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**Licensee Details****Licensee Information**

**Name:** **WALTER, EBE (Primary Name)**  
**PENNYWORTH HOMES INC (DBA Name)**  
**Main Address:** **679 BLACKSHEAR ROAD**  
**THOMASVILLE Georgia 31792**  
**County:** **OUT OF STATE**

**License Mailing:**

**LicenseLocation:** **679 BLACKSHEAR ROAD**  
**THOMASVILLE GA 31792**  
**County:** **OUT OF STATE**

**License Information**

**License Type:** **Certified Residential Contractor**  
**Rank:** **Cert Residential**  
**License Number:** **CRC058477**  
**Status:** **Current,Active**  
**Licensure Date:** **09/21/2001**  
**Expires:** **08/31/2006**

**Special**  
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|                                                          |              |                          |                                                                                            |          |                                                               |
|----------------------------------------------------------|--------------|--------------------------|--------------------------------------------------------------------------------------------|----------|---------------------------------------------------------------|
| Job<br>L169692                                           | Truss<br>CJ1 | Truss Type<br>ROOF TRUSS | Qty<br>4                                                                                   | Ply<br>1 | PENNYWORTH-JARRELL<br><small>Job Reference (optional)</small> |
| <small>Builders FirstSource, Lake City, Fl 32055</small> |              |                          | <small>6.200 s Jul 13 2005 Mittek Industries, Inc. Wed Jun 21 11:35:14 2006 Page 1</small> |          |                                                               |

Scale = 1/5/3

|               |                      |       |          |          |          |        |      |        |      |         |
|---------------|----------------------|-------|----------|----------|----------|--------|------|--------|------|---------|
| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc) | l/defl | L/d  | PLATES | GRIP |         |
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.07  | Vert(LL) | -0.00    | 2      | >999 | 240    | MT20 | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.01  | Vert(TL) | -0.00    | 2      | >999 | 180    |      |         |
| BCLL 10.0     | Rep Stress Incr      | YES   | WB 0.00  | Horz(TL) | -0.00    | 3      | n/a  | n/a    |      |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |          |        |      |        |      |         |
| Weight: 5 lb  |                      |       |          |          |          |        |      |        |      |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2

BOT CHORD 2 X 4 SYP No.2

**REACTIONS** (lb/size) 2=126/0-4-0, 4=14/Mechanical, 3=-4/Mechanical

Max Horz 2=54(load case 5)

Max Uplift 2=-105(load case 5), 3=-4(load case 1)

Max Grav 2=126(load case 1), 4=14(load case 1), 3=14(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23, 2-3=-27/6

BOT CHORD 2-4=0/0

**NOTES**

1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.

2) Refer to girder(s) for truss to truss connections.

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 2 and 4 lb uplift at joint 3.

**LOAD CASE(S)** Standard

**BRACING**

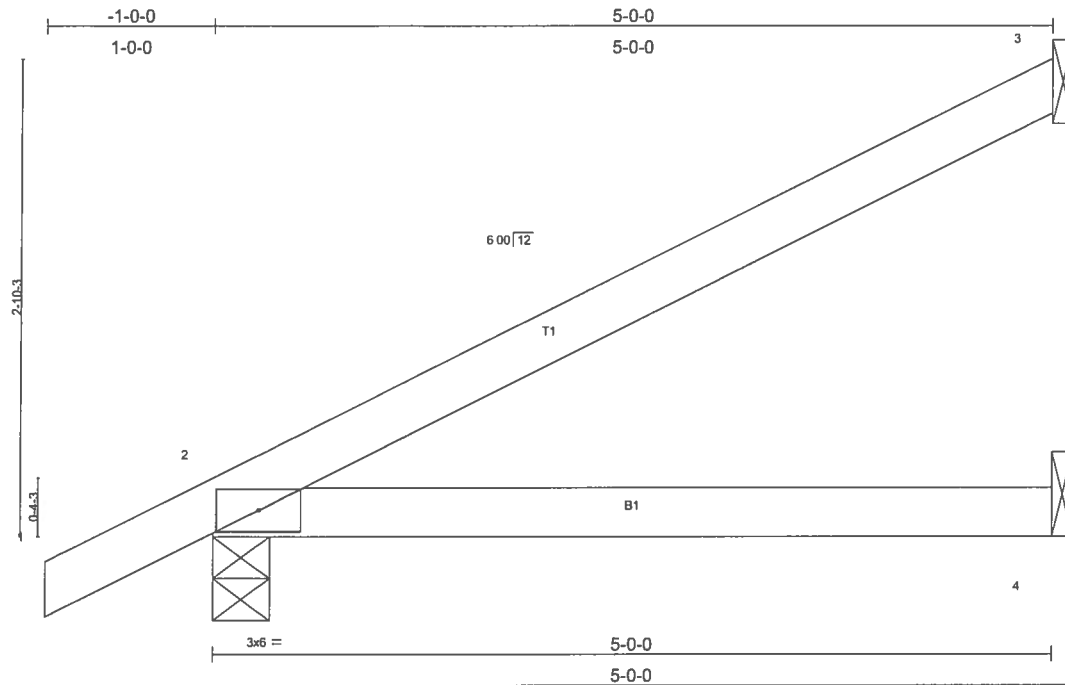
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.



|                |              |                          |          |          |                    |
|----------------|--------------|--------------------------|----------|----------|--------------------|
| Job<br>L169692 | Truss<br>CJ5 | Truss Type<br>ROOF TRUSS | Qty<br>4 | Ply<br>1 | PENNYWORTH-JARRELL |
|----------------|--------------|--------------------------|----------|----------|--------------------|

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)  
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| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.29  | Vert(LL) | -0.03 | 2-4   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.16  | Vert(TL) | -0.05 | 2-4   | >999   | 180 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.00  | Horz(TL) | -0.00 | 3     | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |       |       |        |     |               |         |
|               | Code FBC2004/TPI2002 |          |          |       |       |        |     | Weight: 18 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 3=121/Mechanical, 2=271/0-4-0, 4=72/Mechanical  
Max Horz 2=145(load case 5)  
Max Uplift 3=111(load case 5), 2=120(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23, 2-3=102/44  
BOT CHORD 2-4=0/0

**NOTES**

- 1) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 3 and 120 lb uplift at joint 2.

**LOAD CASE(S)** Standard

|                                           |              |                          |                          |          |                    |
|-------------------------------------------|--------------|--------------------------|--------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>EJ7 | Truss Type<br>ROOF TRUSS | Qty<br>7                 | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | Job Reference (optional) |          |                    |

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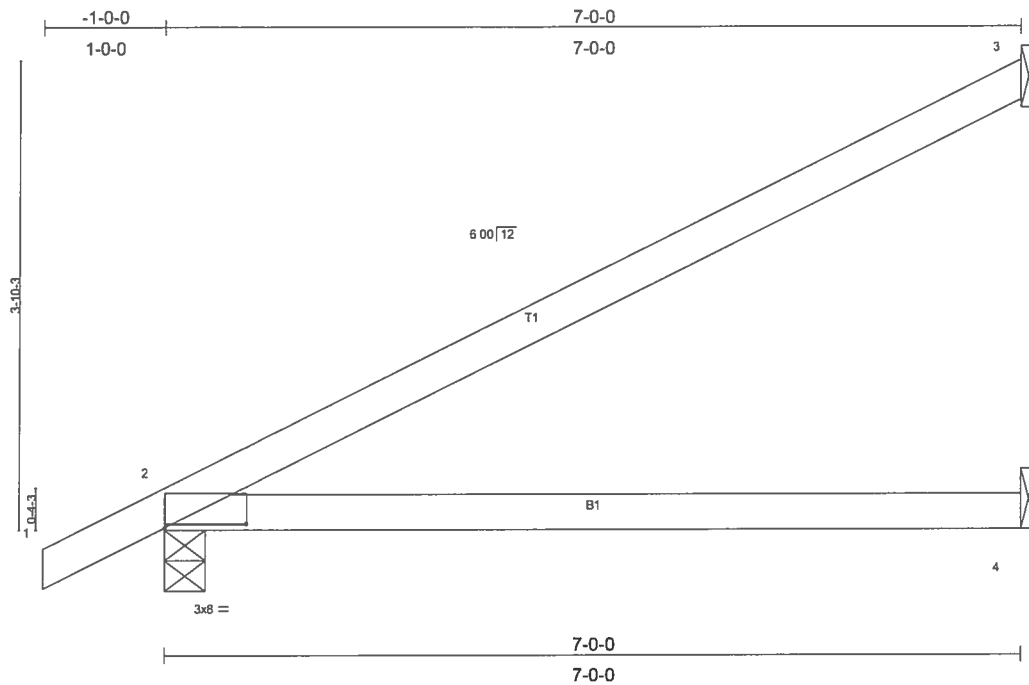


Plate Offsets (X,Y): [2-0-8-0-0-0-6]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.47  | Vert(LL) | -0.14 | 2-4   | >576   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.39  | Vert(TL) | -0.23 | 2-4   | >349   | 180 |               |         |
| BCLL 10.0     | Rep Stress Incr      | YES   | WB 0.00  | Horz(TL) | -0.00 | 3     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     | Weight: 24 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS**

(lb/size) 3=168/Mechanical, 2=353/0-4-0, 4=111/Mechanical  
Max Horz 2=192(load case 5)  
Max Uplift 3=142(load case 5), 2=138(load case 5), 4=1(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23, 2-3=124/60  
BOT CHORD 2-4=0/0

**NOTES**

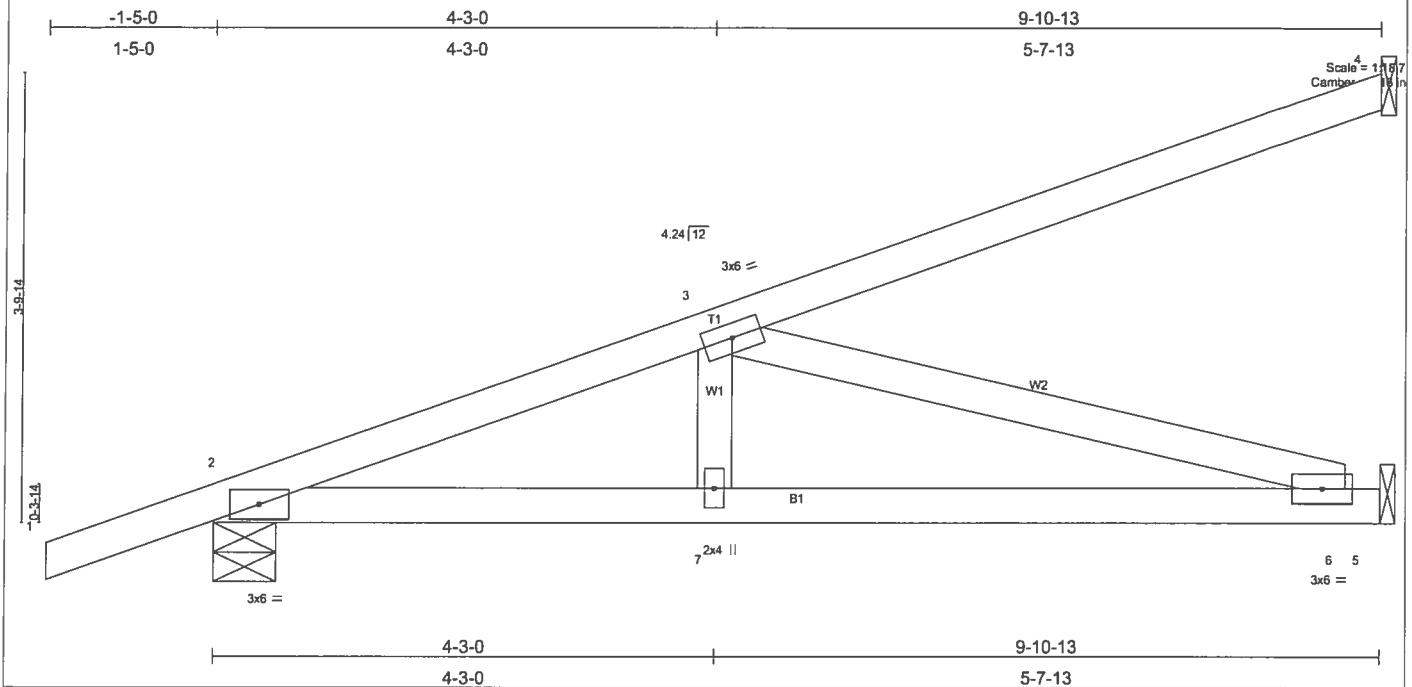
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 3, 138 lb uplift at joint 2 and 1 lb uplift at joint 4.

LOAD CASE(S) Standard

|                          |              |                          |          |          |                    |
|--------------------------|--------------|--------------------------|----------|----------|--------------------|
| Job<br>L169692           | Truss<br>HJ9 | Truss Type<br>ROOF TRUSS | Qty<br>2 | Ply<br>1 | PENNYWORTH-JARRELL |
| Job Reference (optional) |              |                          |          |          |                    |

Builders FirstSource, Lake City, FL 32055

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| LOADING (psf) | SPACING              | CSI      | DEFL                        | PLATES        | GRIP    |
|---------------|----------------------|----------|-----------------------------|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.60  | in (loc) l/defl L/d         | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.58  | Vert(LL) -0.10 6-7 >999 240 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.50  | Vert(TL) -0.16 6-7 >700 180 |               |         |
| BCDL 5.0      | Rep Stress Incr NO   | (Matrix) | Horz(TL) 0.01 5 n/a n/a     |               |         |
|               | Code FBC2004/TPI2002 |          |                             | Weight: 43 lb |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-9-15 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 9-6-9 oc bracing.

**REACTIONS** (lb/size) 4=266/Mechanical, 2=442/0-6-7, 5=395/Mechanical  
 Max Horz 2=237(load case 2)  
 Max Uplift 4=-228(load case 2), 2=-182(load case 2), 5=-87(load case 2)

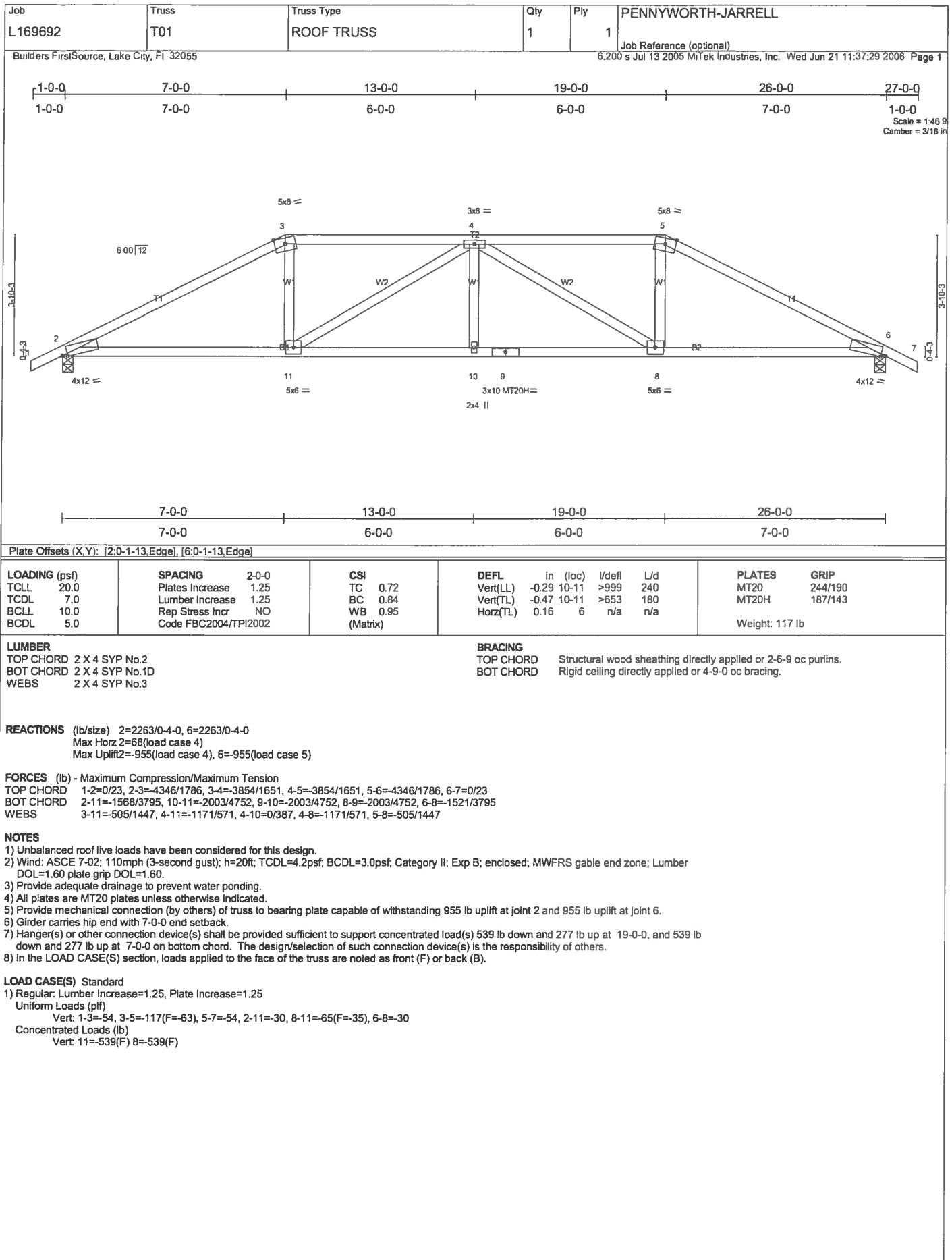
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/25, 2-3=-963/219, 3-4=-104/65  
 BOT CHORD 2-7=-410/901, 6-7=-410/901, 5-6=0/0  
 WEBS 3-7=0/209, 3-6=-936/427

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 4, 182 lb uplift at joint 2 and 87 lb uplift at joint 5.
- 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert 1-2=-54  
 Trapezoidal Loads (plf)  
 Vert 2=-4(F=25, B=25)-to-4=-134(F=-40, B=-40), 2=0(F=15, B=15)-to-5=-74(F=-22, B=-22)



|                                           |              |                          |                                                                            |          |                    |
|-------------------------------------------|--------------|--------------------------|----------------------------------------------------------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>T02 | Truss Type<br>ROOF TRUSS | Qty<br>1                                                                   | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | 6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Jun 21 11:37:41 2006 Page 1 |          |                    |

|       |       |        |        |         |        |        |
|-------|-------|--------|--------|---------|--------|--------|
| 1-0-0 | 4-9-4 | 9-0-0  | 17-0-0 | 21-2-12 | 26-0-0 | 27-0-0 |
| 1-0-0 | 4-9-4 | 4-2-12 | 8-0-0  | 4-2-12  | 4-9-4  | 1-0-0  |

Scale = 1/4" = 1'-0"  
Camber = 1/8" in

|                                                                        |                                                                                                                         |
|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Plate Offsets (X,Y): [2-0-8-0,0-0-6], [7-0-8-0,0-0-6]                  |                                                                                                                         |
| <b>LOADING (psf)</b><br>TCCL 20.0<br>TCCL 7.0<br>BCCL 10.0<br>BCDL 5.0 | <b>SPACING</b> 2-0-0<br>Plates Increase 1.25<br>Lumber Increase 1.25<br>Rep Stress Incr YES<br>Code FBC2004/TPI2002     |
| <b>CSI</b><br>TC 0.44<br>BC 0.52<br>WB 0.11<br>(Matrix)                | <b>DEFL</b> in (loc) l/def L/d<br>Vert(LL) -0.20 7-9 >999 240<br>Vert(TL) -0.33 7-9 >935 180<br>Horz(TL) 0.07 7 n/a n/a |
| <b>PLATES</b> MT20<br><b>GRIP</b> 244/190<br>Weight: 124 lb            |                                                                                                                         |

|                                                                                              |                                                                                                                                                                                           |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2<br>BOT CHORD 2 X 4 SYP No.2<br>WEBS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 8-0-10 oc bracing.<br>WEBS 1 Row at midpt 5-11 |
|----------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

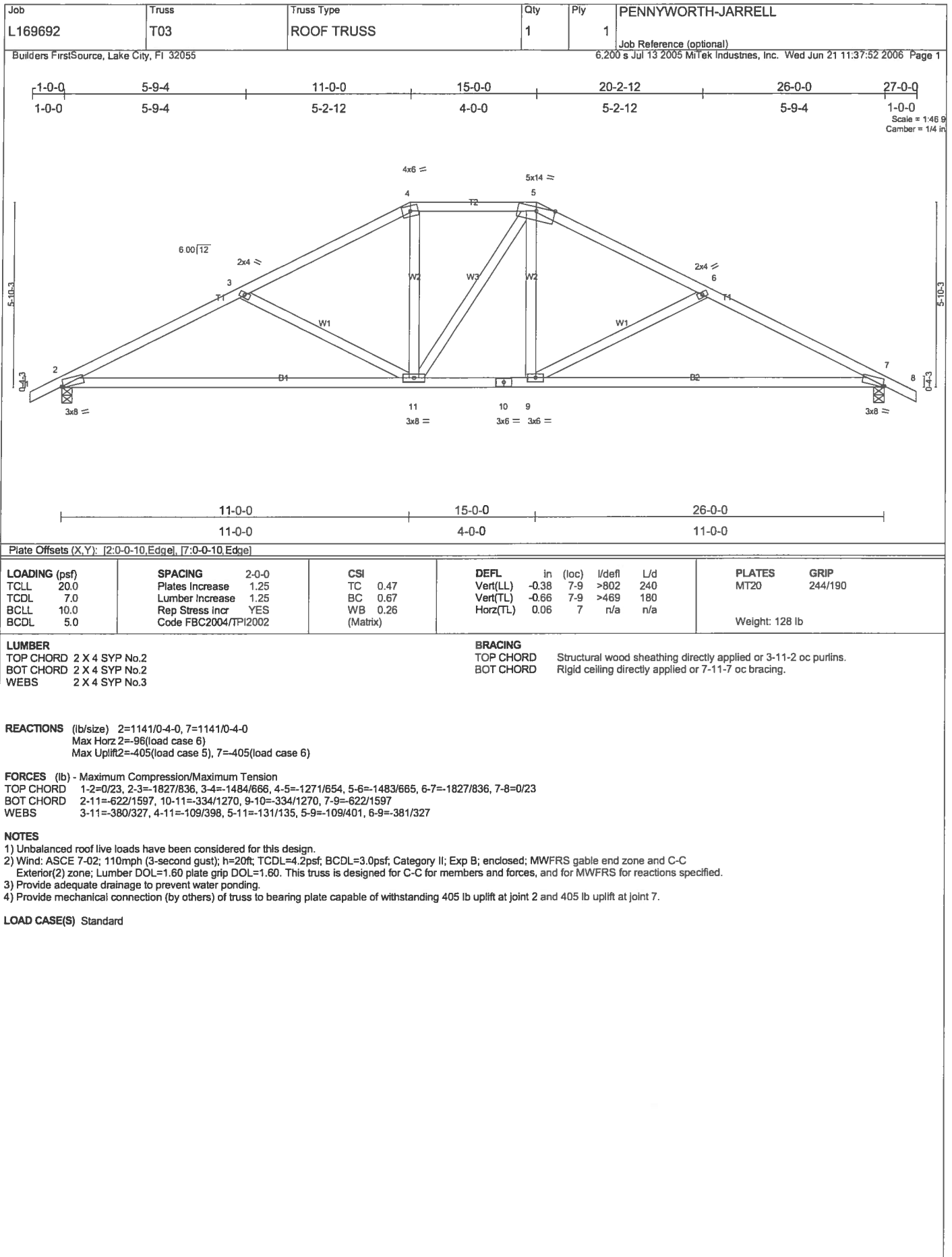
  

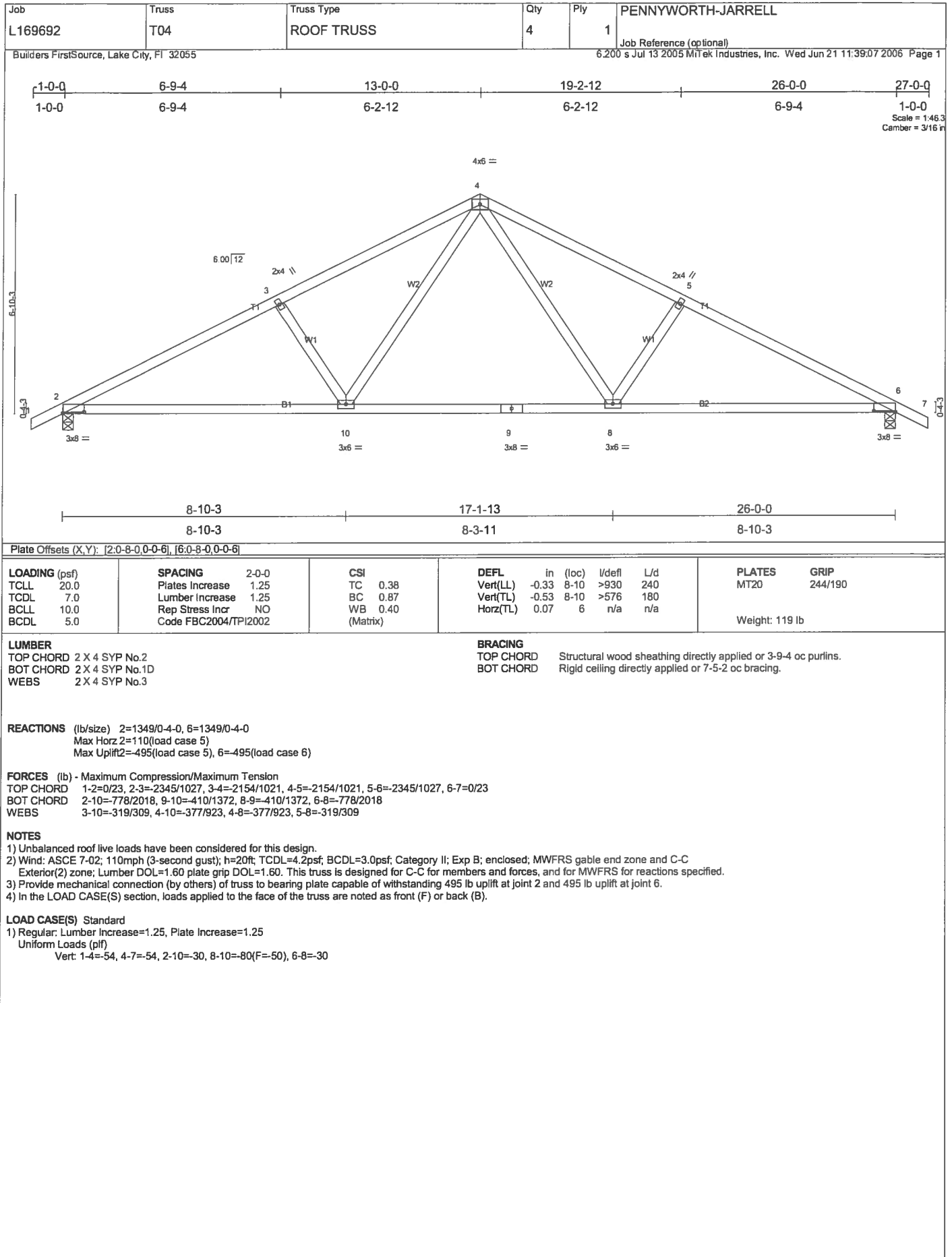
**REACTIONS** (lb/size) 2=1141/0-4-0, 7=1141/0-4-0  
 Max Horz 2=82(load case 5)  
 Max Uplift 2=-391(load case 5), 7=-391(load case 6)

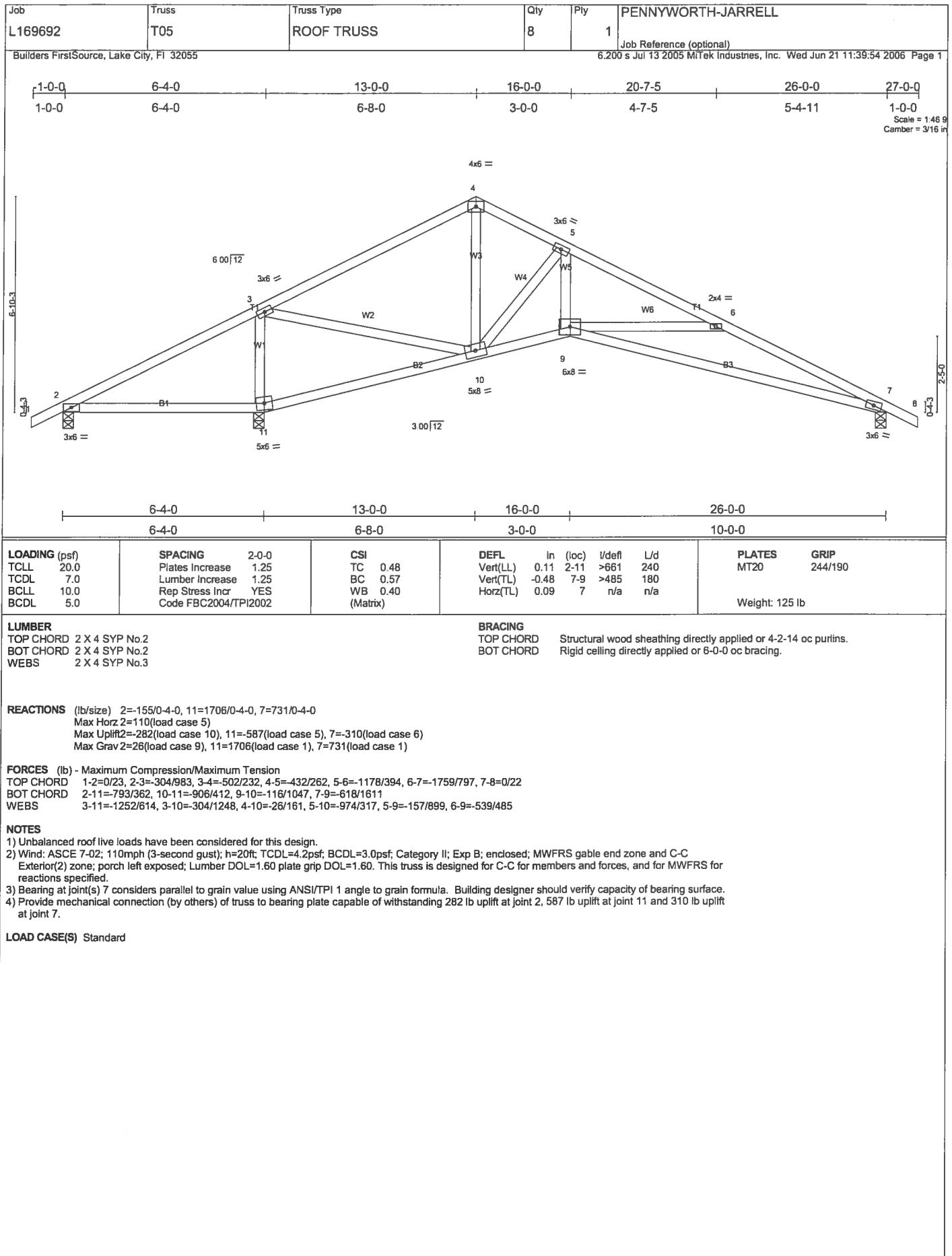
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/23, 2-3=-1880/820, 3-4=-1657/716, 4-5=-1460/701, 5-6=-1657/716, 6-7=-1880/820, 7-8=0/23  
 BOT CHORD 2-11=-616/1636, 10-11=-433/1459, 9-10=-433/1459, 7-9=-616/1636  
 WEBS 3-11=-213/209, 4-11=-47/356, 5-11=-127/128, 5-9=-47/357, 6-9=-213/208

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCCL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 3) Provide adequate drainage to prevent water ponding.  
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 391 lb uplift at joint 2 and 391 lb uplift at joint 7.

**LOAD CASE(S)** Standard







|                                           |              |                          |                                                                            |          |                    |
|-------------------------------------------|--------------|--------------------------|----------------------------------------------------------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>T06 | Truss Type<br>ROOF TRUSS | Qty<br>1                                                                   | Ply<br>2 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | 6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Jun 21 11:42:38 2006 Page 1 |          |                    |

Scale = 1/4" = 1'-0"

Camber = 1/16"

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Plate Offsets (X,Y): [1:0-3-0,0-2-9], [5:0-3-0,0-2-9] |                             |
| LOADING (psf)                                         | SPACING 2-0-0               |
| TCLL 20.0                                             | Plates Increase 1.25        |
| TCCL 7.0                                              | Lumber Increase 1.25        |
| BCCL 10.0                                             | Rep Stress Incr NO          |
| BCDL 5.0                                              | Code FBC2004/TPI2002        |
| CSI                                                   | DEFL                        |
| TC 0.39                                               | in (loc) l/defl L/d         |
| BC 0.67                                               | Vert(LL) -0.13 6-8 >999 240 |
| WB 0.70                                               | Vert(TL) -0.21 6-8 >999 180 |
| (Matrix)                                              | Horz(TL) 0.03 5 n/a n/a     |
|                                                       | Weight: 285 lb              |

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| LUMBER                    | BRACING                                                                     |
| TOP CHORD 2 X 4 SYP No.2  | TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins. |
| BOT CHORD 2 X 6 SYP No.1D | BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.               |
| WEBS 2 X 4 SYP No.3       |                                                                             |

**REACTIONS** (lb/size) 1=-394/0-4-0, 5=3864/0-4-0, 9=5156/0-4-0

Max Horz 1=-94(load case 2)

Max Uplift 1=-497(load case 9), 5=-1432(load case 5), 9=-1977(load case 4)

Max Grav 1=126(load case 2), 5=3864(load case 1), 9=5156(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-400/1069, 2-3=-3074/1183, 3-4=-3072/1161, 4-5=-6347/2345

BOT CHORD 1-9=-918/441, 8-9=-918/441, 7-8=-2021/5626, 6-7=-2021/5626, 5-6=-2021/5626

WEBS 2-9=-3718/1450, 2-8=-1365/3900, 3-8=-822/2344, 4-8=-3249/1328, 4-6=-819/2441

**NOTES**

- 2-ply truss to be connected together with 0.131"x3" Nails as follows:  
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.  
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.  
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 497 lb uplift at joint 1, 1432 lb uplift at joint 5 and 1977 lb uplift at joint 9.
- Girder carries tie-in span(s): 18-0-0 from 6-2-0 to 26-0-0

**LOAD CASE(S)** Standard

1) Regular: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 1-9=-30, 5-9=-359(F=-329)

|                                           |              |                          |           |          |                          |
|-------------------------------------------|--------------|--------------------------|-----------|----------|--------------------------|
| Job<br>L169692                            | Truss<br>T07 | Truss Type<br>ROOF TRUSS | Qty<br>10 | Ply<br>1 | PENNYWORTH-JARRELL       |
| Builders FirstSource, Lake City, FL 32055 |              |                          |           |          | Job Reference (optional) |

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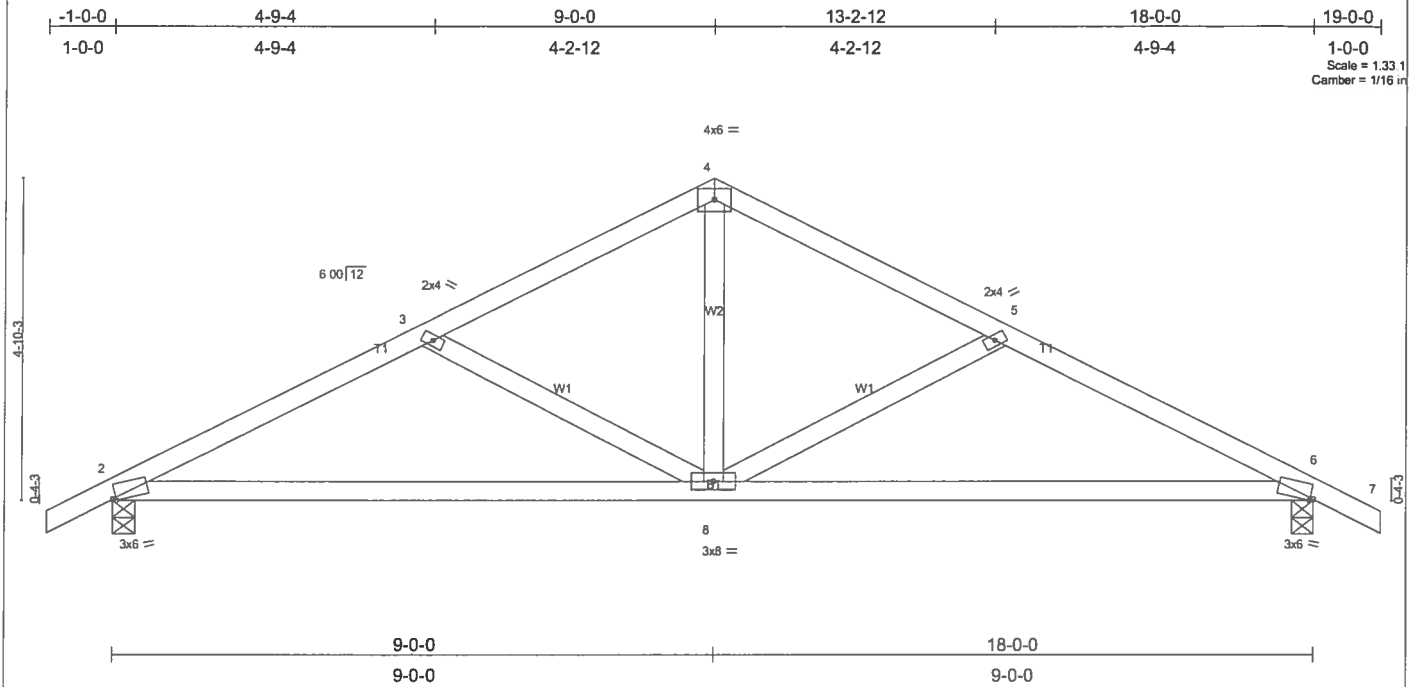


Plate Offsets (X,Y): [2:0-0-10,Edge], [6:0-0-10,Edge]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES | GRIP          |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|--------|---------------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.24  | Vert(LL) | -0.13 | 6-8   | >999   | 240 | MT20   | 244/190       |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.49  | Vert(TL) | -0.22 | 6-8   | >973   | 180 |        |               |
| BCLL 10.0     | Rep Stress Incr      | YES   | WB 0.18  | Horz(TL) | 0.03  | 6     | n/a    | n/a |        |               |
| BCDL 5.0      | Code FBC2004/TP12002 |       | (Matrix) |          |       |       |        |     |        |               |
|               |                      |       |          |          |       |       |        |     |        | Weight: 81 lb |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=805/0-4-0, 6=805/0-4-0  
 Max Horz 2=-82(load case 6)  
 Max Uplift 2=-308(load case 5), 6=-308(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/23, 2-3=-1191/547, 3-4=-931/423, 4-5=-931/423, 5-6=-1191/547, 6-7=0/23  
 BOT CHORD 2-8=-377/1030, 6-8=-377/1030  
 WEBS 3-8=-299/247, 4-8=-180/561, 5-8=-299/247

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 308 lb uplift at joint 2 and 308 lb uplift at joint 6.

LOAD CASE(S) Standard

|                          |                |                          |          |          |                    |
|--------------------------|----------------|--------------------------|----------|----------|--------------------|
| Job<br>L169692           | Truss<br>T07AG | Truss Type<br>ROOF TRUSS | Qty<br>1 | Ply<br>1 | PENNYWORTH-JARRELL |
| Job Reference (optional) |                |                          |          |          |                    |

Builders FirstSource, Lake City, FL 32055

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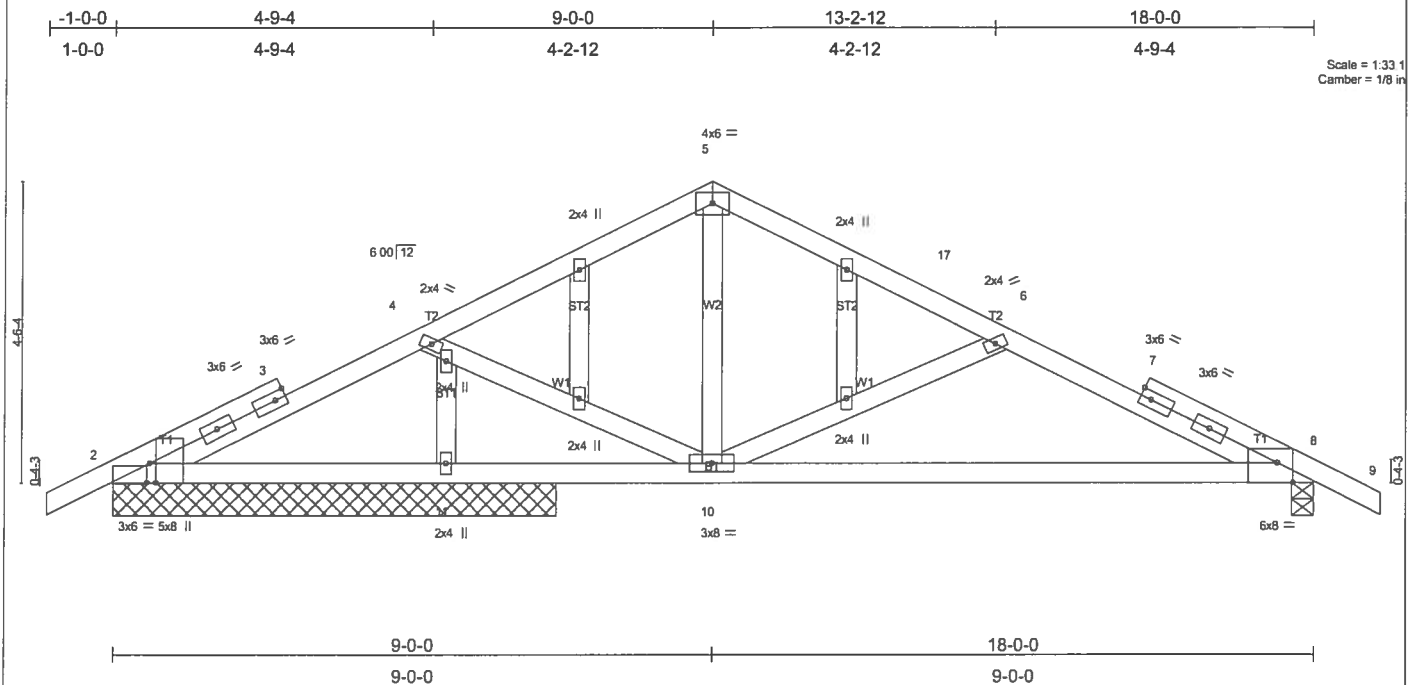


Plate Offsets (X,Y): [2:0-3-8,Edge], [2:0-0-8,Edge], [8:0-2-13,Edge]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in (loc) | l/def | L/d  | PLATES | GRIP          |
|---------------|----------------------|-------|----------|----------|----------|-------|------|--------|---------------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.55  | Vert(LL) | -0.17    | 8-10  | >883 | 240    | MT20          |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.52  | Vert(TL) | -0.29    | 8-10  | >527 | 180    | 244/190       |
| BCLL 10.0     | Rep Stress Incr      | NO    | WB 0.21  | Horz(TL) | 0.04     | 8     | n/a  | n/a    |               |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |          |       |      |        | Weight: 95 lb |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 OTHERS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 4-3-5 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 7-9-2 oc bracing.

**REACTIONS** (lb/size) 2=868/6-8-0, 8=894/0-4-0, 11=173/6-8-0  
 Max Horz 2=77(load case 5)  
 Max Uplift 2=367(load case 5), 8=359(load case 6), 11=11(load case 5)

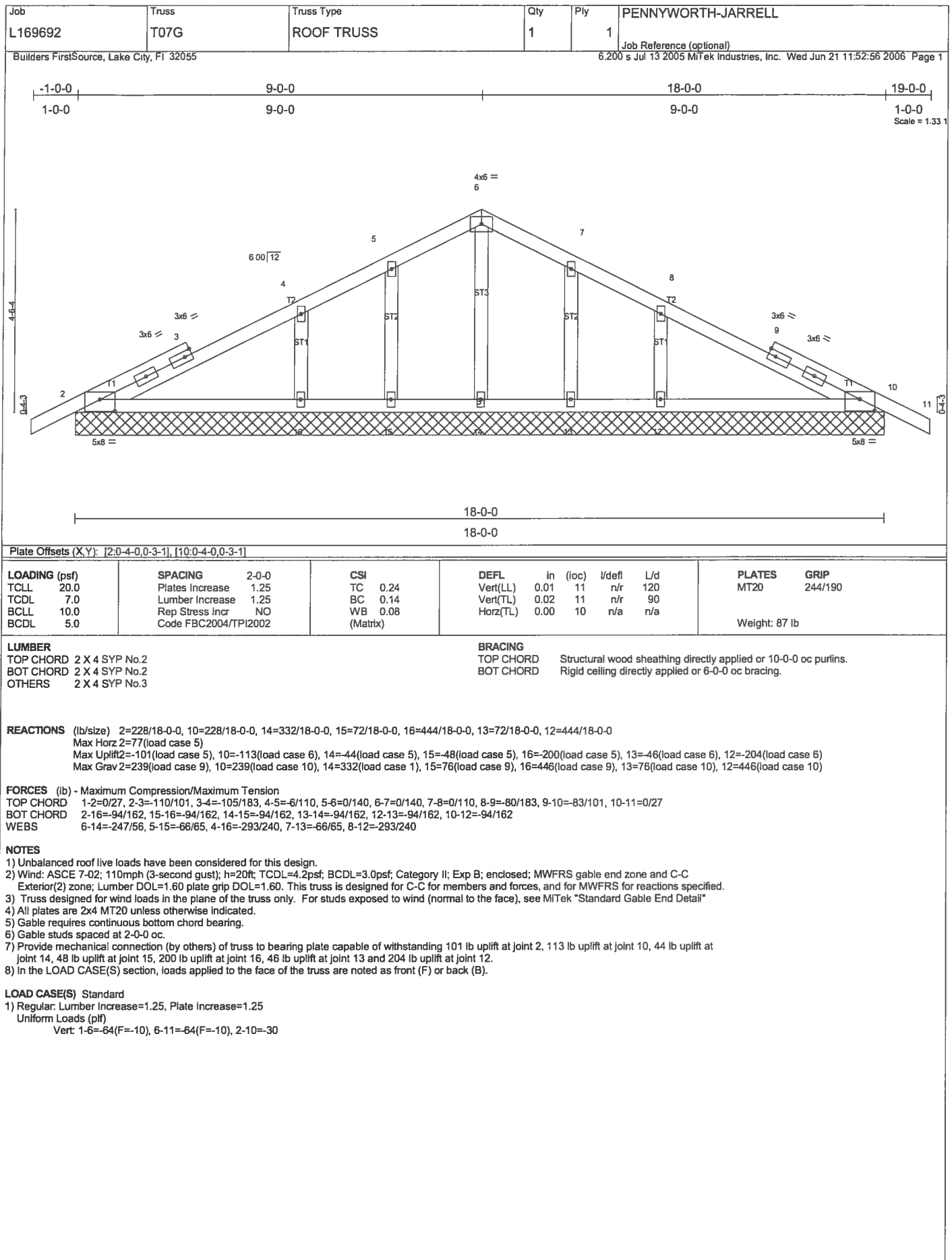
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/27, 2-3=-1617/785, 3-4=-1552/787, 4-5=-1175/553, 5-17=-1019/546, 6-17=-1158/546, 6-7=-1500/746, 7-8=-1548/740, 8-9=0/23  
 BOT CHORD 2-11=-634/1437, 10-11=-634/1437, 8-10=-587/1399  
 WEBS 4-10=-516/374, 5-10=-229/589, 6-10=-472/322

**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf, BCDL=3.0psf, Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 2, 359 lb uplift at joint 8 and 11 lb uplift at joint 11.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-4=-64(F=-10), 4-5=-89(F=-35), 5-17=-89(F=-35), 9-17=-54, 2-8=-30



|                                           |              |                          |                          |          |                    |
|-------------------------------------------|--------------|--------------------------|--------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>T08 | Truss Type<br>ROOF TRUSS | Qty<br>5                 | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | Job Reference (optional) |          |                    |

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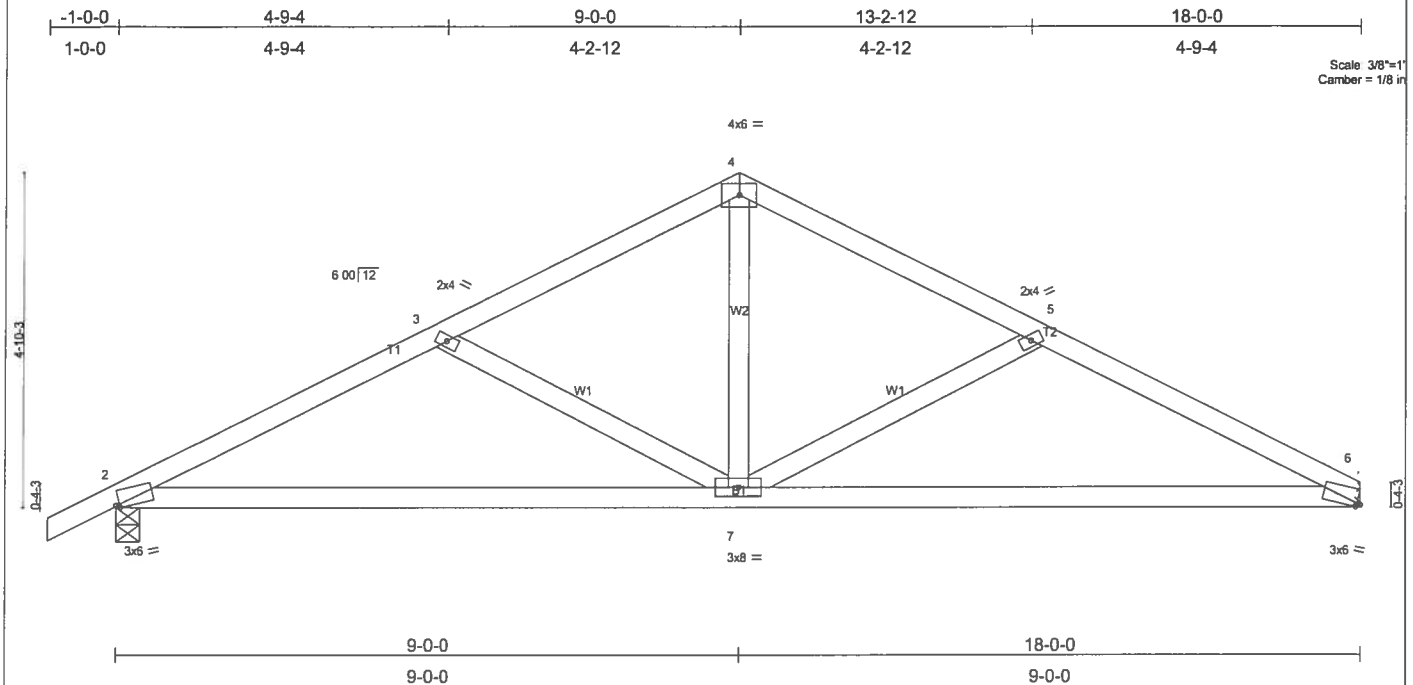


Plate Offsets (X,Y): [2:0-0-10,Edge], [6:0-0-10,Edge]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | In    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.27  | Vert(LL) | -0.14 | 6-7   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.51  | Vert(TL) | -0.24 | 6-7   | >877   | 180 |               |         |
| BCLL 10.0     | Rep Stress Incr      | YES   | WB 0.19  | Horz(TL) | 0.03  | 6     | n/a    | n/a |               |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |               |         |
|               |                      |       |          |          |       |       |        |     | Weight: 79 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 9-3-15 oc bracing.

**REACTIONS**

(lb/size) 6=744/Mechanical, 2=811/0-4-0  
 Max Horz 2=93(load case 5)  
 Max Uplift 6=-242(load case 6), 2=-310(load case 5)

**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/23, 2-3=-1206/559, 3-4=-947/435, 4-5=-948/436, 5-6=-1225/574  
 BOT CHORD 2-7=-425/1043, 6-7=-446/1066  
 WEBS 3-7=-299/247, 4-7=-194/578, 5-7=-324/270

**NOTES**

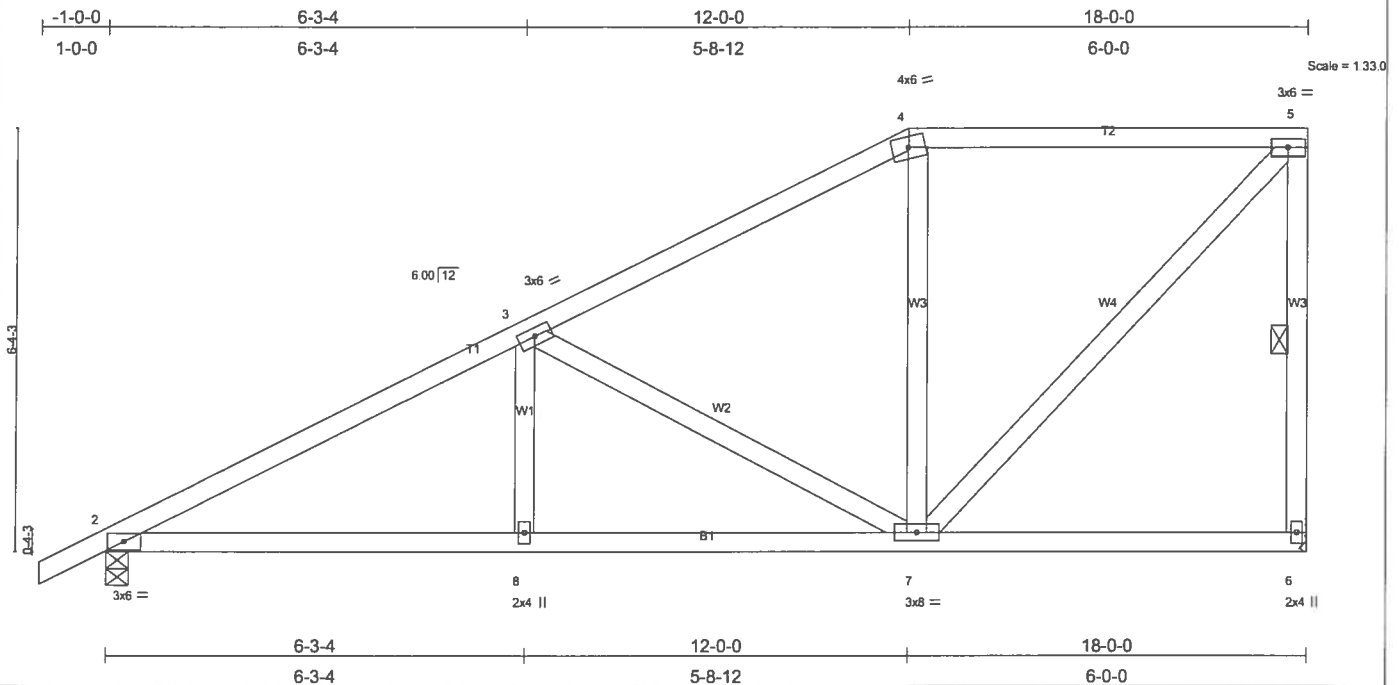
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-02: 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 6 and 310 lb uplift at joint 2.

LOAD CASE(S) Standard

|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | PENNYWORTH-JARRELL       |
| L169692 | T09   | ROOF TRUSS | 1   | 1   | Job Reference (optional) |

Builders FirstSource, Lake City, FL 32055

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| LOADING (psf) | SPACING              | CSI      | DEFL                        | PLATES         | GRIP    |
|---------------|----------------------|----------|-----------------------------|----------------|---------|
| TCLL 20.0     | 2'-0"                | TC 0.35  | In (loc) l/defl L/d         | MT20           | 244/190 |
| TCCL 7.0      | Plates Increase 1.25 | BC 0.38  | Vert(LL) -0.07 2-8 >999 240 |                |         |
| BCCL 10.0     | Lumber Increase 1.25 | WB 0.45  | Vert(TL) -0.11 2-8 >999 180 |                |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) | Horz(TL) 0.02 6 n/a n/a     |                |         |
|               | Code FBC2004/TPI2002 |          |                             | Weight: 100 lb |         |

**LUMBER**

TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3

**BRACING**

TOP CHORD Structural wood sheathing directly applied or 5-5-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.  
 WEBS 1 Row at midpt 5-6

**REACTIONS**

(lb/size) 6=741/Mechanical, 2=808/0-4-0  
 Max Horz 2=309(load case 5)  
 Max Uplift 6=-257(load case 5), 2=-287(load case 5)

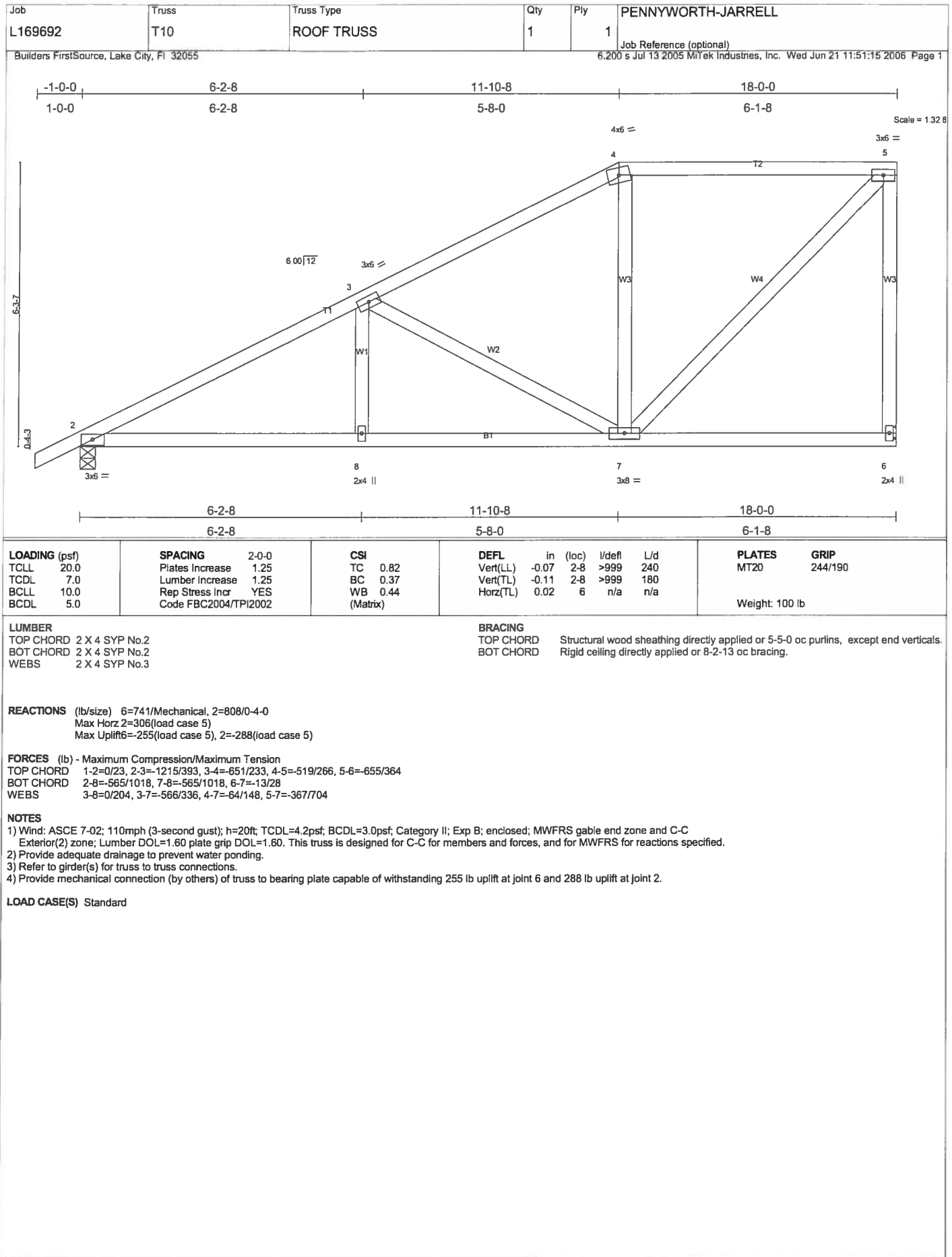
**FORCES**

(lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/23, 2-3=-1213/389, 3-4=-640/228, 4-5=-508/261, 5-6=-657/365  
 BOT CHORD 2-8=-565/1016, 7-8=-565/1016, 6-7=-12/26  
 WEBS 3-8=0/207, 3-7=-575/341, 4-7=-67/150, 5-7=-367/702

**NOTES**

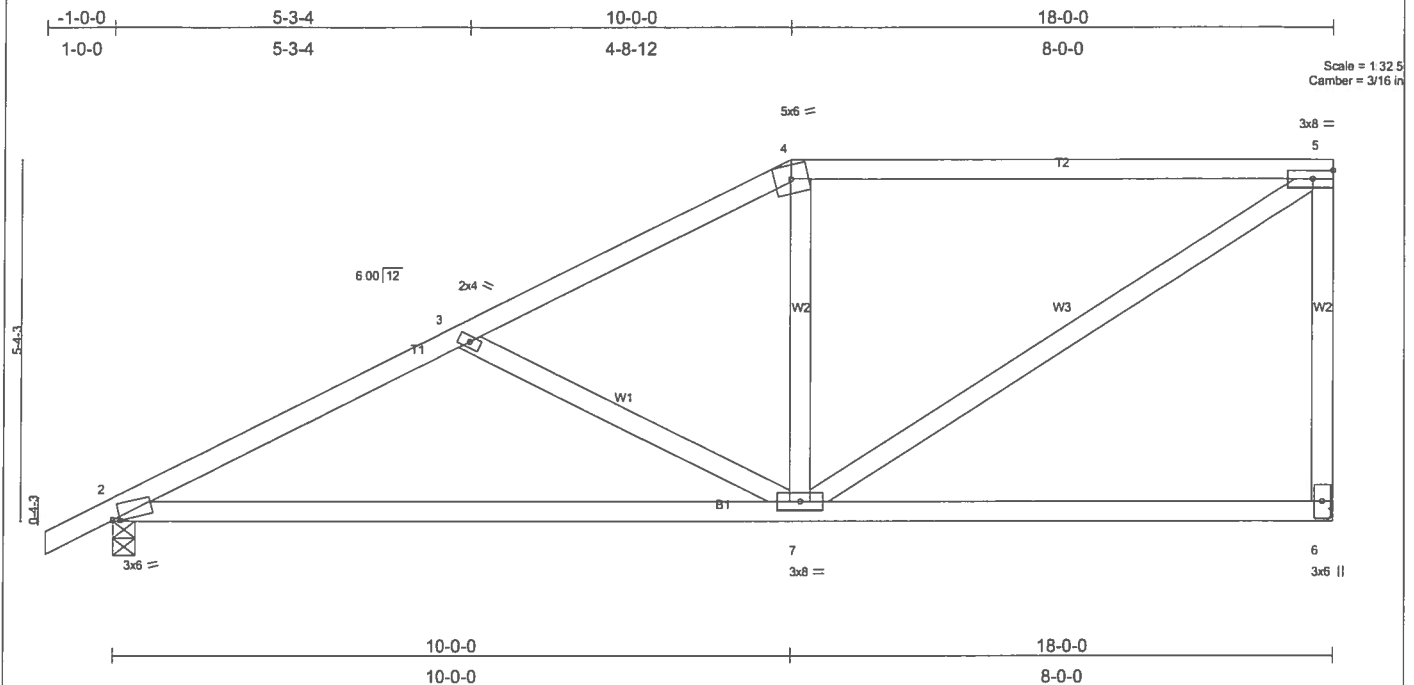
- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 257 lb uplift at joint 6 and 287 lb uplift at joint 2.

LOAD CASE(S) Standard



|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | PENNYWORTH-JARRELL       |
| L169692 | T11   | ROOF TRUSS | 1   | 1   | Job Reference (optional) |

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| Plate Offsets (X,Y): [2-0-1-5-0-0-7] |      |                      |      |          |      |          |           |      |               |             |  |
|--------------------------------------|------|----------------------|------|----------|------|----------|-----------|------|---------------|-------------|--|
| LOADING (psf)                        |      | SPACING 2-0-0        |      | CSI      |      | DEFL     |           |      |               | PLATES GRIP |  |
| TCLL                                 | 20.0 | Plates Increase      | 1.25 | TC       | 0.92 | in (loc) | l/defl    | L/d  | MT20          | 244/190     |  |
| BCDL                                 | 7.0  | Lumber Increase      | 1.25 | BC       | 0.49 | Vert(LL) | -0.23 2-7 | >922 |               |             |  |
| BCLL                                 | 10.0 | Rep Stress Incr      | YES  | WB       | 0.55 | Vert(TL) | -0.39 2-7 | >541 |               |             |  |
| BCDL                                 | 5.0  | Code FBC2004/TP12002 |      | (Matrix) |      | Horz(TL) | 0.02 6    | n/a  |               |             |  |
|                                      |      |                      |      |          |      |          |           |      | Weight: 92 lb |             |  |

## LUMBER

TOP CHORD 2 X 4 SYP No.2  
BOT CHORD 2 X 4 SYP No.2  
WEBS 2 X 4 SYP No.3

## BRACING

|           |                                                                                       |
|-----------|---------------------------------------------------------------------------------------|
| TOP CHORD | Structural wood sheathing directly applied or 5-3-4 oc purlins, except end verticals. |
| BOT CHORD | Rigid ceiling directly applied or 8-3-10 oc bracing.                                  |

## REACTIONS

(lb/size) 6=741/Mechanical, 2=808/0-4-0  
Max Horz 2=263(load case 5)  
Max Uplift 6=-251(load case 4), 2=-291(load case 5)

**FORCES** (lb)

TOP CHORD 1-2=0/23, 2-3=-1140/448, 3-4=-858/313, 4-5=-722/339, 5-6=-642/348  
BOT CHORD 2-7=-577/984, 6-7=-29/61  
WEBS 3-7=-294/263, 4-7=-7/145, 5-7=-372/791

## NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCFL=4.2psf, BCFL=3.0psf, Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Provide adequate drainage to prevent water ponding.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 251 lb uplift at joint 6 and 291 lb uplift at joint 2.

LOAD CASE(S) Standard

**JUNE 21, 2006 TRUSS DESIGN ENGINEER:**  
**THOMAS E. MILLER PE 56877, BYRON K. ANDERSON PE 60987**  
**STRUCTURAL ENGINEERING AND INSPECTIONS, INC. EB 9196**  
**16105 N. FLORIDA AVE. STE B, LUTZ, FL 33549**

|                                           |              |                          |                          |          |                    |
|-------------------------------------------|--------------|--------------------------|--------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>T12 | Truss Type<br>ROOF TRUSS | Qty<br>1                 | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | Job Reference (optional) |          |                    |

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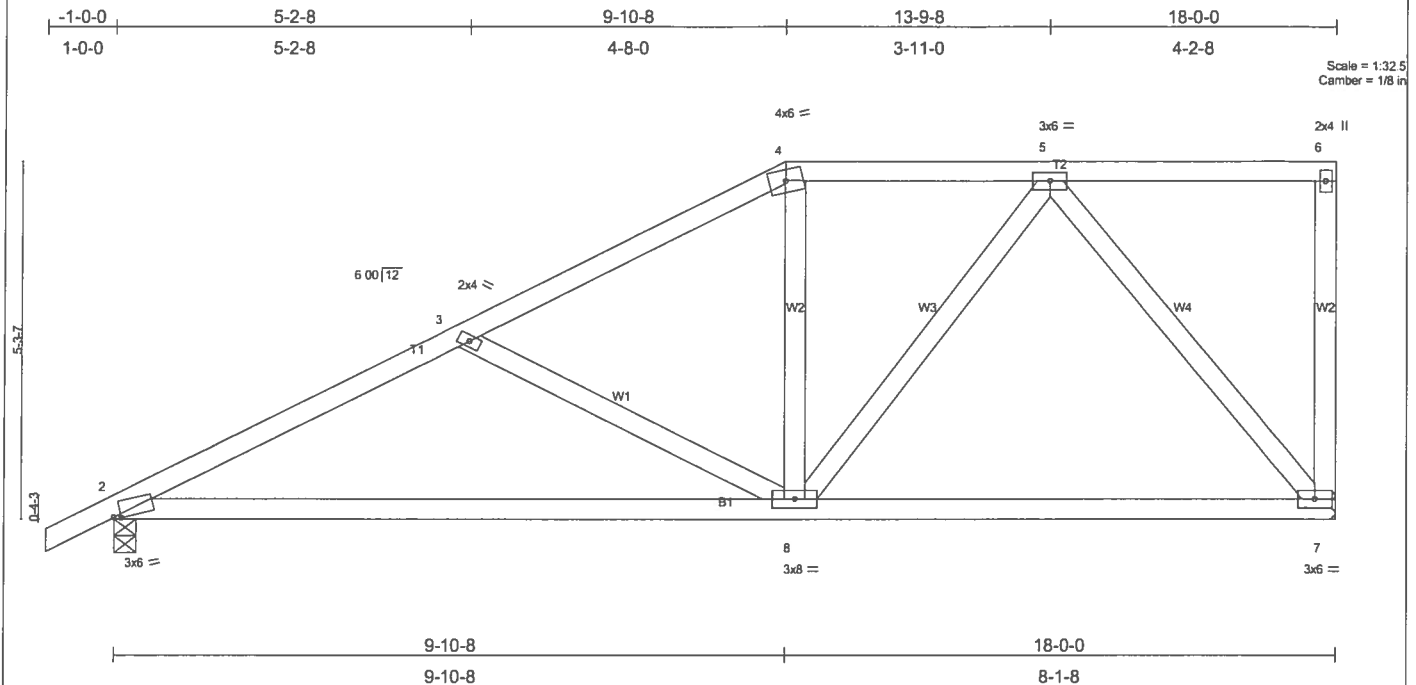


Plate Offsets (X,Y): [2:0-1-5,0-0-7]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES | GRIP    |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|--------|---------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.32  | Vert(LL) | -0.20 | 2-8   | >999   | 240 | MT20   | 244/190 |
| TCCL 7.0      | Lumber Increase      | 1.25  | BC 0.50  | Vert(TL) | -0.35 | 2-8   | >605   | 180 |        |         |
| BCCL 10.0     | Rep Stress Incr      | YES   | WB 0.51  | Horz(TL) | 0.02  | 7     | n/a    | n/a |        |         |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |       |       |        |     |        |         |
| Weight: 97 lb |                      |       |          |          |       |       |        |     |        |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 8-2-13 oc bracing.

**REACTIONS** (lb/size) 7=741/Mechanical, 2=808/0-4-0  
 Max Horz 2=260(load case 5)  
 Max Uplift 7=-252(load case 4), 2=-291(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/23, 2-3=-1160/460, 3-4=-853/308, 4-5=-708/325, 5-6=-27/3, 6-7=-106/72  
 BOT CHORD 2-8=-588/1005, 7-8=-230/465  
 WEBS 3-8=-338/294, 4-8=0/131, 5-8=-158/403, 5-7=-694/360

**NOTES**  
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 2) Provide adequate drainage to prevent water ponding.  
 3) Refer to girder(s) for truss to truss connections.  
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 252 lb uplift at joint 7 and 291 lb uplift at joint 2.

LOAD CASE(S) Standard

|                                           |               |                          |                                                                                                        |          |                    |
|-------------------------------------------|---------------|--------------------------|--------------------------------------------------------------------------------------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>T13G | Truss Type<br>ROOF TRUSS | Qty<br>1                                                                                               | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |               |                          | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Jun 21 11:52:44 2006 Page 1 |          |                    |

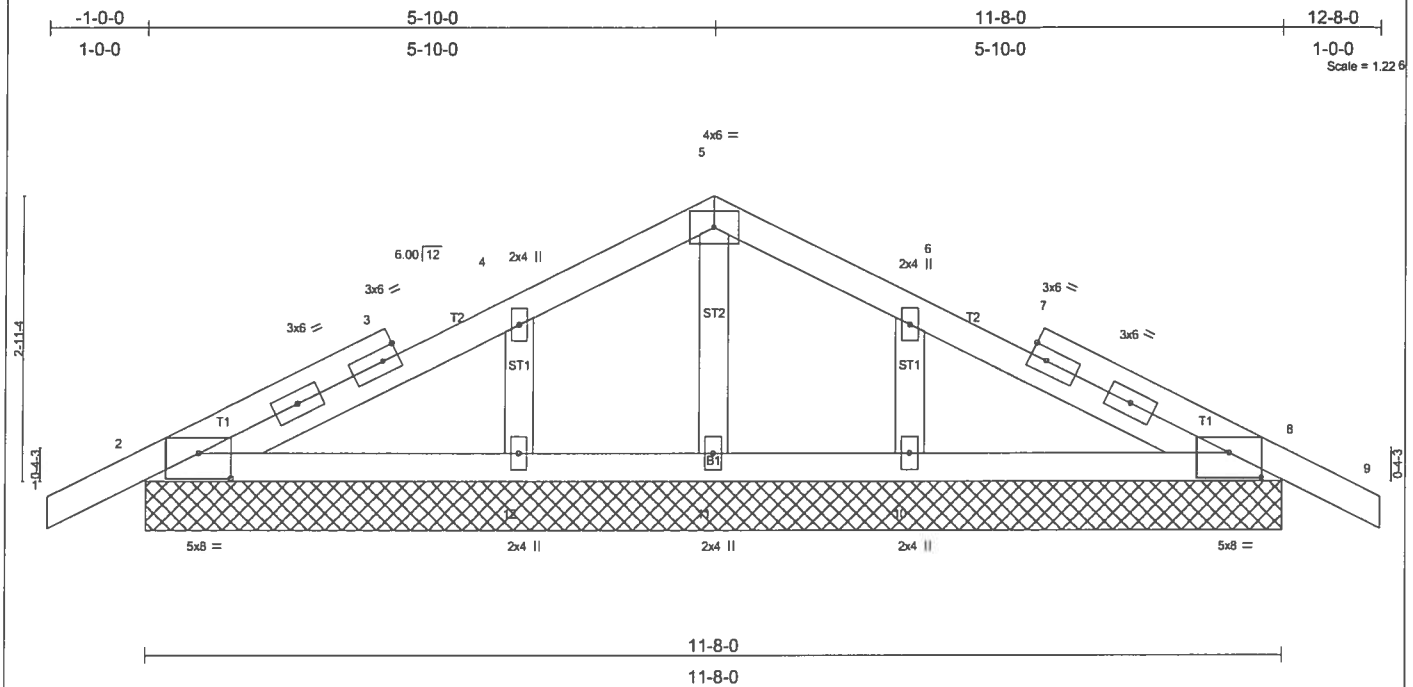


Plate Offsets (X,Y): [2-0-4-0-0-3-1], [8-0-4-0-0-3-1]

| LOADING (psf) | SPACING              | 2-0-0 | CSI      | DEFL     | in   | (loc) | I/defl | L/d | PLATES | GRIP          |
|---------------|----------------------|-------|----------|----------|------|-------|--------|-----|--------|---------------|
| TCLL 20.0     | Plates Increase      | 1.25  | TC 0.12  | Vert(LL) | 0.00 | 9     | n/r    | 120 | MT20   | 244/190       |
| TCDL 7.0      | Lumber Increase      | 1.25  | BC 0.08  | Vert(TL) | 0.00 | 9     | n/r    | 90  |        |               |
| BCLL 10.0     | Rep Stress Incr      | NO    | WB 0.05  | Horz(TL) | 0.00 | 8     | n/a    | n/a |        |               |
| BCDL 5.0      | Code FBC2004/TPI2002 |       | (Matrix) |          |      |       |        |     |        |               |
|               |                      |       |          |          |      |       |        |     |        | Weight: 54 lb |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 OTHERS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS** (lb/size) 2=217/11-8-0, 8=217/11-8-0, 11=127/11-8-0, 12=332/11-8-0, 10=332/11-8-0  
 Max Horz 2=55(load case 5)  
 Max Uplift 2=-115(load case 5), 8=-124(load case 6), 11=-5(load case 5), 12=-144(load case 5), 10=-146(load case 6)  
 Max Grav 2=220(load case 9), 8=220(load case 10), 11=127(load case 1), 12=333(load case 9), 10=333(load case 10)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/27, 2-3=40/30, 3-4=38/90, 4-5=17/81, 5-6=17/81, 6-7=15/90, 7-8=15/30, 8-9=0/27  
 BOT CHORD 2-12=-28/95, 11-12=-28/95, 10-11=-28/95, 8-10=-28/95  
 WEBS 5-11=-107/16, 4-12=-221/205, 6-10=-221/205

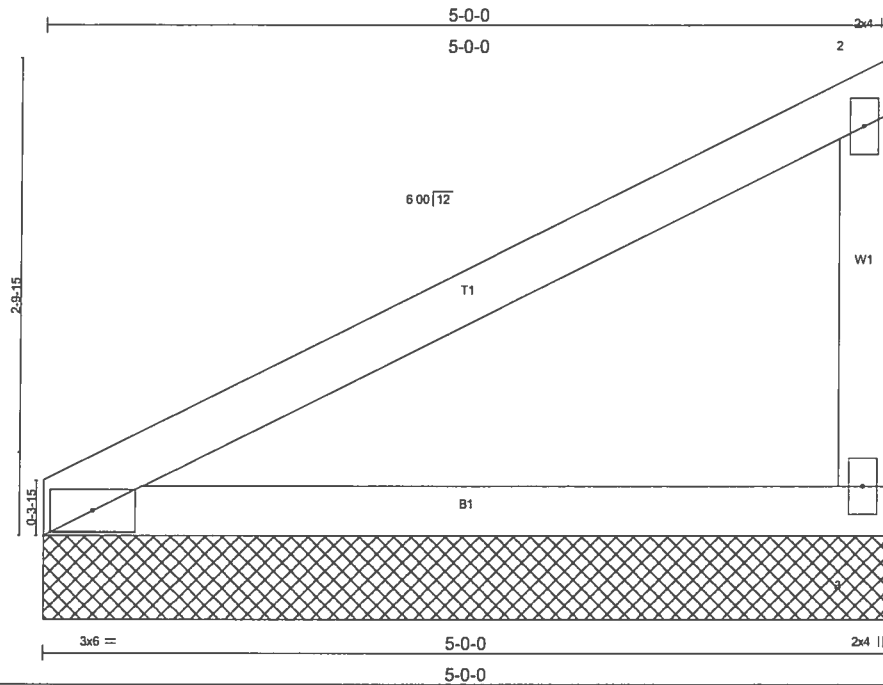
**NOTES**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see MiTek "Standard Gable End Detail"
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 2, 124 lb uplift at joint 8, 5 lb uplift at joint 11, 144 lb uplift at joint 12 and 146 lb uplift at joint 10.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-5=-64(F=-10), 5-9=-64(F=-10), 2-8=-30

|                                           |              |                          |                                                                                                        |          |                    |
|-------------------------------------------|--------------|--------------------------|--------------------------------------------------------------------------------------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>V04 | Truss Type<br>ROOF TRUSS | Qty<br>1                                                                                               | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Jun 21 11:53:06 2006 Page 1 |          |                    |



| LOADING (psf) | SPACING              | CSI      | DEFL     | in (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|----------|--------|-----|---------------|---------|
| TCLL 20.0     | 2'-0"                | TC 0.33  | Vert(LL) | n/a      | -      | n/a | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.17  | Vert(TL) | n/a      | -      | n/a |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.00  | Horz(TL) | 0.00     | -      | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |          |        |     |               |         |
|               | Code FBC2004/TPI2002 |          |          |          |        |     | Weight: 19 lb |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5'-0" oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

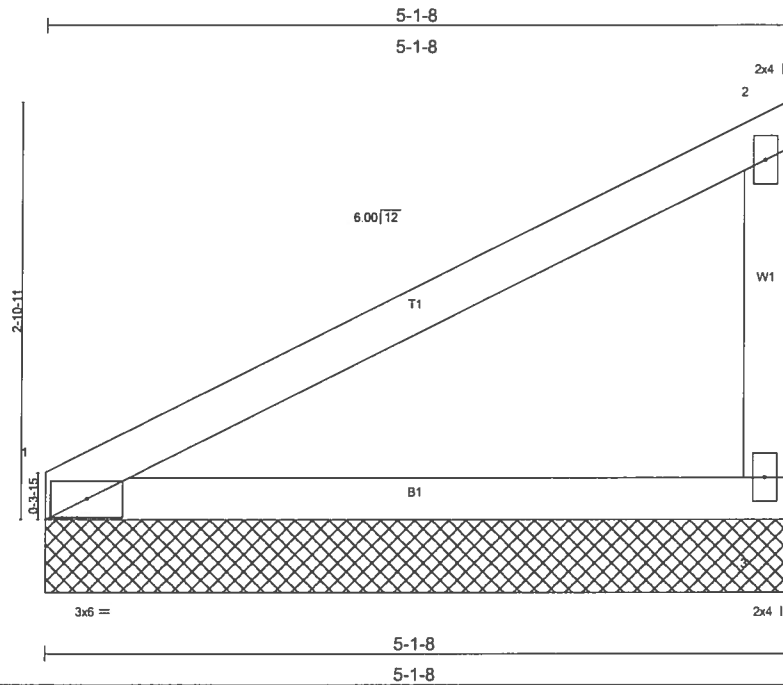
**REACTIONS** (lb/size) 1=204/5'-0", 3=204/5'-0"  
 Max Horz 1=113(load case 5)  
 Max Uplift 1=49(load case 5), 3=105(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-102/47, 2-3=-131/191  
 BOT CHORD 1-3=0/0

**NOTES**  
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 2) Gable requires continuous bottom chord bearing.  
 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1 and 105 lb uplift at joint 3.

**LOAD CASE(S)** Standard

|                                           |              |                          |                                                                                                        |          |                    |
|-------------------------------------------|--------------|--------------------------|--------------------------------------------------------------------------------------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>V05 | Truss Type<br>ROOF TRUSS | Qty<br>1                                                                                               | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Jun 21 11:53:11 2006 Page 1 |          |                    |



| LOADING (psf) | SPACING              | CSI      | DEFL     | in   | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.35  | Vert(LL) | n/a  | -     | n/a    | 999 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.18  | Vert(TL) | n/a  | -     | n/a    | 999 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.00  | Horz(TL) | 0.00 |       | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |      |       |        |     |               |         |
|               | Code FBC2004/TPI2002 |          |          |      |       |        |     | Weight: 20 lb |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 5-1-8 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=209/5-1-8, 3=209/5-1-8  
 Max Horz 1=116(load case 5)  
 Max Uplift 1=50(load case 5), 3=108(load case 5)

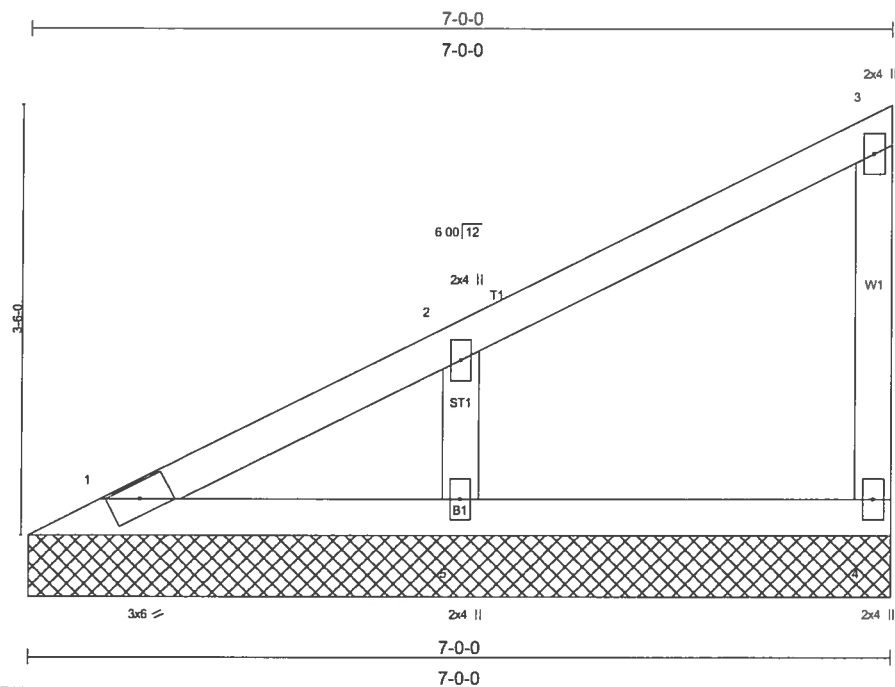
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-105/48, 2-3=-134/195  
 BOT CHORD 1-3=0/0

**NOTES**  
 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
 2) Gable requires continuous bottom chord bearing.  
 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1 and 108 lb uplift at joint 3.

**LOAD CASE(S)** Standard

|                                           |              |                          |                          |          |                    |
|-------------------------------------------|--------------|--------------------------|--------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>V06 | Truss Type<br>ROOF TRUSS | Qty<br>1                 | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | Job Reference (optional) |          |                    |

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Scale = 1/17.9

| LOADING (psf) | SPACING              | CSI      | DEFL     | in   | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2'-0"                | TC 0.13  | Vert(LL) | n/a  | -     | n/a    | 999 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.07  | Vert(TL) | n/a  | -     | n/a    | 999 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.06  | Horz(TL) | 0.00 | 4     | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |      |       |        |     |               |         |
|               | Code FBC2004/TPI2002 |          |          |      |       |        |     | Weight: 27 lb |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 OTHERS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10'-0" oc bracing.

**REACTIONS** (lb/size) 1=98/7'-0", 4=121/7'-0", 5=306/7'-0"  
 Max Horz 1=144(load case 5)  
 Max Uplift 4=63(load case 5), 5=156(load case 5)

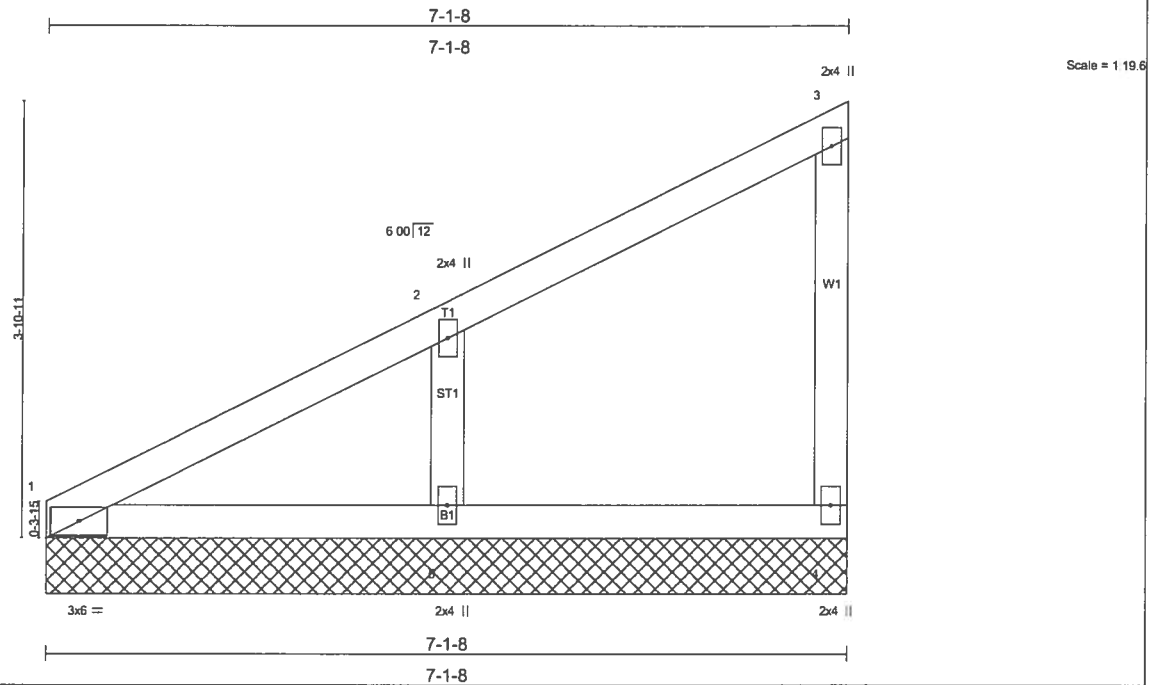
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-173/25, 2-3=-62/19, 3-4=-75/105  
 BOT CHORD 1-5=-14/16, 4-5=-14/16  
 WEBS 2-5=-193/258

**NOTES**

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Gable requires continuous bottom chord bearing.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 4 and 156 lb uplift at joint 5.

**LOAD CASE(S)** Standard

|                                           |              |                          |                                                                                                        |          |                    |
|-------------------------------------------|--------------|--------------------------|--------------------------------------------------------------------------------------------------------|----------|--------------------|
| Job<br>L169692                            | Truss<br>V07 | Truss Type<br>ROOF TRUSS | Qty<br>1                                                                                               | Ply<br>1 | PENNYWORTH-JARRELL |
| Builders FirstSource, Lake City, FL 32055 |              |                          | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Wed Jun 21 11:53:28 2006 Page 1 |          |                    |



|                      |                      |            |                                 |               |               |
|----------------------|----------------------|------------|---------------------------------|---------------|---------------|
| <b>LOADING</b> (psf) | <b>SPACING</b> 2-0-0 | <b>CSI</b> | <b>DEFL</b> in (loc) l/defl L/d | <b>PLATES</b> | <b>GRIP</b>   |
| TCLL 20.0            | Plates Increase 1.25 | TC 0.12    | Vert(LL) n/a - n/a 999          | MT20          | 244/190       |
| TCDL 7.0             | Lumber Increase 1.25 | BC 0.09    | Vert(TL) n/a - n/a 999          |               |               |
| BCLL 10.0            | Rep Stress Incr YES  | WB 0.07    | Horz(TL) 0.00 4 n/a n/a         |               |               |
| BCDL 5.0             | Code FBC2004/TPI2002 | (Matrix)   |                                 |               | Weight: 30 lb |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2  
 BOT CHORD 2 X 4 SYP No.2  
 WEBS 2 X 4 SYP No.3  
 OTHERS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 1=123/7-1-8, 4=115/7-1-8, 5=348/7-1-8  
 Max Horz 1=162(load case 5)  
 Max Uplift 4=60(load case 5), 5=179(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-191/37, 2-3=-61/22, 3-4=-73/102  
 BOT CHORD 1-5=-11/12, 4-5=-11/12  
 WEBS 2-5=-218/287

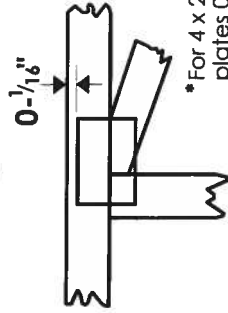
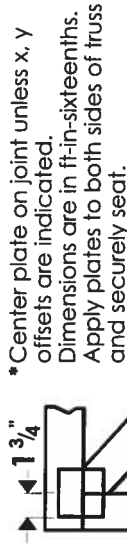
#### NOTES

- 1) Wind: ASCE 7-02; 110mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Gable requires continuous bottom chord bearing.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 4 and 179 lb uplift at joint 5.

**LOAD CASE(S)** Standard

# Symbols

## PLATE LOCATION AND ORIENTATION



\*For 4 x 2 orientation, locate plates 0-<sup>1</sup>/<sub>16</sub>\" from outside edge of truss.

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

\*Plate location details available in Mitek 20/20 software or upon request.

## PLATE SIZE

4 X 4

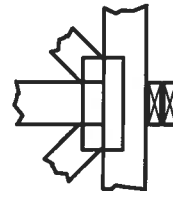
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



Indicated by symbol shown and/or by text in the bracing section of the output. Use T, I or Eliminator bracing if indicated.

## BEARING

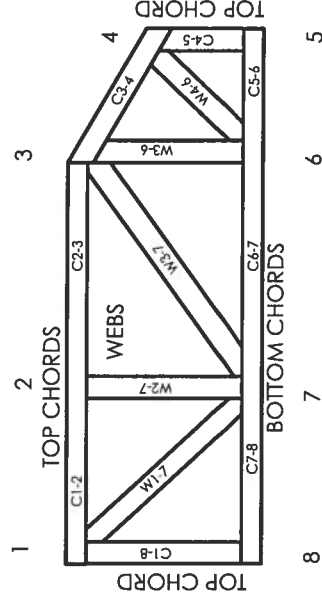


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

## Industry Standards:

- ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
- DSB-89: Design Standard for Bracing.
- BCS11: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

# Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## CONNECTOR PLATE CODE APPROVALS

|       |                                     |
|-------|-------------------------------------|
| BOCA  | 96-31, 95-43, 96-20-1, 96-67, 84-32 |
| ICBO  | 4922, 5243, 5363, 3907              |
| SBCCI | 9667, 9730, 9604B, 9511, 9432A      |



Mitek Engineering Reference Sheet: MI-7473

# General Safety Notes

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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCS11.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant or preservative treated lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions shown indicate minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing shown on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of a professional engineer.
- Install and load vertically unless indicated otherwise.

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