

|            |       |            |     |     |                               |
|------------|-------|------------|-----|-----|-------------------------------|
| Job        | Truss | Truss Type | Qty | Ply | NM/RichardL@EZSIPSCorp./52GSL |
| J180100042 | A01   | COMMON     | 10  | 1   | Job Reference (optional)      |

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ID:bUWSrnTpmHtQ?fApYjPhejyl1TB-dXE08O?lcqDWpASKlKxKHxP7QmH4Mh7x\_pqfL5zruAz

Scale: 1/4"=1'

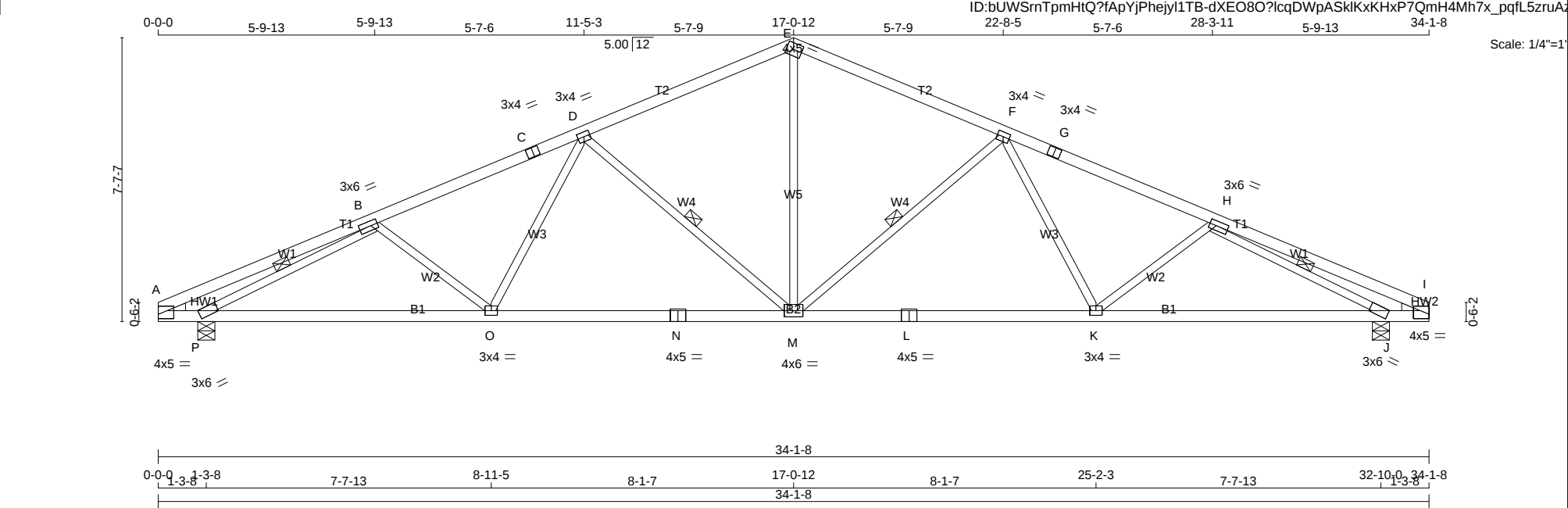


Plate Offsets (X,Y)--
[B:0-2-4,0-1-8],
[E:0-2-12,0-2-0],
[H:0-2-4,0-1-8],
[J:Edge,0-0-8]

|                      |                      |             |                             |                |             |
|----------------------|----------------------|-------------|-----------------------------|----------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING-</b>      | <b>CSI.</b> | <b>DEFL.</b>                | <b>PLATES</b>  | <b>GRIP</b> |
| TCLL 40.0            | 2-0-0                | TC 0.81     | in (loc) l/defl L/d         | MT20           | 197/144     |
| (Ground Snow=52.0)   | Plate Grip DOL 1.15  | BC 0.99     | Vert(LL) -0.26 M-O >999 240 |                |             |
| TCDL 7.0             | Lumber DOL 1.15      | WB 0.87     | Vert(CT) -0.39 K-M >973 180 |                |             |
| BCLL 0.0 *           | Rep Stress Incr YES  | Matrix-S    | Horz(CT) 0.14 J n/a n/a     |                |             |
| BCDL 8.0             | Code IBC2015/TPI2014 |             |                             | Weight: 123 lb | FT = 20%    |

|                                         |                                                                           |
|-----------------------------------------|---------------------------------------------------------------------------|
| <b>LUMBER-</b>                          | <b>BRACING-</b>                                                           |
| TOP CHORD 2x4 SPF No.2                  | TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. |
| BOT CHORD 2x4 SPF No.2                  | BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.             |
| WEBS 2x3 SPF No.2                       | WEBS 1 Row at midpt F-M, D-M, B-P, H-J                                    |
| WEDGE                                   |                                                                           |
| Left: 2x3 SPF No.2, Right: 2x3 SPF No.2 |                                                                           |

**REACTIONS.** (lb/size) P=1878/0-5-8, J=1878/0-5-8  
Max Horz P=96(LC 10)  
Max UpliftP=-146(LC 10), J=-146(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD A-B=-405/0, B-C=-2943/209, C-Q=-2771/222, D-Q=-2756/225, D-E=-2227/186, E-F=-2227/186, F-R=-2756/225, G-R=-2771/222, G-H=-2943/209, H-I=-405/0  
BOT CHORD A-P=0/353, O-P=-284/2772, N-O=-182/2515, M-N=-182/2515, L-M=-87/2515, K-L=-87/2515, J-K=-188/2772, I-J=0/353  
WEBS E-M=-53/1144, F-M=-951/166, F-K=0/276, D-M=-951/166, D-O=0/276, B-P=-2885/332, H-J=-2885/332

**JOINT STRESS INDEX**  
A = 0.67, B = 0.83, C = 0.69, D = 0.64, E = 0.73, F = 0.64, G = 0.69, H = 0.83, I = 0.67, J = 0.96, K = 0.65, L = 0.77, M = 0.69, N = 0.77, O = 0.65 and P = 0.96

**NOTES-**  
1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33  
2) TCLL: ASCE 7-10; Pg= 52.0 psf (ground snow); Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.1  
3) Unbalanced snow loads have been considered for this design.  
4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.

|            |         |               |     |     |                               |
|------------|---------|---------------|-----|-----|-------------------------------|
| Job        | Truss   | Truss Type    | Qty | Ply | NM/RichardL@EZSIPSCorp./52GSL |
| J180100042 | A01-GIR | Common Girder | 2   | 2   | Job Reference (optional)      |

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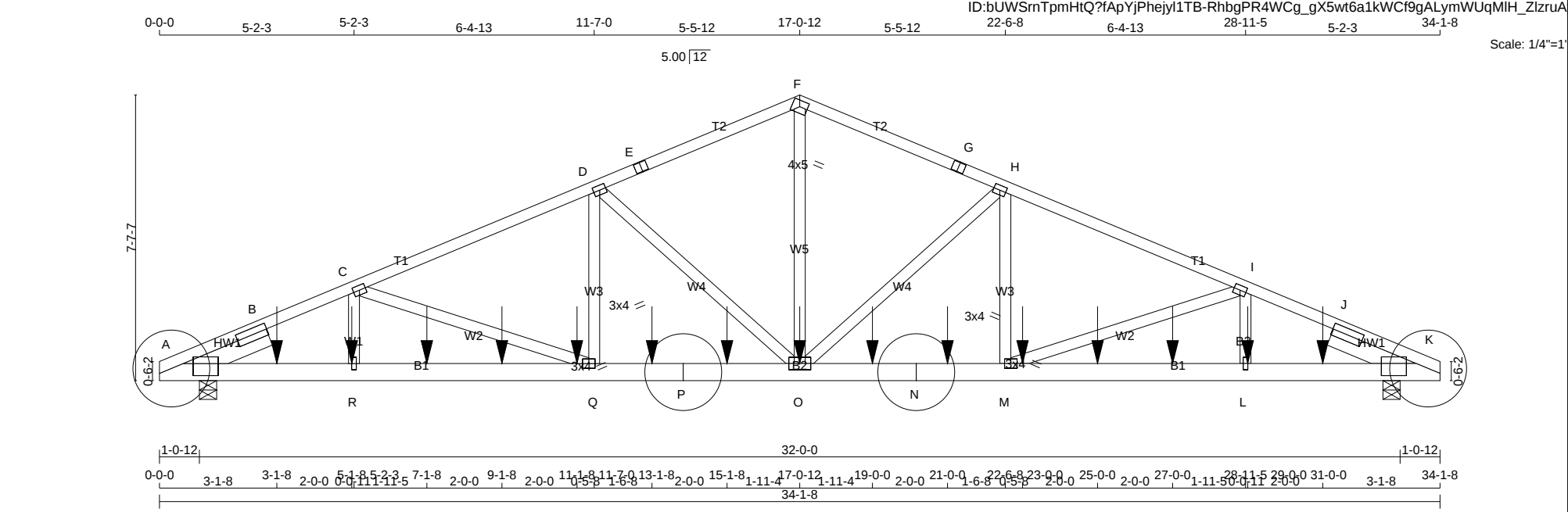


Plate Offsets (X,Y)--

[A:0-3-2,0-3-14], [A:0-3-13,0-1-9], [K:0-3-2,0-3-14], [K:1-6-2,0-1-9]

|                      |                      |            |                             |                       |             |
|----------------------|----------------------|------------|-----------------------------|-----------------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING</b>       | <b>CSI</b> | <b>DEFL.</b>                | <b>PLATES</b>         | <b>GRIP</b> |
| TCLL 40.0            | 2-0-0                | TC 0.76    | in (loc) l/def L/d          | MT20 $\overline{3x4}$ | 197/144     |
| (Ground Snow=52.0)   | Plate GIP DOL 1.15   | BC 0.90    | Vert(LL) -0.27 O-Q >999 240 |                       |             |
| TCDL 7.0             | Lumber DOL 1.15      | WB 0.43    | Vert(CT) -0.36 O-Q >999 180 |                       |             |
| BCLL 0.0 *           | Rep Stress Incr NO   | Matrix-R   | Horz(CT) 0.12 K n/a n/a     |                       |             |
| BCDL 8.0             | Code IBC2015/TPI2014 |            |                             | Weight: 331 lb        | FT = 20%    |

|                                                            |                                                                            |
|------------------------------------------------------------|----------------------------------------------------------------------------|
| <b>LUMBER-</b>                                             | <b>BRACING-</b>                                                            |
| TOP CHORD 2x4 SPF No.2                                     | TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins. |
| BOT CHORD 2x6 SPF No.2                                     | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.             |
| WEBS 2x4 SPF No.2                                          |                                                                            |
| SLIDER Left 2x6 SPF No.2 2-4-10, Right 2x6 SPF No.2 2-4-10 |                                                                            |

REACTIONS. (lb/size)

A=3656/0-5-8, K=3656/0-5-8

Max Horz A=-94(LC 28)

Max UpliftA=-869(LC 10), K=-869(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD A-B=7826/1893, B-C=-7725/1911, C-S=-6486/1721, D-S=-6277/1732, D-E=-4944/1408, E-F=-4837/1424, F-G=-4837/1424, G-H=-4944/1408, H-T=-6277/1732, I-T=-6486/1721, I-J=-7725/1912, J-K=-7826/1895

BOT CHORD A-U=-1797/7066, R-U=-1797/7066, R-V=-1797/7066, V-W=-1797/7066, W-X=-1797/7066, Q-X=-1797/7066, Q-Y=-1578/5892, P-Y=-1578/5892, P-Z=-1578/5892, O-Z=-1578/5892, O-AA=-1483/5892, N-AA=-1483/5892, N-AB=-1483/5892, M-AB=-1483/5892, M-AC=-1703/7066, AC-AD=-1703/7066, AD-AE=-1703/7066, L-AE=-1703/7066, L-AF=-1703/7066, K-AF=-1703/7066

WEBS F-O=-1007/3247, H-O=-2114/506, H-M=-316/1269, I-M=-1246/233, I-L=-75/621, D-O=-2114/506, D-Q=-316/1269, C-Q=-1246/232, C-R=-75/621

JOINT STRESS INDEX

A = 0.80, A = 0.85, A = 0.00, B = 0.00, C = 0.64, D = 0.76, E = 0.59, F = 0.79, G = 0.59, H = 0.76, I = 0.64, J = 0.00, K = 0.80, K = 0.85, K = 0.00, L = 0.51, M = 0.65, N = 0.84, O = 0.70, P = 0.84, Q = 0.65 and R = 0.51

|            |         |               |     |     |                               |
|------------|---------|---------------|-----|-----|-------------------------------|
| Job        | Truss   | Truss Type    | Qty | Ply | NM/RichardL@E2SIPSCorp./52GSL |
| J180100042 | A01-GIR | Common Girder | 2   | 2   | Job Reference (optional)      |

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:  
Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - 2) 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.
  - 3) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TC DL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 4) TCLL: ASCE 7-10; Pg= 52.0 psf (ground snow); Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.1
  - 5) Unbalanced snow loads have been considered for this design.
  - 6) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 869 lb uplift at joint A and 869 lb uplift at joint K.
  - 10) Following joints to be plated by qualified designer: Joint(s) A, K, N, P, not plated.
  - 11) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
  - 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 348 lb down and 95 lb up at 3-1-8, 211 lb down and 60 lb up at 5-1-8, 227 lb down and 67 lb up at 7-1-8, 227 lb down and 74 lb up at 9-1-8, 227 lb down and 91 lb up at 11-1-8, 227 lb down and 124 lb up at 13-1-8, 227 lb down and 164 lb up at 15-1-8, 220 lb down and 202 lb up at 17-0-12, 227 lb down and 164 lb up at 19-0-0, 227 lb down and 124 lb up at 21-0-0, 227 lb down and 91 lb up at 23-0-0, 227 lb down and 74 lb up at 25-0-0, 227 lb down and 67 lb up at 27-0-0, and 211 lb down and 60 lb up at 29-0-0, and 348 lb down and 95 lb up at 31-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S) Standard**

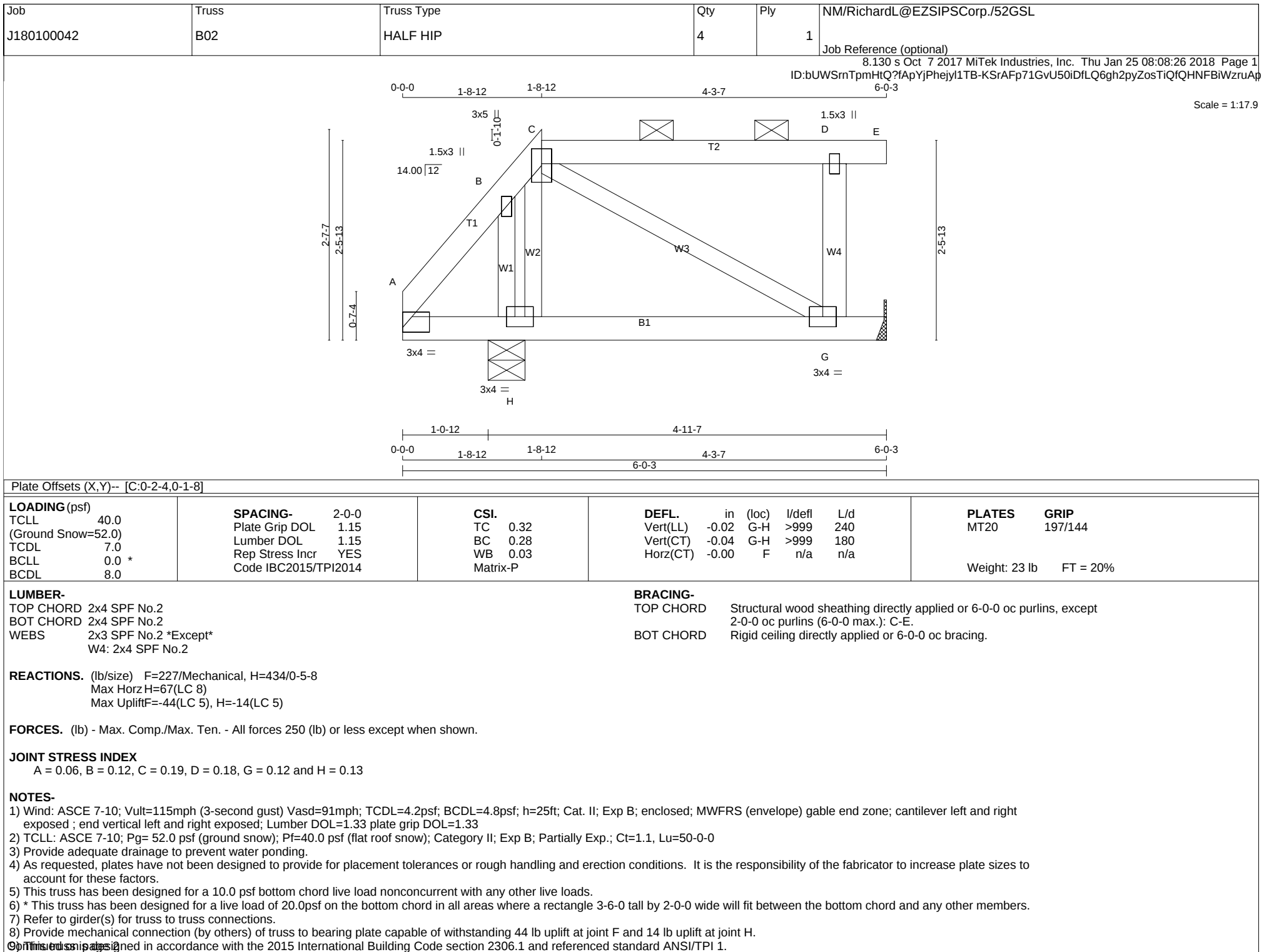
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-F=-94, F-K=-94, A-K=-16  
Concentrated Loads (lb)  
Vert: O=-220(F) L=-211(F) R=-211(F) U=-348(F) V=-227(F) W=-227(F) X=-227(F) Y=-227(F) Z=-227(F) AA=-227(F) AB=-227(F) AC=-227(F) AD=-227(F) AE=-227(F) AF=-348(F)

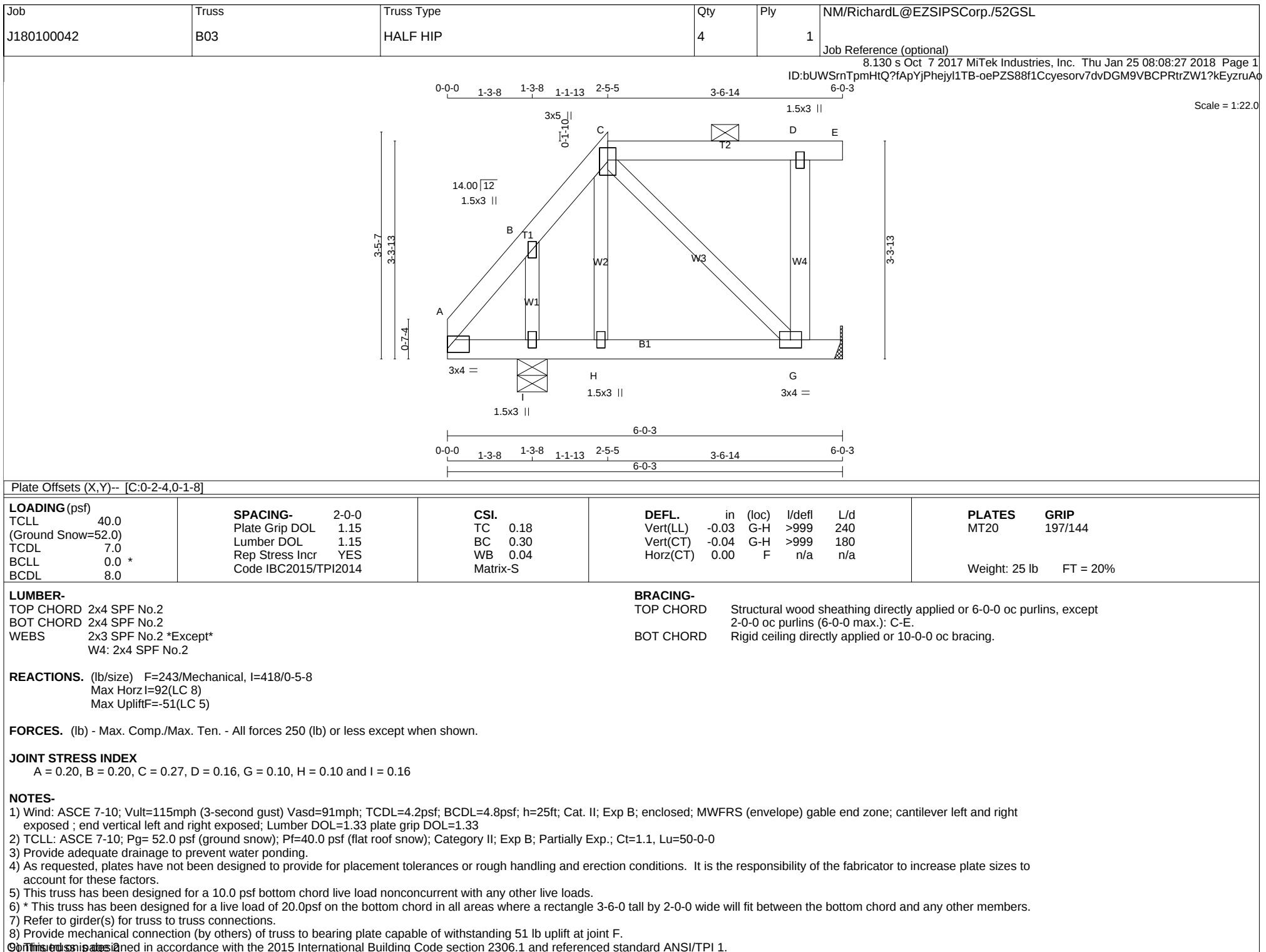


|            |         |                 |     |     |                               |
|------------|---------|-----------------|-----|-----|-------------------------------|
| Job        | Truss   | Truss Type      | Qty | Ply | NM/RichardL@EzsIPSCorp./52GSL |
| J180100042 | B01-GIR | Half Hip Girder | 4   | 1   | Job Reference (optional)      |

**NOTES-**  
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb down and 165 lb up at 1-7-0, and 28 lb down and 165 lb up at 3-7-0, and 25 lb down and 138 lb up at 5-4-7 on top chord, and 97 lb down and 40 lb up at 1-7-0, and 97 lb down and 40 lb up at 3-7-0, and 102 lb down and 36 lb up at 5-7-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.  
12) 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) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: A-B=-94, B-D=-94, A-E=-16  
Concentrated Loads (lb)  
Vert: F=-102(F) C=24(F) H=28(F) I=28(F) J=-97(F) K=-97(F)

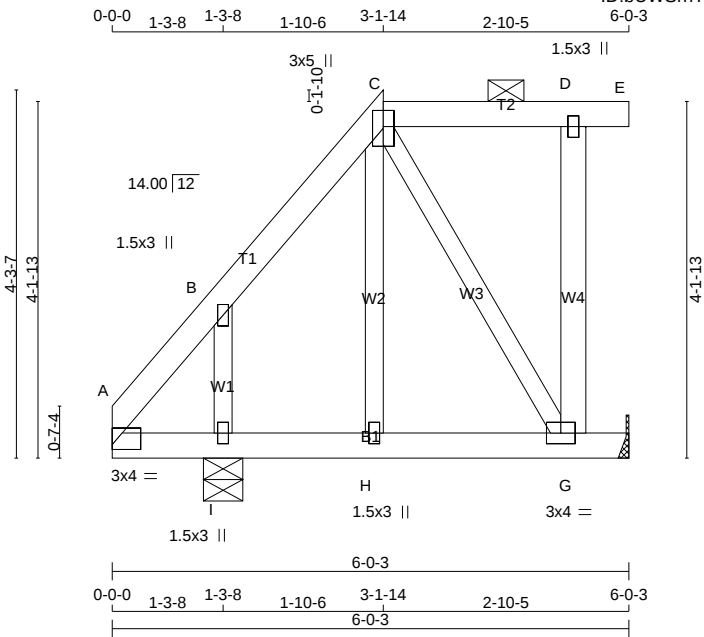




|            |       |            |     |     |                               |
|------------|-------|------------|-----|-----|-------------------------------|
| Job        | Truss | Truss Type | Qty | Ply | NM/RichardL@EZSIPSCorp./52GSL |
| J180100042 | B04   | HALF HIP   | 4   | 1   | Job Reference (optional)      |

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Scale = 1:26.8



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

|                      |                      |             |                             |               |             |
|----------------------|----------------------|-------------|-----------------------------|---------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING-</b>      | <b>CSI.</b> | <b>DEFL.</b>                | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 40.0            | 2-0-0                | TC 0.16     | in (loc) l/defl L/d         | MT20          | 197/144     |
| (Ground Snow=52.0)   | Plate Grip DOL 1.15  | BC 0.29     | Vert(LL) -0.02 G-H >999 240 |               |             |
| TCDL 7.0             | Lumber DOL 1.15      | WB 0.05     | Vert(CT) -0.03 G-H >999 180 |               |             |
| BCLL 0.0 *           | Rep Stress Incr YES  | Matrix-S    | Horz(CT) -0.00 F n/a n/a    |               |             |
| BCDL 8.0             | Code IBC2015/TPI2014 |             |                             | Weight: 28 lb | FT = 20%    |

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>LUMBER-</b>             | <b>BRACING-</b>                                                        |
| TOP CHORD 2x4 SPF No.2     | TOP CHORD                                                              |
| BOT CHORD 2x4 SPF No.2     | Structural wood sheathing directly applied or 6-0-0 oc purlins, except |
| WEBS 2x3 SPF No.2 *Except* | 2-0-0 oc purlins (6-0-0 max.): C-E.                                    |
| W4: 2x4 SPF No.2           | BOT CHORD                                                              |
|                            | Rigid ceiling directly applied or 10-0-0 oc bracing.                   |

|                                                           |
|-----------------------------------------------------------|
| <b>REACTIONS.</b> (lb/size) F=243/Mechanical, I=418/0-5-8 |
| Max Horz I=117(LC 8)                                      |
| Max Uplift F=-58(LC 5)                                    |

|                                                                                             |
|---------------------------------------------------------------------------------------------|
| <b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
|---------------------------------------------------------------------------------------------|

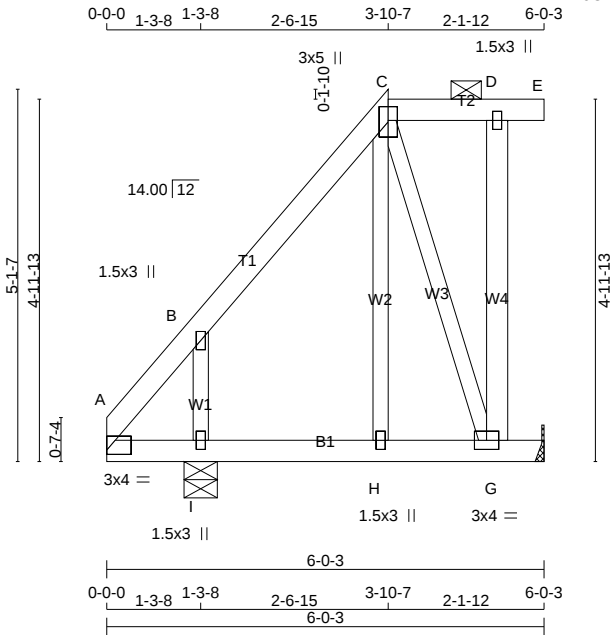
|                                                                         |
|-------------------------------------------------------------------------|
| <b>JOINT STRESS INDEX</b>                                               |
| A = 0.15, B = 0.24, C = 0.28, D = 0.14, G = 0.09, H = 0.10 and I = 0.19 |

|                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NOTES-</b>                                                                                                                                                                                                                                                        |
| 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 |
| 2) TCLL: ASCE 7-10; Pg= 52.0 psf (ground snow); Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.1, Lu=50-0-0                                                                                                                                  |
| 3) Provide adequate drainage to prevent water ponding.                                                                                                                                                                                                               |
| 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.                                       |
| 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.                                                                                                                                                       |
| 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.                                                                    |
| 7) Refer to girder(s) for truss to truss connections.                                                                                                                                                                                                                |
| 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint F.                                                                                                                                              |
| 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.                                                                                                                                 |

|            |       |            |     |     |                               |
|------------|-------|------------|-----|-----|-------------------------------|
| Job        | Truss | Truss Type | Qty | Ply | NM/RichardL@EVSIPSCorp./52GSL |
| J180100042 | B05   | HALF HIP   | 4   | 1   | Job Reference (optional)      |

8.130 s Oct 7 2017 MiTek Industries, Inc. Thu Jan 25 08:08:28 2018 Page 1  
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Scale: 3/8"=1'



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

|                      |                      |             |                             |               |             |
|----------------------|----------------------|-------------|-----------------------------|---------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING-</b>      | <b>CSI.</b> | <b>DEFL.</b>                | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 40.0            | 2-0-0                | TC 0.18     | in (loc) l/defl L/d         | MT20          | 197/144     |
| (Ground Snow=52.0)   | Plate Grip DOL 1.15  | BC 0.27     | Vert(LL) -0.02 G-H >999 240 |               |             |
| TCDL 7.0             | Lumber DOL 1.15      | WB 0.11     | Vert(CT) -0.02 G-H >999 180 |               |             |
| BCLL 0.0 *           | Rep Stress Incr YES  | Matrix-S    | Horz(CT) -0.00 F n/a n/a    |               |             |
| BCDL 8.0             | Code IBC2015/TPI2014 |             |                             | Weight: 30 lb | FT = 20%    |

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>LUMBER-</b>             | <b>BRACING-</b>                                                        |
| TOP CHORD 2x4 SPF No.2     | TOP CHORD                                                              |
| BOT CHORD 2x4 SPF No.2     | Structural wood sheathing directly applied or 6-0-0 oc purlins, except |
| WEBS 2x3 SPF No.2 *Except* | 2-0-0 oc purlins (6-0-0 max.): C-E.                                    |
| W4: 2x4 SPF No.2           | BOT CHORD                                                              |
|                            | Rigid ceiling directly applied or 10-0-0 oc bracing.                   |

|                                                           |
|-----------------------------------------------------------|
| <b>REACTIONS.</b> (lb/size) F=243/Mechanical, I=418/0-5-8 |
| Max Horz I=142(LC 8)                                      |
| Max UpliftF=-75(LC 8)                                     |

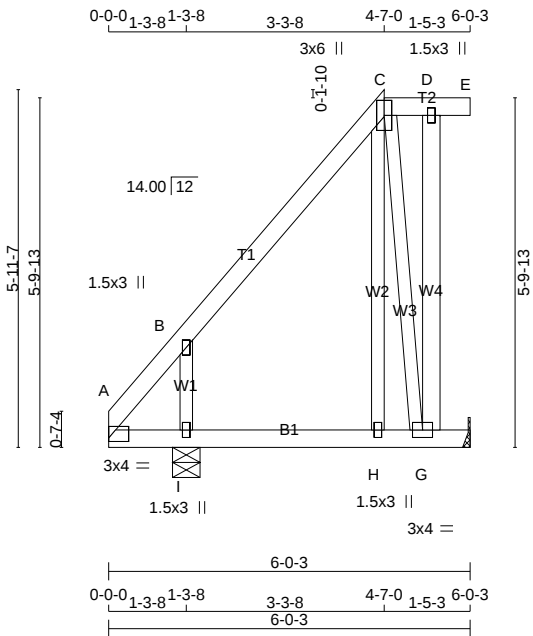
|                                                                                             |
|---------------------------------------------------------------------------------------------|
| <b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| WEBS B-I=-279/107                                                                           |

|                                                                         |
|-------------------------------------------------------------------------|
| <b>JOINT STRESS INDEX</b>                                               |
| A = 0.11, B = 0.27, C = 0.38, D = 0.11, G = 0.20, H = 0.12 and I = 0.22 |

|                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NOTES-</b>                                                                                                                                                                                                                                                         |
| 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCCL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 |
| 2) TCLL: ASCE 7-10; Pg= 52.0 psf (ground snow); Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.1, Lu=50-0-0                                                                                                                                   |
| 3) Provide adequate drainage to prevent water ponding.                                                                                                                                                                                                                |
| 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.                                        |
| 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.                                                                                                                                                        |
| 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.                                                                     |
| 7) Refer to girder(s) for truss to truss connections.                                                                                                                                                                                                                 |
| 8) Provide on each side of truss a 2x4 connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint F.                                                                                                                              |

|            |       |            |     |     |                               |
|------------|-------|------------|-----|-----|-------------------------------|
| Job        | Truss | Truss Type | Qty | Ply | NM/RichardL@EZSIPSCorp./52GSL |
| J180100042 | B06   | HALF HIP   | 4   | 1   | Job Reference (optional)      |

8.130 s Oct 7 2017 MiTek Industries, Inc. Thu Jan 25 08:08:29 2018 Page 1  
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Scale = 1:38.3

|                      |                      |             |                           |               |             |
|----------------------|----------------------|-------------|---------------------------|---------------|-------------|
| <b>LOADING (psf)</b> | <b>SPACING-</b>      | <b>CSI.</b> | <b>DEFL.</b>              | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 40.0            | 2-0-0                | TC 0.19     | in (loc) l/defl L/d       | MT20          | 197/144     |
| (Ground Snow=52.0)   | Plate Grip DOL 1.15  | BC 0.30     | Vert(LL) -0.02 H >999 240 |               |             |
| TCDL 7.0             | Lumber DOL 1.15      | WB 0.27     | Vert(CT) -0.02 H >999 180 |               |             |
| BCLL 0.0 *           | Rep Stress Incr YES  | Matrix-S    | Horz(CT) -0.00 F n/a n/a  |               |             |
| BCDL 8.0             | Code IBC2015/TPI2014 |             |                           | Weight: 33 lb | FT = 20%    |

|                            |                                                                                  |
|----------------------------|----------------------------------------------------------------------------------|
| <b>LUMBER-</b>             | <b>BRACING-</b>                                                                  |
| TOP CHORD 2x4 SPF No.2     | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except |
| BOT CHORD 2x4 SPF No.2     | 2-0-0 oc purlins: C-E.                                                           |
| WEBS 2x3 SPF No.2 *Except* | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                   |
| W4: 2x4 SPF No.2           |                                                                                  |

|                                                           |
|-----------------------------------------------------------|
| <b>REACTIONS.</b> (lb/size) F=243/Mechanical, I=418/0-5-8 |
| Max Horz I=167(LC 8)                                      |
| Max Uplift F=-108(LC 8)                                   |

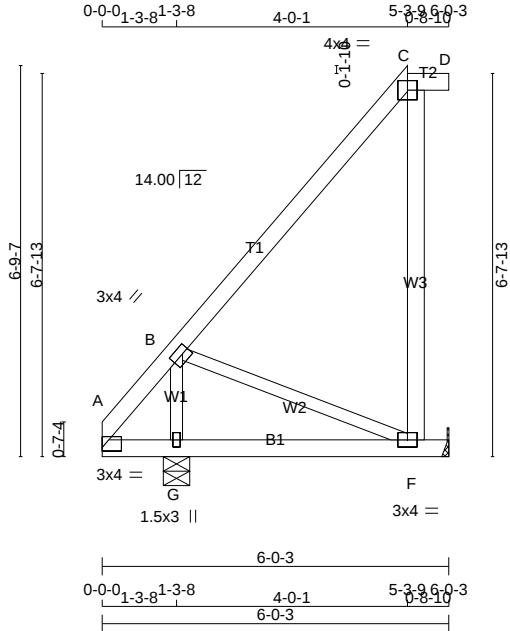
|                                                                                             |
|---------------------------------------------------------------------------------------------|
| <b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
| WEBS B-I=-311/129, C-G=-362/350                                                             |

|                                                                         |
|-------------------------------------------------------------------------|
| <b>JOINT STRESS INDEX</b>                                               |
| A = 0.17, B = 0.30, C = 0.52, D = 0.07, G = 0.33, H = 0.29 and I = 0.24 |

|                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NOTES-</b>                                                                                                                                                                                                                                                         |
| 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 |
| 2) TCLL: ASCE 7-10; Pg= 52.0 psf (ground snow); Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.1, Lu=50-0-0                                                                                                                                   |
| 3) Provide adequate drainage to prevent water ponding.                                                                                                                                                                                                                |
| 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.                                        |
| 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.                                                                                                                                                        |
| 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.                                                                     |
| 7) Refer to girder(s) for truss to truss connections.                                                                                                                                                                                                                 |
| 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint F.                                                                                                                                              |
| 9) This truss is designed in accordance with the 2015 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.                                                                                                                                  |

|            |       |            |     |     |                               |
|------------|-------|------------|-----|-----|-------------------------------|
| Job        | Truss | Truss Type | Qty | Ply | NM/RichardL@E2SIPSCorp./52GSL |
| J180100042 | B07   | HALF HIP   | 4   | 1   | Job Reference (optional)      |

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|                                       |
|---------------------------------------|
| Plate Offsets (X,Y)-- [B:0-1-8,0-1-8] |
|---------------------------------------|

|                      |                      |             |                             |               |             |
|----------------------|----------------------|-------------|-----------------------------|---------------|-------------|
| <b>LOADING</b> (psf) | <b>SPACING-</b>      | <b>CSI.</b> | <b>DEFL.</b>                | <b>PLATES</b> | <b>GRIP</b> |
| TCLL 40.0            | 2-0-0                | TC 0.26     | in (loc) l/defl L/d         | MT20          | 197/144     |
| (Ground Snow=52.0)   | Plate Grip DOL 1.15  | BC 0.28     | Vert(LL) 0.03 F-G >999 240  |               |             |
| TCDL 7.0             | Lumber DOL 1.15      | WB 0.16     | Vert(CT) -0.04 F-G >999 180 |               |             |
| BCLL 0.0 *           | Rep Stress Incr YES  | Matrix-P    | Horz(CT) -0.00 E n/a n/a    |               |             |
| BCDL 8.0             | Code IBC2015/TPI2014 |             |                             | Weight: 29 lb | FT = 20%    |

|                            |                                                                                  |
|----------------------------|----------------------------------------------------------------------------------|
| <b>LUMBER-</b>             | <b>BRACING-</b>                                                                  |
| TOP CHORD 2x4 SPF No.2     | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except |
| BOT CHORD 2x4 SPF No.2     | 2-0-0 oc purlins: C-D.                                                           |
| WEBS 2x3 SPF No.2 *Except* | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.                   |
| W3: 2x4 SPF No.2           |                                                                                  |

**REACTIONS.** (lb/size) E=243/Mechanical, G=418/0-5-8  
Max Horz G=193(LC 8)  
Max UpliftE=-148(LC 8)  
Max GravE=247(LC 15), G=418(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS B-G=-284/8

**JOINT STRESS INDEX**  
A = 0.69, B = 0.20, C = 0.36, F = 0.18 and G = 0.22

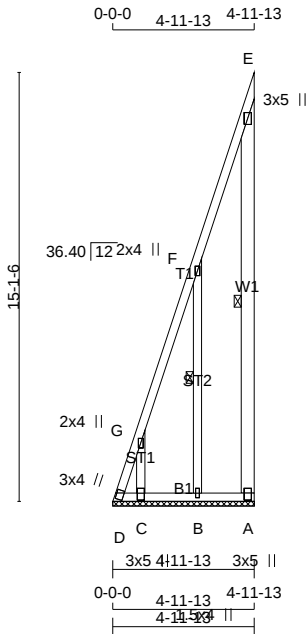
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
  - 2) TCLL: ASCE 7-10; Pg= 52.0 psf (ground snow); Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.1, Lu=50-0-0
  - 3) Provide adequate drainage to prevent water ponding.
  - 4) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

|            |        |            |     |     |                               |
|------------|--------|------------|-----|-----|-------------------------------|
| Job        | Truss  | Truss Type | Qty | Ply | NM/RichardL@EZSIPSCorp./52GSL |
| J180100042 | HGAB01 | GABLE      | 4   | 1   | Job Reference (optional)      |

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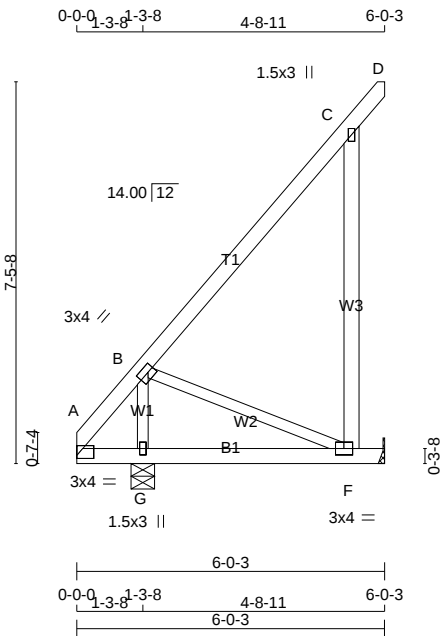


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                |  |                                                          |                                                                                                                                                                                                                        |                                                                                                                  |  |  |  |                                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|--|--|--|------------------------------------------------------------------|--|
| Plate Offsets (X,Y)-- [A:0-3-0,0-1-8], [C:0-3-0,0-1-8], [D:0-1-13,Edge]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                                                                                                |  |                                                          |                                                                                                                                                                                                                        |                                                                                                                  |  |  |  |                                                                  |  |
| <b>LOADING</b> (psf)<br>TCLL 40.0<br>(Ground Snow=52.0)<br>TCDL 7.0<br>BCLL 0.0 *<br>BCDL 8.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  | <b>SPACING-</b> 2-0-0<br>Plate Grip DOL 1.15<br>Lumber DOL 1.15<br>Rep Stress Incr YES<br>Code IBC2015/TPI2014 |  | <b>CSI.</b><br>TC 0.63<br>BC 0.03<br>WB 0.14<br>Matrix-P |                                                                                                                                                                                                                        | <b>DEFL.</b> in (loc) l/defl L/d<br>Vert(LL) n/a - n/a 999<br>Vert(CT) n/a - n/a 999<br>Horz(CT) -0.00 A n/a n/a |  |  |  | <b>PLATES GRIP</b><br>MT20 197/144<br><br>Weight: 60 lb FT = 20% |  |
| <b>LUMBER-</b><br>TOP CHORD 2x4 SPF No.2<br>BOT CHORD 2x4 SPF No.2<br>WEBS 2x6 SPF No.2<br>OTHERS 2x4 SPF No.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                |  |                                                          | <b>BRACING-</b><br>TOP CHORD Structural wood sheathing directly applied or 4-11-13 oc purlins, except end verticals.<br>BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.<br>WEBS 1 Row at midpt A-E, B-F |                                                                                                                  |  |  |  |                                                                  |  |
| <b>REACTIONS.</b> All bearings 4-11-13.<br>(lb) - Max Horz D=398(LC 5)<br>Max Uplift All uplift 100 lb or less at joint(s) except D=-846(LC 6), A=-473(LC 7), B=-615(LC 8), C=-486(LC 8)<br>Max Grav All reactions 250 lb or less at joint(s) except D=938(LC 8), A=403(LC 4), B=470(LC 15), C=363(LC 15)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                                                                                                                |  |                                                          |                                                                                                                                                                                                                        |                                                                                                                  |  |  |  |                                                                  |  |
| <b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.<br>TOP CHORD D-G=-988/904, F-G=-731/637, E-F=-528/409, A-E=-396/483<br>WEBS B-F=-436/636, C-G=-337/501                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                                                                                                                |  |                                                          |                                                                                                                                                                                                                        |                                                                                                                  |  |  |  |                                                                  |  |
| <b>JOINT STRESS INDEX</b><br>A = 0.18, B = 0.64, C = 0.19, D = 0.55, E = 0.17, F = 0.33 and G = 0.26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                |  |                                                          |                                                                                                                                                                                                                        |                                                                                                                  |  |  |  |                                                                  |  |
| <b>NOTES-</b><br>1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33<br>2) TCLL: ASCE 7-10; Pg= 52.0 psf (ground snow); Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.1<br>3) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.<br>4) Gable requires continuous bottom chord bearing.<br>5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.<br>6) This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members. |  |                                                                                                                |  |                                                          |                                                                                                                                                                                                                        |                                                                                                                  |  |  |  |                                                                  |  |

|            |       |              |     |     |                               |
|------------|-------|--------------|-----|-----|-------------------------------|
| Job        | Truss | Truss Type   | Qty | Ply | NM/RichardL@EVSIPSCorp./52GSL |
| J180100042 | M01   | JACK-PARTIAL | 2   | 1   | Job Reference (optional)      |

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Scale = 1:45.0



|                                                                                                                                                                                                                                                                       |       |                 |                      |             |                                                                           |              |          |                    |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------------|----------------------|-------------|---------------------------------------------------------------------------|--------------|----------|--------------------|----------|
| Plate Offsets (X,Y)-- [B:0-1-8,0-1-8]                                                                                                                                                                                                                                 |       |                 |                      |             |                                                                           |              |          |                    |          |
| <b>LOADING</b> (psf)                                                                                                                                                                                                                                                  |       | <b>SPACING-</b> |                      | <b>CSI.</b> |                                                                           | <b>DEFL.</b> |          | <b>PLATES GRIP</b> |          |
| TCLL                                                                                                                                                                                                                                                                  | 40.0  | 2-0-0           | Plate Grip DOL       | 1.15        | TC                                                                        | 0.28         | in (loc) | I/defl             | L/d      |
| (Ground Snow=52.0)                                                                                                                                                                                                                                                    |       |                 | Lumber DOL           | 1.15        | BC                                                                        | 0.31         | Vert(LL) | 0.04 F-G           | >999 240 |
| TCDL                                                                                                                                                                                                                                                                  | 7.0   |                 | Rep Stress Incr      | YES         | WB                                                                        | 0.16         | Vert(CT) | -0.04 F-G          | >999 180 |
| BCLL                                                                                                                                                                                                                                                                  | 0.0 * |                 | Code IBC2015/TPI2014 |             | Matrix-P                                                                  |              | Horz(CT) | -0.00 E            | n/a n/a  |
| BCDL                                                                                                                                                                                                                                                                  | 8.0   |                 |                      |             |                                                                           |              |          |                    |          |
| Weight: 29 lb FT = 20%                                                                                                                                                                                                                                                |       |                 |                      |             |                                                                           |              |          |                    |          |
| <b>LUMBER-</b>                                                                                                                                                                                                                                                        |       |                 |                      |             | <b>BRACING-</b>                                                           |              |          |                    |          |
| TOP CHORD 2x4 SPF No.2                                                                                                                                                                                                                                                |       |                 |                      |             | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |              |          |                    |          |
| BOT CHORD 2x4 SPF No.2                                                                                                                                                                                                                                                |       |                 |                      |             | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.            |              |          |                    |          |
| WEBS 2x3 SPF No.2 *Except*                                                                                                                                                                                                                                            |       |                 |                      |             |                                                                           |              |          |                    |          |
| W3: 2x4 SPF No.2                                                                                                                                                                                                                                                      |       |                 |                      |             |                                                                           |              |          |                    |          |
| <b>REACTIONS.</b> (lb/size) E=236/Mechanical, G=418/0-5-8                                                                                                                                                                                                             |       |                 |                      |             |                                                                           |              |          |                    |          |
| Max Horz G=214(LC 8)                                                                                                                                                                                                                                                  |       |                 |                      |             |                                                                           |              |          |                    |          |
| Max UpliftE=-186(LC 8)                                                                                                                                                                                                                                                |       |                 |                      |             |                                                                           |              |          |                    |          |
| Max GravE=258(LC 15), G=418(LC 1)                                                                                                                                                                                                                                     |       |                 |                      |             |                                                                           |              |          |                    |          |
| <b>FORCES.</b> (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.                                                                                                                                                                           |       |                 |                      |             |                                                                           |              |          |                    |          |
| WEBS B-G=-277/33, B-F=-153/269                                                                                                                                                                                                                                        |       |                 |                      |             |                                                                           |              |          |                    |          |
| <b>JOINT STRESS INDEX</b>                                                                                                                                                                                                                                             |       |                 |                      |             |                                                                           |              |          |                    |          |
| A = 0.16, B = 0.23, C = 0.20, F = 0.20 and G = 0.20                                                                                                                                                                                                                   |       |                 |                      |             |                                                                           |              |          |                    |          |
| <b>NOTES-</b>                                                                                                                                                                                                                                                         |       |                 |                      |             |                                                                           |              |          |                    |          |
| 1) Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=4.2psf; BCDL=4.8psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33 |       |                 |                      |             |                                                                           |              |          |                    |          |
| 2) TCLL: ASCE 7-10; Pg= 52.0 psf (ground snow); Pf=40.0 psf (flat roof snow); Category II; Exp B; Partially Exp.; Ct=1.1                                                                                                                                              |       |                 |                      |             |                                                                           |              |          |                    |          |
| 3) As requested, plates have not been designed to provide for placement tolerances or rough handling and erection conditions. It is the responsibility of the fabricator to increase plate sizes to account for these factors.                                        |       |                 |                      |             |                                                                           |              |          |                    |          |
| 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.                                                                                                                                                        |       |                 |                      |             |                                                                           |              |          |                    |          |
| 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.                                                                     |       |                 |                      |             |                                                                           |              |          |                    |          |
| 6) Refer to girder(s) for truss to truss connections.                                                                                                                                                                                                                 |       |                 |                      |             |                                                                           |              |          |                    |          |
| 7) Provide on gable end connection (by others) of truss to bearing plate capable of withstanding 186 lb uplift at joint E.                                                                                                                                            |       |                 |                      |             |                                                                           |              |          |                    |          |

