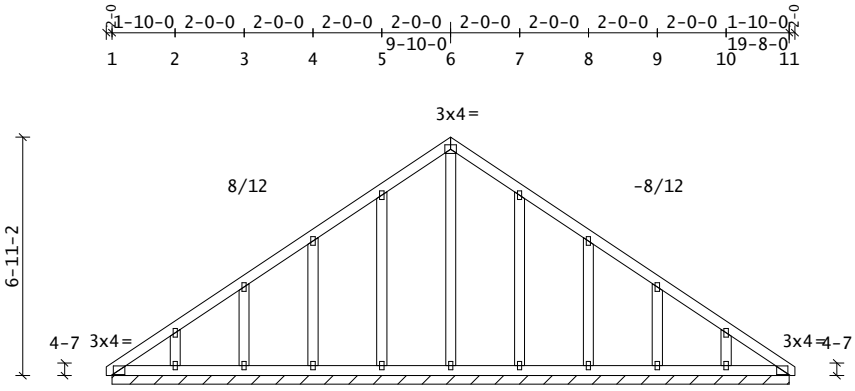
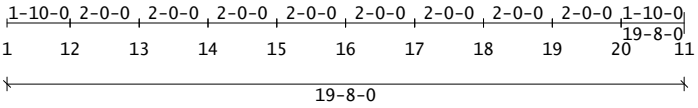
RB23075_RP - 20x49 WY project | **Qty: 1** | **Truss: T01**

Customer: EZ SIPS Corporation

SID:
TID: RB23075_RP
Date: 05 / 03 / 24
Page: 1 of 1



Typical plate: 1.5x3



Truss Weight = 86.7 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   30.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.25  1.60  1.15
Total      50.0  Plt 1.25  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Ground Snow(Pg) =  30.0 psf
Risk Cat: II  Terrain Cat: C
Roof Exposure: Sheltered
Thermal Condition: All Others(1.0)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      No
Rain Surcharge: No Ice Dam Chk: No
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 115 mph
Risk Cat: II  Exposure Cat: C
Bldg Dims: L =  49.0 ft  B =  20.0 ft
M.R.H(h) =  15.0 ft  Kzt = 1.0
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 3-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   4 -  5   0.08
Max CSI in BC PANEL   1 - 12   0.04
Max CSI in Web       16 -  6   0.12

...Mem...   Ten    Comp     .CSI.
TC   1- 6    97      78     0.08
     6-11    97      78     0.08
BC   1-11   115      43     0.04
Web  2-12   106     214     0.02
     3-13    89     224     0.03
     4-14    89     222     0.06
     5-15    83     226     0.11
     6-16    19     158     0.12
     7-17    83     226     0.11
     8-18    89     222     0.06
     9-19    89     224     0.03
    10-20   106     214     0.02
```

Reaction Summary

```
Reactions not shown: down < 400 and up < 150
---- Reaction Summary (plf) -----
Jnt-Jnt       React -Up- --Width-
  1- 11         101    3 19-08-00
Max Horiz =   -132 /   +132 at Joint  16
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [9-10-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0".
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240   L/999(-0.00) 19-20
Vert DL   L/120   L/999(-0.00) 12-13
Vert CR   L/180   L/999(-0.00) 12-13
Horz LL   0.75in       ( 0.00) @Jt 1
Horz CR   1.25in       ( 0.00) @Jt 1
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

NOTICE A copy of this design shall be furnished to the erection contractor. The design of this individual truss is based on design criteria and requirements supplied by the Truss Manufacturer and relies upon the accuracy and completeness of the information set forth by the Building Designer. A seal on this drawing indicates acceptance of professional engineering responsibility solely for the truss component design shown. See the cover page and the "Important Information & General Notes" page for additional information. All connector plates shall be manufactured by Simpson Strong-Tie Company, Inc in accordance with ESR-2762. All connector plates are 20 gauge, unless the specified plate size is followed by a "-18" which indicates an 18 gauge plate, or "S# 18", which indicates a high tension 18 gauge plate.

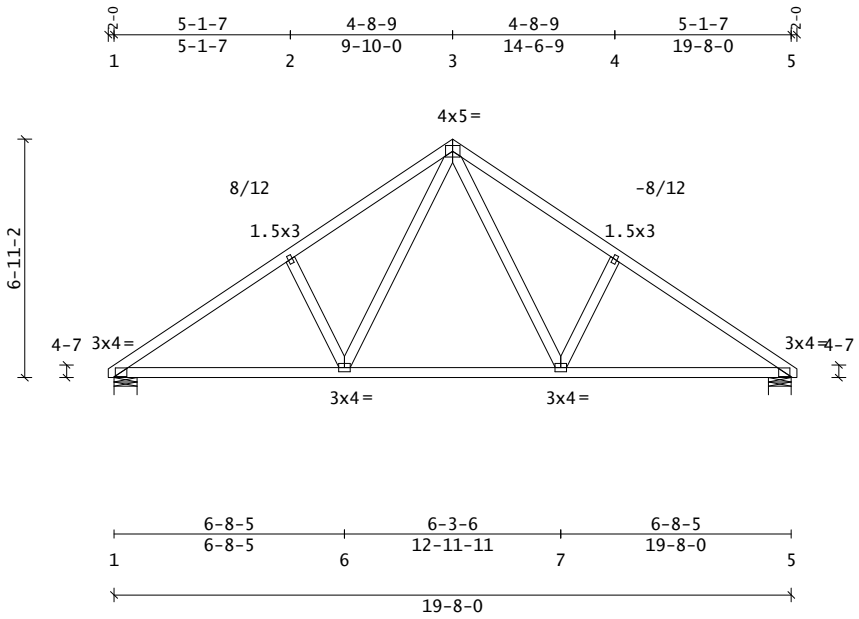
Component Solutions
Truss Studio V
2023.11.0.70

EngDrwg: 2021r5RGT

RB23075_RP - 20x49 WY project | **Qty: 7** | **Truss: T02**

Customer: EZ SIPS Corporation

SID:
TID: RB23075_RP
Date: 05 / 03 / 24
Page: 1 of 1



Truss Weight = 73.8 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   30.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.25  1.60  1.15
Total      50.0  Plt 1.25  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Ground Snow(Pg) =  30.0 psf
Risk Cat: II  Terrain Cat: C
Roof Exposure: Sheltered
Thermal Condition: All Others(1.0)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      No
Rain Surcharge: No Ice Dam Chk: No
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 115 mph
Risk Cat: II  Exposure Cat: C
Bldg Dims: L =  49.0 ft  B =  20.0 ft
M.R.H(h) =  15.0 ft  Kzt = 1.0
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 3-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   2 -  3   0.36
Max CSI in BC PANEL   1 -  6   0.48
Max CSI in Web        6 -  3   0.11

...Mem...    Ten     Comp     .CSI.
TC  OH- 1     13        0     0.00
     1- 2    242     1374     0.34
     2- 3    300     1213     0.36
     3- 4    300     1213     0.36
     4- 5    242     1374     0.34
     5-OH     13        0     0.00
BC   1- 6   1061      126     0.48
     5- 7   1061      119     0.48
     6- 7    702        0     0.42
Web  2- 6    195      348     0.09
     3- 6    497      114     0.11
     3- 7    497      114     0.11
     4- 7    195      348     0.09
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
  1     02-07   996   38    08-00 01-09    SPF  425
  5  19-05-09   996   38    08-00 01-09    SPF  425
Max Horiz =   -132 /   +132 at Joint   1
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [9-10-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240   L/999(-0.09)  6- 7
Vert DL   L/120   L/999(-0.05)  6- 7
Vert CR   L/180   L/999(-0.14)  6- 7
Horz LL   0.75in       ( 0.02) @Jt 5
Horz CR   1.25in       ( 0.03) @Jt 5
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)

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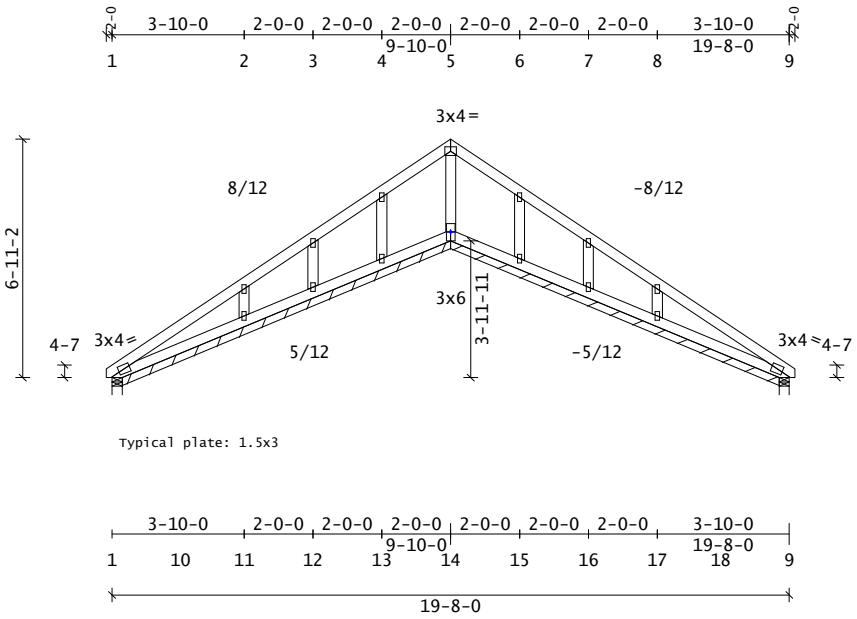
Component Solutions
Truss Studio V
2023.11.0.70

EngDrwg: 2021r5RGT

RB23075_RP - 20x49 WY project | **Qty: 1** | **Truss: T03**

Customer: EZ SIPS Corporation

SID:
TID: RB23075_RP
Date: 05 / 03 / 24
Page: 1 of 1



Typical plate: 1.5x3

Truss Weight = 66.8 lb

Code/Design: IBC-2021/TPI-2014
PSF Live Dead Dur Factors
TC 30.0 10.0 Live Wind Snow
BC 0.0 10.0 Lum 1.25 1.60 1.15
Total 50.0 Plt 1.25 1.60 1.15
Spacing: 2-00-00 o.c. Plies: 1
Repetitive Member Increase: Yes
Green Lumber: No Wet Service: No
Fab Tolerance: 20% Creep (Kcr) = 2.0
OH Soffit Load: 2.0 psf

----------Snow Load Specs----------
ASCE7-16 Ground Snow(Pg) = 30.0 psf
Risk Cat: II Terrain Cat: C
Roof Exposure: Sheltered
Thermal Condition: All Others(1.0)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin): No
Unbalanced Snow Loads: No
Rain Surcharge: No Ice Dam Chk: No

----------Wind Load Specs----------
ASCE7-16 Wind Speed(V) = 115 mph
Risk Cat: II Exposure Cat: C
Bldg Dims: L = 49.0 ft B = 20.0 ft
M.R.H(h) = 15.0 ft Kzt = 1.0
Bldg Enclosure: Enclosed
Wind DL(psf): TC = 6.0 BC = 6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 3-00-00

-------Additional Design Checks------
10 psf Non-Concurrent BCLL: Yes
20 psf BC Limited Storage: Yes
200 lb BC Accessible Ceiling: Yes
300 lb TC Maintenance Load: Yes
2000 lb TC Safe Load: No
Unbalanced TCLL: Yes

Material Summary

TC 2x4 SPF #1/#2
BC 2x4 SPF #1/#2
Webs 2x4 SPF #1/#2

Member Forces Summary

Max CSI in TC PANEL 1 - 2 0.16
Max CSI in BC PANEL 1 - 10 0.14
Max CSI in Web 11 - 2 0.03

...Mem...	Ten	Comp	.CSI.
TC 1- 5	61	121	0.16
5- 9	61	121	0.16
BC 1-14	96	40	0.14
9-14	96	40	0.14
Web 2-11	147	268	0.03
3-12	72	218	0.02
4-13	89	231	0.03
5-14	46	168	0.02
6-15	89	231	0.03
7-16	72	218	0.02
8-17	147	268	0.03

Reaction Summary

----------Reaction Summary(Lbs)----------

Jnt	--X-Loc-	React	-Up-	--Width-	-Reqd	-Mat	PSI
1	01-12	196	6	03-08	01-08	SPF	425
9	19-06-04	196	6	03-08	01-08	SPF	425

Reactions not shown: down < 400 and up < 150

---- Reaction Summary (plf) -----

Jnt-Jnt	React	-Up-	--Width-
1- 14	96	0	9-06-08
14- 9	80	12	9-06-08

Max Horiz = -133 / +133 at Joint 14

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [9-10-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.

Notes

If this truss is exposed to wind load perpendicular to the plane of the truss, gable studs must be braced according to the Construction Documents, BCSI-B3, or a gable stud bracing detail matching the design wind speed shown. Lateral bracing of the truss itself to resist out-of-plane wind load must be in accordance with the Construction Documents.
The maximum rake overhang length is 12.0".
Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

TrussSpan	Limit	Actual(in)	Location
Vert LL	L/240	L/999(-0.00)	18- 9
Vert DL	L/120	L/999(-0.00)	18- 9
Vert CR	L/180	L/999(-0.01)	18- 9
Horz LL	0.75in	(0.00)	@Jt 9
Horz CR	1.25in	(0.01)	@Jt 9

Bracing Data Summary

----------Bracing Data----------
Chords; continuous except where shown
Web Bracing -- None

Plate offsets (X, Y):

(None unless indicated below)
Jnt14(0,-00-01)

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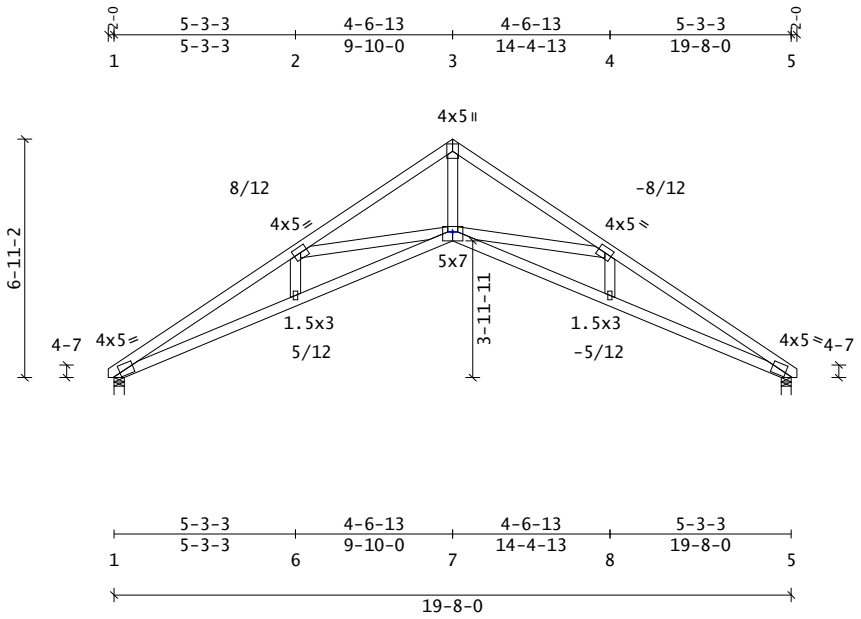
Component Solutions
Truss Studio V
2023.11.0.70

EngDrwg: 2021r5RGT

RB23075_RP - 20x49 WY project | **Qty: 17** | **Truss: T04**

Customer: EZ SIPS Corporation

SID:
TID: RB23075_RP
Date: 05 / 03 / 24
Page: 1 of 1



Truss Weight = 72.7 lb

```
Code/Design: IBC-2021/TPI-2014
PSF  Live  Dead        Dur Factors
TC   30.0  10.0      Live  Wind  Snow
BC    0.0  10.0  Lum 1.25  1.60  1.15
Total      50.0  Plt 1.25  1.60  1.15
Spacing:  2-00-00 o.c.    Plies: 1
Repetitive Member Increase: Yes
Green Lumber:  No  Wet Service:  No
Fab Tolerance:  20% Creep (Kcr) = 2.0
OH Soffit Load:  2.0 psf
```

```
----------Snow Load Specs----------
ASCE7-16 Ground Snow(Pg) =  30.0 psf
Risk Cat: II  Terrain Cat: C
Roof Exposure: Sheltered
Thermal Condition: All Others(1.0)
Unobstructed Slippery Roof: No
Low-Slope Minimums(Pfmin):  No
Unbalanced Snow Loads:      No
Rain Surcharge: No Ice Dam Chk: No
```

```
----------Wind Load Specs----------
ASCE7-16  Wind Speed(V) = 115 mph
Risk Cat: II  Exposure Cat: C
Bldg Dims: L =  49.0 ft  B =  20.0 ft
M.R.H(h) =  15.0 ft  Kzt = 1.0
Bldg Enclosure: Enclosed
Wind DL(psf): TC =  6.0 BC =  6.0
End Vertical Exposed: L = Yes R = Yes
Wind Uplift Reporting: ASCE7 MWFRS
C&C End Zone: 3-00-00
```

```
-------Additional Design Checks------
10 psf Non-Concurrent BCLL:       Yes
20 psf BC Limited Storage:        Yes
200 lb BC Accessible Ceiling:     Yes
300 lb TC Maintenance Load:       Yes
2000 lb TC Safe Load:             No
Unbalanced TCLL:                  Yes
```

Material Summary

```
TC      2x4   SPF  #1/#2
BC      2x4   SPF  #1/#2
Webs    2x4   SPF  #1/#2
```

Member Forces Summary

```
Max CSI in TC PANEL   1 -  2   0.45
Max CSI in BC PANEL   1 -  6   0.75
Max CSI in Web        7 -  3   0.46

...Mem...    Ten     Comp     .CSI.
TC  OH- 1     11        0     0.00
     1- 2    420     3079     0.45
     2- 3    208     2285     0.44
     3- 4    207     2285     0.44
     4- 5    403     3079     0.45
     5-OH     11        0     0.00
BC   1- 6   2668      301     0.75
     5- 8   2668      282     0.75
     6- 7   2692      302     0.73
     7- 8   2692      284     0.73
Web  2- 6    202        0     0.04
     2- 7    307      721     0.27
     3- 7   2042      102     0.46
     4- 7    310      721     0.27
     4- 8    202        0     0.04
```

Reaction Summary

```
--------------Reaction Summary(Lbs)----------------
Jnt  --X-Loc- React -Up- --Width- -Reqd   -Mat  PSI
  1     01-12   997   38    03-08 01-09    SPF  425
  5  19-06-04   997   38    03-08 01-09    SPF  425
Max Horiz =   -133 /   +133 at Joint   1
```

Loads Summary

This truss has been designed for the effects of an unbalanced top chord live load occurring at [9-10-00] using a 1.00 Full and 0.00 Reduced load factor.

See Loadcase Report for load combinations and additional details.

Notes

Plates designed for Cq at 0.80 and Rotational Tolerance of 10.0 degrees.
Plates located at TC pitch breaks meet the prescriptive minimum size requirement to transfer unblocked diaphragm loads across those joints.
Lumber and plating have been applied symmetrically.

Deflection Summary

```
TrussSpan Limit  Actual(in)   Location
Vert LL   L/240   L/820(-0.28)  6- 7
Vert DL   L/120   L/999(-0.20)  6- 7
Vert CR   L/180   L/481(-0.48)  6- 7
Horz LL   0.75in       ( 0.30) @Jt 5
Horz CR   1.25in       ( 0.50) @Jt 5
```

Bracing Data Summary

```
------------Bracing Data------------
Chords; continuous except where shown
Web Bracing -- None
```

Plate offsets (X, Y):

(None unless indicated below)
Jnt7(0,-00-09)

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Component Solutions
Truss Studio V
2023.11.0.70

EngDrwg: 2021r5RGT