

# Alpine, an ITW Company

2400 Lake Orange Drive suite 150 Orlando FL 32837  
Mississippi Engineering Certificate of Authorization Number: E-00000581  
Page 1 of 1 Document ID:1VB77634Z0104103610

Truss Fabricator: Evergreen Lumber & Truss, Inc.  
Job Identification: MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS  
Truss Count: 17  
Model Code: IBC  
Truss Criteria: IBC2012/TPI -2007(STD)  
Engineering Software: Alpine Software, Version 12.03.  
Minimum Design Loads: Roof - 40.0 PSF @ 1.25 Duration  
Floor - N/A  
Wind - 110 MPH ASCE 7-10 -Closed

## Notes:

11/04/2014

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

-Truss Design Engineer-  
Doug Fleming

2. As shown on attached drawings; the drawing number is preceded by: HCUSR7634

2400 Lake Orange Dr, Suite 150  
Orlando FL, 32837

Details: BRCLBSUB-

#	Ref	Description	Drawing#	Date
1	23288--HJ1		14308017	11/04/14
2	23289--EJ1		14308015	11/04/14
3	23290--CJ3		14308007	11/04/14
4	23291--CJ2		14308004	11/04/14
5	23292--CJ1		14308009	11/04/14
6	23293--A1		14308012	11/04/14
7	23294--A2		14308002	11/04/14
8	23295--A3		14308008	11/04/14
9	23296--A4		14308014	11/04/14
10	23297--A5		14308005	11/04/14
11	23298--A6		14308013	11/04/14
12	23299--A7		14308003	11/04/14
13	23300--A8		14308016	11/04/14
14	23301--A9		14308010	11/04/14
15	23302--A10		14308006	11/04/14
16	23303--A11		14308011	11/04/14
17	23304--A12		14308001	11/04/14

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - HJ1)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #2-13B  
 Webs 2x4 SP #3-13B

110 mph wind, 16.27 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Wind loads and reactions based on MWFRS.

The following members need concentrated loads at the heel: 3-0-0 span/setback member on the 1-0-0 cant side requires 10 lbs and the 3-0-0 span/setback member on the 1-0-0 cant side requires 10 lbs.

Left cantilever is exposed to wind

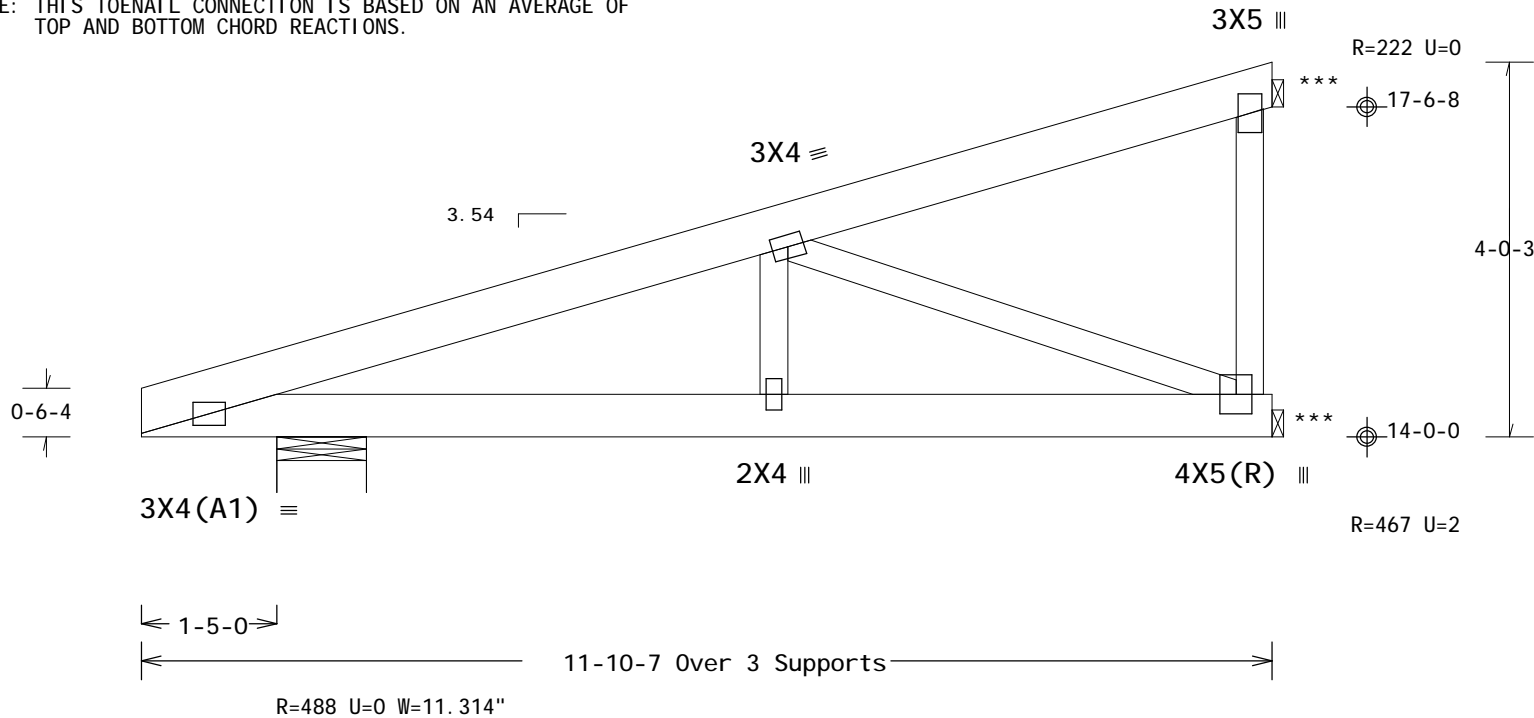
Hi jack supports 8-4-12 setback jacks with 1-0-0 cantilever one face; 1-0-0 cantilever opposite face.

Sub-fascia beam assumptions: 3-0-0 sub-fascia beam on the 1-0-0 cantilever side. 3-0-0 sub-fascia beam on the 1-0-0 cantilever side.

\*\*\*Provide (3) 16d common (0.162"x3.5") nails toe-nailed at top chord.  
 Provide (3) 16d common (0.162"x3.5") nails toe-nailed at bottom chord.

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

NOTE: THIS TOENAIL CONNECTION IS BASED ON AN AVERAGE OF TOP AND BOTTOM CHORD REACTIONS.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.05.0416.16

QTY: 4 MS/-/1/-/-/R/-

Scale = .5"/Ft.

PLT TYP. Wave\R



2400 Lake Orange Dr., Suite 150  
 Orlando, FL 32837  
 MS COA #E-00000581

**\*\*WARNING! \*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING**  
**\*\*IMPORTANT\*\* FURNISH THIS DRAWING TO ALL CONTRACTORS INCLUDING THE INSTALLERS.**  
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 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23288
DATE	11/04/14
DRW	HCUSR7634 14308017
HC-ENG	JB/DF
SEQN-	556484
FROM	SR
JREF-	1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - EJ1)

Top chord 2x6 SP #2-13B  
Bot chord 2x6 SP #2-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Left cantilever is exposed to wind

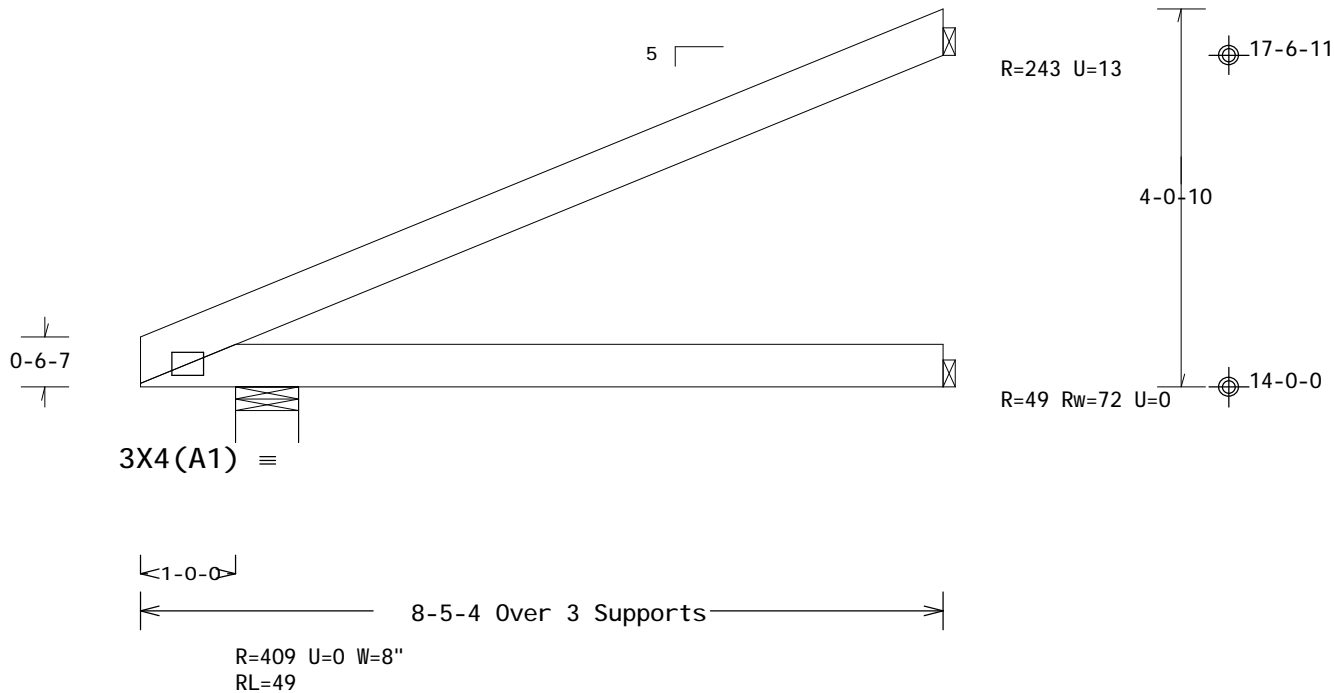
MWFRS loads based on trusses located at least 8.15 ft. from roof edge.

110 mph wind, 16.30 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



Design Crit: IBC2012/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.05.0416.16

QTY: 18 MS/-/1/-/-/R/-

Scale = .5"/Ft.

PLT TYP. Wave\R



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MS COA #E-0000581

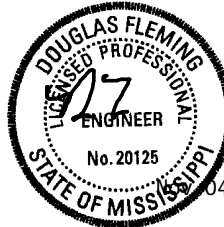
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TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23289
DATE	11/04/14
DRW	HCUSR7634 14308015
HC-ENG	JB/DF
SEQN-	556535
FROM	SR
JREF-	1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - CJ3)

Top chord 2x6 SP #2-13B  
Bot chord 2x6 SP #2-13B

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Special Loads

----- (Lumber Dur. Fac. =1.25 / Plate Dur. Fac. =1.25)  
TC- From 62 plf at 0.00 to 62 plf at 6.91  
BC- From 20 plf at 0.00 to 20 plf at 6.91  
TC- 10.00 lb Conc. Load at 0.00

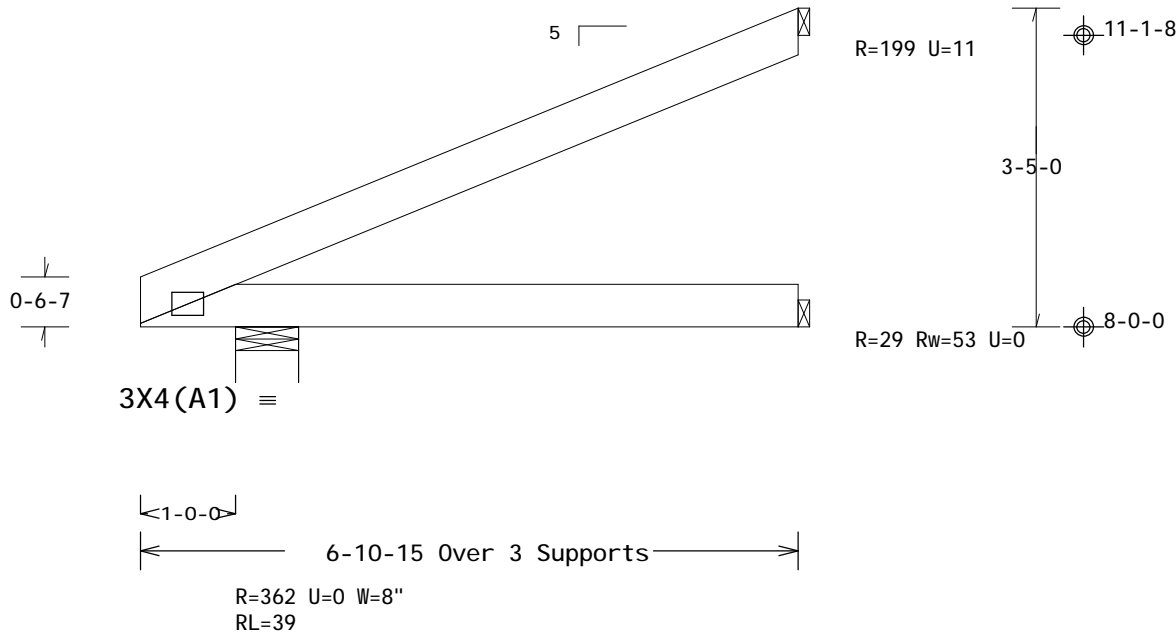
Wind loads and reactions based on MWFRS.

110 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=6.0 psf, wind BC DL=6.0 psf.

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.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



Design Crit: IBC2012/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.05.0416.16

QTY: 8

MS/-/1/-/-/R/-

Scale = .5"/Ft.

PLT TYP. Wave\R



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MS COA #E-00000581

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TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23290
DATE	11/04/14
DRW	HCUSR7634 14308007
HC-ENG	JB/DF
SEQN-	556488
FROM	SR
JREF-	1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - CJ2)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #2-13B

Lumber grades designated with "13B" use design values approved  
 1/30/2013 by ALSC

**Special Loads**

----- (Lumber Dur. Fac. =1.25 / Plate Dur. Fac. =1.25)  
 TC- From 62 plf at 0.00 to 62 plf at 4.91  
 BC- From 20 plf at 0.00 to 20 plf at 4.91  
 TC- 10.00 lb Conc. Load at 0.00

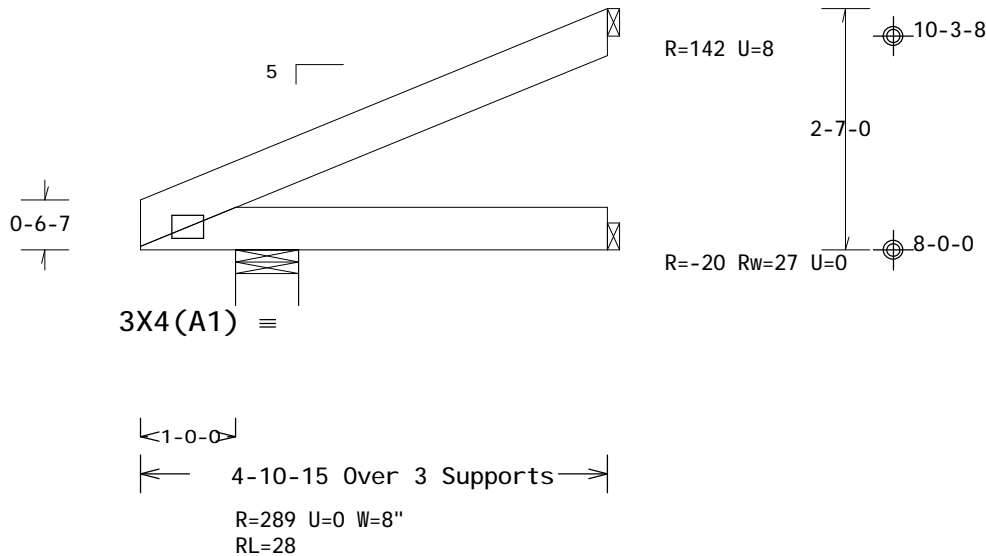
Wind loads and reactions based on MWFRS with additional C&C member  
 design.

110 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=6.0 psf,  
 wind BC DL=6.0 psf.

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.

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
 Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.05.0416.16 QTY: 8 MS/-/1/-/-/R/- Scale =.5"/Ft.

PLT TYP. Wave\R

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04 '14

TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23291
DATE	11/04/14
DRW	HCUSR7634 14308004
HC-ENG	JB/DF
SEQN-	556486
FROM	SR
JREF-	1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - CJ1)

Top chord 2x6 SP #2-13B  
Bot chord 2x6 SP #2-13B

110 mph wind, 15.12 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

Left cantilever is exposed to wind

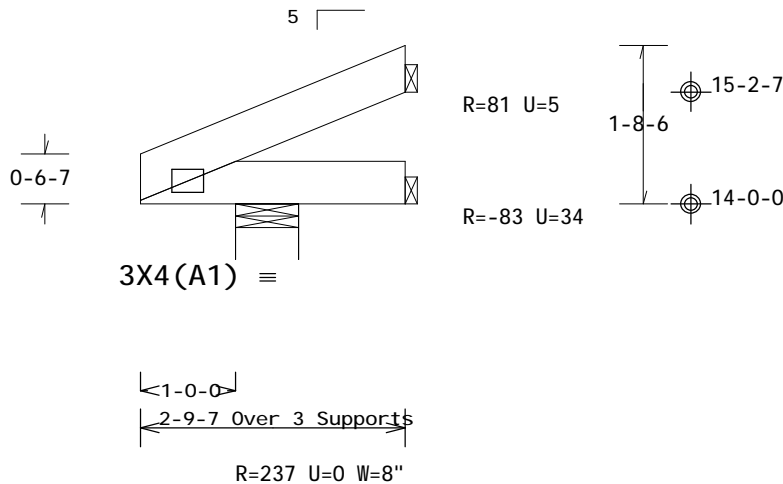
Special Loads

----- (Lumber Dur. Fac. =1.25 / Plate Dur. Fac. =1.25)  
TC- From 62 plf at 0.00 to 62 plf at 2.79  
BC- From 20 plf at 0.00 to 20 plf at 2.70  
TC- 10.00 lb Conc. Load at 0.00

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

Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Top chord.  
Provide ( 2 ) 16d common nails(0.162"x3.5"), toe nailed at Bot chord.

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



Design Crit: IBC2012/TPI-2007(STD)  
FT/RT=20%(0%)/10(0)

12.03.05.0416.16 QTY: 8 MS/-/1/-/-/R/- Scale = .5"/Ft.

PLT TYP. Wave\R



2400 Lake Orange Dr., Suite 150  
Orlando, FL 32837  
MS COA #E-00000581

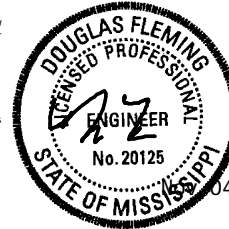
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TC LL	20.0 PSF	REF R7634- 23292
TC DL	10.0 PSF	DATE 11/04/14
BC DL	10.0 PSF	DRW HCUSR7634 14308009
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 556476
DUR. FAC.	1.25	FROM SR
SPACING	24.0"	JREF- 1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A1)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #2-13B  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & SRB grade or better, attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.

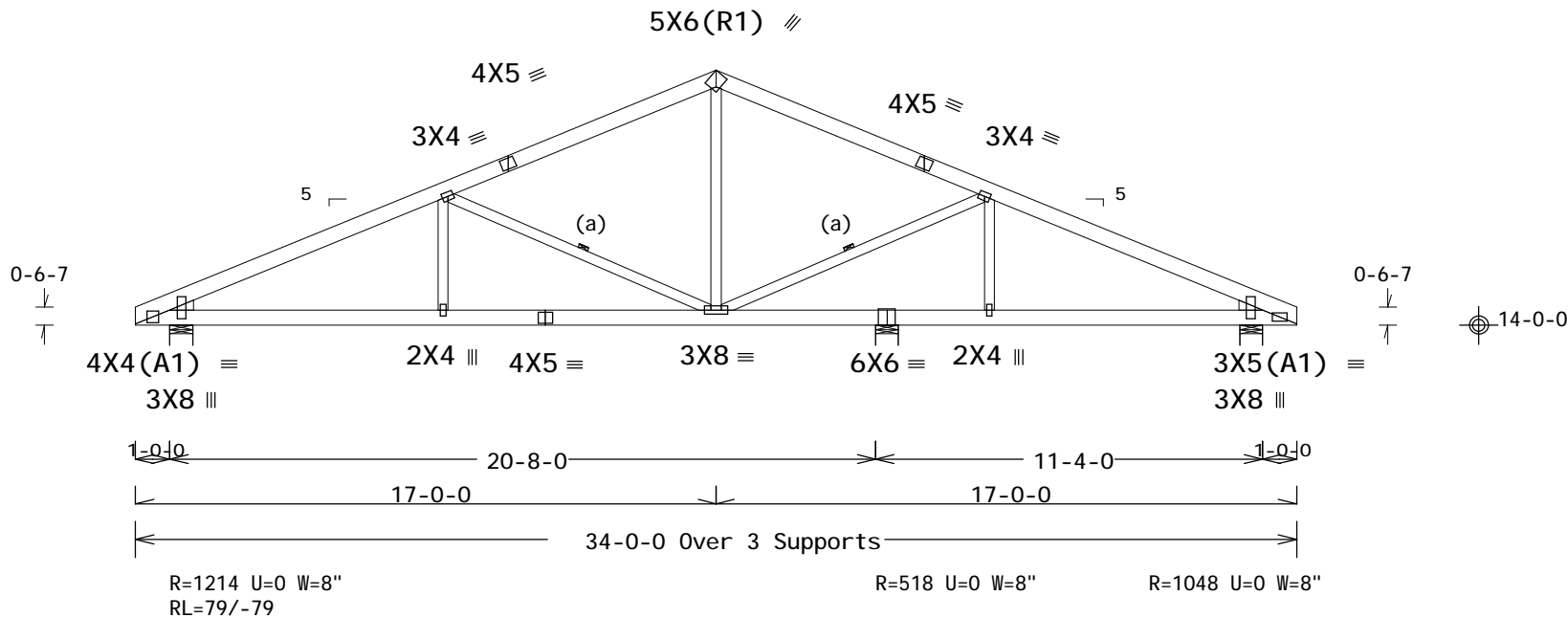
110 mph wind, 18.08 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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

Left and right cantilevers are 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 18.08 ft. from roof edge.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.05.0416.16

QTY: 42 MS/-/1/-/-/R/-

Scale = .1875"/Ft.

PLT TYP. Wave\R



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 MS COA #E-00000581

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TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23293
DATE	11/04/14
DRW	HCUSR7634 14308012
HC-ENG	JB/DF
SEQN-	556493
FROM	SR
JREF-	1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A2)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #2-13B  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & SRB grade or better, attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.

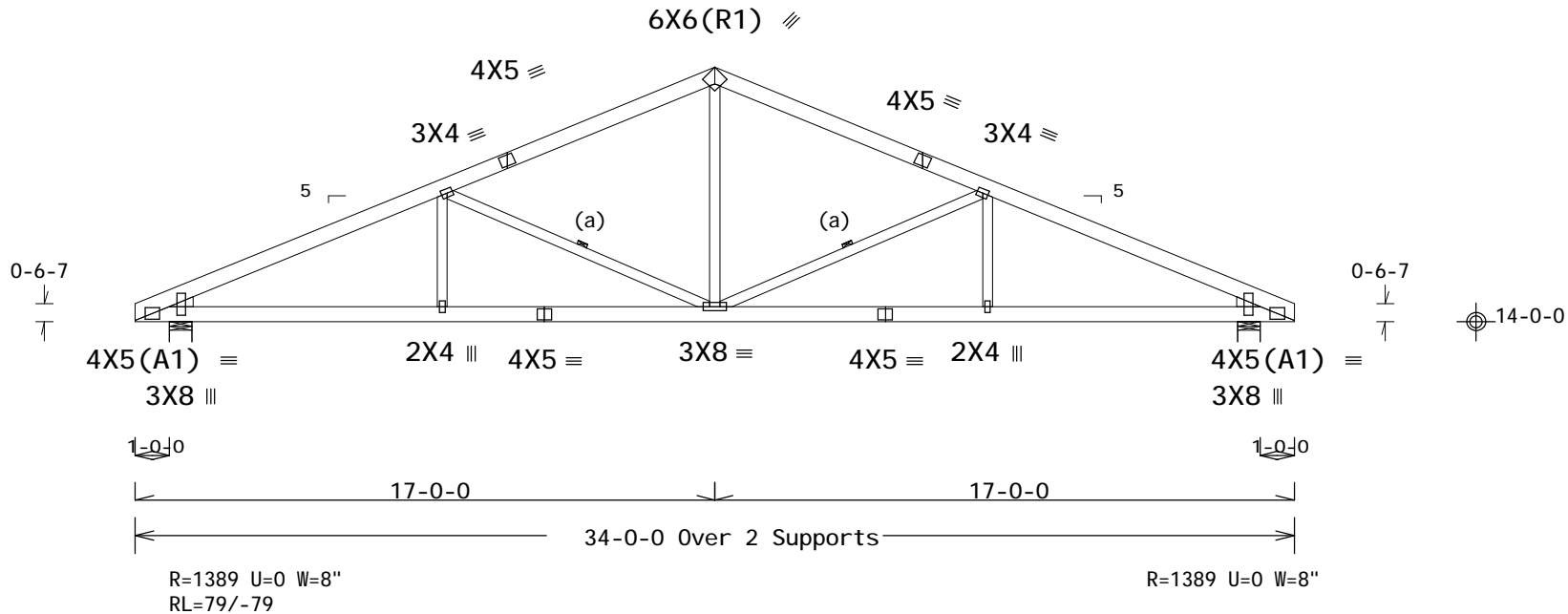
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Wind loads and reactions based on MWFRS with additional C&C member design.

Left and right cantilevers are 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 18.08 ft. from roof edge.



R=1389 U=0 W=8"  
 RL=79/-79

R=1389 U=0 W=8"

Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.05.0416.16

QTY: 4

MS/-/1/-/-/R/-

Scale = .1875"/Ft.

PLT TYP. Wave\R



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 MS COA #E-00000581

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For more information see this job's general notes page and these web sites:  
 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23294
DATE	11/04/14
DRW	HCUSR7634 14308002
HC-ENG	JB/DF
SEQN-	556504
FROM	SR
JREF-	1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A3)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #1-13B :B2 2x6 SP #2-13B:  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & SRB grade or better, attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" 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 8.98 ft. from roof edge.

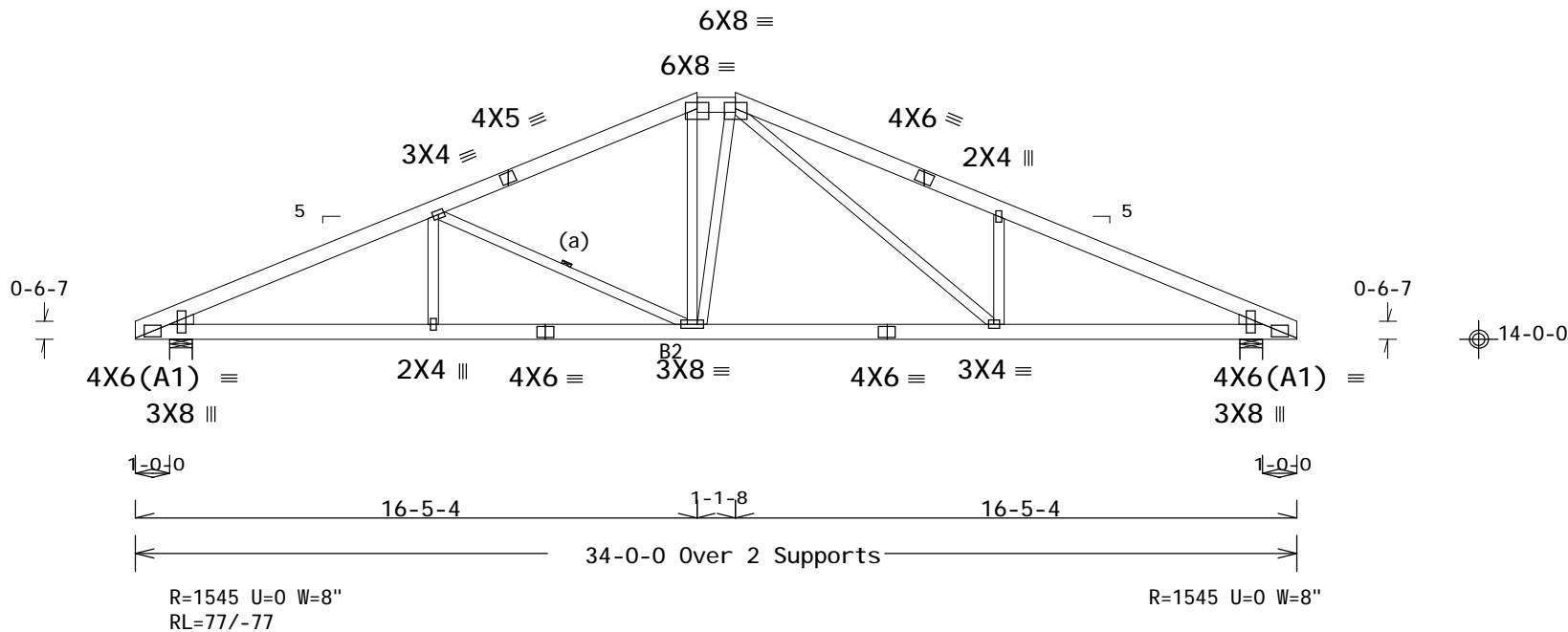
110 mph wind, 17.96 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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

Left and right cantilevers are exposed to wind

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

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.



R=1545 U=0 W=8"  
 RL=77/-77

R=1545 U=0 W=8"

Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.05.0416.16

QTY: 1

MS/-/1/-/-/R/-

Scale = .1875"/Ft.

PLT TYP. Wave\R

2400 Lake Orange Dr., Suite 150  
 Orlando, FL 32837  
 MS COA #E-00000581

**\*\*WARNING! \*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
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TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23295
DATE	11/04/14
DRW	HCUSR7634 14308008
HC-ENG	JB/DF
SEQN-	556506
FROM	SR
JREF-	1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A4)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #1-13B :B1 2x6 SP #2-13B:  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & SRB grade or better, attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" 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 8.98 ft. from roof edge.

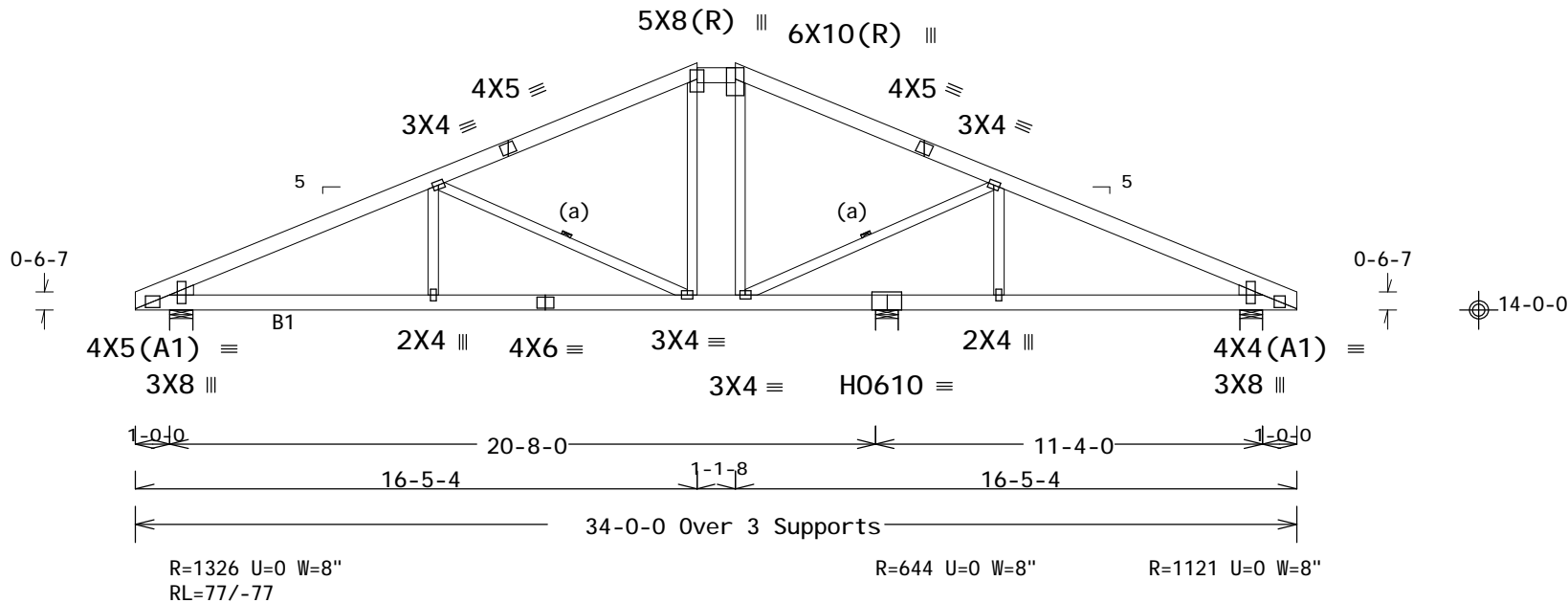
110 mph wind, 17.96 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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

Left and right cantilevers are exposed to wind

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

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(O)

PLT TYP. 20 Gauge HS, WaveXR

12.03.05.0416.16

QTY: 1

MS/-/1/-/-/R/-

Scale = .1875"/Ft.



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 Orlando, FL 32837  
 MS COA #E-00000581

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 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R7634- 23296
TC DL	10.0 PSF	DATE 11/04/14
BC DL	10.0 PSF	DRW HCUSR7634 14308014
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 556501
DUR. FAC.	1.25	FROM SR
SPACING	24.0"	JREF- 1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A5)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #1-13B :B2 2x6 SP #2-13B:  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.

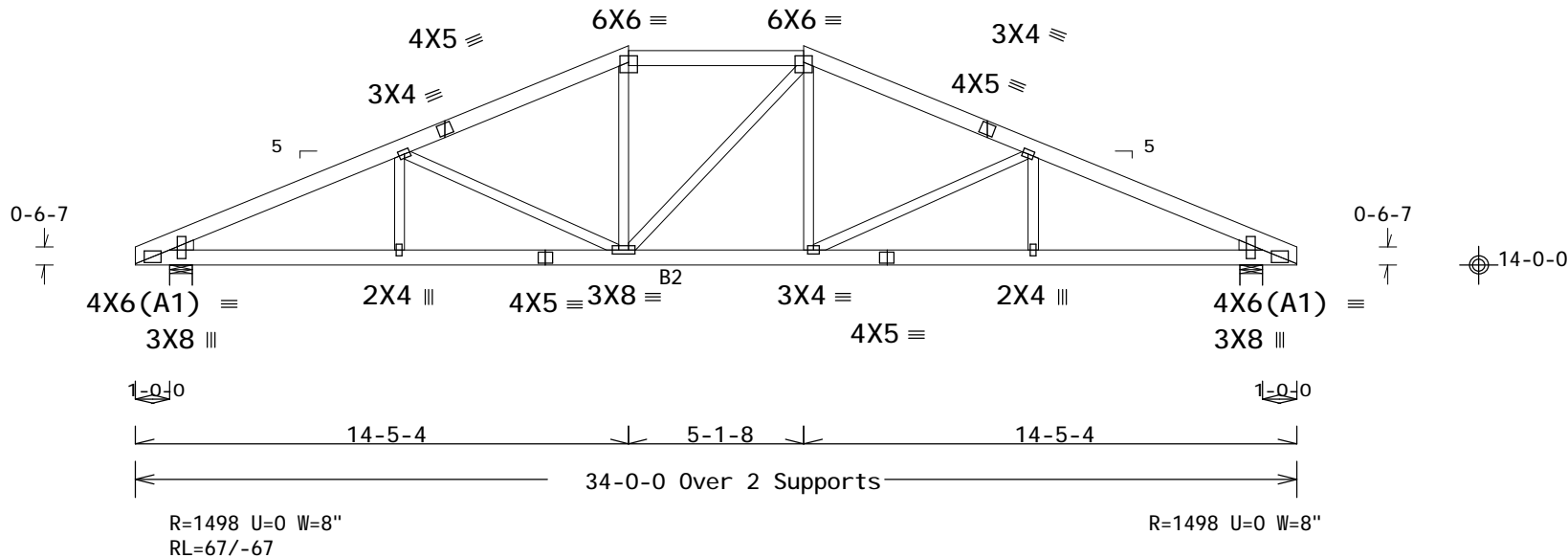
110 mph wind, 17.55 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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

Left and right cantilevers are 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 8.77 ft. from roof edge.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.05.0416.16 QTY: 1 MS/-/1/-/-/R/- Scale = .1875"/Ft.

PLT TYP. Wave\R

2400 Lake Orange Dr., Suite 150  
 Orlando, FL 32837  
 MS COA #E-00000581

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 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R7634- 23297
TC DL	10.0 PSF	DATE 11/04/14
BC DL	10.0 PSF	DRW HCUSR7634 14308005
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 556508
DUR. FAC.	1.25	FROM SR
SPACING	24.0"	JREF- 1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A6)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #1-13B :B1 2x6 SP 1950f-1.7E:  
 Webs 2x4 SP #3-13B

110 mph wind, 17.55 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=6.0 psf, wind BC DL=6.0 psf.

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

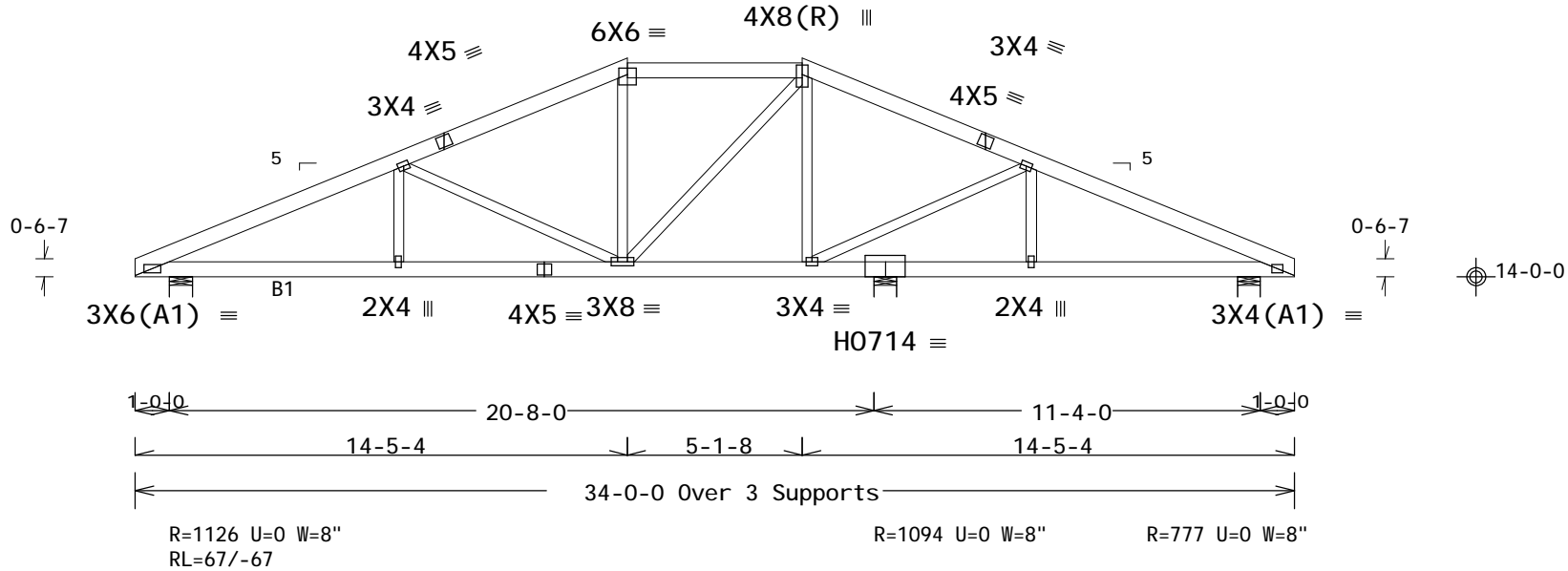
Left and right cantilevers are exposed to wind

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.

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.

MWFRS loads based on trusses located at least 8.77 ft. from roof edge.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

PLT TYP. 20 Gauge HS, WaveXR

12.03.05.0416.16

QTY: 1

MS/-/1/-/-/R/-

Scale = .1875"/Ft.



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 Orlando, FL 32837  
 MS COA #E-0000581

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 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R7634- 23298
TC DL	10.0 PSF	DATE 11/04/14
BC DL	10.0 PSF	DRW HCUSR7634 14308013
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 556525
DUR. FAC.	1.25	FROM SR
SPACING	24.0"	JREF- 1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A7)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #2-13B  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & SRB grade or better, attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" 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 8.56 ft. from roof edge.

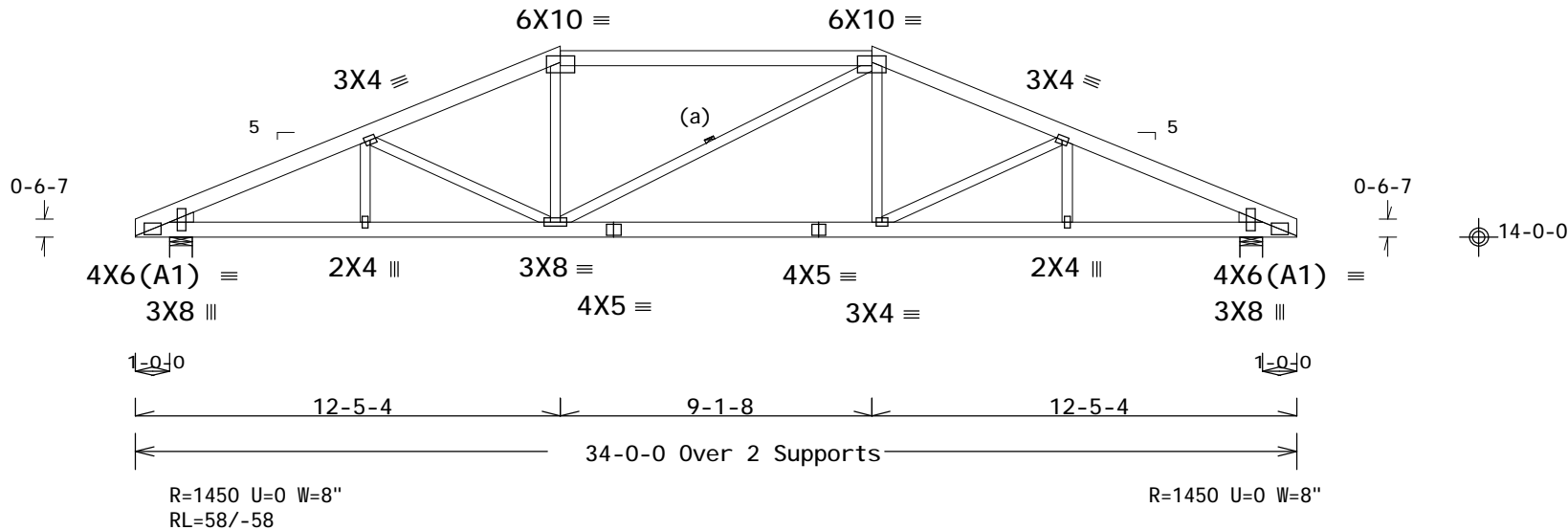
110 mph wind, 17.13 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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

Left and right cantilevers are exposed to wind

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

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(O)

12.03.05.0416.16 QTY: 1 MS/-/1/-/-/R/- Scale = .1875"/Ft.

PLT TYP. Wave\R



2400 Lake Orange Dr., Suite 150  
 Orlando, FL 32837  
 MS COA #E-00000581

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 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R7634- 23299
TC DL	10.0 PSF	DATE 11/04/14
BC DL	10.0 PSF	DRW HCUSR7634 14308003
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 556510
DUR. FAC.	1.25	FROM SR
SPACING	24.0"	JREF- 1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A8)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #2-13B  
 Webs 2x4 SP #3-13B

110 mph wind, 17.13 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=6.0 psf, wind BC DL=6.0 psf.

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

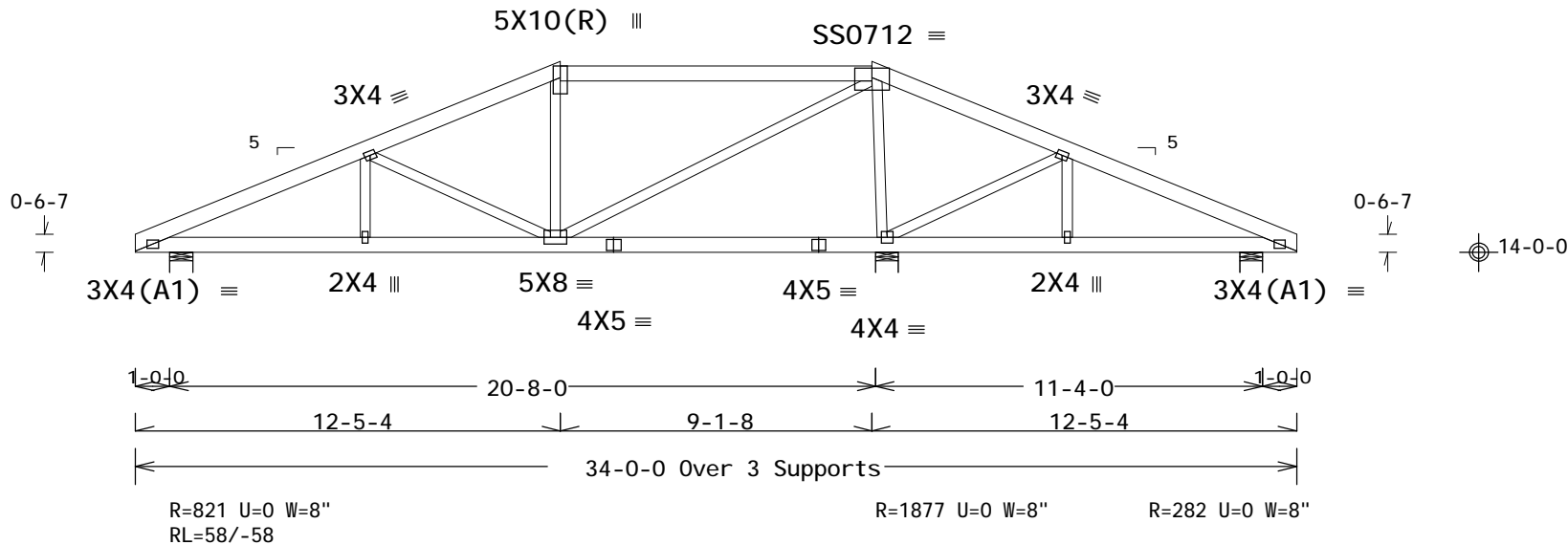
Left and right cantilevers are exposed to wind

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.

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.

MWFRS loads based on trusses located at least 8.56 ft. from roof edge.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

PLT TYP. 18 Gauge HS, WaveXR

12.03.05.0416.16

QTY: 1

MS/-/1/-/-/R/-

Scale = .1875"/Ft.



2400 Lake Orange Dr., Suite 150  
 Orlando, FL 32837  
 MS COA #E-0000581

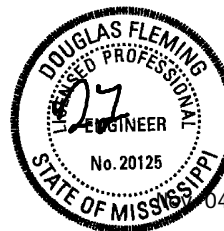
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TC LL	20.0 PSF	REF R7634- 23300
TC DL	10.0 PSF	DATE 11/04/14
BC DL	10.0 PSF	DRW HCUSR7634 14308016
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 556522
DUR. FAC.	1.25	FROM SR
SPACING	24.0"	JREF- 1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A9)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #2-13B  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

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

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.

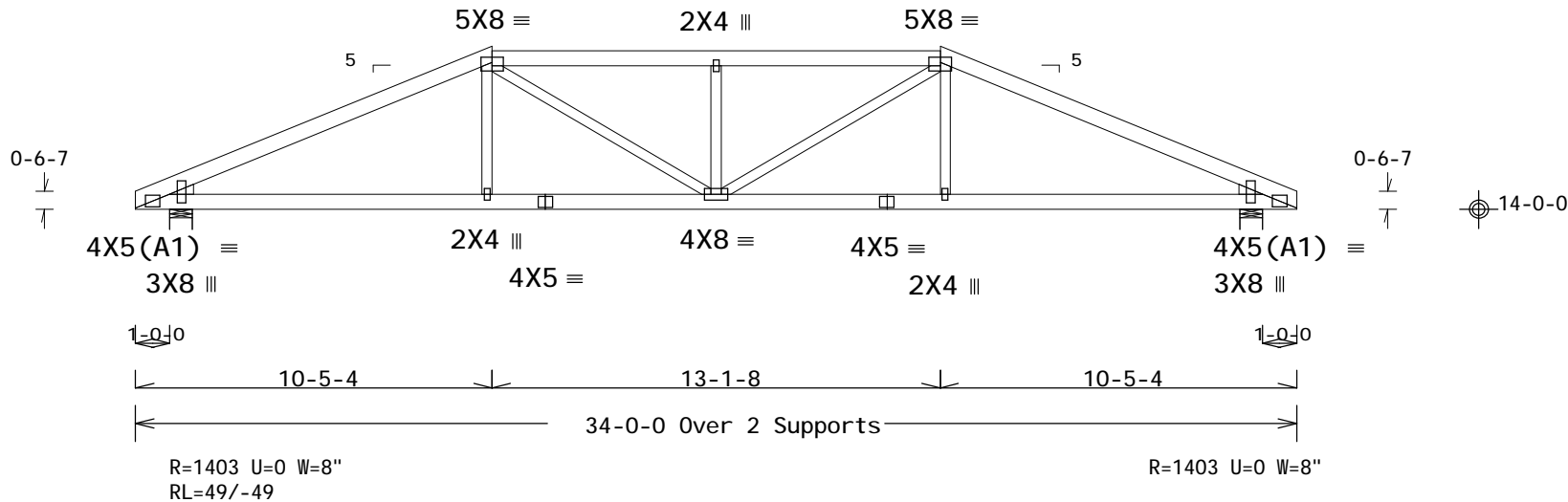
110 mph wind, 16.71 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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

Left and right cantilevers are 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 8.36 ft. from roof edge.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.05.0416.16 QTY: 1 MS/-/1/-/-/R/- Scale = .1875"/Ft.

PLT TYP. Wave\R



2400 Lake Orange Dr., Suite 150  
 Orlando, FL 32837  
 MS COA #E-0000581

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TC LL	20.0 PSF	REF R7634- 23301
TC DL	10.0 PSF	DATE 11/04/14
BC DL	10.0 PSF	DRW HCUSR7634 14308010
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 556512
DUR. FAC.	1.25	FROM SR
SPACING	24.0"	JREF- 1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A10)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #1-13B :B1 2x6 SP #2-13B:  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x6 SP #2-13B::Rt Wedge 2x6 SP #2-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

(a) Continuous lateral restraint equally spaced on member. Or 1x4 "T" brace. 80% length of web member. Same species & SRB grade or better, attached with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" 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 8.36 ft. from roof edge.

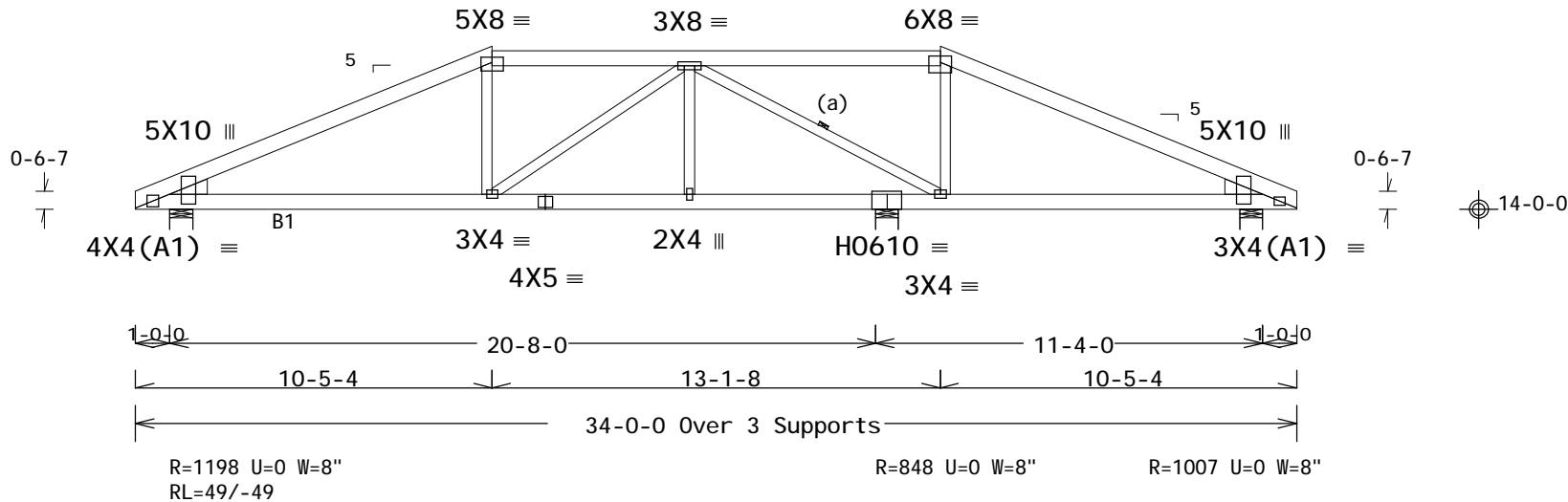
110 mph wind, 16.71 ft mean hgt, ASCE 7-10, CLOSED bldg, not located within 9.00 ft from roof edge, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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

Left and right cantilevers are exposed to wind

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

Truss designed for unbalanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

PLT TYP. 20 Gauge HS, WaveXR

12.03.05.0416.16

QTY: 1

MS/-/1/-/-/R/-

Scale = .1875"/Ft.



2400 Lake Orange Dr., Suite 150  
 Orlando, FL 32837  
 MS COA #E-00000581

**\*\*WARNING! \*\* READ AND FOLLOW ALL NOTES ON THIS DRAWING!  
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Alpine, a division of 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.

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For more information see this job's general notes page and these web sites:  
 ALPINE: www.alpineitw.com; TPI: www.tpinet.org; WICA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23302
DATE	11/04/14
DRW	HCUSR7634 14308006
HC-ENG	JB/DF
SEQN-	556544
FROM	SR
JREF-	1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A11)

Top chord 2x6 SP 1950F-1.7E  
 Bot chord 2x6 SP 2400F-2.0E :B2 2x6 SP #1-13B:  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

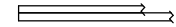
110 mph wind, 16.30 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

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

Left side jacks have 8-5-4 setback with 1-0-0 cant and 0-0-0 overhang. End jacks have 8-5-4 setback with 0-0-0 cant and 0-0-0 overhang. Right side jacks have 8-5-4 setback with 1-0-0 cant and 0-0-0 overhang.

Truss designed for balanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.

## 2 COMPLETE TRUSSES REQUIRED



Nail Schedule: 0.128"x3.25", min. nails  
 Top Chord: 1 Row @10.75" 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.

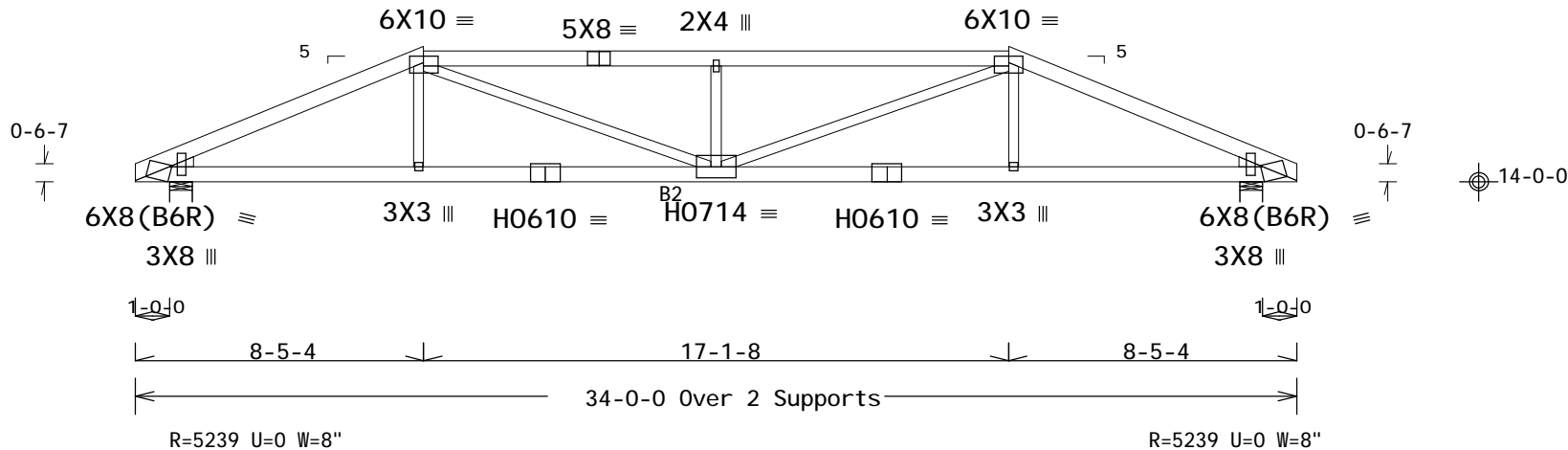
Wind loads and reactions based on MWFRS.

Left and right cantilevers are exposed to wind

#1 hip supports 8-5-4 jacks with no webs.

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

Calculated vertical deflection is 0.23" due to live load and 0.77" due to dead load at X = 17-0-0.



Design Crit: IBC2012/TPI-2007(STD)

PLT TYP. 20 Gauge HS, WaveXR

FT/RT=20%(0%)/10(O) 12.03.05.0416.16

QTY: 1 MS/-/1/-/-/R/- Scale = .1875"/Ft.



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 MS COA #E-00000581

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 ALPINE: www.alpineitw.com; TPI: www.tpinst.org; WTCA: www.sbciindustry.com; ICC: www.iccsafe.org



TC LL	20.0 PSF	REF R7634- 23303
TC DL	10.0 PSF	DATE 11/04/14
BC DL	10.0 PSF	DRW HCUSR7634 14308011
BC LL	0.0 PSF	HC-ENG JB/DF
TOT. LD.	40.0 PSF	SEQN- 556551
DUR. FAC.	1.25	FROM SR
SPACING	24.0"	JREF- 1VB77634Z01

(MW910-/MW /MW910 -- 6485 us hwy 49 Hattiesburg, MS - A12)

Top chord 2x6 SP #2-13B  
 Bot chord 2x6 SP #2-13B :B2 2x6 SP #1-13B:  
 Webs 2x4 SP #3-13B  
 :Lt Wedge 2x4 SP #3-13B::Rt Wedge 2x4 SP #3-13B:

Lumber grades designated with "13B" use design values approved 1/30/2013 by ALSC

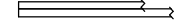
110 mph wind, 16.30 ft mean hgt, ASCE 7-10, CLOSED bldg, Located anywhere in roof, RISK CAT II, EXP B, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

(a) Continuous lateral restraint equally spaced on member.

#1 hip supports 8-5-4 jacks to BC.

Left side jacks have 8-5-4 setback with 1-0-0 cant and 0-0-0 overhang.  
 End jacks have 8-5-4 setback with 1-0-0 cant and 0-0-0 overhang.  
 Right side jacks have 8-5-4 setback with 1-0-0 cant and 0-0-0 overhang.

2 COMPLETE TRUSSES REQUIRED



Nail Schedule: 0.128"x3.25", min. nails  
 Top Chord: 1 Row @12.00" o.c.  
 Bot Chord: 1 Row @ 8.00" o.c.  
 Webs : 1 Row @ 4" o.c.  
 Use equal spacing between rows and stagger nails in each row to avoid splitting.

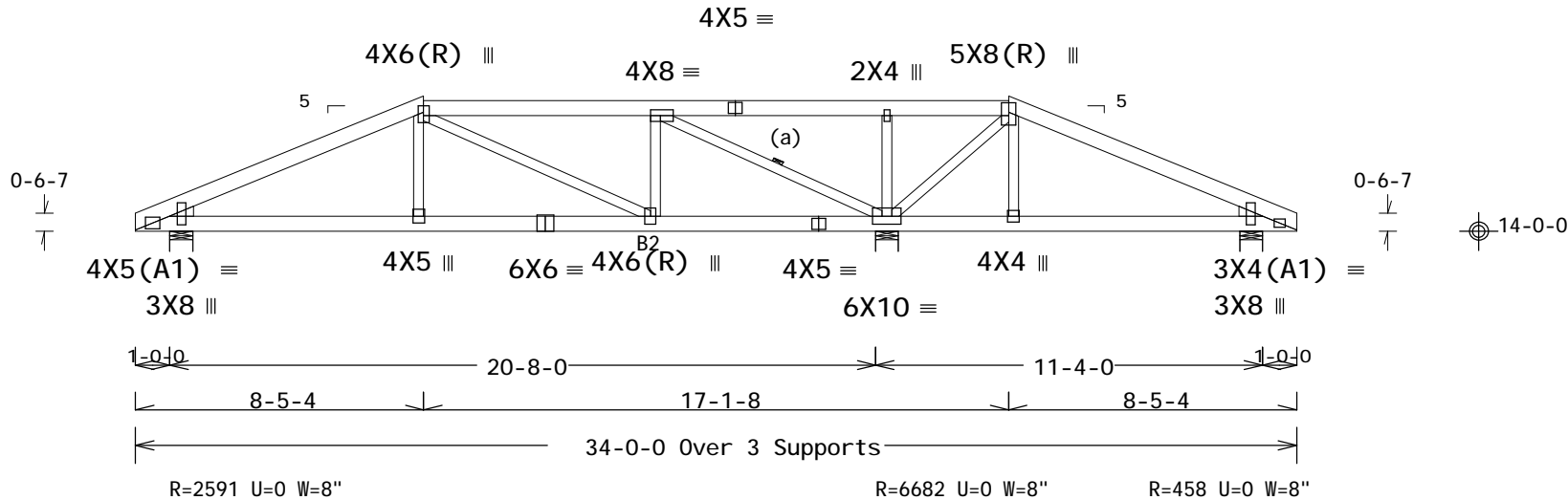
Wind loads and reactions based on MWFRS.

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.

Truss designed for balanced snow load based on Pg=20.00 psf, Ct=1.10, Ce=1.00, CAT III & Pf=16.94 psf.



Design Crit: IBC2012/TPI-2007(STD)  
 FT/RT=20%(0%)/10(0)

12.03.05.0416.16

QTY: 1

MS/-/1/-/-/R/-

Scale = .1875"/Ft.

PLT TYP. Wave\R



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 Orlando, FL 32837  
 MS COA #E-00000581

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TC LL	20.0 PSF
TC DL	10.0 PSF
BC DL	10.0 PSF
BC LL	0.0 PSF
TOT. LD.	40.0 PSF
DUR. FAC.	1.25
SPACING	24.0"

REF	R7634- 23304
DATE	11/04/14
DRW	HCUSR7634 14308001
HC-ENG	JB/DF
SEQN-	556548
FROM	SR
JREF-	1VB77634Z01

# 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-reinforcement or scab reinforcement.

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

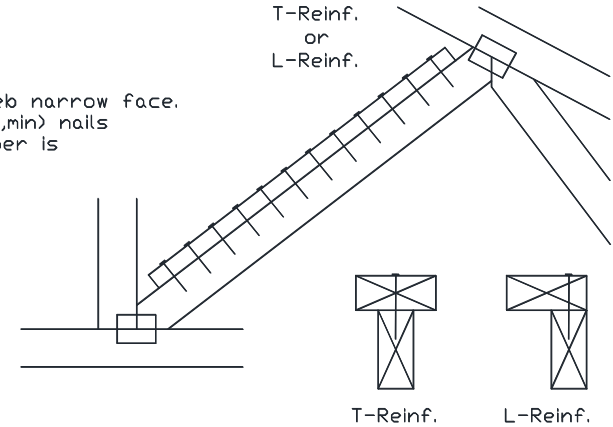
Web Member Size	Specified CLR Restraint	Alternative Reinforcement	
		T- or L- Reinf.	Scab Reinf.
2x3 or 2x4	1 row	2x4	1-2x4
2x3 or 2x4	2 rows	2x6	2-2x4
2x6	1 row	2x4	1-2x6
2x6	2 rows	2x6	2-2x4(*)
2x8	1 row	2x6	1-2x8
2x8	2 rows	2x6	2-2x6(*)

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.

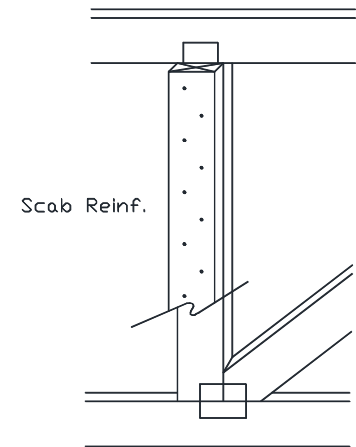
## T-Reinforcement OR L-Reinforcement:

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.



13389 Lakefront Drive  
Earth City, MO 63045

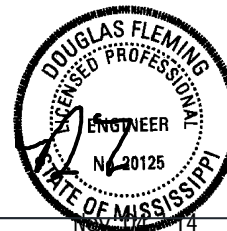
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TC LL	PSF	REF CLR Subst.
TC DL	PSF	DATE 10/01/14
BC DL	PSF	DRWG BRCLBSUB1014
BC LL	PSF	
TOT. LD.	PSF	
DUR. FAC.		
SPACING		