

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
Page 1 of 1 Document ID: ITBU215-Z0523145646

Truss Fabricator: W.B. Howland
Job Identification: 4996-/HOLLY /North Florida Framers -- , **
Truss Count: 14
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Version 7.38.
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 - 110 MPH ASCE 7-02 -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

Details: A11015EE-GBLLETIN-CNBRGBLK-



Seal Date: 10/23/2007

-Truss Design Engineer-
James F. Collins Jr.
Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

#	Ref	Description	Drawing#	Date
1	16034--1		07296022	10/23/07
2	16035--2		07296013	10/23/07
3	16036--A1		07296023	10/23/07
4	16037--A2		07296014	10/23/07
5	16038--A3		07296015	10/23/07
6	16039--A4		07296016	10/23/07
7	16040--A5		07296017	10/23/07
8	16041--A6		07296024	10/23/07
9	16042--A7		07296018	10/23/07
10	16043--JC1		07296001	10/23/07
11	16044--JC3		07296019	10/23/07
12	16045--JC5		07296020	10/23/07
13	16046--JE7		07296021	10/23/07
14	16047--JH10		07296025	10/23/07



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)-0.18

Wind reactions based on MWFRS pressures.

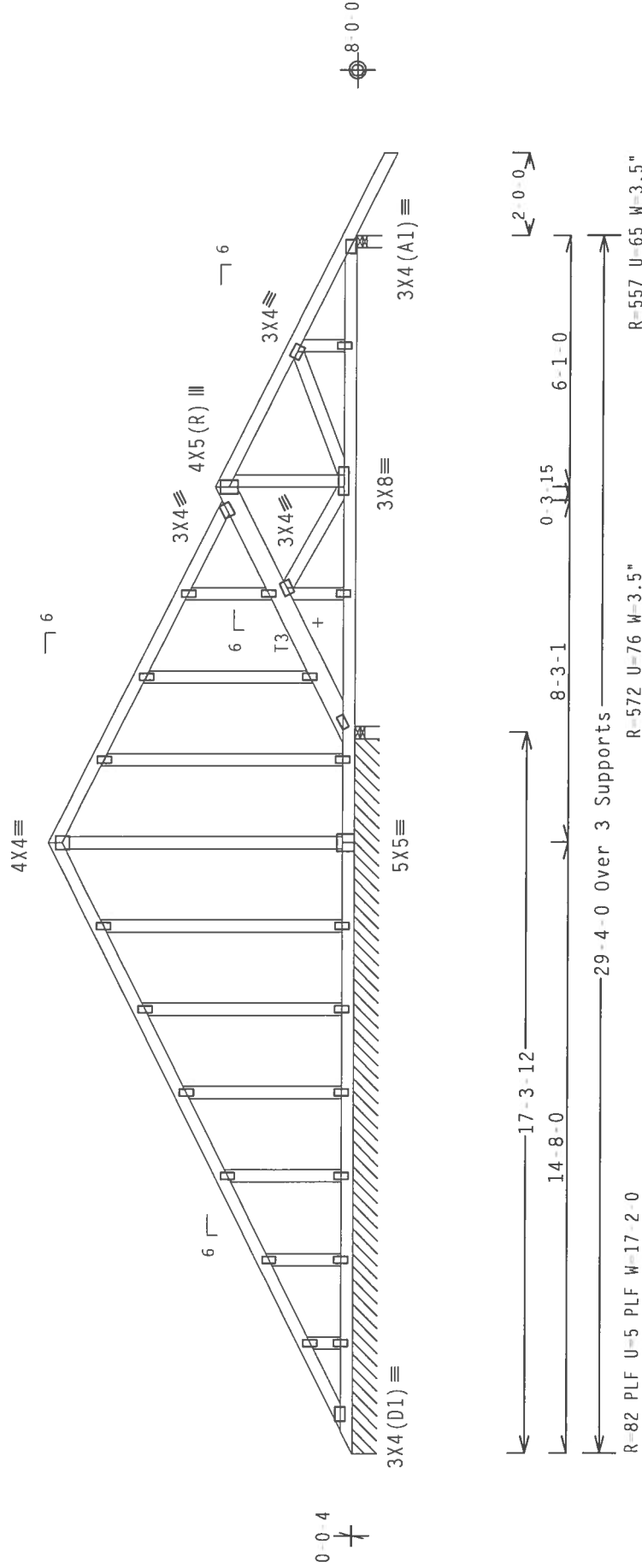
Deflection meets L/240 live and L/180 total load.

+ MEMBER TO BE Laterally Braced For Horizontal Wind Loads.
Bracing System To Be Designed And Furnished By Others.

See DWGS A11015EE0207 & GBLLTIN0207 for more requirements.

The overall height of this truss excluding overhang is 7'-4".

THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.



Note: All Plates Are 2X4 Except As Shown.

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/0(0)$$

QTY:1 FL/-/5/-/1-/R/-

Scale = .25"/Ft.

WARNING: TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, UNLOADING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY IPI (JONES PATE INSTITUTE, 2109 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WEA (WOOD TRUSS COUNCIL OF AMERICA, ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CLADDING.

****IMPORTANT****-FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. JTW BCG, INC., SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF INDIA (NATIONAL DESIGN SPEC. BY AIRFA) AND IPTI. 1TH BEG

CONNECTIONS WITH APPLICABLE PROVISIONS OF INDIA (NATIONAL DESIGN SPEC. BY AIRFA) AND IPTI. 1TH BEG

CONNECTOR PLATES ARE MADE OF 2018/1668 (M-H/555K) ASIN A653 GRADE 40/60 (M. K/H-55) GALV. STEEL. APPLY

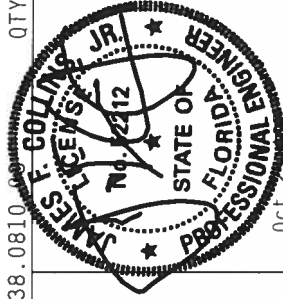
PLATES TO EACH FACE OF TRUSS AND, OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A. 2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX A3 OF IPTI 2002 SEC.3.

DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWN. THE SUBMITTAL AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

DESIGN ENGINEER. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE



Haines City, FL 33844
FL Certificate of Authorization # 0278

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY

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1000 1300000 700

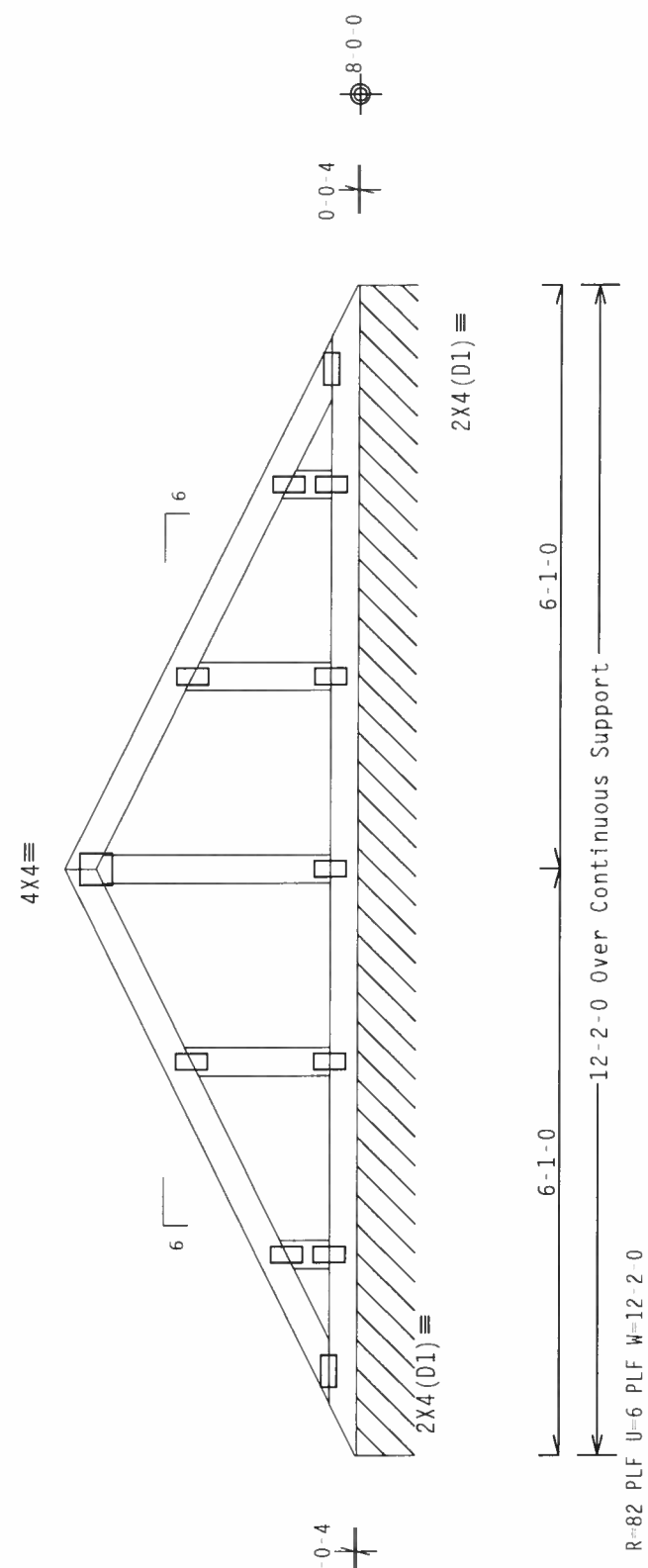
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

See DWGS A11015EE0207 & GBLLETIN0207 for more requirements.
Deflection meets L/240 live and L/180 total load.

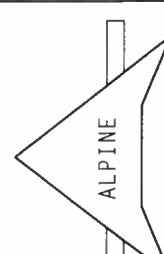
THE BUILDING DESIGNER IS RESPONSIBLE FOR THE DESIGN OF THE ROOF AND CEILING DIAPHRAGMS, GABLE END SHEAR WALLS, AND SUPPORTING SHEAR WALLS. SHEAR WALLS MUST PROVIDE CONTINUOUS LATERAL RESTRAINT TO THE GABLE END. ALL CONNECTIONS TO BE DESIGNED BY THE BUILDING DESIGNER.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Wind reactions based on MMFRS pressures.
The overall height of this truss excluding overhang is 3-0-12.



Note: All Plates Are 2x4 Except As Shown.
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:1 FL/-/5/-/R/- Scale =.5"/Ft.



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0 278

DESIGNER'S SEAL
No. 52272
STATE OF FLORIDA
PROFESSIONAL ENGINEER
Oct 23 07

QTY:1	FL/-/5/-/R/-	Scale =.5"/Ft.
TC LL	20.0 PSF	REF R215-- 16035
TC DL	10.0 PSF	DATE 10/23/07
BC DL	10.0 PSF	DRW HCUSR215 07296013
BC LL	0.0 PSF	HC-ENG EC/AP *
TOT.LD.	40.0 PSF	SEQN- 81505
DUR.FAC.	1.25	FROM LRB
SPACING	24.0"	JREF- 1TB0215_Z05

****WARNING**** TRUSSES REQUIRE EXTERIOR CARE IN FABRICATING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 WEST 10TH AVENUE, SUITE 200, ALBUQUERQUE, NM 87102) OR TPI (TRUSS PLATE INSTITUTE, 6300 ENTERPRISE BLVD., HADISON, NJ 07617) FOR TRUSS BRACING REQUIREMENTS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC., BY ACAPA) AND TPI. 1TH REG CONNECTOR PLATES ARE MADE OF 20/18/16GA (N.J./SS/K) ASTM A653 GRADE 40/60 (N. K/JN/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

Top chord 2x4 SP SS :T2 2x6 SP SS:
:T3 2x4 SP #2 Dense:
Bot chord 2x6 SP SS
Webs 2x4 SP #2 N
:Lt Wedge 2x4 SP #2 N::Rt Wedge 2x4 SP #2 N:
Bearing blocks: Nail type: 0.131"x3" Gun nails
BRG X-LOC #BLOCKS LENGTH/BLK #NAILS/BLK WALL PLATE
1 0.000' 1 12" 4 Rigid Surface
2 29.042' 1 12" 4 Rigid Surface
Bearing block to be same size and species as bottom chord.
Refer to drawing CNBRBLK0207 for additional information.

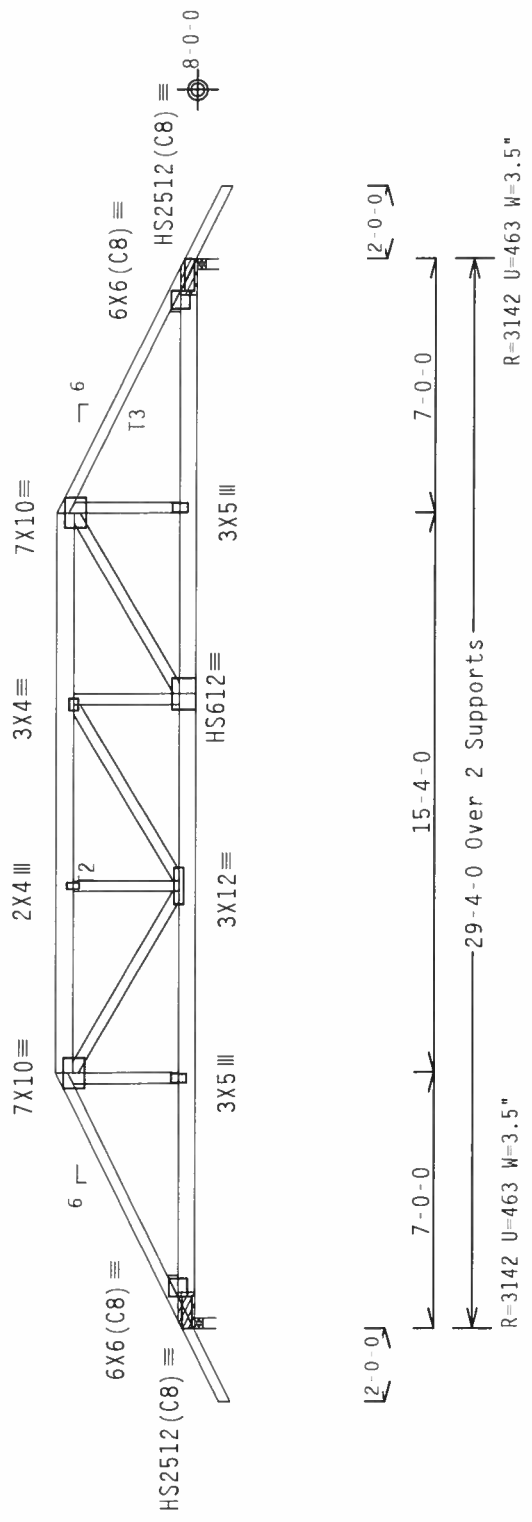
Wind reactions based on MWFRS pressures.
Deflection meets L/240 live and L/180 total load.
LOADING HAS BEEN CALCULATED BY THE TRUSS MANUFACTURER.
IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO
VERIFY AND APPROVE THE LOADING.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT II, EXP B, wind TC
DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{Cpi}(+/-)=0.18$

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

SPECIAL LOADS

----- (LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 62 PLF at -2.00 to 62 PLF at 7.00
TC - From 62 PLF at 7.00 to 62 PLF at 22.33
TC - From 62 PLF at 22.33 to 62 PLF at 31.33
BC - From 20 PLF at 0.00 to 20 PLF at 29.33
TC - 183 LB Conc. Load at 7.06, 9.06, 11.06, 13.06, 14.67
16.27, 18.27, 20.27, 22.27
BC - 711 LB Conc. Load at 7.00, 22.33
BC - 78 LB Conc. Load at 9.06, 11.06, 13.06, 14.67, 16.27
18.27, 20.27



PLT TYP. 20 Gauge HS,Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

Scale = .1875" / Ft.

QTY: 1 FL / - / 5 / - / R / -

TC LL	20.0 PSF	REF	R215 - -	16036
TC DL	10.0 PSF	DATE	10/23/07	
BC DL	10.0 PSF	DRW	HCUSR215	07296023
BC LL	0.0 PSF	HC-ENG	EC/AP	
TOT.LD.	40.0 PSF	SEQN-	81536	
DUR.FAC.	1.25	FROM	LRB	
SPACING	24.0"	JREF	1TBU215	Z05

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

STAMP: K. COLLINS JR. No. 8272 STATE OF FLORIDA PROFESSIONAL ENGINEER

Oct 23 2007

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST PRACTICES (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 219 HOLLAND STREET, HAINES CITY, FL 33844) FOR SAFETY PRACTICES PRIOR TO PERFORMING ANY WORK. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

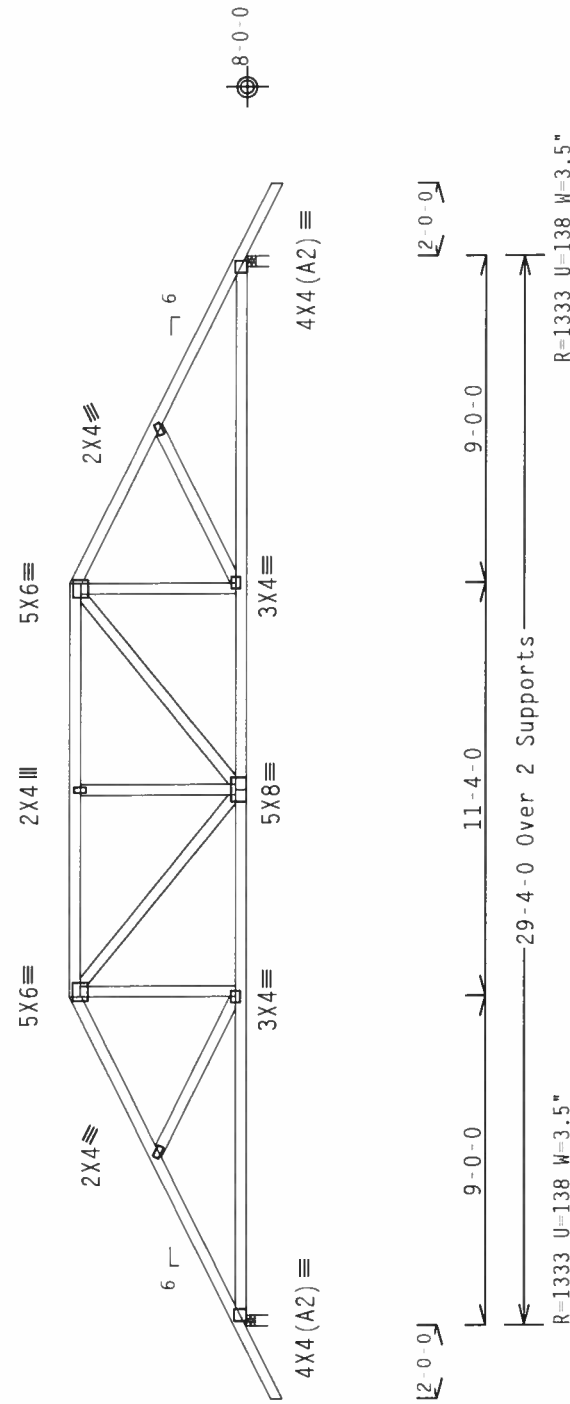
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 20/18/16GA (W-I/J/S/S) ASTM A653 GRADE 40/60 (W. K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) DRAWING INDICATES. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 160A 2.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

The overall height of this truss excluding overhang is 4-10-3.



Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/0(0)$$

QTY:1 FL/-/5/-/-/R/-/ Scale =.1875"/Ft.

7.38.0810.0810

PLT TYP. Wave

*****WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST AVAILABLE COMPONENT SAFETY INFORMATION, AND PUBLISHED BY IPI (TRUSS PLATE INSTITUTE, 2310 MONTELEONE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND MILWAUKEE TRUSS COUNCIL OF AMERICA, 4500 W. WISCONSIN AVE., SUITE 100, MILWAUKEE, WI 53227. TRUSSES MUST BE PROPERLY ATTACHED TO STRUCTURAL PANELS AND BOTTOM CHORD SHALL NEVER BE PROPERLY ATTACHED TO RIGID CEILING.

*****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BSGI (BUILDING CONCEPT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 WEST 10TH STREET, SUITE 100, MADISON, WI 53703) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIVITIES. OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

*****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITC, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE OF THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, SHIPPING, INSTALLING, BRACING, OR ERECTING TRUSSES, SHALL BE THE RESPONSIBILITY OF THE DESIGNER. DESIGN CONFORMS WITH APPLICABLE REQUIREMENTS OF NDS (NATIONAL DESIGN SPECIFICATION, BY TPI). CONNECTION PLATES ARE MADE OF 2010/16IGA (W/35/2P) ASTM A653 GRADE 40/60 (H, K/H-55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS T60A-2 THROUGH T60A-10. THE DESIGNER ACCEPTS RESPONSIBILITY TO PROVIDE ALL NECESSARY INFORMATION TO THE TRUSS COMPONENT MANUFACTURER. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASTM/FIP 11 SEC. 2.

TC LL	20.0	PSF	REF	R215	--	16037
TC DL	10.0	PSF	DATE	10/23/07		
BC DL	10.0	PSF	DRW	HCUSR215	07296014	
BC LL	0.0	PSF	HC-ENG	EC/AP		
TOT.LD.	40.0	PSF	SEON-	81514		
DUR.FAC.	1.25		FROM	LRB		
SPACING	24.0"		DEEC-	1TRBU215	705	

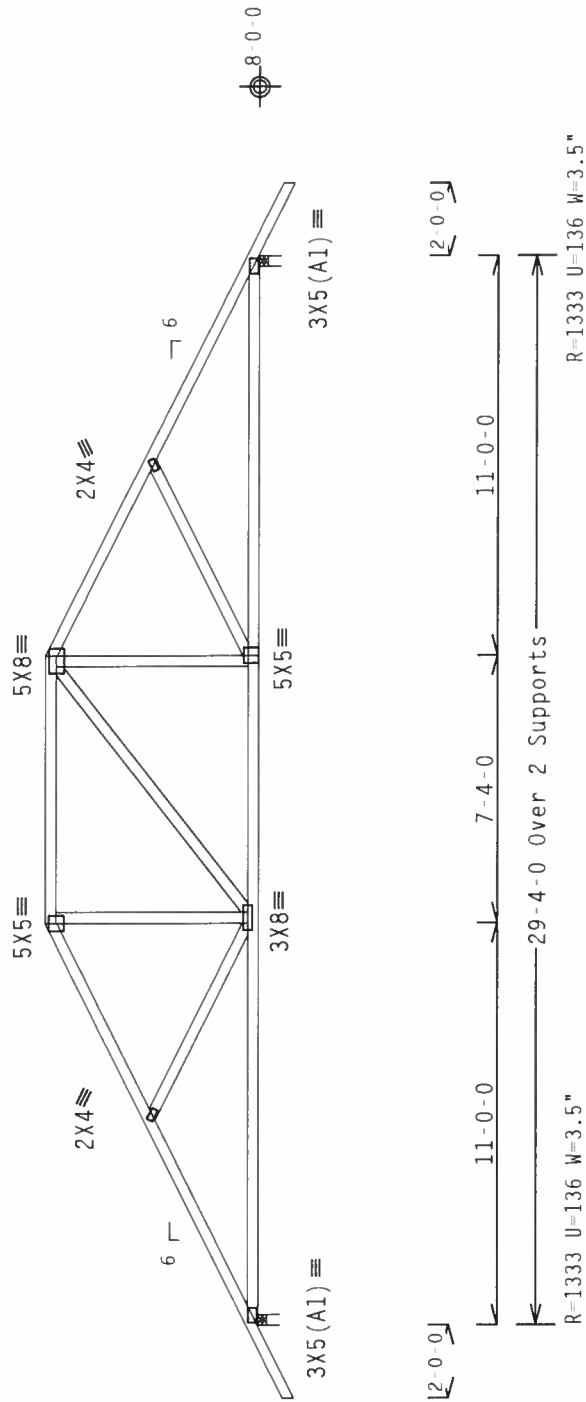
Haines City, FL 33844
FL Certificate of Authorization #0278

Haines City, FL 33844
FL Certificate of Authorization #0278

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpi(+/-)0.18

Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 5-10-3.



Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/0(0)$$

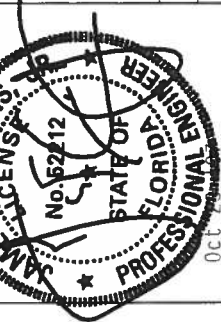
QTY:1

FL/-/5/-/-/R/-

Scale = .1875"/Ft.

WARNING: THUSST'S PLUMBER, EXERCISE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND PRACING. REFER TO BEST BUILDING CODES FOR SAFETY INFORMATION. PUBLISHED BY CITY PLUMBING PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND NCA TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HADISIM, MI 48471. (52719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE OTHERWISE INDICATED RIGID CHORDS.

TC LL	20.0	PSF	REF	R215--	16038
TC DL	10.0	PSF	DATE	10/23/07	
BC DL	10.0	PSF	DRW	HCUSR215	07296015
BC LL	0.0	PSF	HC-ENG	EC/AP	
TOT.LD.	40.0	PSF	SEQN-	81512	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1TB0215	Z05



Haines City, FL 33844
FL Certificate of Authorization # 0278

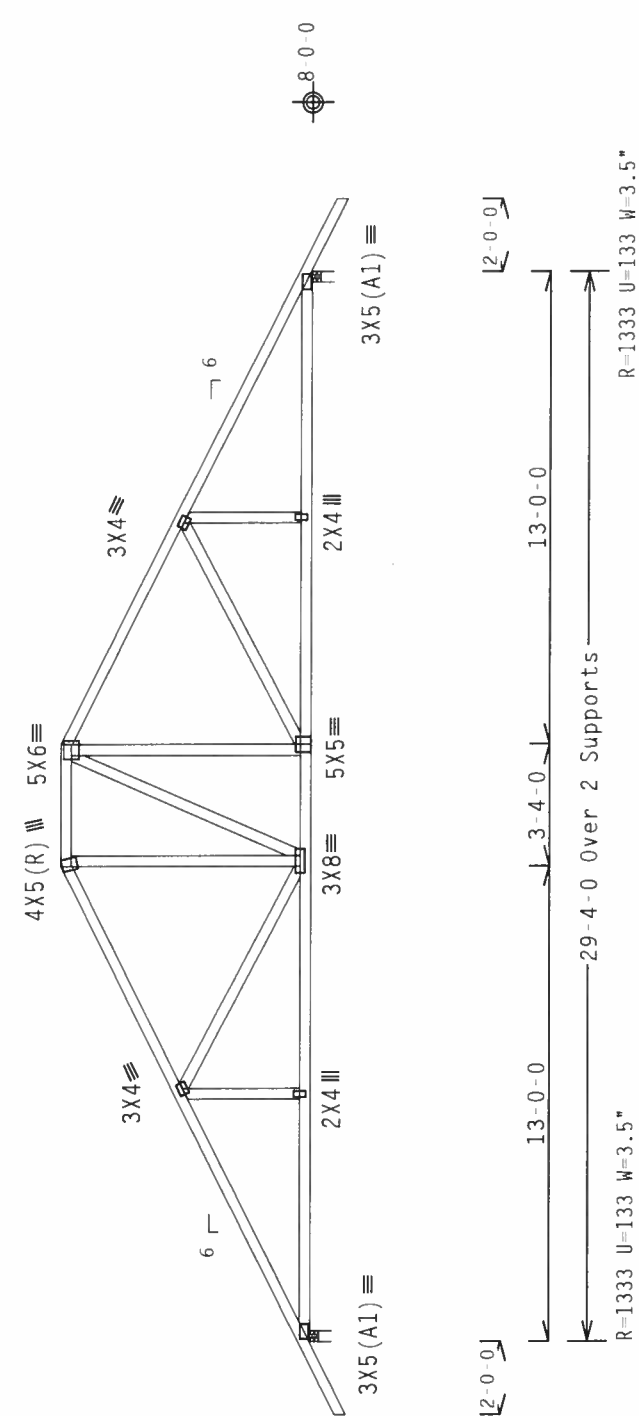
Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Webs 2x4 SP #2 N

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{Cpi}(+/-)=0.18$

Deflection meets L/240 live and L/180 total load.

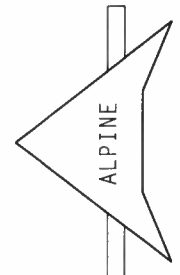
Wind reactions based on MWFRS pressures.

The overall height of this truss excluding overhang is 6-10-3.



Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

Scale = .1875" / Ft.
QTY: 1 FL / - / 5 / - / - / R / -



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****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 2101 STREET, SUITE 312, ALEXANDRIA, VA 22316) AND WEA (WOOD ENGINEERING ASSOCIATION, 6300 WILSON AVENUE, SUITE 100, BOSTON, MA 02119) FOR ADDITIONAL INFORMATION. THESE TRUSSES ARE DESIGNED TO BE USED WITH THE FOLLOWING MATERIALS AND CONDITIONS. IF ANY OTHER MATERIALS OR CONDITIONS ARE USED, THE USER SHALL BE RESPONSIBLE FOR THE RESULTS. A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

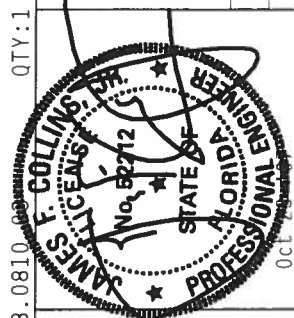
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF IBCS (NATIONAL DESIGN SPEC. BY AEPD) AND TPI.

CONNECTOR PLATES ARE MADE OF 2018/16GA (N/A/55/K) ASTM A653 GRADE 40/60 (W. K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS T6GA 2.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2

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	R215--	16039
DATE	10/23/07	
DRW	HCUSR215	07296016
HC-ENG	EC/AP	*
SEQN-	81510	
FROM	LRB	
JREF	1TBU215	Z05

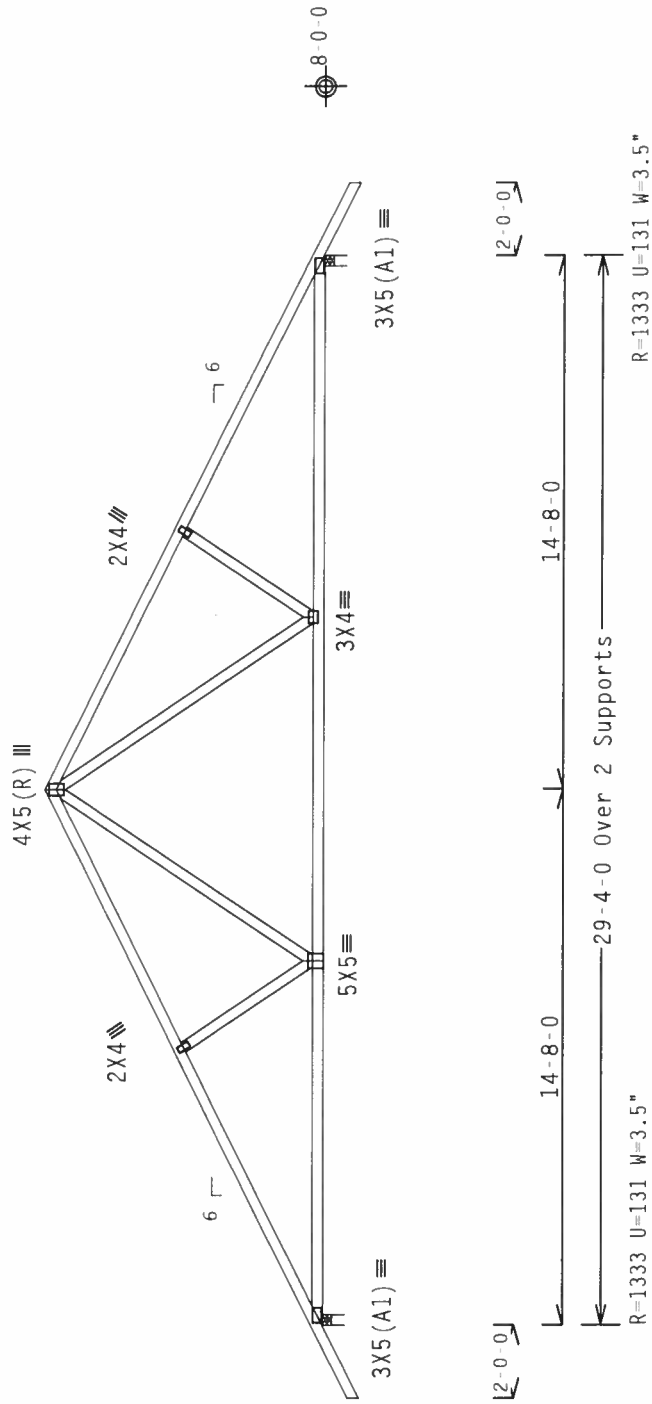


110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf Iw=1.00 GCpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Deflection meets L/240 live and L/180 total load.

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



Design Crit: TPI-2002(STD)/FBC

$$C_0/RT = 1.00(1.25)/0(0)$$

Scale = .1875"/Ft.

****WARNING**** TRAVELS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING RIGOR TO BEGINS BUILDING CONSTRUCTION. SAFETY INFORMATION, PUBLISHED BY TPI CROSS PLATE INSTITUTE, 218 FIFTH AVE. NEW YORK, NY 10010. (212) 691-1000. FOR MORE INFORMATION, VISIT TPI'S WEBSITE, WWW.TPI-CROSSPLATE.COM.
FIBERGLASS LANE MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844

FL Certificate of Authorization # 0278
Haines City, FL 33844



Oct 23-97

SPACING 24.0"

JREF- 1TBU215 705

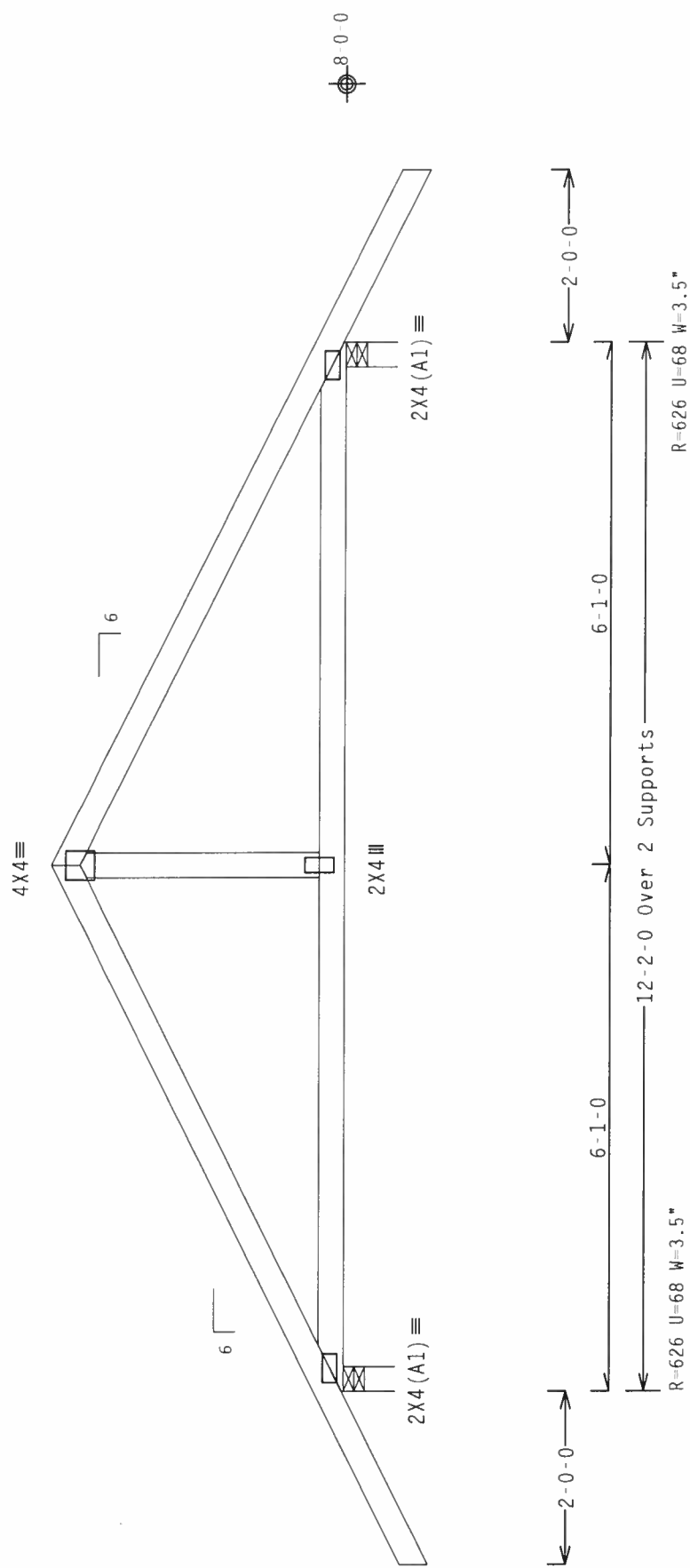
Top	chord	2x4	SP	#2	N
Bot	chord	2x4	SP	#2	N
	Webs	2x4	SP	#2	N

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. lw=1.00 GCpi(+/-)=0.18

Deflection meets L/240 live and L/180 total load.

Wind reactions based on MWERS pressures.

The overall height of this truss excluding overhang is 3-4-11.



PLT TYP. Wave

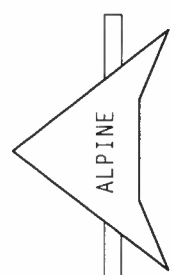
Design Crit: $\text{TPI-2002(STD)}/\text{FBC}$
 $\text{Ca}/\text{RT}=1.00(1.25)/$

QTY:1 EL/-/5/-/-/R/-/

Scale = 5"/Ft

*****WARNING***** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY TPSS (TRUSS PLATE INSTITUTE, 219 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6000 ENTERPRISE LANE, MADISON, WI 53719), FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

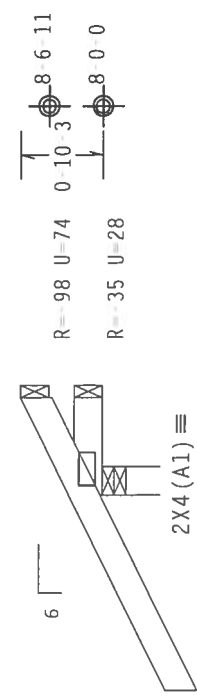
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IC DL	10.0	PSF	DATE	10/23/07	
BC DL	10.0	PSF	DRW	HCUSR215	07296018
BC LL	0.0	PSF	HC-ENG	EC/AP	*
TOT.LD.	40.0	PSF	SEQN-	81526	
DUR.FAC.	1.25		FROM	LRB	
SPACING	24.0"		JREF-	1TBU215	Z05



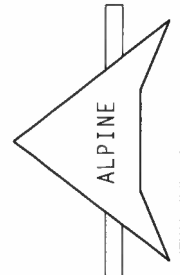
ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

Oct 23 '07

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 0 10-3.
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCpi(+/-)0.18
Wind reactions based on MWFRS pressures.



PLT TYP. Wave



ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0278

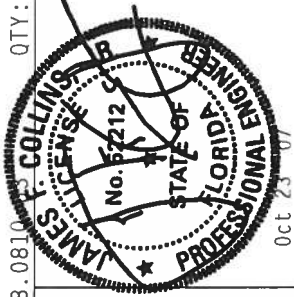
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810 QTY:4 FL/-/5/-/-/R/- Scale =.5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 W. ALPINE BLVD., ALPINE, CA 91901) AND TPI (TRUSS PLATE INSTITUTE, 218 W. ALPINE BLVD., ALPINE, CA 91901) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AF&PA) AND TPI. CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/55/K) ASTM A653 GRADE 40/60 (W, K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

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	R215--	16043
DATE	10/23/07	
DRW	HCUSR215	07296001
HC-ENG	CC/AP	
SEQN-	73407	
FROM	LRB	
JREF-	1TBU215_Z05	

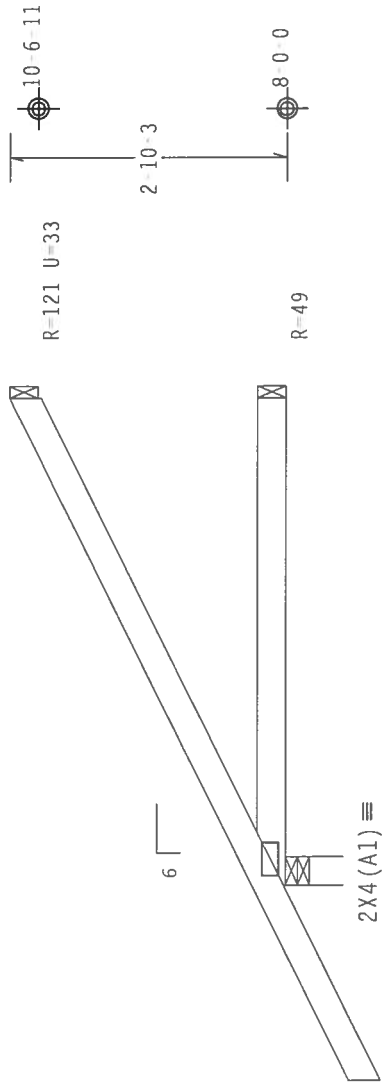


The overall height of this truss excluding overhang is 1-10-3.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 2 10-3.

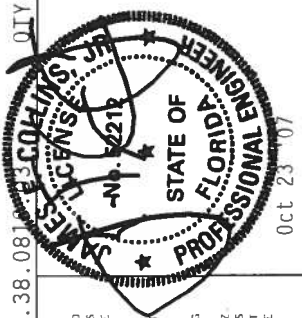
110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 GCpi(+/-)=0.18
Wind reactions based on MWFRS pressures.



2-0-0
5-0-0 Over 3 Supports
R-366 U=34 W=3.5"

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0)

Scale = .5" / Ft.	REF R215 -- 16045
DATE 10/23/07	DRW HCUSR215 07296020
HC-ENG EC/AP	SEQN- 81520
FROM LRB	JREF- 1TBU215_Z05



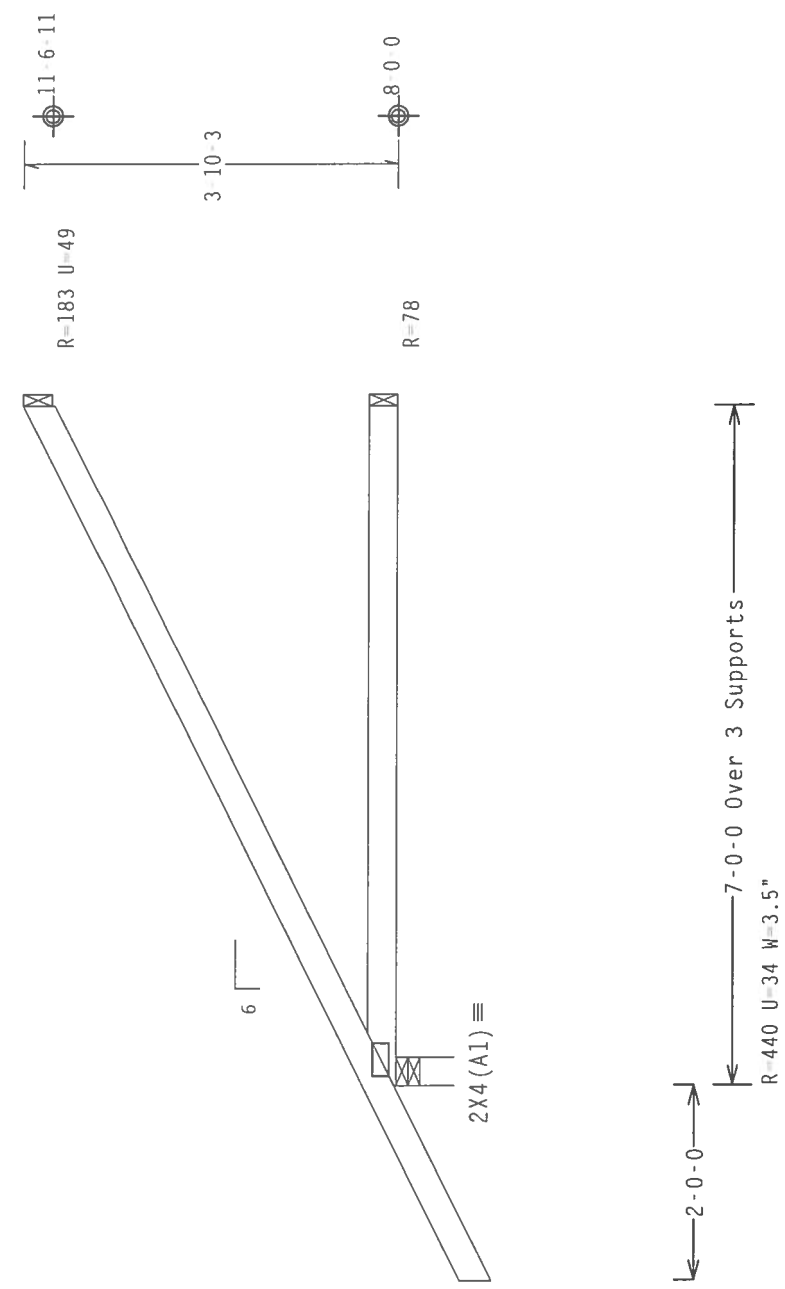
****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH 11TH STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, ALL TRUSSES SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** UNLESS A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES IN ACCORDANCE WITH THE DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF HDS (NATIONAL DESIGN SPEC, BY AIA/AS) AND TPI. ITW BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (40/55/PS) ASTM A653 GRADE 40/60 (W, K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TPI 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization # 0278

Top chord 2x4 SP #2 N
Bot chord 2x4 SP #2 N
Deflection meets L/240 live and L/180 total load.
The overall height of this truss excluding overhang is 3 10 3.

110 mph wind, 15.00 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $1w=1.00$ GCpi(+/-)=0.18
Wind reactions based on MWFRS pressures.



PLT TYP. Wave

ITW Building Components Group, Inc.
Haines City, FL 33844
FL Certificate of Authorization #0278

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/0(0) 7.38.0810

QTY: 9 FL/-/5/-/-/R/- Scale = .5"/Ft.

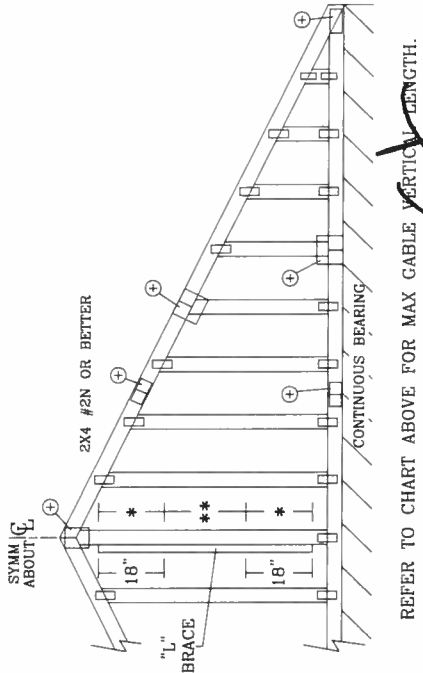
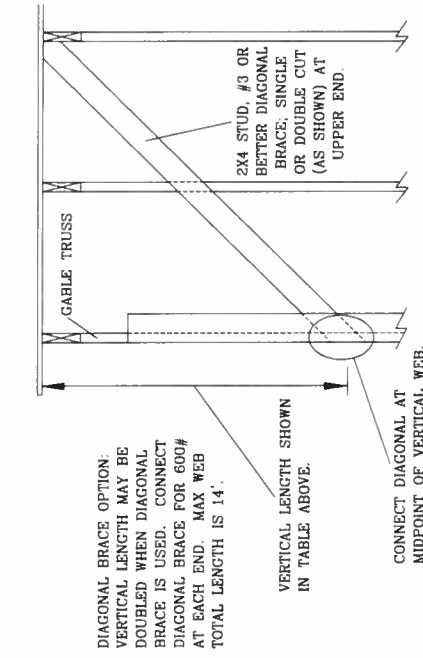
TC LL	20.0 PSF	REF	R215--	16046
TC DL	10.0 PSF	DATE	10/23/07	
BC DL	10.0 PSF	DRW	HCUSR215	07296021
BC LL	0.0 PSF	HC-ENG	EC/AP	*
TOT.LD.	40.0 PSF	SEQN-	81528	
DUR.FAC.	1.25	FROM	LRB	
SPACING	24.0"	JREF-	1TBU215	Z05

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES ARE NOT TO BE USED FOR ANY OTHER PURPOSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER DESIGN, FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

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Oct 23 '07

MAX GABLE VERTICAL LENGTH													
2X4 GABLE VERTICAL SPACING	BRACE GRADE	NO BRACES	(1) 1X4 "L" BRACE •			(2) 2X4 "L" BRACE ••			(1) 2X6 "L" BRACE •			(2) 2X6 "L" BRACE •	
			GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A	GROUP B	GROUP A		GROUP B
12" O.C.	SPF	#1 / #2	3' 10"	6' 8"	6' 10"	7' 11"	8' 1"	9' 5"	9' 8"	12' 5"	12' 9"	14' 0"	14' 0"
	HF	#3	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 4"	12' 4"	14' 0"	14' 0"
	STUD	STUD	3' 9"	6' 0"	6' 0"	7' 11"	7' 11"	9' 5"	9' 5"	12' 3"	12' 3"	14' 0"	14' 0"
	STANDARD	STANDARD	3' 9"	5' 2"	5' 2"	6' 9"	6' 9"	9' 1"	9' 1"	10' 7"	10' 7"	14' 0"	14' 0"
24" O.C.	SP	#1	4' 3"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#2	4' 2"	6' 8"	7' 2"	7' 11"	8' 6"	9' 5"	10' 2"	12' 5"	13' 5"	14' 0"	14' 0"
		#3	4' 0"	6' 2"	6' 2"	7' 11"	8' 1"	9' 5"	9' 11"	12' 5"	12' 8"	14' 0"	14' 0"
	DFL	STUD	4' 0"	6' 1"	6' 1"	7' 11"	8' 0"	9' 5"	9' 11"	12' 5"	12' 6"	14' 0"	14' 0"
		STANDARD	3' 10"	5' 3"	5' 3"	6' 11"	6' 11"	9' 4"	9' 4"	10' 10"	10' 10"	14' 0"	14' 0"
	SPF	#1 / #2	4' 5"	7' 8"	7' 10"	9' 1"	9' 4"	10' 10"	11' 1"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 4"	7' 4"	7' 4"	9' 1"	9' 1"	10' 10"	10' 10"	14' 0"	14' 0"	14' 0"	14' 0"
16" O.C.		STANDARD	4' 4"	6' 4"	6' 4"	8' 4"	8' 4"	10' 10"	10' 10"	12' 11"	12' 11"	14' 0"	14' 0"
	SP	#1	4' 10"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	4' 9"	7' 8"	8' 3"	9' 1"	9' 9"	10' 10"	11' 8"	14' 0"	14' 0"	14' 0"	14' 0"
		#3	4' 6"	7' 7"	7' 7"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.	DFL	STUD	4' 6"	7' 6"	7' 6"	9' 1"	9' 6"	10' 10"	11' 4"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 5"	6' 5"	6' 5"	8' 6"	8' 6"	10' 10"	11' 1"	13' 3"	13' 3"	14' 0"	14' 0"
	SPF	#1 / #2	4' 11"	8' 5"	8' 8"	10' 0"	10' 3"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"
	HF	#3	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STUD	4' 9"	8' 5"	8' 5"	10' 0"	10' 0"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 9"	7' 3"	7' 3"	9' 7"	9' 7"	11' 11"	11' 11"	14' 0"	14' 0"	14' 0"	14' 0"
	SP	#1	5' 4"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
		#2	5' 3"	8' 5"	9' 1"	10' 0"	10' 9"	11' 11"	12' 10"	14' 0"	14' 0"	14' 0"	14' 0"
12" O.C.		#3	5' 0"	8' 5"	8' 5"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
	DFL	STUD	5' 0"	8' 5"	8' 7"	10' 0"	10' 6"	11' 11"	12' 6"	14' 0"	14' 0"	14' 0"	14' 0"
		STANDARD	4' 11"	7' 5"	7' 5"	9' 10"	9' 10"	11' 11"	12' 3"	14' 0"	14' 0"	14' 0"	14' 0"



BRACING GROUP SPECIES AND GRADES:

GROUP A:

SPRUCE-PINE-FIR	
#1 / #2	STANDARD
#3	STANDARD

DOUGLAS FIR-LARCH

#3	STUD
#3	STANDARD

HEM-FIR

#2	STUD
#3	STANDARD

SOUTHERN PINE

#3	STUD
#3	STANDARD

GROUP B:

HEM-FIR	
#1 & BTR	#1

SOUTHERN PINE

#1	#2
----	----

DOUGLAS FIR-LARCH

#1	#2
----	----

GABLE TRUSS DETAIL NOTES:

LIVE LOAD DEFLECTION CRITERIA IS L/240.

PROVIDE UPLIFT CONNECTIONS FOR 80 PLF OVER CONTINUOUS BEARING (5 PSF TC DEAD LOAD).

CABLE END SUPPORTS LOAD FROM 4' 0"

OUTLOOKERS WITH 2' 0" OVERHANG, OR 12" PLYWOOD OVERHANG.

ATTACH EACH "L" BRACE WITH 10d 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

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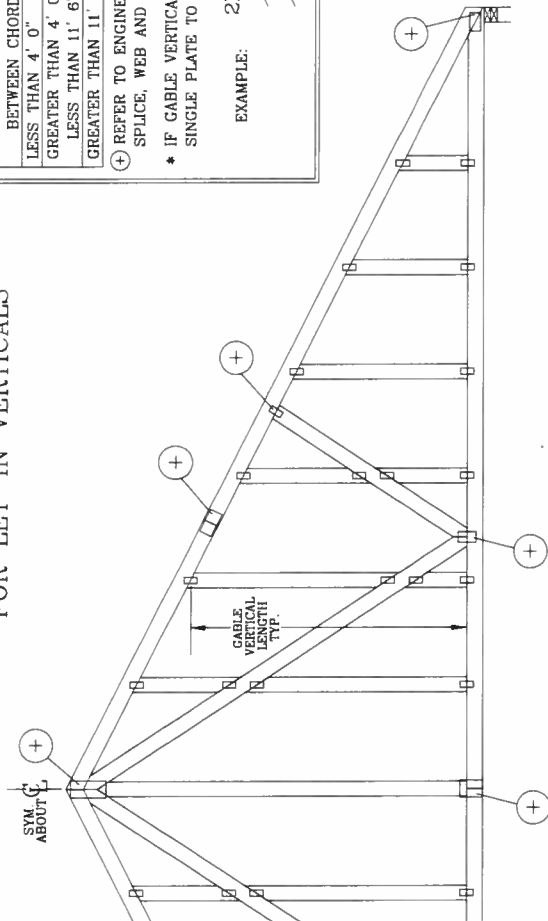
REF ASCE7-02-CAB11015
DATE 2/23/07
DRWG A11015EE0207
-ENG

MAX. TOT. LD. 60 PSF
MAX. SPACING 24.0"

JAMES P. SOULINS, VR
LICENSE No. 52212
STATE OF FLORIDA
PROFESSIONAL ENGINEER

ALPINE
ITV BUILDING COMPONENTS GROUP, INC.
POMPAHO BEACH, FLORIDA

GABLE DETAIL FOR LET-IN VERTICALS



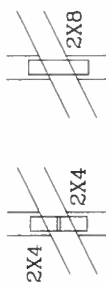
GABLE VERTICAL PLATE SIZES

VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X6
GREATER THAN 4' 0" BUT LESS THAN 11' 6"	2X4	2X6
GREATER THAN 11' 6"	2.5X4	2.5X6

⊕ REFER TO ENGINEERED TRUSS DESIGN FOR PEAK, SPLICE, WEB AND HEEL PLATES.

* IF GABLE VERTICAL PLATES OVERLAP, USE A SINGLE PLATE TO SPAN THE WEB.

EXAMPLE:



PROVIDE CONNECTIONS FOR UPLIFT SPECIFIED ON THE ENGINEERED TRUSS DESIGN.

ATTACH EACH "T" REINFORCING MEMBER WITH

HAND DRIVEN NAILS:

- 10d COMMON (0.148" X 3.3" MIN) TOENAILS AT 4" O.C. PLUS
- (4) 16d COMMON (0.162" X 3.5" MIN) TOENAILS IN TOP AND BOTTOM CHORD.

GUN DRIVEN NAILS:

- 8d COMMON (0.131" X 2.5" MIN) TOENAILS AT 4" O.C. PLUS
- (4) TOENAILS IN TOP AND BOTTOM CHORD.

THIS DETAIL TO BE USED WITH THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.

ASCE 7-93 GABLE DETAIL DRAWINGS

A11015EN0207, A10015EN0207, A09015EN0207, A08015EN0207, A07015EN0207, A11030EN0207, A10030EN0207, A09030EN0207, A08030EN0207, A07030EN0207

ASCE 7-98 GABLE DETAIL DRAWINGS

A13015EC0207, A12015EC0207, A11015EC0207, A10015EC0207, A08015EC0207, A07015EC0207, A11030EC0207, A10030EC0207, A09030EC0207, A08030EC0207, A07030EC0207

ASCE 7-02 GABLE DETAIL DRAWINGS

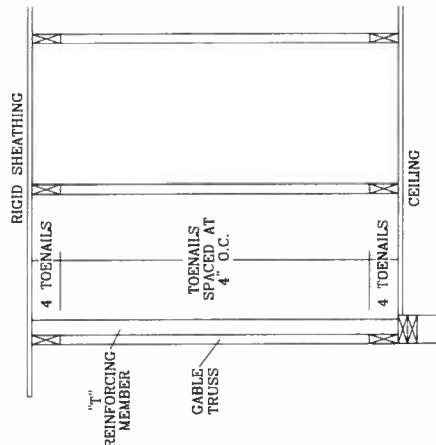
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ASCE 7-05 GABLE DETAIL DRAWINGS

A13015ES0207, A12015ES0207, A11015ES0207, A10015ES0207, A08015ES0207, A07015ES0207, A11030ES0207, A10030ES0207, A09030ES0207, A08030ES0207, A07030ES0207

SEE APPROPRIATE ALPINE GABLE DETAIL (ASCE OR SBCCI WIND LOAD) FOR MAXIMUM UNREINFORCED GABLE

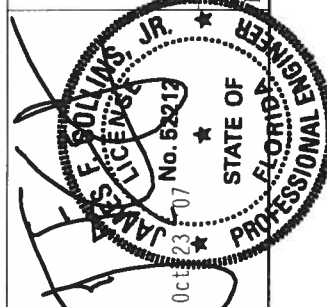
VERTICAL LENGTH.



ITW BUILDING COMPONENTS GROUP, INC.
POMPANO BEACH, FLORIDA

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSC (BUILDING COMPONENT SAFETY) INFORMATION PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 210 NORTH LEE ST., SUITE 312, ALEXANDRIA, VA 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA), 6300 ENTERPRISE LN., MADISON, WI 53719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATING FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSSES CONFORMANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC. BY AF&PA) AND THE ITW, BCG CONNECTOR PLATES ARE MADE OF 2018/16GA (W/H/SS/X) ASTM A653 GRADE 40/60 (W/K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604-2. ANY INSPECTION OF PLATES FOLLOWED BY (4) SHALL BE PER DESIGN. POSITION PER DRAWINGS 1604-2. THIS DESIGN IS THE PROPERTY OF ITW BUILDING COMPONENTS GROUP, INC. ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHALL BE THE DESIGNER, PER USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER, PER ANSI/TPI 1 SEC. 2.



THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

REF	LET-IN VERT
DATE	2/23/07
DRWG	GBLETTIN0207
-ENG	DLJ/KAR

MAX TOT. LD.	60 PSF
DUR. FAC.	ANY
MAX SPACING	24.0"

WIND SPEED AND MRH	"T" REINF. MBR. SIZE	SBCCI	ASCE
110 MPH	2x4	10 %	10 %
15 FT	2x6	40 %	50 %
110 MPH	2x4	10 %	10 %
30 FT	2x6	50 %	50 %
100 MPH	2x4	10 %	10 %
15 FT	2x6	30 %	50 %
100 MPH	2x4	10 %	10 %
30 FT	2x6	40 %	40 %
90 MPH	2x4	20 %	10 %
15 FT	2x6	20 %	40 %
90 MPH	2x4	10 %	10 %
30 FT	2x6	30 %	50 %
80 MPH	2x4	10 %	20 %
15 FT	2x6	10 %	30 %
80 MPH	2x4	20 %	10 %
30 FT	2x6	20 %	40 %
70 MPH	2x4	0 %	20 %
15 FT	2x6	0 %	20 %
70 MPH	2x4	10 %	20 %
30 FT	2x6	10 %	30 %

EXAMPLE:

ASCE WIND SPEED = 100 MPH

MEAN ROOF HEIGHT = 30 FT

GABLE VERTICAL = 24" O.C. SP #3

"T" REINFORCING MEMBER SIZE = 2X4

"T" BRACE INCREASE (FROM ABOVE) = 10% = 1.10

(1) 2X4 "L" BRACE LENGTH = 6' 7"

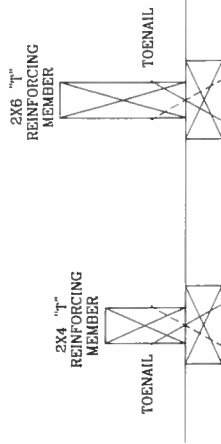
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH

1.10 x 6' 7" = 7' 3"

WEB LENGTH INCREASE W/ "T" BRACE

MAXIMUM ALLOWABLE "T" REINFORCED GABLE VERTICAL LENGTH IS 14' FROM TOP TO BOTTOM CHORD.

TO CONVERT FROM "L" TO "T" REINFORCING MEMBERS, MULTIPLY "T" FACTOR BY LENGTH (BASED ON GABLE VERTICAL SPECIES, GRADE AND SPACING) FOR (1) 2X4 "L" BRACE, GROUP A, OBTAINED FROM THE APPROPRIATE ALPINE GABLE DETAIL FOR ASCE OR SBCCI WIND LOAD.



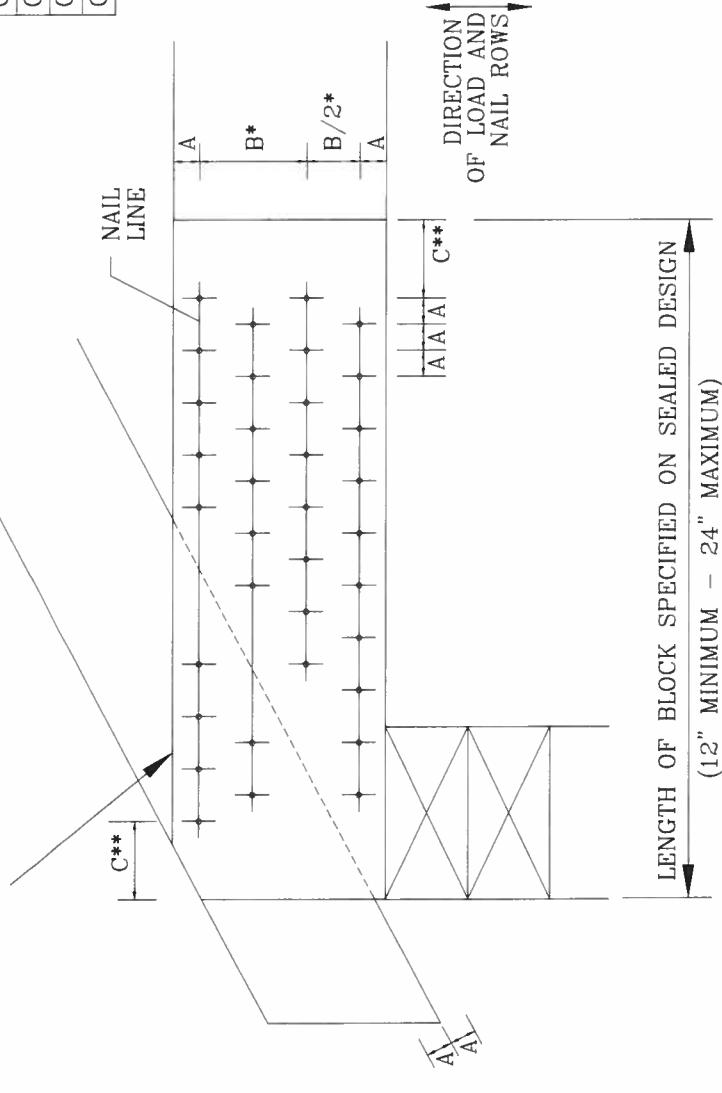
BEARING BLOCK NAIL SPACING DETAIL

MINIMUM SPACING FOR SINGLE BEARING BLOCK IS SHOWN. DOUBLE NAIL SPACINGS AND STAGGER NAILING FOR TWO BLOCKS. GREATER SPACING MAY BE REQUIRED TO AVOID SPLITTING.

- A - EDGE DISTANCE AND SPACING BETWEEN STAGGERED ROWS OF NAILS (6 NAIL DIAMETERS)
- B - SPACING OF NAILS IN A ROW (12 NAIL DIAMETERS)
- C - END DISTANCE (15 NAIL DIAMETERS)

IF NAIL HOLES ARE PREBORED, SOME SPACING MAY BE REDUCED BY THE AMOUNTS GIVEN BELOW:
• SPACING MAY BE REDUCED BY 50%
• SPACING MAY BE REDUCED BY 33%

BEARING BLOCK TO BE SAME SIZE AND SPECIES AS BOTTOM CHORD. BLOCKS MAY BE ANY GRADE WITHIN THE SPECIES. PROVIDED THE COMPRESSION PERPENDICULAR TO GRAIN VALUE (Fc-perp) IS AT LEAST THAT OF THE CHORD.



MAXIMUM NUMBER OF NAIL LINES PARALLEL TO GRAIN

NAIL TYPE	CHORD SIZE				
	2X4	2X6	2X8	2X10	2X12
8d BOX (0.113"X 2.5",MIN)	3	6	9	12	15
10d BOX (0.128"X 3",MIN)	3	5	7	10	12
12d BOX (0.128"X 3.25",MIN)	3	5	7	10	12
16d BOX (0.135"X 3.5",MIN)	3	5	7	10	12
20d BOX (0.148"X 4",MIN)	2	4	5	6	8
8d COMMON (0.131"X 2.5",MIN)	3	5	7	10	12
10d COMMON (0.148"X 3",MIN)	2	4	6	8	10
12d COMMON (0.148"X 3.25",MIN)	2	4	6	8	10
16d COMMON (0.162"X 3.5",MIN)	2	4	6	8	10
GUN (0.120"X 2.5",MIN)	3	6	8	11	14
GUN (0.131"X 2.5",MIN)	3	5	7	10	12
GUN (0.120"X 3",MIN)	3	6	8	11	14
GUN (0.131"X 3",MIN)	3	5	7	10	12

MINIMUM NAIL SPACING DISTANCES

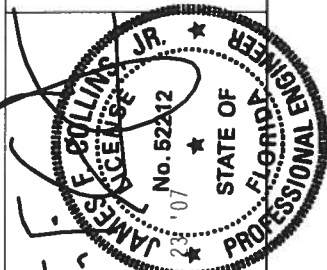
NAIL TYPE	DISTANCES		
	A	B*	C**
8d BOX (0.113"X 2.5",MIN)	3/4"	1 3/8"	1 3/4"
10d BOX (0.128"X 3",MIN)	7/8"	1 5/8"	2"
12d BOX (0.128"X 3.25",MIN)	7/8"	1 5/8"	2"
16d BOX (0.135"X 3.5",MIN)	7/8"	1 5/8"	2 1/8"
20d BOX (0.148"X 4",MIN)	1"	1 7/8"	2 1/4"
8d COMMON (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"
10d COMMON (0.148"X 3",MIN)	1"	1 7/8"	2 1/4"
12d COMMON (0.148"X 3.25",MIN)	1"	1 7/8"	2 1/4"
16d COMMON (0.162"X 3.5",MIN)	1"	2"	2 1/2"
GUN (0.120"X 2.5",MIN)	3/4"	1 1/2"	1 7/8"
GUN (0.131"X 2.5",MIN)	7/8"	1 5/8"	2"
GUN (0.120"X 3",MIN)	3/4"	1 1/2"	1 7/8"
GUN (0.131"X 3",MIN)	7/8"	1 5/8"	2"

THIS DRAWING REPLACES DRAWING B139 AND CNBRGBLK0699

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND ERECTING. THE BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY THE TRUSS ASSOCIATION OF AMERICA, 6300 ENTERPRISE LN, MADISON, WI 53719, FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ITV BCG, INC. SHALL FURNISH THE TRUSS AND BEARING BLOCKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE BUILDING DESIGN, CONSTRUCTION, AND THE APPLICABLE PROVISIONS OF NDS, NATIONAL DESIGN SPEC. BY AIA/PAI AND PL. GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-2. ANY INSPECTION OF PLATES FOLLOWED BY (C) SHALL BE PER ANNEX A3 OF TPI 1-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER ANSI/TPI 1 SEC. 2.

REF	BEARING BLOCK
DATE	2/23/07
DRWG	CNBRGBLK0207
-ENG	SJP/KAR



ALPINE

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POMPANO BEACH, FLORIDA