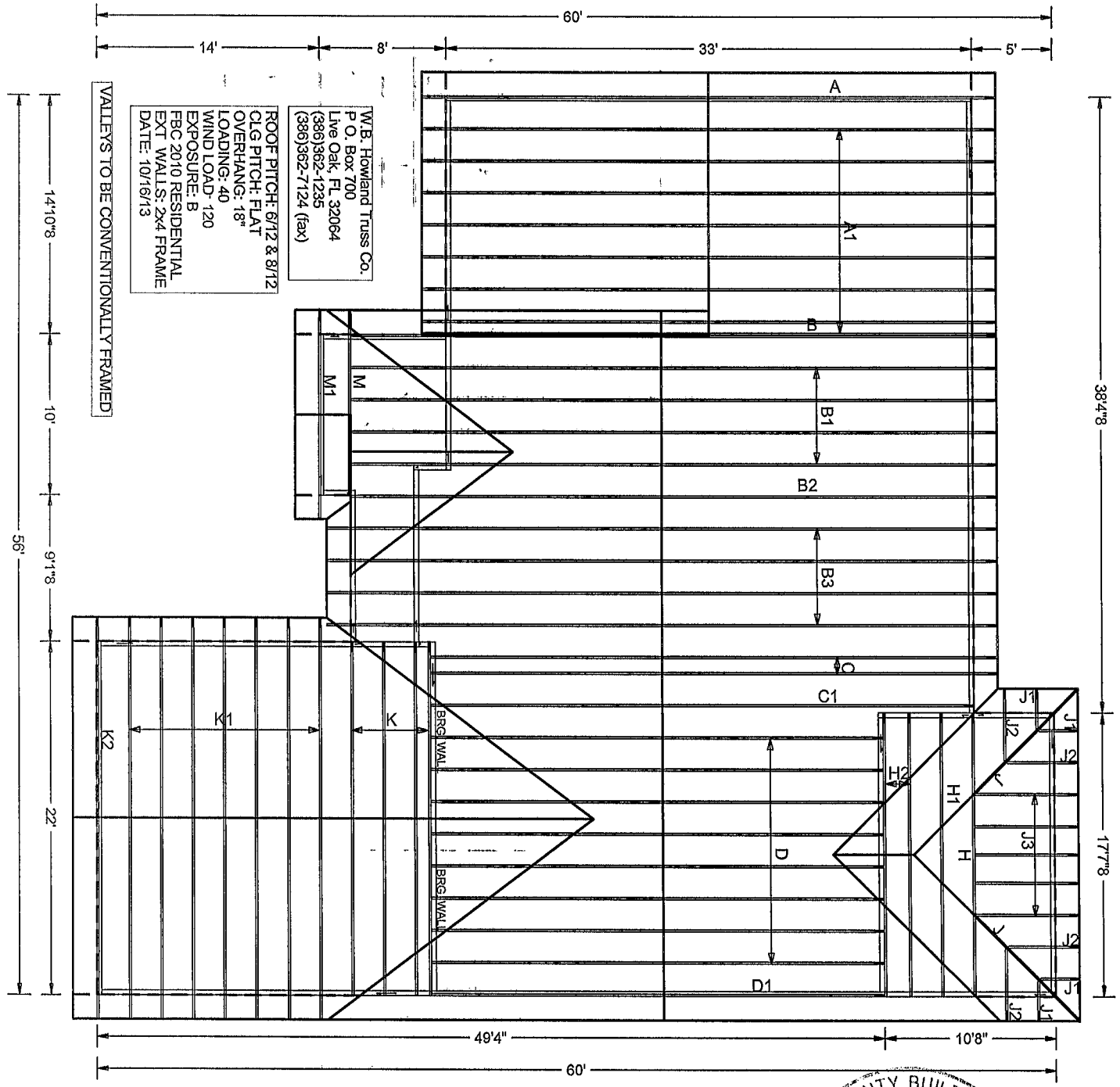
ITW Building Components Group Inc. shall not be responsible for any deviation from this drawing, any failure to build the truss in conformance with ANSI/TPI 1, or for handling, shipping, installation & bracing of trusses. A seal on this drawing or cover page listing this drawing, indicates acceptance of professional engineering responsibility solely for the design shown. The suitability and use of this drawing 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 and these web sites:
ITWBCG: www.itwbcg.com; TPI: www.tpinst.org; WTCA: www.sbcindustry.org; ICC: www.iccsafe.org

DOUGLAS FLEMING LICENSE No. 66648 STATE OF FLORIDA PROFESSIONAL ENGINEER
04 '13

MAX. TOT LD. 60 PSF

MAX SPACING 24 0"

REF	ASCE7-10-GAB12030
DATE	2/14/12
DRWG	A12030ENC100212



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