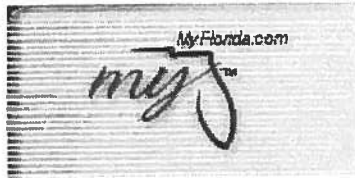


|                                                                                                                                                                                                |                          |                                 |           |    |          |           |           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|---------------------------------|-----------|----|----------|-----------|-----------|
| <b>Project Information for:</b>                                                                                                                                                                |                          | L131851                         |           |    |          |           |           |
| Builder:                                                                                                                                                                                       | LIPSCOMB EAGLE           | Date:                           | 9/19/2005 |    |          |           |           |
| Lot:                                                                                                                                                                                           | LOT 43 EMERALD COVE      | Start Number:                   | 028       |    |          |           |           |
| Subdivision:                                                                                                                                                                                   | N/A                      |                                 |           |    |          |           |           |
| County or City:                                                                                                                                                                                | COLUMBIA COUNTY          |                                 |           |    |          |           |           |
| Truss Page Count:                                                                                                                                                                              | 52                       |                                 |           |    |          |           |           |
| <b>Truss Design Load Information (UNO)</b>                                                                                                                                                     |                          | Design Program: MiTek 5.2 / 6.2 |           |    |          |           |           |
| <b>Gravity</b>                                                                                                                                                                                 | <b>Wind</b>              | <b>Building Code:</b> FBC2001   |           |    |          |           |           |
| Roof (psf): 42                                                                                                                                                                                 | Wind Standard: ASCE 7-98 |                                 |           |    |          |           |           |
| Floor (psf): 55                                                                                                                                                                                | Wind Speed (mph): 120    |                                 |           |    |          |           |           |
| Note: See individual truss drawings for special loading conditions                                                                                                                             |                          |                                 |           |    |          |           |           |
| <b>Building Designer, responsible for Structural Engineering: (See attached)</b>                                                                                                               |                          |                                 |           |    |          |           |           |
| MANGRUM, DAVID E RB29003100                                                                                                                                                                    |                          |                                 |           |    |          |           |           |
| Address: 634 SE MAYHALL TERRACE                                                                                                                                                                |                          | Designer:                       | 65        |    |          |           |           |
| LAKE CITY, FL 32025                                                                                                                                                                            |                          |                                 |           |    |          |           |           |
| <b>Truss Design Engineer:</b> Thomas, E. Miller, P.E., 56877 - Byron K. Anderson, PE FL 60987                                                                                                  |                          |                                 |           |    |          |           |           |
| Company: Structural Engineering and Inspections, Inc. EB 9196                                                                                                                                  |                          |                                 |           |    |          |           |           |
| Address: 16105 N. Florida Ave, Ste B, Lutz, FL 33549                                                                                                                                           |                          |                                 |           |    |          |           |           |
| Notes:                                                                                                                                                                                         |                          |                                 |           |    |          |           |           |
| 1. Truss Design Engineer is responsible for the individual trusses as components only.                                                                                                         |                          |                                 |           |    |          |           |           |
| 2. Determination as to the suitability and use of these truss components for the structure is the responsibility of the Building Designer of Record, as defined in ANSI/TPI 1-1995 Section 2.2 |                          |                                 |           |    |          |           |           |
| 3. The seal date shown on the individual truss component drawings must match the seal date on this index sheet.                                                                                |                          |                                 |           |    |          |           |           |
| #                                                                                                                                                                                              | Truss ID                 | Dwg. #                          | Seal Date | #  | Truss ID | Dwg. #    | Seal Date |
| 1                                                                                                                                                                                              | CJ1                      | 091905028                       | 9/19/2005 | 41 | T20      | 091905068 | 9/19/2005 |
| 2                                                                                                                                                                                              | CJ3                      | 091905029                       | 9/19/2005 | 42 | T21      | 091905069 | 9/19/2005 |
| 3                                                                                                                                                                                              | CJ3A                     | 091905030                       | 9/19/2005 | 43 | T22      | 091905070 | 9/19/2005 |
| 4                                                                                                                                                                                              | CJ5                      | 091905031                       | 9/19/2005 | 44 | T23      | 091905071 | 9/19/2005 |
| 5                                                                                                                                                                                              | EJ5                      | 091905032                       | 9/19/2005 | 45 | T26      | 091905072 | 9/19/2005 |
| 6                                                                                                                                                                                              | EJ7                      | 091905033                       | 9/19/2005 | 46 | T27      | 091905073 | 9/19/2005 |
| 7                                                                                                                                                                                              | HJ5                      | 091905034                       | 9/19/2005 | 47 | T28      | 091905074 | 9/19/2005 |
| 8                                                                                                                                                                                              | HJ7                      | 091905035                       | 9/19/2005 | 48 | T29      | 091905075 | 9/19/2005 |
| 9                                                                                                                                                                                              | CJ5A                     | 091905036                       | 9/19/2005 | 49 | T31      | 091905076 | 9/19/2005 |
| 10                                                                                                                                                                                             | EJ7A                     | 091905037                       | 9/19/2005 | 50 | T32      | 091905077 | 9/19/2005 |
| 11                                                                                                                                                                                             | HJ7A                     | 091905038                       | 9/19/2005 | 51 | T33      | 091905078 | 9/19/2005 |
| 12                                                                                                                                                                                             | PB01                     | 091905039                       | 9/19/2005 | 52 | T34      | 091905079 | 9/19/2005 |
| 13                                                                                                                                                                                             | PB02                     | 091905040                       | 9/19/2005 |    |          |           |           |
| 14                                                                                                                                                                                             | PB03                     | 091905041                       | 9/19/2005 |    |          |           |           |
| 15                                                                                                                                                                                             | PB04                     | 091905042                       | 9/19/2005 |    |          |           |           |
| 16                                                                                                                                                                                             | PB05                     | 091905043                       | 9/19/2005 |    |          |           |           |
| 17                                                                                                                                                                                             | PB06                     | 091905044                       | 9/19/2005 |    |          |           |           |
| 18                                                                                                                                                                                             | PB07                     | 091905045                       | 9/19/2005 |    |          |           |           |
| 19                                                                                                                                                                                             | PB08                     | 091905046                       | 9/19/2005 |    |          |           |           |
| 20                                                                                                                                                                                             | PB09                     | 091905047                       | 9/19/2005 |    |          |           |           |
| 21                                                                                                                                                                                             | PB10                     | 091905048                       | 9/19/2005 |    |          |           |           |
| 22                                                                                                                                                                                             | PB11                     | 091905049                       | 9/19/2005 |    |          |           |           |
| 23                                                                                                                                                                                             | T01                      | 091905050                       | 9/19/2005 |    |          |           |           |
| 24                                                                                                                                                                                             | T02                      | 091905051                       | 9/19/2005 |    |          |           |           |
| 25                                                                                                                                                                                             | T03                      | 091905052                       | 9/19/2005 |    |          |           |           |
| 26                                                                                                                                                                                             | T04                      | 091905053                       | 9/19/2005 |    |          |           |           |
| 27                                                                                                                                                                                             | T05                      | 091905054                       | 9/19/2005 |    |          |           |           |
| 28                                                                                                                                                                                             | T06                      | 091905055                       | 9/19/2005 |    |          |           |           |
| 29                                                                                                                                                                                             | T07                      | 091905056                       | 9/19/2005 |    |          |           |           |
| 30                                                                                                                                                                                             | T08                      | 091905057                       | 9/19/2005 |    |          |           |           |
| 31                                                                                                                                                                                             | T09                      | 091905058                       | 9/19/2005 |    |          |           |           |
| 32                                                                                                                                                                                             | T10                      | 091905059                       | 9/19/2005 |    |          |           |           |
| 33                                                                                                                                                                                             | T11                      | 091905060                       | 9/19/2005 |    |          |           |           |
| 34                                                                                                                                                                                             | T12                      | 091905061                       | 9/19/2005 |    |          |           |           |
| 35                                                                                                                                                                                             | T13                      | 091905062                       | 9/19/2005 |    |          |           |           |
| 36                                                                                                                                                                                             | T15                      | 091905063                       | 9/19/2005 |    |          |           |           |
| 37                                                                                                                                                                                             | T16                      | 091905064                       | 9/19/2005 |    |          |           |           |
| 38                                                                                                                                                                                             | T17                      | 091905065                       | 9/19/2005 |    |          |           |           |
| 39                                                                                                                                                                                             | T18                      | 091905066                       | 9/19/2005 |    |          |           |           |
| 40                                                                                                                                                                                             | T19                      | 091905067                       | 9/19/2005 |    |          |           |           |

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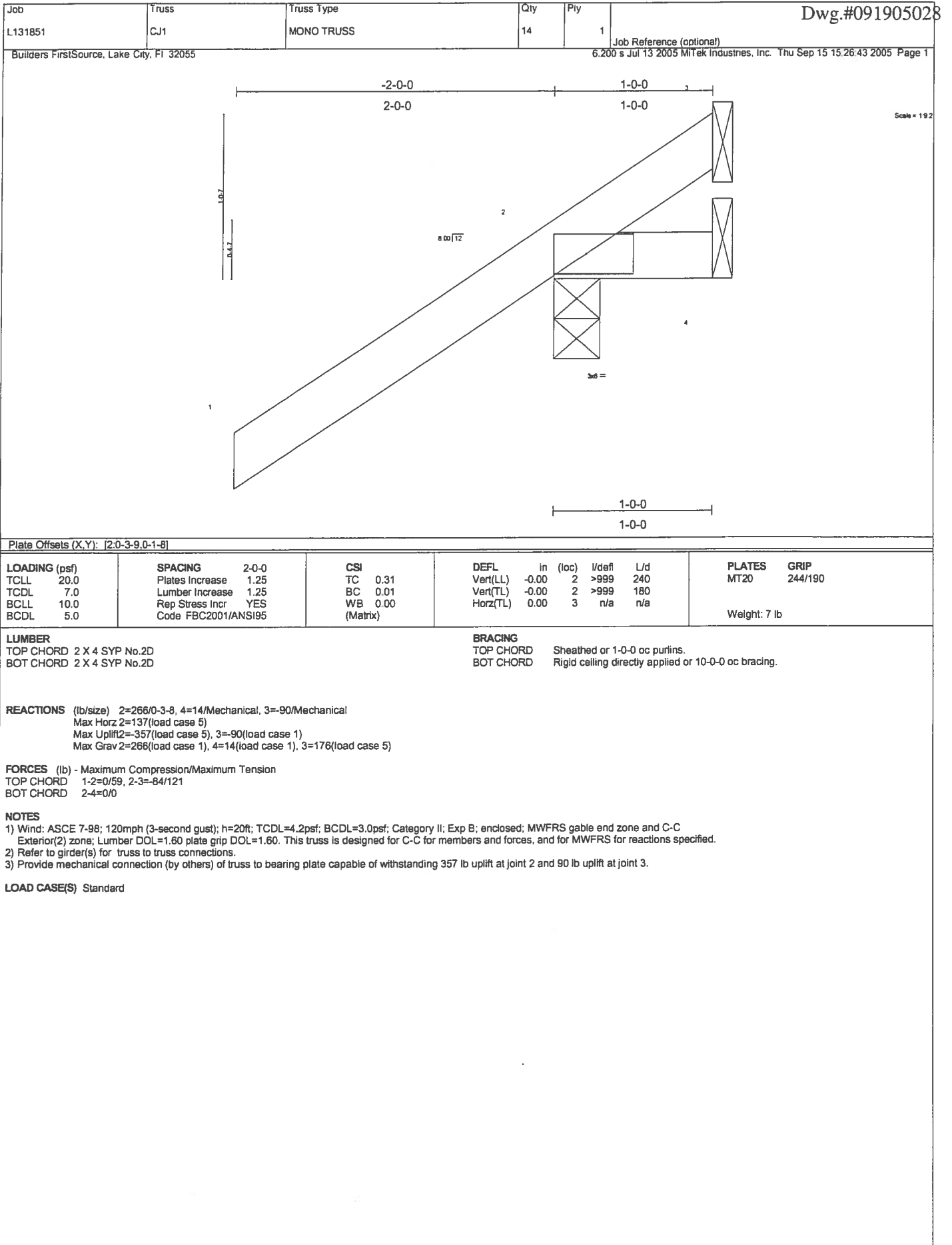
**Name:** **MANGRUM, DAVID E (Primary Name)**  
**STANDARD PLUMBING & SUPPLIES CO**  
**INC (DBA Name)**  
**Main Address:** **634 SE MAYHALL TERRACE**  
**LAKE CITY Florida 32025**  
**County:** **COLUMBIA**

**License Mailing:****LicenseLocation:****License Information**

**License Type:** **Registered Building Contractor**  
**Rank:** **Reg Building**  
**License Number:** **RB29003100**  
**Status:** **Current,Active**  
**Licensure Date:** **07/22/2002**  
**Expires:** **08/31/2005**

**Special Qualifications** **Qualification Effective**  
**Bldg Code Core**  
**Course Credit**  
**Qualified Business License Required** **02/20/2004**

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|                                           |       |            |     |     |                                                                            |
|-------------------------------------------|-------|------------|-----|-----|----------------------------------------------------------------------------|
| Job                                       | Truss | Truss Type | Qty | Ply | Dwg.#091905029                                                             |
| L131851                                   | CJ3   | MONO TRUSS | 12  | 1   |                                                                            |
| Builders FirstSource, Lake City, FL 32055 |       |            |     |     | Job Reference (optional)                                                   |
|                                           |       |            |     |     | 6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Sep 15 15:26:44 2005 Page 1 |

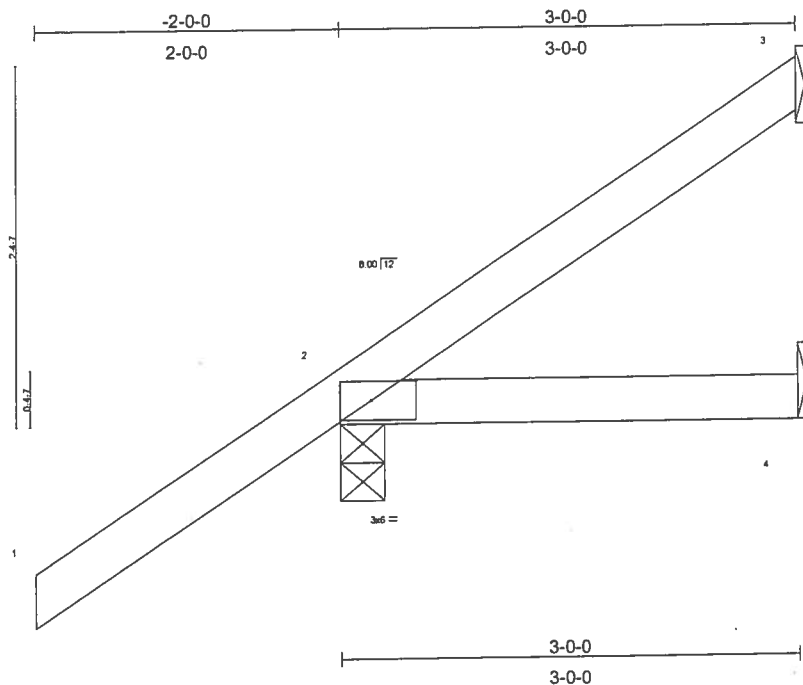


Plate Offsets (X,Y): [2-0-3-9-0-1-8]

| LOADING (psf) | SPACING             | 2-0-0 | CSI      | DEFL     | in    | (loc) | L/defl | L/d | PLATES | GRIP          |
|---------------|---------------------|-------|----------|----------|-------|-------|--------|-----|--------|---------------|
| TCLL 20.0     | Plates Increase     | 1.25  | TC 0.32  | Vert(LL) | -0.00 | 2-4   | >999   | 240 | MT20   | 244/190       |
| TCDL 7.0      | Lumber Increase     | 1.25  | BC 0.05  | Vert(TL) | -0.00 | 2-4   | >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 FBC2001/ANSI95 |       | (Matrix) |          |       |       |        |     |        | Weight: 14 lb |

#### LUMBER

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

#### BRACING

TOP CHORD Sheathed or 3-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

#### REACTIONS (lb/size) 3=31/Mechanical, 2=278/0-3-8, 4=42/Mechanical

Max Horz 2=209(load case 5)  
Max Uplift 3=35(load case 4), 2=243(load case 5)  
Max Grav 3=38(load case 3), 2=278(load case 1), 4=42(load case 1)

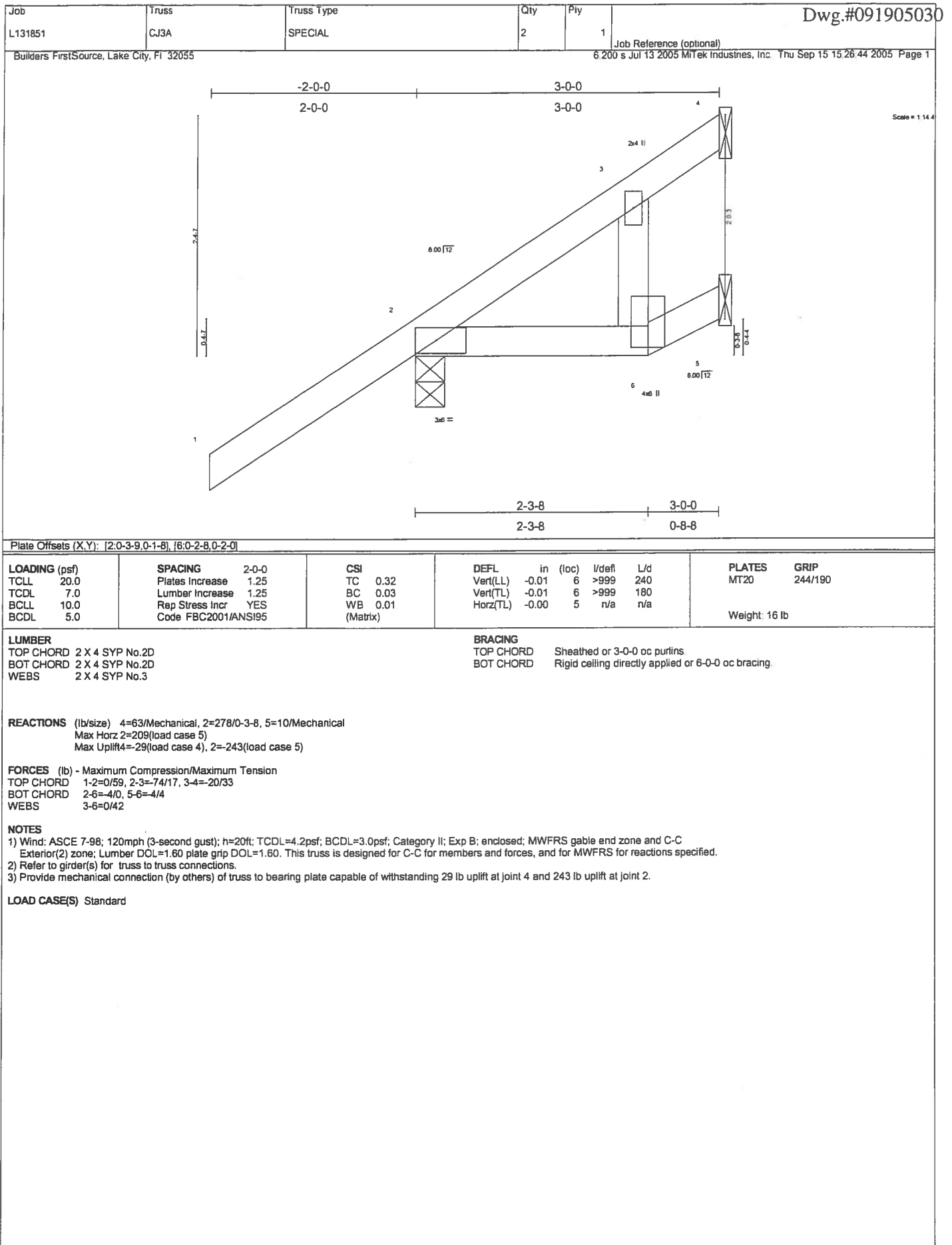
#### FORCES (lb) - Maximum Compression/Maximum Tension

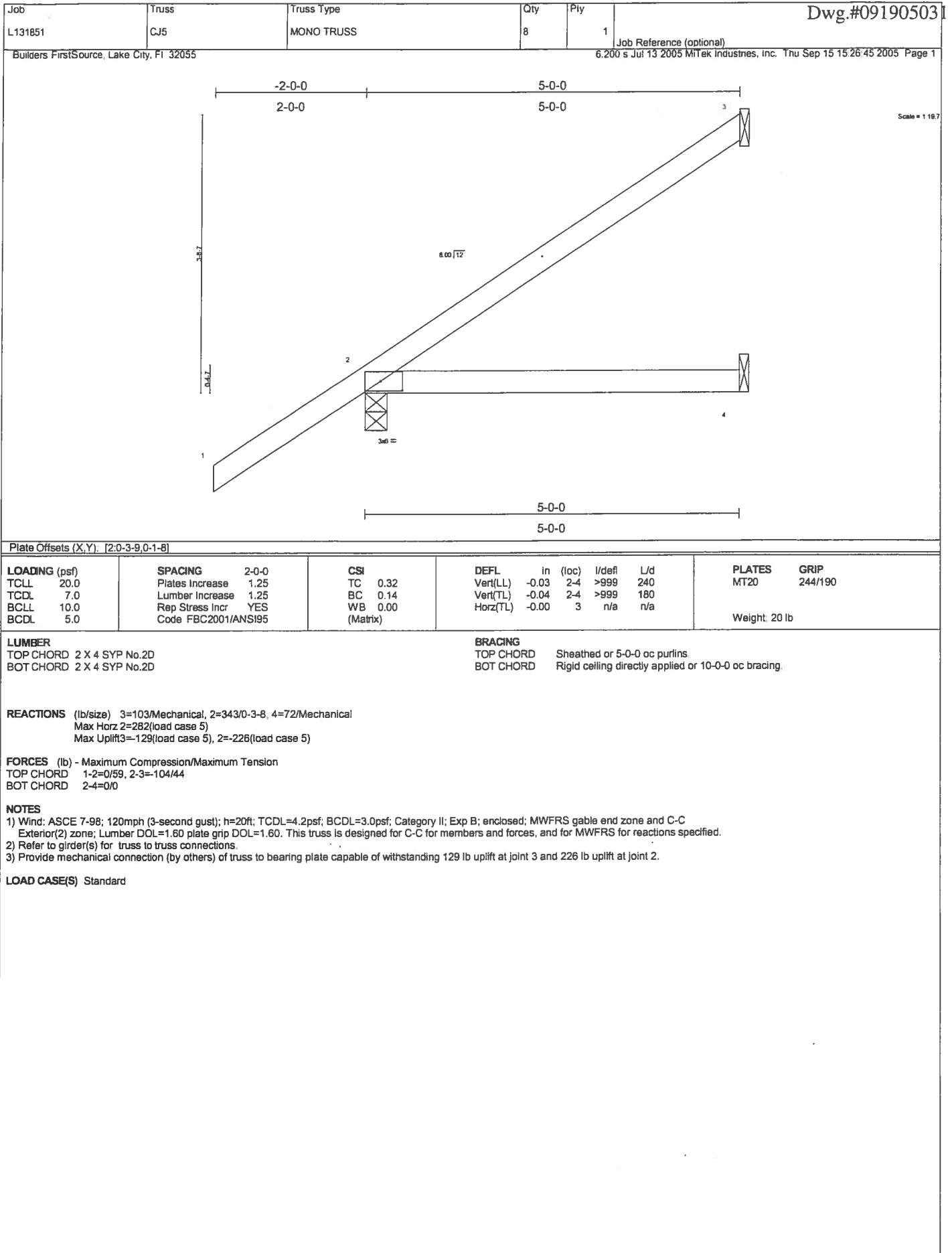
TOP CHORD 1-2=0/59, 2-3=70/21  
BOT CHORD 2-4=0/0

#### NOTES

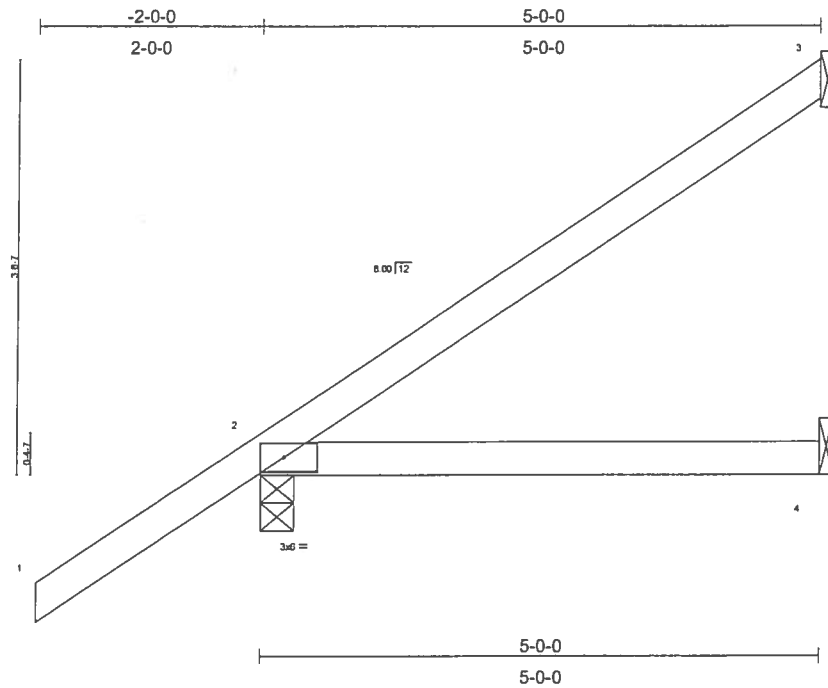
- 1) Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 3 and 243 lb uplift at joint 2.

LOAD CASE(S) Standard





|                                                                            |       |            |     |     |                          |
|----------------------------------------------------------------------------|-------|------------|-----|-----|--------------------------|
| Job                                                                        | Truss | Truss Type | Qty | Ply | Dwg.#091905032           |
| L131851                                                                    | EJ5   | MONO TRUSS | 4   | 1   | Job Reference (optional) |
| Builders FirstSource, Lake City, FL 32055                                  |       |            |     |     |                          |
| 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Sep 15 15:26:46 2005 Page 1 |       |            |     |     |                          |



Scale = 1/16"

Plate Offsets (X,Y): [2'-0"-3'-9"-1'-8"]

| LOADING (psf) | SPACING                  | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES | GRIP          |
|---------------|--------------------------|----------|----------|-------|-------|--------|-----|--------|---------------|
| TCLL 20.0     | Plates Increase 2'-0"-0" | TC 0.32  | Vert(LL) | -0.03 | 2'-4" | >999   | 240 | MT20   | 244/190       |
| TCDL 7.0      | Lumber Increase 1.25     | BC 0.14  | Vert(TL) | -0.04 | 2'-4" | >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 FBC2001/ANSI95      | (Matrix) |          |       |       |        |     |        |               |
|               |                          |          |          |       |       |        |     |        | Weight: 20 lb |

**LUMBER**  
TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D

**BRACING**  
TOP CHORD Sheathed or 5'-0"-0" oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10'-0"-0" oc bracing.

**REACTIONS** (lb/size) 3=103/Mechanical, 2=343/0-3-8, 4=72/Mechanical  
Max Horz 2=282(load case 5)  
Max Uplift 3=129(load case 5), 2=226(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=104/44  
BOT CHORD 2-4=0/0

**NOTES**  
1) Wind: ASCE 7-98; 120mph (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 129 lb uplift at joint 3 and 226 lb uplift at joint 2.

**LOAD CASE(S)** Standard



|                      |                      |            |             |                 |               |            |               |             |
|----------------------|----------------------|------------|-------------|-----------------|---------------|------------|---------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING</b> 2-0-0 | <b>CSI</b> | <b>DEFL</b> | <b>In</b> (loc) | <b>l/defl</b> | <b>L/d</b> | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | Plates Increase 1.25 | TC 0.43    | Vert(LL)    | -0.11           | 2-4           | >776       | MT20          | 244/190     |
| TCDL 7.0             | Lumber Increase 1.25 | BC 0.28    | Vert(TL)    | -0.16           | 2-4           | >517       |               |             |
| BCLL 10.0            | Rep Stress Incr YES  | WB 0.00    | Horz(TL)    | -0.00           | 3             | n/a        |               |             |
| BCDL 5.0             | Code FBC2001/ANSI95  | (Matrix)   |             |                 |               |            | Weight: 27 lb |             |

|                |                                                      |
|----------------|------------------------------------------------------|
| <b>BRACING</b> |                                                      |
| TOP CHORD      | Sheathed or 6-0-0 oc purlins.                        |
| BOT CHORD      | Rigid ceiling directly applied or 10-0-0 oc bracing. |

**FORCES (lb) - Maximum Compression/Maximum Tension**  
**TOP CHORD** 1-2=0/59, 2-3=-162/73  
**BOT CHORD** 2-4=0/0

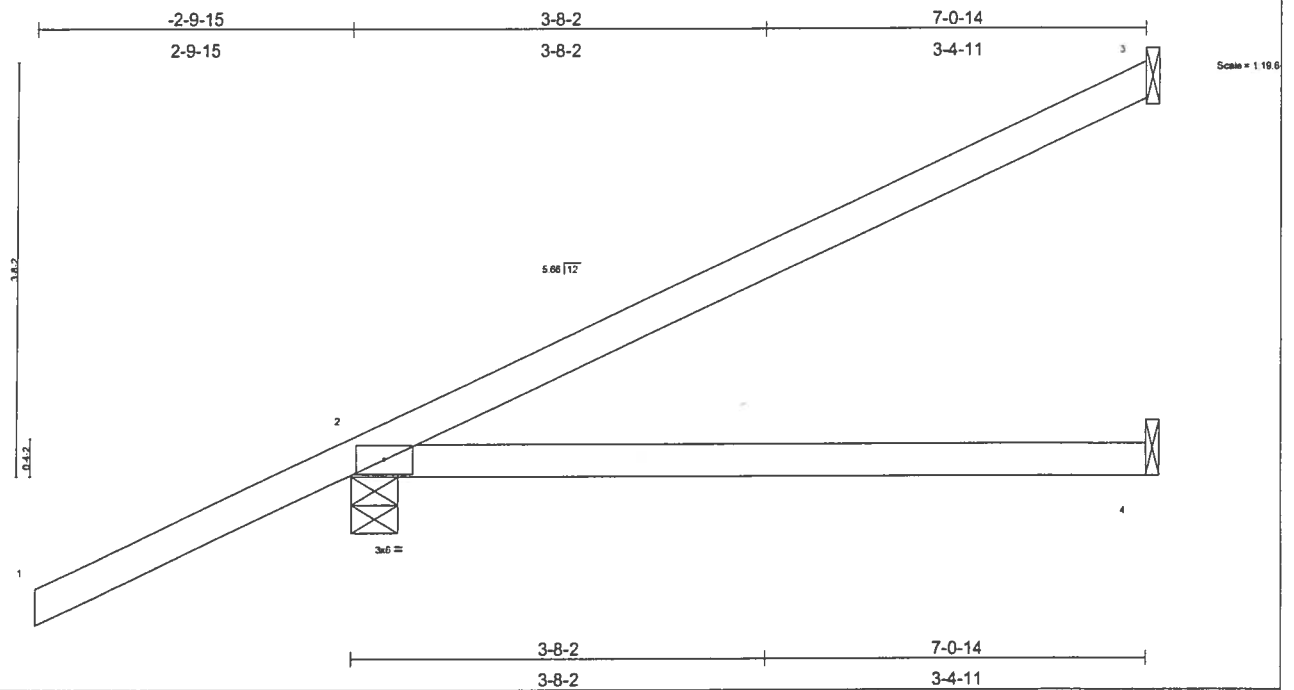
1) Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCDF=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate gird DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified

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

3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 214 lb uplift at joint 3 and 229 lb uplift at joint 2.

LOAD CASE(S) Standard

|                                           |       |            |                                                                            |     |                |
|-------------------------------------------|-------|------------|----------------------------------------------------------------------------|-----|----------------|
| Job                                       | Truss | Truss Type | Qty                                                                        | Ply | Dwg.#091905034 |
| L131851                                   | HJ5   | MONO TRUSS | 2                                                                          | 1   |                |
| Builders FirstSource, Lake City, FL 32055 |       |            | 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Sep 15 15:26:48 2005 Page 1 |     |                |



| LOADING (psf) | SPACING              | CSI      | DEFL                        | PLATES        | GRIP    |
|---------------|----------------------|----------|-----------------------------|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.55  | in (loc) l/defl L/d         | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.29  | Vert(LL) -0.09 2-4 >872 240 |               |         |
| BCCL 10.0     | Lumber Increase 1.25 | WB 0.00  | Vert(TL) -0.14 2-4 >581 180 |               |         |
| BCDL 5.0      | Rep Stress Incr NO   | (Matrix) | Horz(TL) -0.00 3 n/a n/a    |               |         |
|               | Code FBC2001/ANSI95  |          |                             | Weight: 27 lb |         |

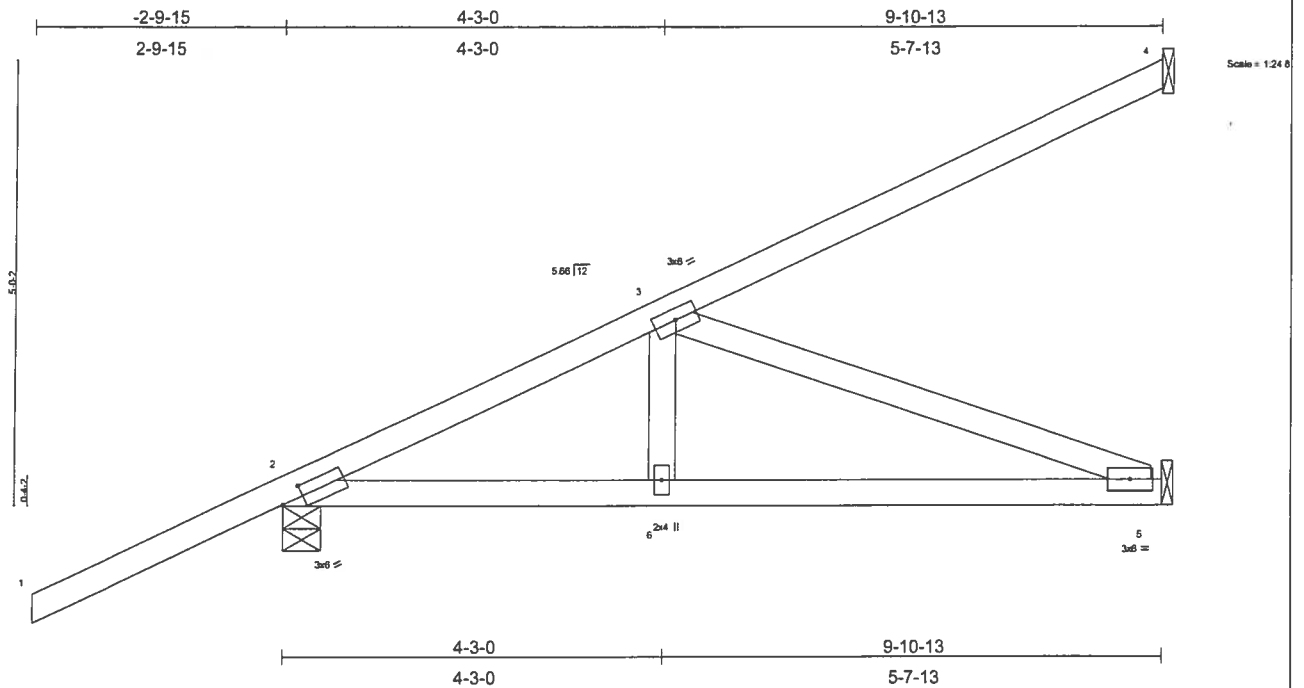
|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| <b>LUMBER</b>             | <b>BRACING</b>                                                 |
| TOP CHORD 2 X 4 SYP No.2D | TOP CHORD Sheathed or 7-0-14 oc purlins                        |
| BOT CHORD 2 X 4 SYP No.2D | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |

**REACTIONS** (lb/size) 3=183/Mechanical, 2=375/0-4-15, 4=120/Mechanical  
Max Horz 2=263(load case 4)  
Max Uplift 3=-197(load case 4), 2=-279(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/64, 2-3=-110/53  
BOT CHORD 2-4=0/0

**NOTES**  
1) Wind: ASCE 7-98; 120mph (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 197 lb uplift at joint 3 and 279 lb uplift at joint 2.  
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=-3(F=26, B=26)-to-3=-95(F=-21, B=-21), 2=0(F=15, B=15)-to-4=-53(F=-12, B=-12)



|                                                        |                      |          |          |       |       |        |     |               |         |
|--------------------------------------------------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| Plate Offsets (X,Y): [2:0-2-13:0-1-8], [5:0-0-0,0-0-0] |                      |          |          |       |       |        |     |               |         |
| LOADING (psf)                                          | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
| TCLL 20.0                                              | 2-0-0                | TC 0.55  | Vert(LL) | -0.07 | 5-6   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0                                               | Plates Increase 1.25 | BC 0.42  | Vert(TL) | -0.10 | 5-6   | >999   | 180 |               |         |
| BCCL 10.0                                              | Lumber Increase 1.25 | WB 0.42  | Horz(TL) | 0.01  | 5     | n/a    | n/a |               |         |
| BCDL 5.0                                               | Rep Stress Incr NO   | (Matrix) |          |       |       |        |     |               |         |
|                                                        | Code FBC2001/ANSI95  |          |          |       |       |        |     |               |         |
|                                                        |                      |          |          |       |       |        |     | Weight: 47 lb |         |

|                                                                                                |                                                                                                                          |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2D<br>BOT CHORD 2 X 4 SYP No.2D<br>WEBS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Sheathed or 6-0-0 oc purlins<br>BOT CHORD Rigid ceiling directly applied or 9-7-6 oc bracing |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 4=266/Mechanical, 2=531/0-4-15, 5=379/Mechanical  
 Max Horz 2=432(load case 4)  
 Max Uplift 4=327(load case 4), 2=-295(load case 4), 5=-111(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/64, 2-3=-700/26, 3-4=-175/83  
 BOT CHORD 2-6=-349/618, 5-6=-349/618  
 WEBS 3-6=0/165, 3-5=-659/372

**NOTES**  
 1) Wind: ASCE 7-98; 120mph (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 327 lb uplift at joint 4, 295 lb uplift at joint 2 and 111 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=-3(F=26, B=26)-to-4=-134(F=-40, B=-40), 2=-0(F=15, B=15)-to-5=-74(F=-22, B=-22)

|                                           |       |            |                                                                            |     |                          |
|-------------------------------------------|-------|------------|----------------------------------------------------------------------------|-----|--------------------------|
| Job                                       | Truss | Truss Type | Qty                                                                        | Ply | Dwg.#091905036           |
| L131851                                   | CJ5A  | SPECIAL    | 2                                                                          | 1   | Job Reference (optional) |
| Builders FirstSource, Lake City, FL 32055 |       |            | 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Sep 15 15:26:46 2005 Page 1 |     |                          |

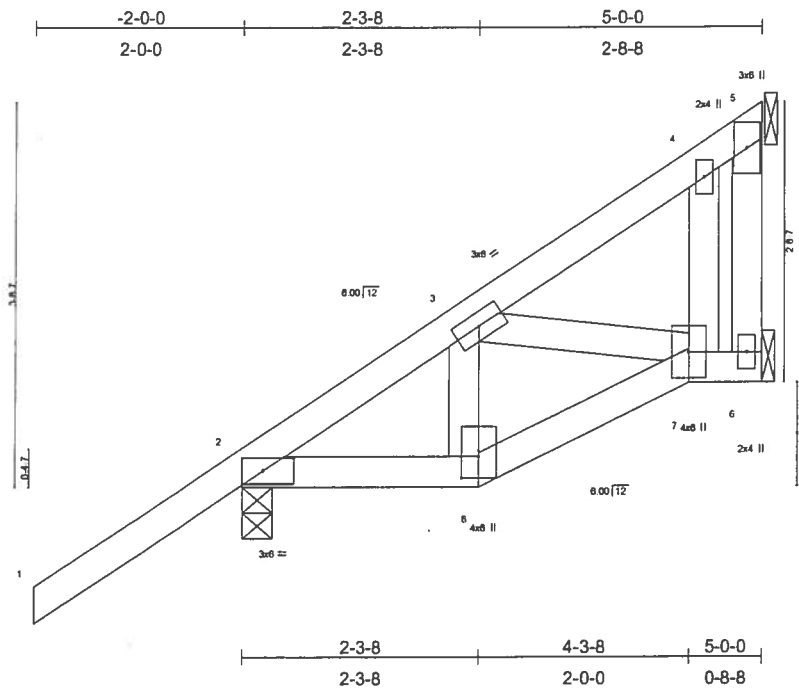


Plate Offsets (X,Y) [2'-0-3-9,0-1-8], [8'-0-2-8,0-2-0]

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2'-0-0               | TC 0.32  | Vert(LL) | 0.01  | 7     | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.05  | Vert(TL) | 0.01  | 7     | >999   | 180 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.04  | Horz(TL) | -0.00 | 6     | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |       |       |        |     |               |         |
|               | Code FBC2001/ANSI95  |          |          |       |       |        |     | Weight: 31 lb |         |

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

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

**REACTIONS** (lb/size) 5=163/Mechanical, 6=8/Mechanical, 2=340/0-3-8  
Max Horz 2=279(load case 5)  
Max Uplift 5=-113(load case 5), 2=-226(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=-205/0, 3-4=-68/0, 4-5=-72/89, 5-6=0/0  
BOT CHORD 2-8=-52/113, 7-8=-56/138, 6-7=0/0  
WEBS 3-8=-23/37, 4-7=-27/119, 3-7=-107/47

#### NOTES

- 1) Wind: ASCE 7-98; 120mph (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 113 lb uplift at joint 5 and 226 lb uplift at joint 2.
- 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

**LOAD CASE(S)** Standard



|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| L131851 | HJ7A  | SPECIAL    | 1   | 1   |                          |

Builders FirstSource, Lake City, FL 32055

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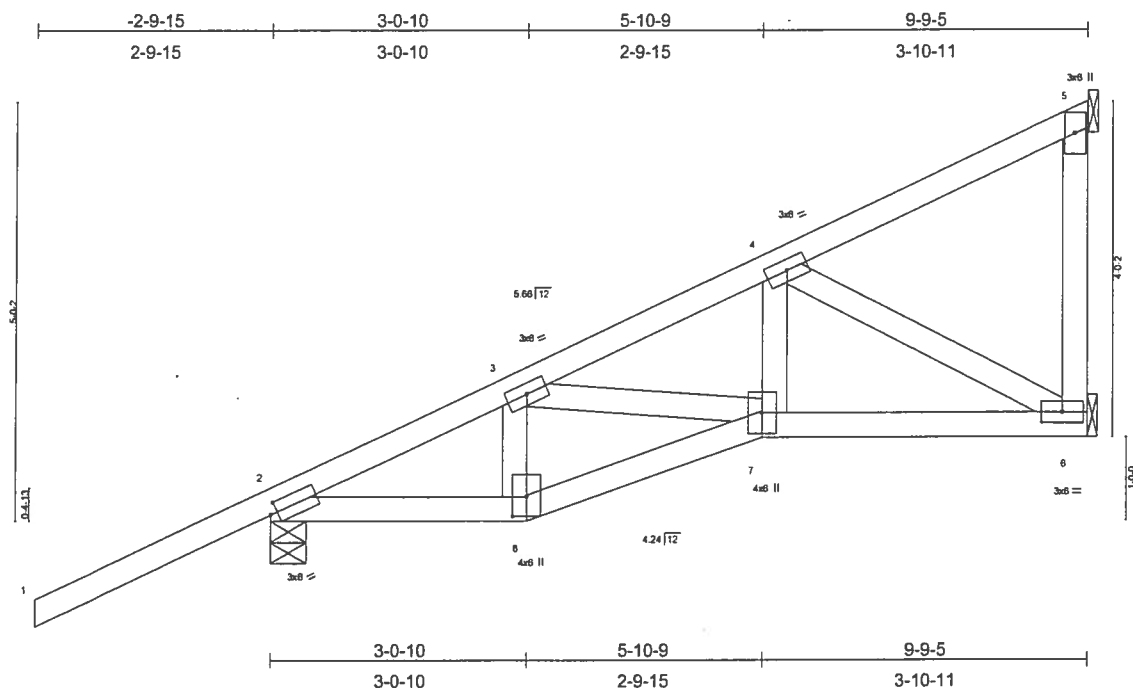


Plate Offsets (X,Y): 12:0-1-0, 0-1-8, 8:0-2-13, 0-2-0

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.54  | Vert(LL) | -0.02 | 6-7   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.31  | Vert(TL) | -0.02 | 6-7   | >999   | 180 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.21  | Horz(TL) | 0.01  | 6     | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr NO   | (Matrix) |          |       |       |        |     |               |         |
|               | Code FBC2001/ANSI95  |          |          |       |       |        |     | Weight: 55 lb |         |

**LUMBER**

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

**BRACING**

TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 5=187/Mechanical, 6=444/Mechanical, 2=526/0-4-15  
 Max Horz 2=420(load case 4)  
 Max Uplift 5=233(load case 4), 6=195(load case 4), 2=293(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/62, 2-3=510/0, 3-4=737/155, 4-5=123/44, 5-6=0/0  
 BOT CHORD 2-8=-175/419, 7-8=-175/453, 6-7=-417/632  
 WEBS 3-8=-157/161, 3-7=-260/253, 4-7=0/279, 4-6=-672/443

**NOTES**

- 1) Wind: ASCE 7-98; 120mph (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 233 lb uplift at joint 5, 195 lb uplift at joint 6 and 293 lb uplift at joint 2.
- 4) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 5) 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**

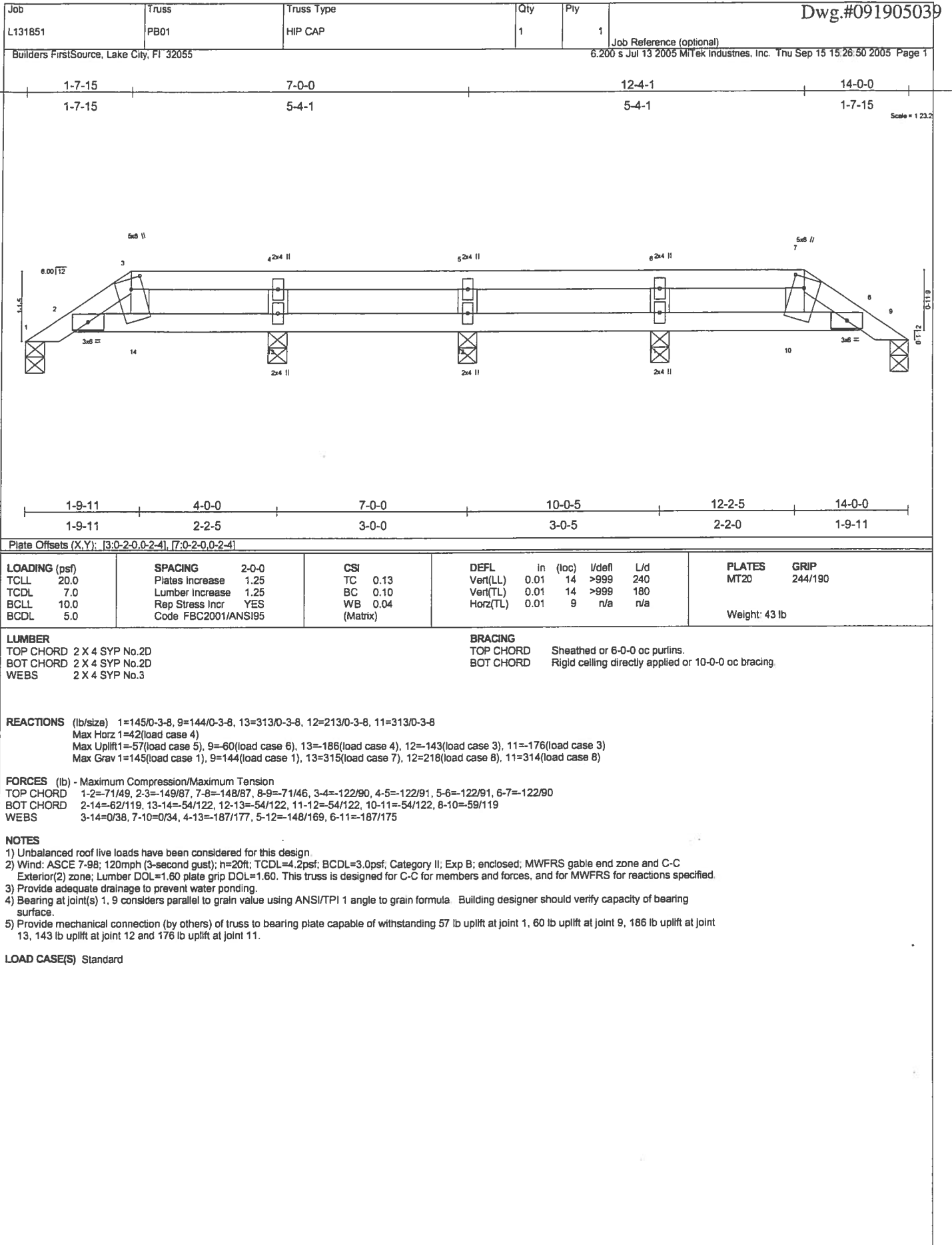
1) Regular: Lumber Increase=1.25, Plate Increase=1.25

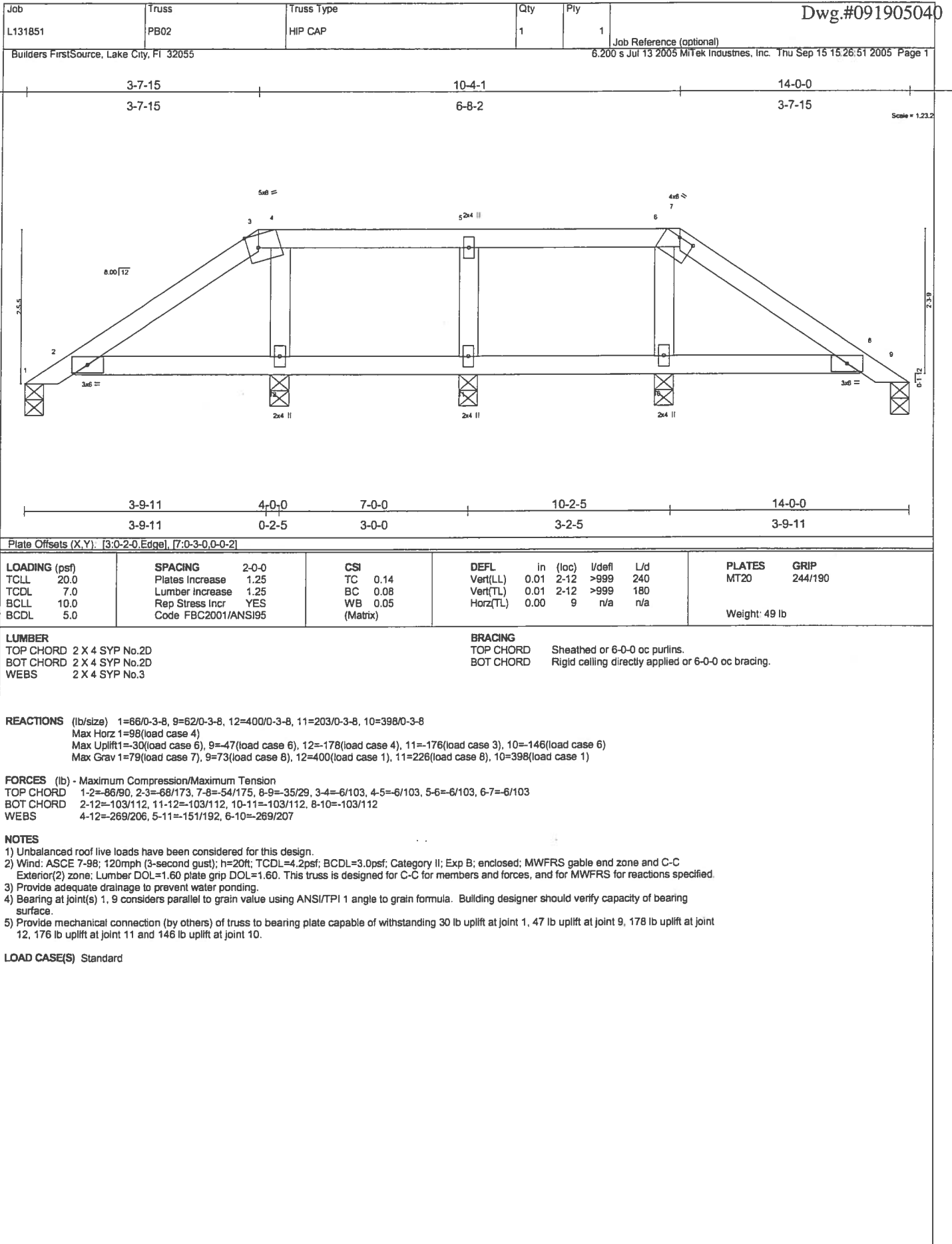
Uniform Loads (plf)

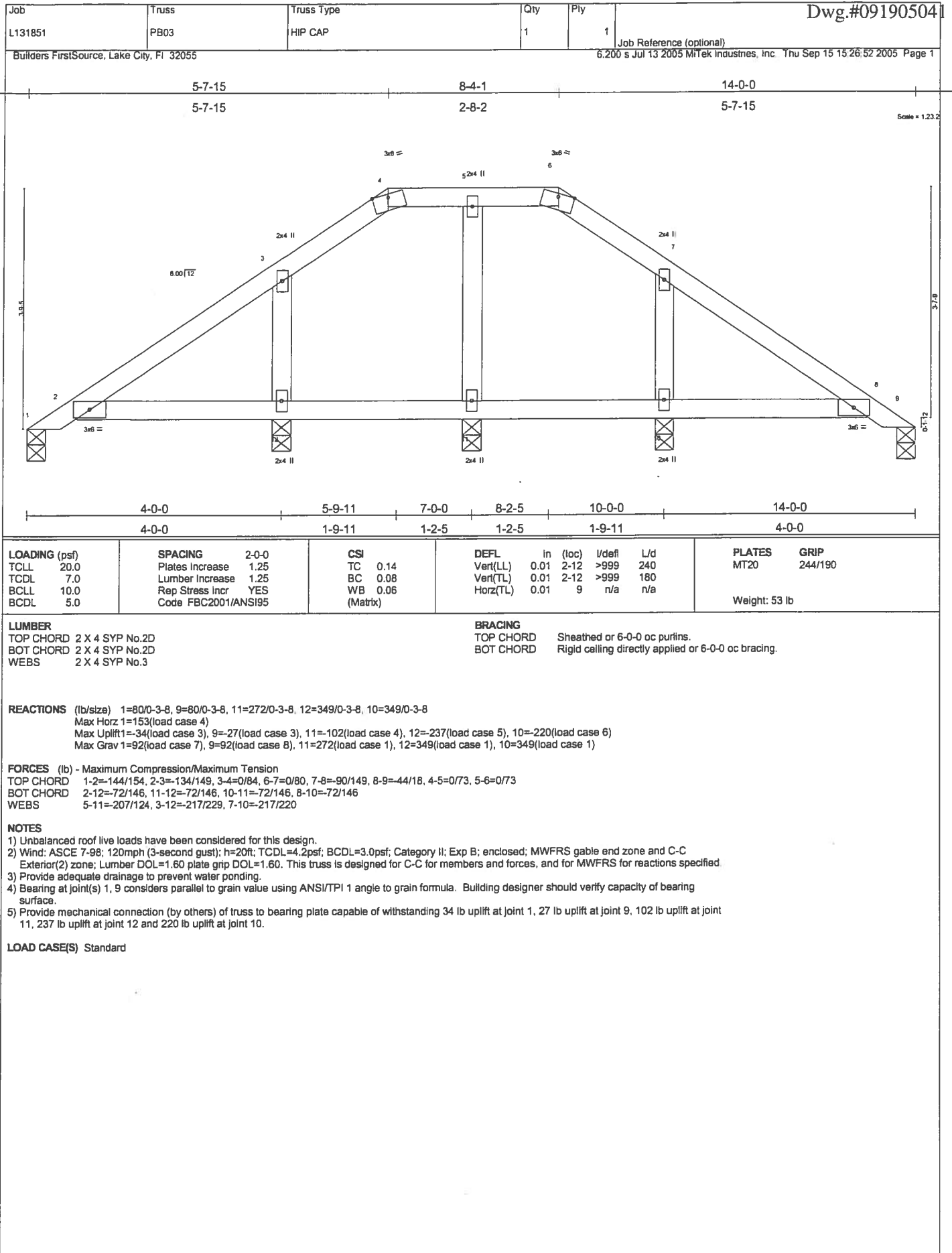
Vert: 1-2=-54

Trapezoidal Loads (plf)

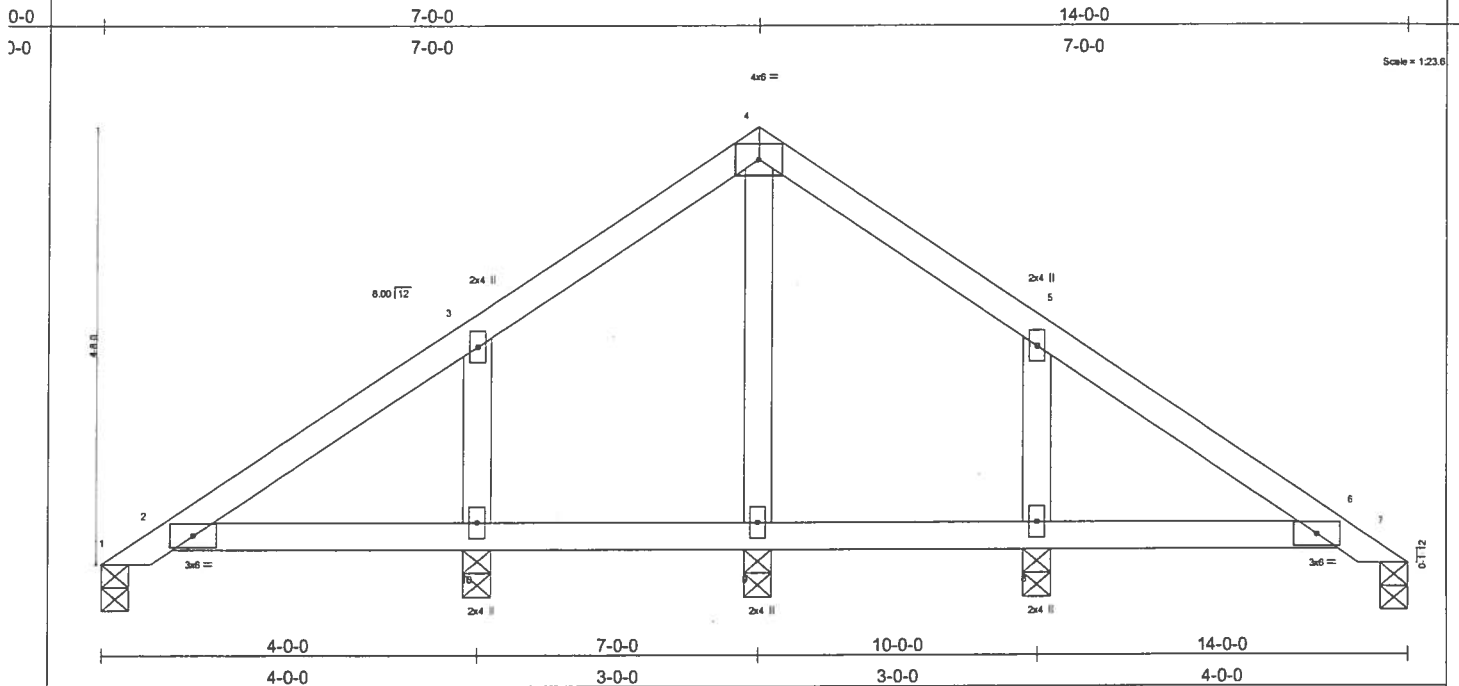
Vert: 2=-3(F=26, B=26)-to-5=-134(F=-40, B=40), 2=-0(F=15, B=15)-to-8=-22(F=4, B=4), 8=-22(F=4, B=4)-to-7=-45(F=-7, B=7), 7=-45(F=-7, B=7)-to-6=-74(F=-22, B=22)

SEPTEMBER 19, 2005 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

SEPTEMBER 19, 2005 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                                       | Truss | Truss Type | Qty                                                                                                    | Ply | Dwg.#091905042 |
| L131851                                   | PB04  | PIGGYBACK  | 4                                                                                                      | 1   |                |
| Builders FirstSource, Lake City, FL 32055 |       |            | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Sep 15 15:26:53 2005 Page 1 |     |                |



|                      |                      |            |                             |               |             |
|----------------------|----------------------|------------|-----------------------------|---------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                 | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2'-0"                | TC 0.13    | in (loc) l/defl L/d         | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.07    | Vert(LL) 0.01 2-10 >999 240 |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.09    | Vert(TL) 0.01 2-10 >999 180 |               |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) 0.00 7 n/a n/a     |               |             |
|                      | Code FBC2001/ANSI95  |            |                             | Weight: 55 lb |             |

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

**BRACING**  
TOP CHORD Sheathed or 6'-0" oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6'-0" oc bracing.

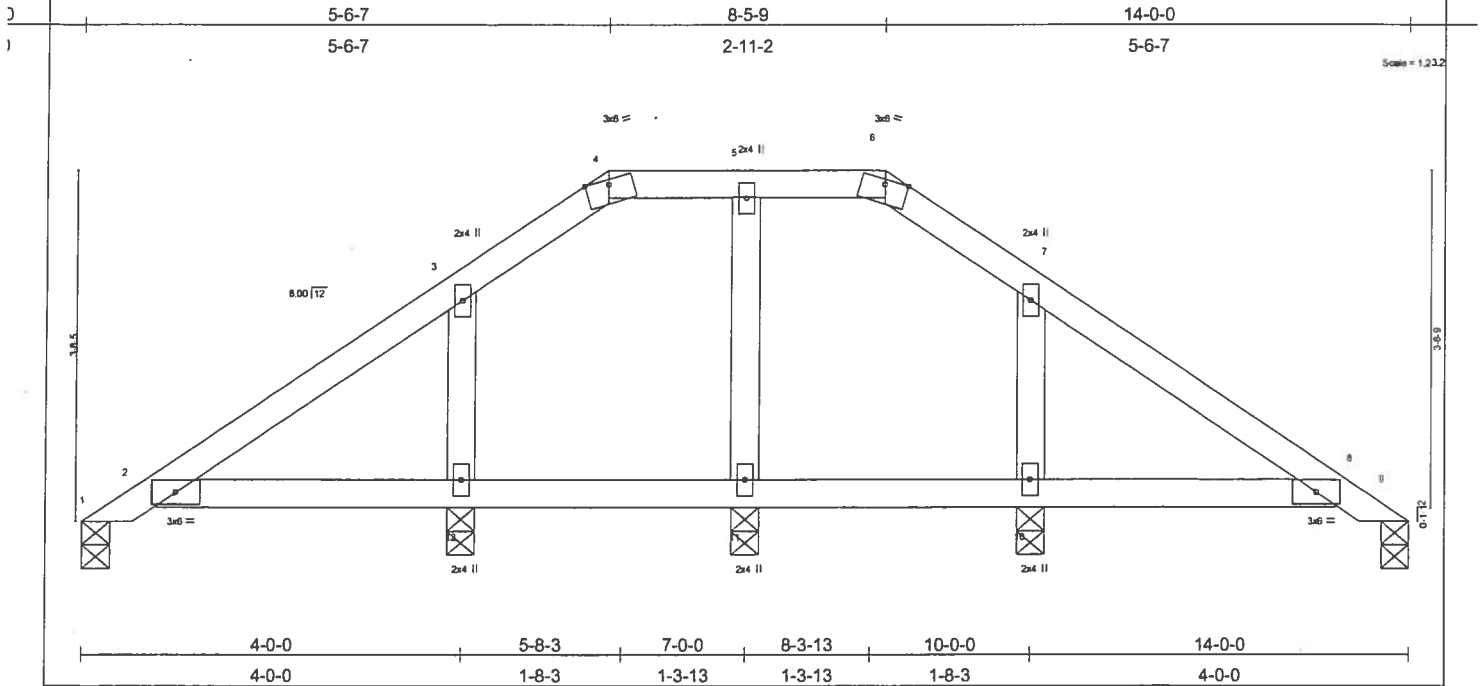
**REACTIONS** (lb/size) 1=62/0-3-8, 7=62/0-3-8, 9=349/0-3-8, 10=328/0-3-8, 8=328/0-3-8  
Max Horz 1=189(load case 4)  
Max Uplift 1=50(load case 3), 7=21(load case 6), 9=54(load case 5), 10=254(load case 5), 8=243(load case 6)  
Max Grav 1=75(load case 7), 7=75(load case 8), 9=349(load case 1), 10=336(load case 7), 8=336(load case 8)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-192/193, 2-3=-158/189, 3-4=-49/168, 4-5=-13/168, 5-6=-103/189, 6-7=-36/15  
BOT CHORD 2-10=-107/155, 9-10=-107/155, 8-9=-107/155, 6-8=-107/155  
WEBS 4-9=-282/82, 3-10=-207/248, 5-8=-207/243

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-98: 120mph (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) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.  
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 50 lb uplift at joint 1, 21 lb uplift at joint 7, 54 lb uplift at joint 9, 254 lb uplift at joint 10 and 243 lb uplift at joint 8.

**LOAD CASE(S)** Standard

|                                           |               |                       |                                                                                                        |          |                |
|-------------------------------------------|---------------|-----------------------|--------------------------------------------------------------------------------------------------------|----------|----------------|
| Job<br>L131851                            | Truss<br>PB05 | Truss Type<br>HIP CAP | Qty<br>1                                                                                               | Ply<br>1 | Dwg.#091905043 |
| Builders FirstSource, Lake City, FL 32055 |               |                       | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Sep 15 15:26:53 2005 Page 1 |          |                |



| LOADING (psf) | SPACING              | CSI      | DEFL                        | PLATES        | GRIP    |
|---------------|----------------------|----------|-----------------------------|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.14  | in (loc) l/defl L/d         | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.08  | Vert(LL) 0.01 2-12 >999 240 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.06  | Vert(TL) 0.01 2-12 >999 180 |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) | Horz(TL) 0.01 9 n/a n/a     |               |         |
|               | Code FBC2001/ANSI95  |          |                             | Weight: 53 lb |         |

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

**BRACING**  
TOP CHORD Sheathed or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

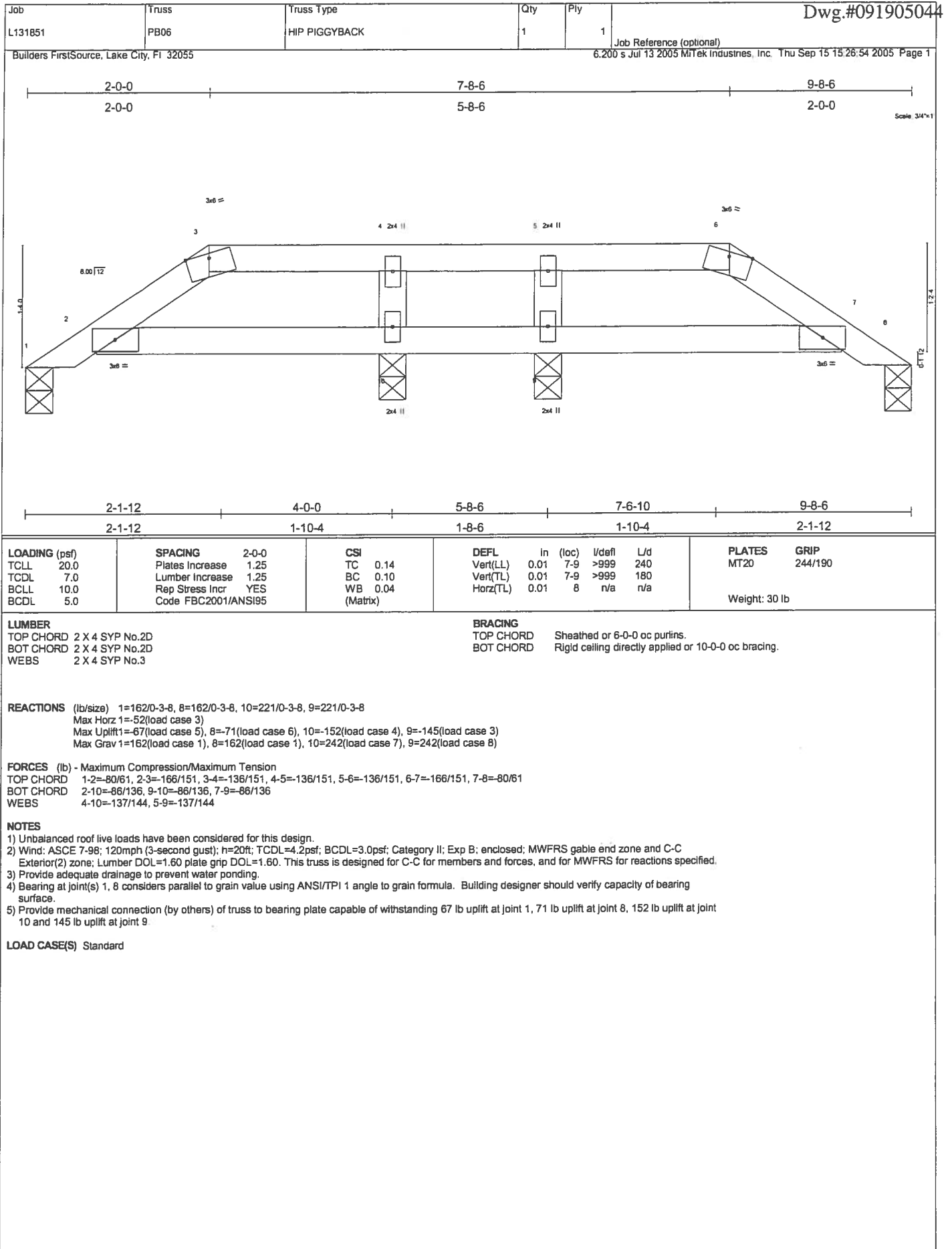
**REACTIONS** (lb/size) 1=80/0-3-8, 9=80/0-3-8, 12=351/0-3-8, 10=351/0-3-8, 11=266/0-3-8  
Max Horz 1=150(load case 4)  
Max Uplift 1=33(load case 3), 9=28(load case 3), 12=234(load case 5), 10=216(load case 6), 11=108(load case 4)  
Max Grav 1=93(load case 7), 9=93(load case 8), 12=351(load case 1), 10=351(load case 1), 11=266(load case 1)

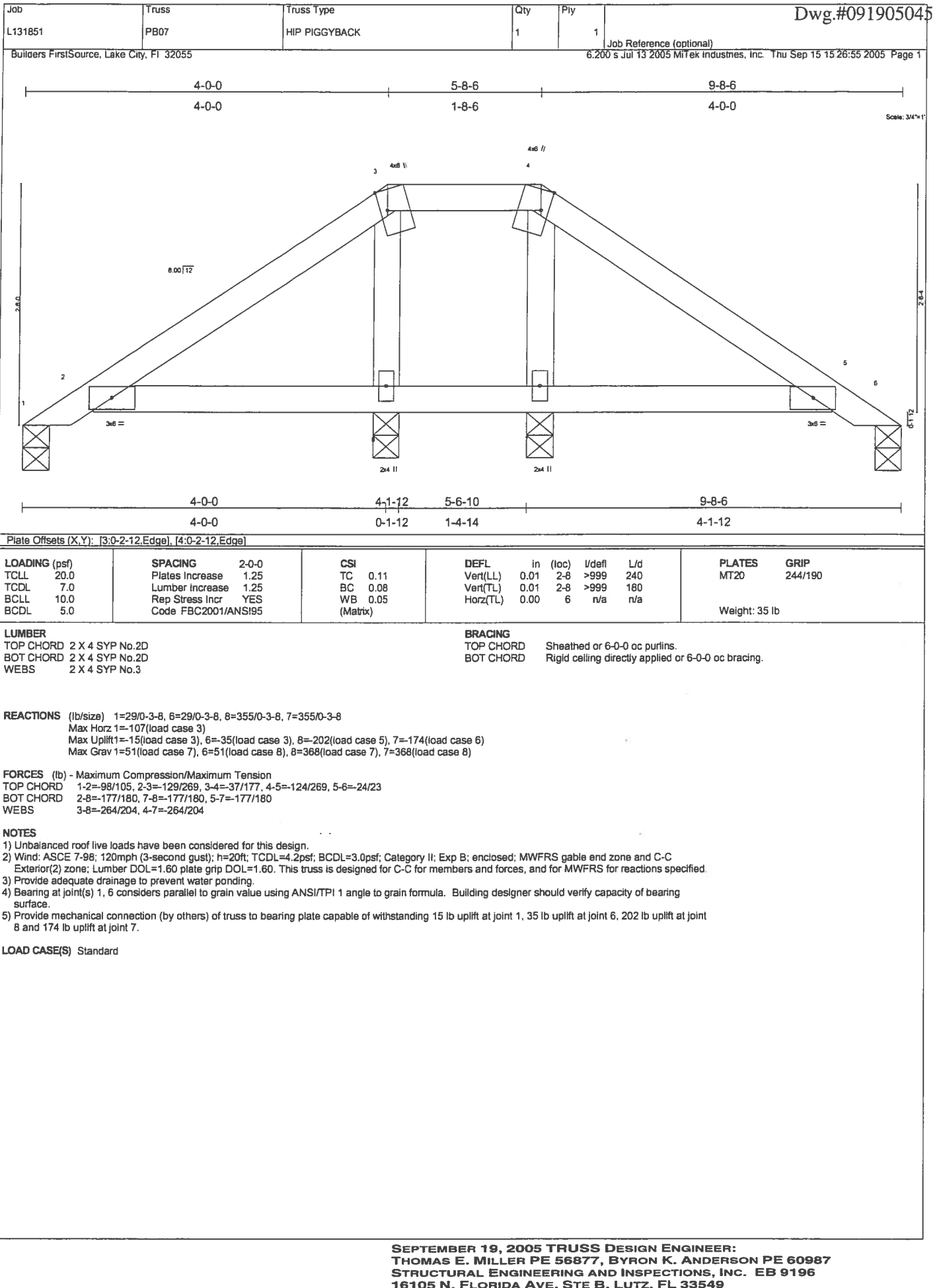
**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=140/151, 2-3=133/149, 3-4=0/83, 6-7=0/81, 7-8=92/149, 8-9=45/19, 4-5=0/72, 5-6=0/72  
BOT CHORD 2-12=72/148, 11-12=72/148, 10-11=72/148, 8-10=72/148  
WEBS 3-12=220/226, 7-10=220/218, 5-11=202/130

#### NOTES

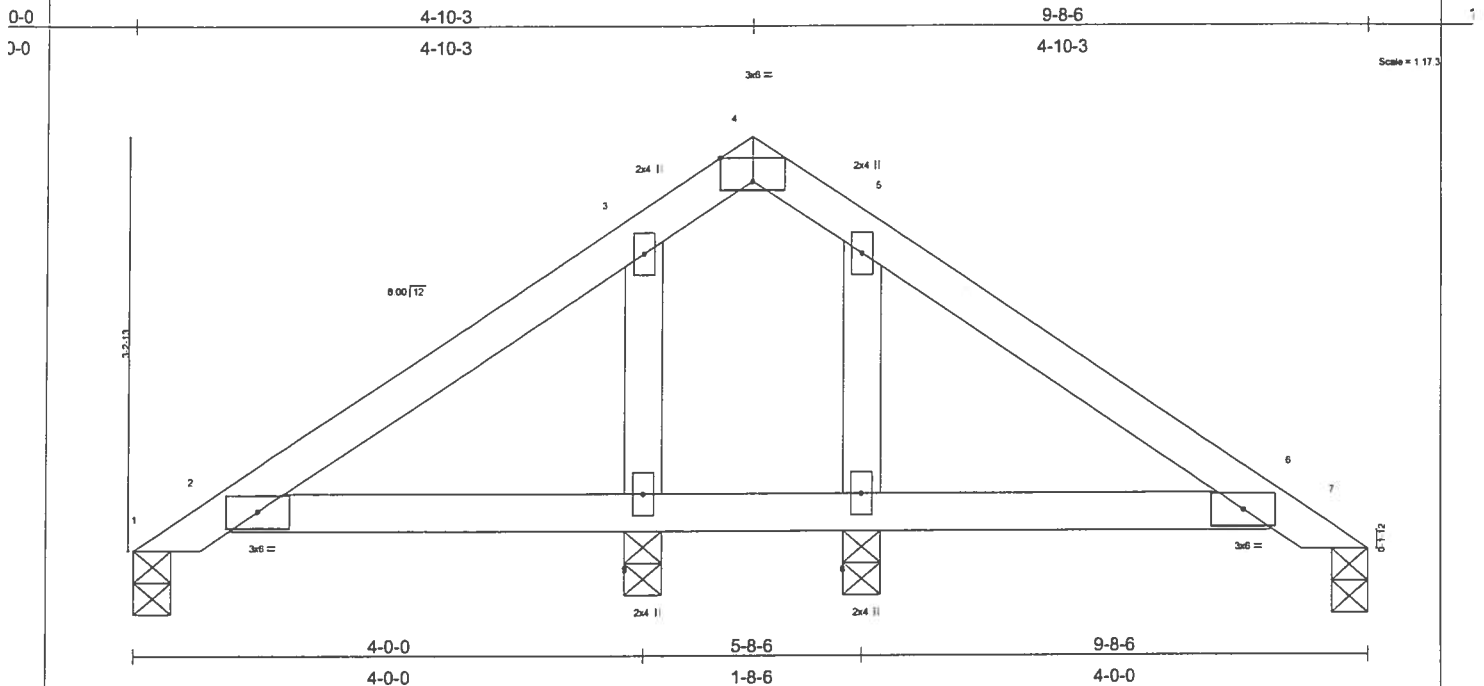
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
- Provide adequate drainage to prevent water ponding.
- Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 1, 28 lb uplift at joint 9, 234 lb uplift at joint 12, 216 lb uplift at joint 10 and 108 lb uplift at joint 11.

**LOAD CASE(S)** Standard

SEPTEMBER 19, 2005 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                                       | Truss | Truss Type | Qty                                                                                                    | Ply | Dwg.#091905046 |
| L131851                                   | PB08  | PIGGYBACK  | 3                                                                                                      | 1   |                |
| Builders FirstSource, Lake City, FL 32055 |       |            | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Sep 15 15:26:56 2005 Page 1 |     |                |



| Plate Offsets (X,Y) [4-0-3-0,Edge] |      |                      |  |          |  |          |  |          |     |            |  |               |  |         |  |
|------------------------------------|------|----------------------|--|----------|--|----------|--|----------|-----|------------|--|---------------|--|---------|--|
| LOADING (psf)                      |      | SPACING 2-0-0        |  | CSI      |  | DEFL     |  | in (loc) |     | l/defl L/d |  | PLATES        |  | GRIP    |  |
| TCLL                               | 20.0 | Plates Increase 1.25 |  | TC 0.12  |  | Vert(LL) |  | 0.01     | 2-9 | >999 240   |  | MT20          |  | 244/190 |  |
| TCDL                               | 7.0  | Lumber Increase 1.25 |  | BC 0.08  |  | Vert(TL) |  | 0.01     | 2-9 | >999 180   |  |               |  |         |  |
| BCLL                               | 10.0 | Rep Stress Incr YES  |  | WB 0.05  |  | Horz(TL) |  | 0.00     | 7   | n/a n/a    |  |               |  |         |  |
| BCDL                               | 5.0  | Code FBC2001/ANSI95  |  | (Matrix) |  |          |  |          |     |            |  | Weight: 35 lb |  |         |  |

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

**BRACING**  
TOP CHORD Sheathed or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

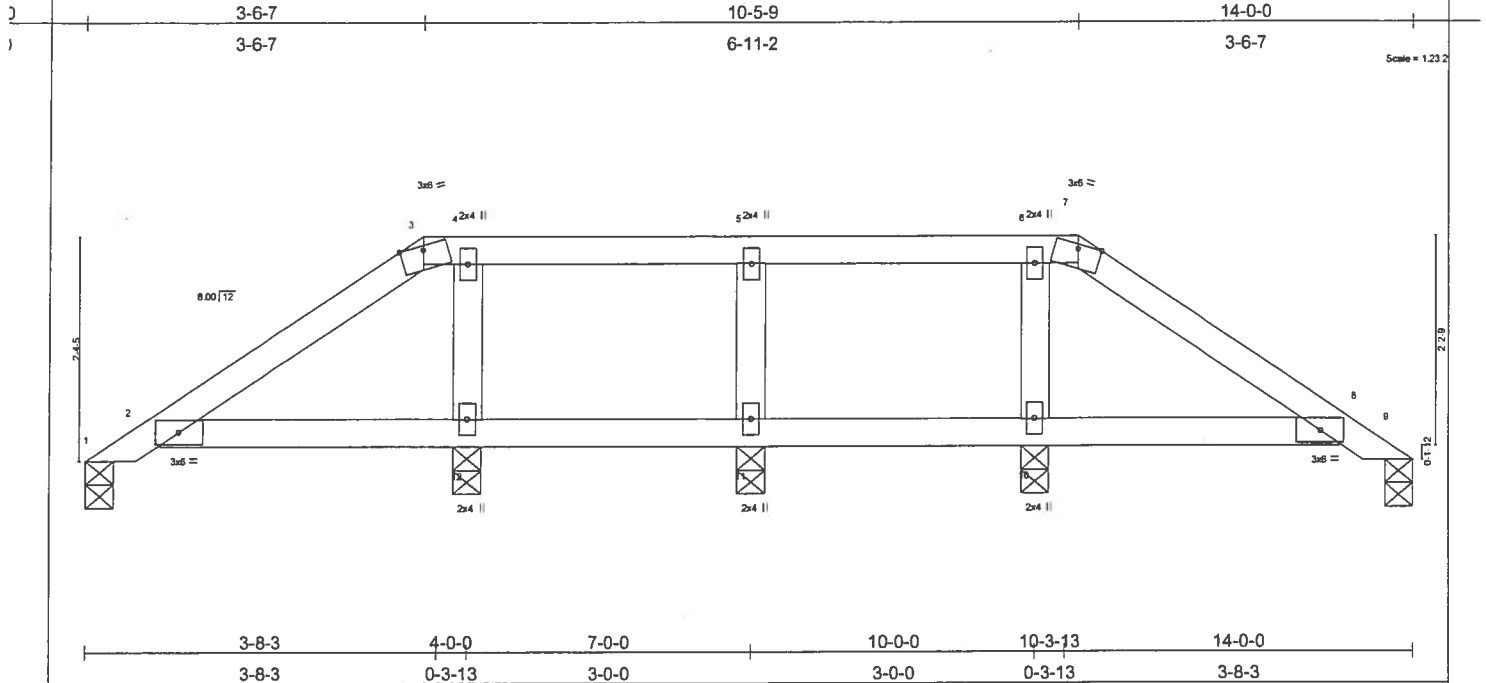
**REACTIONS** (lb/size) 1=40/0-3-8, 7=40/0-3-8, 9=343/0-3-8, 8=343/0-3-8  
Max Horz 1=130(load case 3)  
Max Uplift 1=13(load case 3), 7=19(load case 3), 9=230(load case 5), 8=203(load case 6)  
Max Grav 1=60(load case 7), 7=60(load case 8), 9=350(load case 7), 8=350(load case 8)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-126/123, 2-3=-163/240, 3-4=-31/124, 4-5=-38/124, 5-6=-163/240, 6-7=-28/14  
BOT CHORD 2-8=-149/212, 8-9=-149/212, 6-8=-149/212  
WEBS 3-9=-253/217, 5-8=-253/208

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-98; 120mph (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.
  - Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1, 19 lb uplift at joint 7, 230 lb uplift at joint 9 and 203 lb uplift at joint 8.

**LOAD CASE(S)** Standard

|                                           |               |                       |                                                                            |          |                |
|-------------------------------------------|---------------|-----------------------|----------------------------------------------------------------------------|----------|----------------|
| Job<br>L131851                            | Truss<br>PB09 | Truss Type<br>HIP CAP | Qty<br>1                                                                   | Ply<br>1 | Dwg.#091905047 |
| Builders FirstSource, Lake City, FL 32055 |               |                       | 6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Sep 15 15:26:56 2005 Page 1 |          |                |



|                      |                      |            |                             |               |             |
|----------------------|----------------------|------------|-----------------------------|---------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                 | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.14    | in (loc) l/defl L/d         | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.08    | Vert(LL) 0.01 2-12 >999 240 |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.05    | Vert(TL) 0.01 2-12 >999 180 |               |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) 0.01 9 n/a n/a     |               |             |
|                      | Code FBC2001/ANSI95  |            |                             | Weight: 49 lb |             |

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

**BRACING**  
TOP CHORD Sheathed or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

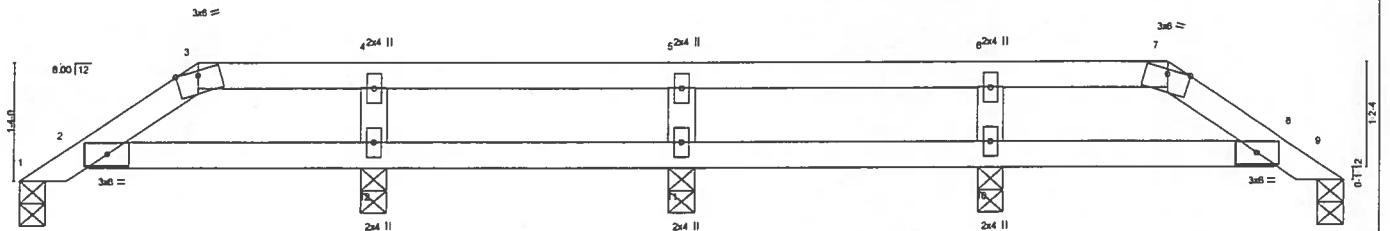
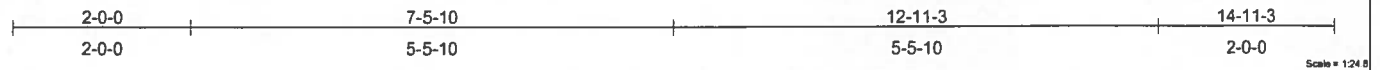
**REACTIONS** (lb/size) 1=79/0-3-8, 9=79/0-3-8, 12=391/0-3-8, 10=391/0-3-8, 11=188/0-3-8  
Max Horz 1=95(load case 4)  
Max Uplift 1=38(load case 6), 9=57(load case 6), 12=182(load case 4), 10=140(load case 3), 11=173(load case 3)  
Max Grav 1=87(load case 7), 9=87(load case 8), 12=391(load case 1), 10=391(load case 1), 11=212(load case 8)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=83/86, 2-3=61/140, 7-8=30/140, 8-9=42/34, 3-4=10/78, 4-5=10/78, 5-6=10/78, 6-7=10/78  
BOT CHORD 2-12=78/92, 11-12=78/92, 10-11=78/92, 8-10=78/92  
WEBS 4-12=256/198, 6-10=256/198, 5-11=142/188

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-98; 120mph (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 adequate drainage to prevent water ponding.  
4) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.  
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1, 57 lb uplift at joint 9, 182 lb uplift at joint 12, 140 lb uplift at joint 10 and 173 lb uplift at joint 11.

**LOAD CASE(S)** Standard

|                                           |               |                             |                                                                                                        |          |                |
|-------------------------------------------|---------------|-----------------------------|--------------------------------------------------------------------------------------------------------|----------|----------------|
| Job<br>L131851                            | Truss<br>PB10 | Truss Type<br>HIP PIGGYBACK | Qty<br>1                                                                                               | Ply<br>1 | Dwg.#091905048 |
| Builders FirstSource, Lake City, FL 32055 |               |                             | Job Reference (optional)<br>6.200 s Jul 13 2005 MiTek Industries, Inc. Thu Sep 15 15:26:57 2005 Page 1 |          |                |



|                      |                      |            |                             |               |             |
|----------------------|----------------------|------------|-----------------------------|---------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                 | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.12    | in (loc) l/defl L/d         | MT20          | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.10    | Vert(LL) 0.01 2-12 >999 240 |               |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.05    | Vert(TL) 0.01 2-12 >999 180 |               |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) 0.01 9 n/a n/a     |               |             |
|                      | Code FBC2001/ANSI95  |            |                             | Weight: 46 lb |             |

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

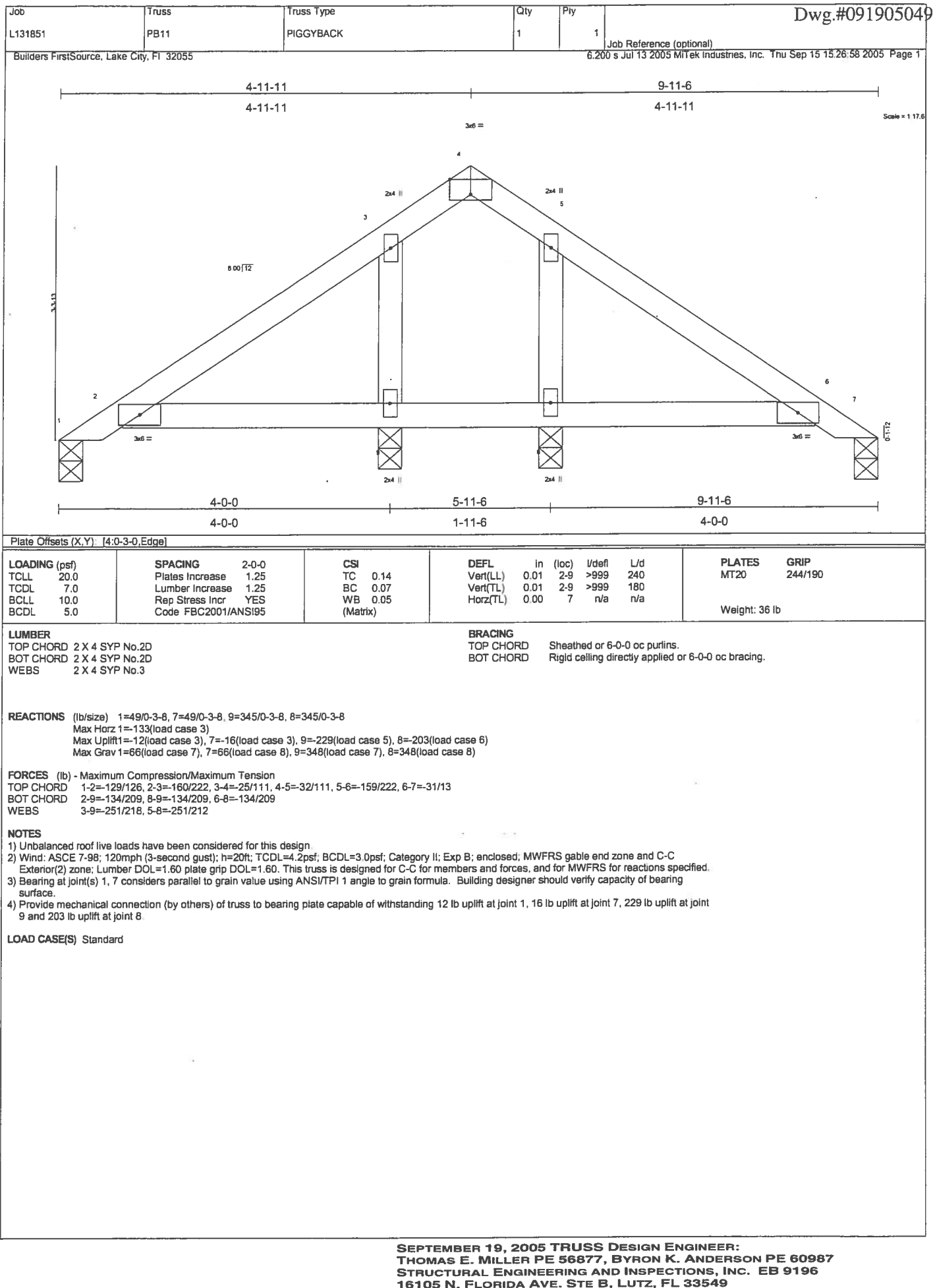
**BRACING**  
TOP CHORD Sheathed or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS (lb/size)** 1=143/0-3-8, 9=143/0-3-8, 12=327/0-3-8, 11=266/0-3-8, 10=327/0-3-8  
Max Horz 1=52(load case 4)  
Max Uplift 1=62(load case 5), 9=67(load case 6), 12=189(load case 4), 11=180(load case 3), 10=177(load case 3)  
Max Grav 1=143(load case 1), 9=143(load case 1), 12=330(load case 7), 11=272(load case 7), 10=330(load case 8)

**FORCES (lb)** - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-70/54, 2-3=-116/89, 3-4=-91/94, 4-5=-91/94, 5-6=-91/94, 6-7=-91/94, 7-8=-116/89, 8-9=-70/47  
BOT CHORD 2-12=-51/91, 11-12=-51/91, 10-11=-51/91, 8-10=-51/91  
WEBS 4-12=-194/192, 5-11=-183/203, 6-10=-194/185

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-98; 120mph (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 adequate drainage to prevent water ponding.  
4) Bearing at joint(s) 1, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.  
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 1, 67 lb uplift at joint 9, 189 lb uplift at joint 12, 180 lb uplift at joint 11 and 177 lb uplift at joint 10.

**LOAD CASE(S)** Standard



|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905050           |
| L131851 | T01   | SPECIAL    | 1   | 1   | Job Reference (optional) |

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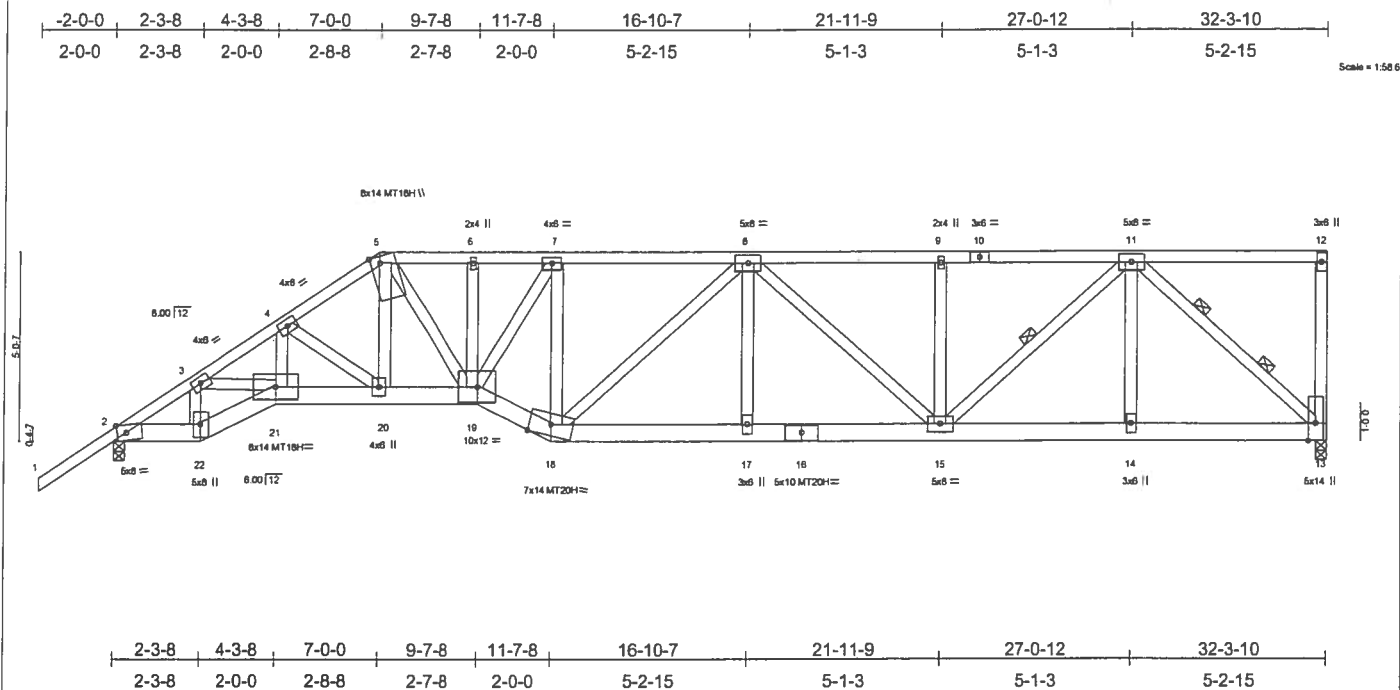


Plate Offsets (X,Y): [2:0-2:14,Edge], [5:0-2:2,Edge]

| LOADING (psf) | SPACING             | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES | GRIP           |
|---------------|---------------------|-------|----------|----------|-------|-------|--------|-----|--------|----------------|
| TCLL 20.0     | Plates Increase     | 1.25  | TC 0.90  | Vert(LL) | 0.39  | 17    | >979   | 240 | MT20   | 244/190        |
| TCDL 7.0      | Lumber Increase     | 1.25  | BC 0.88  | Vert(TL) | -0.44 | 17-18 | >871   | 180 | MT20H  | 187/143        |
| BCLL 10.0     | Rep Stress Incr     | NO    | WB 0.80  | Horz(TL) | 0.18  | 13    | n/a    | n/a | MT18H  | 244/190        |
| BCDL 5.0      | Code FBC2001/ANSI95 |       | (Matrix) |          |       |       |        |     |        | Weight: 234 lb |

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 6 SYP No.1D  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Sheathed or 2-3-1 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 4-1-2 oc bracing.  
WEBS 1 Row at midpt 11-15  
2 Rows at 1/3 pts 11-13

REACTIONS (lb/size) 13=2967/0-3-8, 2=2859/0-3-8

Max Horz 2=362(load case 4)

Max Uplift 13=-2278(load case 2), 2=-1863(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/62, 2-3=-4531/3063, 3-4=-6661/4684, 4-5=-5556/4027, 5-6=-5429/3985, 6-7=-5428/3986, 7-8=-4907/3653, 8-9=-4510/3433, 9-10=-4510/3433, 10-11=-4510/3433, 11-12=-63/62, 12-13=-279/361

BOT CHORD 2-22=-2622/3671, 21-22=-2737/3852, 20-21=-3912/5429, 19-20=-3437/4675, 18-19=-3919/5275, 17-18=-3940/5215, 16-17=-3940/5214, 15-16=-3940/5214, 14-15=-2152/2813, 13-14=-2152/2813

WEBS 3-22=-1571/1156, 3-21=-1489/2039, 4-21=-717/1108, 4-20=-1005/688, 5-20=-1117/1620, 5-19=-1128/1340, 6-19=-85/195, 7-19=-800/1067, 7-18=-1426/1308, 8-18=-411/384, 8-17=-0/293, 8-15=-955/707, 9-15=-579/768, 11-15=-1735/2300, 11-14=-0/332, 11-13=-3727/2833

#### NOTES

1) Wind: ASCE 7-98; 120mph (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) Provide adequate drainage to prevent water ponding.

3) All plates are MT20 plates unless otherwise indicated.

4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2278 lb uplift at joint 13 and 1863 lb uplift at joint 2.

5) Girder carries hip end with 0-0-0 right side setback, 7-0-0 left side setback, and 7-0-0 end setback.

6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 506 lb up at 7-0-0 on bottom chord.

The design/selection of such connection device(s) is the responsibility of others.

7) 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: 1-5=-54, 5-12=-118(F=-64), 2-22=-30, 21-22=-30, 20-21=-30, 19-20=-65(F=-35), 18-19=-65(F=-35), 13-18=-65(F=-35)

Concentrated Loads (lb)

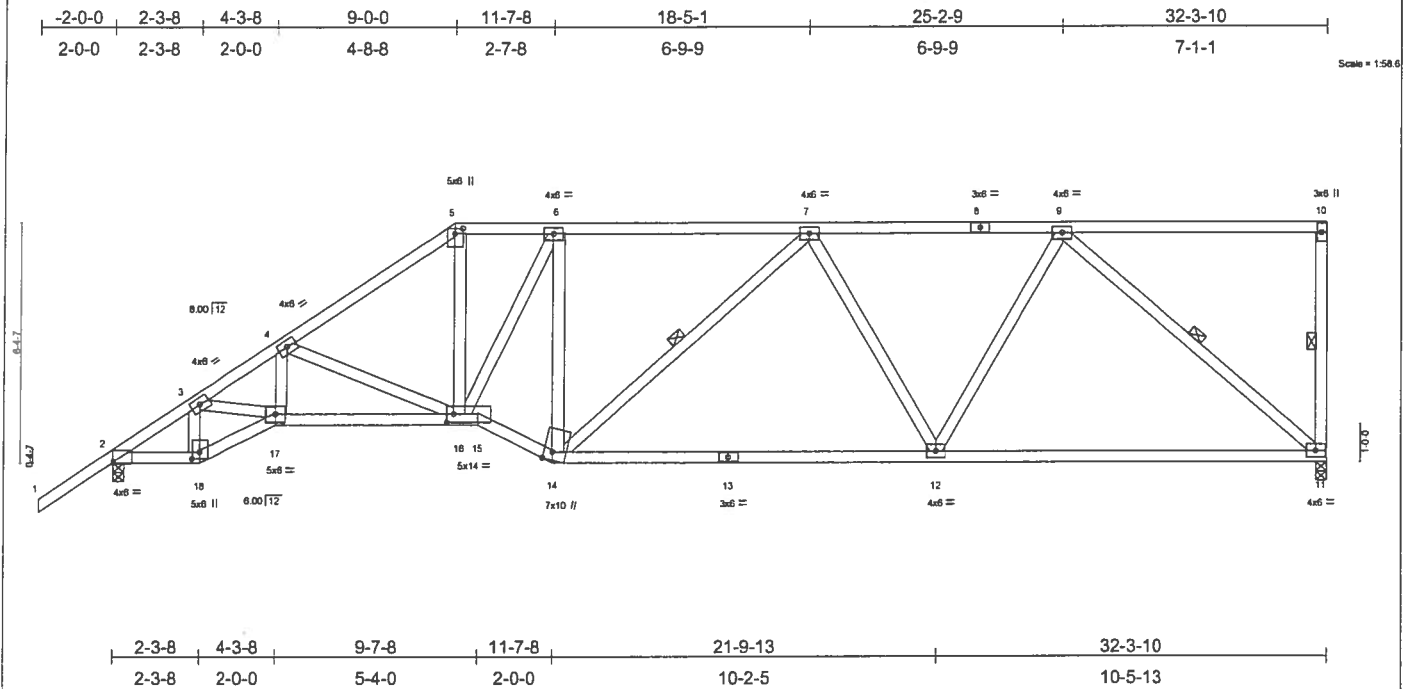
Vert: 20=-539(F)

|         |       |            |     |     |               |
|---------|-------|------------|-----|-----|---------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#09190505 |
| L131851 | T02   | SPECIAL    | 1   | 1   |               |

Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

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|                                                                                                             |                      |  |          |          |  |                |        |     |        |         |
|-------------------------------------------------------------------------------------------------------------|----------------------|--|----------|----------|--|----------------|--------|-----|--------|---------|
| Plate Offsets (X,Y): [2-0-0-0,0-0-4], [5-0-1-13,0-2-8], [14-0-2-9,Edge], [16-0-2-4,0-2-8], [18-0-2-4,0-2-8] |                      |  |          |          |  |                |        |     |        |         |
| LOADING (psf)                                                                                               | SPACING 2-0-0        |  | CSI      | DEFL     |  | In (loc)       | l/defl | L/d | PLATES | GRIP    |
| TCLL 20.0                                                                                                   | Plates Increase 1.25 |  | TC 0.61  | Vert(LL) |  | -0.23 12-14    | >999   | 240 | MT20   | 244/190 |
| TCCL 7.0                                                                                                    | Lumber Increase 1.25 |  | BC 0.66  | Vert(TL) |  | -0.33 12-14    | >999   | 180 |        |         |
| BCCL 10.0                                                                                                   | Rep Stress Incr YES  |  | WB 0.95  | Horz(TL) |  | 0.11 11        | n/a    | n/a |        |         |
| BCDL 5.0                                                                                                    | Code FBC2001/ANSI95  |  | (Matrix) |          |  |                |        |     |        |         |
|                                                                                                             |                      |  |          |          |  | Weight: 197 lb |        |     |        |         |

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| LUMBER                    | BRACING                                                        |
| TOP CHORD 2 X 4 SYP No.2D | TOP CHORD Sheathed or 3-8-8 oc purlins, except end verticals.  |
| BOT CHORD 2 X 4 SYP No.2D | BOT CHORD Rigid ceiling directly applied or 5-5-12 oc bracing. |
| WEBS 2 X 4 SYP No.3       | WEBS 1 Row at midpt 10-11, 7-14, 9-11                          |

REACTIONS (lb/size) 11=1341/0-3-8, 2=1464/0-3-8  
Max Horz 2=432(load case 5)  
Max Uplift 11=714(load case 3), 2=571(load case 5)

FORCES (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=2049/796, 3-4=3008/1444, 4-5=2123/1054, 5-6=1737/959, 6-7=1679/890, 7-8=1572/774, 8-9=1572/774, 9-10=57/18, 10-11=179/175  
BOT CHORD 2-18=873/1596, 17-18=920/1714, 16-17=1403/2452, 15-16=881/1670, 14-15=961/1785, 13-14=935/1747, 12-13=935/1747, 11-12=660/1217  
WEBS 3-18=728/466, 3-17=606/995, 4-17=228/623, 4-16=806/496, 6-16=226/153, 6-14=382/373, 7-14=91/230, 7-12=359/330, 9-12=243/727, 9-11=1542/854, 5-16=428/951

NOTES  
1) Wind: ASCE 7-98; 120mph (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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 714 lb uplift at joint 11 and 571 lb uplift at joint 2.

LOAD CASE(S) Standard

|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905052           |
| L131851 | T03   | SPECIAL    | 1   | 1   | Job Reference (optional) |

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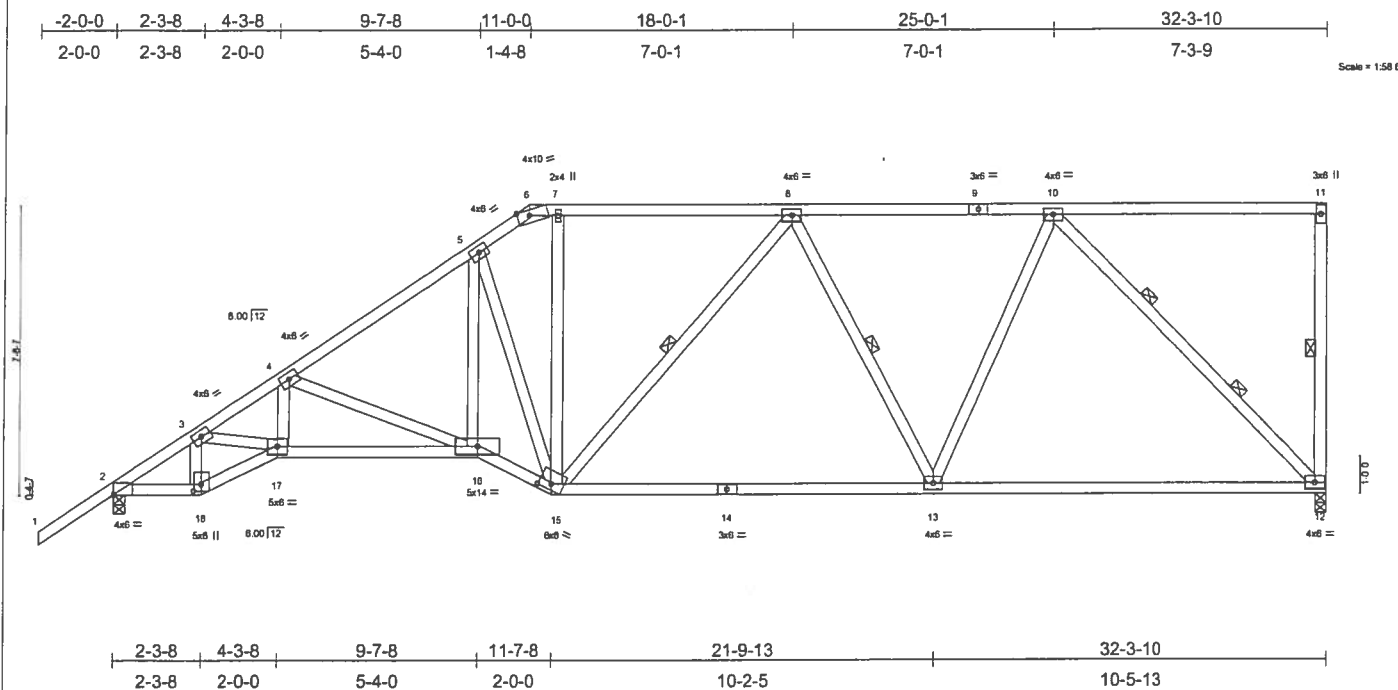


Plate Offsets (X,Y): [2-0-0-0,0-0-4], [6-0-4-0,Edge], [15-0-4-0,0-1-15], [18-0-2-4-0-2-8]

|                      |                      |            |                               |                |             |
|----------------------|----------------------|------------|-------------------------------|----------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                   | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.73    | in (loc) l/defl L/d           | MT20           | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.62    | Vert(LL) -0.23 13-15 >999 240 |                |             |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.71    | Vert(TL) -0.34 13-15 >999 180 |                |             |
| BCDL 5.0             | Rep Stress Incr YES  | (Matrix)   | Horz(TL) 0.11 12 n/a n/a      |                |             |
|                      | Code FBC2001/ANSI95  |            |                               | Weight: 210 lb |             |

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

**BRACING**  
TOP CHORD Sheathed or 3-7-5 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 5-4-5 oc bracing.  
WEBS 1 Row at midpt 11-12, 8-15, 8-13  
2 Rows at 1/3 pts 10-12

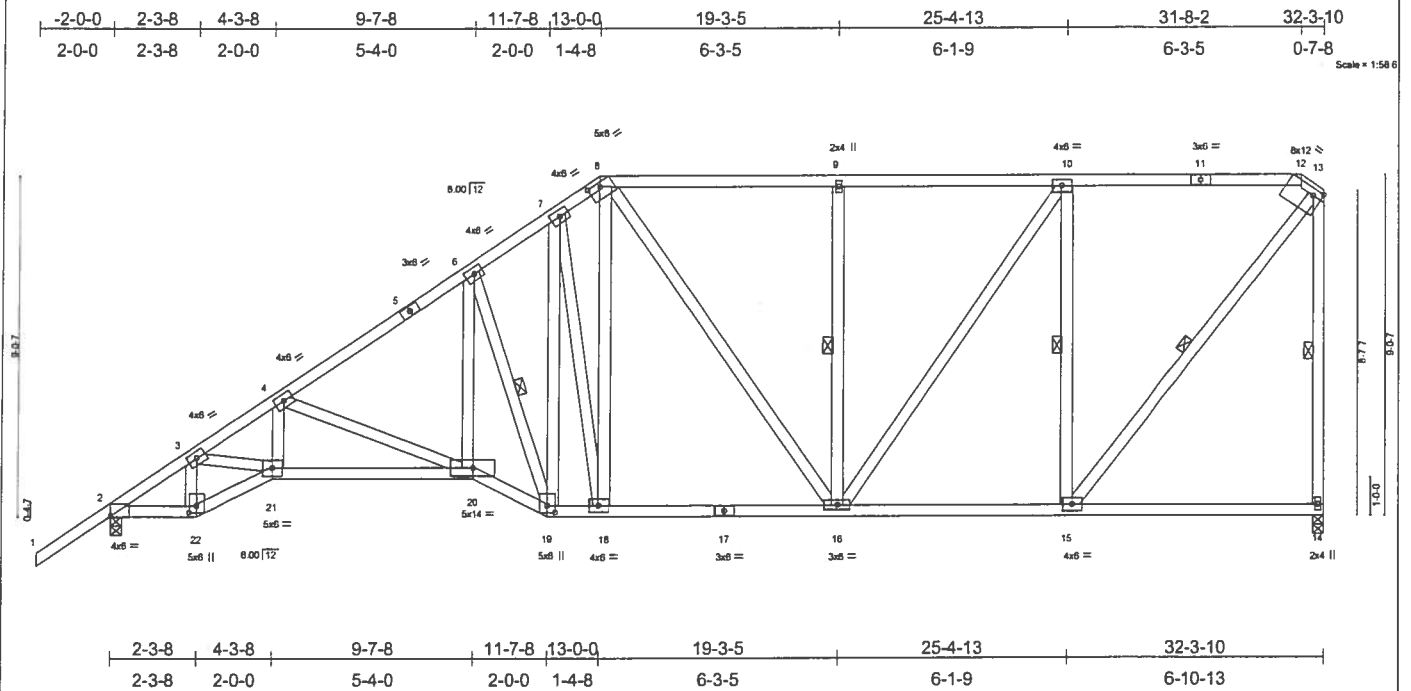
**REACTIONS** (lb/size) 12=1341/0-3-8, 2=1464/0-3-8  
Max Horz 2=505(load case 5)  
Max Uplift 12=670(load case 3), 2=589(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=2031/752, 3-4=3066/1458, 4-5=2045/985, 5-6=1498/797, 6-7=1360/750, 7-8=1360/750, 8-9=1290/652, 9-10=1290/652, 10-11=44/14, 11-12=181/177  
BOT CHORD 2-18=904/1578, 17-18=958/1708, 16-17=1492/2505, 15-16=1066/1805, 14-15=796/1441, 13-14=796/1441, 12-13=562/1024  
WEBS 3-18=757/494, 3-17=671/1075, 4-17=257/667, 4-16=941/588, 5-16=647/1137, 5-15=881/622, 8-15=127/292, 8-13=330/316, 10-13=226/675, 10-12=1411/793, 7-15=153/409

#### NOTES

- 1) Wind: ASCE 7-98; 120mph (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 gnp 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 670 lb uplift at joint 12 and 589 lb uplift at joint 2.

**LOAD CASE(S)** Standard



| Plate Offsets (X,Y): [2:0-0,0-0-4], [8:0-4,0-0-1-9], [13:Edge,0-2-2], [19:0-2-4,0-2-8], [22:0-2-4,0-2-8] |      |                     |      |          |      |          |             |                |      |
|----------------------------------------------------------------------------------------------------------|------|---------------------|------|----------|------|----------|-------------|----------------|------|
| LOADING (psf)                                                                                            |      | SPACING 2-0-0       |      | CSI      |      | DEFL     |             | PLATES         |      |
| TCLL                                                                                                     | 20.0 | Plates Increase     | 1.25 | TC       | 0.41 | in (loc) | I/defl      | L/d            | GRIP |
| TCDL                                                                                                     | 7.0  | Lumber Increase     | 1.25 | BC       | 0.53 | Vert(LL) | -0.16 20-21 | >999           | 240  |
| BCLL                                                                                                     | 10.0 | Rep Stress Incr     | YES  | WB       | 0.72 | Vert(TL) | -0.23 20-21 | >999           | 180  |
| BCDL                                                                                                     | 5.0  | Code FBC2001/ANSI95 |      | (Matrix) |      | Horz(TL) | 0.10 14     | n/a            | n/a  |
|                                                                                                          |      |                     |      |          |      |          |             | Weight: 257 lb |      |

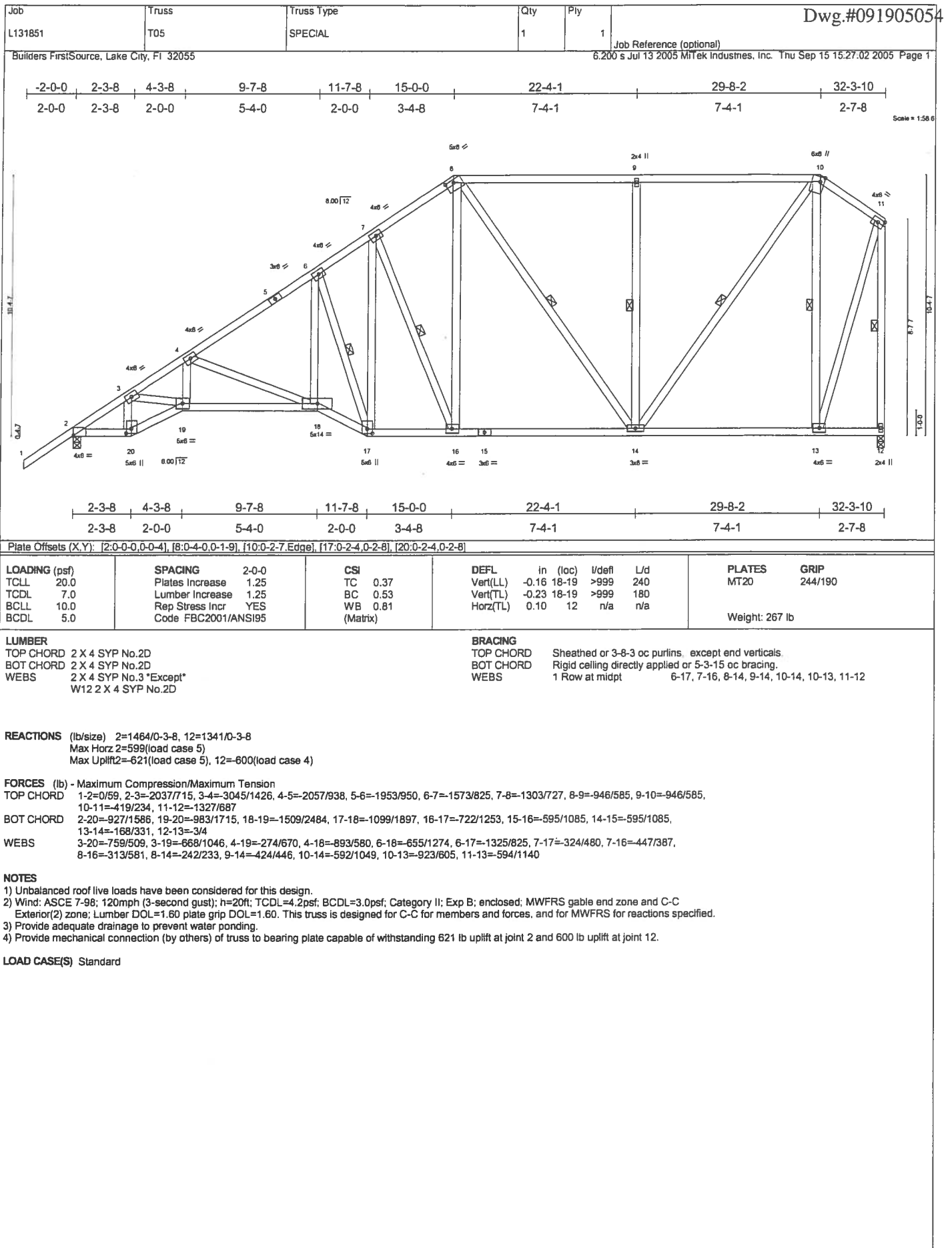
|                                                                                                                                |                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2D<br>BOT CHORD 2 X 4 SYP No.2D<br>WEBS 2 X 4 SYP No.3 *Except*<br>W12 2 X 4 SYP No.2D | <b>BRACING</b><br>TOP CHORD Sheathed or 3-8-3 oc purlins, except end verticals.<br>BOT CHORD Rigid ceiling directly applied or 5-3-11 oc bracing.<br>WEBS 1 Row at midpt 6-19, 9-16, 10-15, 13-14, 13-15 |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 2=1464/0-3-8, 14=1341/0-3-8  
 Max Horz 2=567(load case 5)  
 Max Uplift 2=603(load case 5), 14=740(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/59, 2-3=2037/724, 3-4=3044/1440, 4-5=2058/949, 5-6=1954/961, 6-7=1575/839, 7-8=1374/747, 8-9=1207/678, 9-10=1207/678,  
 10-11=847/483, 11-12=847/483, 12-13=803/487, 13-14=1248/756  
 BOT CHORD 2-22=935/1586, 21-22=991/1715, 20-21=1520/2483, 19-20=1111/1902, 18-19=726/1249, 17-18=689/1206, 16-17=689/1206,  
 15-16=485/847, 14-15=7/9  
 WEBS 3-22=759/513, 3-21=671/1044, 4-21=277/670, 4-20=890/575, 6-20=659/1280, 6-19=1344/843, 7-19=354/436, 7-18=290/302,  
 8-18=262/443, 8-16=234/149, 9-16=337/349, 10-16=361/626, 10-15=837/641, 13-15=766/1340

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-98; 120mph (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 adequate drainage to prevent water ponding.  
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 603 lb uplift at joint 2 and 740 lb uplift at joint 14.

**LOAD CASE(S)** Standard



|         |       |            |     |     |                |
|---------|-------|------------|-----|-----|----------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905055 |
| L131851 | T06   | SPECIAL    | 1   | 1   |                |

Job Reference (optional)

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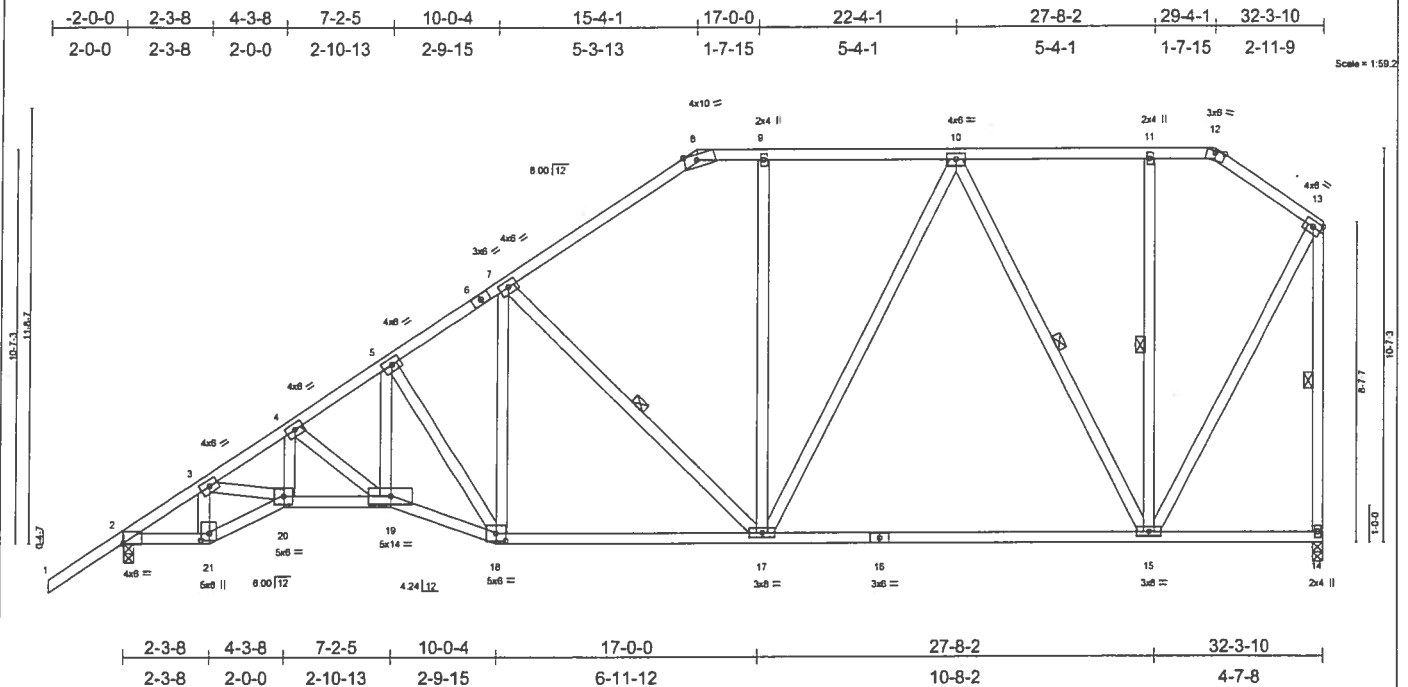


Plate Offsets (X,Y): [2:0-0-0,0-0-4], [8:0-4-0,Edge], [18:0-3-0,0-2-7], [21:0-2-4,0-2-8]

| LOADING (psf) | SPACING              | CSI      | DEFL           | in (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase 1.25 | TC 0.75  | Vert(LL) -0.32 | 15-17    | >999   | 240 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.59  | Vert(TL) -0.46 | 15-17    | >829   | 180 |                |         |
| BCLL 10.0     | Rep Stress Incr YES  | WB 0.90  | Horz(TL) 0.09  | 14       | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2001/ANSI95  | (Matrix) |                |          |        |     |                |         |
|               |                      |          |                |          |        |     | Weight: 245 lb |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2D  
 BOT CHORD 2 X 4 SYP No.2D  
 WEBS 2 X 4 SYP No.3 \*Except\*  
 W12 2 X 4 SYP No.2D

**BRACING**  
 TOP CHORD Sheathed or 3-8-6 oc purlins, except end verticals  
 BOT CHORD Rigid ceiling directly applied or 5-5-0 oc bracing.  
 WEBS 1 Row at midpt 7-17, 10-15, 11-15, 13-14

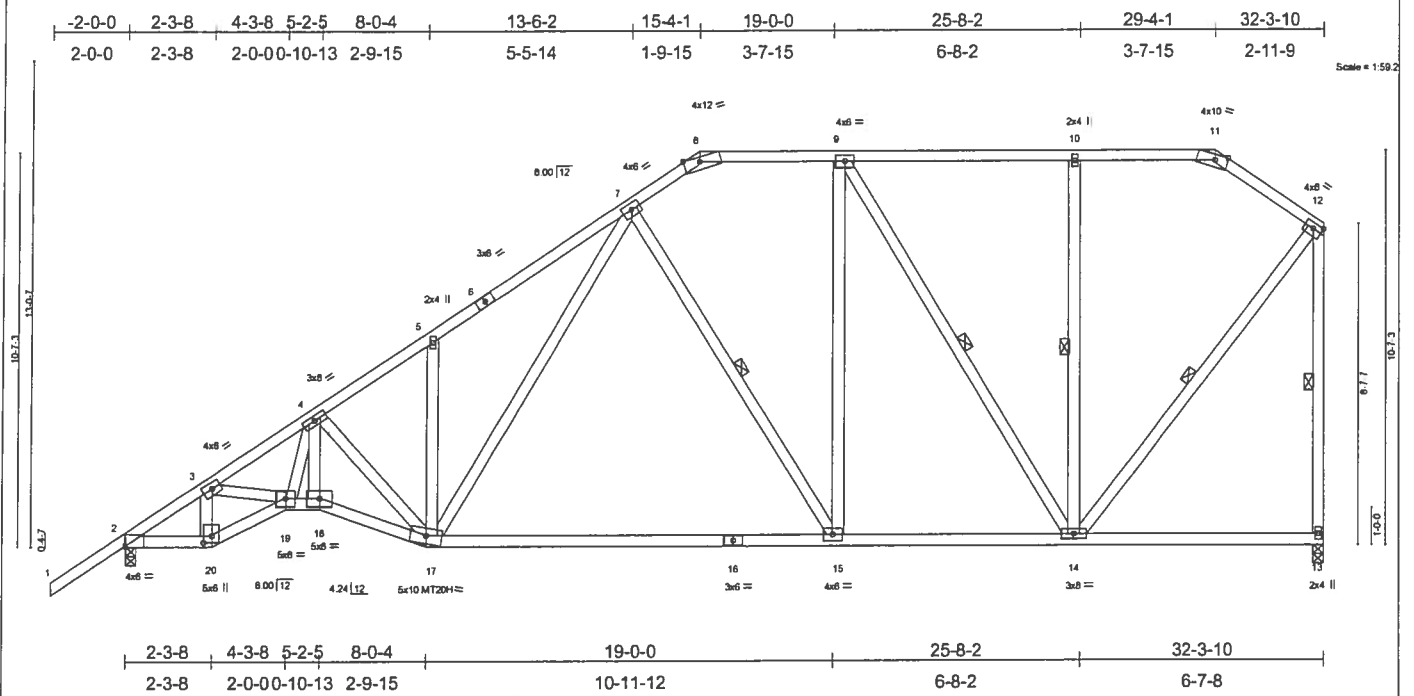
**REACTIONS** (lb/size) 2=1464/0-3-8, 14=1341/0-3-8  
 Max Horz 2=605(load case 5)  
 Max Uplift 2=623(load case 5), 14=577(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/59, 2-3=-2055/721, 3-4=-2993/1404, 4-5=-2313/1089, 5-6=-1693/788, 6-7=-1617/796, 7-8=-1247/659, 12-13=-634/353,  
 13-14=-1322/694, 8-9=-1031/644, 9-10=-1031/644, 10-11=-530/357, 11-12=-530/357  
 BOT CHORD 2-21=-940/1606, 20-21=-998/1725, 19-20=-1467/2422, 18-19=-1234/2074, 17-18=-792/1341, 16-17=-498/891, 15-16=-498/891, 14-15=-10/6  
 WEBS 3-21=-739/525, 3-20=-615/957, 4-20=-304/638, 4-19=-631/413, 5-19=-626/1115, 5-18=-1138/692, 7-18=-160/433, 7-17=-436/402,  
 9-17=-58/311, 10-17=-199/315, 10-15=-814/521, 11-15=-15/148, 13-15=-559/1113

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-98; 120mph (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 adequate drainage to prevent water ponding.  
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 623 lb uplift at joint 2 and 577 lb uplift at joint 14.

**LOAD CASE(S)** Standard

|                                                                             |       |            |                          |     |                |
|-----------------------------------------------------------------------------|-------|------------|--------------------------|-----|----------------|
| Job                                                                         | Truss | Truss Type | Qty                      | Ply | Dwg.#091905056 |
| L131851                                                                     | T07   | SPECIAL    | 1                        | 1   |                |
| Builders FirstSource Lake City FL 32055                                     |       |            | Job Reference (optional) |     |                |
| 6/2005 s Jul 13 2005 Mitek Industries, Inc. Thu Sep 15 15:27:04 2005 Page 1 |       |            |                          |     |                |



|                                                                                                           |      |                 |                |     |          |                         |       |       |      |             |       |                |
|-----------------------------------------------------------------------------------------------------------|------|-----------------|----------------|-----|----------|-------------------------|-------|-------|------|-------------|-------|----------------|
| Plate Offsets (X,Y): [2:0-0-0,0-0-4], [8:0-5-0,Edge], [11:0-4-0,Edge], [12:Edge,0-1-12], [20:0-2-4,0-2-8] |      |                 |                |     |          |                         |       |       |      |             |       |                |
| LOADING (psf)                                                                                             |      | SPACING 2-0-0   |                | CSI |          | DEFL in (loc) l/def L/d |       |       |      | PLATES GRIP |       |                |
| TCLL                                                                                                      | 20.0 | Plates Increase | 1.25           | TC  | 0.88     | Vert(LL)                | -0.43 | 15-17 | >902 | 240         | MT20  | 244/190        |
| TCDL                                                                                                      | 7.0  | Lumber Increase | 1.25           | BC  | 0.85     | Vert(TL)                | -0.62 | 15-17 | >621 | 180         | MT20H | 187/143        |
| BCLL                                                                                                      | 10.0 | Rep Stress Incr | YES            | WB  | 0.98     | Horz(TL)                | 0.07  | 13    | n/a  | n/a         |       |                |
| BCDL                                                                                                      | 5.0  | Code            | FBC2001/ANSI95 |     | (Matrix) |                         |       |       |      |             |       | Weight: 237 lb |

**LUMBER**  
TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.2D  
WEBS 2 X 4 SYP No.3 \*Except\*  
W12 2 X 4 SYP No.2D

|                |                                                                     |
|----------------|---------------------------------------------------------------------|
| <b>BRACING</b> |                                                                     |
| TOP CHORD      | Sheathed or 3-8-3 oc purlins, except end verticals.                 |
| BOT CHORD      | Rigid ceiling directly applied or 5-4-5 oc bracing.                 |
| WEBS           | 1 Row at midpt                      7-15, 9-14, 10-14, 12-13, 12-14 |

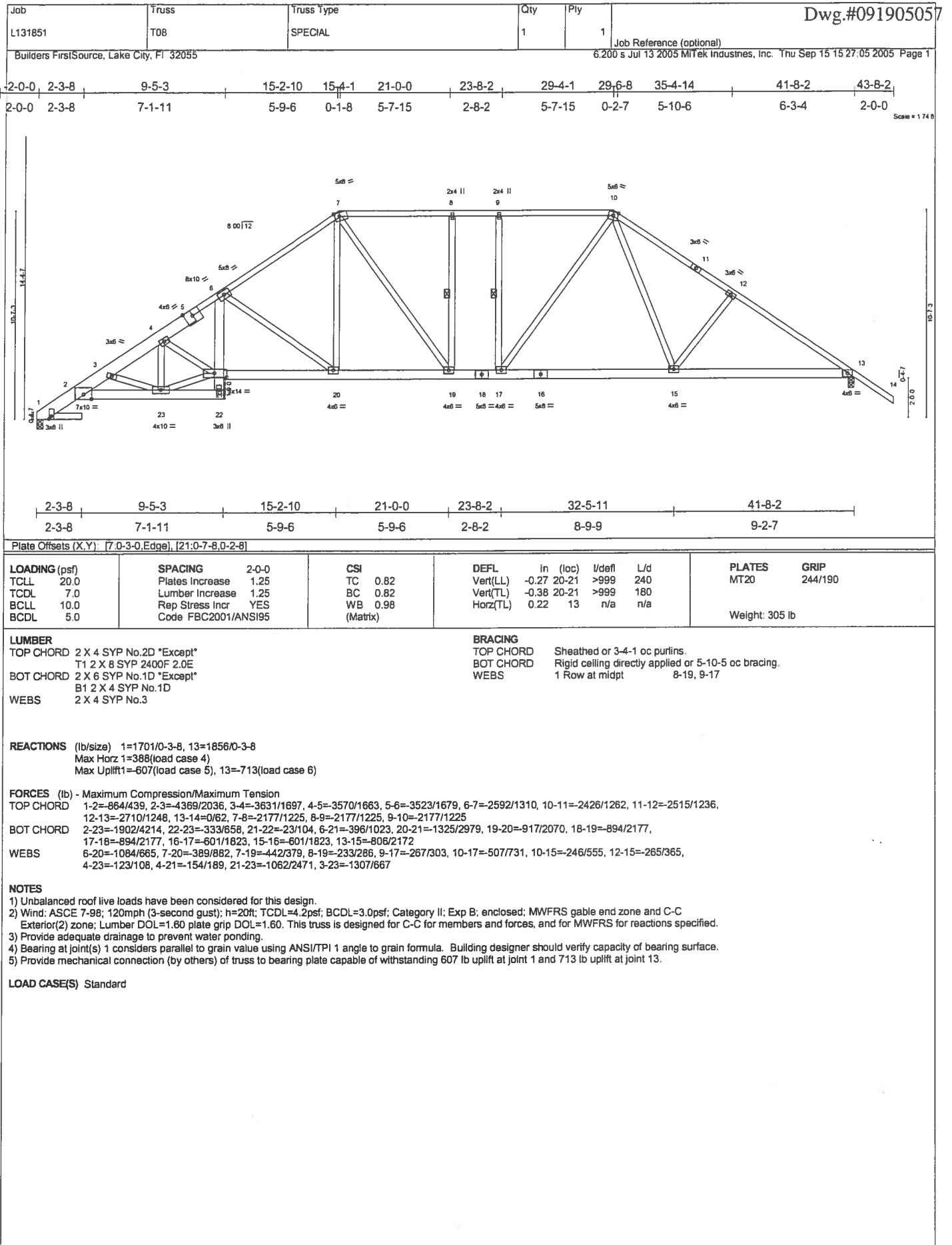
**REACTIONS** (lb/size) 2=1464/0-3-8, 13=1341/0-3-8  
Max Horz 2=605(load case 5)  
Max Uplift2=623(load case 5), 13=577(load case 4)

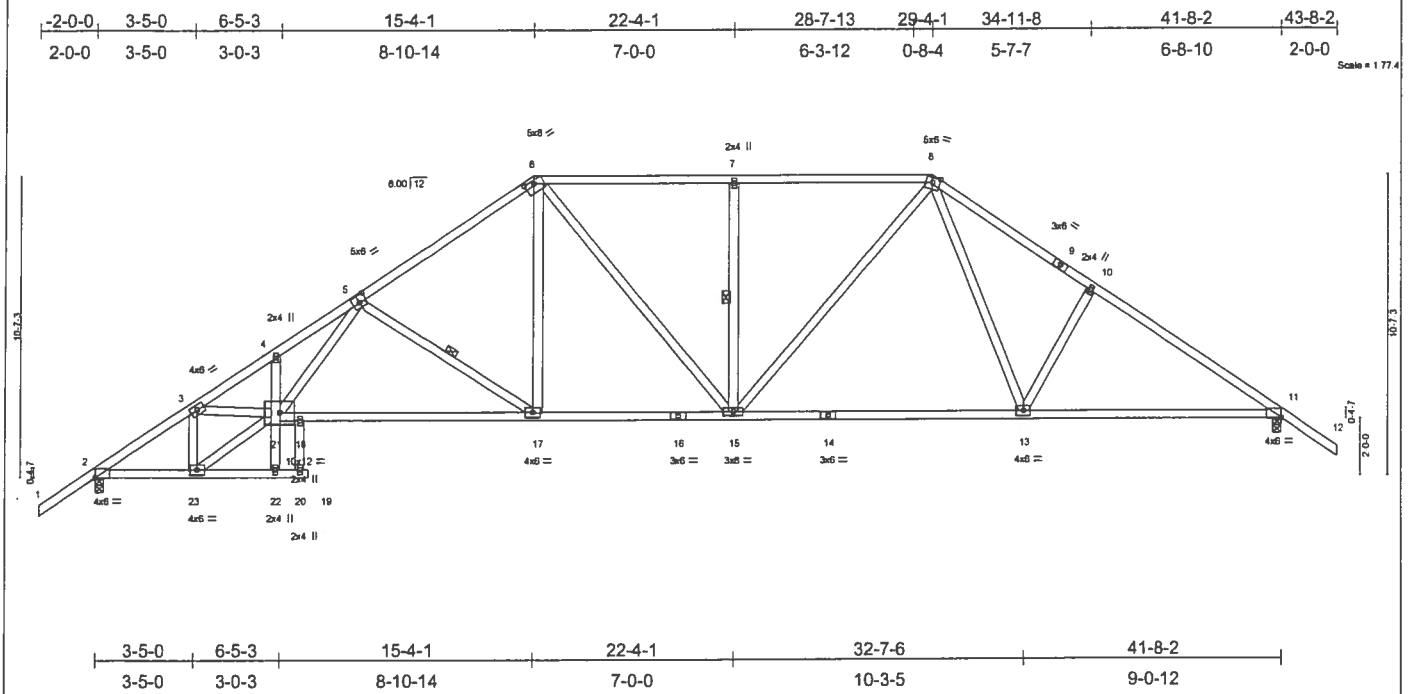
**FORCES** (lb) - Maximum Compression/Maximum Tension  
**TOP CHORD** 1-2=0/59, 2-3=2065/729, 3-4=2960/1387, 4-5=1851/794, 5-6=1972/1008, 6-7=1851/1028, 7-8=1040/615, 11-12=772/447,  
 12-13=1249/711, 8-9=1024/631, 9-10=692/457, 10-11=692/457  
**BOT CHORD** 2-20=953/1619, 19-20=1012/1733, 18-19=1358/2214, 17-18=1470/2345, 16-17=643/1104, 15-16=643/1104, 14-15=541/1024,  
 13-14=19/17  
**WEBS** 3-20=732/536, 3-19=570/905, 4-19=331/725, 4-18=474/595, 4-17=1052/743, 5-17=372/385, 7-17=501/858, 7-15=236/304,  
 9-15=200/409, 9-14=642/330, 10-14=624/1290, 12-14=624/1138

## NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCFL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior (2) zone; Lumber DOL=1.60 diaphragm grip DOL=1.60. This truss is designed for members and forces, and for MWFRS for reactions specified.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 623 lb uplift at joint 2 and 577 lb uplift at joint 13.

LOAD CASE(S) Standard





|                                                                                          |                 |                |          |          |          |        |      |        |         |
|------------------------------------------------------------------------------------------|-----------------|----------------|----------|----------|----------|--------|------|--------|---------|
| Plate Offsets (X,Y): [2:0-0-0,0-0-4], [5:0-3-0,0-3-0], [6:0-4-0,0-1-9], [11:0-0-0,0-0-4] |                 |                |          |          |          |        |      |        |         |
| LOADING (psf)                                                                            | SPACING         | 2-0-0          | CSI      | DEFL     | In (loc) | I/defl | L/d  | PLATES | GRIP    |
| TCLL 20.0                                                                                | Plates Increase | 1.25           | TC 0.50  | Vert(LL) | -0.40    | 17-18  | >999 | 240    | MT20    |
| TCDL 7.0                                                                                 | Lumber Increase | 1.25           | BC 0.70  | Vert(TL) | -0.57    | 17-18  | >867 | 180    | 244/190 |
| BCLL 10.0                                                                                | Rep Stress Incr | YES            | WB 0.99  | Horz(TL) | 0.23     | 11     | n/a  | n/a    |         |
| BCDL 5.0                                                                                 | Code            | FBC2001/ANSI95 | (Matrix) |          |          |        |      |        |         |
| Weight: 254 lb                                                                           |                 |                |          |          |          |        |      |        |         |

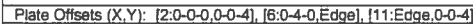
|                                                                                                                              |                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2D<br>BOT CHORD 2 X 4 SYP No.2D *Except*<br>B2 2 X 4 SYP No.3<br>WEBS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Sheathed or 2-9-5 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 5-7-13 oc bracing.<br>WEBS 1 Row at midpt 5-17, 7-15 |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 2=1861/0-3-8, 11=1856/0-3-8  
 Max Horz 2=424(load case 4)  
 Max Uplift 2=760(load case 5), 11=712(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/59, 2-3=2758/1177, 3-4=4871/2052, 4-5=4872/2116, 5-6=2539/1261, 8-9=2356/1274, 9-10=2509/1250, 10-11=2683/1215,  
 11-12=0/59, 6-7=2192/1221, 7-8=2192/1221  
 BOT CHORD 2-23=992/2199, 22-23=61/31, 20-22=0/0, 19-20=0/0, 21-22=0/183, 4-21=79/100, 18-21=1319/2947, 17-18=1319/2947, 16-17=897/2053  
 , 15-16=897/2053, 14-15=599/1800, 13-14=599/1800, 11-13=765/2134  
 WEBS 3-23=1497/688, 21-23=1136/2644, 3-21=739/1814, 5-17=1082/657, 6-15=418/378, 7-15=396/434, 8-15=473/711, 8-13=278/588,  
 10-13=256/363, 18-20=71/0, 6-17=319/627, 5-21=725/1961

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-98; 120mph (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 adequate drainage to prevent water ponding.  
 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 760 lb uplift at joint 2 and 712 lb uplift at joint 11.

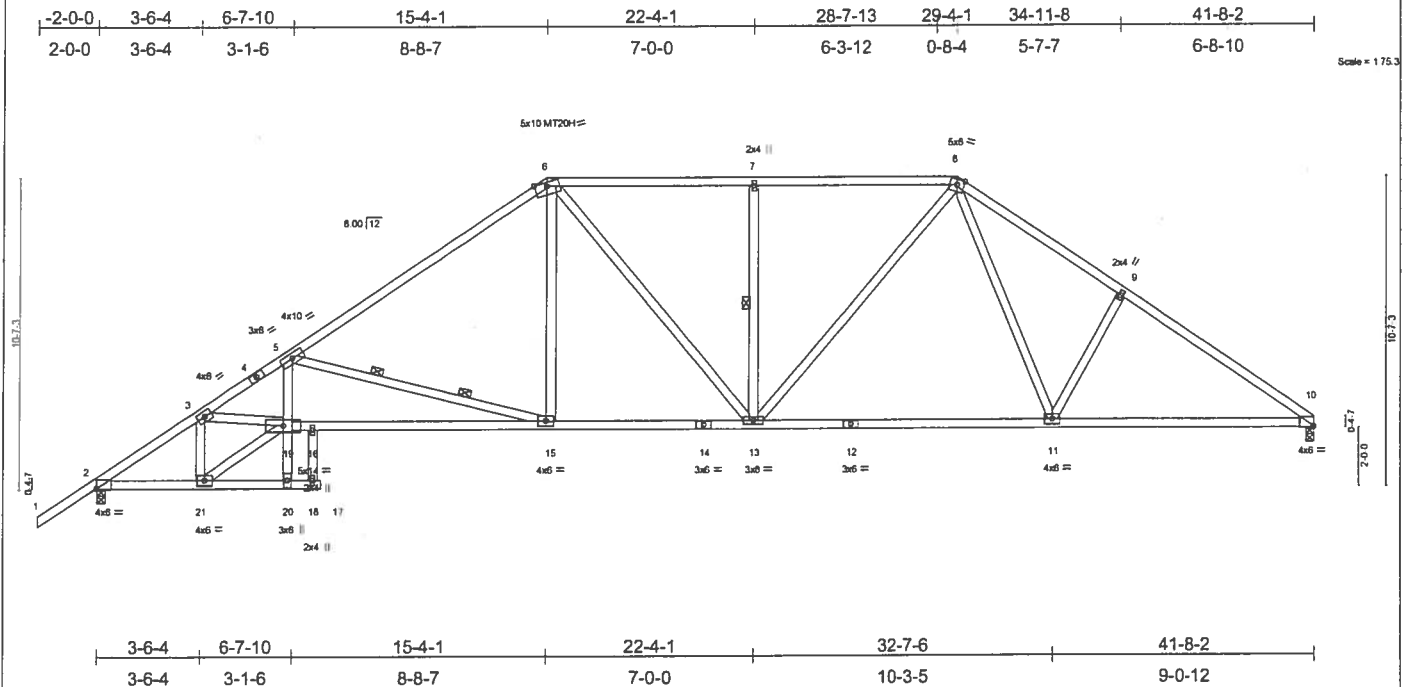
**LOAD CASE(S)** Standard



|               |                          |                |                                                     |
|---------------|--------------------------|----------------|-----------------------------------------------------|
| <b>LUMBER</b> |                          | <b>BRACING</b> |                                                     |
| TOP CHORD     | 2 X 4 SYP No.2D          | TOP CHORD      | Sheathed or 4-2-14 oc purlins.                      |
| BOT CHORD     | 2 X 4 SYP No.2D *Except* | BOT CHORD      | Rigid ceiling directly applied or 4-4-1 oc bracing. |
|               | B2 2 X 4 SYP No.3        | WEBS           | 1 Row at midpt                      7-15, 6-17      |
| WEBS          | 2 X 4 SYP No.3           |                |                                                     |

**FORCES (lb) - Maximum Compression/Maximum Tension**  
**TOP CHORD** 1-2=0/59, 2-3=299/392, 3-4=275/429, 4-5=1438/769, 5-6=1315/803, 8-9=1820/1066, 9-10=1974/1042, 10-11=2146/1007, 11-12=0/59,  
6-7=1487/946, 7-8=1487/946  
**BOT CHORD** 2-20=95/110, 19-20=95/110, 18-19=1589/696, 4-18=1455/720, 17-18=110/69, 16-17=493/1091, 15-16=493/1091, 14-15=410/1353,  
13-14=410/1353, 11-13=594/1693  
**WEBS** 4-17=439/1113, 6-15=423/693, 7-15=397/441, 8-15=302/331, 8-13=279/593, 10-13=263/363, 3-20=0/135, 3-19=232/89,  
6-17=156/188

LOAD CASE(S) Standard



|                                                       |                      |          |                |          |        |     |                |
|-------------------------------------------------------|----------------------|----------|----------------|----------|--------|-----|----------------|
| Plate Offsets (X,Y): [2 0-0-0,0-0-4], [10 Edge,0-0-4] |                      |          |                |          |        |     |                |
| LOADING (psf)                                         | SPACING              | CSI      | DEFL           | in (loc) | l/defl | L/d | PLATES         |
| TCLL 20.0                                             | Plates Increase 1.25 | TC 0.70  | Vert(LL) -0.38 | 15-16    | >999   | 240 | MT20           |
| TCDL 7.0                                              | Lumber Increase 1.25 | BC 0.94  | Vert(TL) -0.54 | 15-16    | >917   | 180 | MT20H          |
| BCLL 10.0                                             | Rep Stress Incr YES  | WB 0.98  | Horz(TL) 0.26  | 10       | n/a    | n/a |                |
| BCDL 5.0                                              | Code FBC2001/ANSI95  | (Matrix) |                |          |        |     | Weight: 247 lb |

|                                                                                                |                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2D<br>BOT CHORD 2 X 4 SYP No.2D<br>WEBS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Sheathed or 2-10-9 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 4-9-13 oc bracing.<br>WEBS 1 Row at midpt 7-13<br>2 Rows at 1/3 pts 5-15 |
|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 10=1737/0-3-8, 2=1864/0-3-8  
 Max Horz 2=451(load case 4)  
 Max Uplift 10=564(load case 6), 2=760(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/59, 2-3=-2765/1174, 3-4=-4783/2117, 4-5=-4712/2122, 5-6=-2604/1271, 6-7=-2534/1329, 7-8=-2687/1268, 8-9=-2197/1242, 9-10=-2687/1268, 10-11=-921/2160  
 BOT CHORD 2-21=1011/2198, 20-21=-178/234, 18-20=0/0, 17-18=0/0, 19-20=-180/245, 5-19=-499/1463, 16-19=-1867/4121, 15-16=-1857/4112, 14-15=-940/2070, 13-14=-940/2070, 12-13=-658/1812, 11-12=-658/1812, 10-11=-921/2160  
 WEBS 3-21=-1346/630, 19-21=-1050/2420, 3-19=-757/1776, 5-15=-2126/1150, 7-13=-391/446, 8-13=-468/703, 8-11=-319/610, 9-11=-269/386, 16-18=-233/269, 6-15=-254/768, 6-13=-429/379

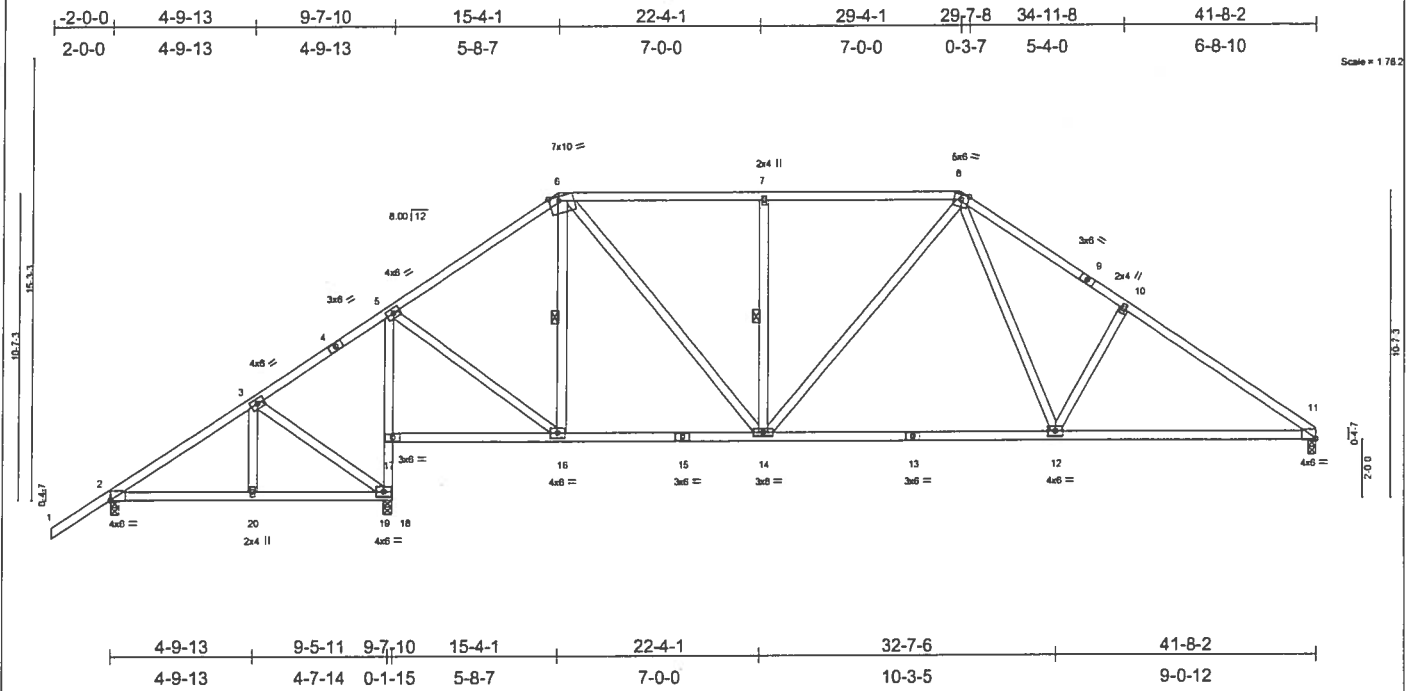
- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) All plates are MT20 plates unless otherwise indicated.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 564 lb uplift at joint 10 and 760 lb uplift at joint 2.

**LOAD CASE(S)** Standard

|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905061           |
| L131851 | T12   | SPECIAL    | 1   | 1   | Job Reference (optional) |

Builders FirstSource, Lake City, Fl 32055

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|                                                                        |                     |       |          |                               |         |
|------------------------------------------------------------------------|---------------------|-------|----------|-------------------------------|---------|
| Plate Offsets (X,Y): [2-0-0-0,0-0-4], [6-0-4-0,Edge], [11-0-0-0,0-0-4] |                     |       |          |                               |         |
| LOADING (psf)                                                          | SPACING             | 2-0-0 | CSI      | DEFL                          | PLATES  |
| TCLL 20.0                                                              | Plates Increase     | 1.25  | TC 0.35  | in (loc) l/defl L/d           | MT20    |
| TCCL 7.0                                                               | Lumber Increase     | 1.25  | BC 0.76  | Vert(LL) -0.21 12-14 >999 240 | GRIP    |
| BCCL 10.0                                                              | Rep Stress Incr     | YES   | WB 0.87  | Vert(TL) -0.31 12-14 >999 180 | 244/190 |
| BCCL 5.0                                                               | Code FBC2001/ANSI95 |       | (Matrix) | Horz(TL) 0.03 11 n/a n/a      |         |
| Weight 243 lb                                                          |                     |       |          |                               |         |

|                                    |                                                               |
|------------------------------------|---------------------------------------------------------------|
| LUMBER                             | BRACING                                                       |
| TOP CHORD 2 X 4 SYP No.2D          | TOP CHORD Sheathed or 4-4-5 oc purlins.                       |
| BOT CHORD 2 X 4 SYP No.2D *Except* | BOT CHORD Rigid ceiling directly applied or 4-6-3 oc bracing. |
| WEBS B2 2 X 4 SYP No.3             | WEBS 1 Row at midpt 6-16, 7-14                                |

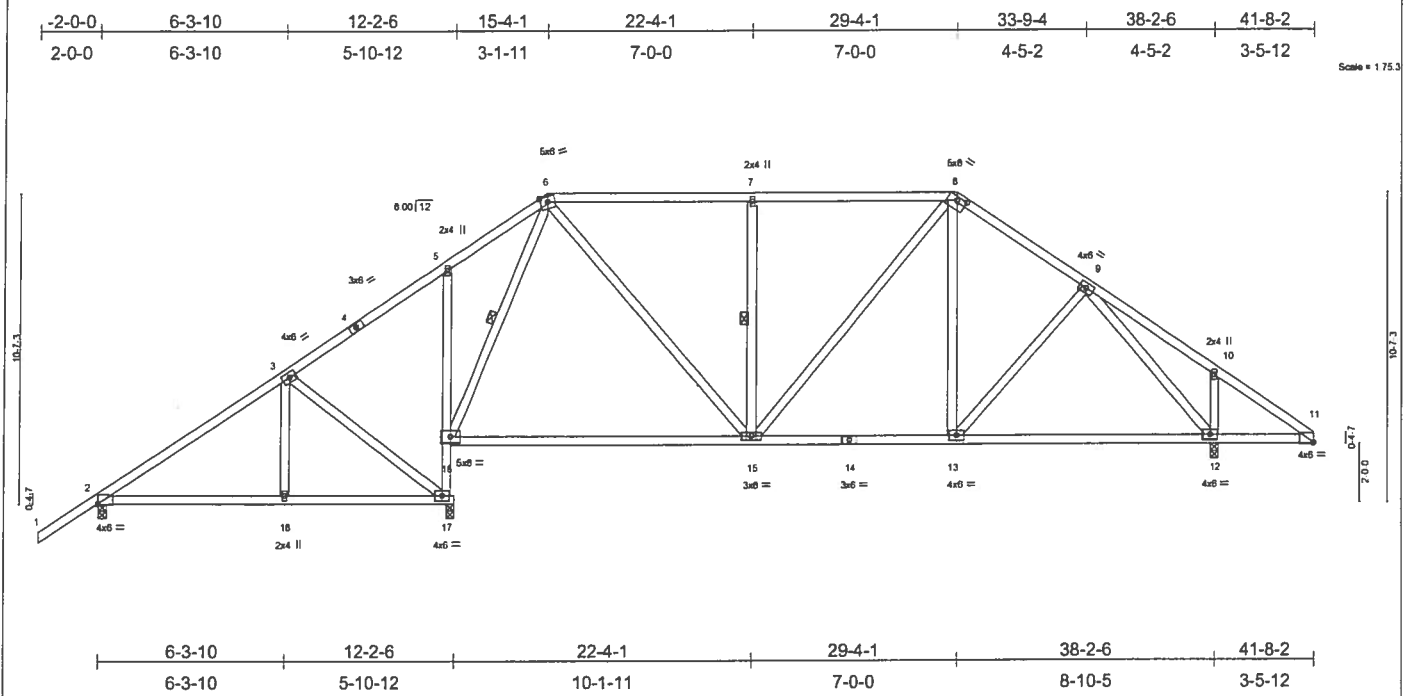
**REACTIONS** (lb/size) 2=493/0-3-8, 18=1763/0-3-8, 11=1337/0-3-8  
 Max Horiz 2=451(load case 4)  
 Max Uplift 2=258(load case 5), 18=787(load case 4), 11=507(load case 6)  
 Max Grav 2=496(load case 7), 18=1763(load case 1), 11=1337(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/59, 2-3=407/331, 3-4=280/350, 4-5=260/369, 5-6=1034/659, 8-9=1679/1031, 9-10=1833/1007, 10-11=1984/969, 6-7=-1284/854,  
 7-8=-1284/854  
 BOT CHORD 2-20=198/275, 19-20=-198/275, 18-19=-29/33, 17-18=-1497/702, 5-17=-1406/718, 16-17=-28/52, 15-16=-369/784, 14-15=-369/784,  
 13-14=-405/1223, 12-13=-405/1223, 11-12=-675/1582  
 WEBS 5-16=-438/993, 6-16=-408/295, 6-14=-429/804, 7-14=-402/432, 8-14=-248/231, 8-12=-324/617, 10-12=-281/390, 3-20=0/164,  
 3-19=-358/231

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-98; 120mph (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 258 lb uplift at joint 2, 787 lb uplift at joint 18 and 507 lb uplift at joint 11.

**LOAD CASE(S)** Standard

|                                           |       |            |                                                                             |     |                          |
|-------------------------------------------|-------|------------|-----------------------------------------------------------------------------|-----|--------------------------|
| Job                                       | Truss | Truss Type | Qty                                                                         | Ply | Dwg.#091905062           |
| L131851                                   | T13   | SPECIAL    | 1                                                                           | 1   | Job Reference (optional) |
| Builders FirstSource, Lake City, FL 32055 |       |            | 6/20/05 Jul 13 2005 Mittek Industries, Inc. Thu Sep 15 15:27:09 2005 Page 1 |     |                          |



|                                                                     |                      |          |                               |                |         |
|---------------------------------------------------------------------|----------------------|----------|-------------------------------|----------------|---------|
| Plate Offsets (X,Y): [2-0-0-0-0-4], [8-0-4-0-0-1-9], [11-0-0-0-0-4] |                      |          |                               |                |         |
| LOADING (psf)                                                       | SPACING              | CSI      | DEFL                          | PLATES         | GRIP    |
| TCLL 20.0                                                           | 2-0-0                | TC 0.32  | in (loc) l/defl L/d           | MT20           | 244/190 |
| TCDL 7.0                                                            | Plates Increase 1.25 | BC 0.69  | Vert(LL) -0.20 15-16 >999 240 | Weight: 255 lb |         |
| BCLL 10.0                                                           | Lumber Increase 1.25 | WB 0.97  | Vert(TL) -0.30 15-16 >999 180 |                |         |
| BCDL 5.0                                                            | Rep Stress Incr YES  | (Matrix) | Horz(TL) 0.02 12 n/a n/a      |                |         |
|                                                                     | Code FBC2001/ANSI95  |          |                               |                |         |

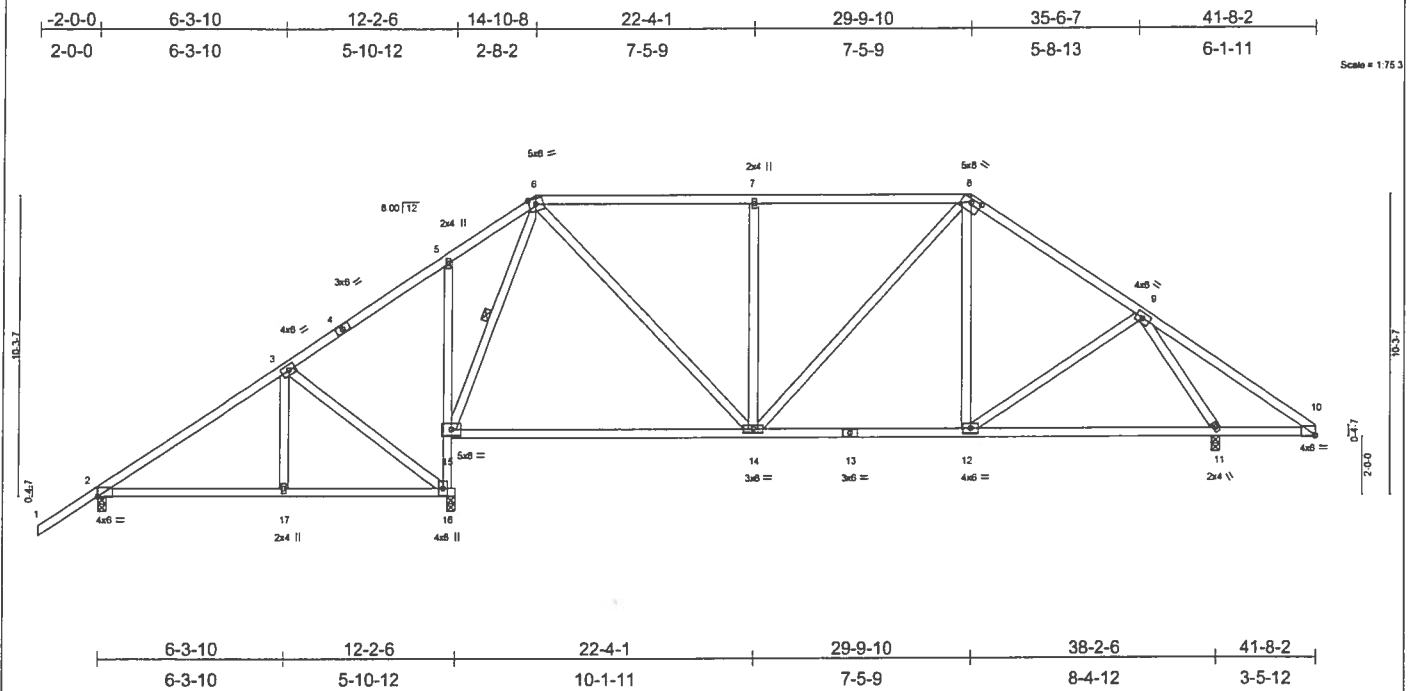
|                                    |                                                                        |
|------------------------------------|------------------------------------------------------------------------|
| <b>LUMBER</b>                      | <b>BRACING</b>                                                         |
| TOP CHORD 2 X 4 SYP No.2D          | TOP CHORD Sheathed or 6-0-0 oc purlins.                                |
| BOT CHORD 2 X 4 SYP No.2D "Except" | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: |
| WEBS B2 2 X 4 SYP No.3             | WEBS 6-0-0 oc bracing: 11-12.                                          |
|                                    | 1 Row at midpt 6-16, 7-15                                              |

**REACTIONS** (lb/size) 2=548/0-3-8, 17=1674/0-3-8, 12=1383/0-3-8  
Max Horz 2=451(load case 4)  
Max Uplift 2=331(load case 5), 17=773(load case 4), 12=573(load case 6)  
Max Grav 2=549(load case 7), 17=1674(load case 1), 12=1383(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=444/399, 3-4=-218/371, 4-5=-204/395, 5-6=-114/467, 6-7=-805/680, 7-8=-805/680, 8-9=949/648, 9-10=-2/170,  
10-11=-104/172  
BOT CHORD 2-18=-269/294, 17-18=-269/294, 16-17=-1315/653, 5-16=-219/308, 15-16=-226/303, 14-15=-285/746, 13-14=-285/746, 12-13=-238/643,  
11-12=-91/134  
WEBS 3-18=0/212, 3-17=-486/341, 6-16=-1010/575, 6-15=-347/784, 7-15=-409/433, 8-15=-203/164, 8-13=-71/170, 9-13=-165/214,  
9-12=-1148/553, 10-12=-241/304

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-98; 120mph (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 gnp 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 331 lb uplift at joint 2, 773 lb uplift at joint 17 and 573 lb uplift at joint 12.

**LOAD CASE(S)** Standard



|                                                                         |                      |          |                              |                |         |
|-------------------------------------------------------------------------|----------------------|----------|------------------------------|----------------|---------|
| Plate Offsets (X,Y): [2-0-0, 0-0-4], [8-0-4, 0-0-1-9], [10-Edge, 0-0-4] |                      |          |                              |                |         |
| LOADING (psf)                                                           | SPACING              | CSI      | DEFL                         | PLATES         | GRIP    |
| TCLL 20.0                                                               | 2-0-0                | TC 0.36  | In (loc) l/defl L/d          | MT20           | 244/190 |
| TCDL 7.0                                                                | Plates Increase 1.25 | BC 0.70  | Ver(LL) -0.20 14-15 >999 240 |                |         |
| BCLL 10.0                                                               | Lumber Increase 1.25 | WB 0.81  | Ver(TL) -0.29 14-15 >999 180 |                |         |
| BCDL 5.0                                                                | Rep Stress Incr YES  | (Matrix) | Horz(TL) 0.02 11 n/a n/a     |                |         |
|                                                                         | Code FBC2001/ANSI95  |          |                              | Weight: 247 lb |         |

|                                                                                                                              |                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2D<br>BOT CHORD 2 X 4 SYP No.2D *Except*<br>B2 2 X 4 SYP No.3<br>WEBS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Sheathed or 6-0-0 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.<br>WEBS 1 Row at midpt 6-15 |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 2=548/0-3-8, 16=1679/0-3-8, 11=1378/0-3-8  
 Max Horz 2=509(load case 4)  
 Max Uplift 2=502(load case 5), 16=1000(load case 4), 11=670(load case 6)  
 Max Grav 2=549(load case 7), 16=1679(load case 1), 11=1378(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/60, 2-3=445/550, 3-4=214/347, 4-5=-199/371, 5-6=-128/436, 6-7=-848/665, 7-8=-848/666, 8-9=-1008/599, 9-10=-283/295  
 BOT CHORD 2-17=-580/294, 16-17=-580/294, 15-16=-1319/666, 5-15=-192/283, 14-15=-208/274, 13-14=-280/769, 12-13=-280/769, 11-12=-222/542,  
 10-11=-168/321  
 WEBS 3-17=-277/212, 3-16=-487/603, 6-15=-1032/613, 6-14=-383/842, 7-14=-438/466, 8-14=-229/190, 8-12=-5/174, 9-12=-225/307,  
 9-11=-1305/895

#### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-98; 120mph (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; cantilever right exposed; porch left exposed; 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 502 lb uplift at joint 2, 1000 lb uplift at joint 16 and 670 lb uplift at joint 11.

**LOAD CASE(S)** Standard

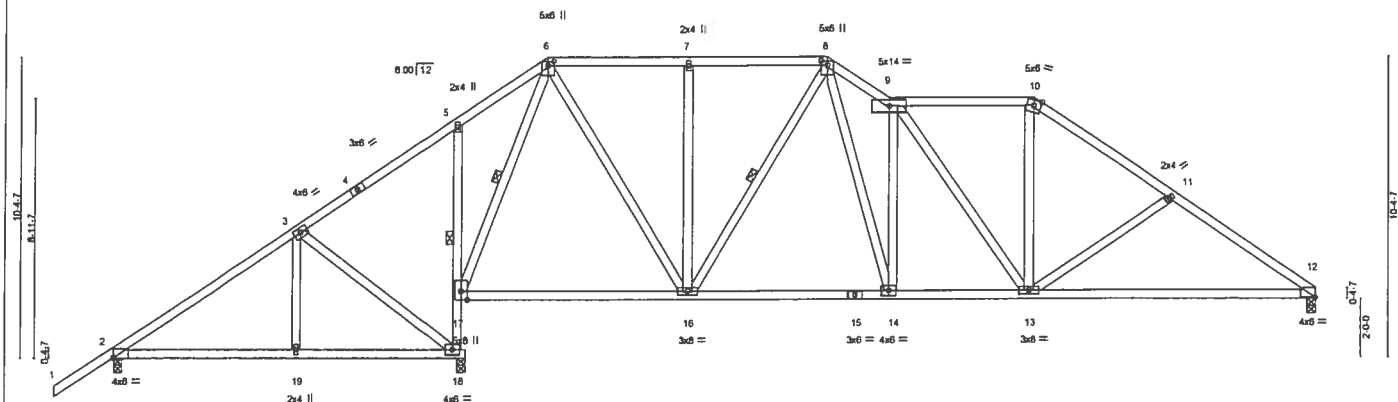
|         |       |            |     |     |                |
|---------|-------|------------|-----|-----|----------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905064 |
| L131851 | T16   | SPECIAL    | 1   | 1   |                |

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|        |        |         |        |         |        |         |         |        |        |
|--------|--------|---------|--------|---------|--------|---------|---------|--------|--------|
| -2-0-0 | 6-3-10 | 12-2-6  | 15-0-0 | 19-10-3 | 24-8-6 | 26-9-14 | 31-9-10 | 36-6-7 | 41-8-2 |
| 2-0-0  | 6-3-10 | 5-10-12 | 2-9-10 | 4-10-3  | 4-10-3 | 2-1-8   | 4-11-12 | 4-8-13 | 5-1-11 |

Scale = 1/8" = 1'-0"



|        |         |         |         |         |        |
|--------|---------|---------|---------|---------|--------|
| 6-3-10 | 12-2-6  | 19-10-3 | 26-9-14 | 31-9-10 | 41-8-2 |
| 6-3-10 | 5-10-12 | 7-7-13  | 6-11-11 | 4-11-12 | 9-10-8 |

Plate Offsets (X,Y): [2-0-0-0,0-0-4], [6-0-1-13,0-2-8], [8-0-1-13,0-2-8], [12-0-0-3,Edge]

| LOADING (psf) | SPACING              | CSI      | DEFL           | In (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase 1.25 | TC 0.32  | Vert(LL) -0.25 | 12-13    | >999   | 240 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.59  | Vert(TL) -0.37 | 12-13    | >956   | 180 |                |         |
| BCLL 10.0     | Rep Stress Incr YES  | WB 0.76  | Horz(TL) 0.02  | 12       | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2001/ANSI95  | (Matrix) |                |          |        |     |                |         |
|               |                      |          |                |          |        |     | Weight: 266 lb |         |

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

**BRACING**  
TOP CHORD Sheathed or 4-5-9 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.  
WEBS 1 Row at midpt 6-17, 6-16, 5-18

**REACTIONS** (lb/size) 12=1237/0-3-8, 2=601/0-3-8, 18=1755/0-3-8  
Max Horz 2=442(load case 4)  
Max Uplift 12=559(load case 6), 2=332(load case 5), 18=784(load case 4)  
Max Grav 12=1237(load case 1), 2=604(load case 7), 18=1755(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=542/392, 3-4=225/361, 4-5=-211/385, 5-6=-96/484, 6-7=914/710, 7-8=914/710, 8-9=-1692/1117, 9-10=-1268/804, 10-11=-1587/872, 11-12=-1815/953  
BOT CHORD 2-19=-265/374, 18-19=-265/374, 16-17=-190/392, 15-16=-389/1108, 14-15=-389/1108, 13-14=-543/1378, 12-13=-689/1466  
WEBS 3-19=0/215, 3-18=-483/341, 6-17=-1149/531, 6-16=-402/1018, 7-16=-273/299, 8-16=-381/207, 8-14=-624/1070, 9-14=-916/631, 9-13=-212/216, 10-13=-233/560, 11-13=-254/308, 17-18=-1401/663, 5-17=-234/325

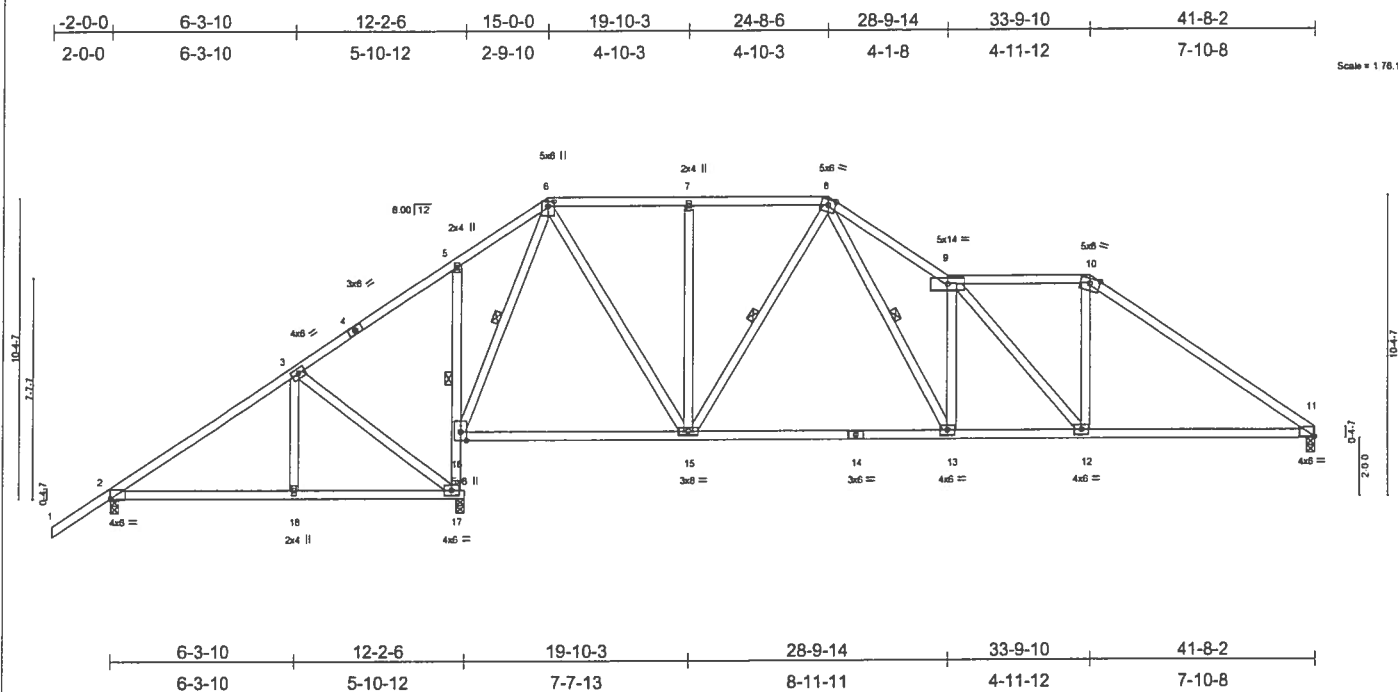
**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone and C-C Exterior(2) zone; Lumber DOL=1.60 plate grip DOL=1.60. This truss is designed for C-C for members and forces, and for MWFRS for reactions specified.  
3) Provide adequate drainage to prevent water ponding.  
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 559 lb uplift at joint 12, 332 lb uplift at joint 2 and 784 lb uplift at joint 18.

**LOAD CASE(S)** Standard

| Job     | Truss | Truss Type | Qty | Ply |                                            |
|---------|-------|------------|-----|-----|--------------------------------------------|
| L131851 | T17   | SPECIAL    | 1   | 1   | Dwg.#091905065<br>Job Reference (optional) |

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|                                                                        |      |                     |      |          |      |          |             |      |                |         |
|------------------------------------------------------------------------|------|---------------------|------|----------|------|----------|-------------|------|----------------|---------|
| Plate Offsets (X,Y): [2:0-0,0,0-4], [6:0-1,13,0-2-8], [11:0-0,7,0-0-2] |      |                     |      |          |      |          |             |      |                |         |
| LOADING (psf)                                                          |      | SPACING 2-0-0       |      | CSI      |      | DEFL     |             |      | PLATES GRIP    |         |
| TCLL                                                                   | 20.0 | Plates Increase     | 1.25 | TC       | 0.51 | in (loc) | l/defl      | L/d  | MT20           | 244/190 |
| TCDL                                                                   | 7.0  | Lumber Increase     | 1.25 | BC       | 0.57 | Vert(LL) | -0.20 13-15 | >999 | 240            |         |
| BCLL                                                                   | 10.0 | Rep Stress Incr     | YES  | WB       | 0.62 | Vert(TL) | -0.29 13-15 | >999 | 180            |         |
| BCDL                                                                   | 5.0  | Code FBC2001/ANSI95 |      | (Matrix) |      | Horz(TL) | 0.02 11     | n/a  | n/a            |         |
|                                                                        |      |                     |      |          |      |          |             |      | Weight: 253 lb |         |

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

|                |                                                            |
|----------------|------------------------------------------------------------|
| <b>BRACING</b> |                                                            |
| TOP CHORD      | Sheathed or 4-4-8 oc purlins.                              |
| BOT CHORD      | Rigid ceiling directly applied or 7-7-14 oc bracing.       |
| WEBS           | 1 Row at midpt                      6-16, 8-15, 8-13, 5-17 |

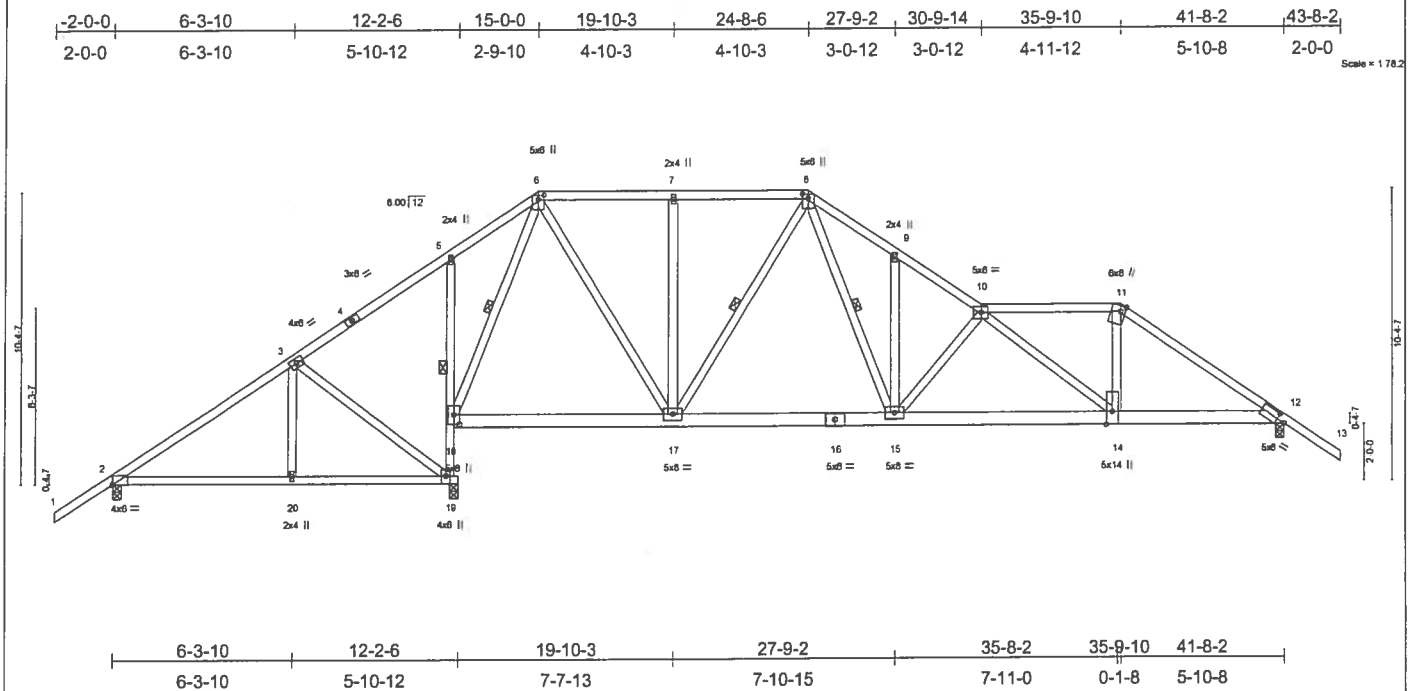
**REACTIONS** (lb/size) 11=1236/0-3-8, 2=599/0-3-8, 17=1758/0-3-8  
 Max Horiz 2=442(load case 4)  
 Max Uplift11=559(load case 6), 2=331(load case 5), 17=762(load case 4)  
 Max Grav 11=1236(load case 1), 2=603(load case 7), 17=1758(load case 1)

**FORCES (lb)** - Maximum Compression/Maximum Tension  
**TOP CHORD** 1-2=0/59, 2-3=539/391, 3-4=227/360, 4-5=-212/383, 5-6=97/1482, 6-7=915/706, 7-8=915/706, 8-9=2111/1300, 9-10=-1421/872,  
10-11=-1809/898  
**BOT CHORD** 2-18=264/371, 17-18=-264/371, 15-16=-179/391, 14-15=-391/1101, 13-14=-391/1101, 12-13=-719/1701, 11-12=-592/1407  
**WEBS** 3-18=0/215, 3-17=-482/341, 6-16=-1159/505, 6-15=-398/1023, 7-15=-276/312, 8-15=-365/252, 8-13=-742/1341, 9-13=-1004/715,  
9-12=-416/228, 10-12=-147/538, 16-17=-1405/641, 5-16=-234/325

**NOTES**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind ASCE 7-98; 120mph (3-second gust); h=20ft; TCDF=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 gird 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 559 lb uplift at joint 11, 331 lb uplift at joint 2 and 762 lb uplift at joint 17.

LOAD CASE(S) Standard



|                                                                                                                               |                      |          |                |          |        |     |                |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------|----------|----------------|----------|--------|-----|----------------|
| Plate Offsets (X,Y): [2:0-0-0,0-0-4], [6:0-1-13,0-2-8], [8:0-1-13,0-2-8], [11:0-2-7,Edge], [12:0-3-8,0-2-8], [18:0-4-0,0-2-4] |                      |          |                |          |        |     |                |
| LOADING (psf)                                                                                                                 | SPACING              | CSI      | DEFL           | In (loc) | I/defl | L/d | PLATES GRIP    |
| TCLL 20.0                                                                                                                     | Plates Increase 1.25 | TC 0.47  | Vert(LL) -0.19 | 14-15    | >999   | 240 | MT20 244/190   |
| BCDL 7.0                                                                                                                      | Lumber Increase 1.25 | BC 0.48  | Vert(TL) -0.26 | 14-15    | >999   | 180 |                |
| BCLL 10.0                                                                                                                     | Rep Stress Incr NO   | WB 0.94  | Horz(TL) 0.03  | 12       | n/a    | n/a |                |
| BCDL 5.0                                                                                                                      | Code FBC2001/ANSI95  | (Matrix) |                |          |        |     | Weight: 284 lb |

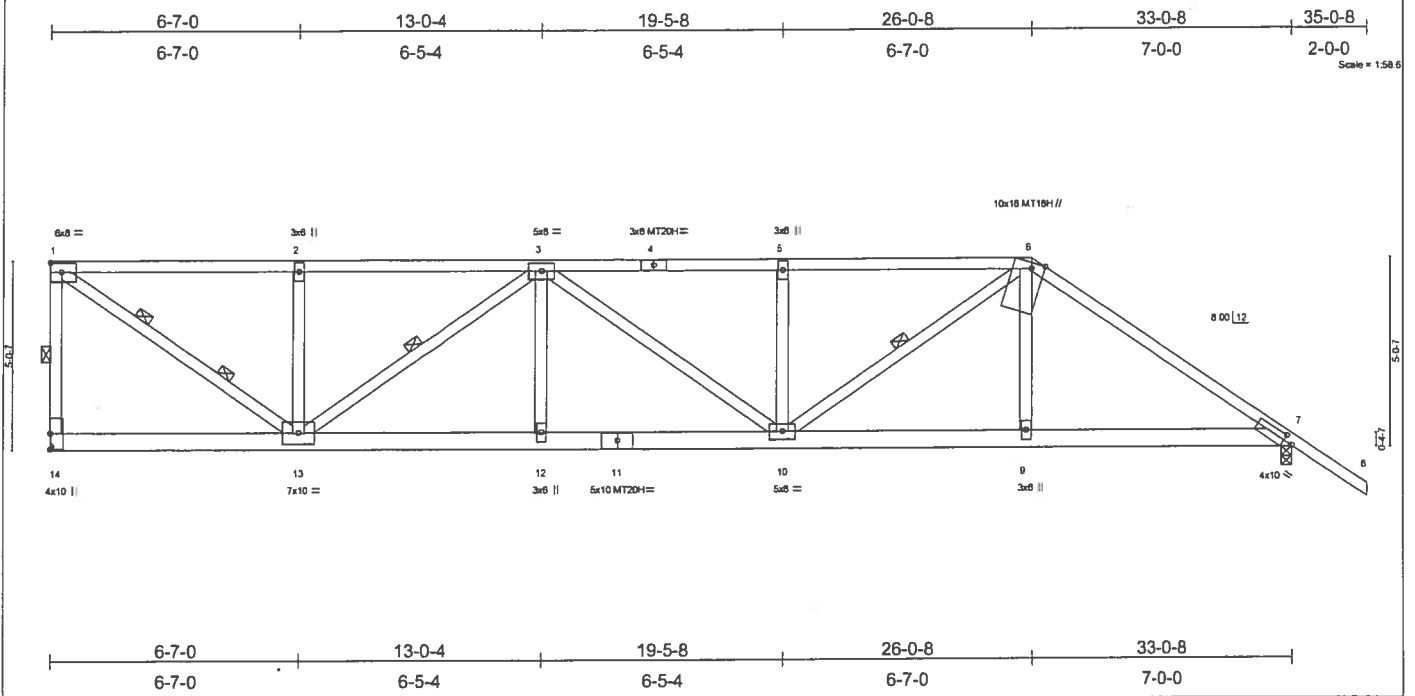
|                                                                                                                               |                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2D<br>BOT CHORD 2 X 6 SYP No.1D *Except*<br>B1 2 X 4 SYP No.2D<br>WEBS 2 X 4 SYP No.3 | <b>BRACING</b><br>TOP CHORD Sheathed or 3-1-10 oc purlins.<br>BOT CHORD Rigid ceiling directly applied or 6-8-14 oc bracing.<br>WEBS 1 Row at midpt 6-18, 8-17, 8-15, 5-19 |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 2=592/0-3-8, 19=2057/0-3-8, 12=2542/0-3-8  
 Max Horz 2=412(load case 3)  
 Max Uplift 2=354(load case 5), 19=893(load case 3), 12=1305(load case 5)  
 Max Grav 2=596(load case 6), 19=2057(load case 1), 12=2542(load case 1)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/59, 2-3=527/502, 3-4=-199/472, 4-5=-185/495, 5-6=-71/593, 6-7=-1201/767, 7-8=-1201/767, 8-9=-2800/1528, 9-10=-2829/1396,  
 10-11=-3291/1661, 11-12=-3980/1898, 12-13=0/62  
 BOT CHORD 2-20=-257/361, 19-20=-257/361, 17-18=-224/496, 16-17=-591/1577, 15-16=-591/1577, 14-15=-1556/3534, 12-14=-1447/3220  
 WEBS 3-20=0/215, 3-19=-481/340, 6-18=-1472/648, 6-17=-576/1363, 7-17=-273/295, 8-17=-728/343, 8-15=-1070/2052, 9-15=-129/211,  
 10-15=-1978/1061, 10-14=-312/165, 11-14=-899/1884, 18-19=-1705/773, 5-18=-238/327

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
  - Provide adequate drainage to prevent water ponding.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 354 lb uplift at joint 2, 893 lb uplift at joint 19 and 1305 lb uplift at joint 12.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1483 lb down and 886 lb up at 35-8-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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: 1-6=-54, 6-8=-54, 8-10=-54, 10-11=-54, 11-13=-54, 2-19=-30, 12-18=-30  
 Concentrated Loads (lb)  
     Vert: 14=-1483(F)



|                      |                      |            |                               |                |             |
|----------------------|----------------------|------------|-------------------------------|----------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL</b>                   | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL 20.0            | 2-0-0                | TC 0.98    | in (loc) l/def L/d            | MT20           | 244/190     |
| TCDL 7.0             | Plates Increase 1.25 | BC 0.63    | Vert(LL) 0.39 10-12 >999 240  | MT20H          | 187/143     |
| BCLL 10.0            | Lumber Increase 1.25 | WB 0.77    | Vert(TL) -0.43 10-12 >906 180 | MT18H          | 244/190     |
| BCDL 5.0             | Rep Stress Incr NO   | (Matrix)   | Horz(TL) 0.10 7 n/a n/a       | Weight: 209 lb |             |
|                      | Code FBC2001/ANSI95  |            |                               |                |             |

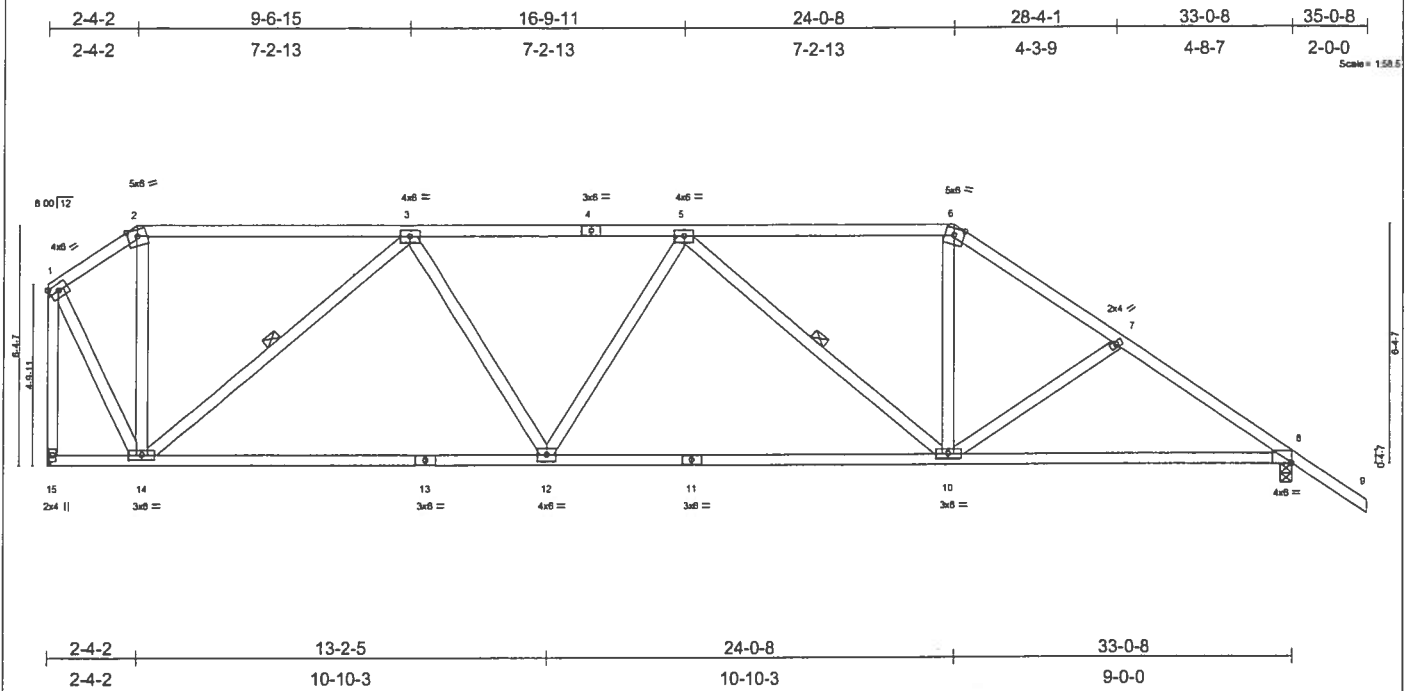
|                                                                            |                                                               |
|----------------------------------------------------------------------------|---------------------------------------------------------------|
| <b>LUMBER</b>                                                              | <b>BRACING</b>                                                |
| TOP CHORD 2 X 4 SYP No.1D "Except"                                         | TOP CHORD Sheathed or 2-3-5 oc purlins, except end verticals. |
| T3 2 X 4 SYP No.2D                                                         | BOT CHORD Rigid ceiling directly applied or 4-2-1 oc bracing. |
| BOT CHORD 2 X 6 SYP No.1D                                                  | WEBS 1 Row at midpt 1-14, 3-13, 6-10                          |
| WEBS 2 X 4 SYP No.2D "Except"                                              | 2 Rows at 1/3 pts 1-13                                        |
| W3 2 X 4 SYP No.3, W3 2 X 4 SYP No.3, W3 2 X 4 SYP No.3, W3 2 X 4 SYP No.3 |                                                               |

**REACTIONS (lb/size)** 14=3034/Mechanical, 7=2927/0-3-8  
 Max Horz 14=-362(load case 5)  
 Max Uplift 14=-2331(load case 3), 7=-1905(load case 5)

**FORCES (lb)** - Maximum Compression/Maximum Tension  
 TOP CHORD 1-14=-2812/2321, 1-2=-3495/2669, 2-3=-3495/2669, 3-4=-5371/4045, 4-5=-5371/4045, 5-6=-5372/4043, 6-7=-4665/3251, 7-8=0/62  
 BOT CHORD 13-14=-99/276, 12-13=-3977/5246, 11-12=-3977/5246, 10-11=-3977/5246, 9-10=-2678/3815, 7-9=-2666/3788  
 WEBS 1-13=-3162/4181, 2-13=-781/1054, 3-13=-2162/1627, 3-12=0/431, 3-10=-165/155, 5-10=-773/1088, 6-10=-1661/1905, 6-9=-440/873

- NOTES**
- 1) Wind: ASCE 7-98; 120mph (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) Provide adequate drainage to prevent water ponding.
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2331 lb uplift at joint 14 and 1905 lb uplift at joint 7.
  - 6) Girder carries hip end with 7-0-0 right side setback, 0-0-0 left side setback, and 7-0-0 end setback.
  - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 506 lb up at 26-0-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 8) 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: 1-6=-118(F=-64), 6-8=-54, 9-14=-65(F=-35), 7-9=-30  
 Concentrated Loads (lb)  
 Vert: 9=-539(F)



|                                    |                      |          |                |            |                |
|------------------------------------|----------------------|----------|----------------|------------|----------------|
| Plate Offsets (X,Y): (8-0-0-0-0-4) |                      |          |                |            |                |
| LOADING (psf)                      | SPACING 2-0-0        | CSI      | DEFL           | In (loc)   | PLATES GRIP    |
| TCLL 20.0                          | Plates Increase 1.25 | TC 0.59  | Vert(LL) -0.25 | 10-12 >999 | MT20 244/190   |
| TCDL 7.0                           | Lumber Increase 1.25 | BC 0.67  | Vert(TL) -0.36 | 10-12 >999 |                |
| BCLL 10.0                          | Rep Stress Incr YES  | WB 0.82  | Horz(TL) 0.07  | 8 n/a      |                |
| BCDL 5.0                           | Code FBC2001/ANSI95  | (Matrix) |                |            | Weight: 192 lb |

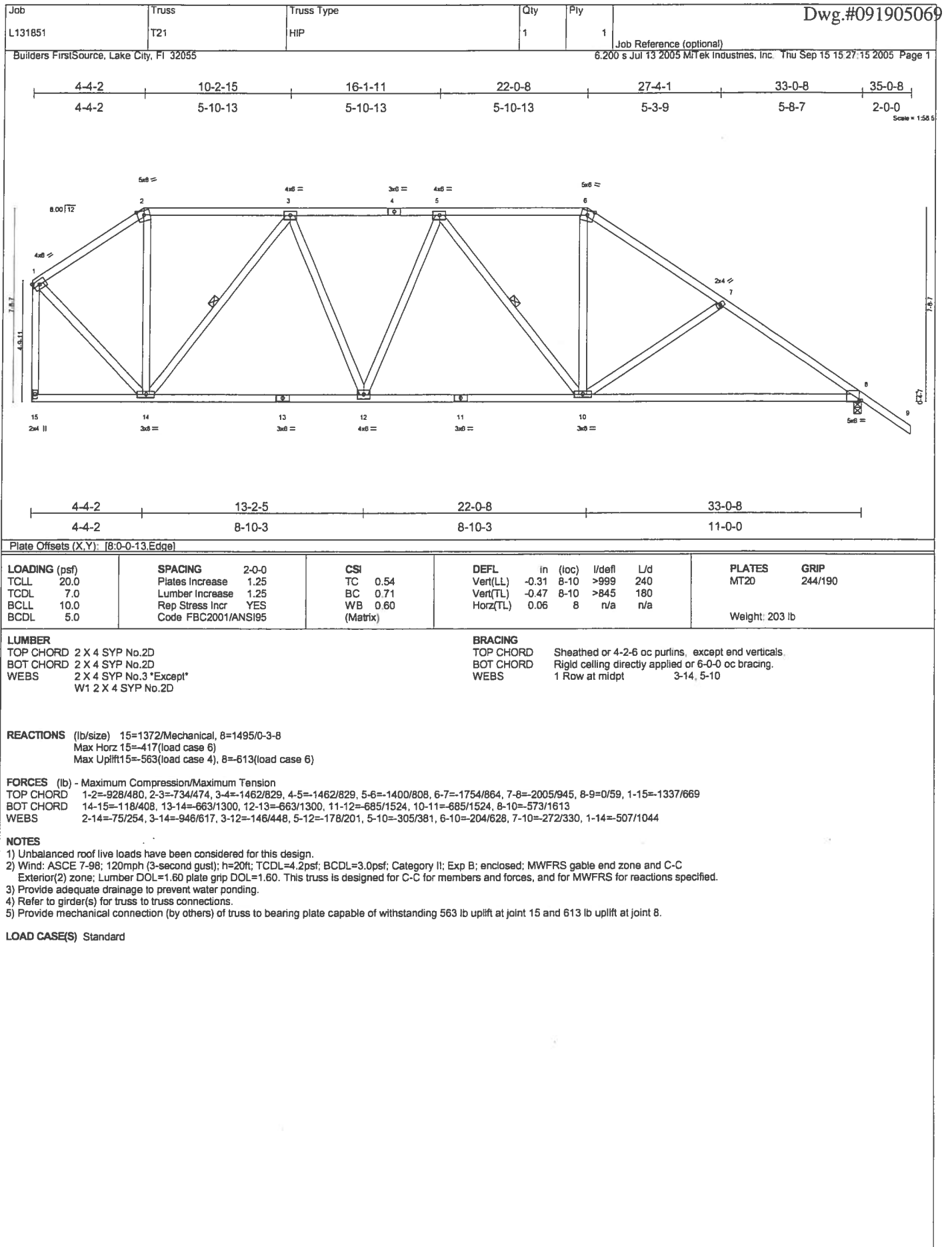
|                                                                                                                               |                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2D<br>BOT CHORD 2 X 4 SYP No.2D<br>WEBS 2 X 4 SYP No.3 *Except*<br>W1 2 X 4 SYP No.2D | <b>BRACING</b><br>TOP CHORD Sheathed or 4-5-3 oc purlins, except end verticals.<br>BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.<br>WEBS 1 Row at midpt 3-14, 5-10 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

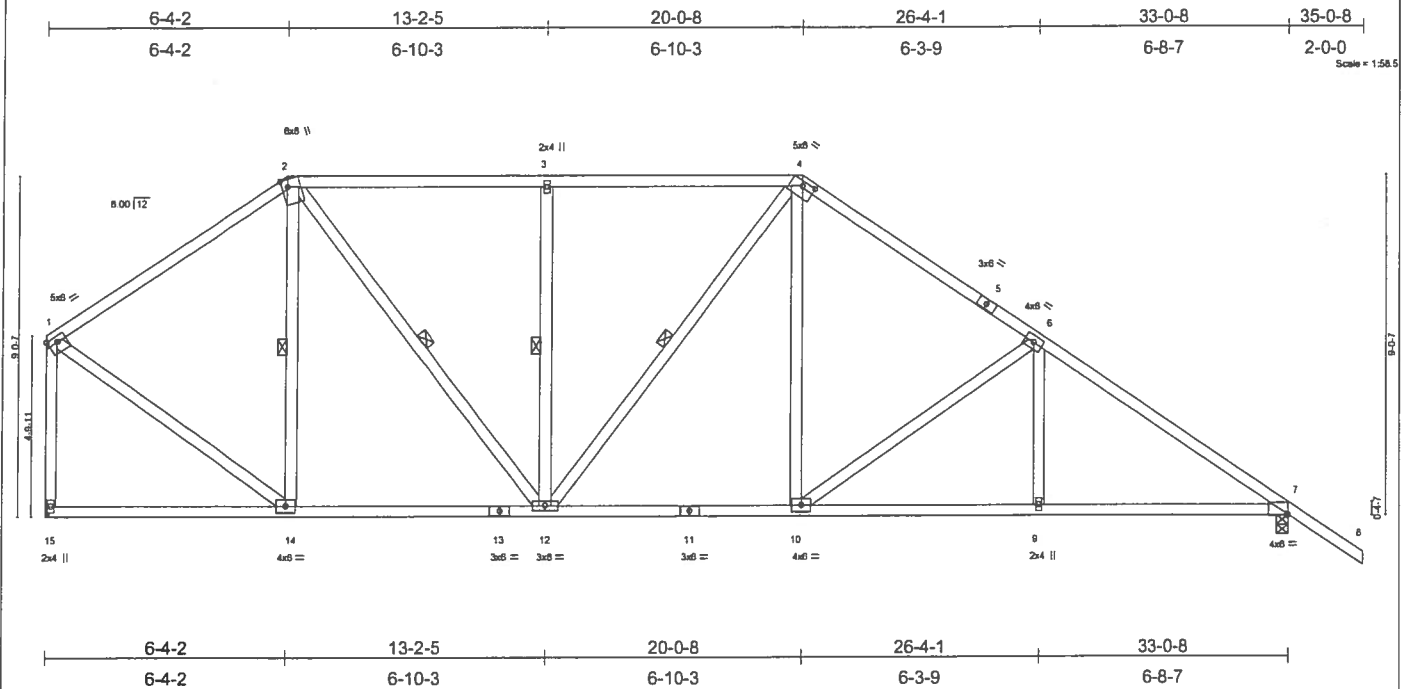
**REACTIONS** (lb/size) 15=1372/Mechanical, 8=1495/0-3-8  
 Max Horz 15=-385(load case 6)  
 Max Uplift 15=-667(load case 4), 8=-624(load case 3)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-651/314, 2-3=-555/328, 3-4=-1798/980, 4-5=-1798/980, 5-6=-1532/835, 6-7=-1877/922, 7-8=-2058/952, 8-9=0/59, 1-15=-1440/658  
 BOT CHORD 14-15=-55/382, 13-14=-844/1535, 12-13=-844/1535, 11-12=-933/1864, 10-11=-933/1864, 8-10=-665/1647  
 WEBS 2-14=0/123, 3-14=-1297/831, 3-12=-145/519, 5-12=-132/223, 5-10=-515/486, 6-10=-228/681, 7-10=-159/244, 1-14=-631/1233

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-98; 120mph (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 adequate drainage to prevent water ponding.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 667 lb uplift at joint 15 and 624 lb uplift at joint 8.

**LOAD CASE(S)** Standard





|                                                                                        |                     |       |          |                |             |        |     |
|----------------------------------------------------------------------------------------|---------------------|-------|----------|----------------|-------------|--------|-----|
| Plate Offsets (X,Y): [1:Edge,0-1-12], [2:0-2-7,Edge], [4:0-4-0,0-1-9], [7:0-0-0,0-0-4] |                     |       |          |                |             |        |     |
| LOADING (psf)                                                                          | SPACING             | 2-0-0 | CSI      | DEFL           | in (loc)    | l/defl | L/d |
| TCLL 20.0                                                                              | Plates Increase     | 1.25  | TC 0.62  | Vert(LL)       | -0.10 10-12 | >999   | 240 |
| TCDL 7.0                                                                               | Lumber Increase     | 1.25  | BC 0.42  | Vert(TL)       | -0.15 10-12 | >999   | 180 |
| BCLL 10.0                                                                              | Rep Stress Incr     | YES   | WB 0.52  | Horz(TL)       | 0.05 7      | n/a    | n/a |
| BCDL 5.0                                                                               | Code FBC2001/ANSI95 |       | (Matrix) |                |             |        |     |
|                                                                                        |                     |       |          | PLATES MT20    |             |        |     |
|                                                                                        |                     |       |          | GRIP 244/190   |             |        |     |
|                                                                                        |                     |       |          | Weight: 213 lb |             |        |     |

|                                                                                                                               |                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LUMBER</b><br>TOP CHORD 2 X 4 SYP No.2D<br>BOT CHORD 2 X 4 SYP No.2D<br>WEBS 2 X 4 SYP No.3 *Except*<br>W1 2 X 4 SYP No.2D | <b>BRACING</b><br>TOP CHORD Sheathed or 4-3-7 oc purlins, except end verticals.<br>BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.<br>WEBS 1 Row at midpt 2-14, 2-12, 3-12, 4-12 |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**REACTIONS** (lb/size) 15=1372/Mechanical, 7=1495/0-3-8  
 Max Horz 15=-449(load case 6)  
 Max Uplift 15=-453(load case 4), 7=-636(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1087/570, 2-3=-1266/787, 3-4=-1266/787, 4-5=-1427/833, 5-6=-1597/806, 6-7=-2087/899, 7-8=0/59, 1-15=-1280/669  
 BOT CHORD 14-15=-184/430, 13-14=-420/827, 12-13=-420/827, 11-12=-364/1257, 10-11=-364/1257, 9-10=-507/1641, 7-9=-507/1641  
 WEBS 2-14=-371/302, 2-12=-481/758, 3-12=-386/422, 4-12=-284/154, 4-10=-180/471, 6-10=-481/381, 6-9=0/212, 1-14=-453/972

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-98; 120mph (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.
  - Provide adequate drainage to prevent water ponding.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 453 lb uplift at joint 15 and 636 lb uplift at joint 7.

**LOAD CASE(S)** Standard

|         |       |            |     |     |                |
|---------|-------|------------|-----|-----|----------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905071 |
| L131851 | T23   | SPECIAL    | 3   | 1   |                |

Builders FirstSource, Lake City, FL 32055

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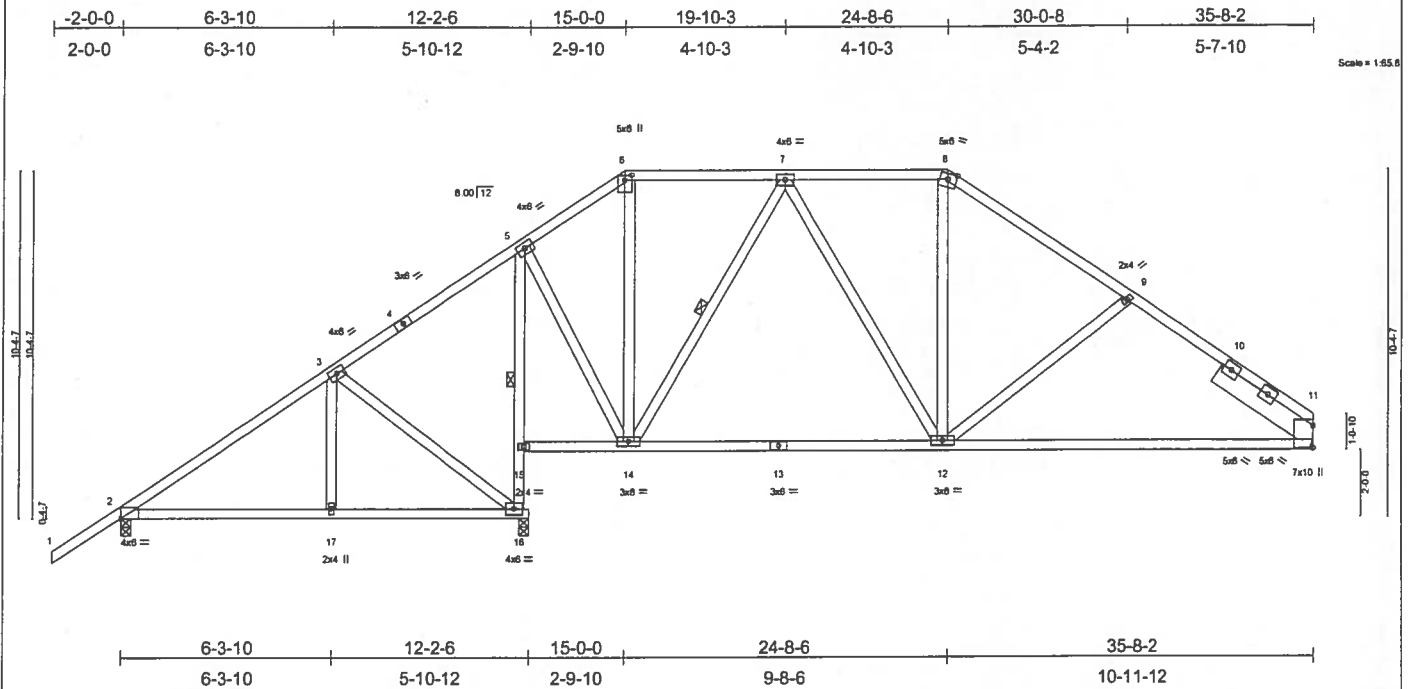


Plate Offsets (X,Y): [2:0-0-0,0-0-4], [6:0-1-13,0-2-8], [11:0-7-15,0-0-2]

| LOADING (psf) | SPACING              | CSI      | DEFL     | in (loc)    | l/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|----------|----------|-------------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase 1.25 | TC 0.29  | Vert(LL) | -0.19 11-12 | >999   | 240 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.53  | Vert(TL) | -0.29 11-12 | >993   | 180 |                |         |
| BCLL 10.0     | Rep Stress Incr YES  | WB 0.42  | Horz(TL) | 0.02 11     | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2001/ANSI95  | (Matrix) |          |             |        |     | Weight: 226 lb |         |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2D  
 BOT CHORD 2 X 4 SYP No.2D  
 WEBS 2 X 4 SYP No.3  
 SLIDER Right 2 X 8 SYP No.1D 3-6-7

**BRACING**  
 TOP CHORD Sheathed or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:  
 6-0-0 oc bracing: 14-15.  
 WEBS 1 Row at midpt 7-14, 5-16

**REACTIONS** (lb/size) 11=993/Mechanical, 2=610/0-3-8, 16=1498/0-3-8  
 Max Horiz 2=442(load case 4)  
 Max Uplift 11=433(load case 6), 2=334(load case 5), 16=649(load case 4)  
 Max Grav 11=993(load case 1), 2=610(load case 7), 16=1498(load case 1)

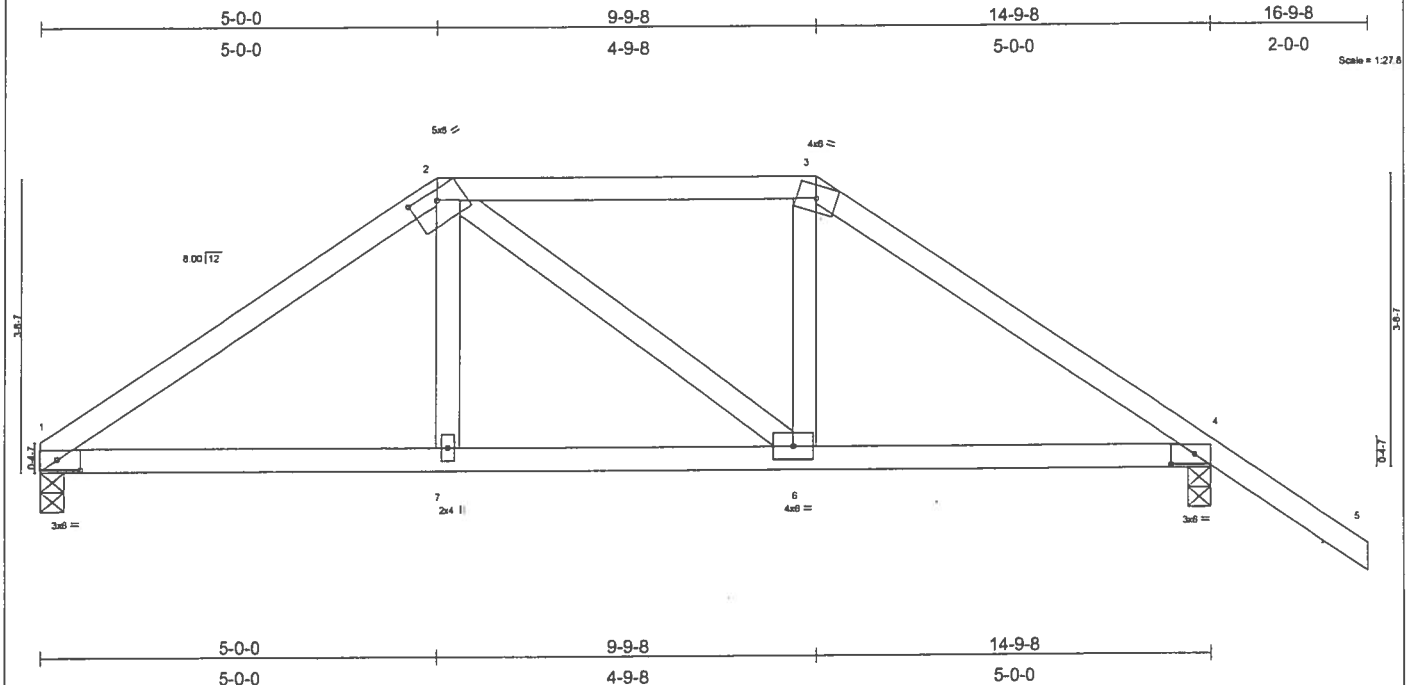
**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=0/60, 2-3=553/399, 3-4=222/368, 4-5=207/391, 5-6=481/500, 6-7=358/457, 7-8=775/607, 8-9=1004/625, 9-10=1087/686,  
 10-11=1245/665  
 BOT CHORD 2-17=268/383, 16-17=268/383, 14-15=6/12, 13-14=242/641, 12-13=242/641, 11-12=407/936  
 WEBS 3-17=0/215, 3-16=485/341, 5-14=285/761, 6-14=158/116, 7-14=571/302, 7-12=68/269, 8-12=89/232, 9-12=211/321, 15-16=1142/528,  
 5-15=1138/528

**NOTES**  
 1) Unbalanced roof live loads have been considered for this design.  
 2) Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable and 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) Refer to girder(s) for truss to truss connections.  
 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 433 lb uplift at joint 11, 334 lb uplift at joint 2 and 649 lb uplift at joint 16.

**LOAD CASE(S)** Standard

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| LOADING (psf) | SPACING              | CSI      | DEFL     | In    | (loc) | V/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.39  | Vert(LL) | 0.04  | 6-7   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.36  | Vert(TL) | -0.06 | 6-7   | >999   | 180 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.16  | Horz(TL) | 0.02  | 4     | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr NO   | (Matrix) |          |       |       |        |     |               |         |
|               | Code FBC2001/ANSI95  |          |          |       |       |        |     | Weight: 68 lb |         |

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

**BRACING**  
 TOP CHORD Sheathed or 5-2-13 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 7-3-4 oc bracing.

**REACTIONS** (lb/size) 1=979/0-3-8, 4=1112/0-3-8  
 Max Horz 1=-179(load case 5)  
 Max Uplift 1=-563(load case 4), 4=-729(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-1476/892, 2-3=-1170/790, 3-4=-1473/880, 4-5=0/59  
 BOT CHORD 1-7=-787/1173, 6-7=-796/1193, 4-6=-673/1151  
 WEBS 2-7=-212/458, 2-6=-113/139, 3-6=-244/485

- NOTES**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-98; 120mph (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.
  - Provide adequate drainage to prevent water ponding.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 563 lb uplift at joint 1 and 729 lb uplift at joint 4.
  - Girder carries hip end with 5-0-0 end setback.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 245 lb down and 230 lb up at 9-9-8, and 245 lb down and 230 lb up at 5-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - 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, 2-3=-91(F=-37), 3-5=-54, 1-7=-30, 6-7=-50(F=-20), 4-6=-30  
 Concentrated Loads (lb)  
 Vert: 7=-245(F) 6=-245(F)

|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905073           |
| L131851 | T27   | HIP        | 1   | 1   | Job Reference (optional) |

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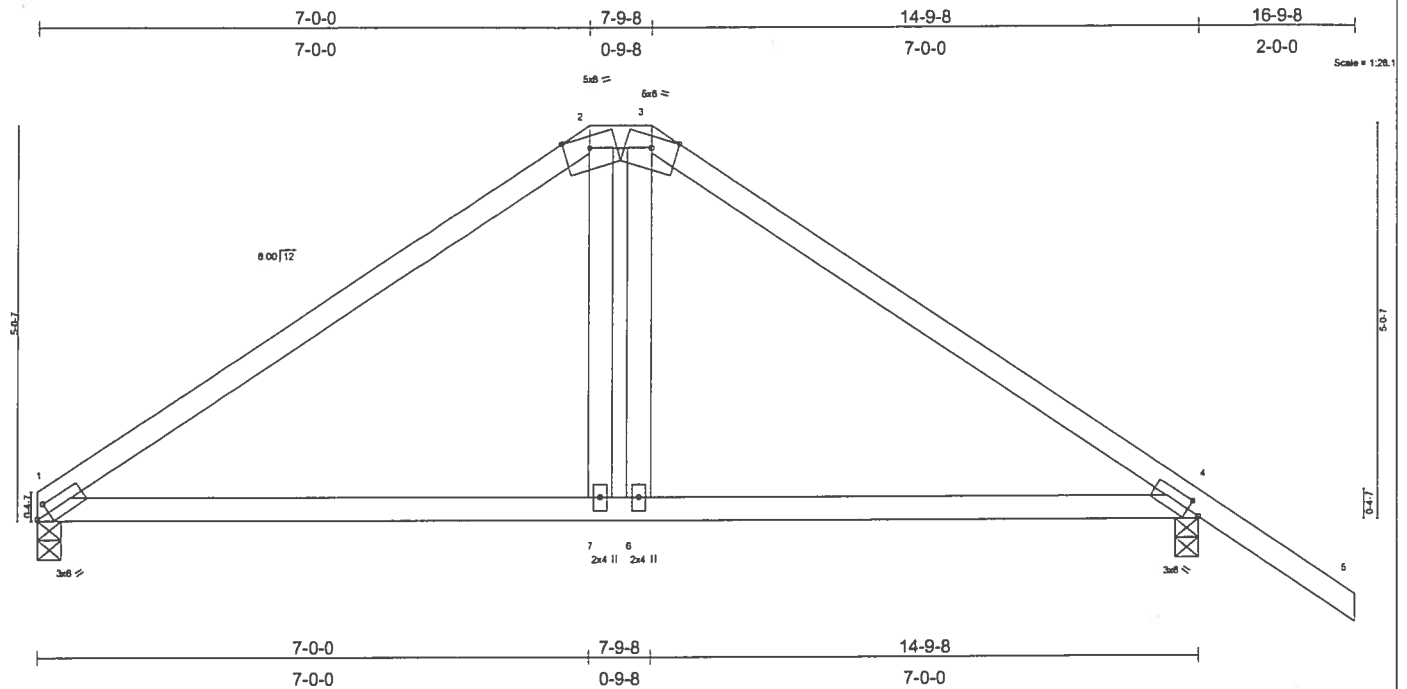


Plate Offsets (X,Y): [1:0-1-15,0-1-8], [4:0-1-15,0-1-8]

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.39  | Ver(LL)  | -0.12 | 1-7   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.42  | Ver(TL)  | -0.16 | 1-7   | >999   | 180 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.11  | Horz(TL) | 0.01  | 4     | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |       |       |        |     |               |         |
|               | Code FBC2001/ANSI95  |          |          |       |       |        |     |               |         |
|               |                      |          |          |       |       |        |     | Weight: 66 lb |         |

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

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

**REACTIONS** (lb/size) 1=600/0-3-8, 4=733/0-3-8  
 Max Horz 1=231(load case 3)  
 Max Uplift 1=224(load case 5), 4=389(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-2=-740/315, 2-3=-538/377, 3-4=-745/324, 4-5=0/59  
 BOT CHORD 1-7=-126/534, 6-7=-121/538, 4-6=-115/534  
 WEBS 2-7=-289/323, 3-6=-282/336

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-98; 120mph (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.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at joint 1 and 389 lb uplift at joint 4.

**LOAD CASE(S)** Standard

|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905074           |
| L131851 | T28   | COMMON     | 2   | 1   | Job Reference (optional) |

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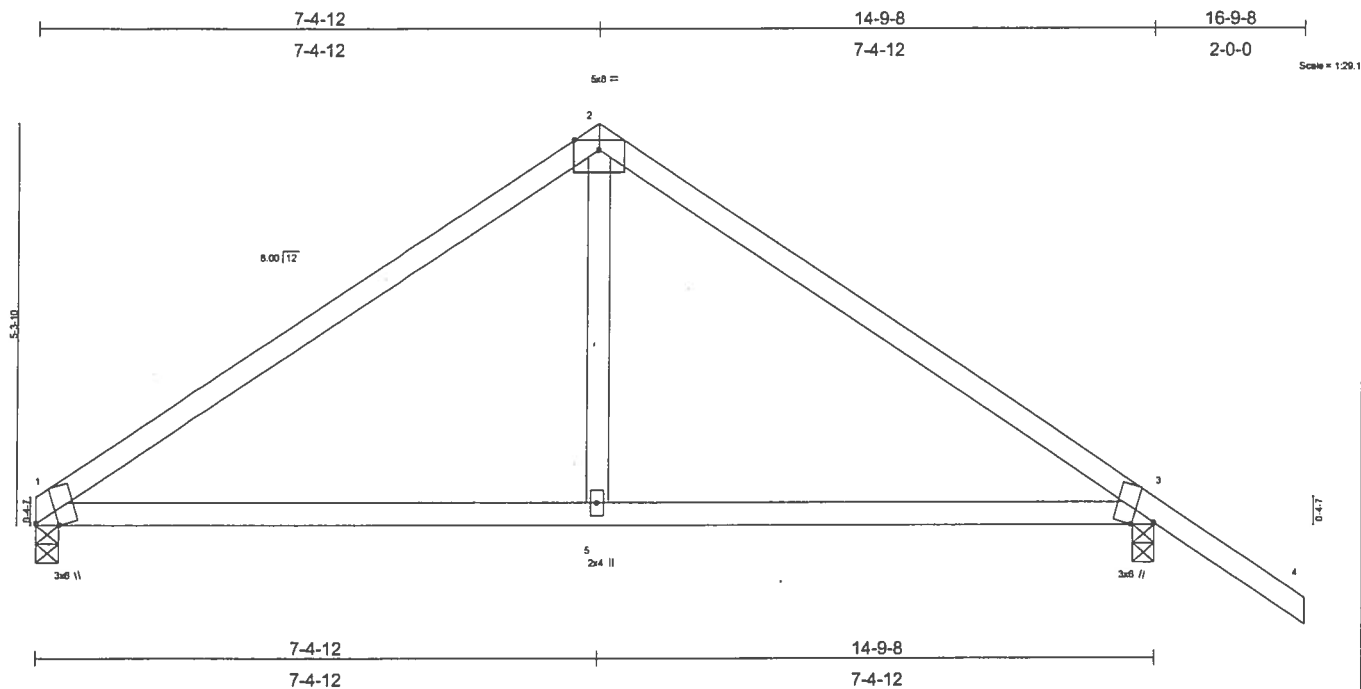


Plate Offsets (X,Y): [1:0-1-5,Edge], [3:0-1-5,Edge]

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES        | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|---------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.39  | Vert(LL) | 0.11  | 1-5   | >999   | 240 | MT20          | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.43  | Vert(TL) | -0.15 | 1-5   | >999   | 180 |               |         |
| BCLL 10.0     | Lumber Increase 1.25 | WB 0.09  | Horz(TL) | 0.01  | 3     | n/a    | n/a |               |         |
| BCDL 5.0      | Rep Stress Incr YES  | (Matrix) |          |       |       |        |     |               |         |
|               | Code FBC2001/ANSI95  |          |          |       |       |        |     |               |         |
|               |                      |          |          |       |       |        |     | Weight: 60 lb |         |

#### LUMBER

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

#### BRACING

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

#### REACTIONS

(lb/size) 1=600/0-3-8, 3=733/0-3-8  
Max Horz 1=-241(load case 3)  
Max Uplift 1=-227(load case 5), 3=-392(load case 6)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=-739/311, 2-3=-744/319, 3-4=0/59  
BOT CHORD 1-5=-129/533, 3-5=-129/533  
WEBS 2-5=0/284

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-98; 120mph (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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 227 lb uplift at joint 1 and 392 lb uplift at joint 3.

LOAD CASE(S) Standard

|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905075           |
| L131851 | T29   | COMMON     | 1   | 2   | Job Reference (optional) |

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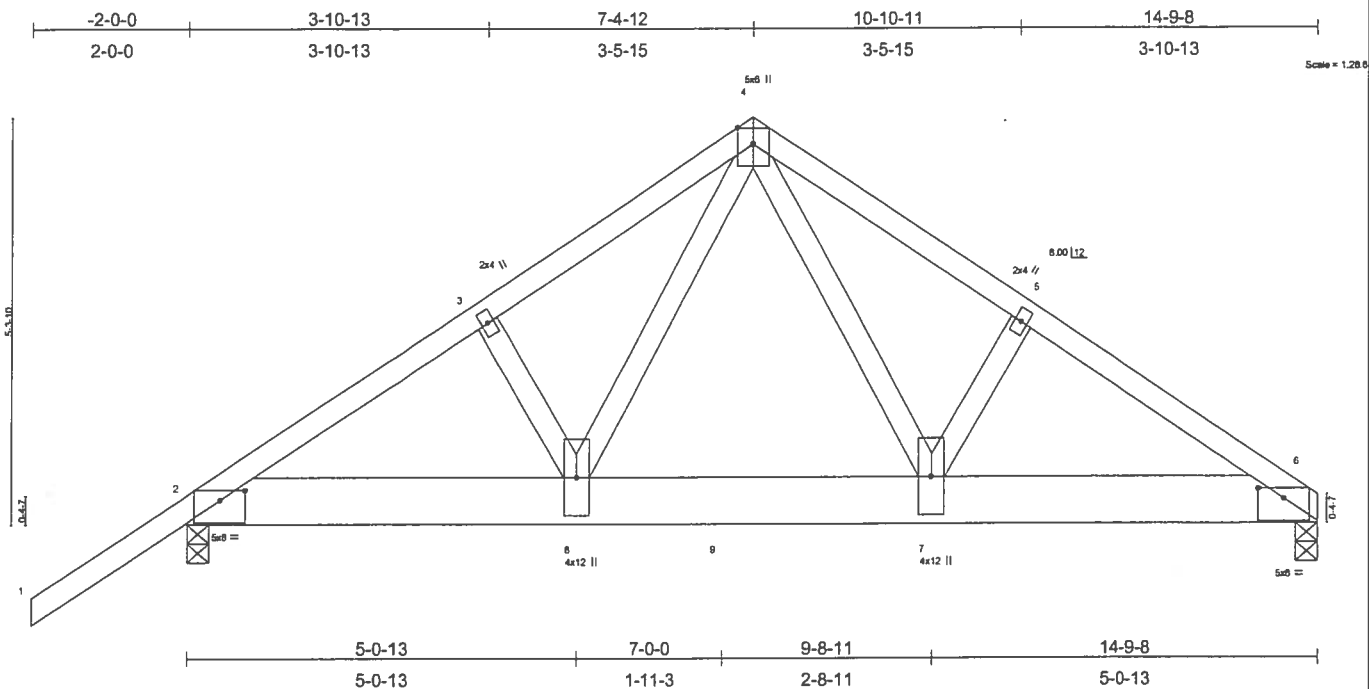


Plate Offsets (X,Y): [2-0-4-0,0-1-9], [6-0-4-0,0-1-9]

| LOADING (psf) | SPACING              | CSI      | DEFL     | in    | (loc) | l/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase 1.25 | TC 0.32  | Ver(LL)  | -0.12 | 7-8   | >999   | 240 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase 1.25 | BC 0.68  | Ver(TL)  | -0.16 | 7-8   | >999   | 180 |                |         |
| BCLL 10.0     | Rep Stress Incr NO   | WB 0.87  | Horz(TL) | -0.02 | 2     | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2001/ANSI95  | (Matrix) |          |       |       |        |     |                |         |
|               |                      |          |          |       |       |        |     | Weight: 196 lb |         |

**LUMBER**  
TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 8 SYP No.1D  
WEBS 2 X 4 SYP No.3

**BRACING**  
TOP CHORD Sheathed or 4-10-4 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 6=5670/0-3-8, 2=3635/0-3-8  
Max Horz 6=239(load case 2)  
Max Uplift 6=2731(load case 4), 2=1815(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 4-5=-7636/3737, 5-6=-7732/3697, 1-2=0/65, 2-3=-6392/2996, 3-4=-6280/3021  
BOT CHORD 2-8=-2403/5249, 8-9=-1822/3996, 7-9=-1822/3996, 6-7=-3084/6399  
WEBS 5-7=-129/201, 4-7=-2695/5402, 4-8=-1335/2816, 3-8=-91/169

#### 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 8 - 3 rows at 0-4-0 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 7-98; 120mph (3-second gust); h=20ft; TCCL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2731 lb uplift at joint 6 and 1815 lb uplift at joint 2.
- Girder carries tie-in span(s): 33-0-8 from 7-0-0 to 14-9-8
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3034 lb down and 1462 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

#### LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 4-6=-54, 1-4=-54, 2-9=-30, 6-9=-676(F=-646)  
Concentrated Loads (lb)  
Vert: 9=-3034(F)

|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905076           |
| L131851 | T31   | HIP        | 1   | 1   | Job Reference (optional) |

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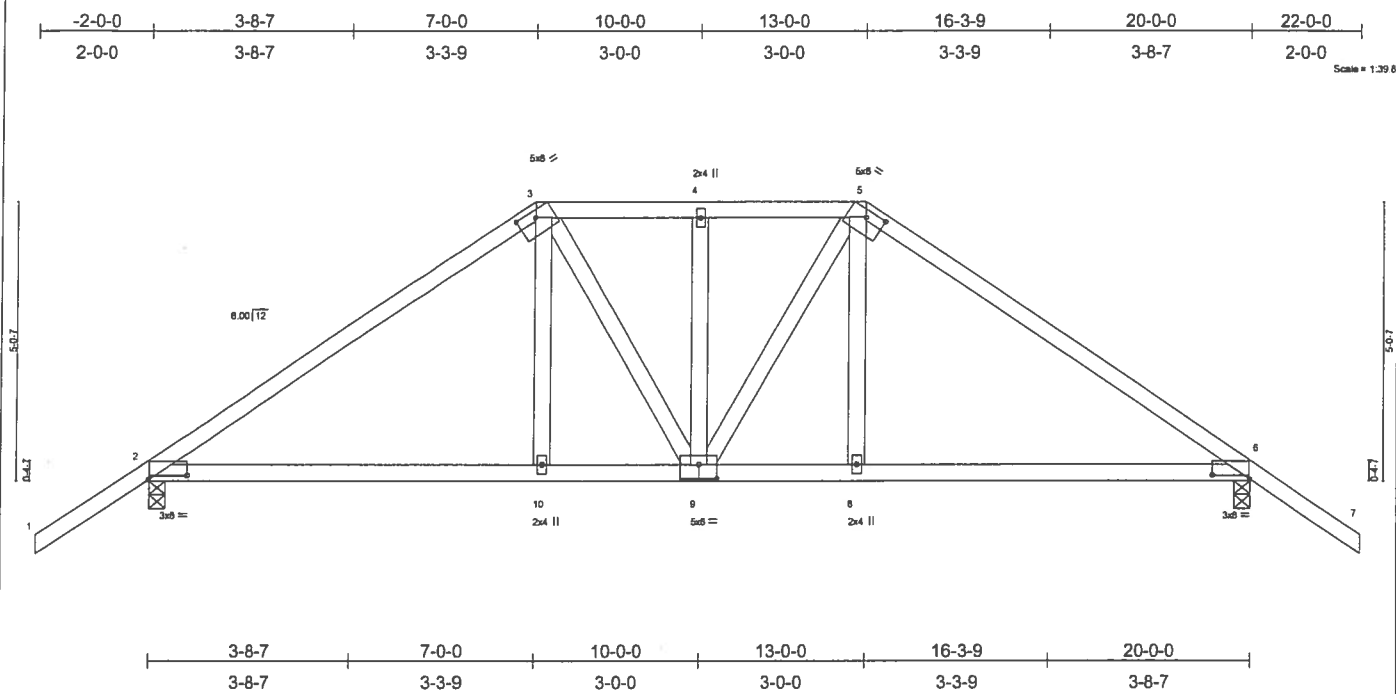


Plate Offsets (X,Y): [2-0-8-3,0-0-14], [3-0-4-0,0-1-9], [5-0-4-0,0-1-9], [6-0-8-3,0-0-14], [9-0-4-0,0-3-0]

| LOADING (psf) | SPACING              | CSI      | DEFL     | In    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|----------------------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | 2-0-0                | TC 0.55  | Vert(LL) | -0.11 | 2-10  | >999   | 240 | MT20           | 244/190 |
| TCDL 7.0      | Plates Increase 1.25 | BC 0.58  | Vert(TL) | -0.16 | 2-10  | >999   | 180 |                |         |
| BCCL 10.0     | Lumber Increase 1.25 | WB 0.25  | Horz(TL) | 0.05  | 6     | n/a    | n/a |                |         |
| BCDL 5.0      | Rep Stress Incr NO   | (Matrix) |          |       |       |        |     |                |         |
|               | Code FBC2001/ANSI95  |          |          |       |       |        |     |                |         |
|               |                      |          |          |       |       |        |     | Weight: 107 lb |         |

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

**BRACING**  
TOP CHORD Sheathed or 3-8-15 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 5-3-15 oc bracing.

**REACTIONS** (lb/size) 2=1774/0-3-8, 6=1774/0-3-8  
Max Horiz 2=203(load case 3)  
Max Uplift 2=1227(load case 4), 6=1227(load case 5)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=2558/1691, 3-4=2147/1565, 4-5=2147/1564, 5-6=2558/1692, 6-7=0/59  
BOT CHORD 2-10=1462/2026, 9-10=1476/2050, 8-9=1332/2050, 6-8=1319/2026  
WEBS 3-10=467/794, 3-9=421/298, 4-9=261/490, 5-9=422/298, 5-8=467/794

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-98; 120mph (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.
- Provide adequate drainage to prevent water ponding.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1227 lb uplift at joint 2 and 1227 lb uplift at joint 6.
- Girder carries hip end with 7-0-0 end setback.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 539 lb down and 506 lb up at 13-0-0, and 539 lb down and 506 lb up at 7-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-3=54, 3-5=118(F=64), 5-7=54, 2-10=30, 8-10=65(F=35), 6-8=30  
Concentrated Loads (lb)  
Vert: 10=539(F) 8=539(F)

|                                           |              |                   |                                                                                                        |          |                |
|-------------------------------------------|--------------|-------------------|--------------------------------------------------------------------------------------------------------|----------|----------------|
| Job<br>L131851                            | Truss<br>T32 | Truss Type<br>HIP | Qty<br>1                                                                                               | Ply<br>1 | Dwg.#091905077 |
| Builders FirstSource, Lake City, FL 32055 |              |                   | Job Reference (optional)<br>6.200 s Jul 13 2005 Mitek Industries, Inc. Thu Sep 15 15:27:21 2005 Page 1 |          |                |

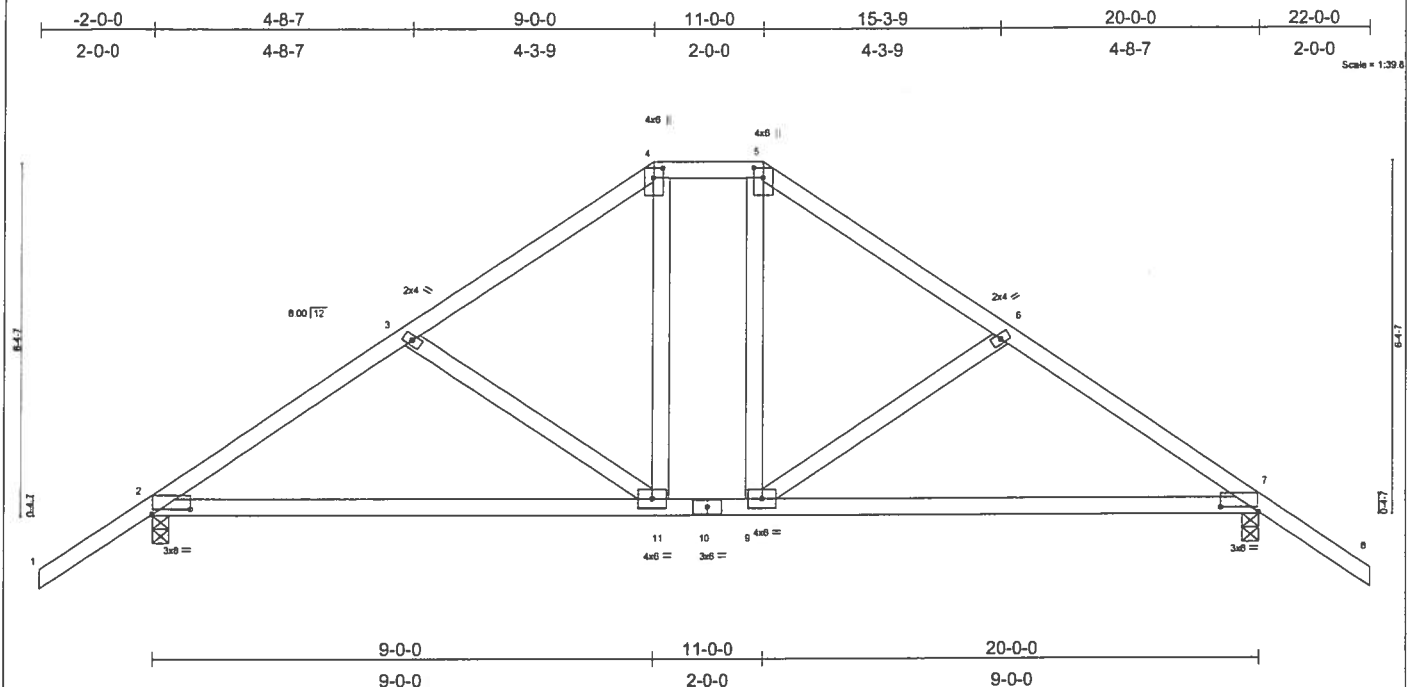


Plate Offsets (X,Y): [2-0-8-3,0-1-2], [4-0-2-3,0-2-0], [5-0-2-3,0-2-0], [7-0-8-3,0-1-2]

| LOADING (psf) | SPACING         | 2-0-0          | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|-----------------|----------------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase | 1.25           | TC 0.33  | Vert(LL) | -0.16 | 2-11  | >999   | 240 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase | 1.25           | BC 0.45  | Vert(TL) | -0.23 | 2-11  | >999   | 180 |                |         |
| BCLL 10.0     | Rep Stress Incr | YES            | WB 0.14  | Horz(TL) | 0.02  | 7     | n/a    | n/a |                |         |
| BCDL 5.0      | Code            | FBC2001/ANSI95 | (Matrix) |          |       |       |        |     | Weight: 105 lb |         |

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

**BRACING**  
TOP CHORD Sheathed or 5-11-14 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 2=944/0-3-8, 7=944/0-3-8  
Max Horz 2=259(load case 4)  
Max Uplift 2=461(load case 5), 7=461(load case 6)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=1096/494, 3-4=888/429, 4-5=683/426, 5-6=888/429, 6-7=1096/494, 7-8=0/59  
BOT CHORD 2-11=324/868, 10-11=121/683, 9-10=121/683, 7-9=201/868  
WEBS 3-11=254/271, 4-11=90/293, 5-9=90/293, 6-9=254/272

**NOTES**  
1) Unbalanced roof live loads have been considered for this design.  
2) Wind: ASCE 7-98; 120mph (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 adequate drainage to prevent water ponding  
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 461 lb uplift at joint 2 and 461 lb uplift at joint 7.

**LOAD CASE(S)** Standard

|         |       |            |     |     |                |
|---------|-------|------------|-----|-----|----------------|
| Job     | Truss | Truss Type | Qty | Ply | Dwg.#091905078 |
| L131851 | T33   | COMMON     | 5   | 1   |                |

Job Reference (optional)

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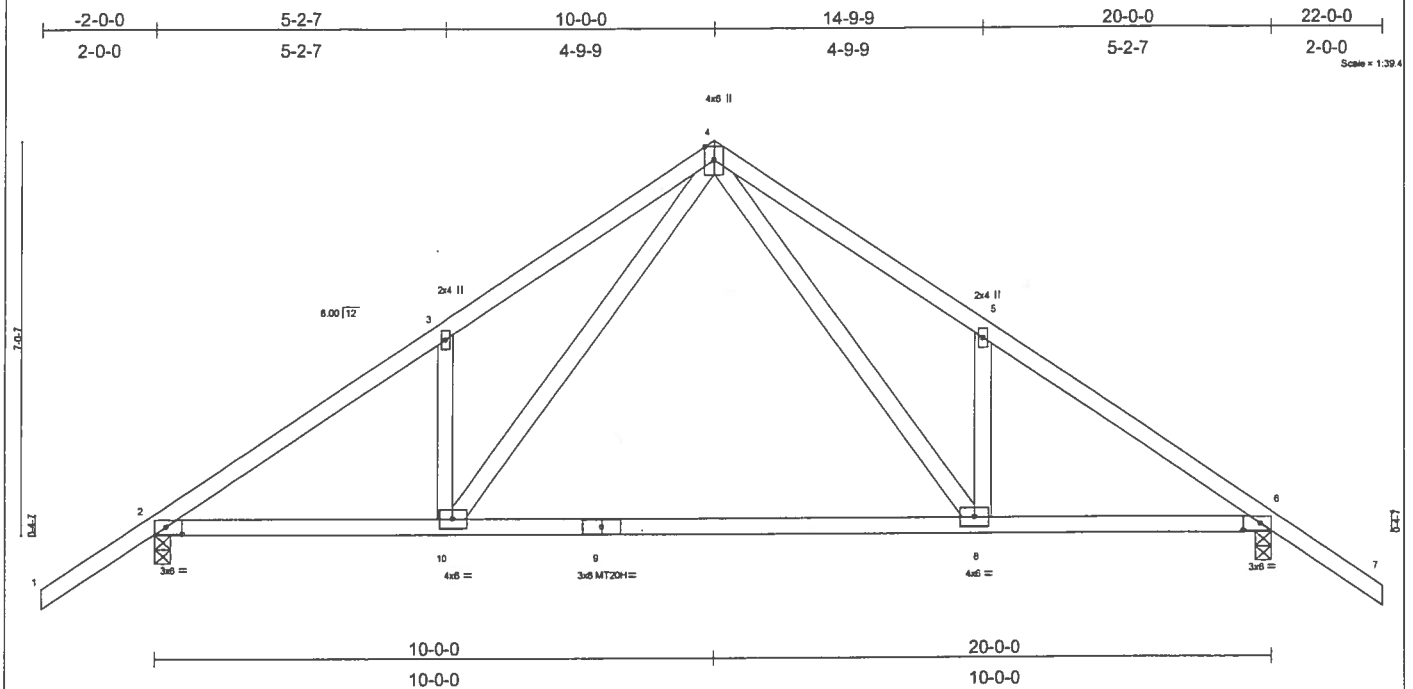


Plate Offsets (X,Y): [2-0-3-9,0-1-8], [6-0-3-9,0-1-8]

| LOADING (psf) | SPACING             | 2-0-0 | CSI      | DEFL     | In    | (loc) | I/defl | L/d | PLATES         | GRIP    |
|---------------|---------------------|-------|----------|----------|-------|-------|--------|-----|----------------|---------|
| TCLL 20.0     | Plates Increase     | 1.25  | TC 0.41  | Vert(LL) | -0.47 | 8-10  | >498   | 240 | MT20           | 244/190 |
| TCDL 7.0      | Lumber Increase     | 1.25  | BC 0.93  | Vert(TL) | -0.68 | 8-10  | >349   | 180 | MT20H          | 187/143 |
| BCLL 10.0     | Rep Stress Incr     | NO    | WB 0.59  | Horz(TL) | 0.03  | 6     | n/a    | n/a |                |         |
| BCDL 5.0      | Code FBC2001/ANSI95 |       | (Matrix) |          |       |       |        |     |                |         |
|               |                     |       |          |          |       |       |        |     | Weight: 107 lb |         |

#### LUMBER

TOP CHORD 2 X 4 SYP No.2D  
BOT CHORD 2 X 4 SYP No.1D  
WEBS 2 X 4 SYP No.3

#### BRACING

TOP CHORD Sheathed or 4-7-12 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 9-0-15 oc bracing.

#### REACTIONS

(lb/size) 2=1183/0-3-8, 6=1183/0-3-8  
Max Horz 2=286(load case 3)  
Max Uplift 2=584(load case 5), 6=584(load case 6)

#### FORCES

(lb) - Maximum Compression/Maximum Tension  
TOP CHORD 1-2=0/59, 2-3=1732/677, 3-4=1679/858, 4-5=1679/858, 5-6=1732/677, 6-7=0/59  
BOT CHORD 2-10=511/1345, 9-10=221/809, 8-9=221/809, 6-8=397/1345  
WEBS 4-10=499/942, 4-8=500/942, 3-10=200/319, 5-8=200/319

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-98; 120mph (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.
- All plates are MT20 plates unless otherwise indicated.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 584 lb uplift at joint 2 and 584 lb uplift at joint 6.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

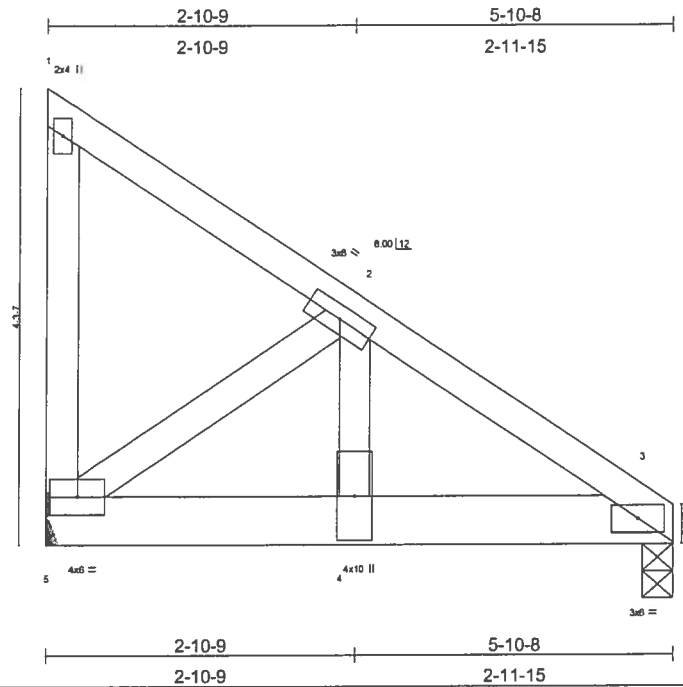
#### LOAD CASE(S) Standard

- Regular: Lumber Increase=1.25, Plate Increase=1.25  
Uniform Loads (plf)  
Vert: 1-4=-54, 4-7=-54, 2-10=-30, 8-10=-80(F=50), 6-8=-30

|         |       |            |     |     |                          |
|---------|-------|------------|-----|-----|--------------------------|
| Job     | Truss | Truss Type | Qty | Ply | Job Reference (optional) |
| L131851 | T34   | SPECIAL    | 1   | 1   |                          |

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| LOADING (psf) | SPACING             | 2-0-0 | CSI      | DEFL     | in    | (loc) | I/defl | L/d | PLATES | GRIP          |
|---------------|---------------------|-------|----------|----------|-------|-------|--------|-----|--------|---------------|
| TCLL 20.0     | Plates Increase     | 1.25  | TC 0.17  | Vert(LL) | 0.02  | 3-4   | >999   | 240 | MT20   | 244/190       |
| TCDL 7.0      | Lumber Increase     | 1.25  | BC 0.38  | Vert(TL) | -0.02 | 3-4   | >999   | 180 |        |               |
| BCLL 10.0     | Rep Stress Incr     | NO    | WB 0.49  | Horz(TL) | 0.01  | 3     | n/a    | n/a |        |               |
| BCDL 5.0      | Code FBC2001/ANSI95 |       | (Matrix) |          |       |       |        |     |        | Weight: 37 lb |

**LUMBER**  
 TOP CHORD 2 X 4 SYP No.2D  
 BOT CHORD 2 X 6 SYP No.1D  
 WEBS 2 X 4 SYP No.3

**BRACING**  
 TOP CHORD Sheathed or 5-3-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS** (lb/size) 5=1483/Mechanical, 3=1483/0-3-8  
 Max Horz 5=-208(load case 4)  
 Max Uplift 5=-806(load case 4), 3=-665(load case 4)

**FORCES** (lb) - Maximum Compression/Maximum Tension  
 TOP CHORD 1-5=-64/75, 1-2=-55/27, 2-3=-1501/620  
 BOT CHORD 4-5=-475/1212, 3-4=-475/1212  
 WEBS 2-5=-1492/823, 2-4=-704/1535

**NOTES**

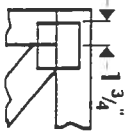
- 1) Wind: ASCE 7-98; 120mph (3-second gust); h=20ft; TCDL=4.2psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; Lumber DOL=1.60 plate grip DOL=1.60.
- 2) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 806 lb uplift at joint 5 and 665 lb uplift at joint 3.
- 4) Girder carries tie-in span(s): 23-5-0 from 0-0-0 to 5-10-8
- 5) 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

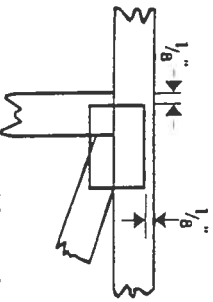
- 1) Regular: Lumber Increase=1.25, Plate Increase=1.25  
 Uniform Loads (plf)  
 Vert: 1-3=-54, 3-5=-477(F=-447)

# 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 seal.



\*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.

## PLATE SIZE

4 X 4

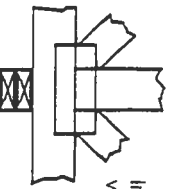
The first dimension is the width perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING



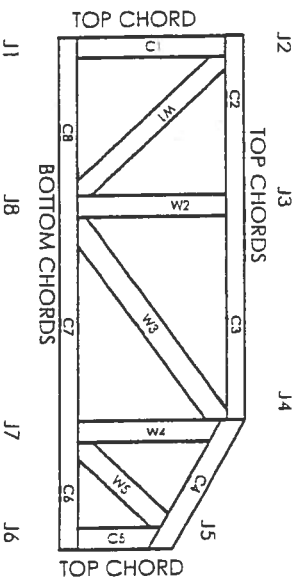
Indicates location of required continuous lateral bracing.

## BEARING



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

# Numbering System

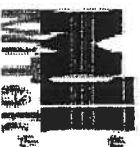


JOINTS AND CHORDS ARE NUMBERED CLOCKWISE AROUND THE TRUSS STARTING AT THE LOWEST JOINT FARTHEST TO THE LEFT.

WEBS ARE NUMBERED FROM LEFT TO RIGHT

## CONNECTOR PLATE CODE APPROVALS

|            |                    |
|------------|--------------------|
| BOCA       | 96-31, 96-67       |
| ICBO       | 3907, 4922         |
| SBCCI      | 9667, 9432A        |
| WISC/DILHR | 960022-W, 970036-N |
| NER        | 561                |



MITek Engineering Reference Sheet: MII-7473



## 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, properly 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, locate chord splices at 1/4 panel length ( $\pm 6"$  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 member 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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