

PIEDMONT LUMBER TRUSS DIVISION

CALPELLA, CA.



- **DATE: 3/25/09**
- **CITY OF FORT BRAGG**
- **SECOND DWELLING UNIT**
- **767 SQUARE FEET**
- **ROOF LOAD: 20/9/7**



NOTE: PIEDMONT IS NOT THE ENGINEER ON THIS PROJECT. LIABILITY IS LIMITED TO THE TRUSSES AND RELATED FRAMING ONLY. THESE ARE COMPONENTS OF A STRUCTURE BY OTHERS. BEFORE ERECTING THE ROOF SYSTEM READ ALL ACCOMPANYING LITERATURE COMPLETELY.

Piedmont Lumber Truss Division

Calpella, Ca.

GENERAL INFORMATION

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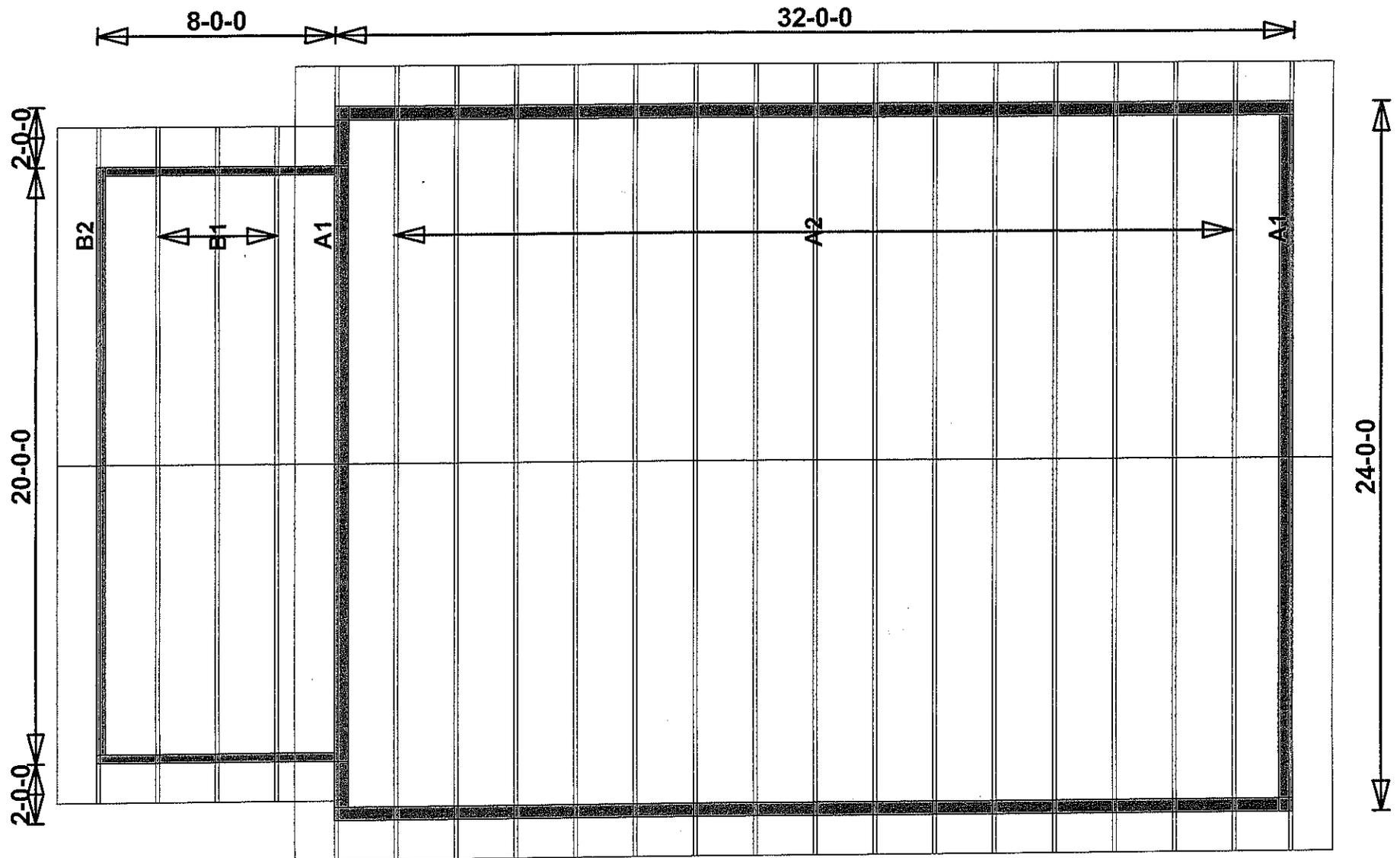
- Trusses are to be handled with care during installation to avoid damage.
- Refer to BCSI-B1 summary sheet guide for handling, installing and bracing of metal plate connected wood trusses before erecting the roof system. This is the red bordered sheet in the blue engineering folder.
- The erection of trusses shall be under the supervision of persons experienced in the installation of wood trusses.
- Concentration of construction loads greater than the design loads shall not be applied to the trusses at any time, nor shall loads other than the weight of the erectors be applied to the trusses until all fastening and bracing has been completed.
- Lateral bracing or T-bracing of individual truss members and/or any braces specifically noted on the truss drawings and the gable end truss brace detail are the only braces that will be specified. Web bracing material is to be supplied and installed by the erection contractor and anchored at intervals as shown on the BCSI-B1 sheet. Gable wall bracing is by the building designer.
- Truss connections to the structure are not the responsibility of Piedmont Truss. We will specify hangers to ledgers, but we will not design the ledger itself. Typically we specify truss to truss, truss to beams and ledgers and beams to truss as long as the beam size and load to be carried are supplied.
- The erection contractor is to install the roof system per project engineer's plans and specifications.

**Piedmont Lumber Truss Division
Calpella, Ca.**

GENERAL INFORMATION

page 2 of 2

- Bracing for the overall stability of the structure is the responsibility of the building designer.
- All California framed areas must have full sheathing on the trusses below. Holes may be drilled in the sheathing to allow for attic ventilation.
- If a rigid ceiling is not applied the bottom chord must be braced at a maximum spacing of ten feet on center using 1x4 lumber minimum attached with two 8d nails minimum.
- Cutting, drilling or any modifications to the trusses is not permitted without prior consent from the engineering department. CALL FIRST.
- If there appears to be a truss problem such as broken members, incorrect configuration, or any other noticeable problem, do not install the trusses. CALL FIRST.
- All hangers are to be Simpson Strong-tie or equal and are to be installed per catalog recommendations unless otherwise noted.



DESIGNED AND MANUFACTURED BY
**PIEDMONT
 LUMBER &
 TRUSS**
 CALPELLA, CA.
 PHONE 707-485-8781

CITY OF FORT BRAGG
 SECOND DWELLING UNIT
 767 SQUARE FEET

Roof Loading
 TC Live: 20.00 psf
 TC Dead: 9.00 psf
 BC Live: 0.00 psf
 BC Dead: 7.00 psf
 TC Stress Inc: 25.00
 BC Stress Inc: 25.00
 Spacing: 2- 0- 0 o.c.

Account: DORSEY DESIGN
 Job: 9049
 Designer:
 Checker:
 Date: 03-25-09

ALL PLATES CENTERED
 ON JOINTS EXCEPT:

JT	PLATE SIZE	X	Y
A	4.00x 6.00	-0.00	CNTR
B	5.00x 5.00	CNTR	-1.65
C	4.00x 6.00	CNTR	-0.00
D	5.00x 5.00	CNTR	0.70



CSI SIZE LUMBER

TOP	BTM	WBS	TC Fb	FC	Ft
0.08	0.05	0.03	1.15	1.10	1.10
2x 4 DFL-#1B	2x 4 DFL-#1B	2x 4 DFL-STAN	Fb=1.10	Fc=1.10	Ft=1.10

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	24- 0- 0
BC Cont.	0- 0- 0	24- 0- 0

MAXIMUM REACTIONS:

JT	REACT	ACT WID	REQ WID
A	223	5- 8	1- 8
C	223	5- 8	1- 8

hz = -90
 *CONTINUOUS BETWEEN GG-D
 * 960 N/A N/A
 *CONTINUOUS BETWEEN D -HH
 C 223 5- 8 1- 8
 hz = 90

Common Truss

Total Design Loads (plf)
TC 58@ A to 58@ B
TC 58@ B to 58@ C
BC 14@ A to 14@ D
BC 14@ D to 14@ C
+ 6 Wind Load Case(s)
+ 1 UBC Load Case
+ 1 Dead Load Case

NOTES:
 Trusses Manufactured by:
 PIEDMONT LUMBER, CALPELLA, C
 Analysis Conforms To:
 IBC/IRC2006
 OH Loading
 Design checked for 10 psf non-
 concurrent LL on BC.

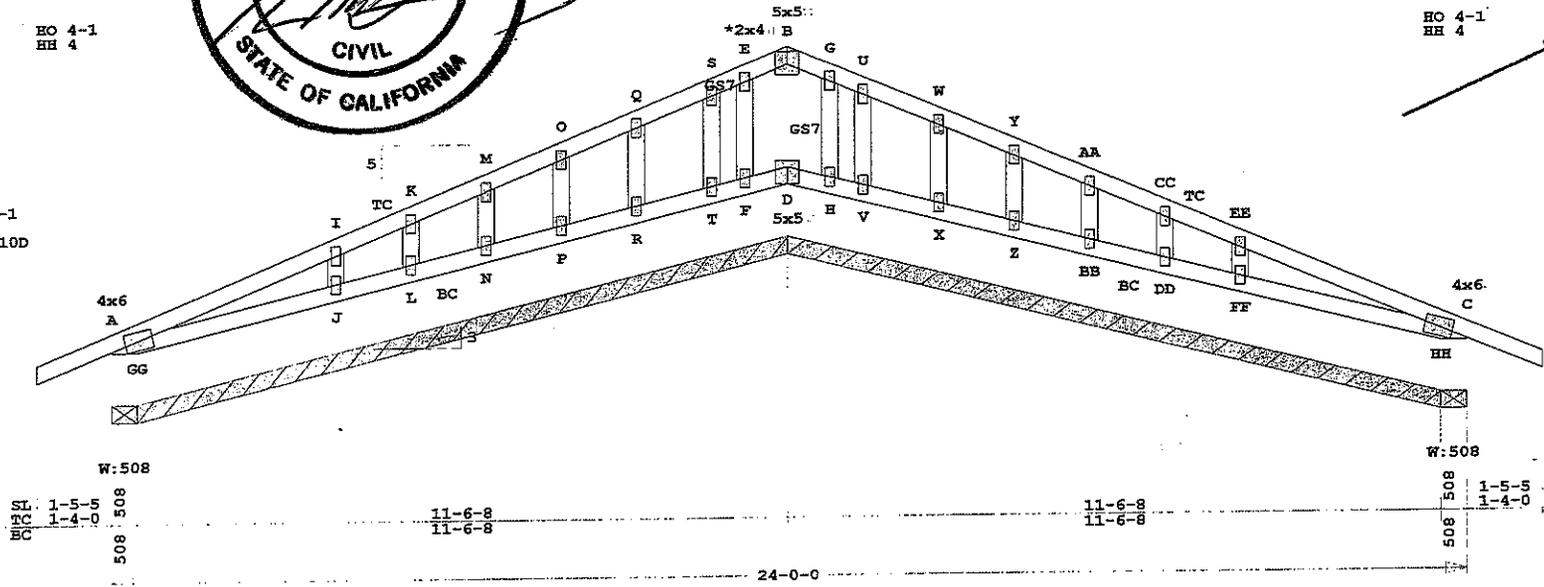
Wind Loads - ANSI / ASCE 7-05
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 85 mph
 Mean Roof Height: 20-0
 Exposure Category: D
 Occupancy Factor : 1.00
 Building Type: Enclosed
 Zone location: Exterior
 TC Dead Load : 5.0 psf
 BC Dead Load : 4.0 psf
 Max comp. force 182 Lbs
 Max tens. force 126 Lbs
 Quality Control Factor 1.10

FABRICATOR NOTES:
 1. TRUSS DESIGNED FOR THE TOP
 CHORD TO BE NOTCHED 1-1/2"
 DEEP BY 3-1/2"
 WIDE FOR OUTRIGGERS. CUTS
 MUST BE CLEAN WITHOUT
 EXCESSIVE OVERCUTTING.
 GABLE STUDS ATTACHED WITH
 CONNECTOR PLATES ONE FACE
 ONLY.

HO 4-1
 HH 4

HO 4-1
 HH 4

5-10-7
 5-4-1
 2-10-10D



ALL PLATES ARE MT2020
 See Joint I For Typical Gable Plate Size and Placement

Robbins Engineering, Inc./Online PlusSM APPROX. TRUSS WEIGHT: 135.0 LBS

Scale: 0.296" = 1'

Camber: 2
 DESIGNED AND MANUFACTURED BY
PIEDMONT LUMBER & TRUSS
 CALPELLA, CA.
 PHONE 707-485-8781
 FAX 485-7893

READ AND UNDERSTAND ALL HANDLING AND ERECTION LITERATURE BEFORE INSTALLING THIS TRUSS. PIEDMONT LUMBER IS NOT THE ENGINEER OF RECORD ON THIS PROJECT. THIS IS A COMPONENT OF A STRUCTURE DESIGNED BY OTHERS. LIABILITY IS LIMITED TO THIS TRUSS ONLY.

Standard Loading

TC Live	20 psf
TC Dead	9 psf
BC Live	0 psf
BC Dead	7 psf
Total	36 psf
Lumber SI	1.25
Plate SI	1.25
Spacing	24.0 in.

Designer: JOHN THOMPSON
 Checker: JOHN THOMPSON
 Reviewer:
 Designed:
 Rev No:
 Rev Date:
 Run Date: 03/25/09
 Version: 23.0.052
 Drawing: AI

ALL PLATES CENTERED ON JOINTS EXCEPT:

JT	PLATE SIZE	X	Y
A	4.00x 8.00	0.00	0.19
C	4.00x 8.00	CNTR	0.19
D	6.00x 8.00	CNTR	-0.61

CSI SIZE LUMBER

TOP	BTM	WBS	TC Fb=	Fc=	Ft=
0.33	0.52	0.65	1.15	1.10	1.10
2x 4 DFL-#1B	2x 4 DFL-#1B	2x 4 DFL-STAN	Fb=1.10	Fc=1.10	Ft=1.10

Brace truss as follows:

O.C.	From	To
TC Cont.	0- 0- 0	24- 0- 0
BC Cont.	0- 0- 0	24- 0- 0

MAXIMUM REACTIONS:

JT	REACT	ACT	WID	REQ	WID
A	941	5- 8	1- 8	hz = -91	
C	941	5- 8	1- 8	hz = 90	

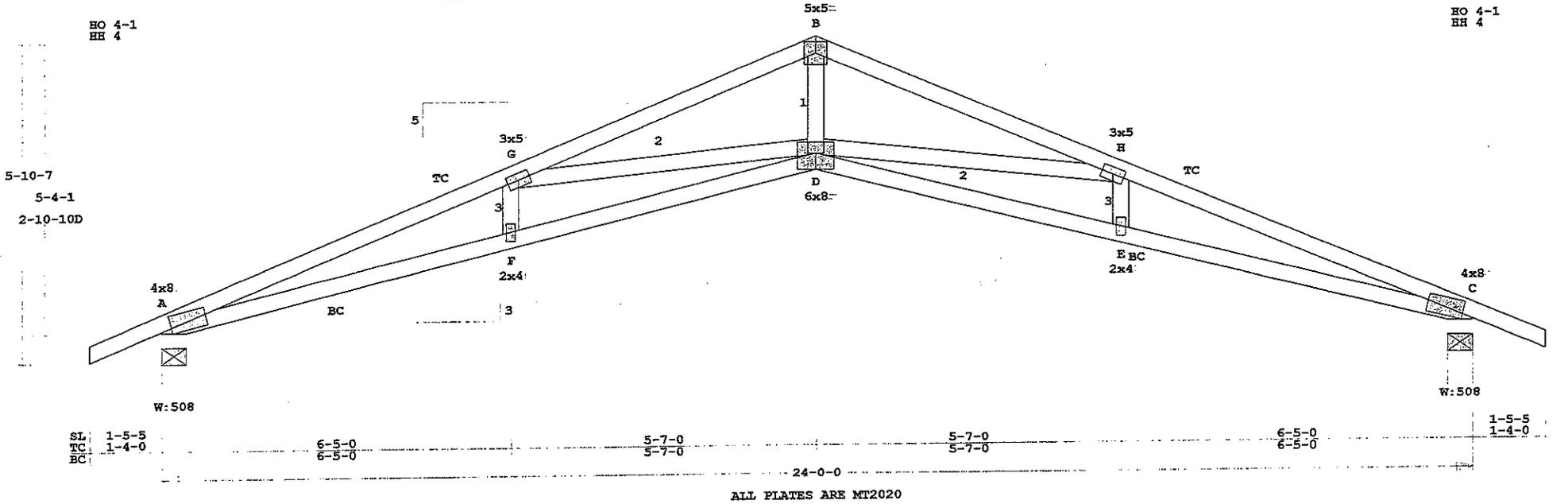
Common Truss
 Total Design Loads (plf)
 TC 58@ A to 58@ B
 TC 58@ B to 58@ C
 BC 14@ A to 14@ D
 BC 14@ D to 14@ C
 + 6 Wind Load Case(s)
 + 1 UBC Load Case
 + 1 Dead Load Case

NOTES:
 Trusses Manufactured by: PIEDMONT LUMBER, CALPELLA, C
 Analysis Conforms To: IBC/IRC2006
 OH Loading
 This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle 3- 6- 0 tall by 2- 0- 0 wide will fit between the B.C. and any other member.
 Design checked for 10 psf non-concurrent LL on BC.
 Wind Loads - ANSI / ASCE 7-05
 Truss is designed as a Main Wind-Force Resistance System.
 Wind Speed: 85 mph
 Mean Roof Height: 20-0
 Exposure Category: D
 Occupancy Factor: 1.00
 Building Type: Enclosed
 Zone location: Exterior
 TC Dead Load: 5.0 psf
 BC Dead Load: 4.0 psf
 Max comp. force 3459 Lbs
 Max tens. force 3286 Lbs
 Quality Control Factor 1.10

UPLIFT FOUND AT BEARINGS

BRG	UPLIFT	BRG	UPLIFT
	LBS		LBS
A	243	C	243

TL Defl	-0.58"	in F -D	L/474
LL Defl	-0.32"	in F -D	L/870
Hz Disp	LL	DL	TL
Jt C	0.21"	0.17"	0.38"
Shear // Grain	in A -G		0.22



Robbins Engineering, Inc./Online PlusSM APPROX. TRUSS WEIGHT: 129.4 LBS

DESIGNED AND MANUFACTURED BY
PIEDMONT LUMBER & TRUSS
 CALPELLA, CA.
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 FAX 485-7893

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Standard Loading

TC Live	20 psf
TC Dead	9 psf
BC Live	0 psf
BC Dead	7 psf
Total	36 psf
Lumber SI	1.25
Plate SI	1.25
Spacing	24.0 in.

Designer: JOHN THOMPSON
 Checker: JOHN THOMPSON
 Reviewer:
 Designed:
 Rev No:
 Rev Date:
 Run Date: 03/25/09
 Version: 23.0.052
 Drawing: AZ

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ALL PLATES CENTERED ON JOINTS EXCEPT:	CSI SIZE LUMBER	Brace truss as follows:	MAXIMUM REACTIONS:	Common Truss	NOTES:
JT PLATE SIZE	TOP 0.17 2x 4 DFL-#1B	O.C. From To	JT REACT ACT WID REQ WLD	Total Design Loads (plf)	Trusses Manufactured by:
A 3.00x 5.00 CNTR -0.00	BTM 0.28 2x 4 DFL-#1B	TC Cont. 0- 0- 0 20- 0- 0	LBS IN-SX IN-SX	TC 58@ A to 58@ B	PIEDMONT LUMBER, CALPELLA, C
C 3.00x 5.00 CNTR -0.00	WBS 0.16 2x 4 DFL-STAN	BC Cont. 0- 0- 0 20- 0- 0	A 797 3- 8 1- 8	TC 58@ B to 58@ C	Analysis Conforms To:
			C 797 3- 8 1- 8	BC 14@ A to 14@ C	IBC/IRC2006
	TC Fb=1.15 Fc=1.10 Ft=1.10			+ 4 Wind Load Case(s)	OH Loading
	BC Fb=1.10 Fc=1.10 Ft=1.10			+ 1 UBC Load Case	This truss has been designed



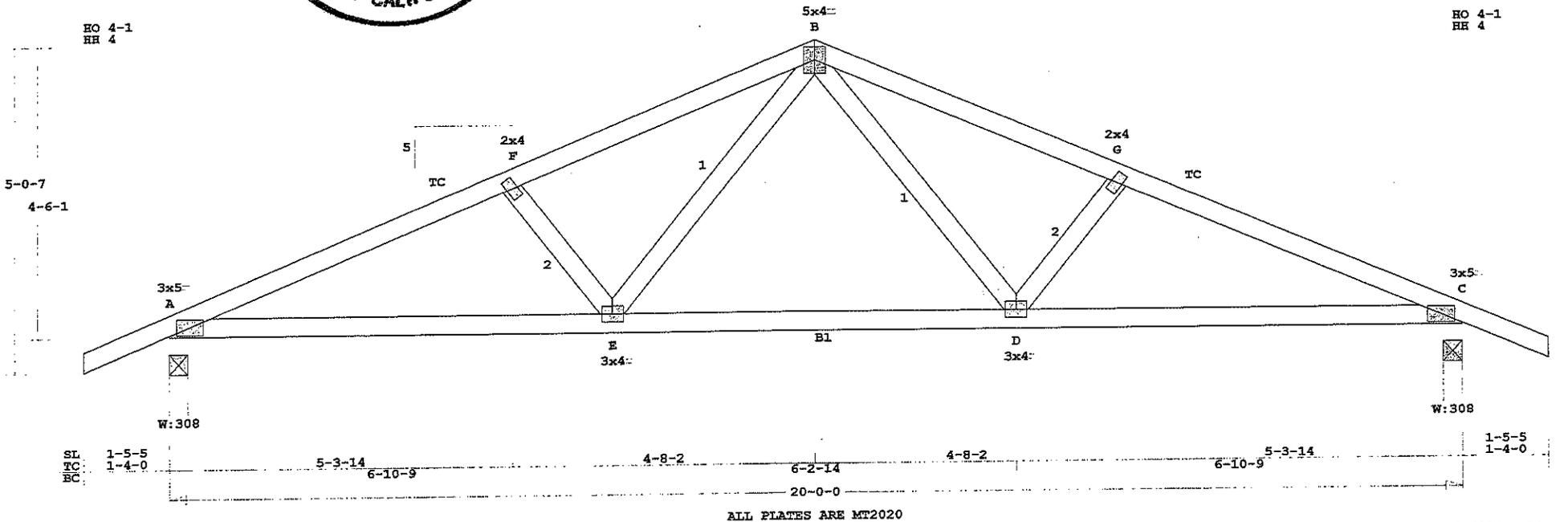
UPLIFT FOUND AT BEARINGS

BRG	UPLIFT	BRG	UPLIFT
	LBS		LBS
A	207	C	207

TL Defl -0.08" in E-D L/999
 LL Defl -0.04" in E-D L/999
 Shear // Grain in A-F 0.17

This truss has been designed for 20.0 psf LL on the B.C. in areas where a rectangle 3- 6- 0 tall by 2- 0- 0 wide will fit between the B.C. and any other member. Design checked for 10 psf non-concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-05
 Truss is designed as a Main Wind-Force Resistance System.
 Wind Speed: 85 mph
 Mean Roof Height: 20-0
 Exposure Category: D
 Occupancy Factor: 1.00
 Building Type: Enclosed
 Zone location: Exterior
 TC Dead Load: 5.0 psf
 BC Dead Load: 4.0 psf
 Max comp. force 1343 lbs
 Max tens. force 1244 lbs
 Quality Control Factor 1.10



ALL PLATES ARE MT2020

Scale: 0.421" = 1'

Robbins Engineering, Inc./Online PlusSM APPROX. TRUSS WEIGHT: 113.1 LBS

Camber: 2
 DESIGNED AND MANUFACTURED BY
PIEDMONT LUMBER & TRUSS
 CALPELLA, CA.
 PHONE 707-485-8781
 FAX 485-7893

READ AND UNDERSTAND ALL HANDLING AND ERECTION LITERATURE BEFORE INSTALLING THIS TRUSS. PIEDMONT LUMBER IS NOT THE ENGINEER OF RECORD ON THIS PROJECT. THIS IS A COMPONENT OF A STRUCTURE DESIGNED BY OTHERS. LIABILITY IS LIMITED TO THIS TRUSS ONLY.

Standard Loading	
TC Live	20 psf
TC Dead	9 psf
BC Live	0 psf
BC Dead	7 psf
Total	36 psf
Lumber SI	1.25
Plate SI	1.25
Spacing	24.0 in.

Designer: JOHN THOMPSON
 Checker: JOHN THOMPSON
 Reviewer:
 Designed:
 Rev No:
 Rev Date:
 Run Date: 03/25/09
 Version: 23.0.052
 Drawing: B1

ALL PLATES CENTERED
 ON JOINTS EXCEPT:
 JT PLATE SIZE X Y
 A 3.00x 4.00 CNTR -0.00
 B 5.00x 4.00 CNTR -1.44
 C 3.00x 4.00 CNTR -0.00

CSI SIZE LUMBER
 TOP 0.03 2x 4 DFL-#1B
 BTM 0.02 2x 4 DFL-#1B
 WBS 0.02 2x 4 DFL-STAN
 TC Fb=1.15 Fc=1.10 Ft=1.10
 BC Fb=1.10 Fc=1.10 Ft=1.10

Brace truss as follows:
 O.C. From To
 TC Cont. 0-0-0 20-0-0
 BC Cont. 0-0-0 20-0-0

MAXIMUM REACTIONS:
 JT REACT ACT WID REQ WID
 LBS IN-SK IN-SX
 * 1595 N/A N/A
 *CONTINUOUS BETWEEN A -C

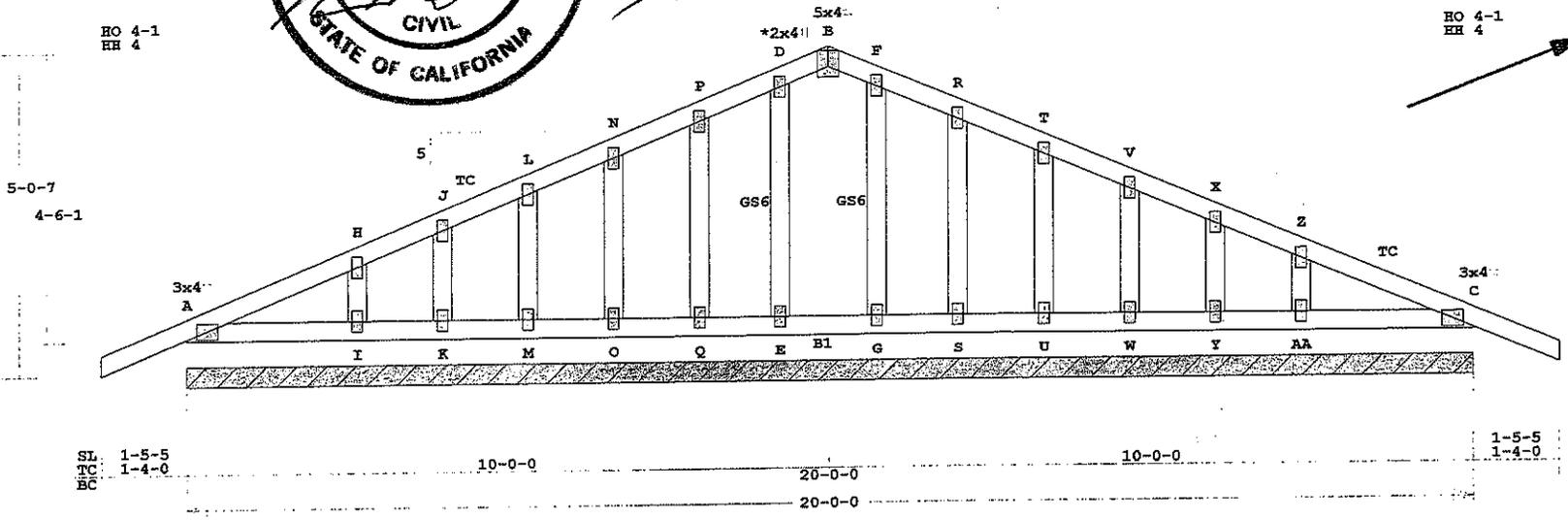
UPLIFT FOUND AT BEARINGS
 BRG UPLIFT BRG UPLIFT
 LBS LBS
 A-C 414
 TL Defl 0.00" in A -I L/999
 LL Defl 0.00" in A -I L/999
 Shear // Grain in A -B 0.08

Common Truss
 Total Design Loads (plf)
 TC 58@ A to 58@ B
 TC 58@ B to 58@ C
 BC 14@ A to 14@ C
 + 4 Wind Load Case(s)
 + 1 UBC Load Case
 + 1 Dead Load Case

NOTES:
 Trusses Manufactured by:
 PIEDMONT LUMBER, CALPELLA, C
 Analysis Conforms To:
 IBC/IRC2006
 OH Loading
 Design checked for 10 psf non-
 concurrent LL on BC.

Wind Loads - ANSI / ASCE 7-05
 Truss is designed as a Main
 Wind-Force Resistance System.
 Wind Speed: 85 mph
 Mean Roof Height: 20-0
 Exposure Category: D
 Occupancy Factor : 1.00
 Building Type: Enclosed
 Zone location: Exterior
 TC Dead Load : 5.0 psf
 BC Dead Load : 4.0 psf
 Max comp. force 120 Lbs
 Max tens. force 66 Lbs
 Quality Control Factor 1.10

FABRICATOR NOTES:
 1. TRUSS DESIGNED FOR THE TOP
 CHORD TO BE NOTCHED 1-1/2"
 DEEP BY 3-1/2"
 WIDE FOR OUTRIGGERS. CUTS
 MUST BE CLEAN WITHOUT
 EXCESSIVE OVERCUTTING.
 GABLE STUDS ATTACHED WITH
 CONNECTOR PLATES ONE FACE
 ONLY..



ALL PLATES ARE MT2020
 See Joint H For Typical Gable Plate Size and Placement

Robbins Engineering, Inc./Online PlusSM APPROX. TRUSS WEIGHT: 136.4 LBS
 Camber: 0
 DESIGNED AND MANUFACTURED BY
PIEDMONT LUMBER & TRUSS
 CALPELLA, CA.
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 FAX 485-7893

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Standard Loading	
TC Live	20 psf
TC Dead	9 psf
BC Live	0 psf
BC Dead	7 psf
Total	36 psf
Lumber SI	1.25
Plate SI	1.25
Spacing	24.0 in.

Scale: 0.348" = 1'
 Designer: JOHN THOMPSON
 Checker: JOHN THOMPSON
 Reviewer:
 Designed:
 Rev No:
 Rev Date:
 Run Date: 03/25/09
 Version: 23.0.052
 Drawing: **BZ**