

ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 1 of 2 Document ID: IT938228Z0116132604

Truss Fabricator: Anderson Truss Company
Job Identification: 7-140B--Isaac Construction Jeremy Cady -- , **
Truss Count: 127
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.36, 7.25.
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 - 90 MPH ASCE 7-02 -Closed



Seal Date: 07/16/2007

-Truss Design Engineer-
James F. Collins Jr.

Florida License Number: 52212
1950 Marley Drive
Haines City, FL 33844

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: HCUSR8228

Details: PIGBACKA-PIGBACKB-A11015EE-GBLLETIN-BRCLBSUB-A11030EE-A11015EC-TCFILLER-BCFILLER-REPBCFIL-

#	Ref	Description	Drawing#	Date
1	81159--AP9		07197007	07/16/07
2	81160--A6		07197001	07/16/07
3	81161--A7		07197002	07/16/07
4	81162--A8		07197003	07/16/07
5	81163--A14-GE		07197018	07/16/07
6	81164--A10		07197022	07/16/07
7	81165--A15		07197023	07/16/07
8	81166--A5		07197004	07/16/07
9	81167--A2		07197031	07/16/07
10	81168--A6G		07197008	07/16/07
11	81169--A1-GE		07197046	07/16/07
12	81170--A12		07197006	07/16/07
13	81171--A2		07197058	07/16/07
14	81172--A3		07197009	07/16/07
15	81173--A4		07197094	07/16/07
16	81174--A11		07197007	07/16/07
17	81175--A13		07197005	07/16/07
18	81176--B5G		07197002	07/16/07
19	81177--B7		07197005	07/16/07
20	81178--BP5		07197006	07/16/07
21	81179--B6		07197008	07/16/07
22	81180--MGB		07197009	07/16/07
23	81181--B8		07197019	07/16/07
24	81182--B3		07197020	07/16/07
25	81183--B2		07197029	07/16/07
26	81184--B4		07197030	07/16/07
27	81185--B13		07197010	07/16/07
28	81186--B10		07197053	07/16/07
29	81187--B12		07197076	07/16/07
30	81188--B9G		07197087	07/16/07
31	81189--B14		07197011	07/16/07
32	81190--B11		07197089	07/16/07
33	81191--B1		07197109	07/16/07
34	81192--C1		07197063	07/16/07
35	81193--C4		07197093	07/16/07
36	81194--C2		07197097	07/16/07

#	Ref	Description	Drawing#	Date
37	81195--C3		07197098	07/16/07
38	81196--D1		07197074	07/16/07
39	81197--D2		07197079	07/16/07
40	81198--D5		07197082	07/16/07
41	81199--D6		07197086	07/16/07
42	81200--D4		07197090	07/16/07
43	81201--D3		07197092	07/16/07
44	81202--HJR2		07197001	07/16/07
45	81203--JB2		07197011	07/16/07
46	81204--JB1		07197012	07/16/07
47	81205--EJB		07197013	07/16/07
48	81206--JB5		07197014	07/16/07
49	81207--JB4		07197015	07/16/07
50	81208--JB3		07197017	07/16/07
51	81209--JB6		07197021	07/16/07
52	81210--JS7		07197027	07/16/07
53	81211--JR4		07197033	07/16/07
54	81212--JR1		07197034	07/16/07
55	81213--JR2		07197035	07/16/07
56	81214--HJS		07197036	07/16/07
57	81215--JS5		07197042	07/16/07
58	81216--JS4		07197043	07/16/07
59	81217--JS1		07197048	07/16/07
60	81218--JR5		07197049	07/16/07
61	81219--JS2		07197050	07/16/07
62	81220--EJK		07197051	07/16/07
63	81221--JS3		07197055	07/16/07
64	81222--HJR1		07197056	07/16/07
65	81223--JK3		07197057	07/16/07
66	81224--JR3		07197062	07/16/07
67	81225--JK1		07197066	07/16/07
68	81226--HJK1		07197068	07/16/07
69	81227--JC3		07197069	07/16/07
70	81228--JK2		07197070	07/16/07
71	81229--HJC		07197071	07/16/07
72	81230--JC1		07197072	07/16/07



ITW Building Components Group, Inc.

1950 Marley Drive Haines City, FL 33844
Florida Engineering Certificate of Authorization Number: 567
Florida Certificate of Product Approval # FL1999
Page 2 of 2 Document ID:1T938228Z0116132604

Truss Fabricator: Anderson Truss Company
Job Identification: 7-140B--Isaac Construction Jeremy Cady -- , **
Truss Count: 127
Model Code: Florida Building Code 2004 and 2006 Supplement
Truss Criteria: ANSI/TPI-2002(STD)/FBC
Engineering Software: Alpine Software, Versions 7.36, 7.25.
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 - 90 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: HCUSR8228

Seal Date: 07/16/2007

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

Details: PIGBACKA-PIGBACKB-A11015EE-GBLLETIN-BRCLBSUB-A11030EE-A11015EC-TCFILLER-BCFILLER-REPBCFIL-

#	Ref	Description	Drawing#	Date
73	81231--HJK2		07197078	07/16/07
74	81232--EJC		07197080	07/16/07
75	81233--JC4		07197081	07/16/07
76	81234--JC2		07197083	07/16/07
77	81235--JC6		07197084	07/16/07
78	81236--JC5		07197085	07/16/07
79	81237--JS6		07197101	07/16/07
80	81238--HJB1		07197108	07/16/07
81	81239--K2		07197052	07/16/07
82	81240--K4G		07197060	07/16/07
83	81241--K1G		07197061	07/16/07
84	81242--K3		07197067	07/16/07
85	81243--BP4		07197003	07/16/07
86	81244--BP6		07197004	07/16/07
87	81245--AP8		07197012	07/16/07
88	81246--SP4		07197024	07/16/07
89	81247--AP3		07197025	07/16/07
90	81248--AP2		07197026	07/16/07
91	81249--BP3		07197028	07/16/07
92	81250--AP4		07197037	07/16/07
93	81251--AP7		07197038	07/16/07
94	81252--AP6		07197039	07/16/07
95	81253--AP5		07197040	07/16/07
96	81254--SP1		07197044	07/16/07
97	81255--BP1		07197045	07/16/07
98	81256--SP3		07197047	07/16/07
99	81257--CP1		07197054	07/16/07
100	81258--BP9		07197073	07/16/07
101	81259--CP3		07197075	07/16/07
102	81260--BP8		07197077	07/16/07
103	81261--BP7		07197088	07/16/07
104	81262--DP1		07197095	07/16/07
105	81263--CP2		07197096	07/16/07
106	81264--DP2		07197099	07/16/07
107	81265--DP3		07197013	07/16/07
108	81266--DP4		07197100	07/16/07

#	Ref	Description	Drawing#	Date
109	81267--BP2		07197102	07/16/07
110	81268--DP5		07197103	07/16/07
111	81269--DP6		07197104	07/16/07
112	81270--DP7		07197105	07/16/07
113	81271--KP1		07197106	07/16/07
114	81272--AP1		07197107	07/16/07
115	81273--R2		07197010	07/16/07
116	81274--R1G		07197032	07/16/07
117	81275--R3		07197064	07/16/07
118	81276--S5		07197016	07/16/07
119	81277--S4		07197041	07/16/07
120	81278--S2		07197059	07/16/07
121	81279--S3		07197065	07/16/07
122	81280--S1		07197091	07/16/07
123	81281--X2		07197018	07/16/07
124	81282--X1-GE		07197014	07/16/07
125	81283--Z2		07197015	07/16/07
126	81284--Z1		07197016	07/16/07
127	81285--Z3-GE		07197017	07/16/07



Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

110 mph wind, 32.08 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=2.0 psf $I_w=1.00$ $G_{cpi}(+/-)=0.18$

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

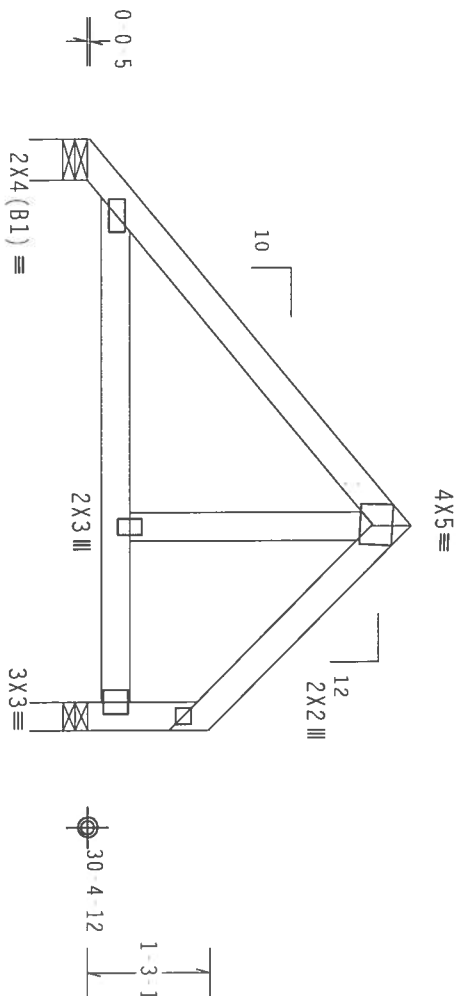
Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.

Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

SPECIAL LOADS
LUMBER DUR.FAC. = 1.25 / **PLATE** DUR.FAC. = 1.25)
 TC From 66 PLF at 0.62 to 66 PLF at 3.36
 TC From 68 PLF at 3.36 to 68 PLF at 5.45
 BC From 4 PLF at 0.62 to 4 PLF at 5.45

Wind reactions based on MMFRS pressures.

Bottom chord checked for 20.00 psf non concurrent live load



PLT TYP. Wave

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

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424

QTY:2

FL/-/4/-/-/R/-

Scale = .5"/Ft.

*WARNING: THIS BUILDING EXHIBITS CRACKS IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC'S (INCLUDING CONTRACTOR SAFETY INFORMATION), PUBLISHED BY THE CRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA (GOOD) TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MIDLOTHIAN, VA, 23113 FOR SAFETY PRECAUTIONS PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATE'S AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED FIELD CEILING.


****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH T-01, OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

CONNECTOR PLATES ARE MADE OF 20/10/166A (N, M/SS/K) ASTM A563 GRADE 40/60 (N, K/H, SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A Z

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX A3 OF TPII 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLELY FOR THE TRUSS COMPONENTS OF THE DESIGN SHOWN, THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.

BUILDING DESIGNER PER ANSI Z39.1 SEC. 2.

TC LL	20.0 PSF	REF	R8228- 81159
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07197007
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEQN-	2578
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T938228Z01



ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
Ft. Certificate of Authorization # 677

Wind reactions based on MAFRS pressures.

Calculated horizontal deflection is 0.17" due to live load and 0.31" due to dead load.

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

Collar tie braced with continuous lateral bracing at 24" OC. or rigid ceiling.

Deflection meets $L/360$ live and $L/240$ total load. Creep increase factor for dead load is 1.50.



PLT TYP. 20 Gauge HS, Wave

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

QTY:1

FL/-/4/-/-/R/-/

Scale = .125"/ft.

[illegible]

2 COMPLETE TRUSSES REQUIRED

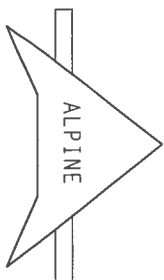
Nailing Schedule: (12d Box or Gun @ 0.128"x3
 Top Chord: 1 Row @ 12.00" o.c.
 Bot Chord: 1 Row @ 12.00" o.c.
 Webs : 1 Row @ 4" o.c.
 Use equal spacing between rows and stagger nailing
 in each row to avoid splitting.

Right end vertical exposed to wind pressure. Deflection meets $L/240$ criteria for brittle and flexible wall coverings.

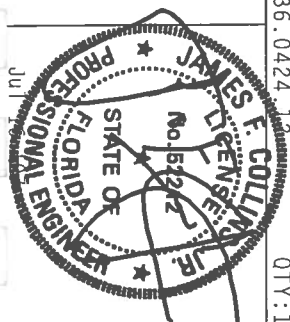
(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 23-11-5 to 33-11-5.



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



TC LL	20.0 PSF	REF	R8228- 81160
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197001
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEQN-	2775
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

REF	R8228- 81161
DATE	07/16/07
DRW	HCUSR8228 07197002
HC-ENG	TCE/WHK
SEQN-	2840
JREF -	1T938228Z01

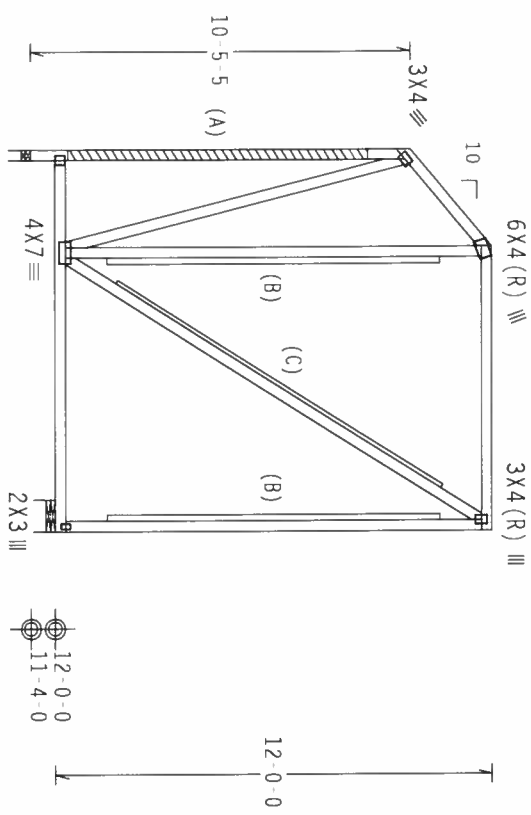
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

(C) 1x4 #3 or better "T" brace, 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5",min.)nails @ 6" OC.

(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3",min.)nails @ 6" OC.

Leg down designed for vertical loads only.



110 mph wind, 22.89 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 8C DL=5.0 psf, lw=1.00 Gcpi(+/-)=0.18

End verticals not exposed to wind pressure.

(B) 2x6 #3 or better "T" brace, 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5",min.)nails @ 6" OC.

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

Bottom chord checked for 20.00 psf non concurrent live load.

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

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

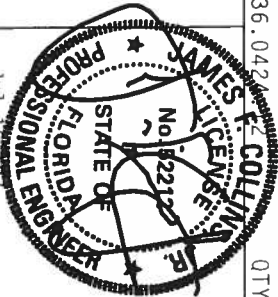
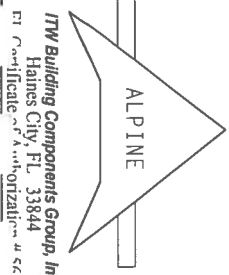
QTY:1 FL/-/4/-/R/-

Scale = .1875"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. TRUSSES MUST BE DESIGNED TO BE PROTECTED FROM DAMAGE TO THE TRUSS PLATE INFORMATION. 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LANE, MOULSON, WI 53219) 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. TTM 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 AIA/A) AND TPI. TTM BCG CONNECTION PLATES ARE MADE OF 70/18/16GA (W/H/SS) ASH 6063 GRADE 40/60 (W/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. DON'T. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002(SEC. 3) FOR THE TRUSS COMPONENT. DRAWING SYMBOLS INDICATE THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ASCE/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 81162
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197003
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEON-	2820
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T938228201

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense

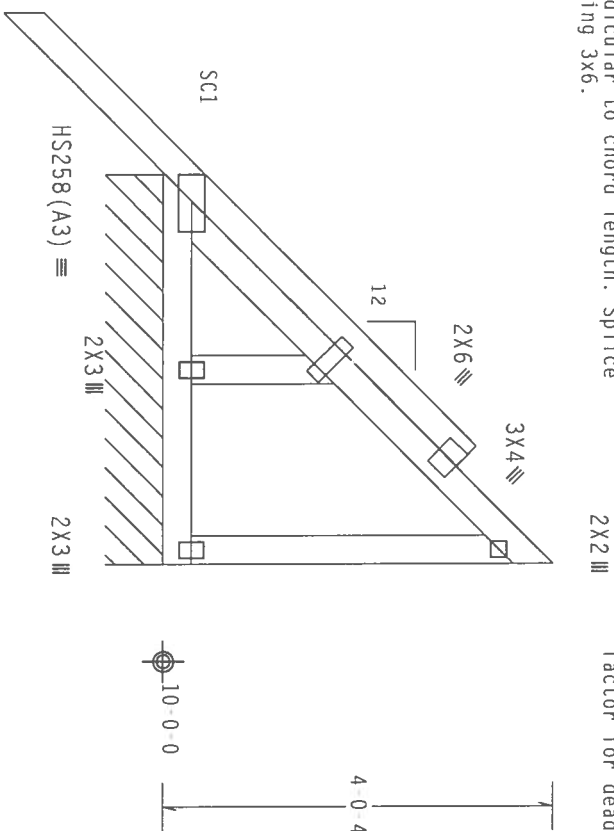
```

webs 2x4 SP #3
:Stack Chord SCI 2x4 SP #2 Dense:

```

See DWGS A11015EE0207 & GBLETTIN0207 for more requirements.

Stacked top chord must NOT be notched or cut in area (NNL).
Dropped top chord braced at 24" o.c. intervals. Attach stacked top chord (SC) to dropped top chord in notchable area using 3/4" tie plates 24" o.c. Center plate on stacked/dropped chord interface, plate length perpendicular to chord length. Splice top chord in notchable area using 3x6.



110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 GCPI(+/-)=0.18

Wind reactions based on MAFRS pressures.

Right end vertical not exposed to wind pressure.

Bottom chord checked for 20.00 psf non-concurrent live load.

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

PLT TYP. 20 Gauge HS, Wave

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

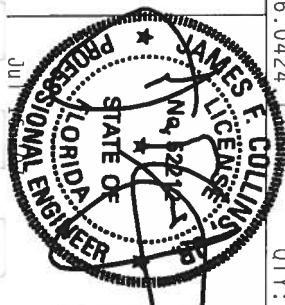
QTY:1 FL/-/4/-/-/R/-

Scale = .5"/Ft.

*****WARNING***** FRAMES BEING DISMANTLED. LIFTING, SHIPPING, INSTALLING AND BRACING
 REFER TO GC51 (BUILDING COMPONENT SPECIFIC INFORMATION). PUBLISHED BY TPI (TRUSS PRACTICE INSTITUTE), 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 65000
 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIRABLE
 OVERSTRESS INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
 PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
F1 Certificate # A-1110710121 # 567



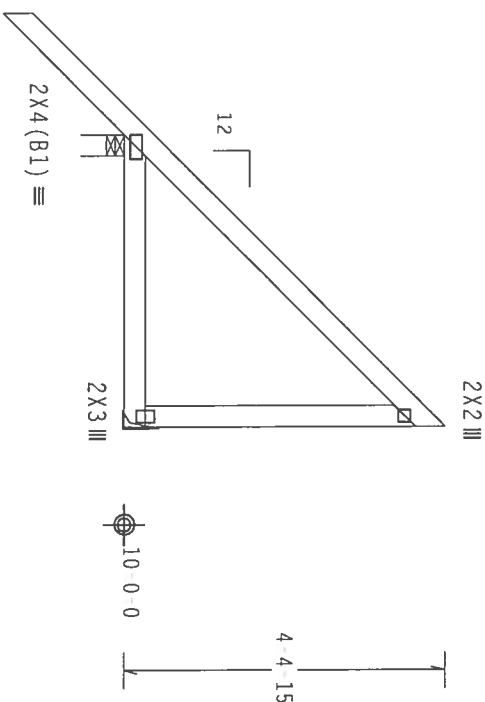
TC LL	20.0 PSF	REF	R8228- 81163
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07197018
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2337
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wabs	2x4	SP	#3	

Bottom chord checked for 20.00 psf non-concurrent live load.

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

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



1-8-0

4-0-0 Over 2 Supports
R=338 W=3.5" R=156 U=46

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424

QTY: 6

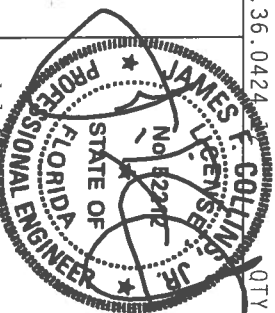
FL/-/4/-/-/R/-

Scale = .375"/Ft.

*****WARNING***** TRUCKS, ROLLING EXTERIOR CASE, IN FABRICATION, HANDLING, SHIPPING, AND PRACTICING REFER TO GC51 (BUILDING COMPONENT SPECIFICATION), PUBLISHED BY PCI (CONCRETE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), ENTERPRISE SQUARE, MADISON, WI 53703 FOR SAFETY PRACTICES PRIOR TO TURNING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CELLING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
Certificate of Authorization # 4667



TC LL	20.0 PSF	REF	R8228- 81165
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197023
BC LL	0.0 PSF	HC-ENG JB/WHK	*
TOT.LD.	40.0 PSF	SEQN-	2353
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense :B3, B5 2x10 SP SS.
Webs 2x4 SP #3 :W9 2x6 SP #2:
:W10, W11 2x4 SP #2 Dense:

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 20.00 psf non concurrent live load.

Collar tie braced with continuous lateral bracing at 24" OC. on rigid ceiling.

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

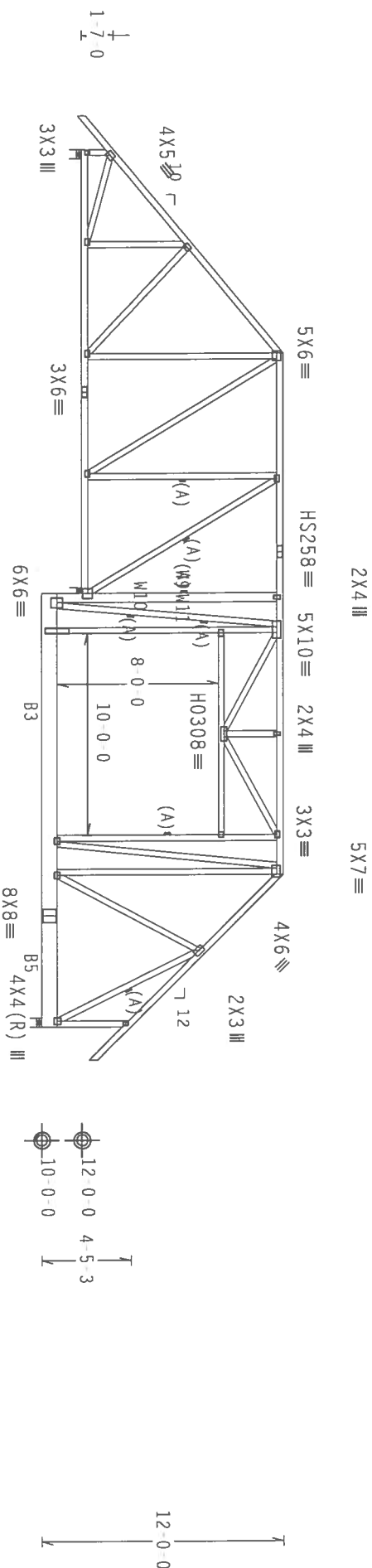
110 mph wind, 17.10 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, Cat II, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 gcpi(+/-)=0.18

Wind reactions based on MWFRS pressures.

Right end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

BC attic room floor loading: LL = 40.00 psf; DL = 10.00 psf; from 23-11-5 to 33-11-5.



Note: A11 Plates Are 3X4 Except As Shown.

PLT TYP. 20 Gauge HS, Wave

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

QTY

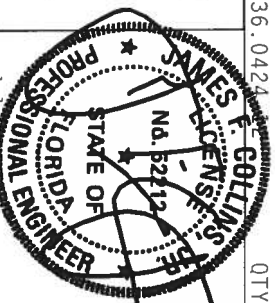
QTY: 7 FL/-/4/-/-/R/-

Scale = .125"/Ft.

*WARNING: THESE REDUCED EXHIBIT CANNOT BE FABRICATED, SHIPPED, INSTALLING AND BRACING TO BECAUSE OF BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY FBI (FBI) 1981-1982, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MFC (6000) TRUSS COMPANY OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719 FOR SAFETY PRACTICES, PRIOR TO PERFORMING THESE FUNCTIONS, UNLESS OTHERWISE INDICATED FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GROUND SHALL HAVE A PROPERLY ATTACHED BRIDGECALLING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
To Qualify Call 800-447-5577



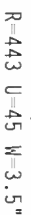
FL/-/4/-/-/R/-		Scale = .125"/Ft.	
TC LL	20.0 PSF	REF	R8228- 81166
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197004
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEQN-	2867
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

110 mph wind, 15.75 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. $I_w=1.00$ Gcpi (+/-)=0.18

Right end vertical not exposed to wind pressure.

(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.
Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.



Scale = .1875"/Ft.

JAMES F. COLLINGS
LICENSE
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
83

TC LL	20.0 PSF
TC DL	10.0 PSF

REF	R8228 - 81167
DATE	07/16/07



Professional Engineer

DUR.FAC.	1.25
SPACING	24.0"

JREF - 1T938228Z01

2 COMPLETE TRUSSES REQUIRED

Waiting Schedule: (12d Box or Gun (0.128"x3.25", min.) nails)
 Top Chord: 1 Row @12.00" o.c.

```
webs      : 1 Row @ 4" O.C.
```

110 mph wind, 17.10 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 6.50 ft from roof edge, CAT II, EXP B, wind TD
 DL=5.0 psf, wind BC DL=5.0 psf $I_w=1.00$ Gcpi(+/-)=0.18

on meets

load ar

f web me
OC.

(B) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

HS258 = 3Y6 = 7



43-6-0 Over 3 Supports $\overline{\hspace{10em}}$
 $R=2763 \quad U=335 \quad W=3.5''$ $R=1361 \quad U=165 \quad W=5.5''$

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

7.36.0424

QTY:1

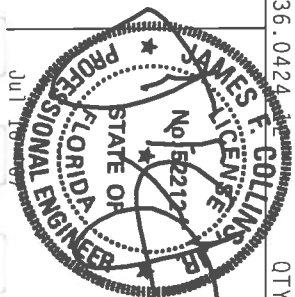
FL/-/4/-/-/R/-/

Scale = .125"/Ft.

TO BRACING
TUTE, 218
A. 6300
i. UNLESS
SHALL HAVE

SHALL NOT
ICE WITH

5 COMPONENT
ITY OF THE



TC LL	20.0 PSF	REF	R8228 - 81168
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197008
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEON -	2785
DUR.FAC.	1.25		
SPACING	SEE ABOVE	JREF -	1T938228201

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense : B3 2x6 SP #2:
Web	2x4	SP	#3	:W12 2x4 SP #2 Dense:

(LUMBER DUR.FAC. 1.25 / PLATE DUR.FAC. 1.25)

LC	From 08 PLF at 1.67 to 108 PLF at 4.47	
TC	From 108 PLF at 4.47 to 108 PLF at 32.46	
BC	From 5 PLF at 1.67 to 5 PLF at 0.00	
BC	From 20 PLF at 0.00 to 20 PLF at 21.96	
BC	From 20 PLF at 21.96 to 20 PLF at 32.46	
PLB	476 LB Conc. Load at (23.56,10.04), (25.56,10.04), (27.56,10.04), (29.56,10.04), (31.56,10.04), (31.94,10.04)	

Bottom chord checked for 20.00 psf non concurrent live load.

See DWGS A11015EC0207 & GBLETTIN0207 for more requirements.

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 Gcpl(+/-) 0.18

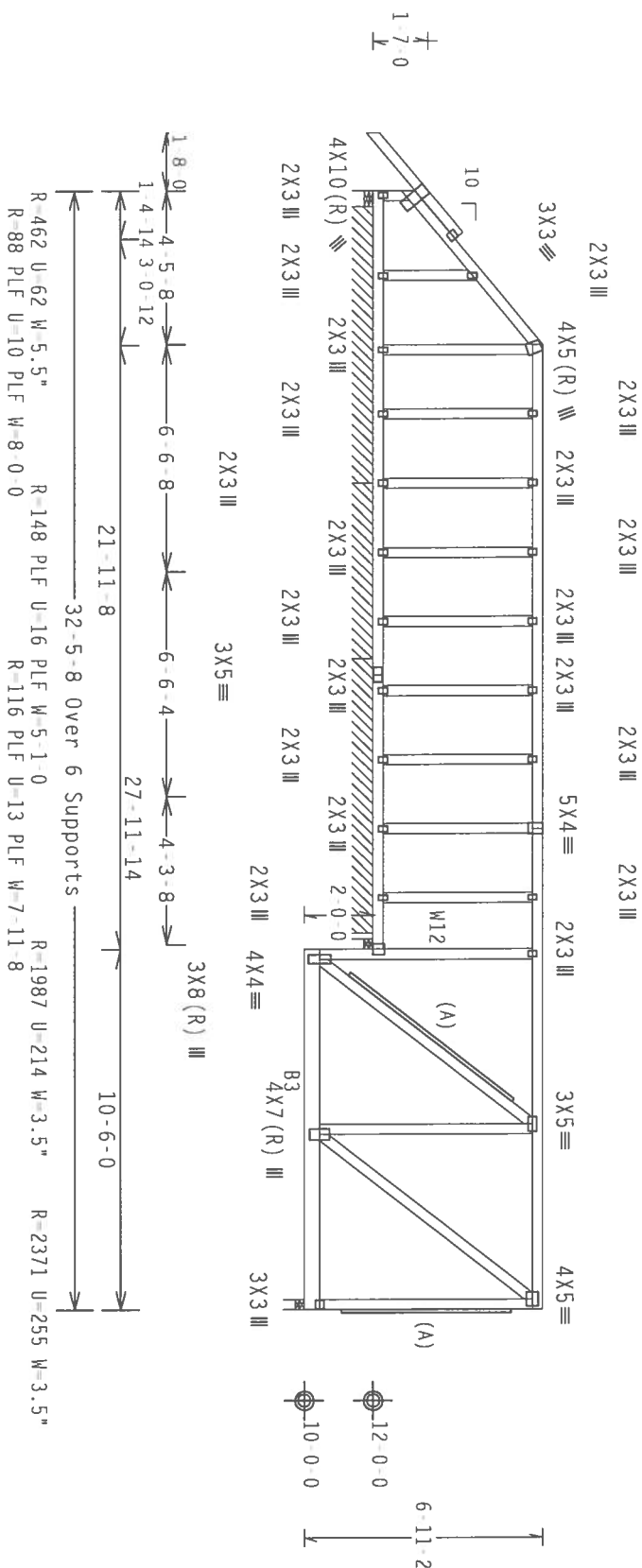
Wind reactions based on MAFRS pressures.

Right end vertical not exposed to wind pressure.

(A) 1x4 #3 or better "L" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5".min.) nails @ 6" OC.

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.



PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC
Cq/RT=1.00(1.25)

$$\overline{0(0)0}$$

QTY:1	36.042	11-2 COLT
-------	--------	-----------

QTY:1

FL/-/4/-/-/R/-/

Scale = .1875"/Ft.

WARNING FRAMES BUILDING EXHIBIT CASE IN FABRICATION, SHIPPING, INSTALLING AND BRACING REFER TO GC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED CHORD CEILING.

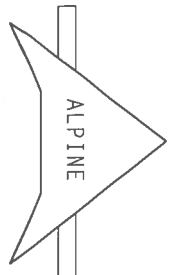
****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITH BCG, INC. SMALL NOT

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IT; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

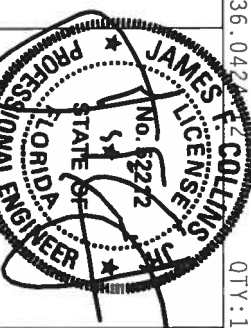
DISK CORNERS WITH APPLICABLE PROVISIONS OF 805 (ADDITIONAL GRADE SPEC. BY A191A) AND T11. THE BEARING PLATES ARE MADE OF 20/10/16GA (H/H/55K) ASTM A563 GRADE 40/60 (H, K/H, 55) GALV. STEEL. APPLY CONNECTOR PLATES TO EACH FACT OR END AND WELDS ATTACHED TO THIS DESIGN. POSITION PER DRAWINGS 16GA 2 PLATES TO EACH FACT OR END AND WELDS ATTACHED TO THIS DESIGN. POSITION PER DRAWINGS 16GA 2

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMENAS OF TPII 2002 SEC.3.

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/FP1 1 SEC. 2.



ITW Building Components Group, Inc.
Haines City, FL 33844
Certificate of Authorization # 667



100

TC LL	20.0 PSF	REF	R8228- 81169
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197046
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2369
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

Bottom chord checked for 20.00 psf non-concurrent live load.

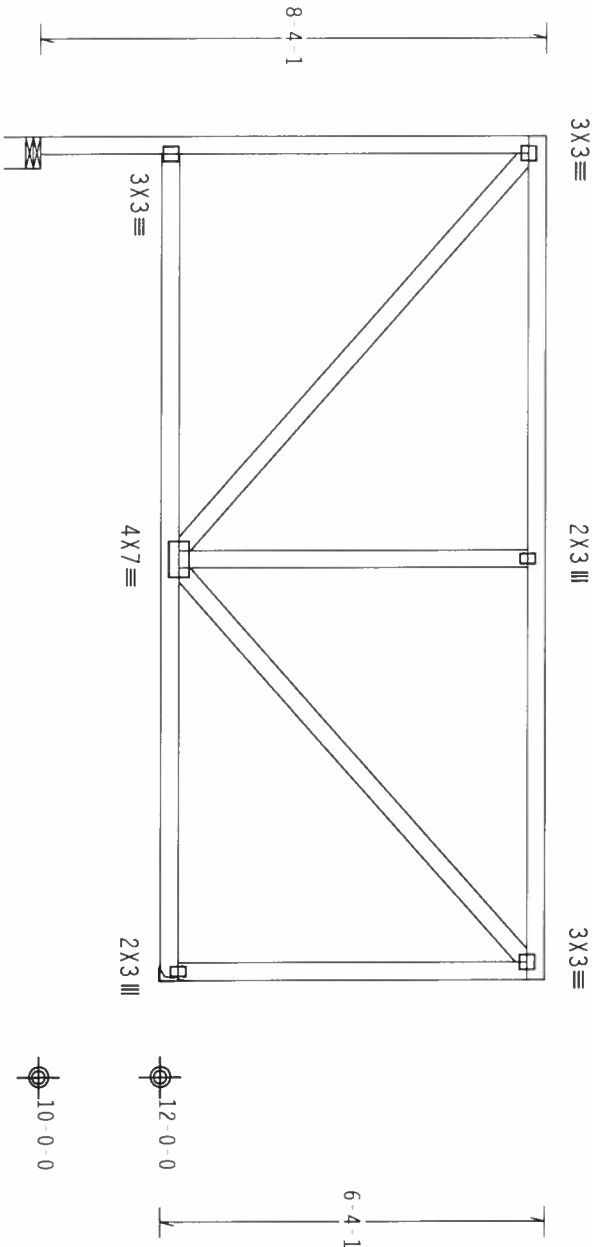
Truss must be installed as shown with top chord up.

Leg down designed for vertical loads only.

110 mph wind, 18.34 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI (+/-)=0.18

End verticals not exposed to wind pressure.

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



13-10-8 Over 2 Supports
R=555 U=90 W=6.278"
R=549 U=89

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

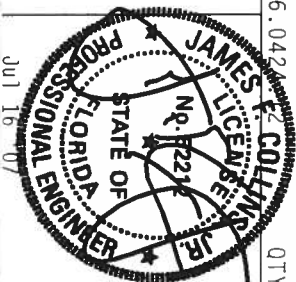
QTY: 1 FL/-/4/-/R/-

Scale = .3125"/ft.

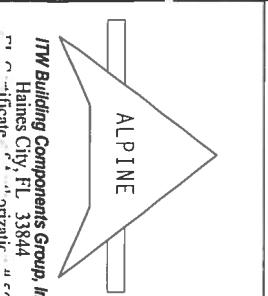
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK (GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HAZLETON, PA 15719) 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 *ORIGINATOR A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE 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 2002 NATIONAL DESIGN SPEC. BY AIA/PAI AND TPI. THE BCG CONNECTION OF PLATES TO TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 160A 2. DRAWING INDICATES 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	REF R8228- 81170
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUR8228 07197006
BC LL	0.0 PSF	HC-ENG TCE/WHK
TOT.LD.	40.0 PSF	SEON- 2750
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 11938228201



Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	:W9 2

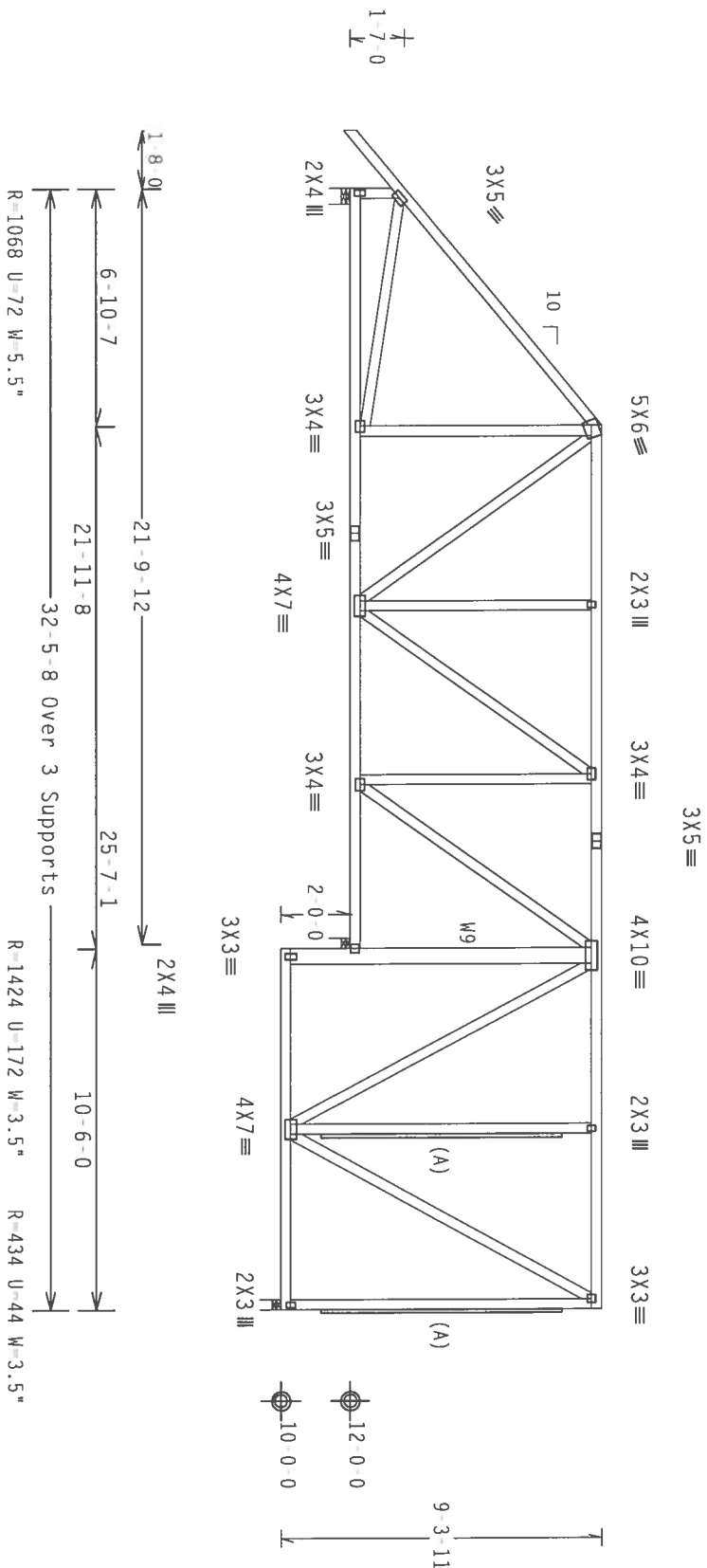
(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.

110 mph wind, 15.75 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. $lw/1.00 G_{CPI}(+/ -) = 0.18$

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.



PLT TYP. Wave

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

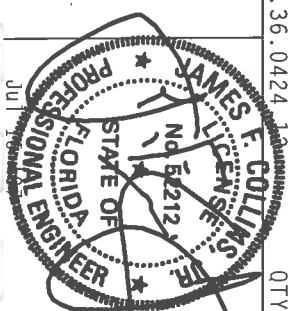
7.36.0424 12 QTY:1 FL/-/4/-/R/-

Scale = .1875"/Ft.

WARNING THESE BUILDING EXISTENCE CASES FOR FABRICATION, HANDLING, SHIPPING, INSTALLING, AND BRACING REFER TO SPEC. (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND K&S TRUSS COMPANY OF AMERICA, 6500 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.

ALPINE

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



FC LL	20.0 PSF	REF	R8228- 81171
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197058
BC LL	0.0 PSF	HC-ENG JB/WHK	
TOT.LD.	40.0 PSF	SEQN-	2280
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

(A) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

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

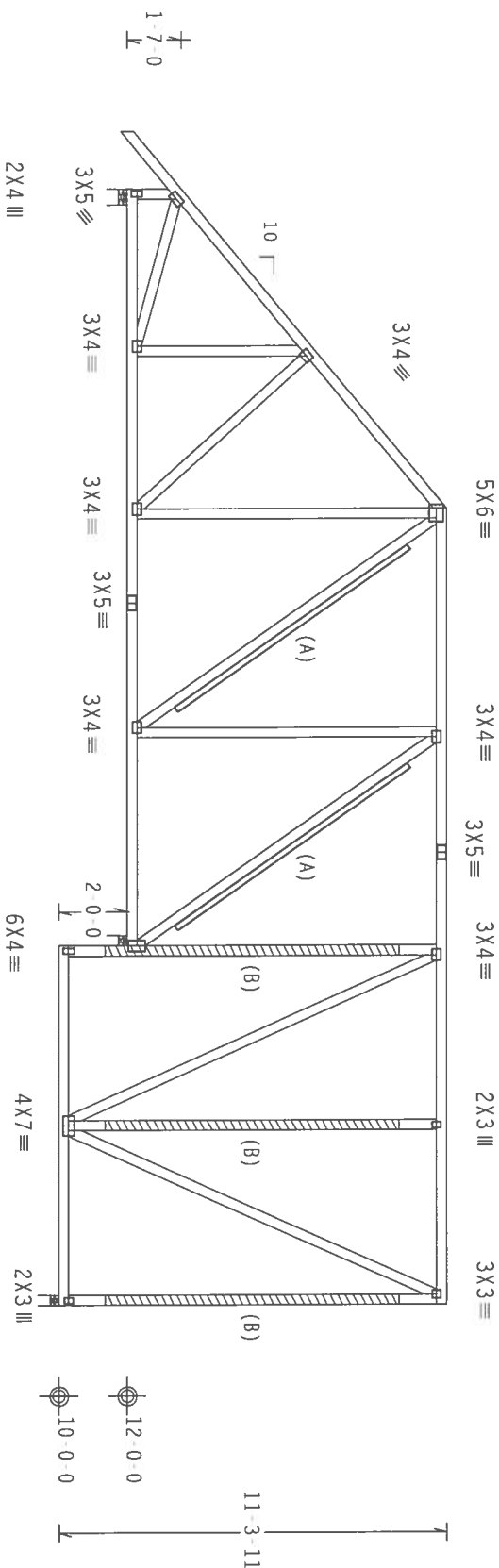
110 mph wind, 16.75 ft mean hgt, ASCE 7-02, closed bldg, not located within 4.50 ft from roof edge, CAT 11, Exp B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)-0.18

Right end vertical not exposed to wind pressure.

(B) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.

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



1-8 01

21-9-12

2X4 III

9-3-4

21-11-8

32-5-8 Over 3 Supports

23-2-4

10-6-0

R-1063 U-59 W-5.5"

R-1426 U-205 W-3.5"

R-437 U-47 W-3.5"

PLT TYP. Wave

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

$$Cq/RT = 1.00(1.25)/10(0)$$

QTY:1

FL/-/4/-/-/R/-

Scale = .1875"/Ft.

WARNING: *** TRIPS (LOADING EXHIBIT) CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PRACTICE
 REFER TO BEST (LOADING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218
 HORTON LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICHAEL GOOD TRUSS COMPANY OF AMERICA, 63000
 ENTERPRISE LANE, HADSDON, MI 48139 FOR SAFETY PRACTICES AND PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIRABLE
 OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
 PROPERLY ATTACHED TOP CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

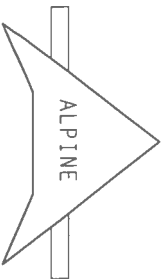
BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN; ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH IT; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AREA) AND TPI. STEEL BEAMS ARE MADE OF 20/18/16GA (W, H, SS/K) ASTM A653 GRADE 40/60 (W, K/H, SS) GALV. STEEL. APPLY

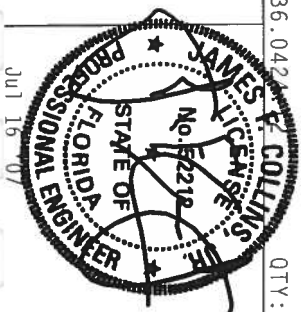
PLATES TO EACH SECTION CROSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS TOOK ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11 2002 SEC.3. A SEAL ON THIS SIDE DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOCIETY FOR THE BRIDGE CONSTRUCTION.

DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER. PER AIA/CES 1.0 SEC. 2.

100



ITW Building Components Group, Inc.
Haines City, FL 33844
Tel. 800-451-7464 • Fax 800-451-7467



FL/-/4/-/-/R/-		Scale = .1875"/Ft.	
TC LL	20.0 PSF	REF	R8228- 81172
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197009
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEQN-	2883
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 : W3 2x6 SP #2:

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

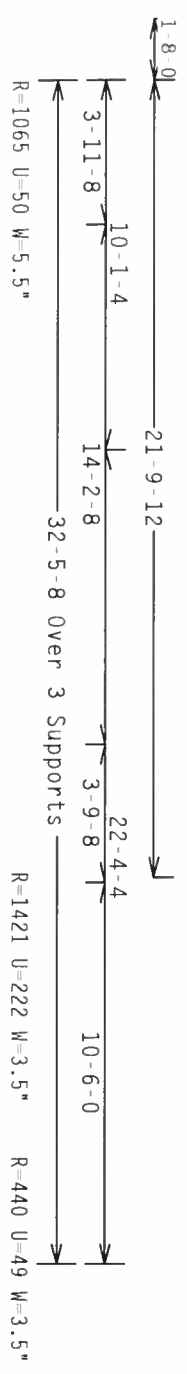
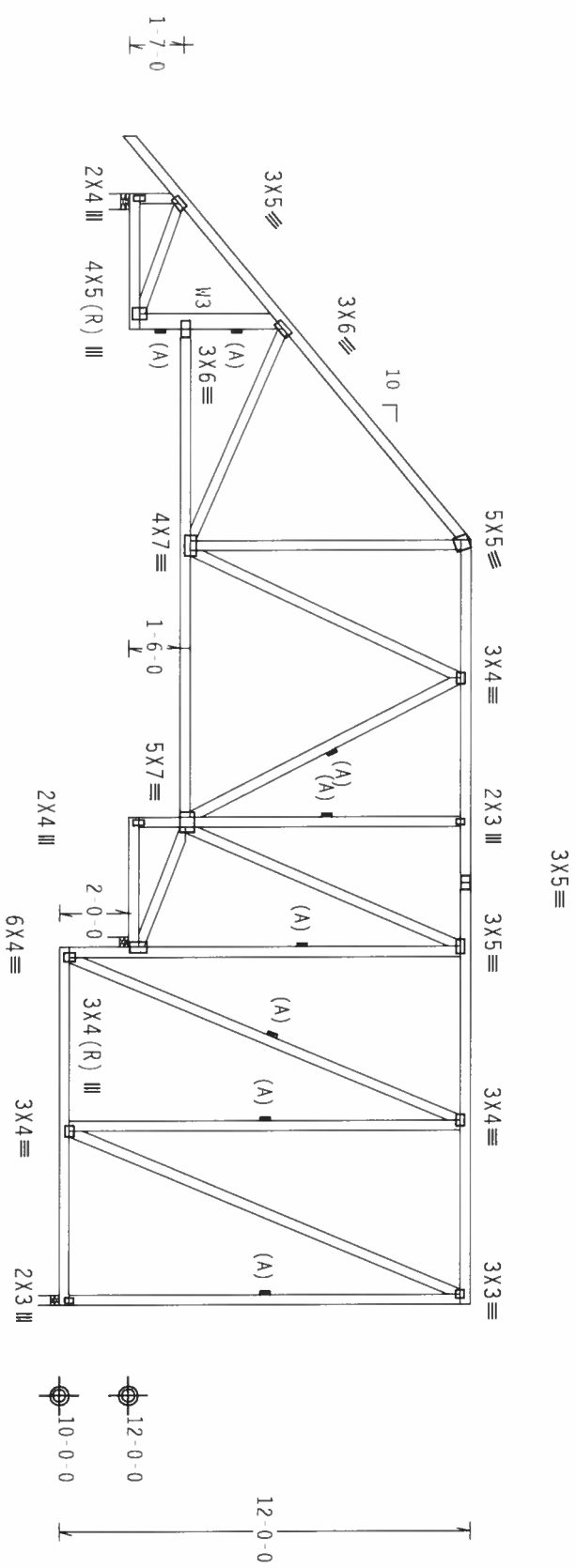
Bottom chord checked for 20.00 psf non-concurrent live load.

110 mph wind, 17.10 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. $I_w=1.00$ $G_{cpi}(+/-)=0.18$

Right end vertical not exposed to wind pressure.

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.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

QTY:1

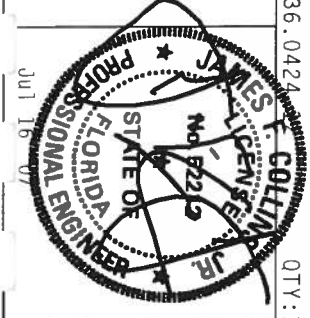
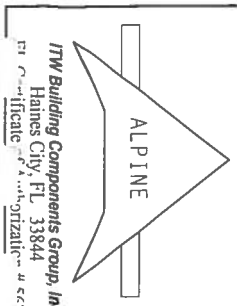
FL/-/4/-/R/-

Scale = .1875" / ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE 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 TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI 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.

THIS DESIGN IS THE PROPERTY OF TPI BCG, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM. ANY VIOLATION OF THIS DESIGN SHALL BE CONSIDERED A VIOLATION OF THE BUILDING CODES AND THE BUILDING DESIGNER SHALL BE RESPONSIBLE FOR THE DESIGN OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



1	FL/-/4/-/-/R/-	Scale = .1875"/Ft.
TC LL	20.0 PSF	REF R8228- 81173
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUR8228 07197094
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 2378
DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T938228201

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webs	2x4	SP	#3	

Bottom chord checked for 20.00 psf non-concurrent live load.

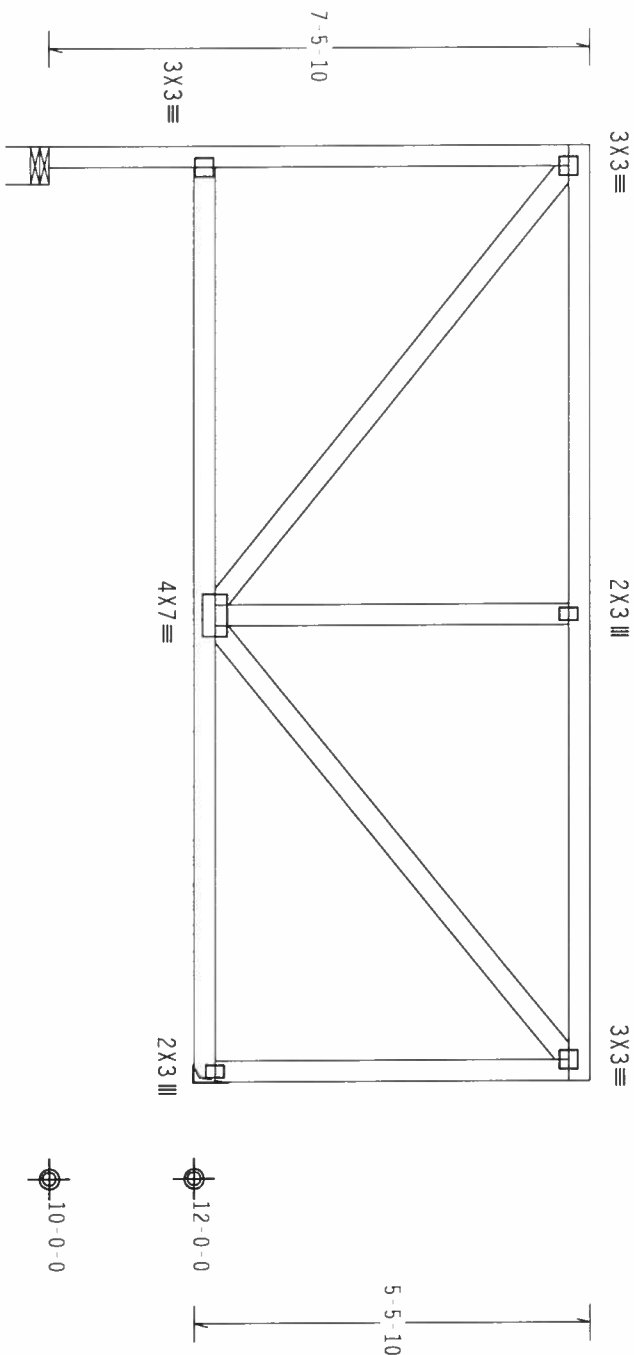
Truss must be installed as shown with top chord up.

Leg-down designed for vertical loads only.

110 mph wind, 17.47 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC D1=5.0 psf, wind BC D1=5.0 psf Iw=1.00 GCPI(+/-)=0.18

End verticals not exposed to wind pressure.

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



PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424 1

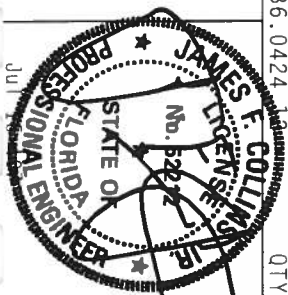
QTY:1 FL/-/4/-/-/R/-

Scale = .375"/Ft.

WARNING: *** TRUSS REQUIRE EXTRACT CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. SEE PG. 1 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY THE TRUSS PANEL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COMPANY) OF AMERICA, 63000 ENTERPRISE LANE, HUNTSVILLE, AL 35893 FOR SAFETY PRECAUTIONS PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CLOSING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
Fl Certificate of Authorization # 667



TC LL	20.0 PSF	REF	R8228- 81174
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07197007
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEQN-	2743
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

Bottom chord checked for 20.00 psf non concurrent live load.

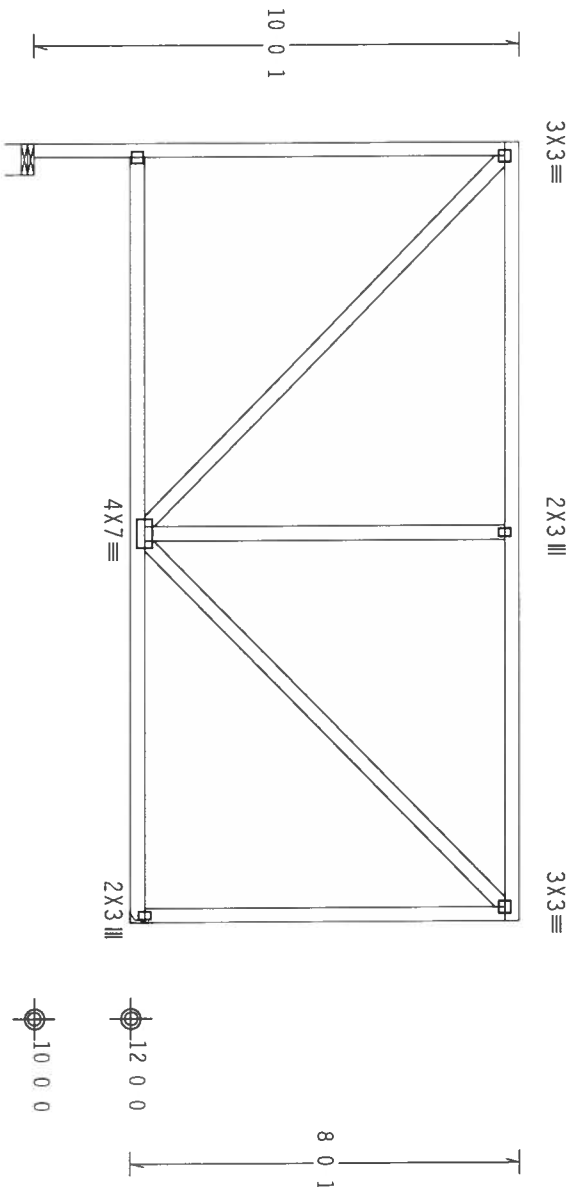
Truss must be installed as shown with top chord up.

Leg down designed for vertical loads only.

110 mph wind, 20.01 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

End verticals not exposed to wind pressure.

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



16'-0" Over 2 Supports
R 646 U 120 W 7.778"
R 634 U 118

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

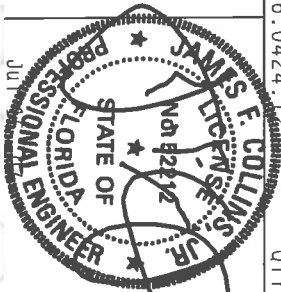
QTY:1 FL/-/4/-/-/R/-

Scale = .25"/ft.

WARNING TRUSS & ATTACHED COMPONENTS MUST BE FABRICATED, HANDLED, SHIPPED, INSTALLED AND BRACED IN ACCORDANCE WITH THE FOLLOWING: REFER TO BEST AVAILABLE SOURCE FOR TRUSS INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 CHERRYBARK 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

TTW Building Components Group, Inc.
Haines City, FL 33844
P.O. Box 1000, Haines City, FL 33844



TC LL	20.0 PSF	REF	R8228- 81175
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197005
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT. LD.	40.0 PSF	SECON	2759
DUR. FAC.	1.25		
SPACING	24.0"	JREF	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x8	SP	#2	
	webs	2x4	SP	#3	

Natling Schedule: (12d_Box_or_Gun_(0.128"x3.25"_)_m1n_)_nat1s)
 Top Chord: 1 Row @12.00" 0.c.
 Bot Chord: 1 Row @12.00" 0.c.

TC	From	73	PLF at	-1.25	/	73	PLF at	-1.45	/	PLATE DUR.FAC.=1.25	
TC	From	73	PLF at	-1.45		73	PLF at	-1.45		PLATE DUR.FAC.=1.25	
TC	From	66	PLF at	1.00	to	73	PLF at	14.00			
BC	From	7	PLF at	-0.67		66	PLF at	26.01			
BC	From	20	PLF at	0.00	to	7	PLF at	0.00			
BC	From	5	PLF at	24.35	to	20	PLF at	24.35			
BC	From	1419	LB	Conc.	load at	10.74					

110 mph wind, 25.39 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 1L, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 Gcp1(+/-)=0.18

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

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

 $Cq/RT=1.00(1.25)/10(0)$

QTY:1

FL/14/1/R/

Scale = .1875"/Ft.

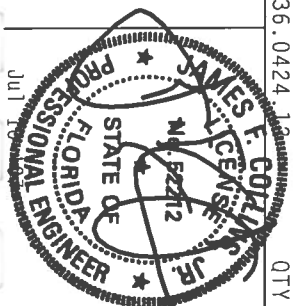
[illegible]

****IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITH BCG, INC. SHALL NOT**

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF MDS (NATIONAL DESIGN SPEC. BY AISC) AND TPI.

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A-Z

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

[illegible]

TC LL	20.0 PSF	REF	R8228- 81176
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07197002
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2694
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

In lieu of rigid ceiling use puntings to brace BC @ 24" OC. Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

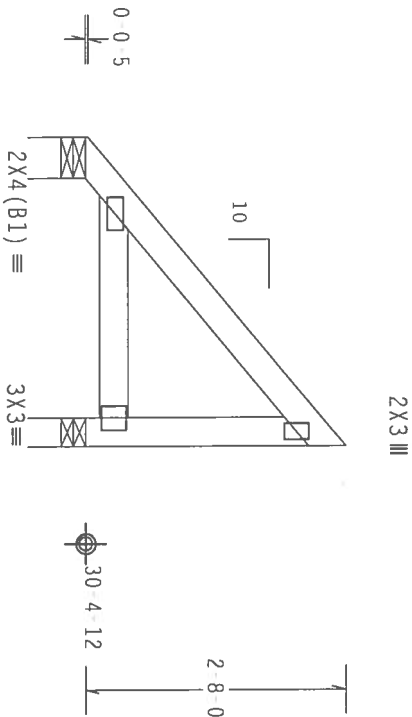
Refer to DWG PIGBACKA0207 or PIGBACKB0207 for piggyback details.

	(LUMBER DUR.FAC. 1.25 / PLATE DUR.FAC. 1.25)
TC From	66 PLF at 2.54
BC From	4 PLF at 2.54
	0.62 to 4 PLF at 2.54

Wind reactions based on M/FRS pressures.

Right end vertical not exposed to wind pressure.

Bottom chord checked for 20.00 psf non concurrent live load.



≤ 3.20 Over 2 Supports \rightarrow
 R-123 U-5 W-5.077"

PLT TYP. Wave

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

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424 QTY:2

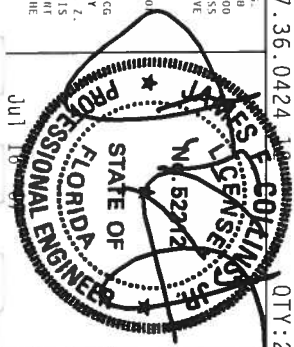
QTY:2 FL/-/4/-/-/R/-

Scale = .5"/Ft.

WARNING THESE BUILDING EXISTENCE CARE INFORMATION, HANDLING, SHIPPING, INSTALLING AND DRIVING INSTRUCTIONS ARE THE PROPERTY OF THE MANUFACTURER AND SHOULD BE KEPT WITH THIS PRODUCT FOR FUTURE REFERENCE TO BCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 310, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COMPANY) OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719. FOR SAFETY PRACTICES PLEASE REFER TO PERMITS OR OTHERS' UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLEYS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

AIDING

ITW Building Components Group, Inc.
Haines City, FL 33844
E1 Certificate of Authorization # 447



FL/-/4/-/R/-		Scale=.5"/ft.
TC LL	20.0 PSF	REF R8228- 81178
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCU8R8228 07197006
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 2192
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

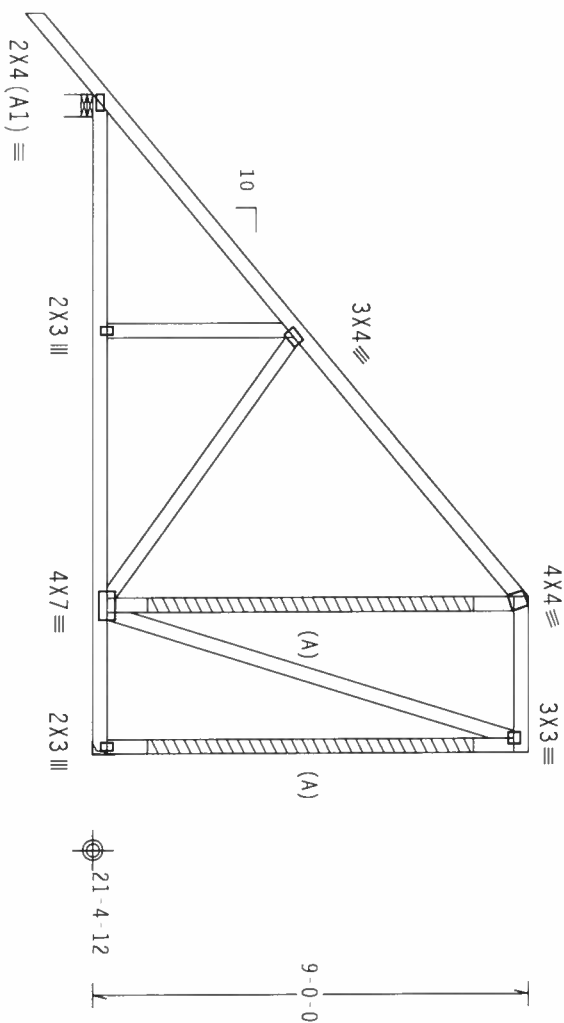
(A) #3 or better scab brace. Same size & 80% length of web member. Attach with 10d Box or Gun (0.128"x3", min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.

110 mph wind, 25.39 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DLE=5.0 psf, wind BC DLE=5.0 psf. $I_w=1.00$ GCPI (+/-)=0.18

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.


$$\sqrt[8]{0}$$

10-4-2

3-2-6

13

R=716 U=69 W=5.5"

R=572 U=226

PLT TYP. Wave

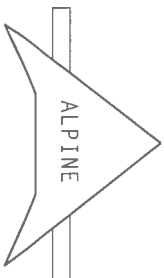
Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)

 $Cq/RT=1.00(1.25)/10(0)$

QTY:

QTY:2 FL/-/4/-/-/R/-

Scale = .25"/Ft.

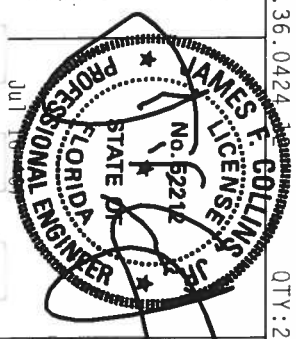


ITW Building Components Group, Inc.
Haines City, FL 33844

*WARNING: THESE RIGID, EXHIBIT CASE IN FAMILIAR, HANDLING, UNLOADING, INSTALLING AND PROTECTING TO GETS (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND (800) TRUSS COMPANY OF AMERICA, 6500 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES AND PICTURES TO FURNISHING THESE INSTRUCTIONS, UNLESS INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED TOP CHORD CEILING.

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

DESIGN CONDITIONS WITH APPLICABLE REQUIREMENTS FOR MODULAR DESIGN SPEC. BY AIRMA AND TOP. THE BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/S/S/V) ASTM A653 GRADE 40/60 (W/K/H/S) GALV. STEEL. APPLY PLATES TO EACH FACE OF THUSMS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN SECTION PER DRAWINGS 160A-Z. ANY INTERSECTION OF PLATES FOLLOWED BY (U) SHALL BE PER AMECX AS OF JULY 2002. POSITION. A SEAL ON THIS DRAWING INDICATES THE ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE THOUS COMPONENTS DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING OWNER PER AME1/TP1 SEC. 2.



FL/-/4/-/4/-/R/-		Scale=.25"/Ft.
TC LL	20.0 PSF	REF R8228- 81179
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07197008
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 2188
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228Z01

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

110 mph wind, 24.71 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. $I_w=1.00$ GCP(+/-)=0.18



R=572 U=194

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

QTY:1 FL/-/4/-/-/R/-

Scale = .3125"/Ft.

WARNING—FIRE'S RUPTURED EXISTING CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC-1 (BUILDING COMPONENT SPECIFIC INFORMATION), PUBLISHED BY THE TIRSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND TIRSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MIDDLETOWN, NJ 07047 FOR SAFETY PRACTICES AND MEANS TO PREVENTING THESE CONDITIONS. UNLESS OTHERWISE INDICATED, FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GROUND SHALL HAVE PROPERLY ATTACHED GROUND CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

IPI; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

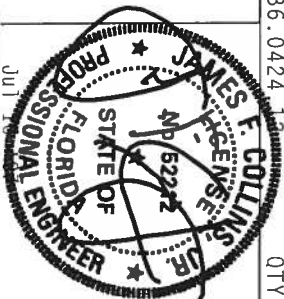
CONDUCTOR PLATES ARE MADE OF 20/10/16GA (W.I./SS/K) ASTM A653 GRADE 40/60 (W. K/H.55) GALV. STEEL. APPLY PLATES TO EACH FACE OF BRIS AND UNLESS OTHERWISE NOTED ON THIS DETAIL, POSITION PER DRAWING. REAR

ANY INSPECTION OF DETAILS FOLLOWED BY (1) SHALL BE, PER ANNEX A3 OF TP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT

DESIGN SHOWS THE SOLIDITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISI/TPI 1 SEC. 2

ALPINE

ITW Building Components Group,
Haines City, FL 33844
Call 1-800-4-A-ALPINE for more information



TC LL	20.0 PSF	REF	R8228- 81181
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07197019
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2171
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T93828Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

Left end vertical not exposed to wind pressure.

Bottom chord checked for 20.00 psf non concurrent live load

110 mph wind, 25.39 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC_{DE}=5.0 psf, wind BC DL=5.0 psf 1w=1.00 GCpl(+/-)=0.18

(A) Continuous lateral bracing equally spaced on member.

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

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

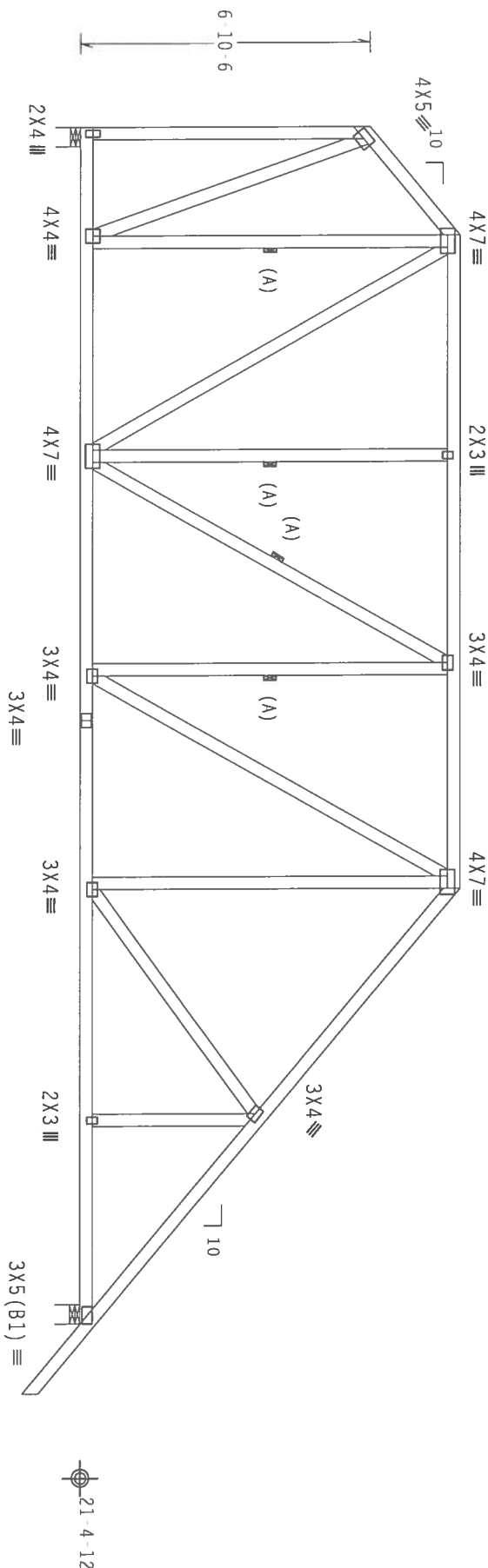


Diagram of a continuous beam with three supports. The beam is divided into two equal spans of 28'-4" each. The total length is 56'-8". The beam is labeled "R=1211 U=313 W=5.5"

PLT TYP. Wave

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

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424

QTY:4

FL/-/4/-/-/R/-

Scale = .25"/Ft.

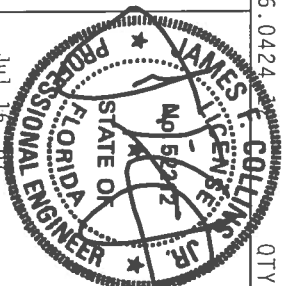
WARNING: THESE BUILDING MATERIALS, WHEN TRANSPORTED, SHIPPED, INSTALLED, AND BRACKETED TOGETHER, FORMING A COHESIVE COMPONENT (SHEAR WALL), PUBLISHED BY THE STEEL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC (A000) TRUSS COUNCIL OF AMERICA, 6300 EIGHTH STREET, NATIONDALE, MD, 52719 FOR SAFETY PRACTICES PRIOR TO PERFORMING THE CONNECTIONS, UNLESS OTHERWISE INDICATED, TOP CHORDS SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844

for the organization. It is not



Jul 16 07

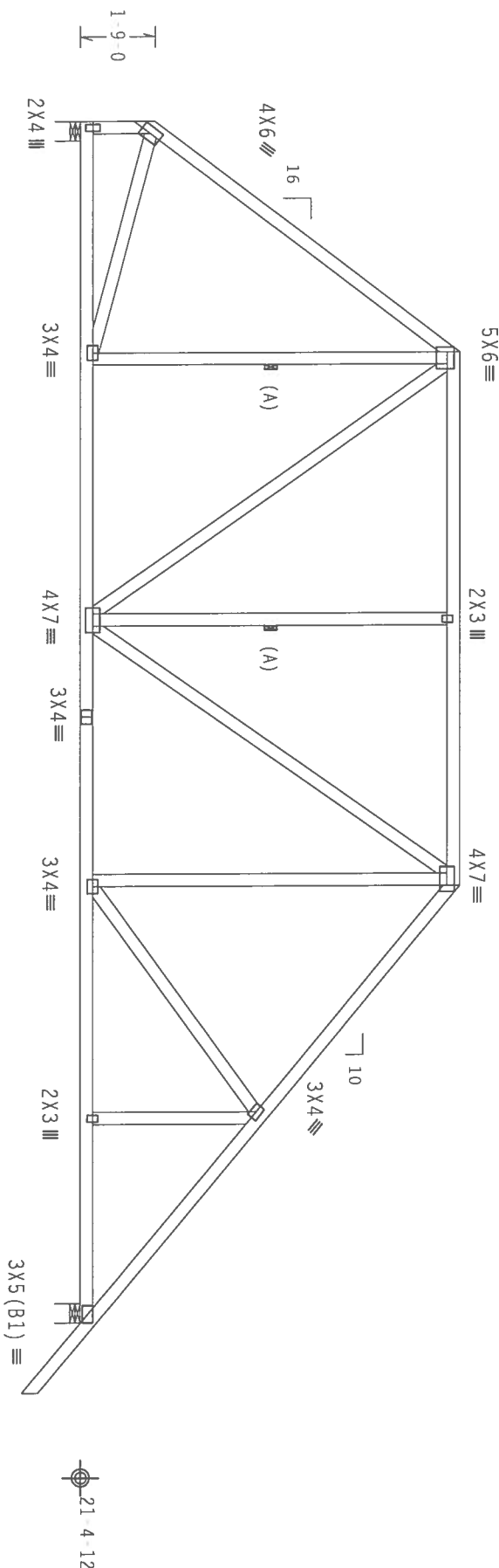
TC LL	20.0 PSF	REF	R8228	81182
TC DL	10.0 PSF	DATE	07/16/07	
BC DL	10.0 PSF	DRW	HCUSR8228	07197020
BC LL	0.0 PSF	HC-ENG	JB/WHK	*
TOT.LD.	40.0 PSF	SEON	2222	
DUR.FAC.	1.25			
SPACING	24.0"	REF	1T938228Z01	

FL/-/4/-/-/R/-		Scale=.1875"/Ft.
TC LL	20.0 PSF	REF R8228- 81183
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCU8R8228 07197029
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 2548
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wabs	2x4	SP	#3	

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

110 mph wind, 25.39 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpi (+/-) 0.18



PLT TYP. Wave

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

7.36.0424 FL/-/4/-/R/- QTY:4

Scale = .25"/Ft.

*WARNING: *FALLS ROUTINE EXISTENT CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING RIG TO GC'S (BUILDING COMPONENT SPECIFY INFORMATION). PUBLISHED BY IPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 63000 CANTERBURY LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE 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. ITM REG. INC. SHALL NOT

TP1; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTOR PLATES ARE, MADE, OF 20/18/16GA (H, 11/55/K) ASIM A653 GRADE 40/60 (H, K/H, 55) GALV. STILL, APPLY

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

BUILDING DESIGNER PER ANSI/FP1 1 SEC. 2.

1
2
3
4
5
6
7

ITW Building Components Group, Inc.
Haines City, FL 33844
For more information, call 800-451-7273.

24
QTY
S. COLLINS JR
LICENSE
No. 5212
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
Jul 16 07

TC LL	20.0 PSF	REF	R8228- 81184
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07197030
BC LL	0.0 PSF	HC-ENG	JB/WMH
TOT.LD.	40.0 PSF	SEQN-	2213
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	:W5, W

Wind reactions based on MWFRS pressures.

Left end vertical not exposed to wind pressure.

Max JT VERT DEFL: LL: 0.20" DL: 0.32" recommended camber 1/2"

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 20.00 psf non concurrent live load.

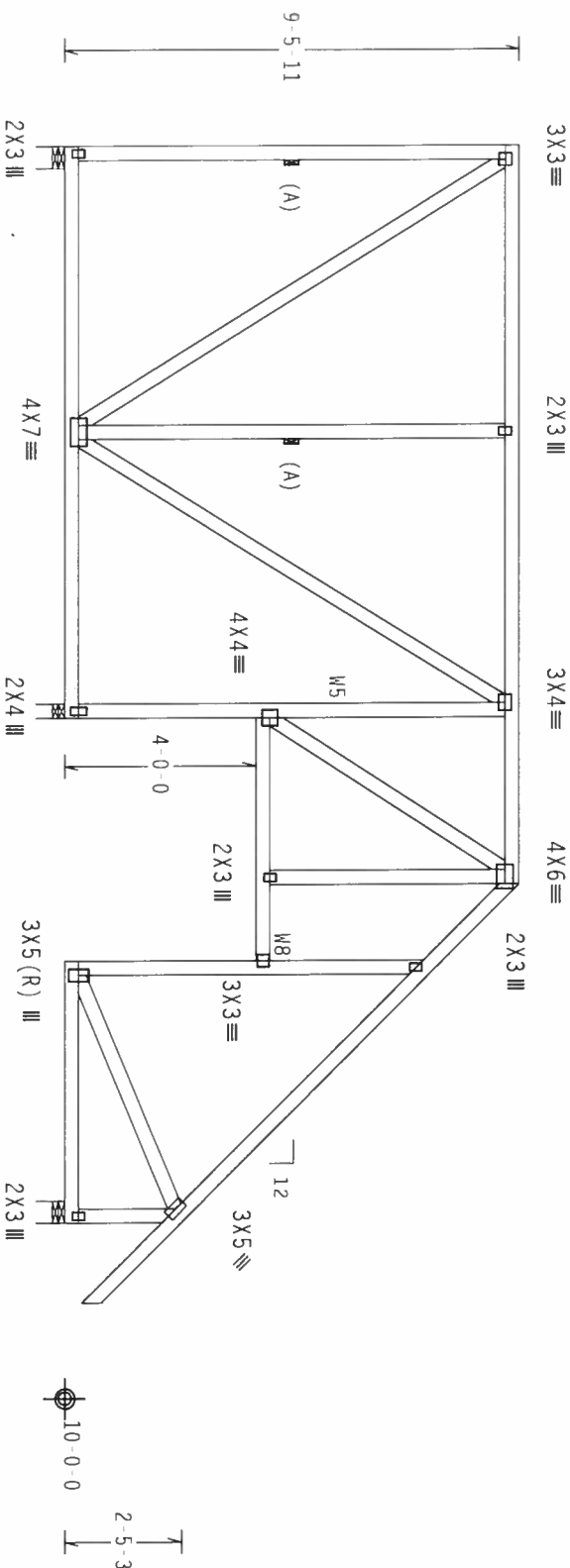
110 mph wind, 15.12 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, $I_w=1.00$ Gcpi (+/-)=0.18

Right end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

Calculated horizontal deflection is 0.17" due to live load and 0.26" due to dead load.

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.



PLT TYP. Wave

Design Crit: $TPI-2002(STD)/FBC$

$$Cq/RT=1.00(1.25)/10(0) \quad 7.36.0424$$

QTY:1

FL/-/4/-/-/R/-/

Scale = .25"/Ft.

WARNING: THESE STRUCTURAL COMPONENTS ARE NOT TO BE REMOVED OR MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER. ANY MODIFICATION TO THESE COMPONENTS MAY COMPROMISE THE INTEGRITY OF THE STRUCTURE. THE FOLLOWING INFORMATION IS FOR YOUR INFORMATION ONLY. IT IS NOT A SUBSTITUTE FOR THE DESIGN DOCUMENTS. THE DESIGN DOCUMENTS SHALL BE CONSULTED FOR THE EXACT REQUIREMENTS OF THIS PROJECT.

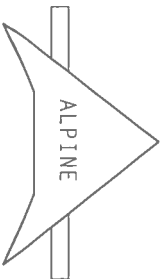
****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

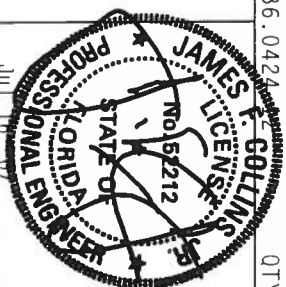
CONNECTOR PLATES SHALL BE 20/18/16GA (W, H/55/K) ASH 6653 GRADE 40/60 (W, K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND LIMITS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 160A.7

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 5577



TC LL	20.0 PSF	REF	R8228- 81185
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197010
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEQN-	2931
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

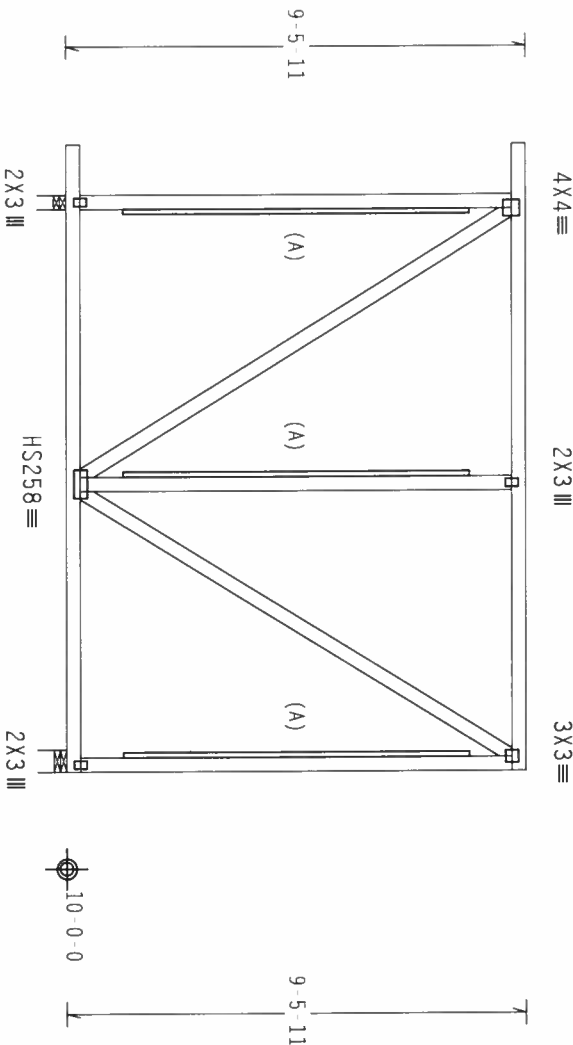
Truss must be installed as shown with top chord up.

110 mph wind, 19.47 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. $I_w=1.00$ Gcpl (+/-)=0.18

End verticals not exposed to wind pressure.

Bottom chord checked for 20.00 psf non-concurrent live load.

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



1'-0-8
12-10-8 Over 2 Supports
R=543 U=123 W=3.5"
R=472 U=84 W=5.5"

PLT TYP. 20 Gauge HS, Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

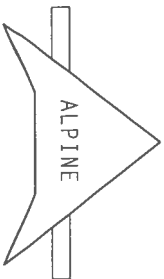
7.36.0424 COLLING

QTY:1 FL/-/4/-/R/-

Scale = .25"/Ft.

****WARNINGS**** THESE REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. THE BEST BUILDING COMPONENT SAFETY INFORMATION PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22319) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE TANK, 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**** OBTAIN A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF BUILDING THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. THE BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AISC AND TPI. THE BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/H/SS/S) WITH A653 GRADE 40/50 (W. K/H/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS. ADDITIONAL INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEA AS OF 07/11/2002, SEC. 3. FOR THE TRUSS COMPONENT DRAWING INDICATES ACCEPTANCE FOR AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 7.



ITW Building Components Group, Inc.
Haines City, FL 33844
Toll-free 1-800-241-2417



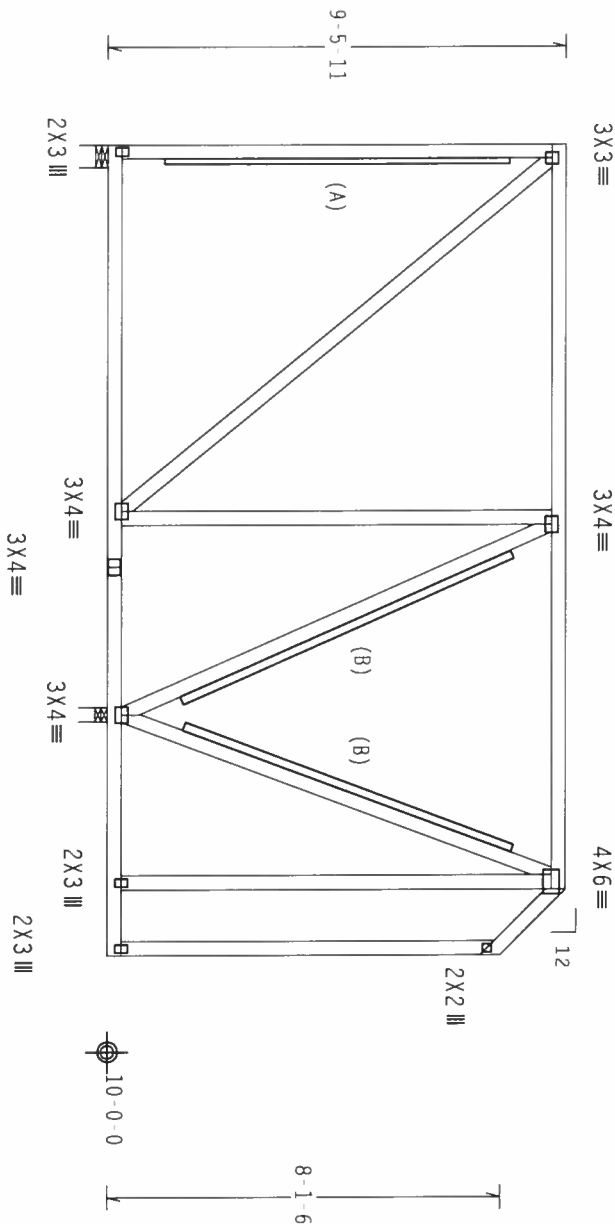
TC LL	20.0 PSF	REF	R8228- 81186
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07197053
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEON-	2152
DUR. FAC.	1.25		
SPACING	24.0"	JREF -	1T938228201

110 mph wind, 18.79 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf $I_w=1.00$ Gcpi (+/-)=0.18

End verticals not exposed to wind pressure.

(B) 2x4 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5".min.)nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.
Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.



16-7-13 Over 2 Supports $R=379$ $U=99$ $W=5.5"$ $R=964$ $U=186$ $W=3.5"$

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424

QTY:1

FL/-/4/-/-/R/-

Scale = .25"/Ft.

WARNING: ALL FRAMES BEING REMOVED, CASE IN PROGRESSION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRESS PAINCOTE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK (WOOD TRUSS COMPANY OF AMERICA, 6300 ENTERPRISE LANE, MADISON, MI 48139) FOR SAFETY PRACTICES AND PICTS TO PREVENTING THESE ACTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIDGEC ELLING.

****IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT**

IP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

PLATES TO FACILITATE THE INSTALLATION OF THE BRASS AND WIRE ROPE CONNECTOR PLATES ARE AVAILABLE IN TWO SIZES: 20/18/16GA (H.H./SS/K) ASIM A653 GRADE 40/60 (H.K/H.SS) GALV., STEEL. APPLY

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

—

ALPINE

ITW Building Components Group, Inc.

PI Certificate of Authorization # 567

BUILDING DESIGNER PER AIAA/IFI 1 SEC. 2.

JUL 16 1967

SPACING 24.0"

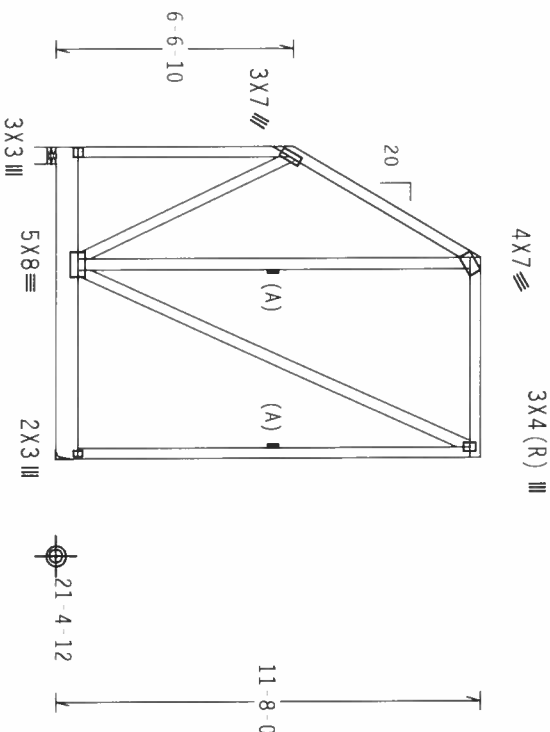
JKET - 11938228Z01

Top chord	2x4	SP	#2	Dense
Bot chord	2x8	SP	#2	
Webbs	2x4	SP	#3	

End verticals not exposed to wind pressure.

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.



3-0-13
5-5-8

<8-6-5 Over 2 Supports >

R=1714 U=598 W=5.5"

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424

QTY:1

FL/-/4/-/-/R/-/

Scale = .1875"/Ft.

WARNING: *FALLS DURING EXISTING CASE IN REINFORCEMENT, HANDING, SHIPING, INSTALLING AND PRACTICE
 REFER TO NCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY FBI (FBI TRUSS PANEL INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND TRUSS COUNCIL OF AMERICA, 63000
 ENTERPRISE LANE, HADSPON, MI 48379 FOR SAFETY PRACTICES AND PRIOR TO PERFORMING THESE ACTIONS.
 UNDESIGNED INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE
 PROPERLY ATTACHED RIDGE CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITH BCG, INC. SHALL NOT

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TP1, OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (NATIONAL DESIGN SPEC., BY AISC) AND TP1.

ITM BCCG

CONNECTOR PLATES ARE MADE OF 2010/166A (N.Y./55/K), ASTM A653 GRADE 40/50 (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 TP11 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.

100

SPECIAL LOADS

TC	From	79 PLF at 0.00 to	79 PLF at 3.07
TC	From	79 PLF at 3.07 to	79 PLF at 8.53
BC	From	20 PLF at 0.00 to	20 PLF at 8.53
BC	572 LB Conc.	Load at 0.72,	2.72, 4.72, 6.72

Wind reactions based on MIFRS pressures.

(A) Continuous lateral bracing equally spaced on member

Bottom chord checked for 20.00 psf non-concurrent live load.

6.042
01

JUL 18 07

JAMES F. COLLINS, JR.
No. 52912
STATE OF FLORIDA
PROFESSIONAL ENGINEER

FL/-/4/-/-/R/-		Scale = .1875"/ft.
TC LL	20.0 PSF	REF R8228- 81188
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCSR8228 07197087
BC LL	0.0 PSF	HC-ENG JB/WMH
TOT.LD.	40.0 PSF	SEQN- 2687
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 20.00 psf non-concurrent live load.

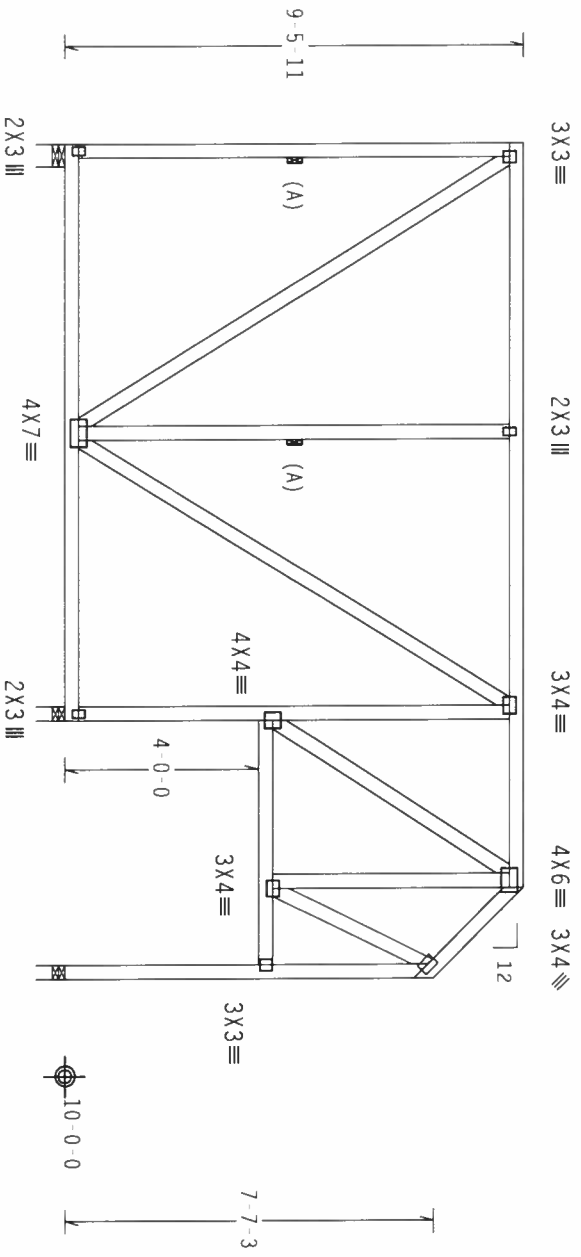
Leg-down designed for vertical loads only.

110 mph wind, 18.54 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. $I_w=1.00$ $G C_p(+/-)=-0.18$

End verticals not exposed to wind pressure.

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.



11-8-4
15-3-8
11-10-0
17-2-0 Over 3 Supports
R=460 U=138 W=5.5"
R=730 U=101 W=3.5"
R=222 U=73 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

QTY:2 FL/-/4/-/R/-

Scale = .25"/ft.

ALPINE		JAMES E. COLLINS No. 6222 PROFESSIONAL ENGINEER STATE OF FLORIDA	
TC LL	20.0 PSF	REF	R8228- 81189
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07197011
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT. LD.	40.0 PSF	SEQN-	2926
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

(7 1408 Isaac Construction Jeremy Cady , ** B11)
 Top chord 2x4 SP #2 Dense
 Bot chord 2x4 SP #2 Dense
 Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

(A) 1x4 #3 or better "T" brace, 80% length of web member. Attach with 8d box or gun (0.113"x2.5", min.) nails @ 6" OC.

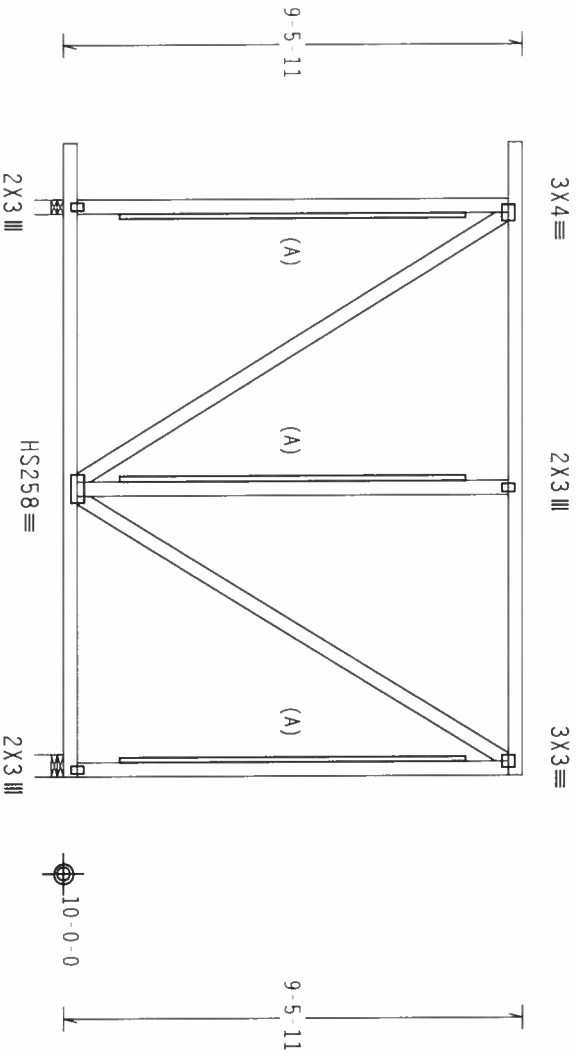
Truss must be installed as shown with top chord up.

110 mph wind, 19.47 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. $1w=1.00 Gcpi(+/-)=0.18$

End verticals not exposed to wind pressure.

Bottom chord checked for 20.00 psf non-concurrent live load.

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



1-2-0
 13'-0-0 Over 2 Supports
 R=552 U=128 W=3.5"
 R=472 U=84 W=5.5"

PLT TYP. 20 Gauge HS, Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

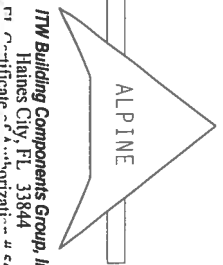
QTY:2 FL/-/4/-/R/-

Scale = .25"/ft.

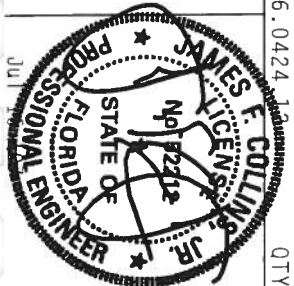
****WARNING**** TRUSS'S REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSI BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE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

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

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (TYPICAL DESIGN SPEC, BY AISC) AND TPI. THE BCS CONNECTION PLATE SHALL BE MADE 2010/10K (40/10/55) ASH ASK GRAD 40/50 (40.4/55.0) GALV. STEEL. APPLY 2. ALL DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS. ANY INSPECTION OF PLATES FOLLOWED BY TPI SHALL BE PER ANNEX A3 OF TPI 2002 SPEC. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY 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.
 Hannes City, FL 33844
 Tel: 813-444-0000 Fax: 813-444-0001



TC LL	20.0 PSF	REF	R8228- 81190
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSUR8228 07197089
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEQN-	2146
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

B1)

BoL	chore	2x6	SP	#2
Weps	2x4	SP	#3	

110 mph wind 26.59 ft mean bot ASCE 7-02 CLOSED bldg not

located within 4.50 ft from roof edge, CAT 11, 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.

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.

SPECIAL LOADS
/ LIMITS

----- (LUMBER DOK.FAC:=1.23 / PLATE DOK.FAC:=1.23)
TC - From 66 PLF at 0.00 to 66 PLF at 12.45

TC - From	66 PLF at 12.45 to	66 PLF at 23.67
TC - From	66 PLF at 12.45 to	66 PLF at 23.67

IC	From	to	PLF at	PLF at
66	23.67	20	37.00	35.33
20	0.00	20	0.00	0.00

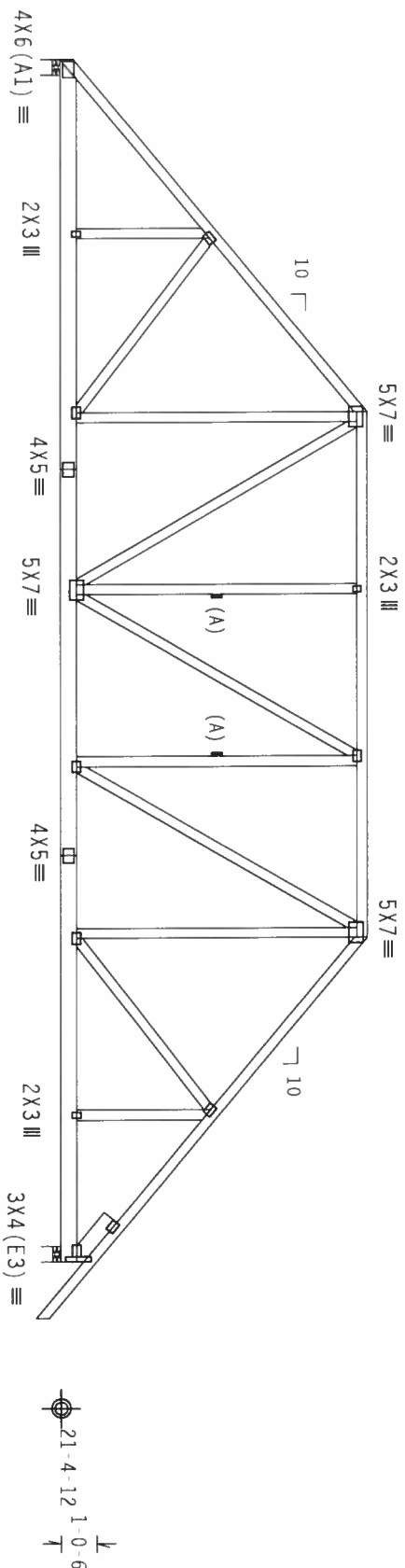
BC - From 5 PLF at 35.33 to 5 PLF at 37.00

PLB -	Load at	(16.51, 21.44)
PLB -	Load at	(25.60, 21.44)
PLB -	Load at	(25.60, 21.44)

[illegible]

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 20.00 psf non-concurrent live load.



10-4-2

15-5-2

9-6-12

35-4-0 Over 2 Supports

R=2120 U-527 W=5.5"

R=2424 U-605 W=5.5"

Note: All Plates Are 3X4 Except As Shown.

PLT TYP. Wave	Cq/RT=1.00 (1.25)
1	1.00
2	1.00
3	1.00
4	1.00
5	1.00
6	1.00
7	1.00
8	1.00
9	1.00
10	1.00
11	1.00
12	1.00
13	1.00
14	1.00
15	1.00
16	1.00
17	1.00
18	1.00
19	1.00
20	1.00
21	1.00
22	1.00
23	1.00
24	1.00
25	1.00
26	1.00
27	1.00
28	1.00
29	1.00
30	1.00
31	1.00
32	1.00
33	1.00
34	1.00
35	1.00
36	1.00
37	1.00
38	1.00
39	1.00
40	1.00
41	1.00
42	1.00
43	1.00
44	1.00
45	1.00
46	1.00
47	1.00
48	1.00
49	1.00
50	1.00
51	1.00
52	1.00
53	1.00
54	1.00
55	1.00
56	1.00
57	1.00
58	1.00
59	1.00
60	1.00
61	1.00
62	1.00
63	1.00
64	1.00
65	1.00
66	1.00
67	1.00
68	1.00
69	1.00
70	1.00
71	1.00
72	1.00
73	1.00
74	1.00
75	1.00
76	1.00
77	1.00
78	1.00
79	1.00
80	1.00
81	1.00
82	1.00
83	1.00
84	1.00
85	1.00
86	1.00
87	1.00
88	1.00
89	1.00
90	1.00
91	1.00
92	1.00
93	1.00
94	1.00
95	1.00
96	1.00
97	1.00
98	1.00
99	1.00
100	1.00

7.36.0424 QTY:1 FL/-/4/-/R/- Scale = .1875"/Ft.

QTY:1	FL/-/4/-/-/R/-
-------	----------------

Scale = .1875"/Ft.

WARNING: PARTS REQUIRE EXTERIOR CARE IN INSTALLATION, HANDLING, SHIPPING, UNLOADING AND BRACING. RETURN TO RECIPIENT BUILDING COMPONENT SAFETY INFORMATION, PUBLISHED BY TPI, GUSSELL PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 502, ALEXANDRIA, VA, 22314 AND WPCA (WOOD PRODUCTS) COUNCIL OF AMERICA, 6300 CANTERBURY LANE, BOWLING GREEN, MI 48309 FOR SAFETY PRACTICES PERTAINING TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANTS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITM BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE TO THE BUILDING OR EQUIPMENT IN THE EVENT OF A DISASTROUS COLLAPSE.**

BE RESPONSIBLE TO ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD IN CROSS IN COMPLIANCE WITH TP1, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES. DESIGN COMPATIBLE WITH ANY APPLICABLE PROVISIONS OF AISC / AIAA / NATIONAL DESIGN SPEC. BY AISC AND TP1. ILM DGC

CONDUCTOR PLATES ARE MADE OF 20/18/16GA (H, H/SS/K) ASTM A553 GRADE 40/60 (H, K/1/SS) GALV. STEEL. APPLY PLATES TO EACH FACE OF BRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 1604 Z.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IPI1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT


ORIGINAL SHOWING. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

1

ITW Building Components Group, Inc.
Haines City, FL 33844
Telephone 800/441-0111

0424
QTY:

JUL 16 07



FL/-/4/-/-/R/-		Scale = .1875"/Ft.
TC LL	20.0 PSF	REF R8228- 81191
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUR8228 07197109
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEQN- 2675
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228Z01

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP <td>#2</td> <td>Dense</td> <td></td>	#2	Dense	
	webs	2x4	SP <td>#3</td> <td></td> <td></td>	#3		

110 mph wind, 15.14 ft mean hgt., ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf, $I_w=1.00$ Gcpl (+/-)=0.18

Wind reactions based on MWFRS pressures.

End verticals not exposed to wind pressure.

(B) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5".min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load

* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO
DETERMINE IF THIS IS ACCEPTABLE. *

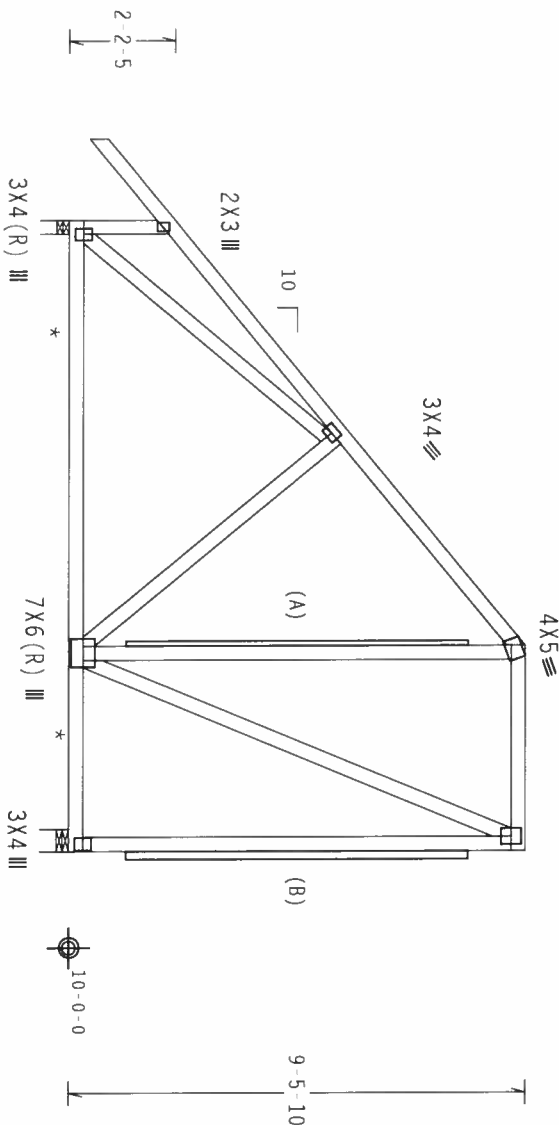
SPECIAL LOADS

TC	(MEMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC	-From 66 Plf at -8.67 to 66 Plf at 8.73	
BC	-From 66 Plf at 8.73 to 66 Plf at 12.96	
BC	-From 5 Plf at -8.67 to 5 Plf at 0.00	
TC	-From 20 Plf at 0.00 to 20 Plf at 12.96	
TC	-214 LB Conc. load at 8.80	
BC	-1002 LB Conc. load at 8.73	
BC	-214 LB Conc. load at 10.80, 12.80	

(A) 1x4 #3 or better "T" brace: 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5".min.) nails @ 6" OC.

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.



PLT TYP. Wave

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

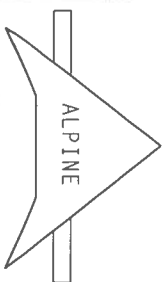
 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424

QTY:1

FL/-/4/-/-/R/-

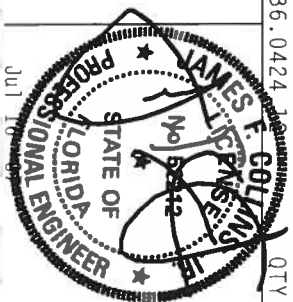
Scale = .25"/Ft.



ITW Building Components Group, Inc.
Haines City, FL 33844
Tel. 800/441-4447

****WARNING**** TRUSSES, REQUIRING EXHIBIT C, ARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DESIG. (BUILDING CONTRACTOR SPECIFY INFORMATION). PUBLISHED BY TPI TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNLESS OTHERWISE INDICATED FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID DELTING.

****IMPORTANT**** (FURNISH A COPY OF THIS DECISION TO THE INSTALLATION CONTRACTOR. TPI BCG, INC. SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION OF THIS TRUSS IN COMPLIANCE WITH THE TRUSS IN COMPLIANCE WITH TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES. DESIGN CONTRACTOR WITH APPLICABLE PROVISIONS OF AOS (NATIONAL DESIGN SPEC. BY AIA/AI AND TPI. TPI BCG AND TPI. CONSTRUCTION PLATES ARE MADE OF 2018/18/604 (44-AL/55/57) ASIN A555 GRADE 40/60 (44-44/55) GALV. STEEL. APPLY PLATES TO EACH FACT OF TRUSSES AND UNLESS OTHERWISE SPECIFIED ON THIS DECISION, POSITION PER DRAWINGS. A600 2 ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMEX AS OF TPI1 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENTS/INSTEAD SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AIA/AI/TPI 1 SEC. 2.



Jul 16 1987

TC LL	20.0 PSF	REF	R8228- 81192
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197063
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	1806
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

Left end vertical exposed to wind pressure. Deflection meets L/240
criteria for brittle and flexible wall coverings.

Bottom chord checked for 20.00 psf non concurrent live load.

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

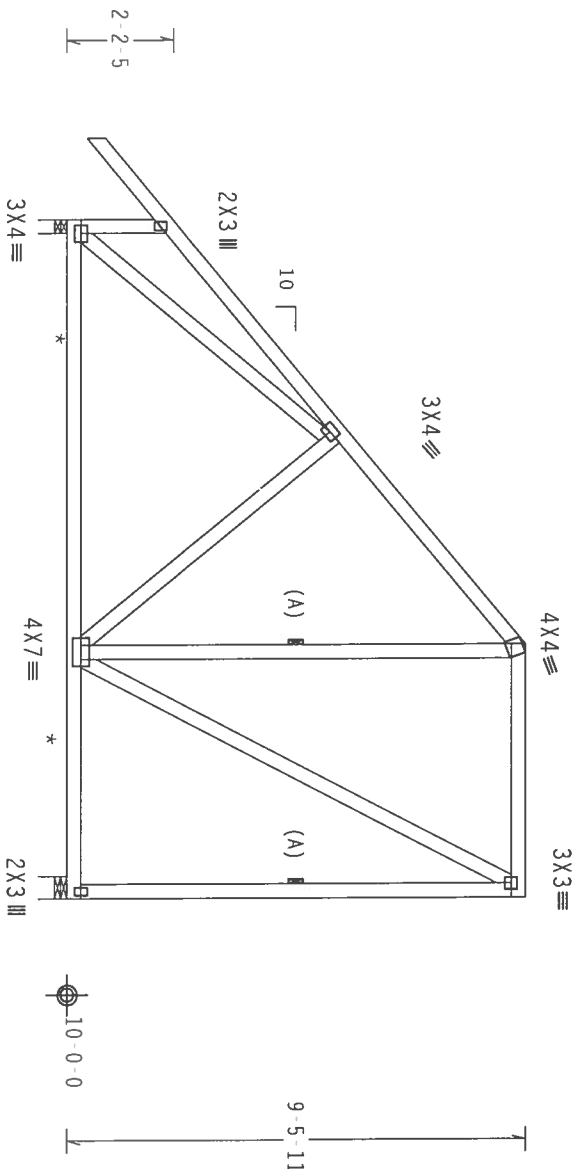
110 mph wind, 15.14 ft mean hgt, ASCE 7-02, CLOSED bldg, not
located within 4.50 ft from roof edge, CAT II, EXP B, Wind TC
DL=5.0 psf, wind BC DL=5.0 psf. $1w=1.00 Gcp(+/)=0.18$

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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

* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO
DETERMINE IF THIS IS ACCEPTABLE.*



8-8-13 5-2-11
13-11-8 Over 2 Supports
R=726 W=3.5"
R=597 U=124 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

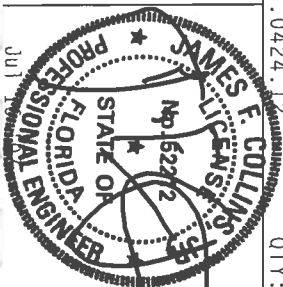
QTY:6 FL/-/4/-/R/-

Scale = .25"/Ft.

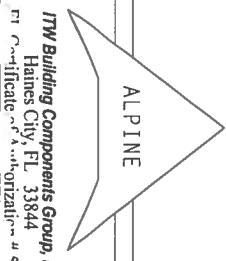
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO DCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE 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
A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI 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 CONDITIONS WITH APPLICABLE PROVISIONS OF 2002 NATIONAL DESIGN SPEC. BY AIA/AIA AND TPI.
CONNECTIONS ARE MADE TO 2X10/12 (4X10/12) ASH APPLICABLE TO 4X10/12 (4X12/12) GALT, STEEL, TPI BCG
TRUSS COMPANY. ALL TRUSSES SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH THE DESIGN OF TPI BCG
TRUSS COMPANY. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE TRUSS COMPANY.
DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT
DESIGN SHOWN. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY FOR THE TRUSS COMPONENT
BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TC LL	20.0 PSF	REF R8228- 81193
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUR8228 07197093
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEON- 1827
DUR. FAC.	1.25	
SPACING	24.0"	UREF- 1T938228201



TPI Building Components Group, Inc.
Haines City, FL 33844
P.O. Box 10000, Haines City, FL 33844

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

Bottom chord checked for 20.00 psf non-concurrent live load.

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

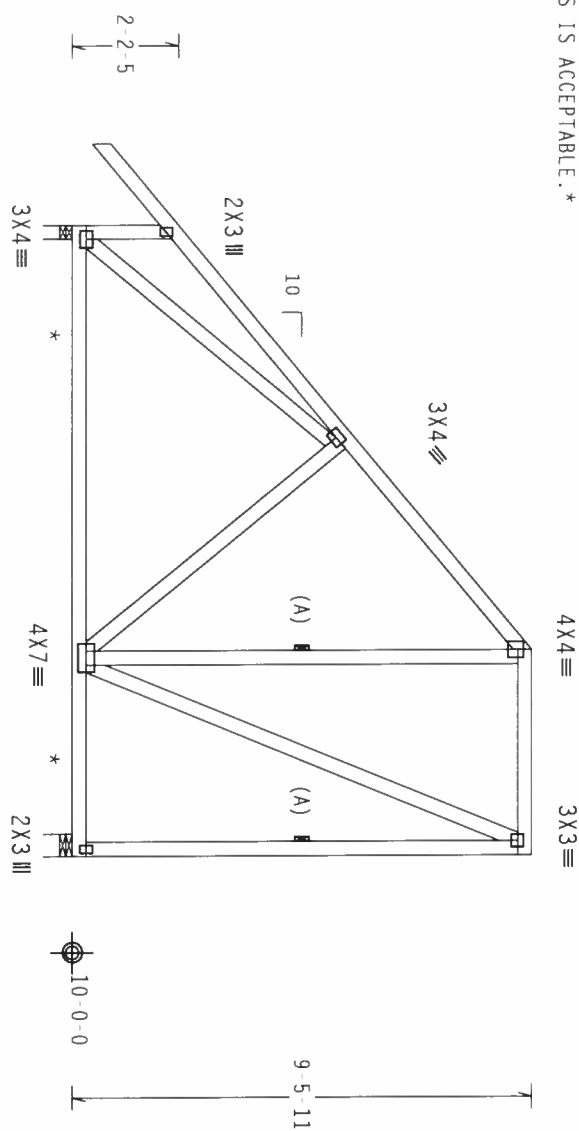
* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO DETERMINE IF THIS IS ACCEPTABLE.*

110 mph wind, 15.14 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. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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



12'-11" 8 Over 2 Supports

R=684 W=3.5"

R=554 U=125 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

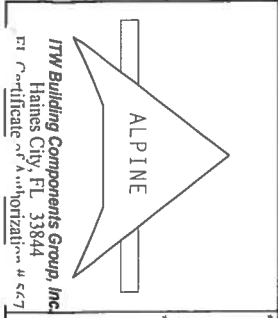
Cq/RT=1.00(1.25)/10(0)

7.36.0424

QTY:3

FL/-/4/-/R/-

Scale = .25"/Ft.

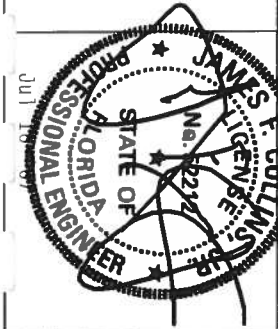


****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BC31 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED 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 OF THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF B05 (NATIONAL DESIGN SPEC. BY AREA) AND TPI.

DESIGNER'S PLANS SPECIFY: 20/10/100 (W/S/S/V) ASH/DO5 GRAD 40/60 (W, 42N, 55) GALT, STEEL, APPLY 2. PLATE CONNECTIONS TO BE 20/10/100 (W/S/S/V) ASH/DO5 GRAD 40/60 (W, 42N, 55) GALT, STEEL, APPLY 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED BY A TPI 2002 SEC 3.2 DESIGNER OR THE BUILDING DESIGNER. 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	REF	R8228- 81194
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197097
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	1821
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Web	2x4	SP	#3	

Left end vertical exposed to wind pressure. Deflection meets $L/240$ criteria for brittle and flexible wall coverings.

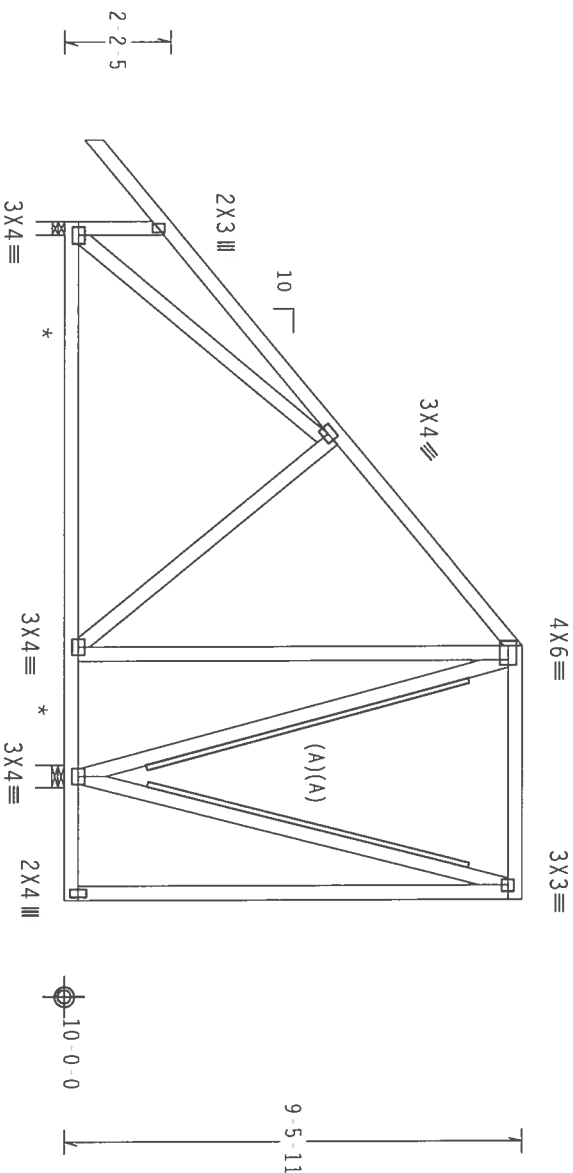
* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO
DETERMINE IF THIS IS ACCEPTABLE. *

110 mph wind, 15.14 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. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.

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


$$\sqrt{1-\frac{8}{10}}$$

8-8-13

$$\begin{array}{r} 2-4-0 \\ 11 \end{array}$$

13 11 8 Over 2 Supports $R=593$ $M=3.5"$
 $R=732$ $U=138$ $M=5.5"$

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.042412 QTY:

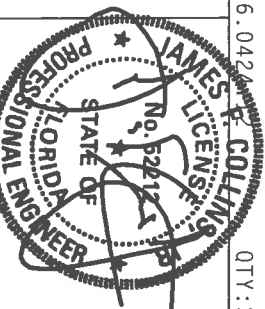
QTY:3 FL/-/4/-/-/R/-

Scale = .25"/Ft.

*****WARNING*****
 PERSONS REQUIRING EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND PATCHING
 REFER TO RECIPIENT (BUILDING COMPONENT SAFETY INFORMATION) PUBLISHED BY THE TRUSS PRACTICE INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICA (WOOD TRUSS COMPANY) OF AMERICA, 65000
 ENTERPRISE LANE, SUITE 501, MI 53191 FOR SAFETY PRACTICES PRIOR TO RECONSTRUCT THESE STRUCTURES. UNLESS
 OTHERWISE INDICATED FOR 30003 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
FI Certificate of Authorization # 567



Jul 16 07

TC LL	20.0 PSF	REF	R8228- 81195
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197098
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	1823
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

left end vertical exposed to wind pressure. Deflection meets $L/240$ criteria for brittle and flexible wall coverings.

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

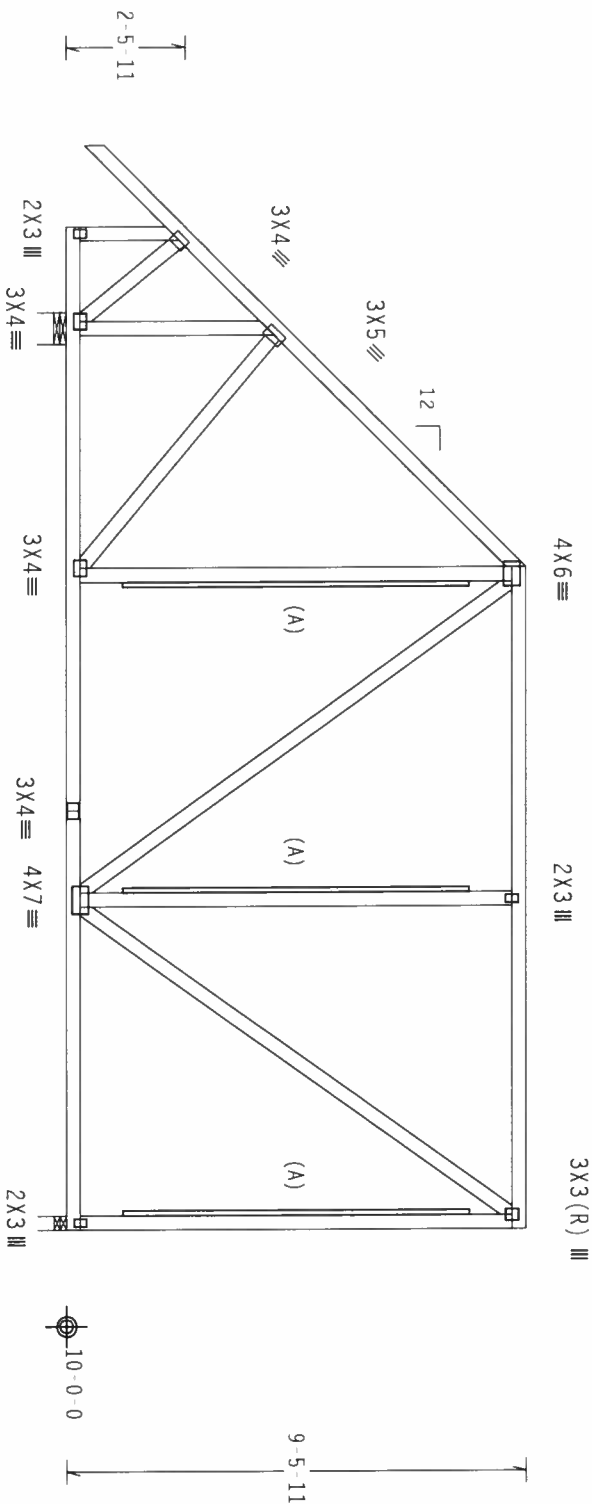
110 mph wind, 15.14 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf 1w=1.00 gcpi(+/-)=0.18

Right end vertical not exposed to wind pressure.

(A) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.

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

 $R=1149 \quad U=26 \quad W=7.778^m$

R=809 U=132 W=3.5^m

PLT TYP. Wave

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

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424 13

QTY:1

 $\text{FL} / - / 4 / - / - / \text{R} / -$

Scale = .25"/Ft.

WARNING: ALL TRUCKS (INCLUDING EXISTING) CARRYING IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO BC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IP1 (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND AISC (AMERICAN INSTITUTE OF STEEL CONSTRUCTION), 530 N. DEER CREEK, SUITE 1300, WEST CHICAGO, IL, 60606. THE TRUSS COUNCIL OF AMERICA, 6300 DEER CREEK, SUITE 1300, WEST CHICAGO, IL, 60606, HAS BEEN DESIGNATED AS THE TRUSS COUNCIL OF AMERICA, UNLESS OTHERWISE INDICATED. TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUTS OR PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED TOP CEILING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. IWM BCG, INC. SHALL NOT

BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN, ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH
 IP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.
 TRUSSES CONFORMING WITH AND EXCEEDING REQUIREMENTS OF AISC (STEEL EDITION 1989) AND VOL.

DESIGN CONDITIONS OF MDS (TYPICAL DESIGN SPEC., BT 414P) AND 11-P.
CONNECTION PLATES ARE MADE OF 20/18/166A (W./SS/K) ASTM A553 GRADE 40/60 (W, K/11.55) GALV. STEEL. APPLY
PLATES TO EACH FACE OF JOISTS AND UNLESS OTHERWISE NOTED ON THIS SECTION POSITION PER DRAWINGS 16GA 2

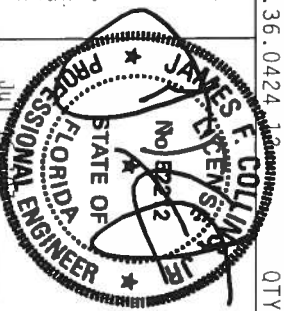
ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMHX A3 OF TP11 2002 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TROUS COMPONENTS

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.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844
FL Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228- 81196
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197074
BC LL	0.0 PSF	HC- ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	1889
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

Left end vertical exposed to wind pressure. Deflection meets $L/240$ criteria for brittle and flexible wall coverings.

(A) 2x6 #3 or better "T" brace. 80% length of web member. Attach with 16d Box or Gun (0.135"x3.5", min.) nails @ 6" OC.

Bottom chord checked for 20.00 psf non-concurrent live load.

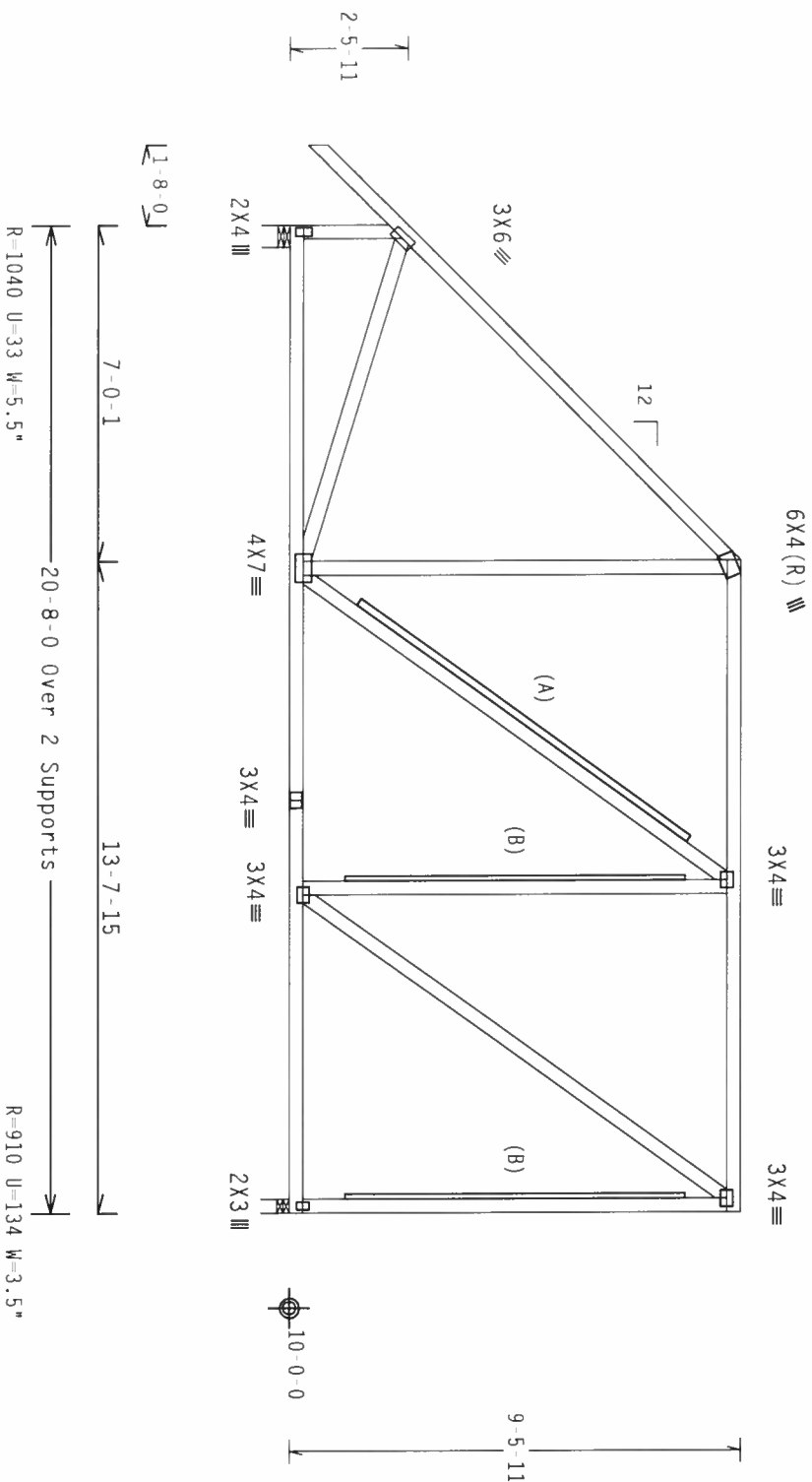
110 mph wind, 15.14 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, 1w=1.00 Gcpi (+/-)=0.18

Right end vertical not exposed to wind pressure.

(B) 1x4 #3 or better "T" brace. 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

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.



PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424.12

QTY:1

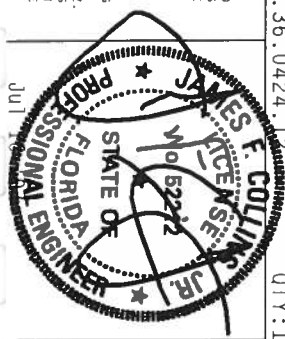
FL/-/4/-/-/R/-/

Scale = .25"/Ft.

WARNING: THESE PRACTICES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PRACTICING. REFER TO DESI (MULTIDISK COMPONENT SAFETY INFORMATION) PUBLISHED BY TPI (TRESS PASTE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND NICK AND NICK COMPANY, TRUSS CONSULT, OF AMERICA, 65000 ENTERPRISE LANE, HUNTSVILLE, AL 35893 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. INTERSECTIONS INDICATED FOR GIRDOR SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM GIRDOR SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228- 81197
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSUR8228 07197079
BC LL	0.0 PSF	HC-ENG	JB/WMH
TOT.LD.	40.0 PSF	SEQN-	1894
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	Web	2x4	SP	#3	:W9	2

Wind reactions based on MIFRS pressures.

left end vertical exposed to wind pressure. Deflection meets $L/240$ criteria for brittle and flexible wall coverings.

Bottom chord checked for 20.00 psf non-concurrent live load.

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

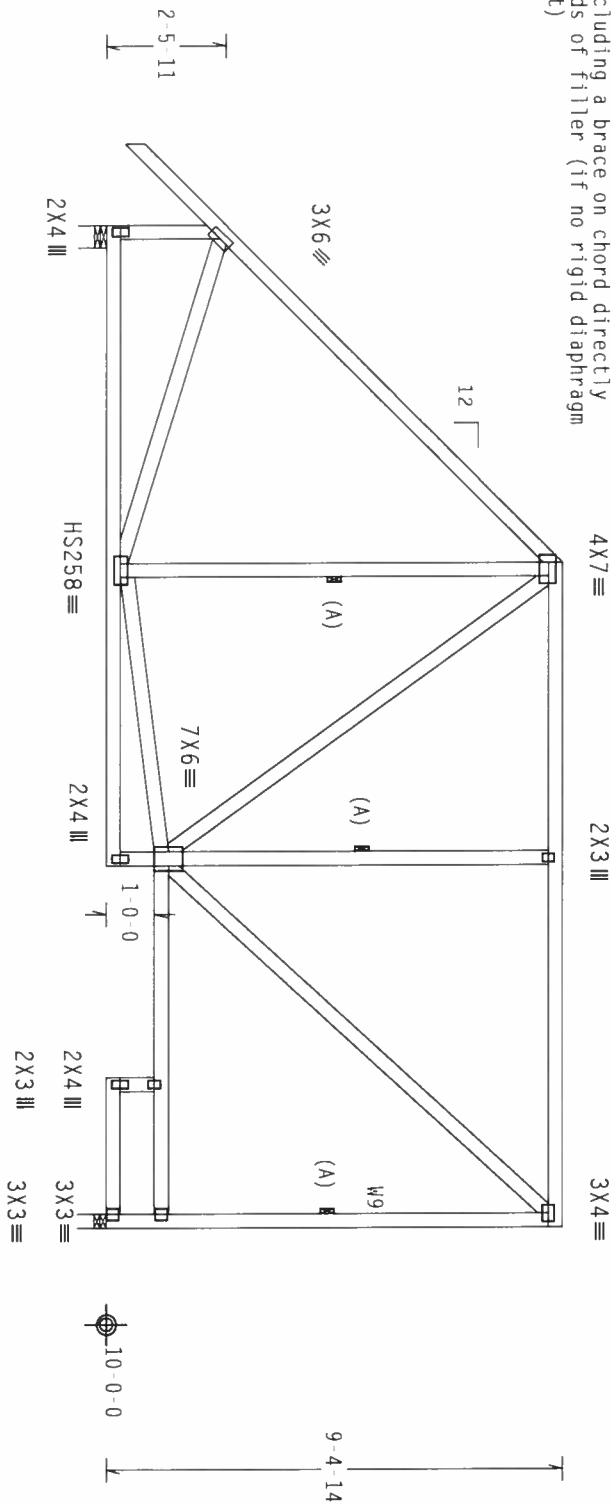
See detail BCGILLER0207, TCFILLER0207 and REBPICF1 for filler details. Laterally brace chord above/below filler @ 24" O.C. (or as designed) including a brace on chord directly above/below both ends of filler (if no rigid diaphragm exists at that point)

110 mph wind, 15.11 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf, lw=1.00 GCpl(+/-)=0.18

Right end vertical not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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



PLT TYP. 20 Gauge HS, Wave

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

$$Cq/RT=1.00(1.25)/10(0)$$

36.0424 QTY:1

QTY:1

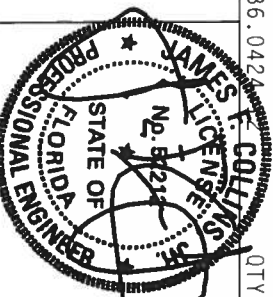
FL/-/4/-/-/R/-

Scale = .25"/Ft.

WARNING FRAMES SUBJECT TO BEING CAUSE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC51 (BUILDING CONSTRUCTION SAFETY INFORMATION), PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC (GOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PERTAINING TO REDEFINING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR COMB SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
CI Certificate of Authorization # 667



TC LL	20.0 PSF	REF	R8228- 81198
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197082
BC LL	0.0 PSF	HC-ENG	JB/WMH
TOT.LD.	40.0 PSF	SEQN-	1945
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

(7 1408 Isaac Construction Jeremy Cady , ** D6)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

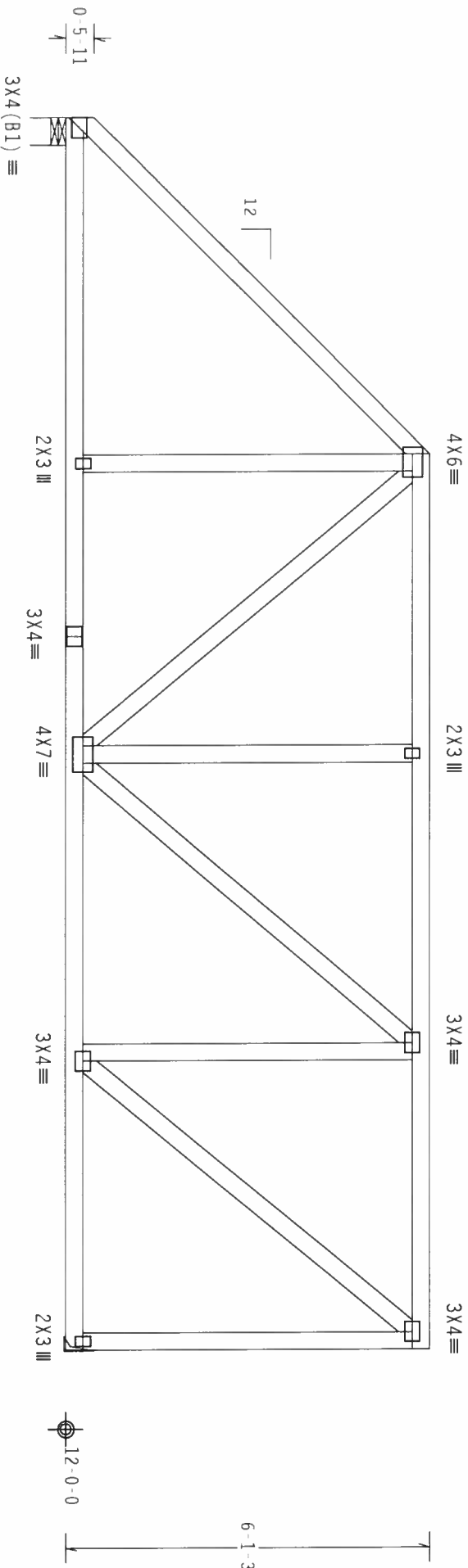
In lieu of structural panels use purlins to brace all flat TC @ 24" OC.

110 mph wind, 15.28 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. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Right end vertical not exposed to wind pressure.

Bottom chord checked for 20.00 psf non-concurrent live load.

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



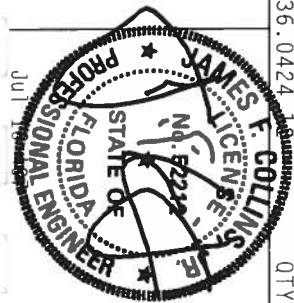
5'-7'-9" 15'-0'-7" 20'-8'-0" Over 2 Supports R=917 U=52 W=5.5" R=907 U=108

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.36.0424 1000 QTY:1 FL/-/4/-/-/R/- Scale = .375"/Ft.

****WARNING**** INSTRUCTIONS REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BEST BUILDING COMPONENT SAFETY INFORMATION. PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HANNOVER, NH 03719) 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
ET Certificate of Authorization # 627



TC LL	20.0 PSF	REF R8228- 81199
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07197086
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEON- 1951
DUR. FAC.	1.25	
SPACING	24.0"	UREF- 1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W9 2x4 SP #2 Dense:

Wind reactions based on MMFRS pressures.

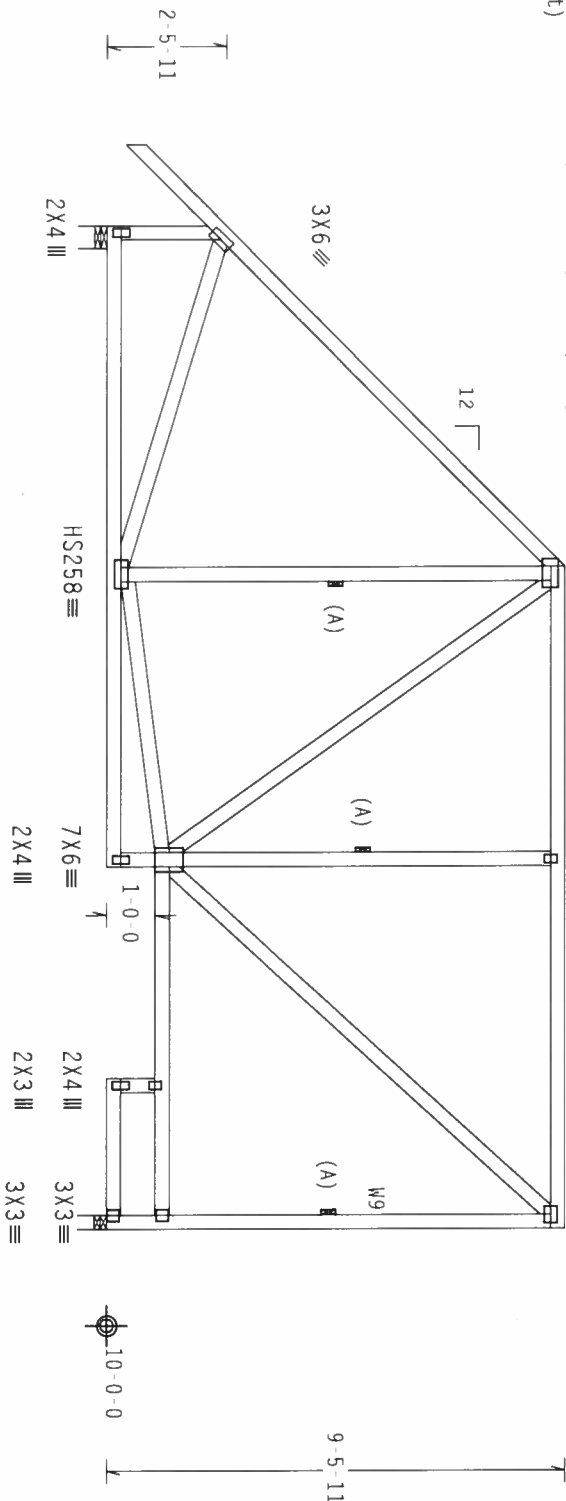
Left end vertical exposed to wind pressure. Deflection meets L/240
criteria for brittle and flexible wall coverings.

Bottom chord checked for 20.00 psf non-concurrent live load.

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

See detail BCFILLER0207, TCFILLER0207 and REPRCFL for filler
details. Laterally brace chord above/below filler @ 24" O.C.
(or as designed) including a brace on chord directly
above/below both ends of filler (if no rigid diaphragm
exists at that point)

110 mph wind, 15.14 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
Right end vertical not exposed to wind pressure.
(A) Continuous lateral bracing equally spaced on member.
In lieu of structural panels use purlins to brace all flat TC @
24" OC.



7-0-1 13-2-0 13-7-15 7-2-8 0-3-8
20-8-0 Over 2 Supports
R=1040 U=32 W=5.5"
R=910 U=135 W=3.5"

PLT TYP. 20 Gauge HS,Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

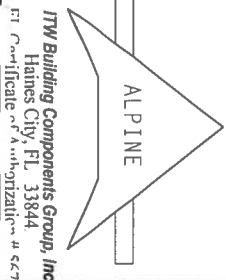
QTY:1 FL/-/4/-/R/-

Scale = .25"/ft.

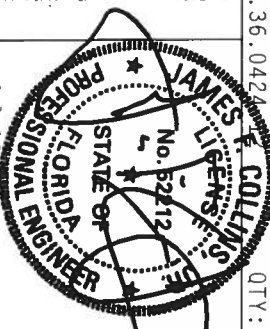
WARNING TRUSSES REQUIRE EXERCISE CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING.
REFER TO NCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218
NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300
ENTERPRISE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

IMPORTANT (MINIMUM) A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE 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.

TRUSS COMPONENTS WITH APPLICABLE PROVISIONS OF AIA (NATIONAL DESIGN SPEC. BY AIA) AND TPI. THE BCG
DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AIA (NATIONAL DESIGN SPEC. BY AIA) AND TPI. THE BCG
CONNECTIONS ARE MADE BY 20/16/10/6 (4/11/5/7/1) ASH AREA GRADE 40/60 (4/ 6/7/1/5/5) GALV. STEEL. APPLY
TYPICAL CONNECTIONS TO ALL TRUSSES. UNLESS OTHERWISE INDICATED ON THIS DESIGN, SECTION PER DRAWINGS 100N, 2,
AND 100N, 2, AND 100N, 2, AND 100N, 2, AND 100N, 2, AND 100N, 2, AND 100N, 2, AND 100N, 2, AND 100N, 2, AND 100N, 2,
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
P: 888-444-7222 FAX: 888-444-7222



TC LL	20.0 PSF	REF	R8228- 81200
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197090
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	1909
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:

Wind reactions based on MMFRS pressures.

Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 20.00 psf non-concurrent live load.

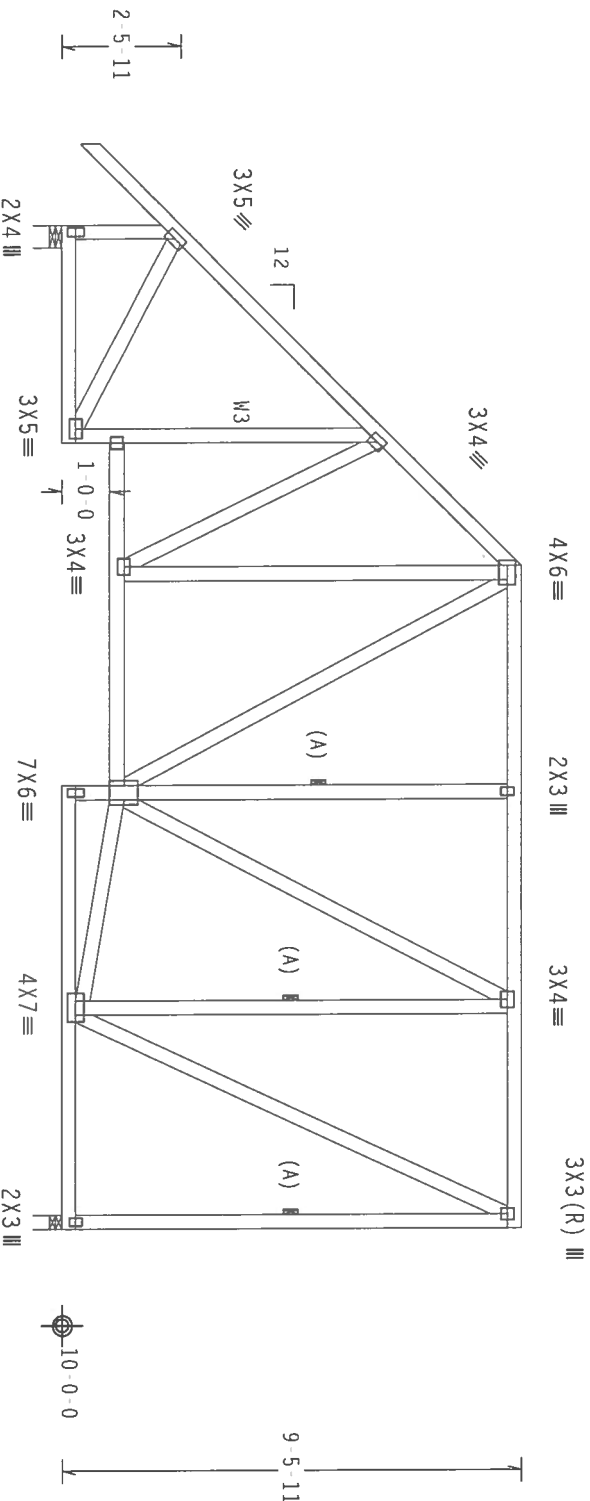
110 mph wind, 15.14 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{cpi}(+/-)=0.18$

Right end vertical not exposed to wind pressure.

Calculated horizontal deflection is 0.09" due to live load and 0.16" due to dead load.

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.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

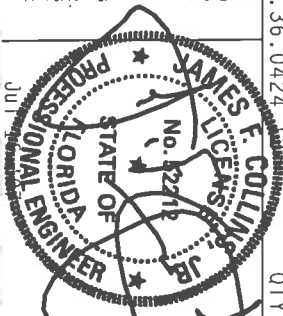
QTY:4 FL/-/4/-/R/-

Scale = .25"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DESI. BUILDING COMPONENT SAFETY INFORMATION. CONSULTED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 6200 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 A PROPERLY ATTACHED RIGID CEILING.

ALPINE

TMW Building Components Group, Inc.
Haines City, FL 33844
Fl Certificate of Authorization # 567



TC LL	20.0 PSF	REF R8228- 81201
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07197092
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 1902
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228201

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W3 2x4 SP #2 Dense:

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $W=1.00$ Gcpi(+/-)=0.18

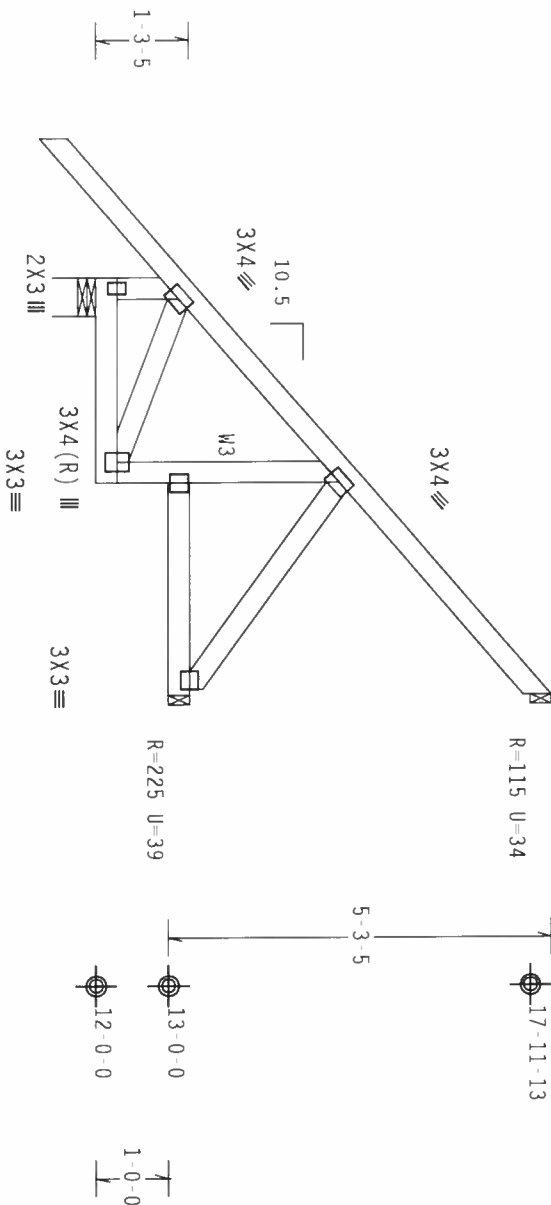
Wind reactions based on MMFRS pressures.

Bottom chord checked for 20.00 psf non concurrent live load.

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)			
TC - From	67 PLF at -1.91 to	67 PLF at 5.72	
BC - From	5 PLF at -1.91 to	5 PLF at 0.00	
BC - From	20 PLF at 0.00 to	20 PLF at 2.81	
BC - From	20 PLF at 2.81 to	20 PLF at 5.72	
TC -	9 LB Conc. Load at	2.13	
TC -	105 LB Conc. Load at	3.56	
BC -	62 LB Conc. Load at	2.13	
BC -	48 LB Conc. Load at	3.56	

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



1-10-14

2-9-12 2-10-14
5-8-10 Over 3 Supports
R=498 U=117 W=6.288*

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.36.0424.12

QTY:2

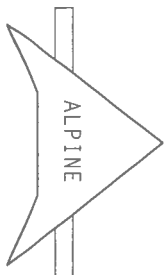
FL/-/4/-/R/-

Scale = .375"/ft.

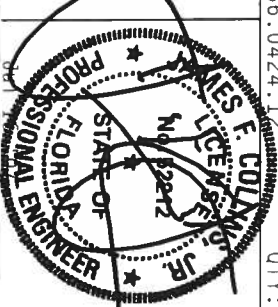
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (CONSULTING STRUCTURAL SAFETY INFORMATION) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED 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 CONDITIONS WITH APPLICABLE PROVISIONS OF 2010/16A (W/US/AS) ASHRAE 90.1-2010 (W/US/AS) ONLY. STEEL, APPLY 2. ALL TRUSSES SHALL BE MADE OF 2010/16A (W/US/AS) ASHRAE 90.1-2010 (W/US/AS) ONLY. STEEL, APPLY 2. DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AMS/TPI 1 SEC. 2.



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



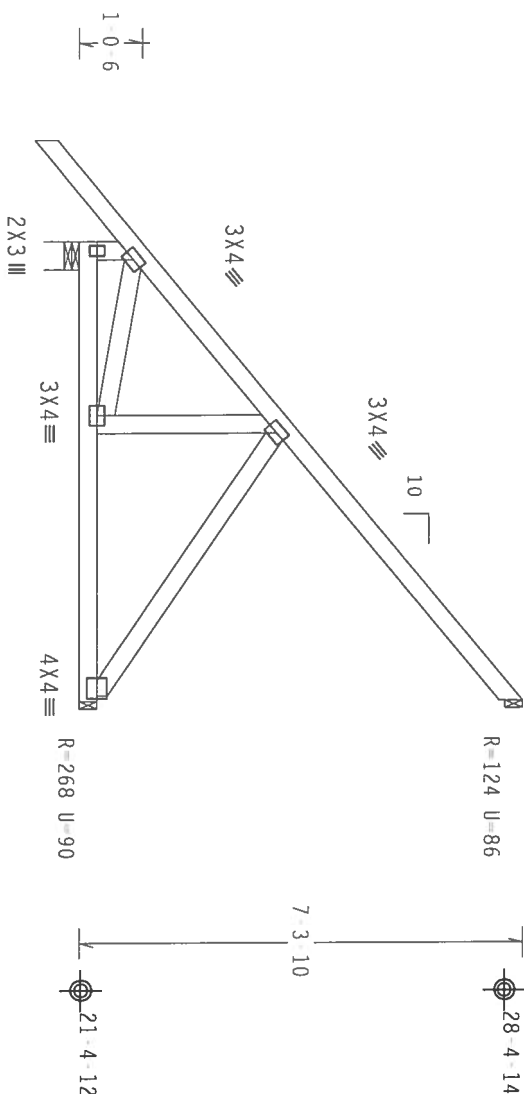
TC LL	20.0 PSF	REF R8228- 81202
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUR8228 07197001
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT. LD.	40.0 PSF	SEON- 2036
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228Z01

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	

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

110 mph wind, 24.87 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

Bottom chord checked for 20.00 psf non-concurrent live load.



180

← 7.6.5 Over 3 Supports →
R=456 W=5.5"

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424

QTY:1

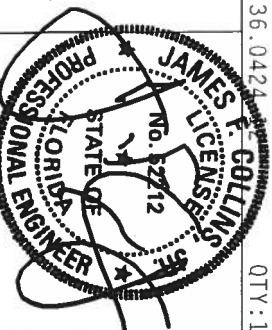
FL/-/4/-/-/R/-/

Scale = .3125"/Ft.

WARNING THESE BUILDING COMPONENTS CAME IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACKETING TO GC'S (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY IP1 (TRUSS PEAKE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NICK (TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE AVE., MIDLAND, TX 79701) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. OBTENMENT INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCUTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED TOP CHORD CLINGING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228- 81203
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07197011
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	2620
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

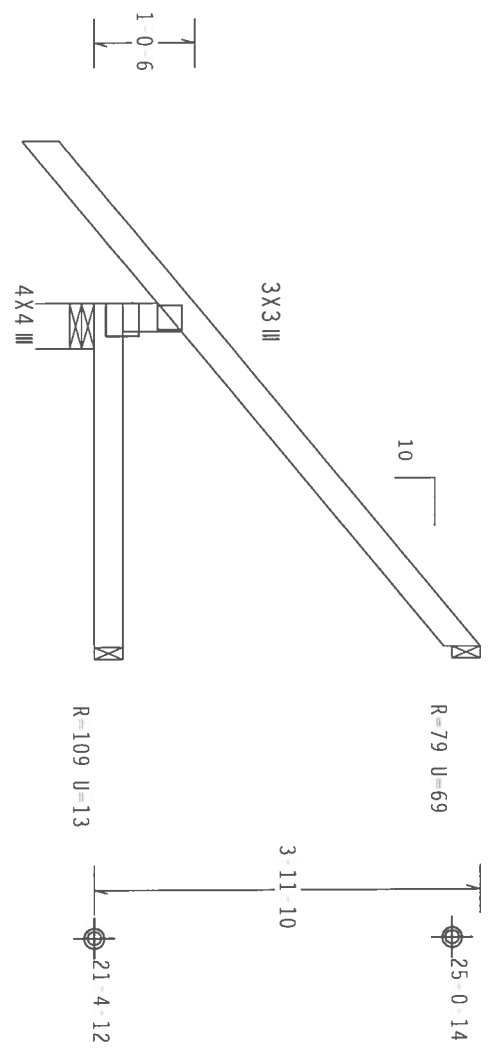
(7 140B - Isaac Construction Jeremy Cady , ** JB1)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MWFRS pressures.

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

110 mph wind, 23.20 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

Bottom chord checked for 20.00 psf non concurrent live load.

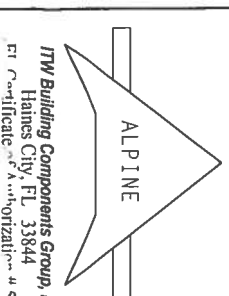


1-8-0
3-6-5 Over 3 Supports
R=299 U=6 W=5.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.36.0424 QTY:1 FL/-/4/-/-/R/- Scale =.5"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 216 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WICKA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE LANE, HANSON, MI 53129) 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.

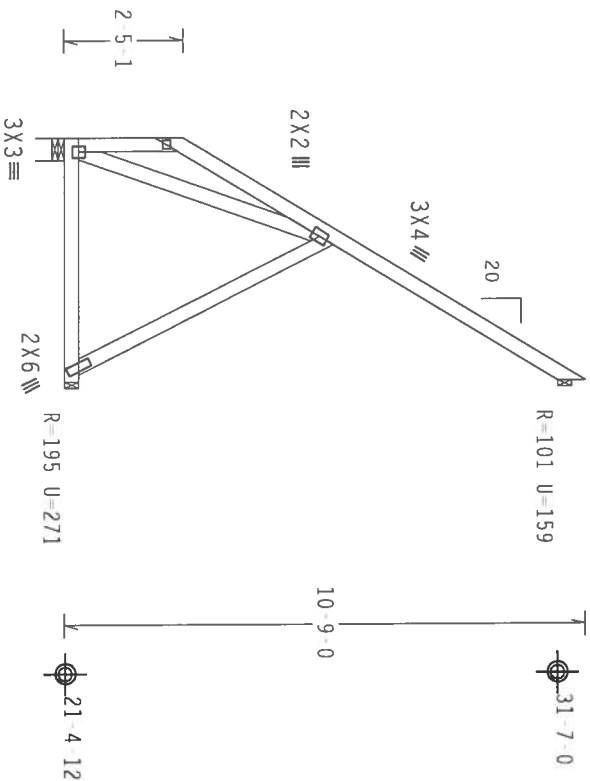
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF TRUSSES, BEING FABRICATED, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, BY ATRAP AND TPI. THE BCG DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AISC (STEEL INSTITUTE), AISC 360-10, AISC 360-16, AISC 360-22, AISC 360-23, AISC 360-24, AISC 360-25, AISC 360-26, AISC 360-27, AISC 360-28, AISC 360-29, AISC 360-30, AISC 360-31, AISC 360-32, AISC 360-33, AISC 360-34, AISC 360-35, AISC 360-36, AISC 360-37, AISC 360-38, AISC 360-39, AISC 360-40, AISC 360-41, AISC 360-42, AISC 360-43, AISC 360-44, AISC 360-45, AISC 360-46, AISC 360-47, AISC 360-48, AISC 360-49, AISC 360-50, AISC 360-51, AISC 360-52, AISC 360-53, AISC 360-54, AISC 360-55, AISC 360-56, AISC 360-57, AISC 360-58, AISC 360-59, AISC 360-60, AISC 360-61, AISC 360-62, AISC 360-63, AISC 360-64, AISC 360-65, AISC 360-66, AISC 360-67, AISC 360-68, AISC 360-69, AISC 360-70, AISC 360-71, AISC 360-72, AISC 360-73, AISC 360-74, AISC 360-75, AISC 360-76, AISC 360-77, AISC 360-78, AISC 360-79, AISC 360-80, AISC 360-81, AISC 360-82, AISC 360-83, AISC 360-84, AISC 360-85, AISC 360-86, AISC 360-87, AISC 360-88, AISC 360-89, AISC 360-90, AISC 360-91, AISC 360-92, AISC 360-93, AISC 360-94, AISC 360-95, AISC 360-96, AISC 360-97, AISC 360-98, AISC 360-99, AISC 360-100. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PERFORMED AS OF TPI-2002 SEC. 3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY 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.



FL/-/4/-/R		Scale = .5"/ft.	
TC LL	20.0 PSF	REF	R8228- 81204
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSUR8228 07197012
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON-	2615
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Webs	2x4	SP	#3	

110 mph wind, 27.98 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpi (+/-) 0.18



5 0 0 Over 3 Supports
 $\overleftarrow{\hspace{1.5cm}}$
 R=247 U=80 W=5.5"

PLT TYP. Wave

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

$$C_q/RT=1.00(1.25)/10(0)$$

7.36.0424

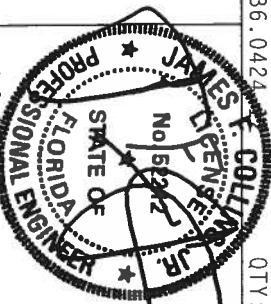
QTY:4 FL/-/4/-/-/R/-

Scale = .25" / Ft.

WARNING **RISK: UNLOADING EXISTING CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO RC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (FLOSS PATE INSTITUTE, 218 NORTH LEE STREET, SUITE 512, ALEXANDRIA, VA, 22314) AND TRUSS CONSULTING OF AMERICA, 65000 MIDWESTERN AVE, SUITE 307, WILSON, MI 49370) FOR SAFETY PRACTICES AND PRIOR TO PERFORMING THIS FUNCTION. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED FIELD CELLING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
Certificate of Authorization # 567

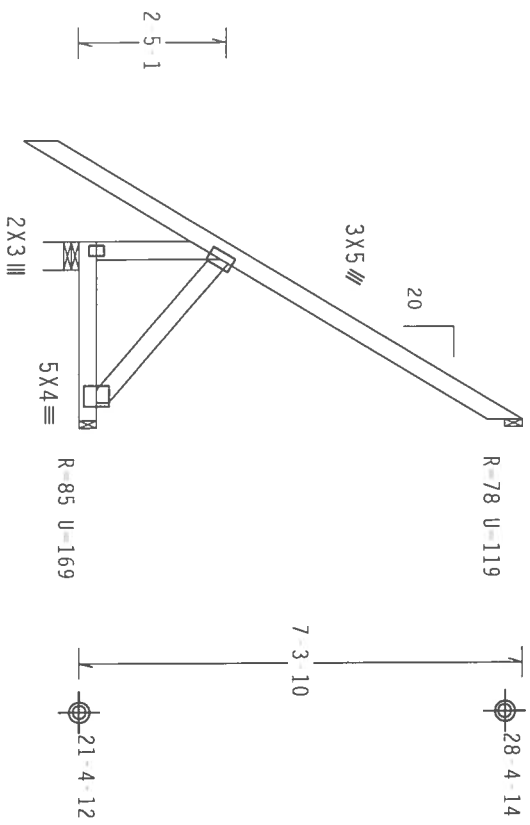


TC LL	20.0 PSF	REF	R8228- 81205
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197013
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2561
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

(7 140B - Isaac Construction Jeremy Cady , ** JB5)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.
Left end vertical not exposed to wind pressure.

110 mph wind, 24.87 ft mean hgt, ASCE 7-02, CLOSED bldg, located
anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC
DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18
Bottom chord checked for 20.00 psf non concurrent live load.
Deflection meets L/240 live and L/180 total load. Creep increase
factor for dead load is 1.50.



2-11 3 Over 3 Supports
R-330 U=35 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

QTY:1

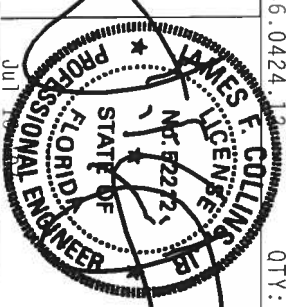
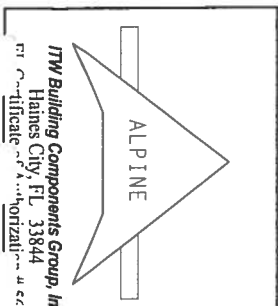
FL/-/4/-/-/R/-

Scale = .3125"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE 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 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. THE 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.

CONNECTION PLATES ARE MADE OF 20/10/10/10 (W, H, S, S, S) ASH A573 GRADE 40/60 (W, H, S, S) GALV. STEEL. APPLY TO ALL TRUSSES. ALL TRUSSES SHALL BE DESIGNED AND DETAILING PER DRAWING 2002-001. ANY INSPECTION OF PLATES FOLLOWED BY REVISION SHALL BE PERFORMED BY THE DESIGNER. THE TRUSS COMPONENTS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



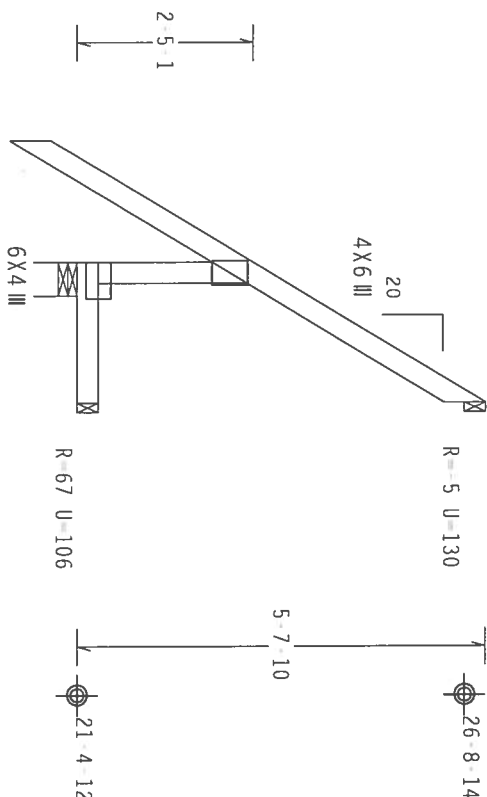
TC LL	20.0 PSF	REF	R8228- 81206
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197014
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON-	2601
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#2	Dense

Left 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.

110 mph wind, 24.04 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. $1w=1.00$ GCPI(+/-)=0.18



1-8-0
11-3 Over 3 Supports
R 302 U 23 W 5.5"

PLT TYP. Wave

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

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424.12

QTY:1 FL/-/4/-/-/R/-

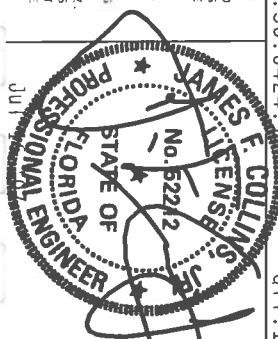
Scale = .375"/Ft.

-WARNING- ** FRIES RULING REQUEST CASE IN REBIDICATION, HANDLING, SHIPPING, INSTALLING AND REACTING
 ** TO GETS (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY FBI (FRIES PASTE INSTITUTE, 218
 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NICA (WOOD TRUSS COUNCIL OF AMERICA, 6300
 ENTERPRISE LANE, MADISON, MI, 48139) FOR SAFETY PRACTICES PRIOR TO RECONSTRUCTION THESE FUNCTIONS,
 OTHERWISE INDICATED FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCK URAI, PANELS AND BOTTOM CHORD SHALL HAVE
 PROPERLY ATTACHED FIELD CEILING.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844
 Certificate of Authorization # 667



TC LL	20.0 PSF	REF	R8228- 81207
IC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197015
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2605
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

(7-140B - Isaac Construction Jeremy Cady , ** JB3)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

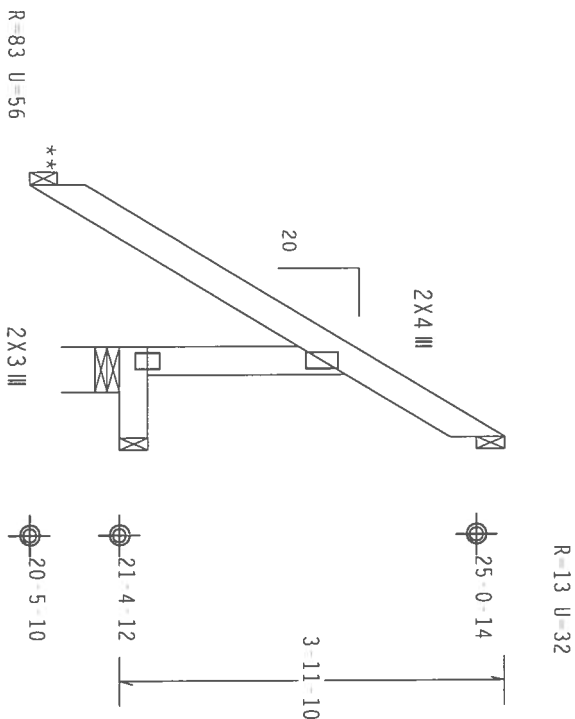
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

** FASCIA BEAM DESIGNED AND FURNISHED BY OTHERS. PROVIDE CONNECTION FOR REACTIONS SHOWN.

110 mph wind, 23.20 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. $I_w=1.00$ GCPI(+/-)=0.18

Bottom chord checked for 20.00 psf non-concurrent live load.

Shim all supports to solid bearing.



27-3 over 4 supports
R=151 U=152 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

7.36.0424

QTY:1

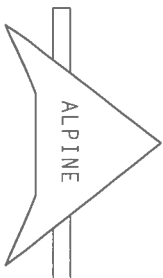
FL/-/4/-/R/-

Scale = .5"/Ft.

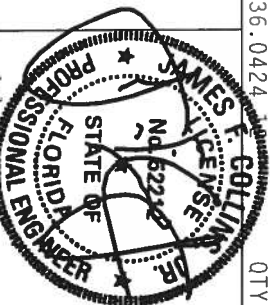
WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6200 ENTERPRISE 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 A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI 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 TO TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF THE NATIONAL DESIGN SPEC. BY AREA AND TPI. TRUSSES SHALL BE FABRICATED FROM STEEL. STEEL SHALL BE A36 OR A572. UNLESS OTHERWISE SPECIFIED, ALL PLATES TO EACH FACE OF TRUSS AND 10" UNLESS OTHERWISE LOCATED ON THIS DESIGN. POSITION PER DRAWINGS 1600, 2. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA A3 OR 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
For Certification # 627



TC LL	20.0 PSF	REF	R8228- 81208
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197017
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SECN-	2612
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	##2	Dense
Bot	chord	2x6	SP	##2	
	webs	2x4	SP	##3	

110 mph wind, 27.15 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 1, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 gcpi(+/-)=0.18

End verticals not exposed to wind pressure.

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.

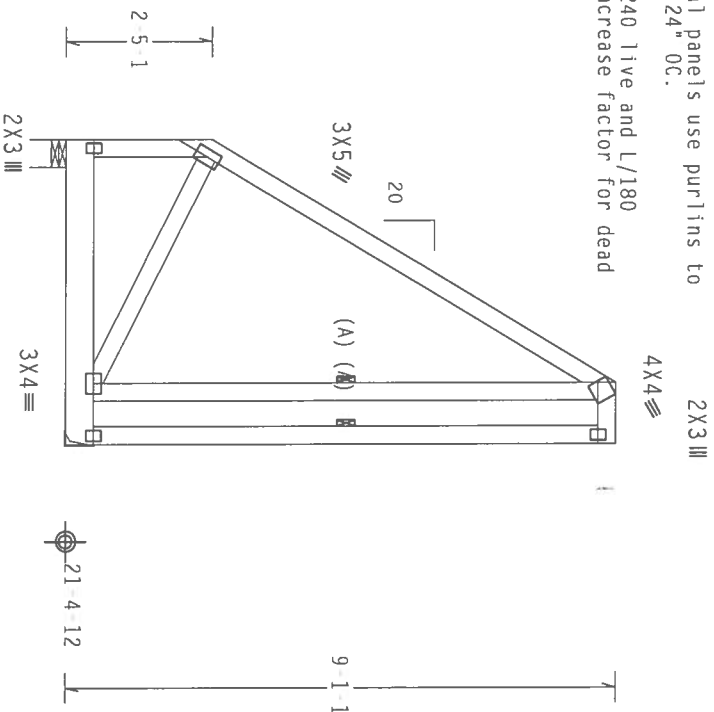


Diagram showing the elevation of a beam with the following dimensions and supports:

- Top span: 4'-0" (4'-0" 0)
- Bottom span: 1'-0" (1'-0" 0)
- Left support: $\Leftarrow 5'-0" \text{ over } 2 \text{ Supports} \Rightarrow$
- Right support: $\Leftarrow 5'-0" \text{ over } 2 \text{ Supports} \Rightarrow$
- Left end dimension: R-325 U-72 W-5.5"
- Right end dimension: R-560 U-109

PLT TYP. Wave

Design Crit: $TPI - 2002(STD) / FBC$ $Cq/RT=1.00(1.25)/10(0)$

7.36.0424 1200000000 QTY:1

QTY:1 FL/-/4/-/-/R/-

Scale = .3125"/Ft.

WARNING: THESE SERVICES REQUIRE EXTREME CARE IN PARTICIPATION, HANDLING, SHIPPING, INSTALLING AND BRACING. PARTICIPANTS MUST BE TRAINED AND QUALIFIED. FOR MORE INFORMATION, CONTACT THE FOLLOWING INDUSTRY EXPERTS:

REFLECTO DESIGNS, INC., BUILDING COMPLIANCE SAFETY INFORMATION, PUBLISHED BY THE STEEL PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 115, ALEXANDRIA, VA, 22314 AND RICK GOOD TRUSS COMPANY, INC., 63000 ENTERPRISE LAKE, HAWTHORN, VA 55129 FOR SAFETY PRACTICES PRIOR TO RECONSTRUCTING THESE STRUCTURES. INTERESTED PARTICIPANTS SHOULD HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITX AGG, INC. SHALL NOT

TRIP; OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION AND ORIENTED AS SHOWN. APPLY

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

BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.

1

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844
FI Certificate of Authorization # 567

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)

From	To	PLT at
79	0.00	79
From	4.00	PLT at
79	4.00	79

BC	From	To	PLF	PLF at
1C	11:01	4:00	20	20
1B	11:01	4:00	20	20

BC 391 LB Conc. Load at 4.00

Wind reactions based on MWFRS pressures.

(A) Continuous lateral bracing equally spaced on member.

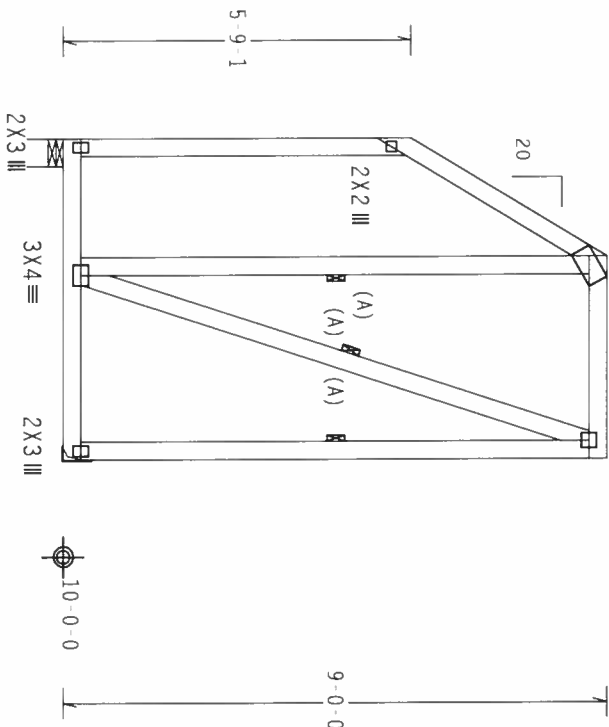
Bottom chord checked for 20.00 psf non-concurrent live load.

TC LL	20.0 PSF	REF	R8228- 81209
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07197021
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2643
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

Calculated horizontal deflection is 0.21" due to live load and 0.47" due to dead load.

Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50. 4X7 \Rightarrow 3X3 \equiv



110 mph wind, 17.38 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/)=0.18$

End verticals not exposed to wind pressure.

(A) Continuous lateral bracing equally spaced on member.

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

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424.1200

QTY:4 FL/-/4/-/-/R/-

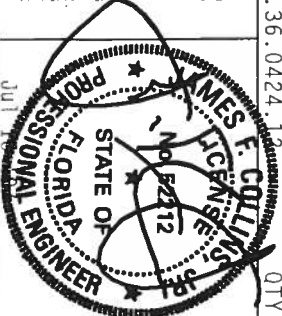
Scale = .3125"/Ft.

$\overline{1-11-6} \quad \overline{3-3-13}$
 $\overline{5-3-3}$ Over 2 Supports
 $R=260 \text{ U}=16 \text{ W}=5.5''$

WARNING THESE RIGID EXTERIOR CASES IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC51 (BUILDING COMPONENT SPECIFICATION), PUBLISHED BY IP1 (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND WICA (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESIGNED, UNDETERMINED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

AID TIME

ITW Building Components Group, Inc.
Haines City, FL 33844
ETI Certificate of Authorization # 6674



TC LL	20.0 PSF	REF	R8228- 81210
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197027
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	1644
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T93828Z01

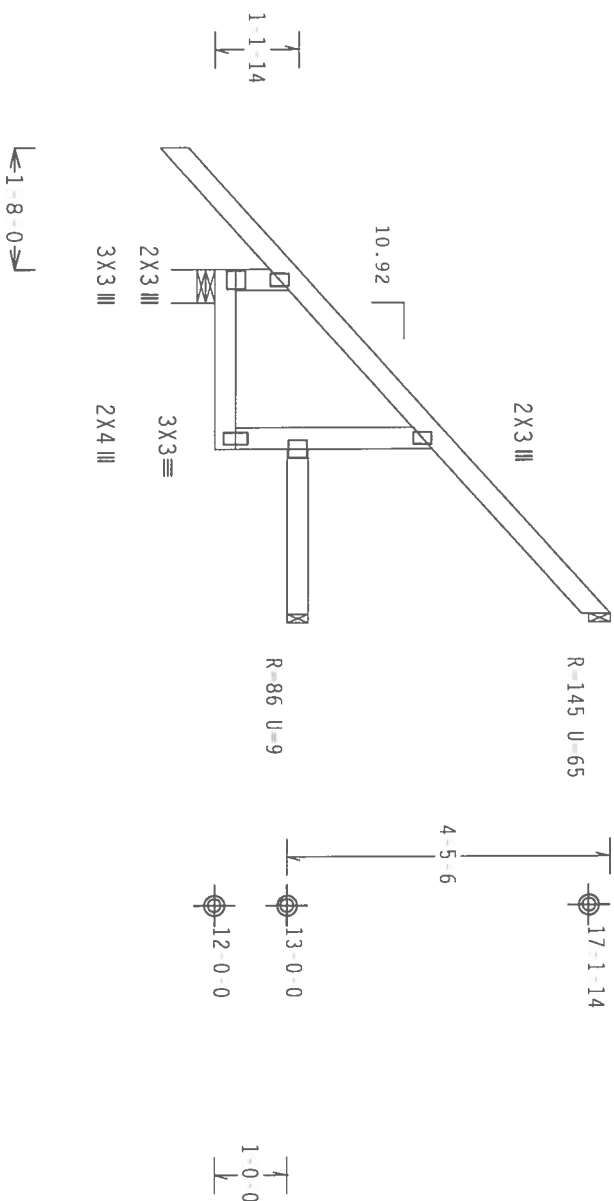
	Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense	
	Webbs	2x4	SP	#3		

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

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

Bottom chord checked for 20.00 psf non-concurrent live load.

Fasten rated sheathing to one face of this frame.



2-5-8	2-3-1
≤4-8-9 Over 3 Supports	
R-347 W-5.5"	

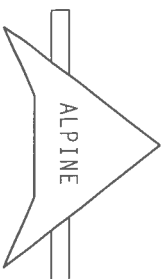
PLT TYP. Wave

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

7.36.0424

QTY:2 FL/-/4/-/-/R/-

Scale = .375"/Ft.

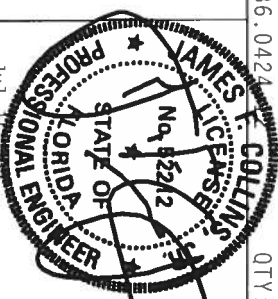


ITW Building Components Group, Inc.
Haines City, FL 33844
FI Certificate of Authorization # 547

****WARNING**** THESE BUILDING EXISTING CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO RCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COMPANY, OF AMERICA, 6500 ENTERPRISE LANE, HOUTZIE, MI, 52319) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. THESE OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** TRANSMIT A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE RCG, 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 A BRACING OF TRUSSES.

DESIGN COMPLIES WITH APPLICABLE REQUIREMENTS OF NDS (NATIONAL DESIGN SPEC. BY AIA/A) AND TPI. THE RCG CONNECTION PLATES ARE MADE OF 2018/166GA (W-155/55) ASH ASSI GRADE 40/60 (W, K/H/55) GALV. STEEL. APPLY PLATES TO EACH FACE OF TRUSS AND, (U) SHALL BE PER AREA A3 OF TPI 1.2022 SEC.3. A SEAL ON THIS AN INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AREA A3 OF TPI 1.2022 SEC.3. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PERFORMANCE, 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	REF	R8228- 81211
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197033
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2021
DUR.FAC.	1.25		
SPACING	24.0"	JRFF-	1T938228Z01

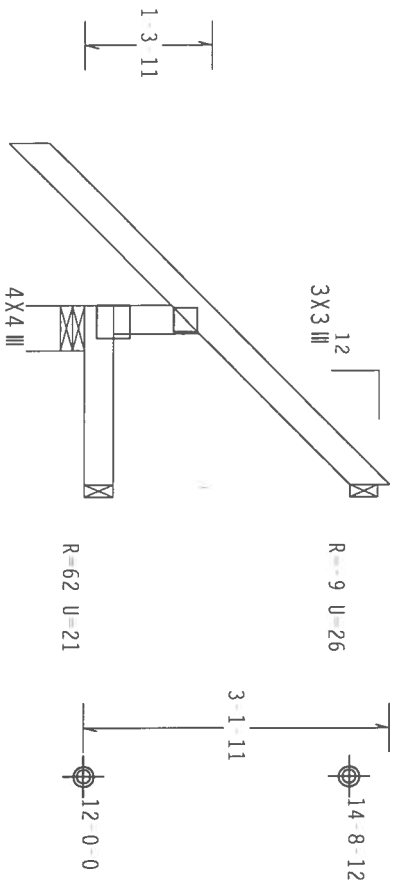
(7 140B--Isaac Construction Jeremy Cady . ** JR1)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

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

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

Bottom chord checked for 20.00 psf non concurrent live load.



1-8-0
1-10-0 over 3 supports
R=260 W=5.5"

PLT TYP. Wave

Design Crit: TP1-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

7.36.0424.17

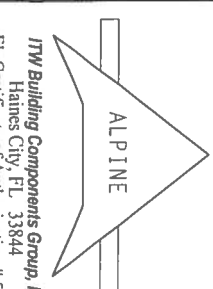
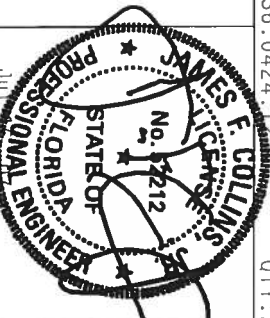
QTY:2 FL/-/4/-/R/-

Scale =.5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCST (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND NCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 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 A PROPERLY ATTACHED RIGID CEILING.

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

CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH THE FOLLOWING: (a) 2X4/2X6 GALT STEEL: APPLY PLATES TO EACH FACE OF TRUSS AND (b) UNLESS OTHERWISE LOCATED AS NOTED ON PERMANENT STAMPS OR 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 AISI/TPI 1 SEC. 2.



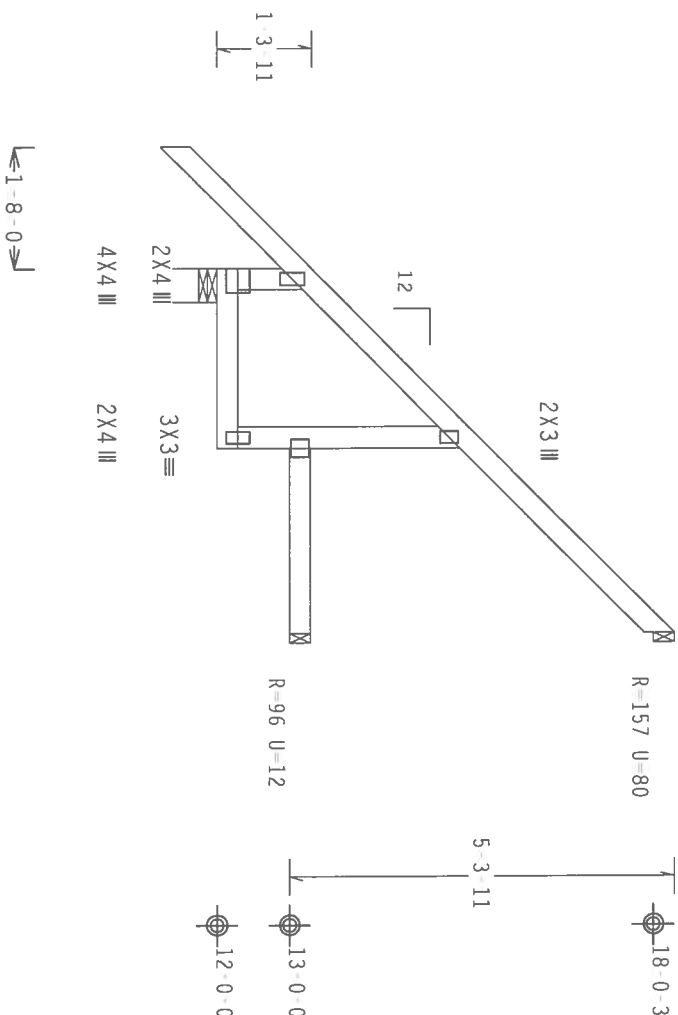
ITW Building Components Group, Inc.
Haines City, FL 33844
Tel: 888-444-ALPINE
Fax: 888-444-ALPINE

TC LL	20.0 PSF	REF R8228- 81212
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07197034
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 2028
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228201

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, Exp B, Wind TC DL=5.0 psf, wind BC DL=5.0 psf, Iw=1.00 Gcpi(+/-)0.18


$$\begin{array}{r} 1 \\ 100 \\ \hline \end{array}$$

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

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424:12

QTY:3

FL/14/11/R/

Scale = .375"/Ft.

*-WARNING- FIRE'S BUILDING EXISTENCE CASE IN FABRICATION, HANDING, SHIPPING, INSTALLING AND BRACING REFER TO GC'S (INCLUDING COMPETENT SAFETY INFORMATION) - PUBLISHED BY THE TRUSS PLATE INSTITUTE, 218 NORTH IEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COMPANY) OF AMERICA, 6300 ENTERPRISE LANE, SUITE 401, #13719 FOR SAFETY PRACTICES AND PRICE TO PREVENT THESE ACTIONS. UNLESS OTHERWISE INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT****FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITW BCG, INC. SHALL NOT

1P1, OR FABRICATING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

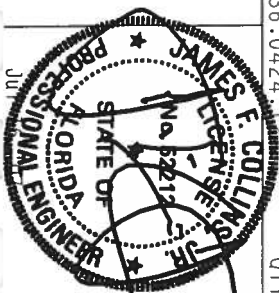
CONNECTOR PLATES ARE MADE OF 20/18/16GA (W, H/SS/K) ASTM A653 GRADE 40/60 (W, K/H,SS) GALV. STEEL. APPLY

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF IP11 2002 SEC.3. A SEAL ON THIS

DESIGN SHOW. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE

100

ITW Building Components Group, Inc.
Haines City, FL 33844
Certificate #FA00000121



TC LL	20.0 PSF	REF	R8228- 81213
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197035
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2031
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	

110 mph wind, 15.33 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCpl (+/-)=0.18

Wind reactions based on MWRFS pressures.

Left end vertical not exposed to wind pressure.

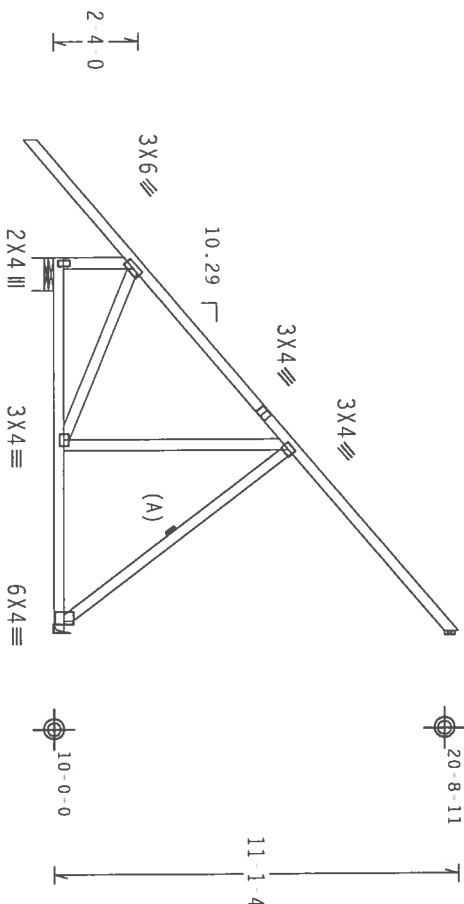
(A) Continuous lateral bracing equally spaced on member.

Bottom chord checked for 20.00 psf non-concurrent live load.

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

Top chord overhangs have been checked only for loads as indicates. Overhangs not checked for man loads or long-term deflection.

R=235 U=112



LE3-2-14A

 $\leq 10^{-2} \cdot 13$ Over 3 Supports \Rightarrow

R=1173 U=457 W=10.69"

$$R=1148 \quad U=461$$

PLT TYP. Wave

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

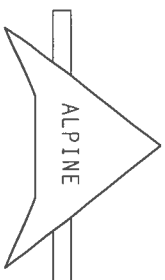
 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424.12

QTY:2

FL/-/4/-/-/R/-

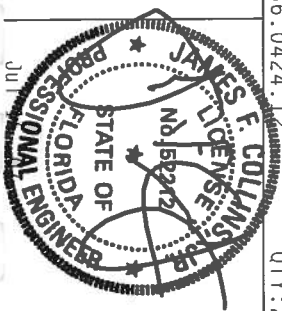
Scale = .1875"/Ft.



WARNING FRICKS, RICHARD, EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING MUST BE USED (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY FBI (FRICK PLASTIC INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (GOOD ROUGH COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53719) FOR SAFETY PRACTICES PRIOR TO REINFORCING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PAPER AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

SPECIAL LOADS			
	(LUMBER	DUR. FAC.=1.25 /	PLATE DUR. FAC.=1.25)
TC	From	66 PLF at -3.24 to	66 PLF at 10.22 at 0.00
BC	From	5 PLF at -3.24 to	5 PLF at 0.00 to 20 PLF at 10.22
TC	From	20 PLF at 0.00 to	
TC	48 LB Conc. load at	2.31	
TC	-2 LB Conc. load at	3.31	
TC	106 LB Conc. load at	5.64	
TC	185 LB Conc. load at	5.90	
TC	152 LB Conc. load at	7.97	
BC	88 LB Conc. load at	2.01,	5.64
BC	44 LB Conc. load at	3.31,	
BC	187 LB Conc. load at	5.90	
BC	125 LB Conc. load at	7.97	
BC	419 LB Conc. load at	9.79	

5.64



TC LL	20.0 PSF	REF	R8228- 81214
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07197036
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON-	1669
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

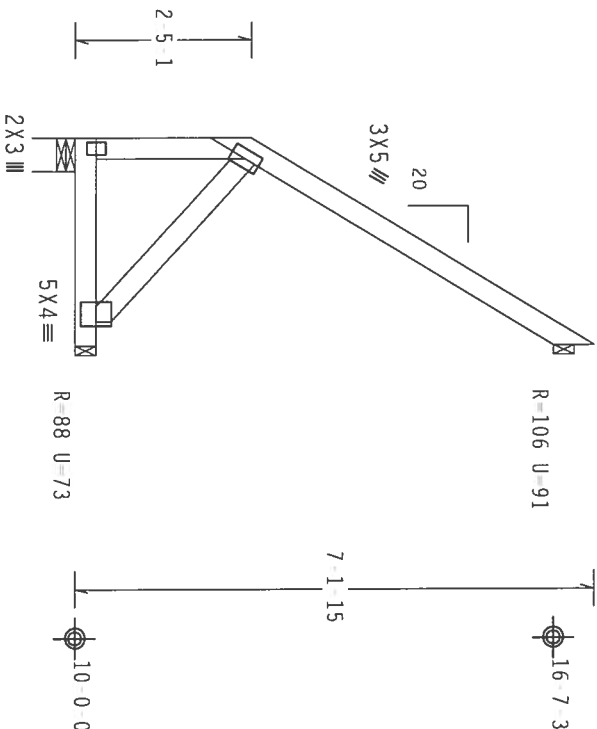
ITW Building Components Group, Inc.
Haines City, FL 33844
Telephone: 800/368-7272
Fax: 800/368-7272

Left end vertical not exposed to wind pressure.

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 GCpf(+/-)=0.18

Bottom chord checked for 20.00 psf non-concurrent live load.

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



2-10-3 Over 3 Supports
R-141 U-53 W-5.5"

PLT TYP. Wave

Design Crit: $TPI - 2002(STD) / FBC$ $Cq/RT=1.00(1.25)/10(0)$

7.36.0424 1.

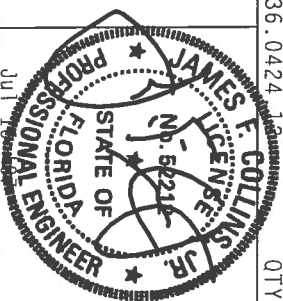
QTY:2 FL/-/4/-/-/R/-

Scale = .375"/Ft.

WARNING: ALL FRAMES REQUIRE EXPLICIT CARE IN FABRICATION, HANDLING, UNLOADING, INSTALLING AND PROTECTING. REFER TO GC-1 (BUILDING COMPONENT SAFETY INFORMATION) - PUBLISHED BY IPI (FRASS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC (GOOD TRUSS COUNCIL OF AMERICA), 6500 ENTERPRISE LANE, MOBILE, AL 36619 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNDESSED, UNTHREADED INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
Telephone 800-368-5722



TC LL	20.0 PSF	REF	R8228- 81215
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197042
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	1606
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Web	2x4	SP	#2	Dense

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

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. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Bottom chord checked for 20.00 psf non-concurrent live load

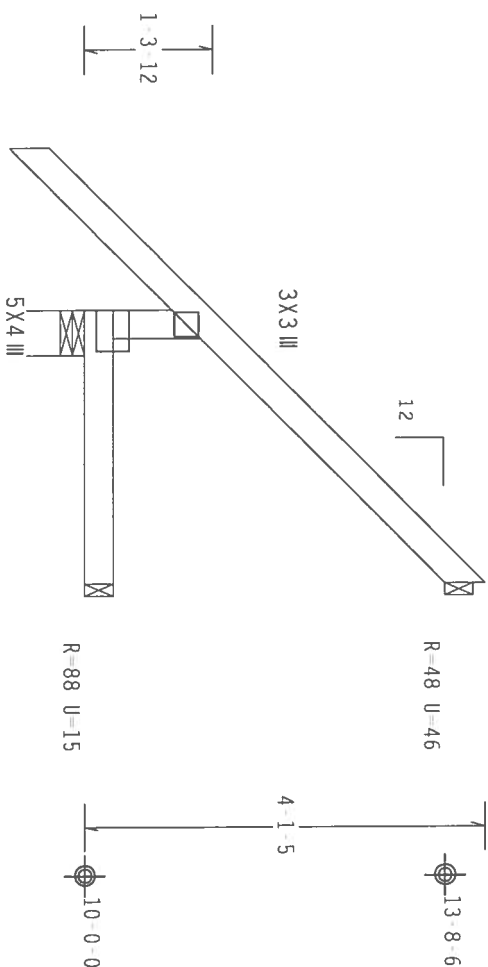


Diagram of a continuous beam with three supports. The beam is divided into four segments: 10' from the first support, 9' from the first to the second support, 10' from the second to the third support, and 5.5' from the third support to the end. The total length is 34.5'. The beam is labeled "2 x 9-10 Over 3 Supports" and "R=284 W=5.5\".

PLT TYP. Wave

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

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424 7

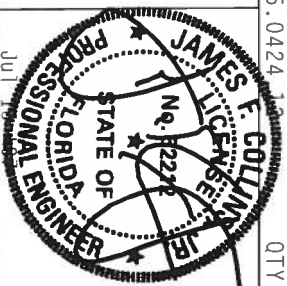
QTY:2 FL/-/4/-/-/R/-

Scale = .5"/Ft.

WARNING ALL PARTIES (BUILDING, EXISTING, CARE, IN FABRICATION), HANDLING, SHIPPING, INSTALLING AND BRACING TO BE USED (BUILDING COMPONENTS, SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK (WOOD TRUSS COMPANY) OF AMERICA, 6500 INTERSTATE AVE, MIDLAND, TX, 79701 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE OPERATIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PALETS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
F1 Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228- 81217
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197048
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	1599
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

(7 140B - Isaac Construction Jeremy Cady . ** JR5)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

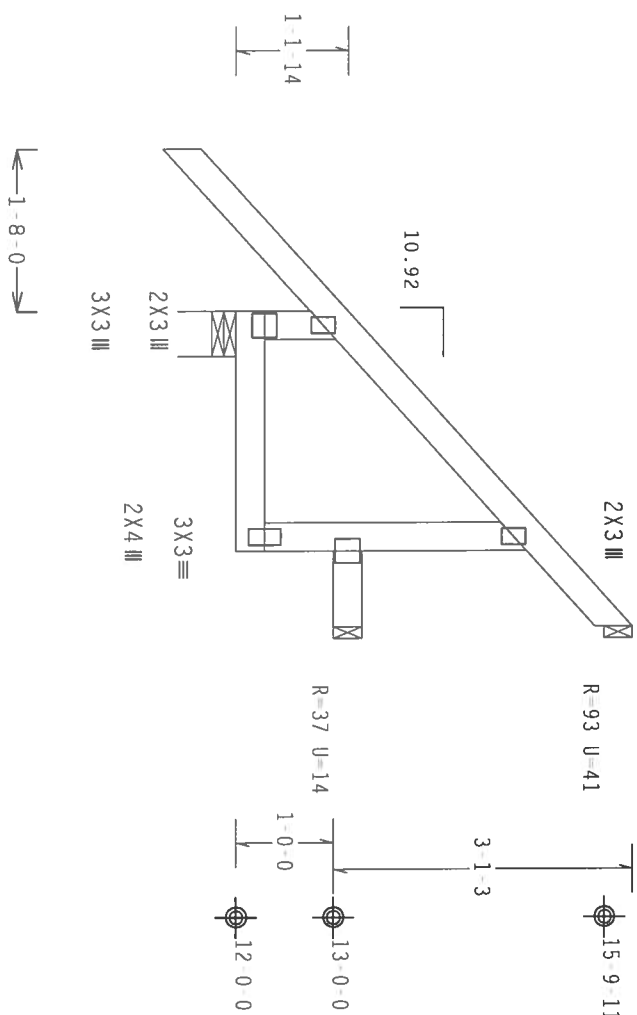
Wind reactions based on MWFRS pressures.

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

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

Bottom chord checked for 20.00 psf non concurrent live load.

Fasten rated sheathing to one face of this frame.



2-5-8
3-2-13 over 3 supports
0-9-5
R-293 W 5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

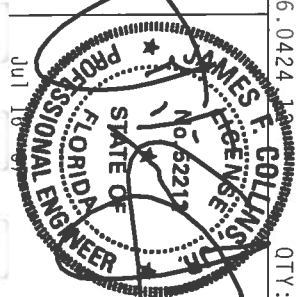
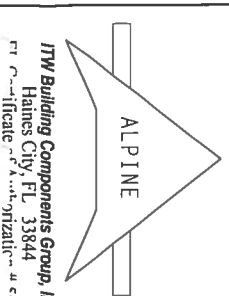
QTY:2 FL/-/4/-/R/-

Scale = .5"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCES (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE 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 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. TITW 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 CONDITIONS WITH APPLICABLE PROVISIONS OF BCS (NATIONAL DESIGN SPEC. BY ACPA) AND TPI. TITW BCG DESIGN AND MANUFACTURE 2007/04/04 (4/25/07) ASH 6053 GRADE 40/60 (40/50/55) GALV. STEEL. APPLY FINISHES TO EACH FACE OF TRUSS AND WEBS. TITW BCG SHALL BE RESPONSIBLE FOR A SEALS ON THIS ANY INSPECTION OF PLATES FORCED BY TITW BCG SHALL BE PERMITTED BY TITW BCG. TITW BCG SHALL BE RESPONSIBLE FOR THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



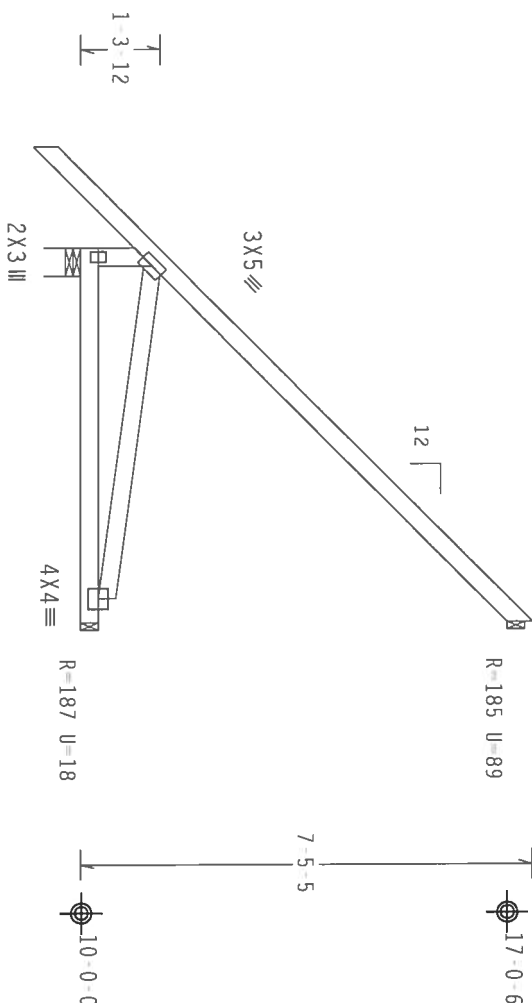
TC LL	20.0 PSF	REF	R8228- 81218
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197049
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2017
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Web	2x4	SP	#3	

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

110 mph wind, 15.00 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. Iw=1.00 Gcpi(+/-)=0.18

Bottom chord checked for 20.00 psf non concurrent live load.



180

6-1-10 Over 3 Supports \Rightarrow
R=411 W=5.5"

PLT TYP. Wave

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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424

QTY:2

FL/-/4/-/-/R/-/

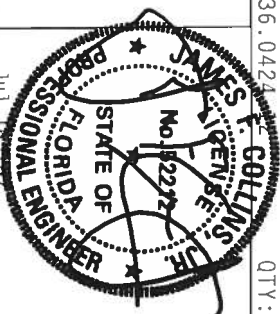
Scale = .3125"/Ft.

WARNING—FIRMS RECEIVING EXTRA CHARGE IN FABRICATION, HANDLING, SHIPPING, INSTALLING, AND PRACTICING THE FOLLOWING PRACTICES ARE REQUESTED TO ADVISE THE TRUSS PANEL MANUFACTURER OF THE SAME. REFER TO DC51 (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY THE TRUSS PANEL INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314, AND AISC (GOOD TRUSS COUNCIL OF AMERICA, 65000 CHESAPEAKE LANE, SUITE 501, 53179) FOR SAFETY PRACTICES PERTAINING TO MEMBER, JOIST CONNECTIONS, UNDESIRABLE, 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

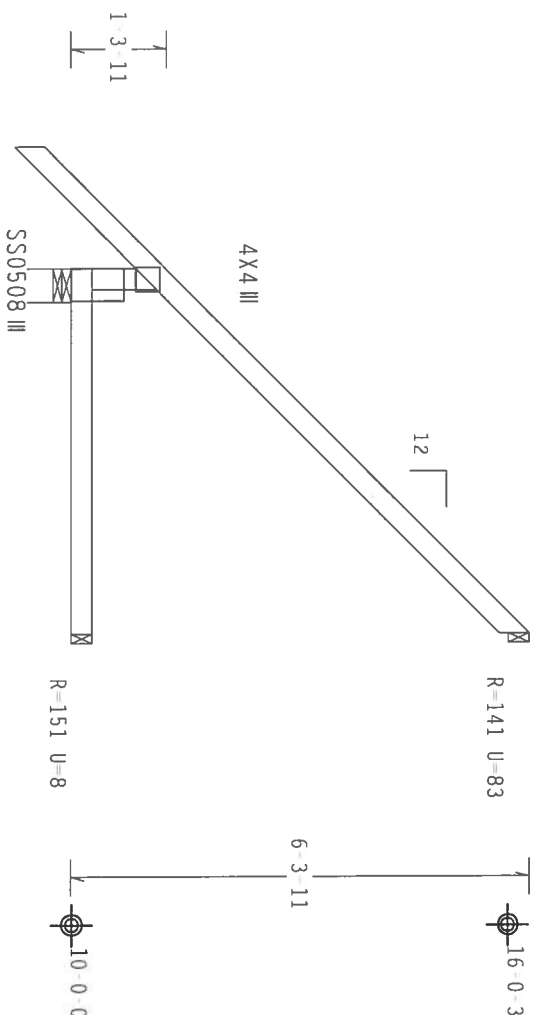


TC LL	20.0 PSF	REF	R8228- 81219
TC DL	10.0 PSF	DATE	07//16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197050
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	1596
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#2	Dense

Bottom chord checked for 20.00 psf non concurrent live load.

110 mph wind, 15.00 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpi (+/-)=0.18



180

$\leftarrow 5-0-0$ Over 3 Supports \rightarrow
 $R=364$ $W=5.5"$

PLT TYP. 18 Gauge HS, Wave

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

7.36.0424 QTY:4

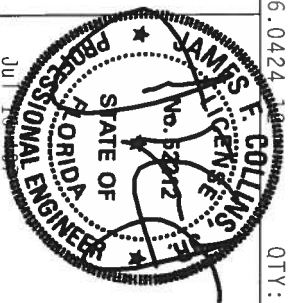
QTY:4 FL/-/4/-/-/R/-

Scale = .375"/Ft.

[illegible]

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
ITW Certificate of Authorization # 4567



TC LL	20.0 PSF	REF	R8228- 81220
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197051
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEON-	1954
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

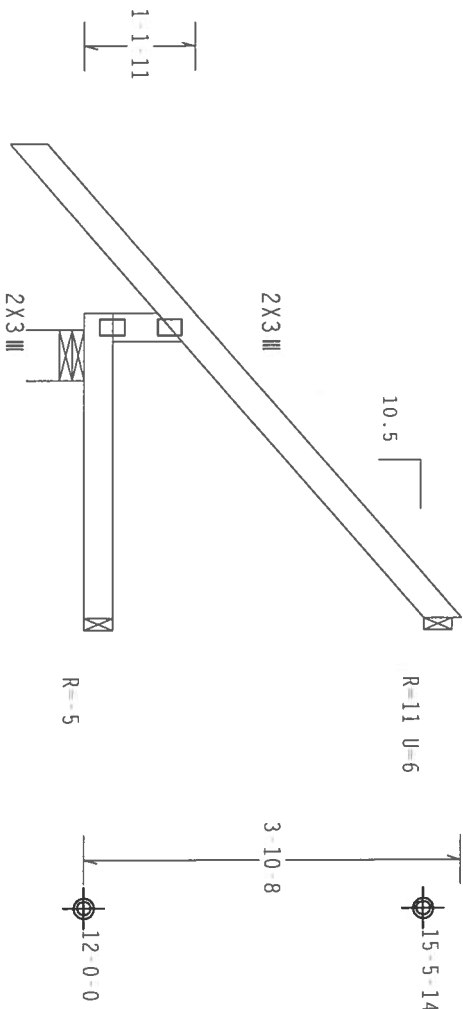
Sub-fascia beam assumptions: 3-5 4 sub-fascia beam on the 0-1 7 cantilever side, 3-5 4 sub-fascia beam on the 0-1 7 cantilever side.

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

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP B, wind TC D1=5.0 psf, wind BC D1=5.0 psf. Iw=1.00 GCPI(+/-)=0.18

The following trusses need concentrated loads at the end of their overhangs: 2-2-9 span/setback member on the 0-1-7 cant side requires 18 lbs and the 2-2-9 span/setback member on the 0-1-7 cant side requires 18 lbs.

Hipjack supports 2-2-9 setback jacks with 0-1-7 cantilever one face; 0-1-7 cantilever opposite face.


$$\begin{array}{r} \leftarrow 1-8-13-\overline{0-2-1} \end{array}$$

≤ 3.19 Over 3 Supports \Rightarrow
 $R=172$ $U=13$ $W=6.288"$

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0)$

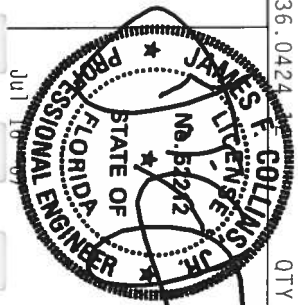
QTY:2 FL/-/4/-/-/R/-

Scale = .5"/Ft.

[illegible]

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
E1 Certificate of Authorization # 567



TC LL	20.0 PSF	REF	R8228- 81222
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSUR8228 07197056
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON-	2040
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	

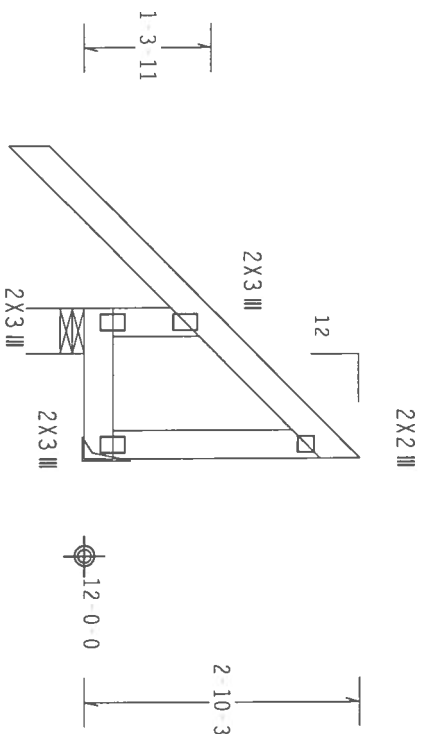
Bottom chord checked for 20.00 psf non concurrent live load.

Fasten rated sheathing to one face of this frame.

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

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.



1-6-8 Over 2 Supports

R=258 W=5.5"
R=37 U=41

PLT TYP. Wave

Design Crit: $TPI-2002(STD)/FBC$ $Cq/RT=1.00(1.25)/10(0)$

7.36.0424

QTY:1

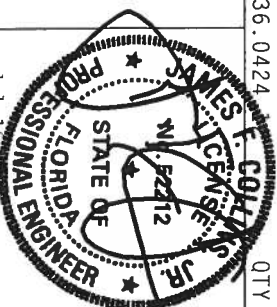
FL/-/4/-/-/R/-

Scale = .5"/Ft.

WARNING THESE BROTHER EXTERIOR CASE TREATMENT, MAINTENANCE, SHIPMENT, INSTALLING AND BRACKETING TO NCST (BUILDING COMPONENT CASE TREATMENT) PUBLISHED BY TPI (TRESS PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICK 6000 TRUSS CONSULT, OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI 53729) FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE ACTIONS. UNDESIRABLE OUTCOMES INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PAPER AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CELLING.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
F1 Certificate of Authorization # 567

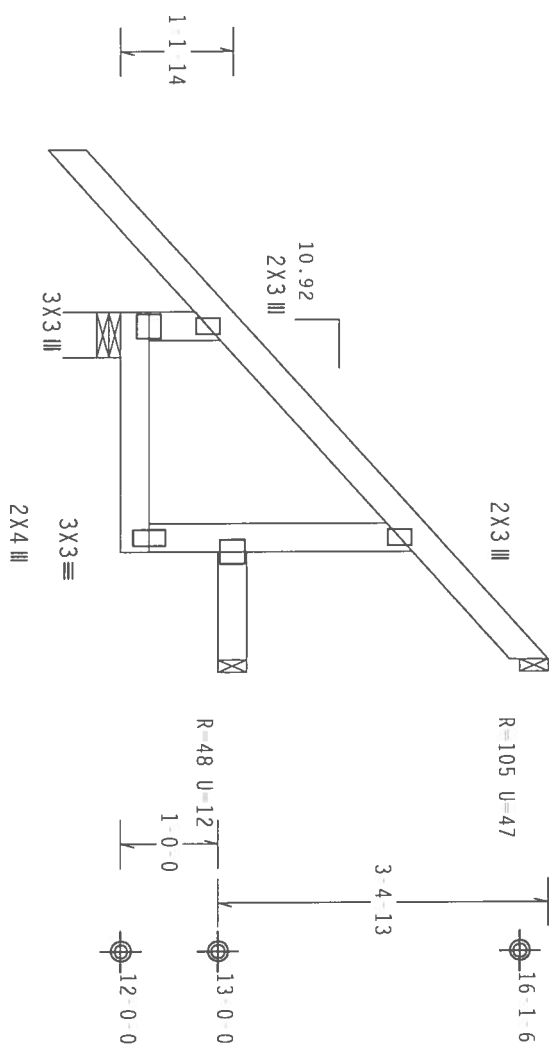


Jul 16 07

TC LL	20.0 PSF	REF	R8228- 81223
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCU8R8228 07197057
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2074
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

(7-140B - Isaac Construction Jeremy Cady . ** - JR3)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #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. lw=1.00 GCPI(+/-) 0.18

Wind reactions based on MWFRS pressures.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.
Bottom chord checked for 20.00 psf non concurrent live load.
Fasten rated sheathing to one face of this frame.



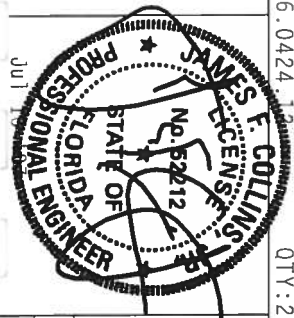
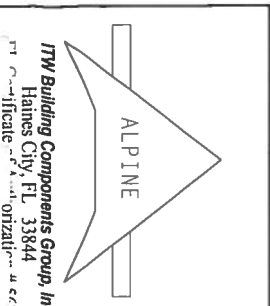
2-5-8 1-1-5
3-6-13 over 3 Supports
R=304 W=5.5"

PLT TYP. Wave Design Crit: TPI-2002(STD)/FBC Cq/RT=1.00(1.25)/10(0) 7.36.0424 12 QTY:2 FL/-/4/-/R/- Scale=.5"/Ft.

WARNING TRUSSES REQUIRE EXTERNAL CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSEI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE 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 TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TITW 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 CONDITIONS WITH APPLICABLE PROVISIONS OF ROS (NATIONAL DESIGN SPEC. BY AREA) AND TPI. TITW BCG CONNECTION DETAILS ARE MADE OF 20/18/16/14 (4/11/5/2/1) ASH LAKES GRADE 40/60 (4, 6/7/1/5/1) GALV. STEEL. APPLY TO ALL CONNECTIONS UNLESS OTHERWISE INDICATED. THIS DESIGN IS FOR THE TRUSS COMPONENTS ONLY. ANY INSPECTION OF THE TRUSSES SHALL BE DONE BY A LICENSED PROFESSIONAL ENGINEER. THE TRUSS COMPONENTS DESIGN SHOWS THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



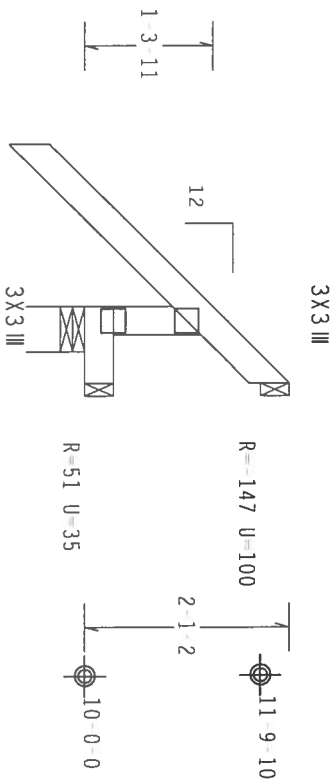
TC LL	20.0 PSF	REF R8228- 81224
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07197062
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 2024
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228201

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#2	Dense

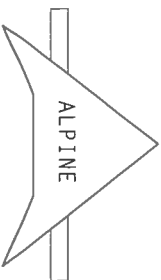
Deflection meets $L/240$ live and $L/180$ total load. Creep increase factor for dead load is 1.50.

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP 8, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ GCPI(+/-)=0.18

Bottom chord checked for 20.00 psf non-concurrent live load.



PLT TYP. Wave



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

 $Cq/RT=1.00(1.25)/10(0)$

7.36.0424.12

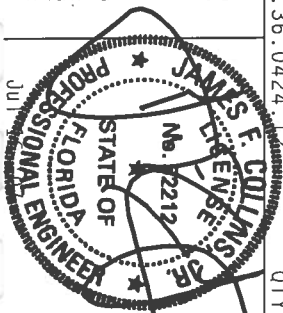
QTY:2 FL/-/4/-/-/R/-

Scale = .5"/Ft.

[illegible]

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, IIR BCG, INC., SMALL NOT BE RESPONSIBLE FOR ANY DETAILING FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE FABRICATING, HANDLING, SHIPPING, INSTALLING, BRACING OF TRUSSES.

DESIGN CONDITIONS AND APPLICABLE PROVISIONS OF 1005 (ADDITIONAL DESIGN SPEC. BY AREA) AND THE RECOMMENDED MATERIALS AND METHODS OF CONSTRUCTION OF 1006 (ADDITIONAL DESIGN SPEC. BY AREA) SHALL BE APPLIED TO THE CONDUCTOR PLATES AND HAD OF 20/18/166A (A/H/55/2) ASTM A653 GRADE 40/60 (A/H/55) GALV. STEEL. APPLY THE SAME TO EACH FACE OF 1005 AND 1006. UNLESS OTHERWISE LOCATED ON THIS DESIGN POSITION PER DRAWINGS 1606-2. THE BUILDING DESIGNER SHALL BE RESPONSIBLE FOR THE PROVISION OF THE CONDUCTOR PLATES FOLLOWED BY (1) SHALL BE PER AREA AS OF 11/1 2002 SEC.3. A SEAL ON THIS DESIGN INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TONS COMPONENTS OF THE DESIGN SHOWN. THE SUSTAINABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/PP1 1 SEC. 2.



TC LL	20.0 PSF	REF	R8228- 81225
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197066
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	1964
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, 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.

Calculated horizontal deflection is 0.19" due to live load and 0.19" due to dead load.

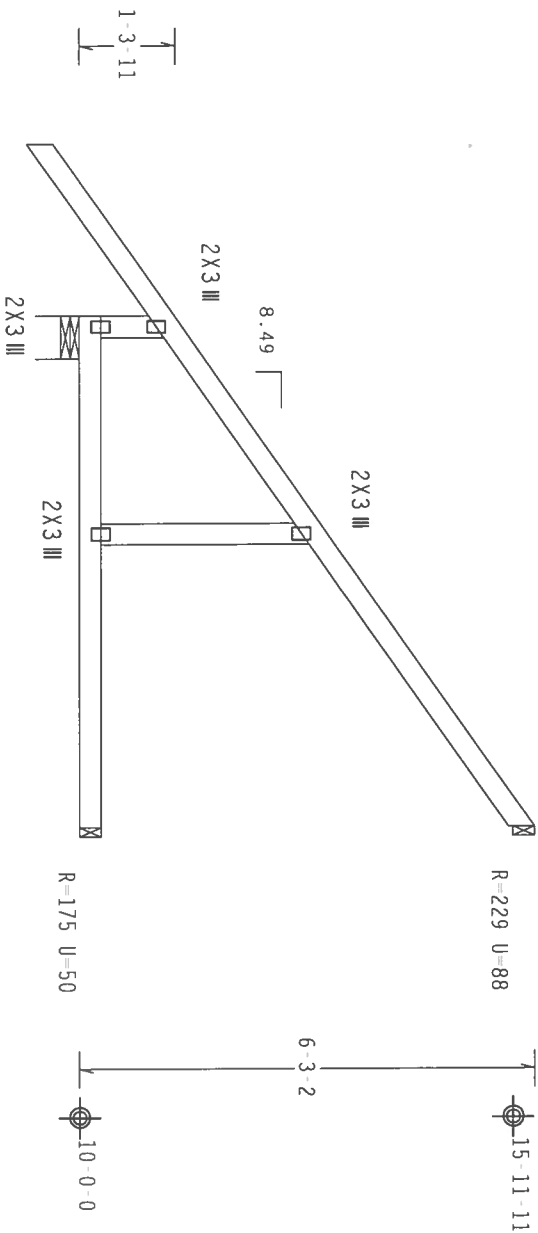
Fasten rated sheathing to one face of this frame.

SPECIAL LOADS

(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)
TC - From 64 PLF at -2.36 to 64 PLF at 7.01
BC - From 5 PLF at -2.36 to 5 PLF at 0.00
BC - From 20 PLF at 0.00 to 20 PLF at 7.01
TC - 294 LB Conc. Load at 1.20
TC - 94 LB Conc. Load at 4.03
BC - 102 LB Conc. Load at 1.20
BC - 175 LB Conc. Load at 4.03

Bottom chord checked for 20.00 psf non concurrent live load.

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



R=443 U=355 W=7.028"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

QTY:1

FL/-/4/-/R/-

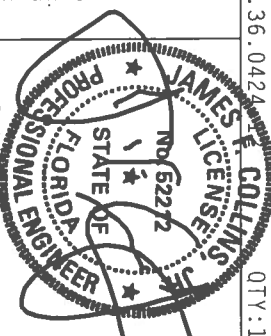
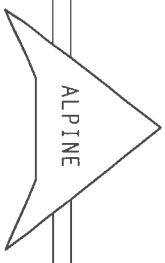
Scale = .375"/ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO NCST (NATIONAL CONSTRUCTION SAFETY INSTITUTE) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314 AND NCCA (NATIONAL TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE PARK, HADISON, NJ 07419) 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. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OR BRACING OF TRUSSES, TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NCS (NATIONAL CONSTRUCTION SAFETY INSTITUTE) PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314 AND NCCA (NATIONAL TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE PARK, HADISON, NJ 07419) 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.

TW Building Components Group, Inc.
Haines City, FL 33844
Toll Free 1-800-368-7777
Fax 888-368-7777



TC LL	20.0 PSF	REF R8228- 81226
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUR8228 07197068
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 1968
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228Z01

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	

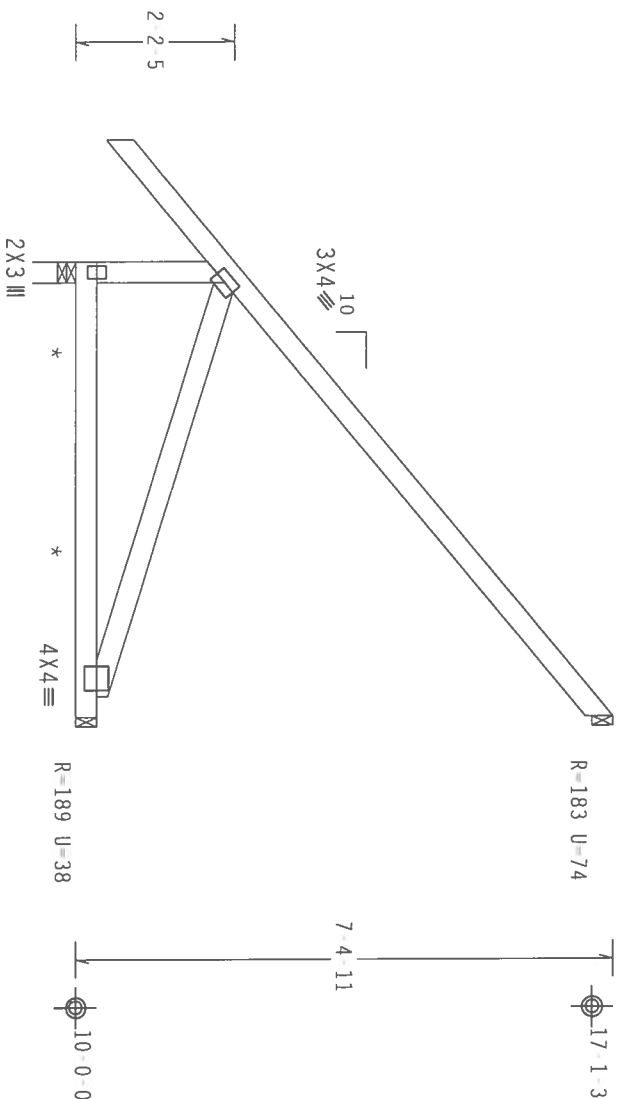
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO
DETERMINE IF THIS IS ACCEPTABLE.*

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 lw=1.00 Gcpi (+/-)-0.18

Bottom chord checked for 20.00 psf non-concurrent live load.

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



1-8-0

← 6-2-13 Over 3 Supports →
R=403 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

 $C_q/RT=1.00(1.25)/10(0)$

7.36.0424

QTY:1

FL/-/4/-/-/R/-/

Scale = .375"/Ft.

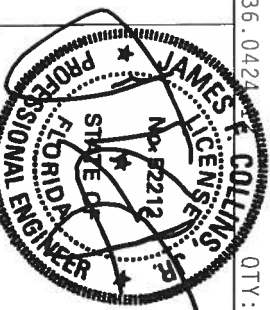
WARNING: THESE PRACTICES REQUIRE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND PRACTICING TO AVOID BUILDING COMPONENTS THAT ARE INADEQUATELY DESIGNED. PUBLISHED BY THE TRUSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WICKIWOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MIDLOTHIAN, VA, 55129 FOR SAFETY PRACTICES RELATIVE TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844

The Certificate of Authorization is # 5877



Jul 16 07

TC LL	20.0 PSF	REF	R8228- 81227
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197069
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	1767
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

SPACING 24.0"

JREF - 1T938228Z01

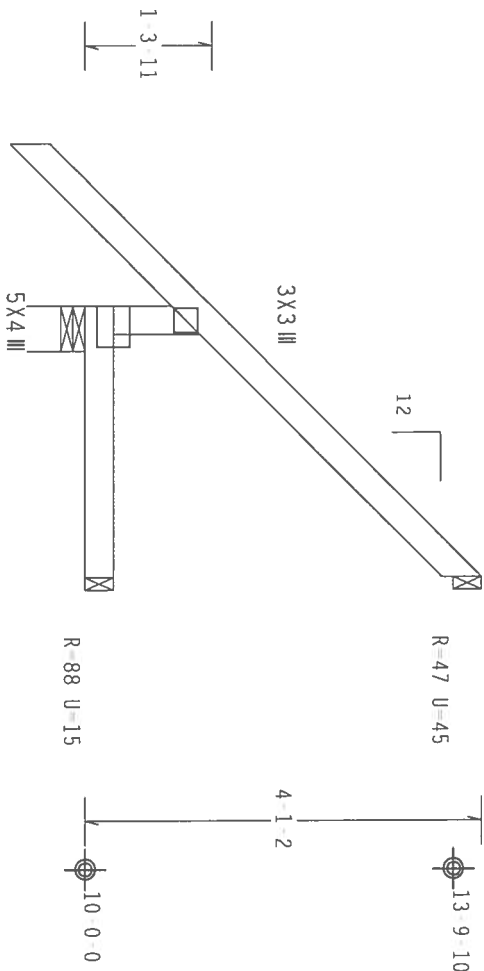
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #2 Dense

Wind reactions based on MWFRS pressures.

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

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

Bottom chord checked for 20.00 psf non concurrent live load.



1-8-0
2 9 7 Over 3 Supports
R=283 W=5.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.36.0424.10

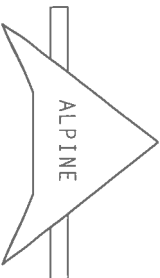
QTY:2 FL/-/4/-/R/-

Scale =.5"/ft.

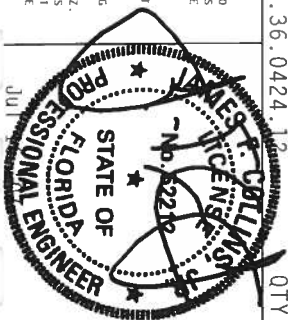
FABRICATING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. WITH TO BESET, CONSULTING COMPONENT SAFETY INFORMATION. PROVIDED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WICK (WOOD TRUSS CONSULT OF AMERICA, 6200 ENTERPRISE 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 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 AIA/A) AND TPI. ITW BCG CONNECTION PLATES ARE MADE OF 20/18/16GA (W/1/55/2) ASH 6053 GRADE, 40/60 (W/ 2/1/55) GALV. STEEL. APPLY ANY INDICATION OF PLATES FOLLOWED BY (1) SHALL BE PERMITTED AS OF TPI 11-2002 SECS. FOR THE DESIGN OF THIS TRUSS. THE DESIGNER SHALL BE RESPONSIBLE FOR 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
Tel: 888-444-4444



TC LL	20.0 PSF	REF R8228- 81228
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07197070
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 1960
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 11938228201

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x6	SP	#2	
	webs	2x4	SP	#3	

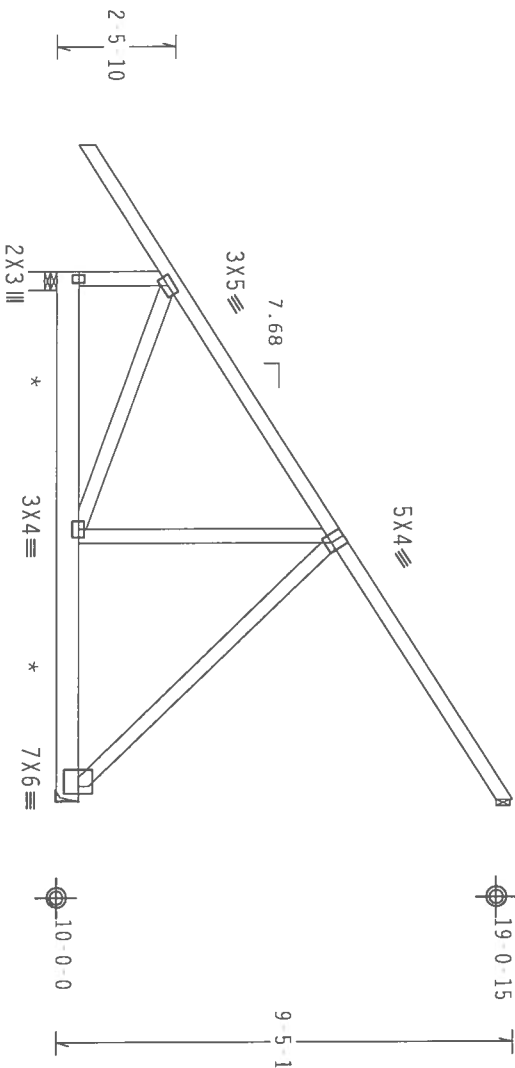
110 mph wind, 15.11 ft mean hgt., ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ $G_{CPI}(+/-)=0.18$

Wind reactions based on MAFRS pressures.

Bottom chord checked for 20.00 psf non-concurrent live load.

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

* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO
DETERMINE IF THIS IS ACCEPTABLE.*



R=197 U=61

SPECIAL LOADS		(LUMBER DUR.FAC.=1.25 / PLATE DUR.FAC.=1.25)	
TC	From 64 PLF at 2.60 to 64 PLF at 10.86		
BC	From 5 PLF at 2.60 to 5 PLF at 0.00		
BC	From 20 PLF at 0.00 to 20 PLF at 10.86		
TC	42 LB Conc. Load at 1.51		
TC	100 LB Conc. Load at 4.63		
TC	183 LB Conc. Load at 7.76		
BC	52 LB Conc. Load at 1.51		
BC	55 LB Conc. Load at 3.08		
BC	115 LB Conc. Load at 4.63		
BC	107 LB Conc. Load at 5.68		
BC	189 LB Conc. Load at 7.76		
BC	159 LB Conc. Load at 8.29		

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424.13m

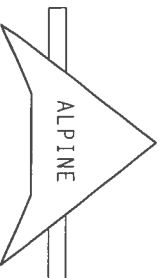
QTY:1

FL/-/4/-/-/R/-

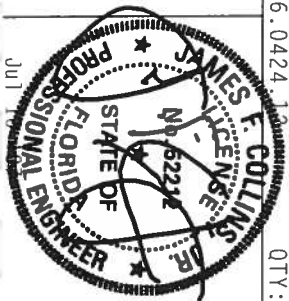
Scale = .25"/Ft.

10-10-5 Over 3 Supports $R=1020$ U-391 W-4.567" $R=788$ U-222

R=788 U=222



ITW Building Components Group, Inc.
Haines City, FL 33844
Certificate of Authorization # 667



TC LL	20.0 PSF	REF	R8228- 81229
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197071
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	1801
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228201

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

Wind reactions based on MMFRS pressures.

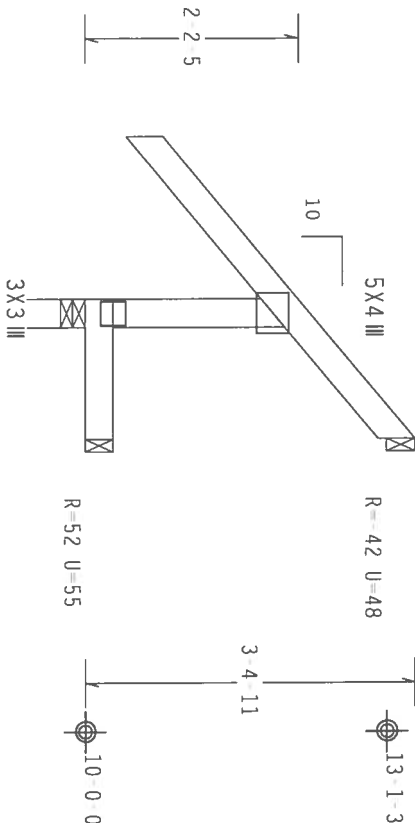
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

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

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. $I_w=1.00$ GCPI(+/-)-0.18

Calculated horizontal deflection is 0.24" due to live load and 0.11" due to dead load.

Bottom chord checked for 20.00 psf non concurrent live load.



1-8-0
1-5-4 Over 3 Supports
R=249 U=20 W=3.5"

PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.36.0424

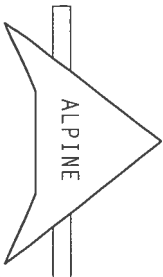
QTY:1

FL/-/4/-/R/-

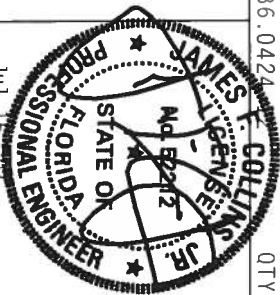
Scale=.5"/Ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA. 22314) AND WICK (WOOD TRUSS COUNCIL OF AMERICA, 6300 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 A PROPERLY ATTACHED RIGID CEILING.

****IMPORTANT**** TURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. TPI 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, BY APPROX AND TPI DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AOS (QUALITY ASSURANCE SPEC. BY APPROX AND TPI) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER POSITIONING OF TRUSSES AND THE PROPER POSITIONING OF TRUSSES PER DRAWINGS. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SIGNED FOR THE TRUSS COMPONENT BUILDING DESIGNER PER ANSI/TPI 1 SEC. 2.



TW Building Components Group, Inc.
Haines City, FL 33844
Tel: 888-244-ALPINE
Fax: 888-244-ALPINE



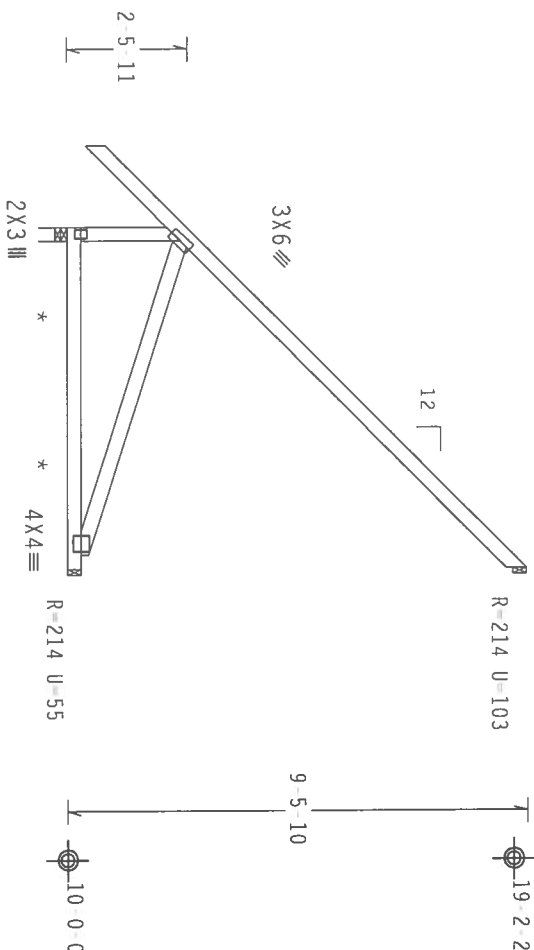
TC LL	20.0 PSF	REF	R8228- 81230
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197072
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEON	1772
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T938228201

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webbs	2x4	SP	#3	

Left end vertical exposed to wind pressure. Deflection meets $L/240$ criteria for brittle and flexible wall coverings.

* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO
DETERMINE IF THIS IS ACCEPTABLE. *

110 mph wind, 15.14 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. 1w=1.00 Gcpi(+/-)0.18


$$\sqrt{1.80}$$

7 0 0 Over 3 Supports
R=447 W=3.5"

PLT TYP. Wave

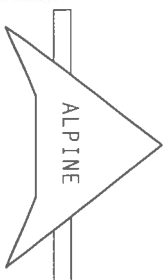
Design Crit: $TPI-2002(STD)/FBC$
 $Cq/RT=1.00(1.25)$

$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424

QTY: 3 FL / - / 4 / - / - / R / -

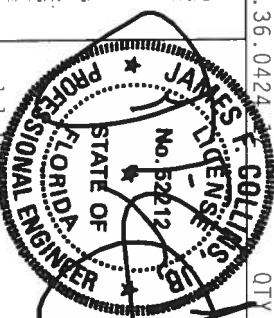
Scale = .25"/Ft.

[illegible]

****IMPORTANT*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR, ITW BCG, INC. SMALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN: ANY FAILURE TO BUILD THE TUBS IN CONFORMANCE WITH THE DESIGN, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TUBSSES. ITW BCGS SHALL BE RESPONSIBLE FOR DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF NDS (NATIONAL DESIGN SPEC, BY AIAA) AND TPI.

PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWINGS 160A & 160B. A SEAL ON THIS PLATE SHALL BE PER ANNEX A3 OF TP11 2002 SEC.3. ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER ANNEX A3 OF TP11 2002 SEC.3. DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SET FOR THE TRUSS COMPONENTS OF THE DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE DESIGNER.

BUILDING DESIGNER PTR ANSI/IFP 1 SEC. 2



Scale = .25"/ft.		FL/-4/-/R/-	
REF	R8228- 81232	TC LL	20.0 PSF
DATE	07/16/07	TC DL	10.0 PSF
DRW	HCSUR8228 07197080	BC DL	10.0 PSF
HC-ENG	JB/WHK	BC LL	0.0 PSF
SEON-	1751	TOT.LD.	40.0 PSF
		DUR.FAC.	1.25
JREF -	1T938228Z01	SPACING	24.0"

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.

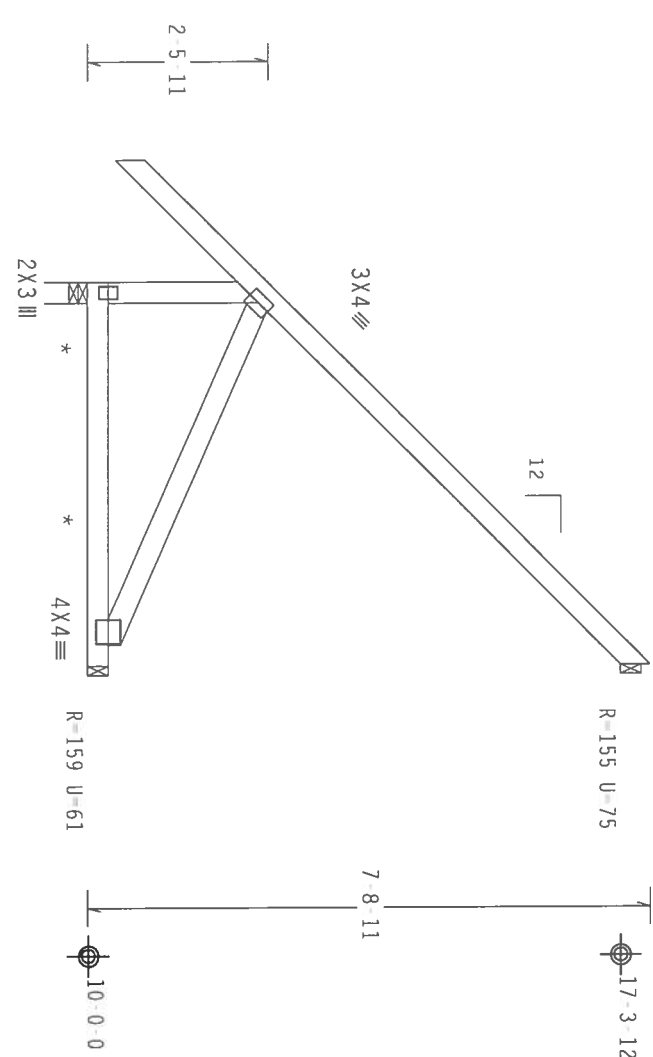
Left end vertical exposed to wind pressure. Deflection meets L/240 criteria for brittle and flexible wall coverings.

* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO
DETERMINE IF THIS IS ACCEPTABLE.*

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

Bottom chord checked for 20.00 psf non-concurrent live load.

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



← 1-8-0 →
← 5-3-0 Over 3 Supports →
R=375 W=3.5"

PLT TYP. Wave
Design Crit: TPI-2002(STD) /FBC
Cq/RT=1.00(1.25)/10(0)

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSP (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 ENTERPRISE LANE, HADISON, NJ 07719) 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. THE 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.

THIS TRUSS IS DESIGNED FOR A DESIGN WIND SPEED OF 110 MPH (157 MPH WIND LOAD) IN ACCORDANCE WITH THE 2002 INTERNATIONAL BUILDING CODE (IBC) AND THE 2002 ASCE 7-02. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE USER. THE TRUSS IS DESIGNED FOR A DESIGN WIND SPEED OF 110 MPH (157 MPH WIND LOAD) IN ACCORDANCE WITH THE 2002 INTERNATIONAL BUILDING CODE (IBC) AND THE 2002 ASCE 7-02. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE USER. THE TRUSS IS DESIGNED FOR A DESIGN WIND SPEED OF 110 MPH (157 MPH WIND LOAD) IN ACCORDANCE WITH THE 2002 INTERNATIONAL BUILDING CODE (IBC) AND THE 2002 ASCE 7-02. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE USER.

ALPINE

TW Building Components Group, Inc.
Haines City, FL 33844
www.alpinebuilding.com



QTY: 1		FL/-/4/-/-/R/-		Scale = .375"/ft.	
TC LL	20.0 PSF	REF	R8228- 81235		
TC DL	10.0 PSF	DATE	07/16/07		
BC DL	10.0 PSF	DRW	HCUSR8228 07197084		
BC LL	0.0 PSF	HC-ENG	JB/WHK		
TOT.LD.	40.0 PSF	SEON-	1756		
DUR.FAC.	1.25				
SPACING	24.0"	JREF	1T938228Z01		

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

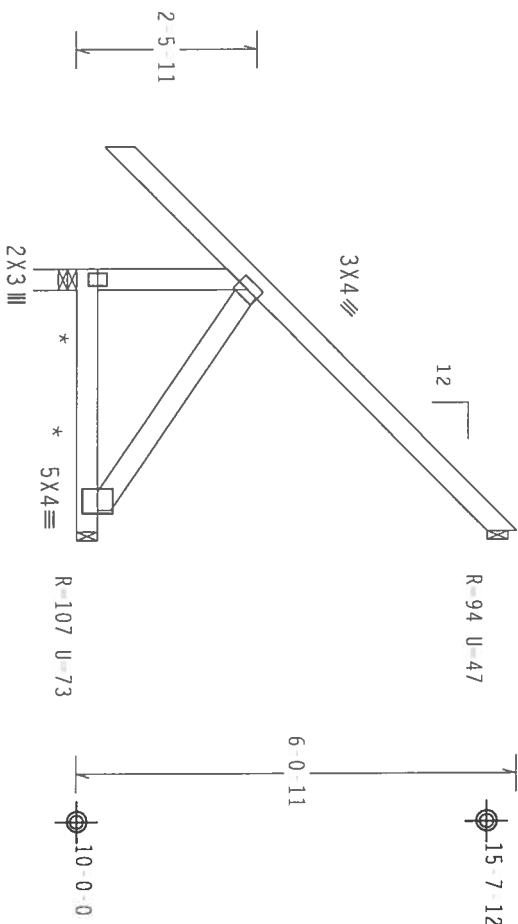
Left end vertical exposed to wind pressure. Deflection meets $L/240$ criteria for brittle and flexible wall coverings.

* WIND ON TRUSS RUN AS CLOSED IN INDICATED AREA
BUILDING DESIGNER OR ENGINEER OF RECORD TO
DETERMINE IF THIS IS ACCEPTABLE. *

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. $I_w=1.00$ GCPI(+/-)=0.18

Bottom chord checked for 20.00 psf non concurrent live load.

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



$\leq 1-8-0$
 $3-7-0$ Over 3 Supports
 $R=310 \quad W=3.5"$

PLT TYP. Wave

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

 $C_q/RT=1.00(1.25)/10(0)$

7.36.0424

QTY:1

FL/-/4/-/-/R/-/

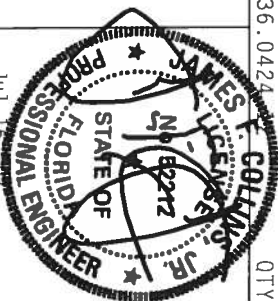
Scale = .375"/Ft.

WARNING: THESE BUILDING EXTRACT CASES IN FABRICATION, HANDING, SHIPPING, INSTALLING AND PRACTICE REFER TO DC51 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE TRUSS PRACTICE INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, HANSDEN, MI 48139) FOR SAFETY PRACTICES PRIOR TO PREPARING THESE PRODUCTS. UNDESIGNED OR UNTESTED INDICATED TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

ALPINE

ITW Building Components Group, Inc.

Haines City, FL 33844
 Certificate of Authorization # 667

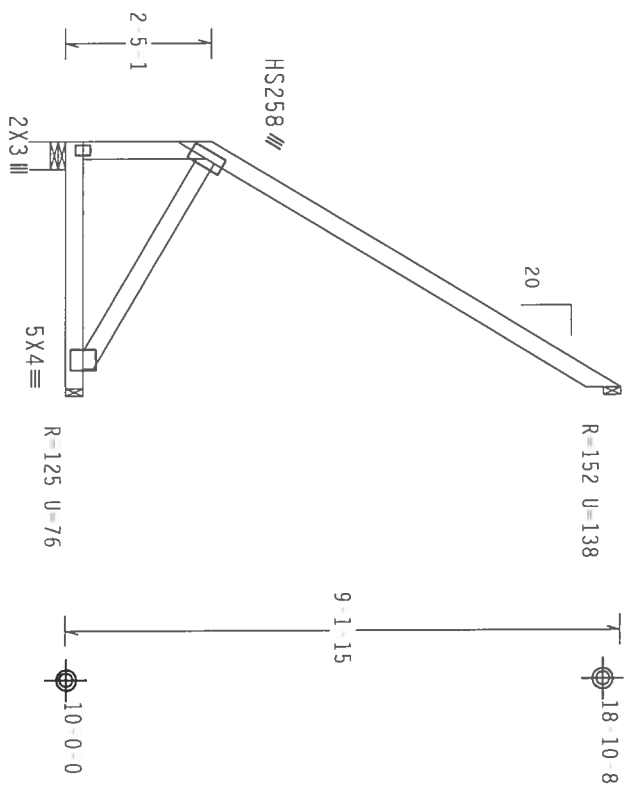


TC LL	20.0 PSF	REF	R8228- 81236
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197085
BC LL	0.0 PSF	HC-ENG	JB/WHK *
TOT.LD.	40.0 PSF	SEQN-	1763
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

(7 140B - Isaac Construction Jeremy Cady . ** J56)
Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

Wind reactions based on MMFRS pressures.
Left end vertical not exposed to wind pressure.

110 mph wind, 15.79 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. $I_w=1.00$ Gcpi (+/-)=0.18
Bottom chord checked for 20.00 psf non-concurrent live load.
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.



4.0 9 over 3 Supports
R=200 U=57 W=5.5"

PLT TYP. 20 Gauge HS,Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

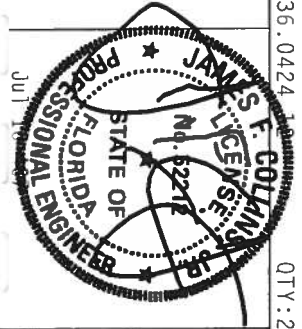
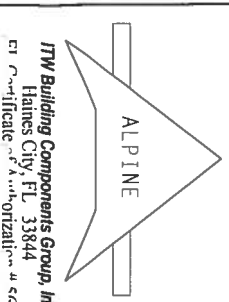
QTY:2 FL/-/4/-/R/-

Scale = .3125"/ft.

WARNING TRUSS'S REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 218 NORTH LEE 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 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. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE OF TRUSSES IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING A BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF AIA (INTERNATIONAL ASSOCIATION OF ARCHITECTS), AIAA (AMERICAN INSTITUTE OF ARCHITECTS), ASHRAE (AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS), AND/OR LOCAL, STATE, AND FEDERAL BUILDING CODES. THIS DESIGN IS BASED ON THE ASSUMPTIONS AND LOADS SHOWN. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE USER. THIS DESIGN IS THE PROPERTY OF THE BCG, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM THE BCG, INC. A SEAL ON THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOCIETY FOR THE TRUSS COMPONENT DESIGN SHOWS 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	REF	R8228- 81237
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197101
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT. LD.	40.0 PSF	SEON-	1610
DUR. FAC.	1.25		
SPACING	24.0"	JREF-	1T938228201

Top chord 2x8 SP #2
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3

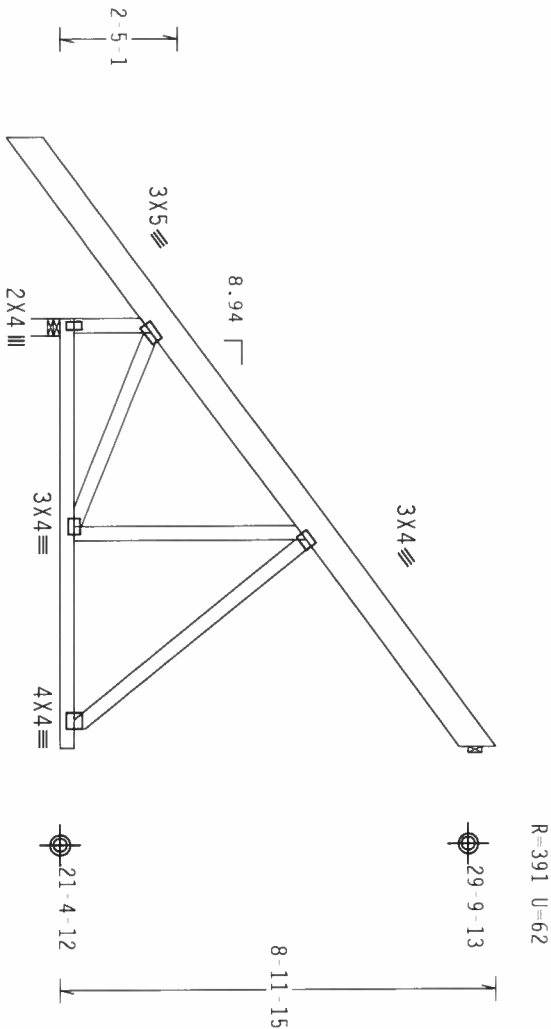
Wind reactions based on MWFRS pressures.

Left end vertical not exposed to wind pressure.

110 mph wind, 25.71 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

Hipjack supports 6-2-13 setback jacks with no webs.

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



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC
Cq/RT=1.00(1.25)/10(0)

7.36.0424

QTY:1 FL/-/4/-/1-/R/-

Scale = .25"/Ft.

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCSE (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 CHERRYBARK 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.

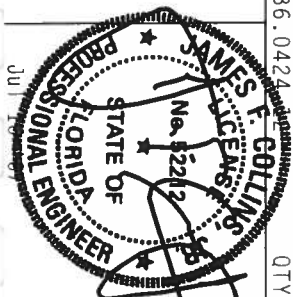
IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY ELEVATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH TPI, OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES, BY AREA AND TPI.

DESIGN CONDITIONS WITH APPLICABLE PROVISIONS OF AISC (A13.1) DESIGN SPEC. FOR STEEL, 11th EDITION, 1989, AND AISC (A13.1) DESIGN SPEC. FOR STEEL, 11th EDITION, 1989, SHALL BE USED.

ANY INSPECTION OF PLATES FOLLOWED BY (1) SHALL BE PER AMERICAN INSTITUTE OF STEEL CONSTRUCTION, INC. (AISC) DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. A SEAL ON THIS DRAWING INDICATES THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AISC/TPI 1 SEC. 2.

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
C1 Certificate of Approval # 567

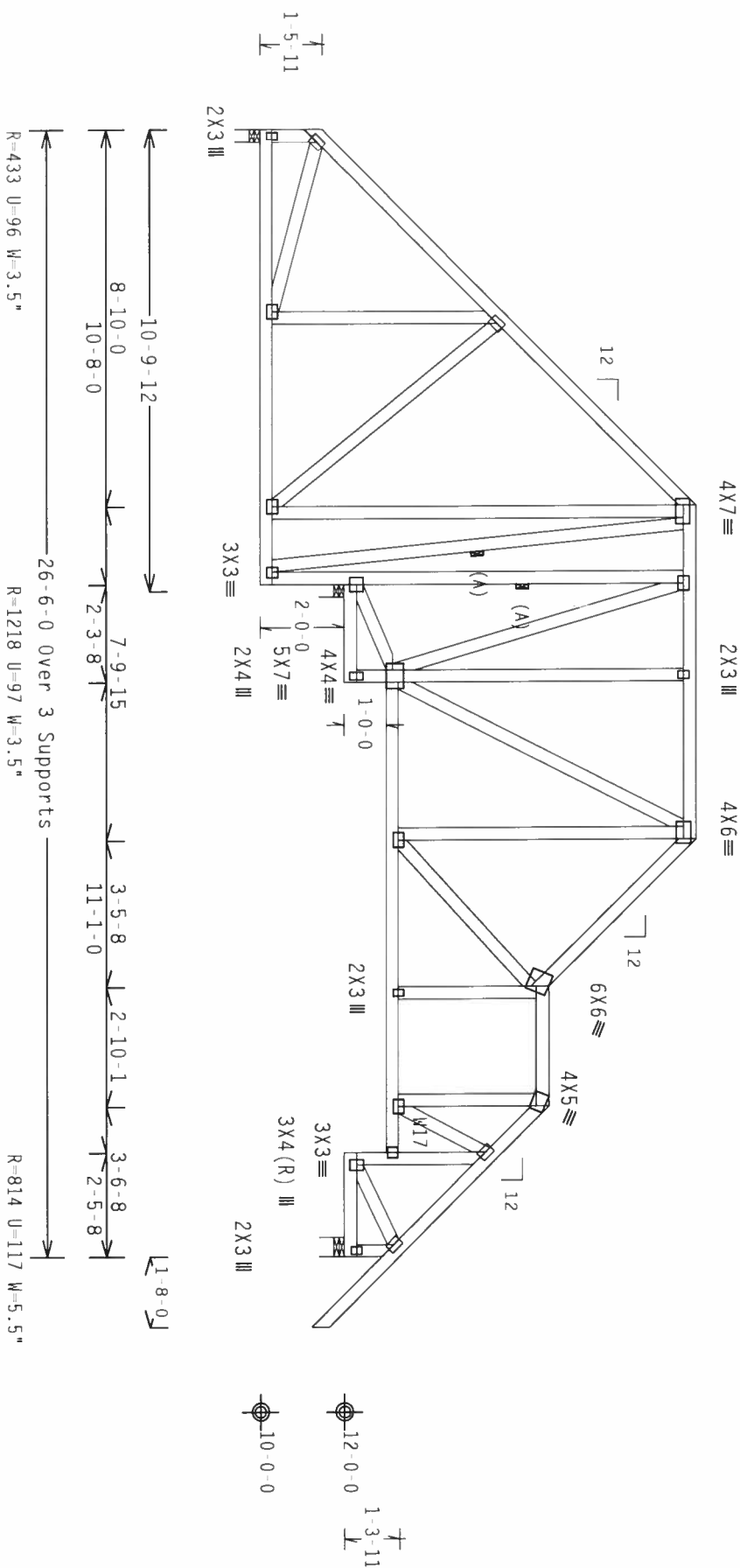


TC LL	20.0 PSF	REF	R8228- 81238
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197108
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2636
DUR.FAC.	1.25		
SPACING	24.0"	JREF	1T938228Z01

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webs	2x4	SP	#3	:W17 2x4 SP #2 Dense:

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

110 mph wind, 15.89 ft mean hgt, ASCE 7-02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT 11, EXP B, wind TC DL=5.0 psf, wind BC DL=5.0 psf. $I_w=1.00$ Gcpi (+/-)=0.18



PLT TYP. Wave

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

QTY:1 FL/-/4/-/-/R/-

Scale = .25"/Ft.

-WARNING- FRAMES (BUILDING EXTERIOR CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO GC5) (BUILDING COMPONENT SAFETY INFORMATION). PUBLISHED BY FPI (FRASS PAPER INSTITUTE, 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314) AND MICA (WOOD TRUSS COUNCIL OF AMERICA, 6300 UNIVERSITY LANE, MADISON, WI, 53719) FOR DESIGN PRACTICES PERTAINING TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED CHORD CEILING.

****IMPORTANT*** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ITH BCG, INC. SHALL NOT

TP1: OR FABRICATING, HANDLING, SHIPPING, INSTALLING & BRACING OF TRUSSES.

CONNECTION PLATES ARE MADE OF 20/18/Ti6Al (H, H/55/K) ASIM AB53 GRADE 40/60 (H, K/H.55) GALV., STEEL. APPLY PLATES TO EACH FACE OF JOINTS AND WELDED JOINTS LOCATED ON TUBE DESIGN. POSITIONING AND DRAWING: 1604 2

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

BUILDING DESIGNER PER ANSI/FP1 1 SEC. 2.

1. **Introduction**

ALPINE

ITW Building Components Group, Inc.
Haines City, FL 33844
For a complete list of authorized distributors, call 1-800-368-7272.



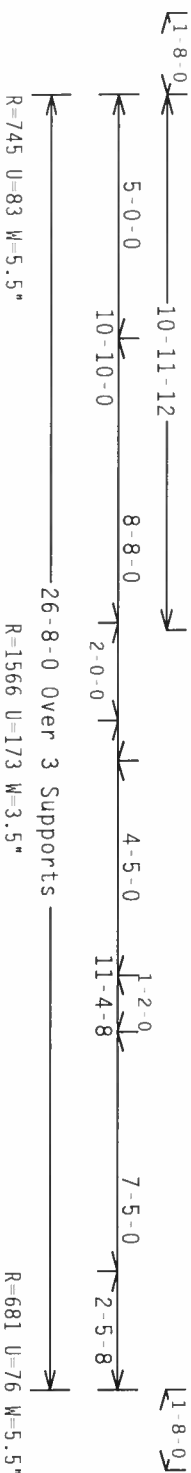
TC LL	20.0 PSF	REF	R8228- 81239
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197052
BC LL	0.0 PSF	HC-ENG	JB/WHK
TOT.LD.	40.0 PSF	SEQN-	2008
DUR.FAC.	1.25		
SPACING	24.0"	JREF -	1T938228Z01

110 mph wind, 15.18 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. $I_w=1.00$ GCPI (+/-)=0.18

Wind reactions based on MAFRS pressures.

In lieu of structural panels use purtins 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.



Design Crit: TPI-2002(STD)/FBC

 $Cq/RT=1.00(1.25)/10(0)$

Scale = .25"/Ft.

REF	R8228 - 81240
DATE	07/16/07

STATE OF

PROFESSIONAL ENGINEER
JUL 16 1987

JREF- 1T938228Z01

Top chord 2x4 SP #2 Dense
Bot chord 2x4 SP #2 Dense
Webs 2x4 SP #3 :W13 2x4 SP #2 Dense:

90 mph wind, 15.89 ft mean hgt, ASCE 7-02, CLOSED bldg, located anywhere in roof, CAT II, EXP C, Wind TC DL=5.0 psf, Wind BC DL=5.0 psf, IW=1.00 GCPI(+/-)=0.18

Wind reactions based on MMFRS pressures.

Calculated horizontal deflection is 0.12" due to live load and 0.23" due to dead load.

(A) 1x4 #3 or better "T" brace, 80% length of web member. Attach with 8d Box or Gun (0.113"x2.5", min.) nails @ 6" OC.

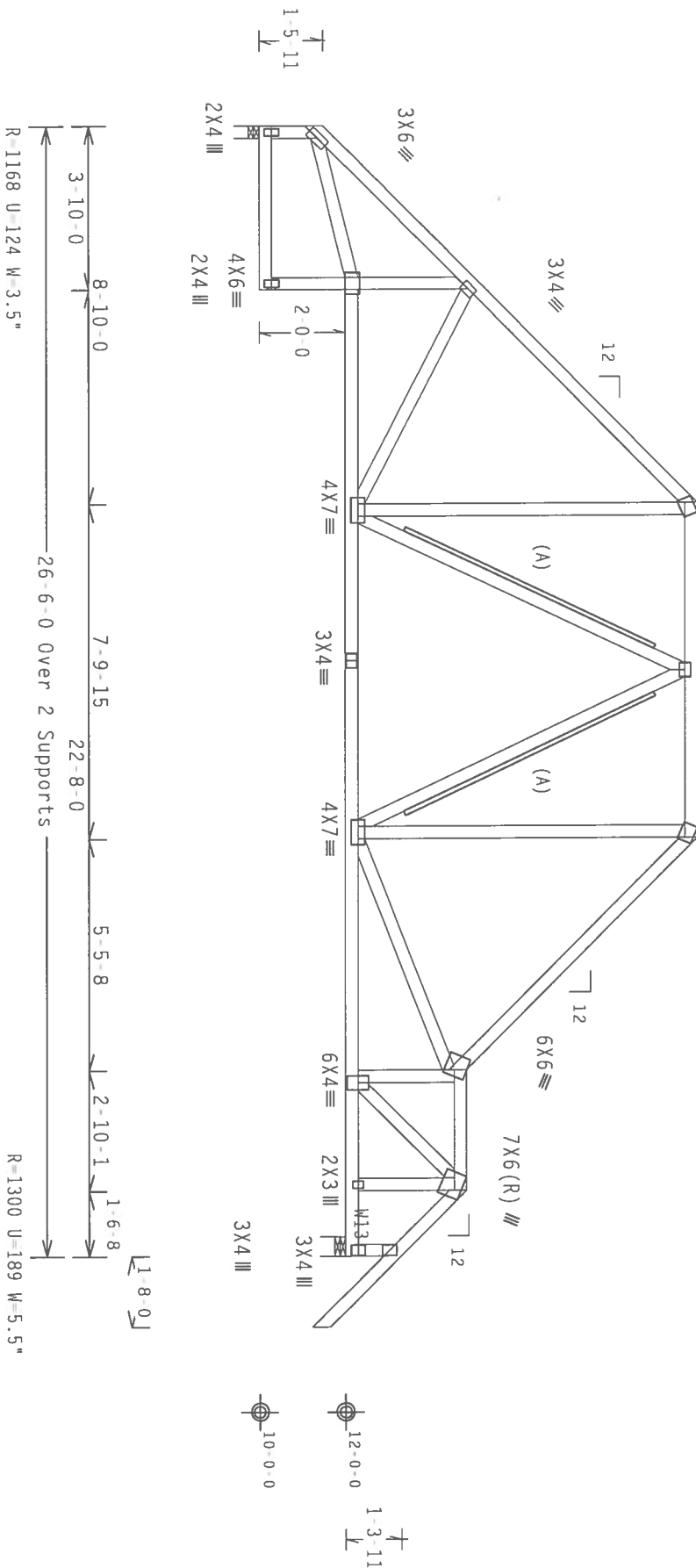
Deflection meets L/240 live and L/180 total load. Creep increase factor for dead load is 1.50.

SPECIAL LOADS

LUMBER	
TC - From	DUR. FAC. = 1.15 / PLATE DUR. FAC. = 1.15
68 PLF at 0.00 to	68 PLF at 8.83
TC - From	68 PLF at 8.83 to
68 PLF at 16.66 to	68 PLF at 22.12
TC - From	68 PLF at 22.12 to
68 PLF at 24.96 to	68 PLF at 28.17
TC - From	68 PLF at 28.17 to
20 PLF at 0.00 to	20 PLF at 3.83
BC - From	20 PLF at 3.83 to
6 PLF at 26.50 to	6 PLF at 28.17
PLT - 50 LB Conc. Load at (24.96, 14.81)	
PLB - 53 LB Conc. Load at (24.90, 12.04)	

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

Bottom chord checked for 20.00 psf non-concurrent live load.



PLT TYP. Wave

Design Crit: TPI-2002(STD)/FBC

Cq/RT=1.00(1.25)/10(0)

7.36.0424.12

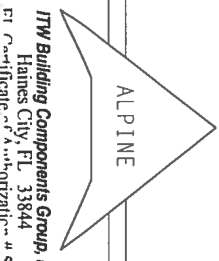
QTY:1

FL/-/4/-/R/-

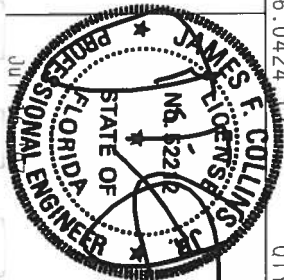
Scale = .25"/ft.

****WARNING**** TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO DCSI (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE, 210 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314) AND WCA (WOOD TRUSS COUNCIL OF AMERICA, 6300 CHERRYBARK 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.

****IMPORTANT**** FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. THE BCG, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE TPI OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES, BY ACPA AND TPI. DISTRICTS WITH APPLICABLE PROVISIONS OF 2003 QUALITY DESIGN SPEC. BY ACPA AND TPI. STEEL, WOOD, AND PLATES TO EACH FACE OF TRUSS AND UNLESS OTHERWISE LOCATED ON THIS DESIGN, POSITION PER DRAWING 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
P.O. Box 1000
Haines City, FL 33844



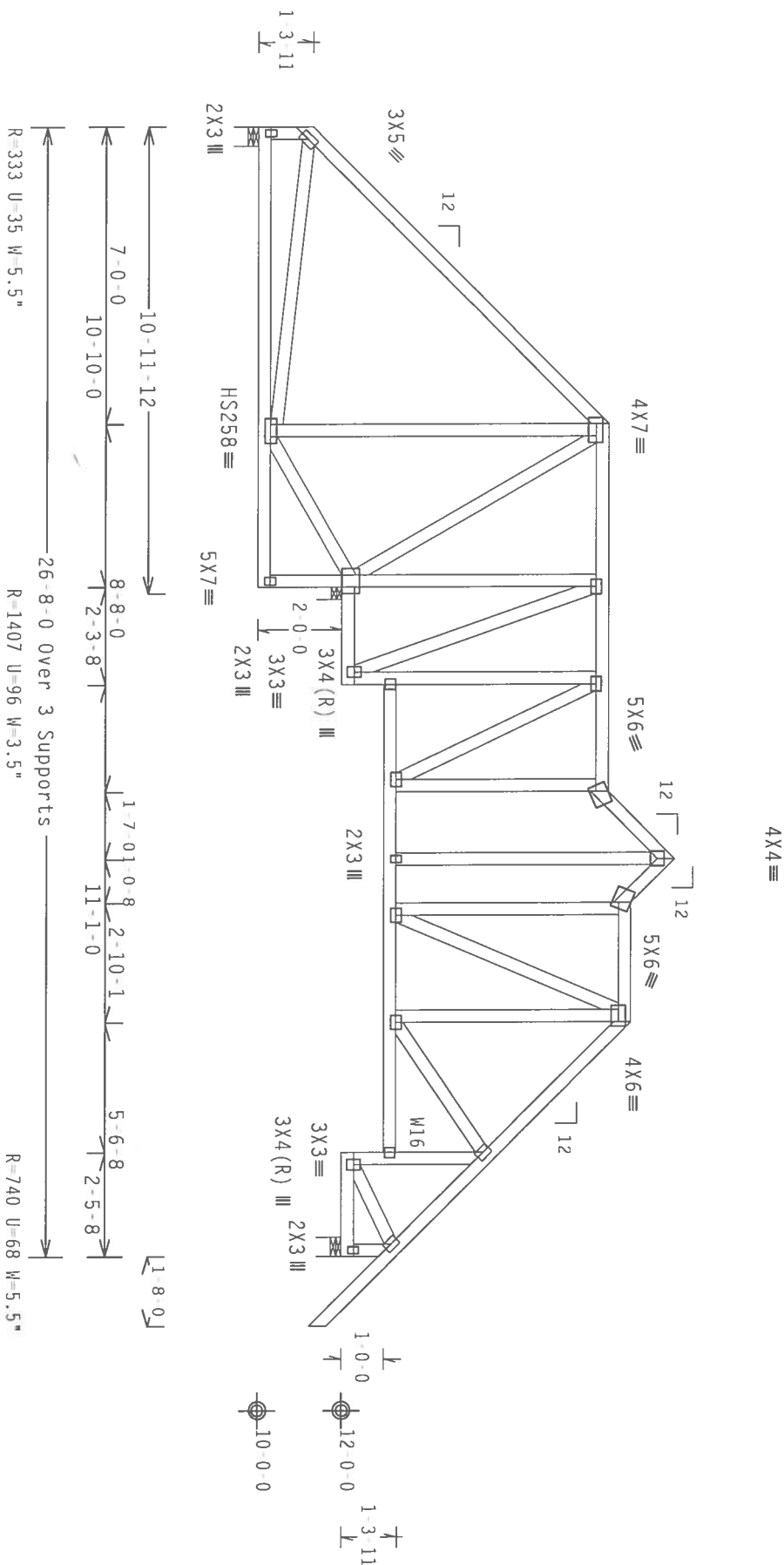
TC LL	20.0 PSF	REF R8228- 81241
TC DL	10.0 PSF	DATE 07/16/07
BC DL	10.0 PSF	DRW HCUSR8228 07197061
BC LL	0.0 PSF	HC-ENG JB/WHK
TOT.LD.	40.0 PSF	SEON- 2091
DUR.FAC.	1.25	
SPACING	24.0"	JREF- 1T938228Z01

Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	Wbs	2x4	SP	#3	:W16

Bottom chord checked for 20.00 psf non concurrent live load.

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.



PLT TYP. 20 Gauge HS, wave

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

$$/10(0)$$

7.36.0424

QTY:1

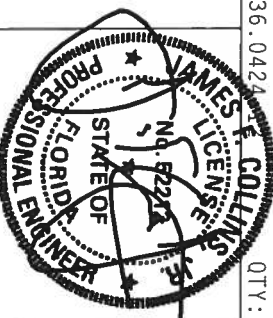
FL/-/4/-/-/R/-

Scale = .25"/Ft.

WARNING: THESE PRODUCTS REQUIRE CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO GC51 (BUILDING COMPONENTS INFORMATION), PUBLISHED BY THE STEEL INSTITUTE, 210 WEST WASHINGTON STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND AISC 3600 TRUSS COMMITTEE OF AMERICA, 500 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22319 FOR SAFETY PRACTICES PERTAINING TO THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED RIGID CEILING.

TC LL	20.0 PSF	REF	R8228 - 81242
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCUSR8228 07197067
BC LL	0.0 PSF	HC-ENG	JB/WHK

ITW Building Components Group, Inc.
Haines City, FL 33844
Telephone 800-451-0741



Jul 16 07

DUR.FAC.	1.25	
SPACING	24.0"	JREF - 1T938228Z01

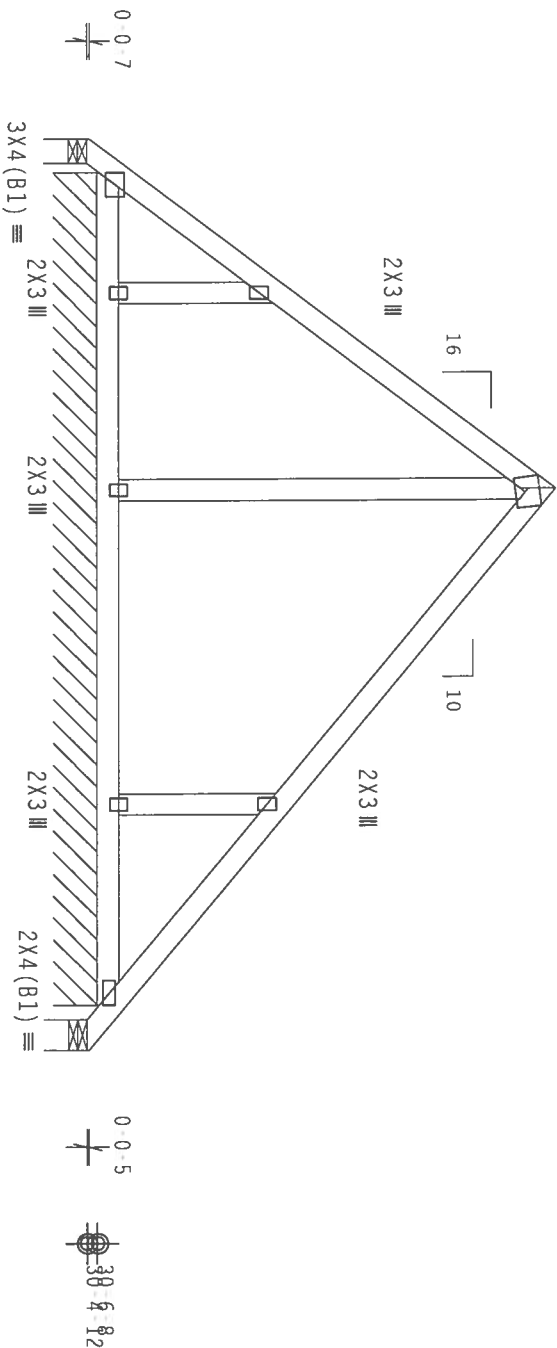
Top	chord	2x4	SP	#2	Dense
Bot	chord	2x4	SP	#2	Dense
	webs	2x4	SP	#3	

110 mph wind, 33.63 ft mean hgt, ASCE 7 02, CLOSED bldg, not located within 4.50 ft from roof edge, CAT II, EXP B, wind TC DLE=5.0 psf, wind BC DLE=2.0 psf Iw=1.00 gcpi(+/-) 0.18

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

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

Refer to DWG PIGBACKB0207 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.

 $4 \times 5 =$ 

5-8-7

4-4-1

7-0-13

12-5-15 Over 3 Supports

R 8 U 250 W 4.063"

R 76 PLF U 37 PLF W 11 4 14

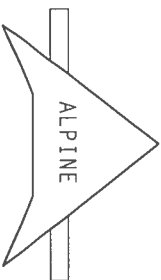
R 18 U 3 W 5.077"

PLT TYP. Wave

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

QTY:4 FL/-/4/-/-/R/-/-

Scale = .375"/Ft.

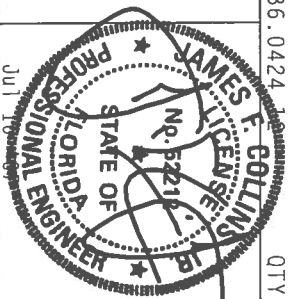


ITW Building Components Group, Inc.
Haines City, FL 33844
ET Certificate of Authorization # 567

WARNING TRUSSES BEING EXTRACT CASE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING REFER TO DESIG. (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY IPI (TRUSS PLATE INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA, 22314 AND NICK (WOOD TRUSS COUNCIL OF AMERICA, 65000 ENTERPRISE LANE, MADISON, WI, 53719) FOR SAFETY PRACTICES PRIOR TO TRUSSING HOUSE FUNCTIONS. UNDESIGNED INDICATED FOR 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, IIR GCS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THE: OR FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING OF TRUSSES.

DESIGN CONFORMS WITH APPLICABLE PROVISIONS OF 905 (ASTM A563 GRADE 40/60 (W 4X1.55) GALV. STEEL, APPLICATION CONSTRUCTION PLATES ARE MADE OF 2018/19/66A (W 4X55/2) ASTM A563 GRADE 40/60 (W 4X1.55) 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 AMERICA AS OF 1/11/2002 SEC.3. A SEAL ON THIS DESIGNED INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY. SOLICIT FOR THE TRUSS COMPONENTS OF THE DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER AM31/PPL 1 SEC. 2.



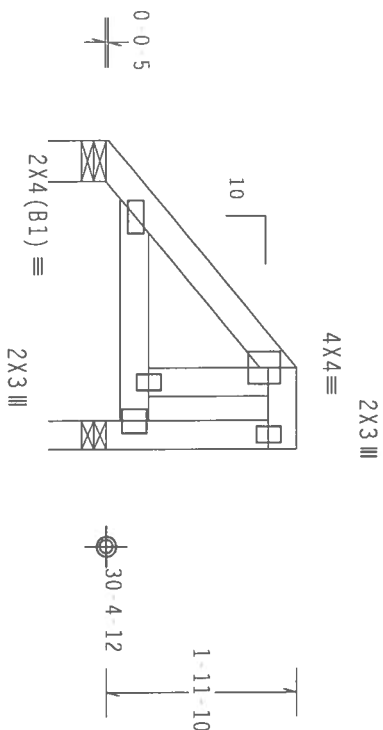
TC LL	20.0 PSF	REF	R8228- 81243
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSR8228 07197003
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEQN-	1310
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

Top chord	2x4	SP	#2	Dense
Bot chord	2x4	SP	#2	Dense
Webs	2x4	SP	#3	

110 mph wind, 31.39 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=2.0 psf. $I_w=1.00$ GCp1(+)=0.18

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

Refer to DWG PIGBACKB027 for piggyback details.
PORTION OF TRUSS UNDER PIGGYBACK IS TO BE
BRACED @ 24" OC, UNLESS OTHERWISE SPECIFIED.


$$\begin{array}{c} 3 \times 3 \equiv \\ \overbrace{\quad 1-8-8 \quad}^{0-10-0} \\ \hline \leq 3-2-0 \text{ over } 2 \text{ Supports} \geq \\ \hline R-123 \text{ U}=30 \text{ W}=5.077'' \\ R-99 \text{ U}=67 \text{ W}=3.5'' \end{array}$$

PLT TYP. Wave

Design Crit: $TPI-2002(STD)/FBC$
$$Cq/RT=1.00(1.25)/10(0)$$

7.36.0424 13

QTY:1

FL/14/1/R/

Scale = .5" / ft.

WARNING ALL FRAMES, BUILDING EXHIBIT, CASE IN FABRICATION, SHIPPING, INSTALLING AND BRACKETING TO NEXT (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY THE (FRANCE PAPER INSTITUTE), 218 NORTH LEE STREET, SUITE 312, ALEXANDRIA, VA 22314 AND THE (GOOD TRUSS COMPANY) OF AMERICA, 6500 UNIVERSITY LANE, MANASSAS, VA 20108 FOR SAFETY PRACTICES (GOOD TO PREVENTION THESE CONDITIONS, UNLESS OTHERWISE INDICATED) FOR GROUND SHALL HAVE PROPERLY ATTACHED STRUCTURAL PANELS AND BOTTOM CHORD SHALL HAVE PROPERLY ATTACHED FIELD CEILING.

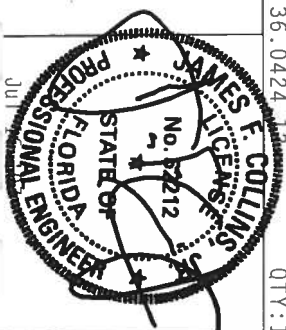
SPECIAL LOADS		
(LUMBER D.U.R.F.A.C. = 1.25 / PLATE D.U.R.F.A.C. = 1.25)		
TC	From	66 PLF at 0.62 to 66 PLF at 1.71
TC	From	66 PLF at 1.71 to 66 PLF at 2.54
BC	From	4 PLF at 0.62 to 4 PLF at 2.54

Wind reactions based on MMFRS pressures.

Wind reactions based on MWFRS pressures.

Bottom chord checked for 20.00 psf non concurrent live load.

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



TC LL	20.0 PSF	REF	R8228- 81244
TC DL	10.0 PSF	DATE	07/16/07
BC DL	10.0 PSF	DRW	HCSUR8228 07197004
BC LL	0.0 PSF	HC-ENG	TCE/WHK
TOT.LD.	40.0 PSF	SEON-	2296
DUR.FAC.	1.25		
SPACING	24.0"	JREF-	1T938228Z01

ITW Building Components Group, Inc.
Haines City, FL 33844
Tel. 800/444-4444