

**CITY OF SACRAMENTO**

**1231 I Street, Sacramento, CA 95814**

**Permit No: 0113676**

**Insp Area: 2**

**Thos Bros: 336 G2**

**Site Address: 388 SPINNAKER WY SAC**

**Parcel No: 031-0464-005**

**Sub-Type: REP**

**Housing (Y/N): N**

**CONTRACTOR**

DH CONSTRUCTION  
4324 ORANGE GROVE AV  
SACRAMENTO CA 95841

**OWNER**

ZEHETMAYER ERMA  
388 SPINNAKER WY  
SACRAMENTO CA 95831

**ARCHITECT**

**Nature of Work: FIRE REPAIR - COMPLETE INTERIOR AND NEW ROOF TRUSSES.**

**CONSTRUCTION LENDING AGENCY :** I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name \_\_\_\_\_

Lender's Address \_\_\_\_\_

**LICENSED CONTRACTORS DECLARATION:** I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class B-1 License Number 362161 Date 10/22/01 Contractor Signature [Signature]

**OWNER-BUILDER DECLARATION:** I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. \_\_\_\_\_ B & PC for this reason: \_\_\_\_\_

Date \_\_\_\_\_ Owner Signature \_\_\_\_\_

**IN ISSUING THIS BUILDING PERMIT,** the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and hereby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date 10/22/01 Applicant/Agent Signature [Signature]

**WORKER'S COMPENSATION DECLARATION:** I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier: STATE COMPENSATION INS FUND Policy Number: 161675-01 Exp Date: 01/01/2002

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 10/22/01 Applicant Signature [Signature]

**WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.**

**THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.**

Sacramento Fire Department - Incident Report

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Incident No : 010043115 Call# : 1096744 Date: 09/15/01 Time: 17:01  
Address : 388 SPINNAKER WY  
Type : 11 BUILDING FIRE  
Action Taken: 13 EXTINGUISH, SALVAGE, OVERHAUL  
Property : 1-2 FAMILY RESIDENTIAL: SINGLE FAMILY  
UBC : DWELLINGS AND LODGING HOUSES  
-----

Weather : 85 Degrees / Clear  
Resources : 5 Engines, 4 Trucks 1 Medic  
1 Other Apparatus  
1 Fire Rescue Unit

Fire Casualties : None

Fire Damage : Confined to structure of origin  
Smoke Damage : Confined to structure of origin  
Property Loss : \$250,000 Contents Loss : \$80,000  
Property Value : \$350,000 Contents Value: \$120,000  
Area of Origin : Insufficient information to classify Level: A01  
Caused by : No equipment involved  
Form of Heat : Undetermined  
Ignition Factor : Undetermined  
Type of Material : Undetermined  
Form of Material : Undetermined  
Type of Material : Sawn woods, finished lumber  
Form of Material : Structural member, framing  
Smoke Travel : Undetermined/not reported  
Other Factors : Insufficient information

Acts or Omissions Insufficient information  
Extinguished by : Water from hydrant, draft, standpipe  
Structure Type : Building with one specific property use  
Structure Status : In use  
Not occupied  
Construction Type: Type V - Wood Frame  
Roof Type : Wood shake - treated  
Number of Stories: 1

Detector Type : Smoke detector - other  
Power : Undetermined/not reported  
Performance : Undetermined/not reported  
Reason Failed : Undetermined/not reported

Extinguishing Sys: No extinguishing system

Report Author : F181

388 SPINNAKER WAY

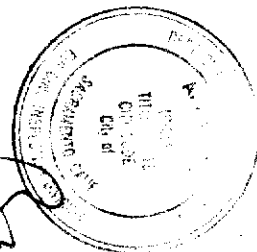
01136762

# Scope of Work

## FIRE REPAIR - ROOF REBUILD

388 SPINNAKER WAY

1. REPLACE TRUSSES
2. REPLACE DRYWALL
3. Electrical Repair
4. Replace Heat & Air Unit
5. Replace Plumbing Vents
6. Replace Roofing
7. Replace Some T. 1-11 Siding
8. Replace Ceiling & Wall Insulation
9. Replace Cabinet & Tile Kitchen & Bath
10. Replace Floor Covering
11. Windows OK
12. Interior & Exterior Paint Complete
13. Exterior Doors & Trim "
14. 25 YR. DIM. COMP. RFLG OVER 15# FELT OVER 5/8" OSB, 4d @ 6" O/C E.N. & 12" O/C F.N.

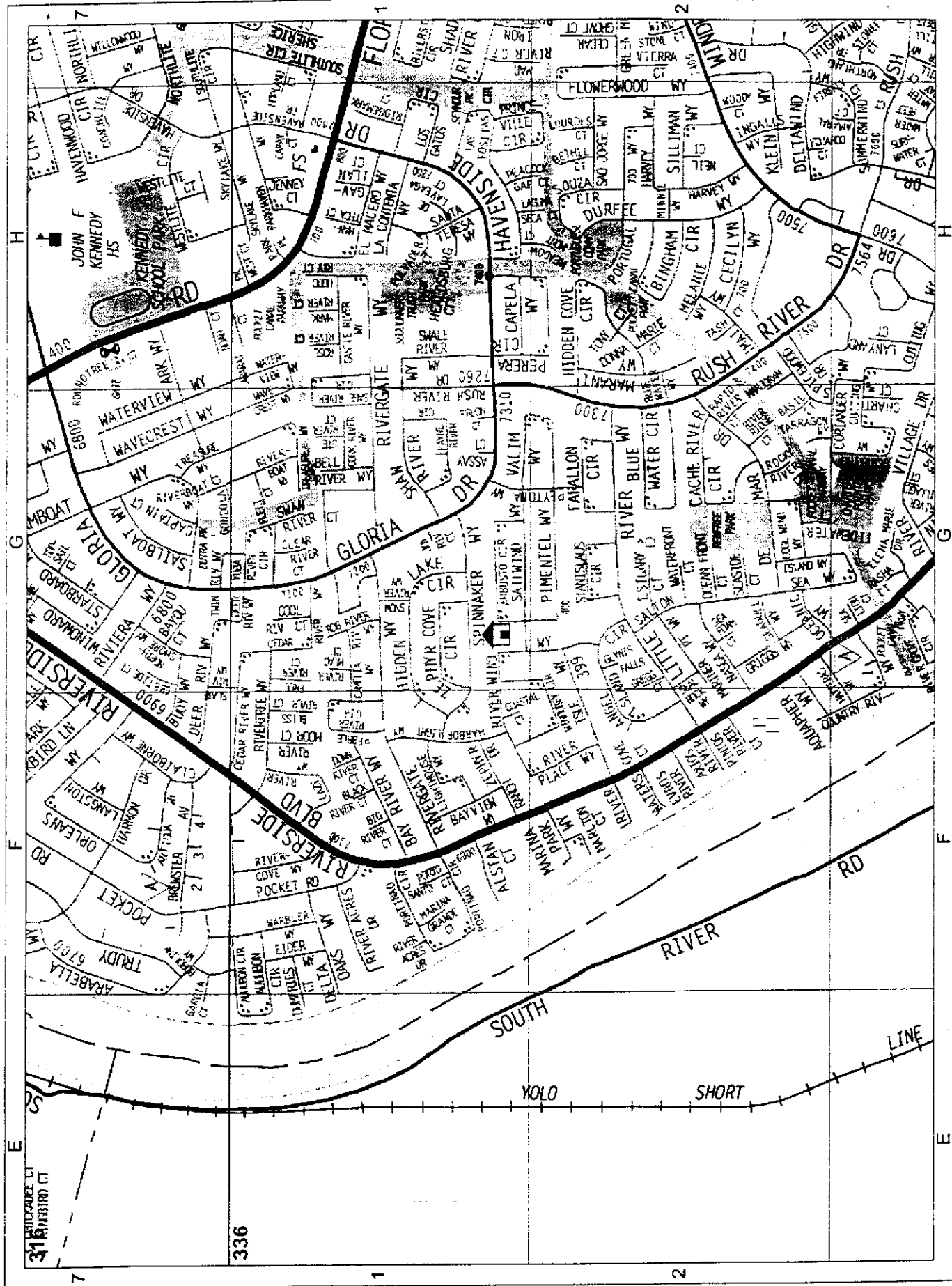


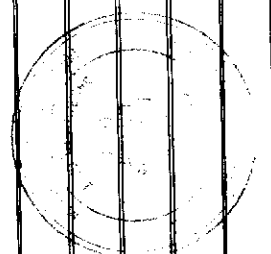
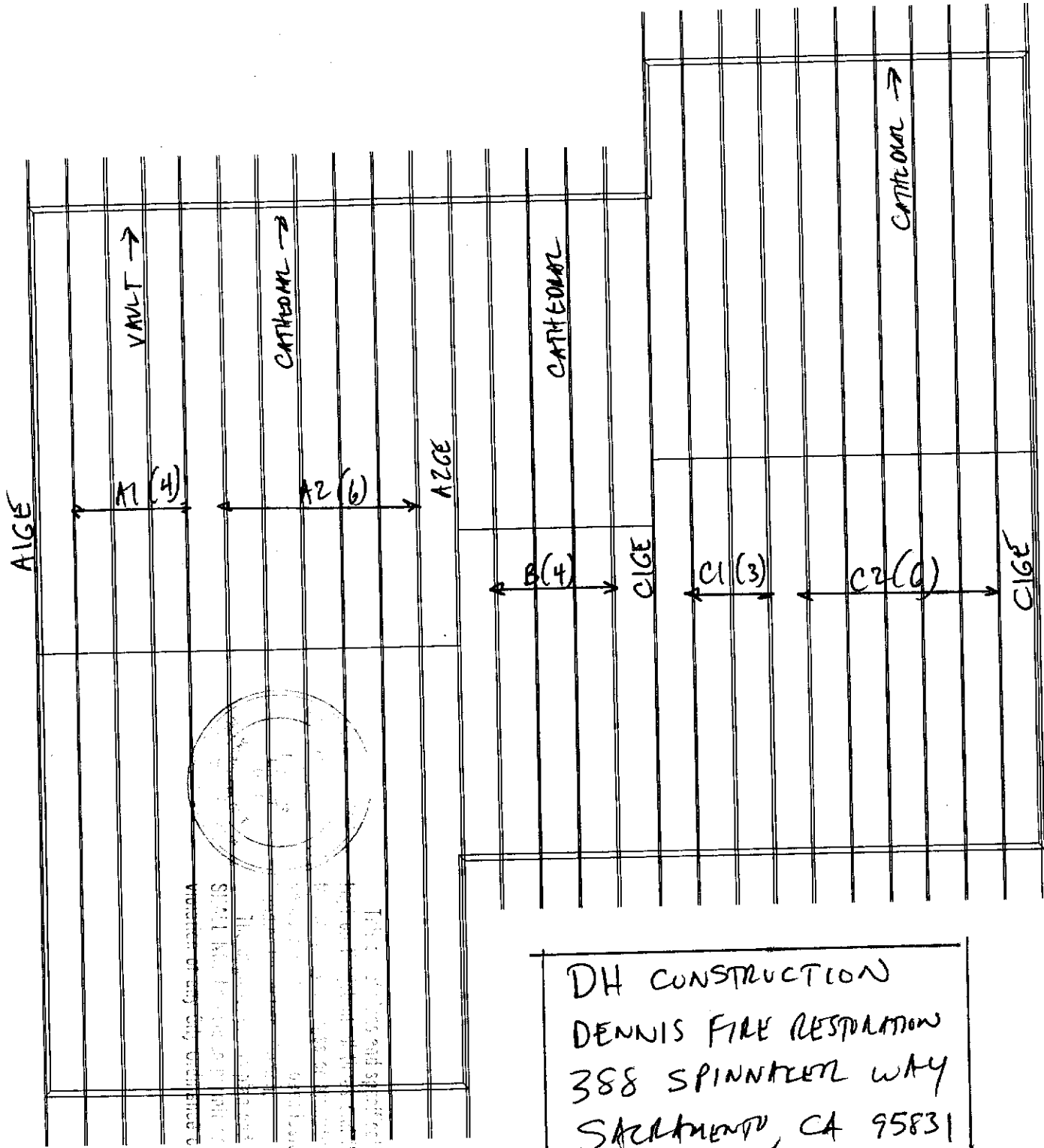
The City of St. Louis and specifications shall be kept on the job at all times and it is unlawful to make any changes or alterations from the specifications without written permission from the Building Inspection Division.

The approval of this plan and specification SHALL NOT be held to permit or approve the violation of any City Ordinance or State Law.

10/22/01







DH CONSTRUCTION  
 DENNIS FIRE RESTORATION  
 388 SPINNEY WAY  
 SACRAMENTO, CA 95831

ISSUE

107

ISSUED



Mitek Industries, Inc.  
3033 GOLD CANAL DRIVE  
SUITE 200  
RANCHO CORDOVA CA 95670  
USA  
FAX (916) 631 8225  
TELEPHONE (916) 631 7811

Re: dhdennis  
DH CONST DENNIS 388 SPINNAKER WAY SAC

The truss drawing(s) referenced below have been prepared by MiTek Industries, Inc. under my direct supervision based on the parameters provided by General Truss

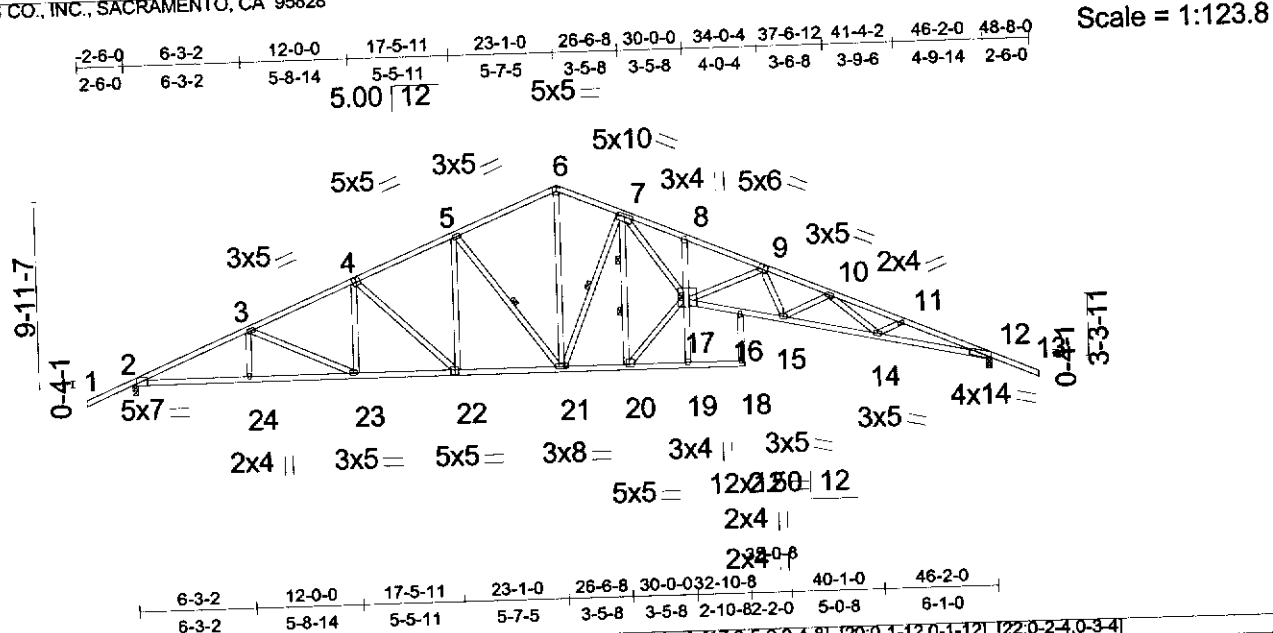
Pages or sheets covered by this seal: R732063 thru R732070  
My license renewal date for the state of California is September 30, 2004.



October 16, 2001

Yu, Ray

The seal on these drawings indicate acceptance of professional engineering responsibility solely for the truss components shown. The suitability and use of this component for any particular building is the responsibility of the building designer, per ANSI/TPI-1995 Sec. 2.



LOADING (psf)	SPACING	CSI	DEFL (in)	(loc)	Vdefl	PLATES GRIP
TCLL 16.0	2-0-0	TC 0.75	Vert(LL) -0.56	18-19	>990	M20 220/195
TCDL 14.0	Plates Increase 1.00	BC 1.00	Vert(TL) -1.30	18-19	>425	
BCLL 0.0	Lumber Increase 1.25	WB 0.59	Horz(TL) 0.63	12	n/a	Weight: 272 lb
BCDL 7.0	Rep Stress Incr YES	(Matrix)	1st LC LL Min Vdefl = 360			
	Code UBC97/ANSI95					

**LUMBER**  
 TOP CHORD 2 X 4 DF No. 1&Btr-G  
 BOT CHORD 2 X 4 DF No. 1&Btr-G  
 WEBS 2 X 4 DF Std-G \*Except\*  
 17-20 2 X 4 DF No. 1&Btr-G, 7-17 2 X 4 DF No. 1&Btr-G

**BRACING**  
 TOP CHORD Sheathed or 1-10-10 on center purlin spacing.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 on center bracing. Except:  
 6-0-0 on center bracing: 18-19.  
 1 Row at midpt 8-19  
 1 Row at midpt 5-21, 7-21  
 2 Rows at 1/3 pts 7-20

**REACTIONS (lb/size)** 2=1857/0-3-8, 12=1856/0-3-8

**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=57, 2-3=3757, 3-4=3272, 4-5=2770, 5-6=2246, 6-7=2209, 7-8=5333, 8-9=5438, 9-10=6352, 10-11=6640, 11-12=6754, 12-13=55  
 BOT CHORD 2-24=3380, 23-24=3380, 22-23=2953, 21-22=2499, 20-21=2305, 19-20=87, 18-19=0, 17-19=-20, 8-17=-182, 16-17=5796, 15-16=5783, 14-15=6255,  
 12-14=6235  
 WEBS 3-24=71, 3-23=485, 4-23=279, 4-22=624, 5-22=510, 5-21=797, 6-21=1371, 7-21=750, 7-20=2139, 17-20=3137, 7-17=4637, 9-17=757, 9-15=453,  
 10-15=323, 10-14=2, 11-14=8, 16-18=65

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) All plates are M20 plates unless otherwise indicated.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 4) A plate rating reduction of 20% has been applied for the green lumber members.
  - 5) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) This truss has been designed with ANSI/TPI 1-1995 criteria.

**LOAD CASE(S)** Standard



October 16, 2001

**WARNING** - Design is based upon parameters shown, and is for an individual component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection, and bracing, consult **QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installation and Bracing Recommendation** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



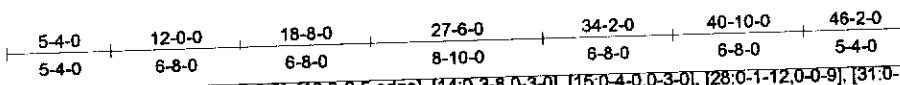
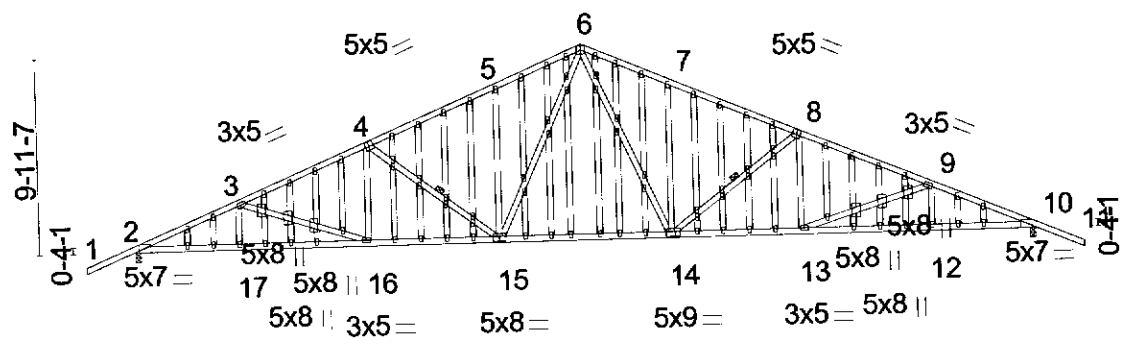
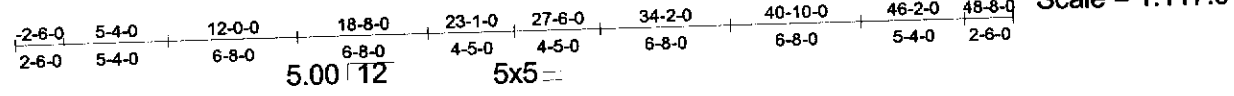


Plate Offsets (X,Y): [2:0-2-5,edge], [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [10:0-2-5,edge], [14:0-3-8,0-3-0], [15:0-4-0,0-3-0], [28:0-1-12,0-0-9], [31:0-1-12,0-0-9], [34:0-1-12,0-0-9], [61:0-1-12,0-0-9], [64:0-1-12,0-0-9], [67:0-1-12,0-0-9]

LOADING (psf)	SPACING	CSI	DEFL (in)	(loc)	I/def	PLATES GRIP
TCLL 16.0	2-0-0	TC 0.61	Vert(LL) -0.27	14-15	>999	M20 220/195
TCDL 14.0	Plates Increase 1.00	BC 0.72	Vert(TL) -0.63	14-15	>874	
BCLL 0.0	Lumber Increase 1.25	WB 0.46	Horz(TL) 0.18	10	n/a	
BCDL 7.0	Rep Stress Incr YES		1st LC LL Min I/def = 360			Weight: 420 lb
	Code UBC97/ANSI95					

**LUMBER**  
 TOP CHORD 2 X 4 DF No.1&Btr-G  
 BOT CHORD 2 X 4 DF No.1&Btr-G  
 WEBS 2 X 4 DF Std-G  
 OTHERS 2 X 4 DF Std-G

**BRACING**  
 TOP CHORD Sheathed or 2-10-5 on center purlin spacing.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 on center bracing.  
 WEBS 1 Row at midpt 4-15, 8-14

**REACTIONS (lb/size)** 2=1856/0-3-8, 10=1856/0-3-8

**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=28, 2-3=-3776, 3-4=-3208, 4-5=-2600, 5-6=-2600, 6-7=-2600, 7-8=-2600, 8-9=-3208, 9-10=-3776, 10-11=28  
 BOT CHORD 2-17=3483, 16-17=3463, 15-16=2956, 14-15=2003, 13-14=2956, 12-13=3463, 10-12=3463  
 WEBS 3-17=83, 3-16=-530, 4-16=263, 4-15=-703, 5-15=-330, 8-15=954, 6-14=954, 7-14=-330, 8-14=-703, 8-13=263, 9-13=-530, 9-12=83

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) All plates are M20 plates unless otherwise indicated.
  - 3) All plates are 2x4 M20 unless otherwise indicated.
  - 4) Gable studs spaced at 1-4-0 on center.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 6) A plate rating reduction of 20% has been applied for the green lumber members.
  - 7) This truss has been designed with ANSI/TPI 1-1995 criteria.

**LOAD CASE(S)** Standard



October 16, 2001

**WARNING:** This design is valid only for the conditions shown. Design is based on parameters shown and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection, and bracing, consult **QST-88 Quality Standard**, **DSB-89 Bracing Specification**, and **HIB-81 Handling Installation and Bracing Recommendation** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719



Scale = 1:107.2

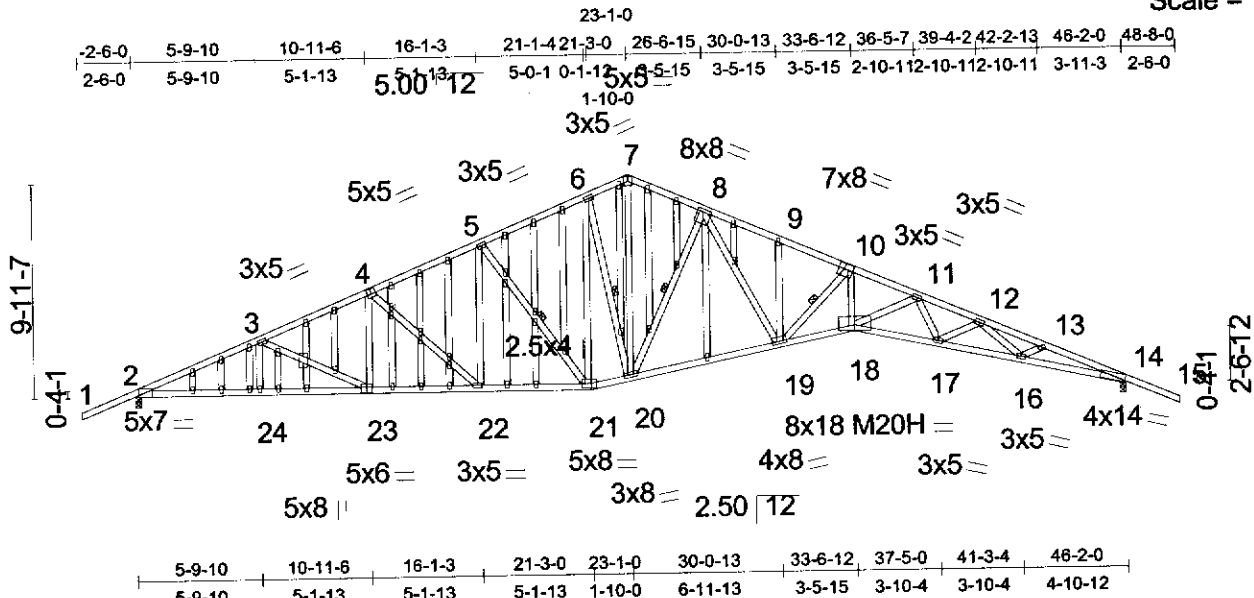


Plate Offsets (X,Y): [2:0-2-5,edge], [4:0-2-8,0-3-0], [8:0-4-0,0-3-8], [8:0-0-0,0-0-5], [10:0-3-4,0-3-0], [14:0-0-12,edge], [18:0-9-0,0-3-9], [19:0-1-15,0-1-8], [21:0-5-4,0-2-8], [23:0-2-12,0-3-4], [33:0-2-5,0-2-8], [33:0-1-12,0-0-13]

<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES GRIP</b>
TCLL 16.0	2-0-0	TC 0.60	(in) (loc) l/def	M20 220/195
TCDL 14.0	Plates Increase 1.00	BC 0.89	Vert(LL) -0.51 18 >999	M20H 165/146
BCLL 0.0	Lumber Increase 1.25	WB 0.79	Vert(TL) -1.17 18 >471	
BCDL 7.0	Rep Stress Incr YES		Horz(TL) 0.54 14 n/a	
	Code UBC97/ANSI95		1st LC LL Min l/def = 360	Weight: 372 lb

**LUMBER**

TOP CHORD 2 X 4 DF No.1&Btr-G  
 BOT CHORD 2 X 4 DF No.1&Btr-G  
 WEBS 2 X 4 DF Std-G \*Except\*  
 10-18 2 X 4 DF No.1&Btr-G  
 OTHERS 2 X 4 DF Std-G

**BRACING**

TOP CHORD Sheathed or 2-0-11 on center purlin spacing.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 on center bracing.  
 WEBS 1 Row at midpt 5-21, 6-20, 8-20, 10-19

**REACTIONS (lb/size)** 2=1857/0-3-8, 14=1856/0-3-8

**FORCES (lb) - First Load Case Only**

TOP CHORD 1-2=28, 2-3=-3745, 3-4=-3304, 4-5=-2840, 5-6=-2363, 6-7=-2278, 7-8=-2278, 8-9=-3910, 9-10=-3910, 10-11=-5988, 11-12=-6702, 12-13=-7016, 13-14=-7090, 14-15=27  
 BOT CHORD 2-24=3437, 23-24=3437, 22-23=3045, 21-22=2622, 20-21=2231, 19-20=2733, 18-19=5432, 17-18=6152, 16-17=6545, 14-16=6607  
 WEBS 3-24=76, 3-23=429, 4-23=256, 4-22=573, 5-22=458, 5-21=726, 6-21=170, 6-20=356, 7-20=1588, 8-20=-1403, 8-19=1938, 9-19=-198, 10-19=-2615, 10-18=2595, 11-18=-575, 11-17=379, 12-17=-255, 12-16=97, 13-16=9

**NOTES**

- 1) This truss has been checked for unbalanced loading conditions.
- 2) All plates are M20 unless otherwise indicated.
- 3) All plates are 2x4 M20 unless otherwise indicated.
- 4) Gable studs spaced at 1-4-0 on center.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
- 6) A plate rating reduction of 20% has been applied for the green lumber members.
- 7) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) This truss has been designed with ANSI/TPI 1-1995 criteria.

**LOAD CASE(S)** Standard



October 16, 2001

**WARNING** - This design is based upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection, and bracing, consult **QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installation and Bracing Recommendation** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

**MiTek Industries, Inc.**

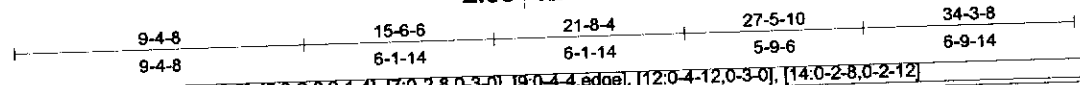
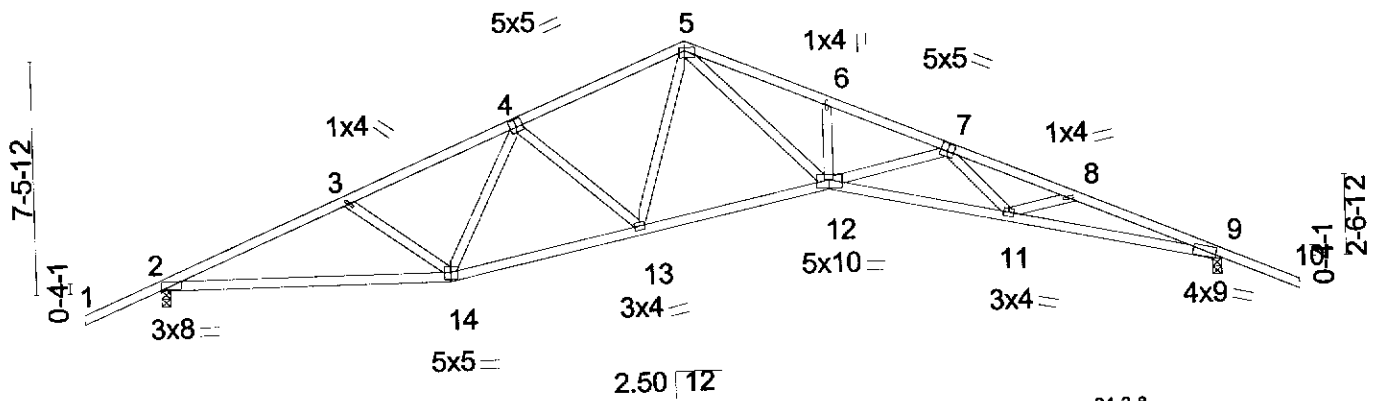
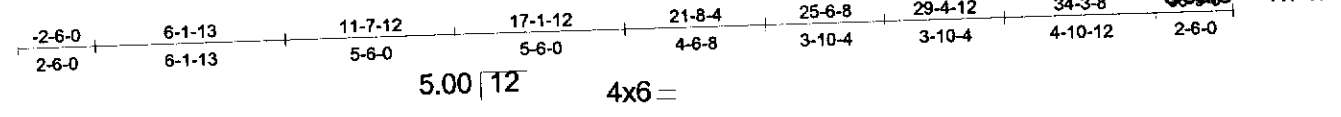


Plate Offsets (X,Y): [2:0-4-2,0-1-3], [4:0-2-8,0-3-0], [5:0-2-0,0-1-4], [7:0-2-8,0-3-0], [9:0-4-4,edge], [12:0-4-12,0-3-0], [14:0-2-8,0-2-12]

<b>LOADING</b> (psf)	<b>SPACING</b> 2-0-0	<b>CSI</b>	<b>DEFL</b> (in) (loc) l/def	<b>PLATES GRIP</b>
TCLL 16.0	Plates Increase 1.00	TC 0.55	Vert(LL) -0.39 2-14 >999	M20 220/195
TCDL 14.0	Lumber Increase 1.25	BC 0.77	Vert(TL) -0.75 2-14 >548	
BCLL 0.0	Rep Stress Incr YES	WB 0.32	Horz(TL) 0.34 9 n/a	Weight: 156 lb
BCDL 7.0	Code UBC97/ANSI95		1st LC LL Min l/def = 360	

**LUMBER**  
 TOP CHORD 2 X 4 DF No.1&Btr-G  
 BOT CHORD 2 X 4 DF No.1&Btr-G  
 WEBS 2 X 4 DF Std-G \*Except\*  
 5-12 2 X 4 DF No.1&Btr-G

**BRACING**  
 TOP CHORD Sheathed or 2-6-3 on center purlin spacing.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 on center bracing.

**REACTIONS** (lb/size) 2=1418/0-3-8, 9=1416/0-3-8

**FORCES** (lb) - First Load Case Only  
 TOP CHORD 1-2=28, 2-3=-2565, 3-4=-2268, 4-5=-2163, 5-6=-3967, 6-7=-3967, 7-8=-4764, 8-9=-5027, 9-10=27  
 BOT CHORD 2-14=2354, 13-14=2206, 12-13=1959, 11-12=4307, 9-11=4695  
 WEBS 3-14=-327, 4-14=-160, 4-13=-220, 5-13=296, 5-12=2484, 6-12=-254, 7-12=-576, 7-11=286, 8-11=-207

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) All plates are M20 plates unless otherwise indicated.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 4) A plate rating reduction of 20% has been applied for the green lumber members.
  - 5) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) This truss has been designed with ANSI/TPI 1-1995 criteria.

**LOAD CASE(S)** Standard



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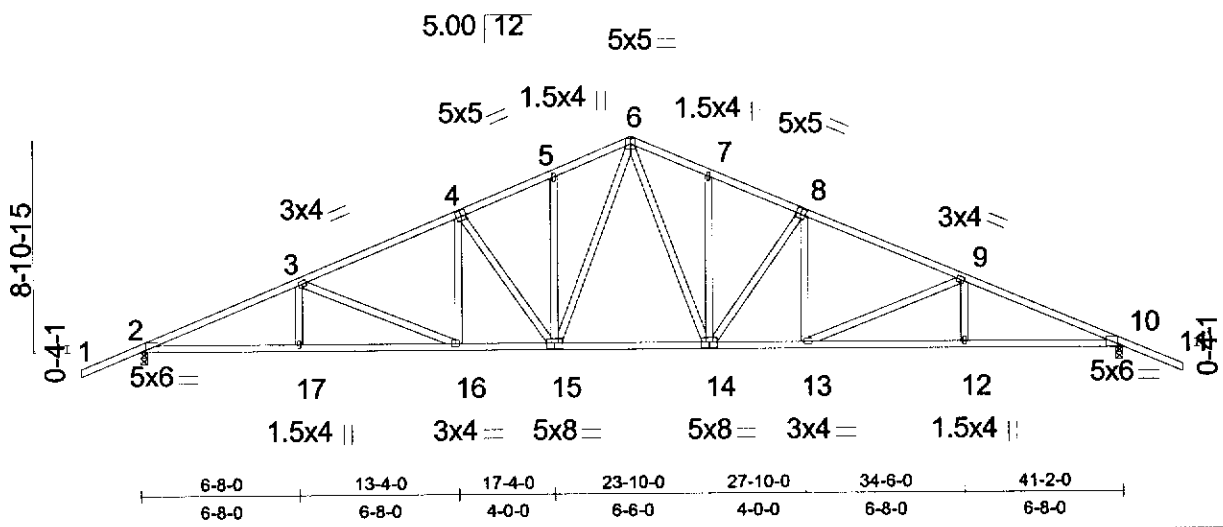
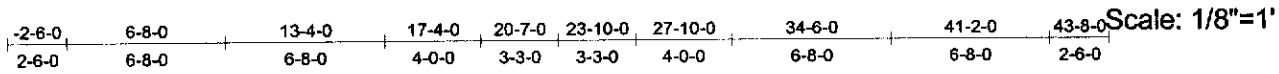


Plate Offsets (X,Y): [2:0-2-9,edge], [4:0-2-8,0-3-0], [8:0-2-8,0-3-0], [10:0-2-9,edge], [14:0-4-0,0-3-0], [15:0-4-0,0-3-0]

<b>LOADING (psf)</b>	<b>SPACING</b>	<b>CSI</b>	<b>DEFL</b>	<b>PLATES GRIP</b>
TCLL 16.0	2-0-0	TC 0.57	(in) (loc) l/defl	M20 220/195
TCDL 14.0	Plates Increase 1.00	BC 0.59	Vert(LL) -0.16 15 >999	
BCLL 0.0	Lumber Increase 1.25	WB 0.53	Vert(TL) -0.39 14-15 >999	
BCDL 7.0	Rep Stress Incr YES		Horz(TL) 0.14 10 n/a	
	Code UBC97/ANSI95		1st LC LL Min l/defl = 360	Weight: 225 lb

**LUMBER**  
 TOP CHORD 2 X 4 DF No.1&Btr-G  
 BOT CHORD 2 X 4 DF No.1&Btr-G  
 WEBS 2 X 4 DF Std-G

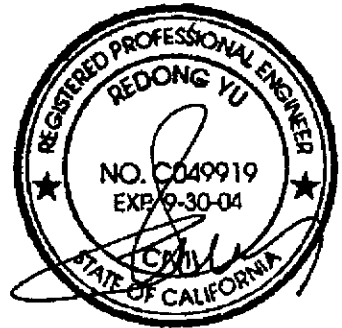
**BRACING**  
 TOP CHORD Sheathed or 3-0-15 on center purlin spacing.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 on center bracing.

**REACTIONS (lb/size)** 2=1671/0-3-8, 10=1671/0-3-8

**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=28, 2-3=3211, 3-4=2615, 4-5=-2249, 5-6=-2249, 6-7=-2249, 7-8=-2249, 8-9=-2615, 9-10=-3211, 10-11=28  
 BOT CHORD 2-17=2949, 16-17=2949, 15-16=2409, 14-15=1786, 13-14=2409, 12-13=2949, 10-12=2949  
 WEBS 3-17=92, 3-16=-580, 4-16=300, 4-15=-584, 5-15=-215, 6-15=820, 6-14=820, 7-14=-215, 8-14=-584, 8-13=300, 9-13=-580, 9-12=92

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) All plates are M20 plates unless otherwise indicated.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 4) A plate rating reduction of 20% has been applied for the green lumber members.
  - 5) This truss has been designed with ANSI/TPI 1-1995 criteria.

**LOAD CASE(S)** Standard



October 16, 2001

**WARNING:** This design is valid only for use with MITek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection, and bracing, consult **QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installation and Bracing Recommendation** available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

**MiTek Industries, Inc.**



Scale = 1:89.1

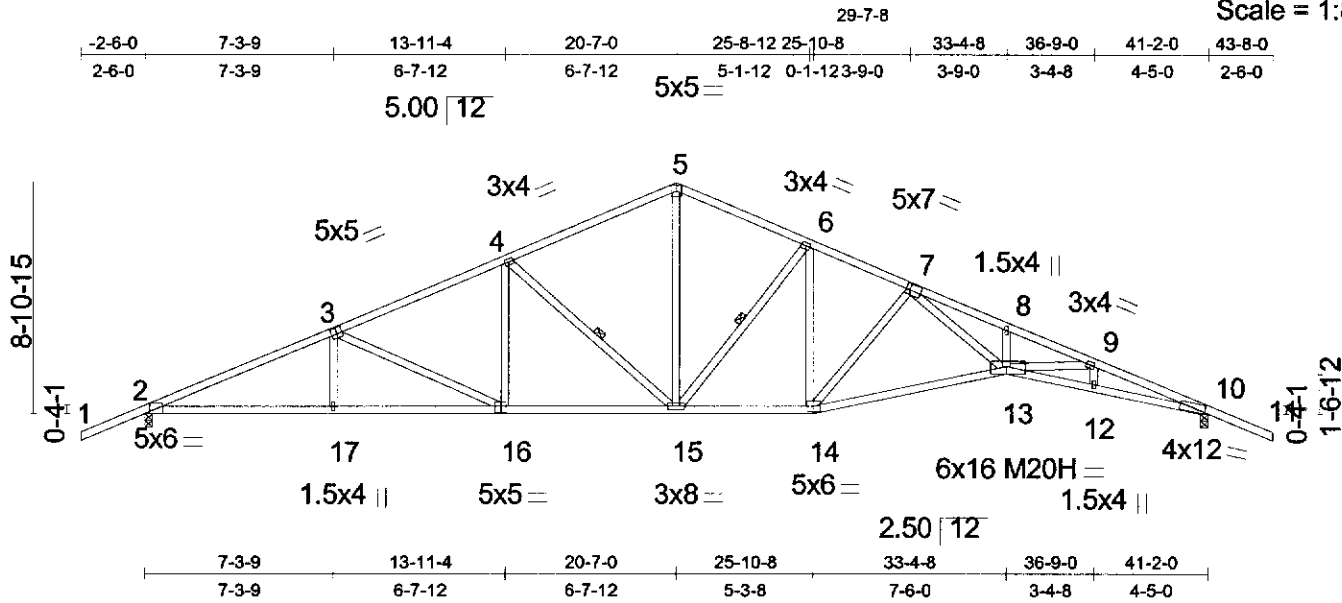


Plate Offsets (X,Y): [2:0-2-5,edge], [3:0-2-8,0-3-0], [7:0-1-12,0-3-0], [10:0-1-12,0-0-7], [13:0-7-4,0-3-8], [14:0-2-12,0-2-8], [16:0-2-4,0-3-0]

LOADING (psf)	SPACING	CSI	DEFL	(in)	(loc)	l/def	PLATES	GRIP
TCLL 16.0	2-0-0	TC 0.63	Vert(LL)	-0.36	13-14	>999	M20	220/195
TCDL 14.0	Plates Increase 1.00	BC 0.78	Vert(TL)	-0.91	13-14	>542	M20H	165/146
BCLL 0.0	Lumber Increase 1.25	WB 0.87	Horz(TL)	0.35	10	n/a		
BCDL 7.0	Rep Stress Incr YES		1st LC LL Min l/def	= 360				Weight: 209 lb
	Code UBC97/ANSI95							

**LUMBER**  
 TOP CHORD 2 X 4 DF No. 1&Btr-G  
 BOT CHORD 2 X 4 DF No. 1&Btr-G  
 WEBS 2 X 4 DF Std-G \*Except\*  
 7-13 2 X 4 DF No. 1&Btr-G

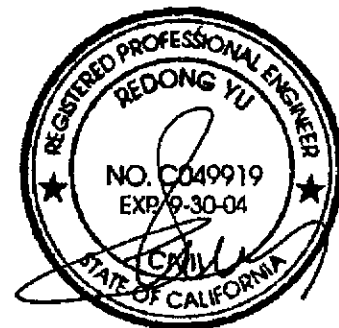
**BRACING**  
 TOP CHORD Sheathed or 2-2-6 on center purlin spacing.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 on center bracing.  
 WEBS 1 Row at midpt 4-15, 6-15

REACTIONS (lb/size) 2=1672/0-3-8, 10=1671/0-3-8

**FORCES (lb) - First Load Case Only**  
 TOP CHORD 1-2=28, 2-3=3156, 3-4=2565, 4-5=1947, 5-6=1947, 6-7=2440, 7-8=5958, 8-9=5958, 9-10=6291, 10-11=27  
 BOT CHORD 2-17=2900, 16-17=2897, 15-16=2368, 14-15=2242, 13-14=3127, 12-13=5874, 10-12=5874  
 WEBS 3-17=97, 3-16=586, 4-18=344, 4-15=760, 5-15=1144, 6-15=714, 6-14=476, 7-14=1305, 7-13=3249, 8-13=212, 9-13=252, 9-12=54

- NOTES**
- 1) This truss has been checked for unbalanced loading conditions.
  - 2) All plates are M20 plates unless otherwise indicated.
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads per Table No. 16-B, UBC-97.
  - 4) A plate rating reduction of 20% has been applied for the green lumber members.
  - 5) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1-1995 angle to grain formula. Building designer should verify capacity of bearing surface.
  - 6) This truss has been designed with ANSI/TPI 1-1995 criteria.

LOAD CASE(S) Standard



October 16, 2001

Design valid for use only with MiTek connectors. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to insure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection, and bracing, consult QST-88 Quality Standard, DSB-89 Bracing Specification, and HIB-91 Handling Installation and Bracing Recommendation available from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719

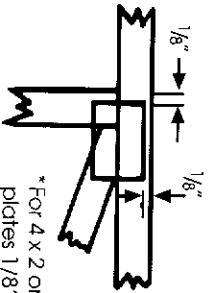


# Symbols

## PLATE LOCATION AND ORIENTATION



\* Center plate on joint unless dimensions indicate otherwise. Dimensions are in inches. Apply plates to both sides of truss and securely seat.



\* For 4 x 2 orientation, locate plates 1/8" from outside edge of truss and vertical web.



\* This symbol indicates the required direction of slots in connector plates.

\* For tabular plating format refer to the Mitek/Gang-Nail Joint/Plate Placement Chart

## PLATE SIZE

4 X 4

The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



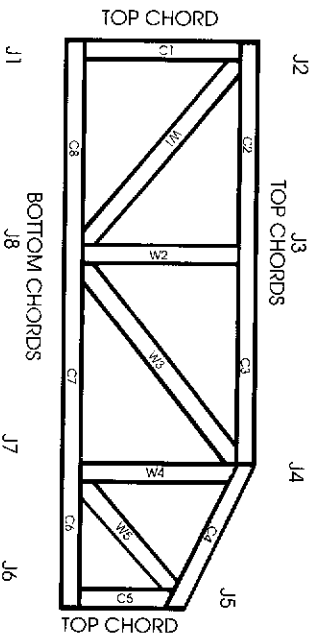
Indicates location of required continuous lateral bracing.

## BEARING



Indicates location of joints at which bearings (supports) occur.

# Numbering System



**JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING WITH THE LOWEST JOINT FARTHEST TO THE LEFT. WEBS ARE NUMBERED FROM LEFT TO RIGHT.**

## CONNECTOR PLATE CODE APPROVALS

BOCA	86-93, 85-75, 91-28
HUD/FHA	TCB 17.08
ICBO	1591, 1329, 4922
SBCCI	87206, 86217, 9190
WISC/DLHR	870040-N, 930013-N, 910080-N

# ▲ General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
2. Cut members to bear tightly against each other.
3. Place plates on each face of truss at each joint and embed fully. Avoid knots and wane at joint locations.
4. Unless otherwise noted, location chord splices at 1/4 panel length (±6" from adjacent joint.)
5. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
6. Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
7. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
8. Plate type, size and location dimensions shown indicate minimum plating requirements.
9. Lumber shall be of the species and size, and in all respects, equal to or better than the grade specified.
10. Top chords must be sheathed or purlins provided at spacing shown on design.
11. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
12. Anchorage and/or load transferring connections to trusses are the responsibility of others unless shown.
13. Do not overload roof or floor trusses with stacks of construction materials.
14. Do not cut or alter truss members or plate without prior approval of a professional engineer.
15. Care should be exercised in handling, erection and installation of trusses.

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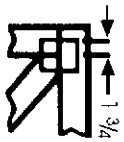
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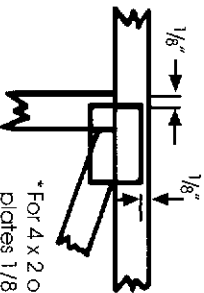


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## LATERAL BRACING



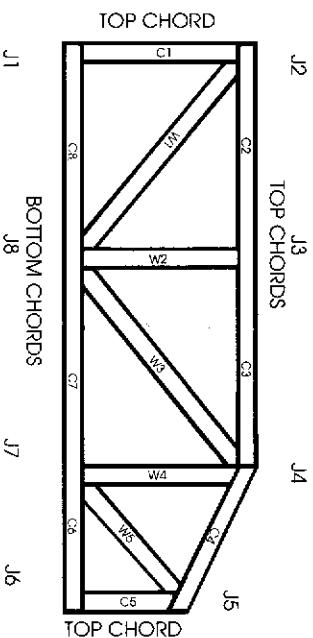
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HUD/FHA	TCB 17.08
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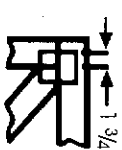
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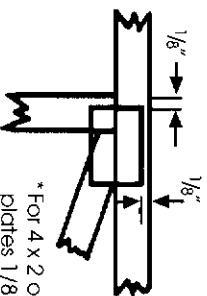
Mitek Industries, Inc.

## Symbols

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### PLATE SIZE

4 X 4

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### LATERAL BRACING



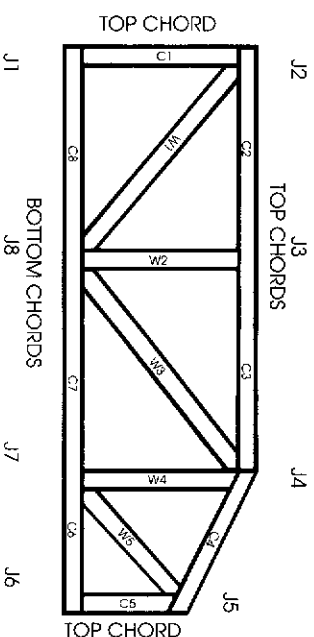
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