

2704 SW CALIFORNIA ST. DFS-01 RS06-165539

RS.06.165539 DFS.01.

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MICROFILMED

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Alpine Engineered Products, Inc.

8351 Ravenna Circle Sacramento, CA 95828 (916) 387-0116
Page 1 of 1 Document ID: T15717520524100148

Truss Fabricator: Truss Components of Oregon
Job Identification: 1006017-Job: 1006017 / COFIELD GARAGE -- VERIFY VERIFY, OR
Model Code: IEC
Truss Criteria: ANSI/TPI-2002(STD)/IBC
Engineering Software: Alpine proprietary truss analysis software. Version 7.25.
Truss Design Loads: Roof - 45 PSF @ 1.15 Duration
Floor - N/A
Wind - 110 MPH (ASCE 7-02-Closed)

Notes:

1. Determination as to the suitability of these truss components for the structure is the responsibility of the building designer/engineer of record, as defined in ANSI/TPI 1.
2. As shown on attached drawings; the drawing number is preceded by: CAUSR7175

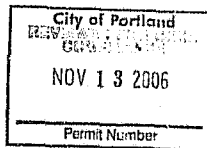
Details: GBLLETIN-

Submitted by TSD 10:01:41 10-24-2006 Reviewer: TSB
\$ \$

#	Ref	Description	Drawing#	Date
1	49861--AGE		06276199	10/03/06
2	49862--A		06276200	10/03/06
3	49863--AGE		06276201	10/03/06

Seal Date: 10/24/2006

Gerald W. Heal
Oregon 19575 PE



165539.DFS01 RS
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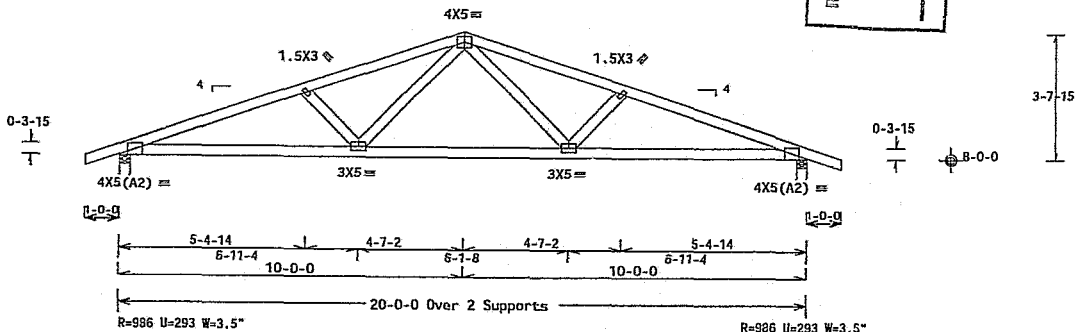
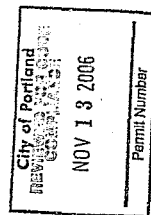
Top chord 2x4 DF-L #1&Bet. (g)
Bot chord 2x4 DF-L #1&Bet. (g)
Webs 2x4 HF Scd/Scud

110 mph wind, 15.00 ft mean hgt, ASCE 7-02, CLOSED bldg, Located anywhere in roof, CAT II, EXP D, wind TC DL=6.0 psf, wind BC DL=6.0 psf.

Connectors in green lumber (g) designed using NDS/TPI reduction factors.

Truss design per IBC sect. 2308.1, 10.00 psf non-concurrent bottom chord live load applied per ANSI/TPI 1.

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



PLT TYP. Wave

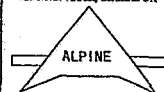
Design Crit: TPI-2002(STD)/IBC

Cq/RI=1.00(1.25)/10(0) 7.25.0411.16

QTY:1 OR/-1/1/-/R/-

Scale = .3125"/Ft.

Truss Components of Oregon (503)157-825 North 4 Street, Cornelius OR



Alpine Engineering Products, Inc.
SACRAMENTO, CA 95828

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATION, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO BCAT 1.03 (BUILDING COMPONENT SAFETY INFORMATION), PUBLISHED BY TPI (TRUSS PLATE INSTITUTE), 315 N. DOWD ST., SUITE 200, MADISON, WI 53703 AND REFER TO THE TRUSS MANUFACTURER'S INSTRUCTIONS FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH A COPY OF THIS DESIGN TO THE INSTALLATION CONTRACTOR. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. ANY FAILURE TO BUILD THE TRUSS IN CONFORMANCE WITH THIS DESIGN OR FABRICATION, HANDLING, SHIPPING, INSTALLING & BRACING BY THE INSTALLER CONFORMS WITH APPLICABLE PROVISIONS OF THE INTERNATIONAL BUILDING CODES (IF APPLICABLE) AND TPI. ALPINE ENGINEERED PRODUCTS, INC. SHALL NOT BE RESPONSIBLE FOR ANY DEVIATION FROM THIS DESIGN. UNLESS OTHERWISE INDICATED, TOP CHORD SHALL HAVE PROPERLY ATTACHED STRUCTURAL PLATES AND BOTTOM CHORD SHALL HAVE A PROPERLY ATTACHED RIGID CEILING. ACCEPTANCE OF PROFESSIONAL ENGINEERING RESPONSIBILITY SOLELY FOR THE TRUSS COMPONENT DESIGN SHOWN. THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER PER ANSI/TPI 1, SEC. 2.



TC LL	25.0 PSF	REF R7175- 49662
TC DL	10.0 PSF	DATE 10/03/06
BC DL	10.0 PSF	DRW CAUSR7175 06276200
BC LL	0.0 PSF	CA-ENG TSB/GWH *
TOT.LD.	45.0 PSF	SEQN- 113488
DUR.FAC.	1.15	FROM BB
SPACING	24.0"	JREF- 1T157175Z05

```
====Bearings==== [X-Loc][React][Size] =====
[ 0.00][ 908][ 129m][0.29] [10.71][ 908][0.29]
```

Code	Meta	Language	AST	WFO	CSL	GUC	5	Length	Precision
1-1	24	---	---	---	---	---	4	9.4E-01	72.65
2-1	24	---	---	---	---	---	4	9.4E-01	72.65
3-1	24	---	---	---	---	---	4	9.4E-01	72.65
4-1	24	---	---	---	---	---	4	9.4E-01	72.65
5-1	24	---	---	---	---	---	4	9.4E-01	72.65
6-1	24	---	---	---	---	---	4	9.4E-01	72.65
7-1	24	---	---	---	---	---	4	9.4E-01	72.65
8-1	24	---	---	---	---	---	4	9.4E-01	72.65
9-1	24	---	---	---	---	---	4	9.4E-01	72.65
10-1	24	---	---	---	---	---	4	9.4E-01	72.65
11-1	24	---	---	---	---	---	4	9.4E-01	72.65
12-1	24	---	---	---	---	---	4	9.4E-01	72.65
13-1	24	---	---	---	---	---	4	9.4E-01	72.65
14-1	24	---	---	---	---	---	4	9.4E-01	72.65
15-1	24	---	---	---	---	---	4	9.4E-01	72.65
16-1	24	---	---	---	---	---	4	9.4E-01	72.65
17-1	24	---	---	---	---	---	4	9.4E-01	72.65
18-1	24	---	---	---	---	---	4	9.4E-01	72.65
19-1	24	---	---	---	---	---	4	9.4E-01	72.65
20-1	24	---	---	---	---	---	4	9.4E-01	72.65
21-1	24	---	---	---	---	---	4	9.4E-01	72.65
22-1	24	---	---	---	---	---	4	9.4E-01	72.65
23-1	24	---	---	---	---	---	4	9.4E-01	72.65
24-1	24	---	---	---	---	---	4	9.4E-01	72.65
25-1	24	---	---	---	---	---	4	9.4E-01	72.65
26-1	24	---	---	---	---	---	4	9.4E-01	72.65
27-1	24	---	---	---	---	---	4	9.4E-01	72.65
28-1	24	---	---	---	---	---	4	9.4E-01	72.65
29-1	24	---	---	---	---	---	4	9.4E-01	72.65
30-1	24	---	---	---	---	---	4	9.4E-01	72.65
31-1	24	---	---	---	---	---	4	9.4E-01	72.65
32-1	24	---	---	---	---	---	4	9.4E-01	72.65
33-1	24	---	---	---	---	---	4	9.4E-01	72.65
34-1	24	---	---	---	---	---	4	9.4E-01	72.65
35-1	24	---	---	---	---	---	4	9.4E-01	72.65
36-1	24	---	---	---	---	---	4	9.4E-01	72.65
37-1	24	---	---	---	---	---	4	9.4E-01	72.65
38-1	24	---	---	---	---	---	4	9.4E-01	72.65
39-1	24	---	---	---	---	---	4	9.4E-01	72.65
40-1	24	---	---	---	---	---	4	9.4E-01	72.65
41-1	24	---	---	---	---	---	4	9.4E-01	72.65
42-1	24	---	---	---	---	---	4	9.4E-01	72.65
43-1	24	---	---	---	---	---	4	9.4E-01	72.65
44-1	24	---	---	---	---	---	4	9.4E-01	72.65
45-1	24	---	---	---	---	---	4	9.4E-01	72.65
46-1	24	---	---	---	---	---	4	9.4E-01	72.65
47-1	24	---	---	---	---	---	4	9.4E-01	72.65
48-1	24	---	---	---	---	---	4	9.4E-01	72.65
49-1	24	---	---	---	---	---	4	9.4E-01	72.65
50-1	24	---	---	---	---	---	4	9.4E-01	72.65
51-1	24	---	---	---	---	---	4	9.4E-01	72.65
52-1	24	---	---	---	---	---	4	9.4E-01	72.65
53-1	24	---	---	---	---	---	4	9.4E-01	72.65
54-1	24	---	---	---	---	---			

Enrpts	MaxTen	MaxComp	AXL	GLC	S	Grade	Length	Erase
6-7	345	+353	0.15	10	4	HF Std/Stud	25.99	
7-8	628	-331	0.27	1	4	HF Std/Stud	51.97	
8-11	510	-331	0.27	1	4	HF Std/Stud	51.97	
12-13								

Node	X-kilo	Y-kilo	Pileq	Cq	J51 Method	dV1(%)	dV2(%)	dL	del
1	1.00	7.04				0.01 L/999	0.01 L/999	0.00	0.00
2	1.00	8.17				0.00 L/999	0.00 L/999	0.00	0.00
3	1.00	9.15				0.00 L/999	0.00 L/999	0.00	0.00
4	1.00	10.16	415	1.00 0.79		0.00 L/999	0.00 L/999	0.00	0.00
5	1.00	11.15				0.00 L/999	0.00 L/999	0.00	0.00
6	1.00	12.16				0.02 L/999	0.01 L/999	0.00	0.00
7	1.00	13.15	1.523	1.00 0.64		0.01 L/999	0.16 L/999	0.01	0.00
8	1.00	14.15		1.00 0.79		0.00 L/999	0.16 L/999	0.00	0.00
9	1.00	15.11		1.00 0.74		0.00 L/999	0.00 L/999	0.00	0.00
10	1.00	16.11				0.00 L/999	0.00 L/999	0.00	0.00
11	1.00	17.11				0.00 L/999	0.00 L/999	0.00	0.00
12	1.00	18.15	315	1.00 0.79		0.00 L/999	0.00 L/999	0.00	0.00
13	1.00	19.15				0.00 L/999	0.00 L/999	0.00	0.00
14	1.00	20.16	0.583	1.00 0.64		0.07 L/999	0.16 L/999	0.01	0.01
15	1.00	21.15				0.02 L/999	0.00 L/999	0.00	0.00
16	1.00	22.16				0.00 L/999	0.00 L/999	0.00	0.00
17	1.00	23.05				0.00 L/999	0.00 L/999	0.00	0.00
18	1.00	24.05	415	1.00 0.79		0.00 L/999	0.00 L/999	0.00	0.00
19	1.00	25.05				0.00 L/999	0.00 L/999	0.00	0.00
20	1.00	26.05				0.00 L/999	0.00 L/999	0.00	0.00
21	1.00	27.05				0.00 L/999	0.00 L/999	0.00	0.00
22	1.00	28.05				0.00 L/999	0.00 L/999	0.00	0.00
23	1.00	29.05				0.00 L/999	0.00 L/999	0.00	0.00
24	1.00	30.05				0.00 L/999	0.00 L/999	0.00	0.00
25	1.00	31.05				0.00 L/999	0.00 L/999	0.00	0.00
26	1.00	32.05				0.00 L/999	0.00 L/999	0.00	0.00
27	1.00	33.05				0.00 L/999	0.00 L/999	0.00	0.00
28	1.00	34.05				0.00 L/999	0.00 L/999	0.00	0.00
29	1.00	35.05				0.00 L/999	0.00 L/999	0.00	0.00
30	1.00	36.05				0.00 L/999	0.00 L/999	0.00	0.00
31	1.00	37.05				0.00 L/999	0.00 L/999	0.00	0.00
32	1.00	38.05				0.00 L/999	0.00 L/999	0.00	0.00
33	1.00	39.05				0.00 L/999	0.00 L/999	0.00	0.00
34	1.00	40.05				0.00 L/999	0.00 L/999	0.00	0.00
35	1.00	41.05				0.00 L/999	0.00 L/999	0.00	0.00
36	1.00	42.05				0.00 L/999	0.00 L/999	0.00	0.00
37	1.00	43.05				0.00 L/999	0.00 L/999	0.00	0.00
38	1.00	44.05				0.00 L/999	0.00 L/999	0.00	0.00
39	1.00	45.05				0.00 L/999	0.00 L/999	0.00	0.00
40	1.00	46.05				0.00 L/999	0.00 L/999	0.00	0.00
41	1.00	47.05				0.00 L/999	0.00 L/999	0.00	0.00
42	1.00	48.05				0.00 L/999	0.00 L/999	0.00	0.00
43	1.00	49.05				0.00 L/999	0.00 L/999	0.00	0.00
44	1.00	50.05				0.00 L/9			

City of Portland

NOV 13 2006

Permit Number

Restrictive Factors	Used:	Yes	No
71 PLF = -1.0 to	71 #	10.0	[#14.71] [70%]
71 PLF = 10.0 to	71 #	21.0	[#14.71] [70%]
20 PLF = 0.0 to	20 #	20.0	[# 2.71] [0%]
4 PLF = -1.0 to	4 #	0.0	[# 2.71] [0%]
4 PLF = 20.0 to	4 #	21.0	[# 2.71] [0%]
Brg. # 1 Vert.R=	988.1 #	Hor.R=	-0.0 #
Brg. # 2 Vert.R=	996.1 #	Hor.R=	0.0 #

```

Repetitive Factors Used:    Yes
  21 PLF = -1.0 to 21  10.0 [y=14.7] [ 0%]
  21 PLF = 10.0 to 21  21.0 [y=14.7] [ 0%]
  40 PLF = 0.0 to 40  20.0 [y=21.7] [ 50%]
Brq. # 1 Vert.Rc= 631.9 # Hor.R= 0.0 #
Brq. # 2 Vert.Rc= 631.0 # Hor.R= -0.0 #

[MPPRS ASCE Pwp/L=][OC 24.00][OF 1.33][NH 1]
Repetitive Factors Used:    Yes
  13 PLF = 0.0 to 13  0.0 L [y=11.6] [100%]
  13 PLF = 0.0 to 13  0.0 L [y= 8.3] [100%]
  13 PLF = -1.0 to -26  20.0 L [y=11.6] [100%]
  -26 PLF = 0.0 to -26  21.0 R [y= 8.0] [100%]
  13 PLF = 0.0 to 13  0.0 L [y=14.7] [ 0%]
  12 PLF = -1.0 to 12  20.0 L [y=14.7] [ 0%]

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13 PLF = 20.0 to 13 = 21.0 [y=14.7] [0%]
 -10 PLF = 0.1 to -10 = 19.9 [y= 8.0] [100%]
 12 PLF = 0.0 to 12 = 20.0 [y= 2.7] [0%]
 Brg. # 1 Vert.R= 177.4 # Hor.R= -129.2 #
 Brg. # 2 Vert.R= -39.3 # Hor.R= -0.0 #

UNITS ASGE Part/L=1 [OC 24.00] [DF 1.33] [DM 1]			
Repetitive Factors Used:			
6 PLF = 0.0 to 0	8 10.0 L [y=11.8] [100%]		
43 PLF = -1.0 to 0	43 0.0 L [y= 8.3] [100%]		
-26 PLF = 10.0 to 0	-26 20.0 R [y= 8.3] [100%]		
13 PLF = 0.0 to 0	13 21.0 R [y= 8.0] [100%]		
13 PLF = 0.0 to 0	13 0.0 [y= 14.7] [0%]		
13 PLF = -1.0 to 0	13 0.0 [y= 14.7] [0%]		
13 PLF = 20.0 to 0	13 21.0 [y= 14.7] [0%]		
10 PLF = 0.1 to 0	10 19.9 [y= 6.0] [100%]		
12 PLF = 0.0 to 0	12 20.0 [y= 2.7] [0%]		
Brg. # 1 Vert.R=	368.9 # Hor.R=	-129.2 #	
Brg. # 2 Vert.R=	163.2 # Hor.R=	-0.0 #	

```

UNIVERS ASCE Perp/Ln [JOC 24.00] [OF 1.33] [DW 1]
Repetitive Factors Used: Yes
-23 PLF 0.0 to -23 10.0 L [y=11.8] [100%]
-60 PLF 0.0 to -60 0.0 L [y=8.3] [100%]
-26 PLF 10.0 to -26 20.0 R [y=8.3] [100%]
-26 PLF 10.0 to -26 10.0 R [y=3.0] [100%]
13 PLF 0.0 to 13 0.0 L [y=14.7] [0%]
13 PLF 0.0 to 13 0.0 L [y=14.7] [0%]
13 PLF 20.0 to 13 21.0 L [y=14.7] [0%]
-10 PLF 0.1 to -10 10.9 L [y=8.0] [100%]
12 PLF 0.0 to 12 20.0 L [y=7.0] [0%]
Brg. # 1 Vert.Rc =-134.6 # Hor.Rc =-0.2
Brg. # 2 Vert.Rc =-116.1 # Hor.Rc =-0.0

```

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UNF25 ASCE PwP/L=J[0C 24.00][DF 1.33][EM 1]
Respective Factors/L:
-23 P/L = 0.0 to -23 = 10.0 L [y=11.8] [100%]
-60 P/L = -1.0 to -60 = 0.0 L [y= 8.3] [100%]
-28 P/L = 20.0 to -23 = 20.0 R [y= 8.3] [100%]
-13 P/L = 20.0 to -13 = 13.0 R [y=14.7] [0%]
13 P/L = 0.0 to 13 = 20.0 L [y=14.7] [0%]
13 P/L = -1.0 to 13 = 0.0 L [y=14.7] [0%]
13 P/L = 20.0 to 13 = 21.0 L [y=14.7] [0%]
10 P/L = 0.1 to 10 = 10.0 L [y= 0.0] [100%]
12 P/L = 0.0 to 12 = 20.0 L [y= 2.7] [0%]
Brg. # 1 Vert.R= 57.0 % Hor.R= -0.2 %
Brg. # 2 Vert.R= 57.0 % Hor.R= -0.2 %
Brg. # 3 Vert.R= 57.0 % Hor.R= -0.2 %

```

[illegible]

```

MPEFS ASCE Pmp/Rn=[10C 24.00]([OF 1.33])([NK 1])
Repetitive Factors Used: Yes
-26 PUF # 0.0 to -26 # 10.0 L [y=1.0] [OK] [100%]
-26 PUF # 1.0 to -26 # 10.0 L [y= 8.0] [OK] [100%]
-6 PUF # 0.0 to -6 # 20.0 L [y= 8.3] [OK] [100%]
-6 PUF # 10.0 to -6 # 20.0 L [y= 8.0] [OK] [100%]
43 PUF # 20.0 to 43 # 21.0 R [y= 8.0] [OK] [100%]
13 PUF # 0.0 to 13 # 21.0 R [y=14.7] [OK] [100%]
13 PUF # -1.0 to 13 # 0.0 [y=14.7] [OK] [100%]
13 PUF # 20.0 to 13 # 21.0 [y=14.7] [OK] [100%]
12 PUF # 0.1 to 12 # 10.0 [y= 8.0] [OK] [100%]
12 PUF # 1.0 to 12 # 20.0 [y= 2.7] [OK] [100%]
Drg. 1 Ver. Re= 153.3 # Ver. Re= -0.0 #
Drg. # 2 Ver. Re= 329.9 # Ver. Re= -0.0 #

```

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MPEFS ASCE Perp/R+10C 24.00#1OF 1.33#1OF 1
Repetitive Factors:
-25 PLF 0.0 to -25 10.0 L [y=1.4] 100%
-25 PLF 0.0 to -25 10.0 L [y=1.4] 100%
-25 PLF -1.0 to -25 21.0 L [y=1.3] 100%
-60 PLF 20.0 to -60 21.0 L [y=1.3] 100%
13 PLF 0.0 to 13 21.0 L [y=14.7] 0%
13 PLF -1.0 to 13 0.0 [y=14.7] 0%
13 PLF 20.0 to 13 21.0 L [y=14.7] 0%
-10 PLF 0.1 to -10 19.0 [y=2.7] 0%
12 PLF 0.1 to 12 20.0 [y=2.7] 0%
Brg. 1 Vert.Re -114.8 # Hor.Re 0.0 #
Brg. # 2 Vert.Re -124.8 # Hor.Re 0.0 #

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TerMS ASCE Parp/R...[OC 24.00][DF 1.23][MG 1]
Repetitive Factors Used: Yes
-25 PLF = 0.0 to -25 10 19.1 [ys 6.3][100%]
-25 PLF = -1.0 to -25 0.0 [ys 6.3][100%]
-25 PLF = 10.0 to -23 20.0 [ys 6.3][100%]
-60 PLF = 20.0 to -60 21.0 [ys 8.0][100%]
13 PLF = 0.0 to 13 20.0 [ys 14.7][ 0%]
13 PLF = -1.0 to 13 0.0 [ys 14.7][ 0%]
13 PLF = 20.0 to 13 21.0 [ys 14.7][ 0%]
10 PLF = 0.0 to 10 19.1 [ys 8.0][100%]

```

```

      reg. f c var1.kw      37.0 # nor.kw      -0.0 #
[***** ASCE Par1+****][OC 24.00][DF 1.33][NOM 1]
Repetitive Factors Used: Yes
-8 PLF * 0.0 to      -8 * 10.0 L [y=11.6][100%]
-8 PLF * -1.0 to     -8 * 0.0 L [y= 8.3][100%]
-8 PLF * 10.0 to     -8 * 20.0 R [y= 0.3][100%]
-8 PLF * 20.0 to     -8 * 7.0 R [y= 8.0][100%]
13 PLF * 0.0 to      13 * 0.0 [y=14.7][ 0%]
13 PLF * -1.0 to     13 * 0.0 [y=14.7][ 0%]

```

```

-10 PLF = 0.1 to -10 19.9 [y=8.0][100%]
-10 PLF = 0.0 to 12 20.0 [y=2.7][ 0%]
Arg. # 1 Vert. R= 71.9 # Hor. R= 0.0 #
Arg. # 2 Vert. R= 71.9 # Hor. R= 0.0 #
[UNITS ASSE Part=1][OC 24.00][DF 1.33][NW 1]
Repetitive Factors Used:
-8 PLF = 0.0 to -8 10.1 [y=11.8][100%]
-8 PLF = -1.0 to -8 0.0 [y= 8.3][100%]
-8 PLF = 1.0 to -8 20.0 [y= 6.3][100%]
-8 PLF = 20.0 to -8 21.0 [y= 8.0][100%]
13 PLF = 0.0 to 13 20.0 [y=14.7][ 0%]
13 PLF = 0.0 to 13 21.0 [y=14.7][ 0%]
13 PLF = 20.0 to 13 21.0 [y=14.7][ 0%]
10 PLF = 0.1 to 10 19.9 [y= 8.0][100%]

```

```
12 PLF = 0.0 to 12 @ 20.0 [y= 2.7][ %]
Brg. # 1 Vert.R= 284.3 # Hor.R= 0.0 #
Brg. # 2 Vert.R= 284.3 # Hor.R= 0.0 #
[BRFS ASCE Par(=)[OC 24.00][DF 1.33][NG 1]
```

```

-42 PLF = 0.0 to 10 -42 10.0 L [y=11.1] [000]
-42 PLF = -1.0 to 10 -42 0.0 L [y=8.3] [000]
-42 PLF = 10.0 to 10 -42 20.0 M [y=8.3] [000]
-42 PLF = 20.0 to 10 -42 21.0 R [y=8.0] [000]
13 PLF = 0.0 to 13 13 0.0 [y=14.7] [00]
13 PLF = -1.0 to 13 13 0.0 [y=14.7] [00]
13 PLF = 20.0 to 13 13 21.0 [y=14.7] [00]
-10 PLF = 0.1 to -10 19.9 [y=8.0] [000]
12 PLF = 0.0 to 12 20.0 [y=7.7] [00]
Deg. # 1 Vert.R= -202.2 # Hor.R= 0.0 #
Deg. # 2 Vert.R= -202.2 # Hor.R= -0.0 #
[STATUS ASCE Part1=][LOC 24.00][DP 1.33][NM 1]

```

```

-42 P1F = 0.0 to -42 10.0 L 11.81 100%
-42 P1F = -1.0 to -42 0.0 R 8.33 100%
-42 P1F = 10.0 to -42 20.0 R 8.33 100%
-42 P1F = 20.0 to -42 21.0 R 8.0 100%
13 P1F = 0.0 to 13 20.0 [y=14.7] ON
13 P1F = -1.0 to 13 0.0 [y=14.7] ON
13 P1F = 20.0 to 13 21.0 [y=14.7] ON
10 P1F = 0.1 to 10 19.9 [y=19.9] 100%
12 P1F = 0.0 to 12 20.0 [y=2.7] ON
Drg. # 1 Vert.-Re -06.8 # Hor.-Re 0.0 #
Drg. # 2 Vert.-Re -09.8 # Hor.-Re -0.0 #
[TCAC ASCE Wind Lt.-] [OC 24.00] [DF 1.33] [MM 1]

```

-85 PLF	2.0 to	-65	10.0	11.8	100%
-109 PLF	13.0 to	-109	13.0	10.6	100%
-100 PLF	0.0 to	-100	2.0	9.0	100%
-138 PLF	-1.0 to	-138	0.0	8.3	100%
-85 PLF	13.0 to	-65	21.0	8.0	100%
13 PLF	0.0 to	13	0.0	14.7	0%
13 PLF	2.0 to	13	10.0	14.7	0%
13 PLF	-1.0 to	13	0.0	14.7	0%
13 PLF	10.0 to	13	13.0	14.7	0%
13 PLF	13.0 to	13	21.0	14.7	0%
-10 PLF	0.1 to	-10	19.0	8.0	100%
12 PLF	0.0 to	12	20.0	2.7	0%

Percentage	Factors	Used	Yes		
100 P/LF	7.0 to	100	10.1	L	11.8 (100%)
-85 P/LF	-1.0 to	-85	7.0	L	10.6 (100%)
100 P/LF	10.0 to	85	10.0	R	9.0 (100%)
100 P/LF	18.0 to	100	20.0	R	8.3 (100%)
136 P/LF	20.0 to	136	21.0	R	8.0 (100%)
13 P/LF	7.0 to	13	10.0		14.7 (0%)
13 P/LF	-1.0 to	13	7.0		14.7 (0%)
13 P/LF	10.0 to	13	10.0		14.7 (0%)
13 P/LF	18.0 to	13	20.0		14.7 (0%)
13 P/LF	20.0 to	13	21.0		14.7 (0%)
-10 P/LF	0.1 to	-10	19.9		8.0 (100%)
12 P/LF	0.0 to	12	20.0		2.7 (0%)

CSC ASCE Wind Lst... (24, 04.00) (DF 1.33) (NM 1)									
Negative Factors Used:		Yes							
-63 PLF	2.0 to 10	-63	10.0 L	11.0	100%				
-109 PLF	10.0 to 13	-109	13.0 R	10.6	100%				
-102 PLF	0.0 to 13	-102	2.0 L	8.3	100%				
-136 PLF	-1.0 to 13	-136	0.0 R	8.3	100%				
-63 PLF	12.0 to 13	-63	21.0 R	8.0	100%				
13 PLF	0.0 to 13	13	2.0 L	14.7	0%				
13 PLF	0.0 to 13	13	10.0 L	14.7	0%				
13 PLF	-1.0 to 13	13	0.0 R	14.7	0%				
13 PLF	10.0 to 13	13	13.0 L	14.7	0%				
13 PLF	13.0 to 13	13	21.0 R	14.7	0%				
10 PLF	0.1 to 10	10	19.8 R	8.0	100%				
12 PLF	0.0 to 12	12	20.0 R	2.7	0%				

CAC ASCE Wind Ret...[OC 24.00][DF 1.33][NM 1]									
Repetitive Factors Used:									
-109	PLF = 7.0 to	-109	10.0 L	[y=11.8]	100%				
-65	PLF = -1.0 to	-65	7.0 L	[y=10.6]	100%				
-65	PLF = 12.0 to	-65	18.0 R	[y=9.0]	100%				
-109	PLF = 18.0 to	-109	20.0 R	[y=8.2]	100%				
-136	PLF = 20.0 to	-136	21.0 R	[y=8.0]	100%				
13	PLF = 7.0 to	13	10.0 L	[y=14.7]	0%				
13	PLF = -1.0 to	13	7.0 L	[y=14.7]	0%				
13	PLF = 10.0 to	13	18.0 L	[y=14.7]	0%				
13	PLF = 18.0 to	13	20.0 L	[y=14.7]	0%				
13	PLF = 20.0 to	13	21.0 L	[y=14.7]	0%				
10	PLF = 0.1 to	10	19.9 L	[y=8.0]	100%				

```
12 PLF @ 0.0 to 12 @ 20.0 [yr 2,7] [ 0%]
```

1

1

7

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

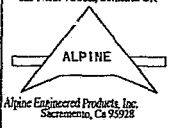
Figure 1 is a line graph showing the percentage of total energy expenditure (TEE) for different activities over a 24-hour period. The Y-axis is 'Percentage of TEE' (0-100) and the X-axis is 'Time of Day' (0-24). The legend indicates: Sleeping (hatched), Sedentary (white), Light (diagonal lines), Moderate (cross-hatch), and Vigorous (solid black). Sleeping is highest at night (~30-40%). Sedentary is highest in the morning (~20-30%). Light activity is highest in the afternoon (~10-20%). Moderate and Vigorous activities are highest in the afternoon/evening (~10-20%).

Age Group	1970	1980	1990	2000	2010	2020
0-14	25	22	20	18	15	10
15-24	15	16	17	18	19	20
25-34	10	11	12	13	14	15
35-44	10	11	12	13	14	15
45-54	10	11	12	13	14	15
55-64	10	11	12	13	14	15
65+	10	11	12	13	14	15

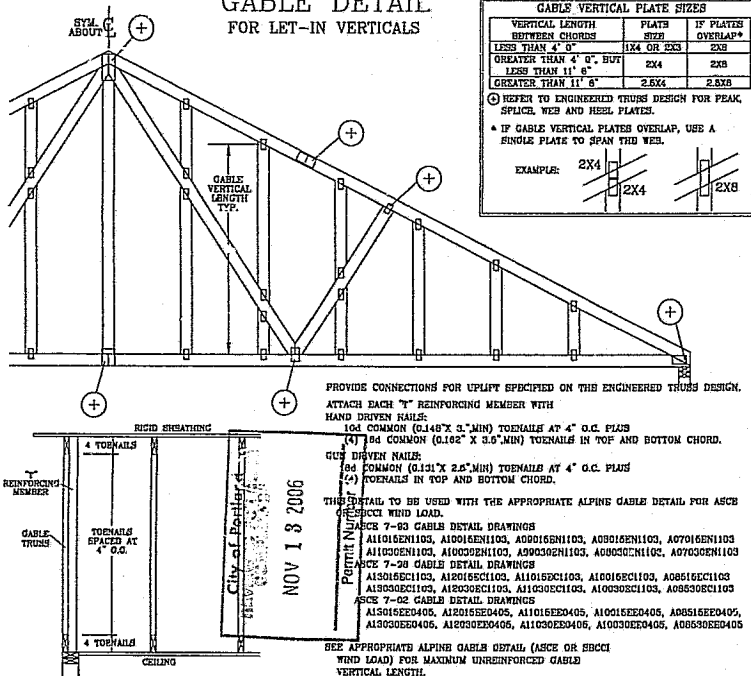
Welds 2x4 HF Std/Stud : M7 2x6 HF #2:

TC - 200 LB Conc. Load at 10.00

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



GABLE DETAIL FOR LET-IN VERTICALS

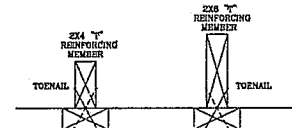


GABLE VERTICAL PLATE SIZES		
VERTICAL LENGTH BETWEEN CHORDS	PLATE SIZE	IF PLATES OVERLAP*
LESS THAN 4' 0"	1X4 OR 2X3	2X3
GREATER THAN 4' 0" BUT LESS THAN 11' 6"	2X4	2X3
GREATER THAN 11' 6"	2X4	2X3

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

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

EXAMPLE: 2X4, 2X4, 2X3



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

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

WEB LENGTH INCREASE W/ "T" BRACE

WIND SPEED AND MPH	"T" REINP. MBR. SIZE	SPCCI	ASCE
110 MPH	2x4	10 X	10 X
15 FT	2x3	40 X	60 X
110 MPH	2x4	10 X	10 X
30 FT	2x3	60 X	60 X
100 MPH	2x4	10 X	10 X
15 FT	2x3	30 X	60 X
100 MPH	2x4	10 X	10 X
30 FT	2x3	40 X	40 X
90 MPH	2x4	20 X	10 X
15 FT	2x3	20 X	40 X
90 MPH	2x4	10 X	10 X
30 FT	2x3	30 X	50 X
80 MPH	2x4	10 X	20 X
15 FT	2x3	10 X	30 X
80 MPH	2x4	10 X	10 X
30 FT	2x3	20 X	40 X
70 MPH	2x4	0 X	20 X
15 FT	2x3	0 X	20 X
70 MPH	2x4	10 X	20 X
30 FT	2x3	10 X	30 X

EXAMPLE:

ASCE WIND SPEED = 100 MPH
MEAN ROOF HEIGHT = 30 FT
GABLE VERTICAL = 24' O.C. SP #3
"T" REINFORCING MEMBER SIZE = 2X4
"T" BRACE INCREASE (FROM ABOVE) = 10X = 1.10
(1) 2X4 "L" BRACE LENGTH = 0' 7"
MAXIMUM "T" REINFORCED GABLE VERTICAL LENGTH
1.10 X 0' 7" = 7' 3"

THIS DRAWING REPLACES DRAWINGS GAB98117 876,719 & HC26294035

WARNING TRUSSES REQUIRE EXTREME CARE IN FABRICATING, HANDLING, SHIPPING, INSTALLING AND BRACING. REFER TO SECT 1-3 CHILING COMPLIANT SAFETY INFORMATION. PURCHASED BY THE CIVILS PLATE INSTITUTE, 200 DOWNEY RD, SUITE 200, HANSON, VA 23719 AND WICK OAK TRUSS COUNCIL, 7 AMERICA, 6300 BOUTWICK LN, HANOVER, VA 22060 FOR SAFETY PRACTICES PRIOR TO PERFORMING THESE FUNCTIONS. UNLESS OTHERWISE INDICATED, THE OWNER SHALL HAVE PROPERLY ATTACHED STRUCTURAL, FINISH AND RUMOR CHORDS SHALL HAVE A PROPERLY ATTACHED RIGID CEILING.

IMPORTANT FURNISH COPY OF THIS DESIGN TO INSTALLATION CONTRACTOR. ALPINE ENGINEERS, PRODUCTS, 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 CONTRACTS WITH APPLICABLE PROVIDING OF THE CHORDS, DESIGN SPEC. BY ALPINE AND THE ALPINE CONTRACTOR PLATES AND OR CHORDS OF THE TRUSS. THE TRUSS SHALL BE USED AS A GABLE DETAIL. APPLY PLATES TO EACH FACE OF TRUSS AND, UNLESS OTHERWISE SPECIFIED, THE TRUSS SHALL BE USED AS A GABLE DETAIL. ANY DEVIATION FROM THIS DESIGN SHALL BE THE RESPONSIBILITY OF THE USER. THE USER SHALL BE PENALIZED BY THE TRUSS SPEC. SEC. 3. A SIGN OF THIS DRAWING INDICATES ACCEPTANCE OF PROFESSIONAL ENGINEER RESPONSIBILITY. THE USER SHALL BE RESPONSIBLE FOR THE DESIGN, THE SUITABILITY AND USE OF THIS COMPONENT FOR ANY BUILDING IS THE RESPONSIBILITY OF THE BUILDING RESIDENT, PER ANGLEVIEW SEC. 2.



MAX TOT. LD. 60 PSF

DUR. FAC. ANY

MAX SPACING 24.0"

REF LET-IN VERT

DATE 04/14/05

DRWG GBLLETIN0405

-BNG DLJ/KAR

