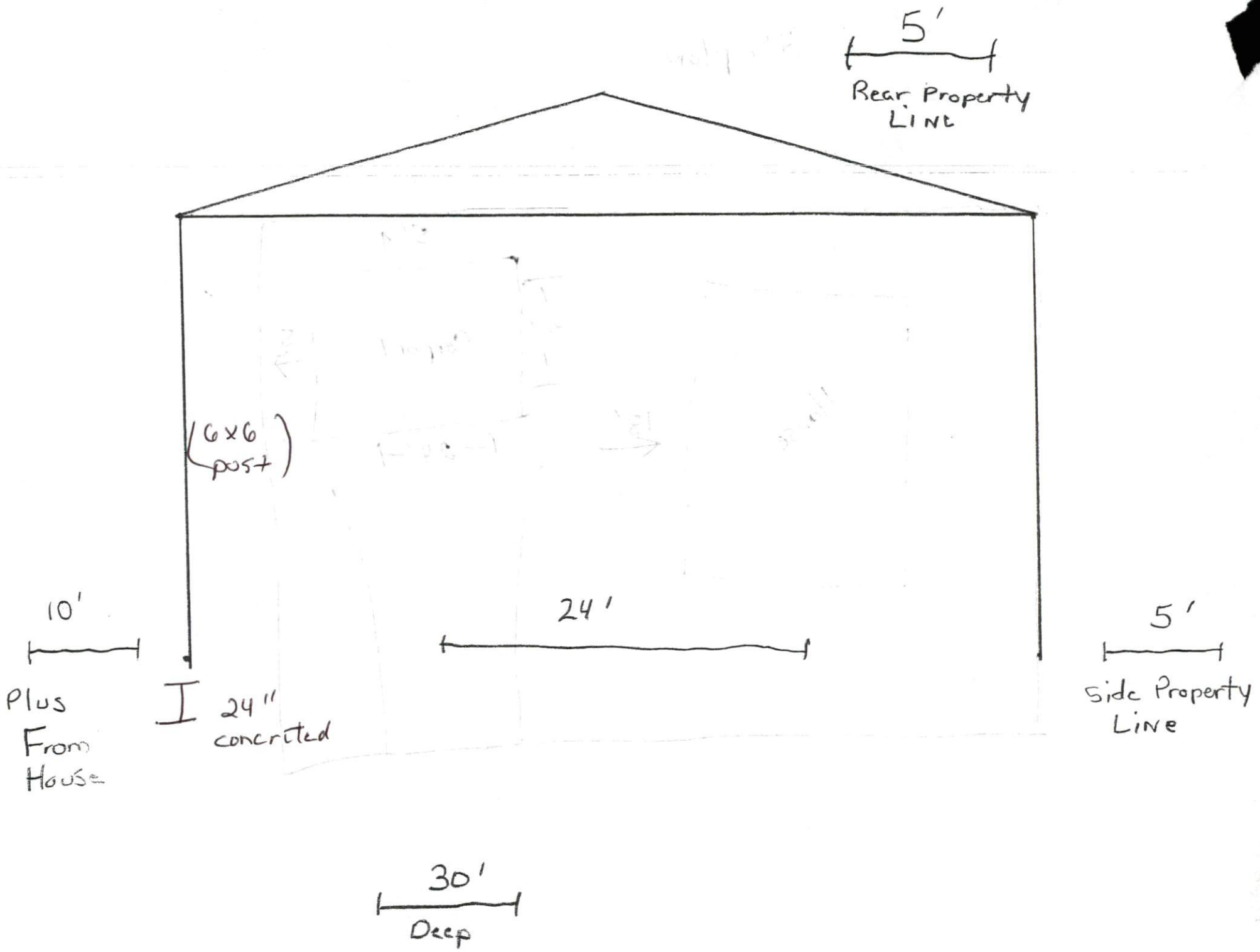
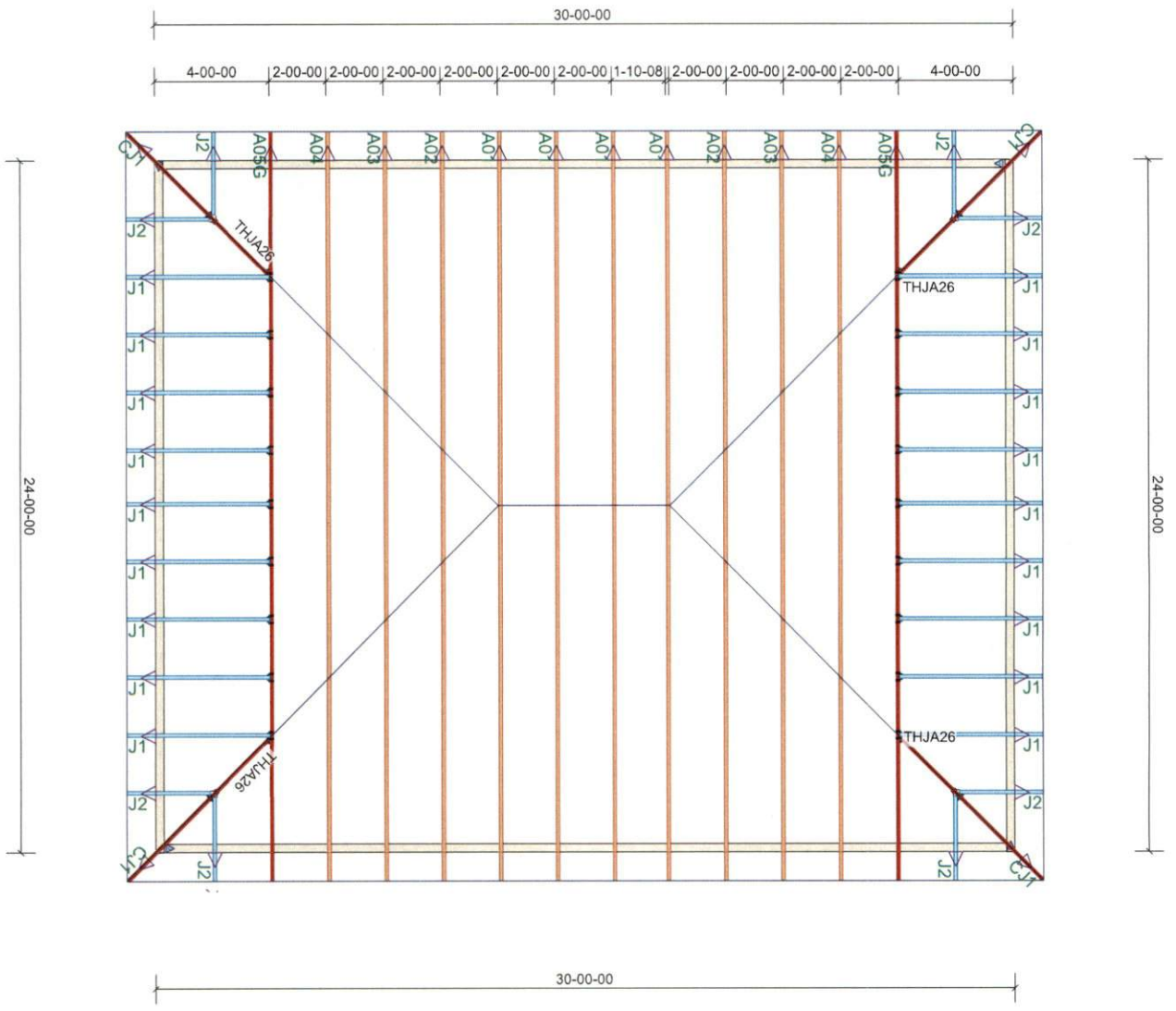


Sitz plan






| | |
|--|-----------|
| Location | 2383-Dunn |
| Designer | RE |
| Sheet # | 1 of 1 |
| Roof Truss Placement Plan NOT TO SCALE DESIGNED DATE 12/7/2023 | |

2383- Dunn
LARRY WOOD CARPORT

LEE WOOD CARPORT

 Job# - 2301806



84 Components
 200 Emmett Rd
 Dunn NC 28334
 United States
 Office: 770-787-8715

DO NOT CUT, NOTCH, OR BORE HOLES
 UNLESS SPECIFICALLY NOTED OTHERWISE BY
 ANOTHER DIMENSION OR SPECIFICATION IN
 THIS DRAWING.

TRUSS INSTALLATION REQUIRES TEMPORARY AND
 PERMANENT BRACING. IN BRCA DOCUMENTS
 B1 and B1.1, THERE IS A CHECK FOR EACH CASE IN
 THE TRUSS MODEL.

| | | | | | |
|----------------------|--------------|----------------------|----------|----------|--|
| Job 2301806-07081 | Truss A01 | Truss Type Common | Qty 4 | Ply 1 | LARRY WOOD CARPORT Job Reference (optional) |
|----------------------|--------------|----------------------|----------|----------|--|

84 Components, Dunn, NC 28334

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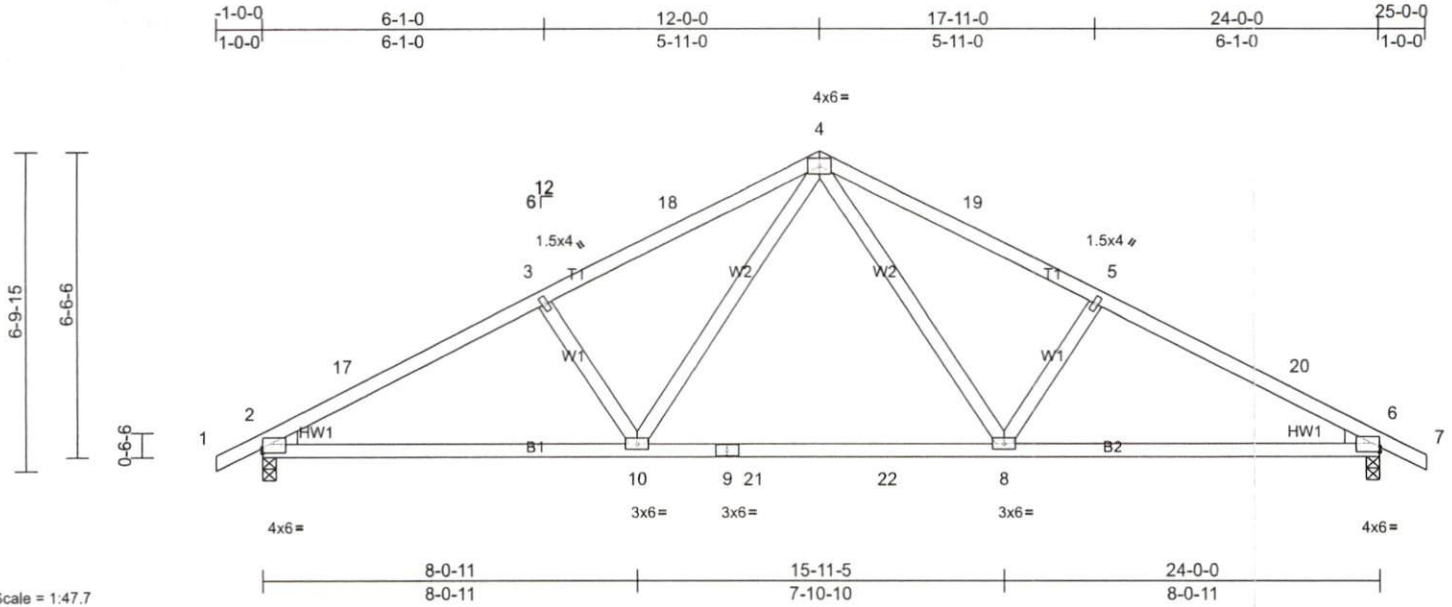


Plate Offsets (X, Y): [2:Edge,0-1-4], [6:Edge,0-1-4]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.44 | Vert(LL) | -0.17 | 8-10 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.64 | Vert(CT) | -0.28 | 8-10 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.05 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | Weight: 113 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except* W1:2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-3-6 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 2 and 134 lb uplift at joint 6.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=1020/0-3-8, (min. 0-1-8),
 6=1020/0-3-8, (min. 0-1-8)
 Max Horiz 2=109 (LC 12)
 Max Uplift 2=-134 (LC 12), 6=-134 (LC 13)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-17=-1619/184, 3-17=-1478/212,
 3-18=-1429/214, 4-18=-1343/230,
 4-19=-1343/230, 5-19=-1429/214,
 5-20=-1478/212, 6-20=-1619/184
 BOT CHORD 2-10=-203/1378, 9-10=-38/927,
 9-21=-38/927, 21-22=-38/927, 8-22=-38/927,
 6-8=-113/1378
 WEBS 4-8=-99/531, 5-8=-345/210, 4-10=-99/531,
 3-10=-345/210

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 12-0-0, Exterior (2) 12-0-0 to 15-0-0, Interior (1) 15-0-0 to 25-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

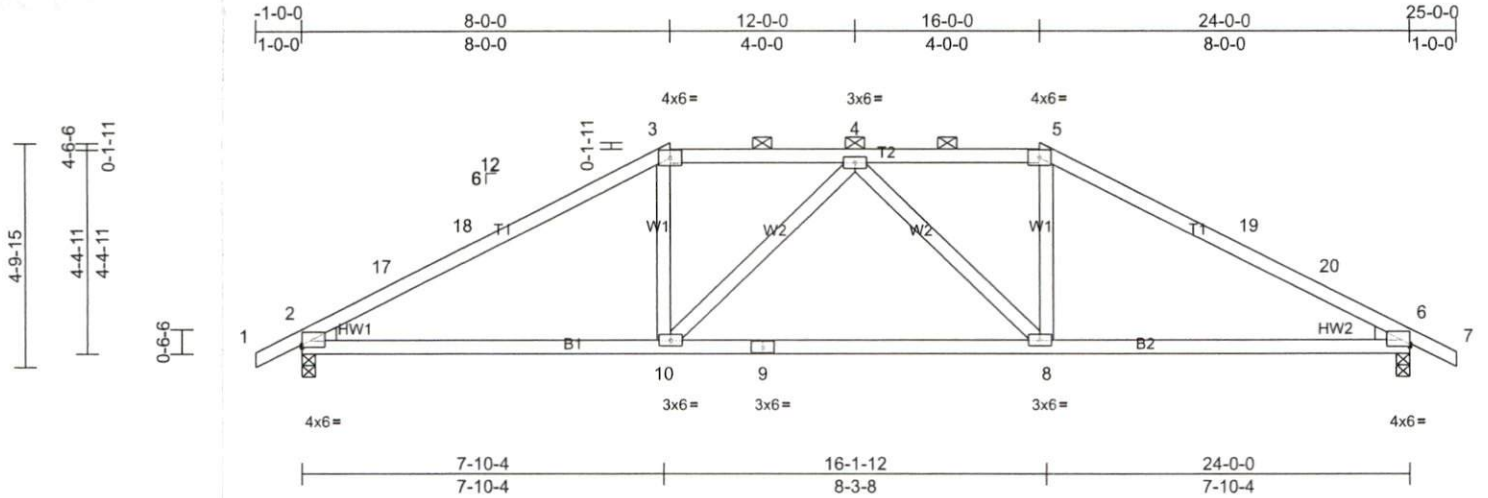
| | | | | | |
|----------------------|--------------|-------------------|----------|----------|--|
| Job 2301806-07081 | Truss A03 | Truss Type Hip | Qty 2 | Ply 1 | LARRY WOOD CARPORT Job Reference (optional) |
|----------------------|--------------|-------------------|----------|----------|--|

84 Components, Dunn, NC 28334

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Scale = 1:48.1

Plate Offsets (X, Y): [2:Edge,0-0-12], [6:Edge,0-0-12]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.94 | Vert(LL) | 0.10 | 10-13 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.67 | Vert(CT) | -0.19 | 8-10 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.19 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | |
| | | | | | | | | | | | Weight: 108 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (4-11-2 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 102 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=1020/0-3-8, (min. 0-1-8),
 6=1020/0-3-8, (min. 0-1-8)

Max Horiz 2=74 (LC 12)
 Max Uplift 2=-102 (LC 12), 6=-102 (LC 13)

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

TOP CHORD 2-17=-1552/204, 17-18=-1457/219,
 3-18=-1440/242, 3-4=-1283/273,
 4-5=-1283/273, 5-19=-1440/242,
 19-20=-1457/219, 6-20=-1552/204

BOT CHORD 2-10=-250/1292, 9-10=-139/1396,
 8-9=-139/1396, 6-8=-115/1292

WEBS 3-10=0/376, 5-8=0/376, 4-8=-278/123,
 4-10=-278/123

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
 Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 8-0-0, Exterior (2) 8-0-0 to 12-0-0, Interior (1) 12-0-0 to 16-0-0, Exterior (2) 16-0-0 to 20-2-15, Interior (1) 20-2-15 to 25-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

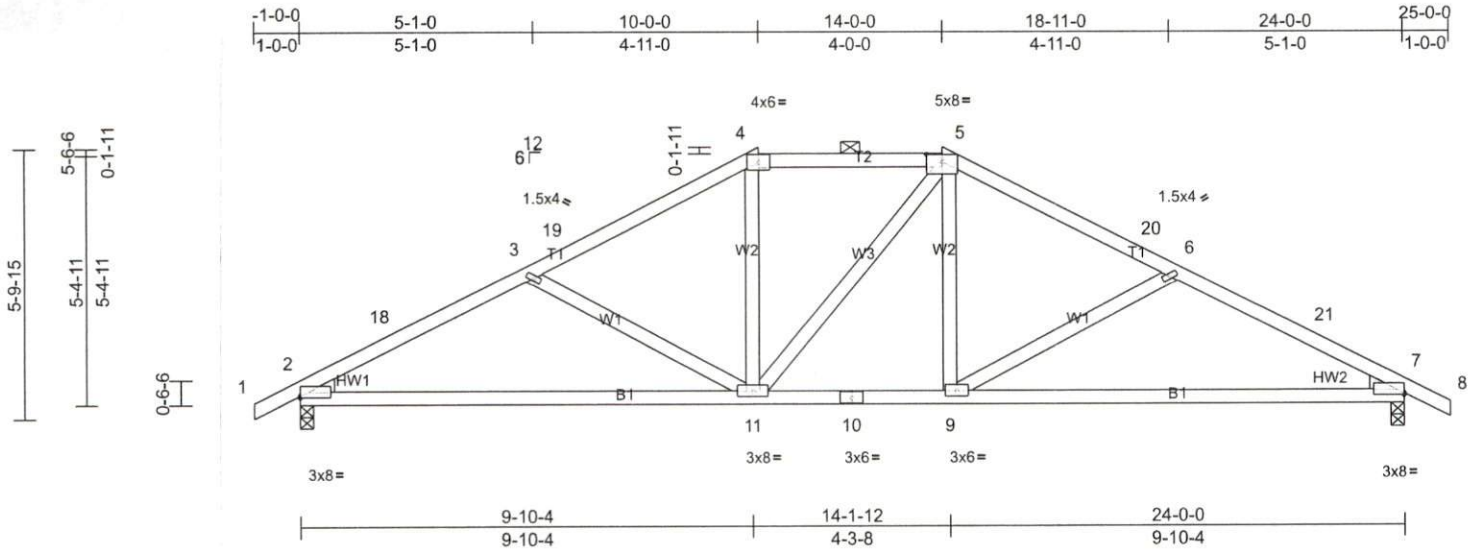
| | | | | | |
|----------------------|--------------|-------------------|----------|----------|--|
| Job 2301806-07081 | Truss A02 | Truss Type Hip | Qty 2 | Ply 1 | LARRY WOOD CARPORT Job Reference (optional) |
|----------------------|--------------|-------------------|----------|----------|--|

84 Components, Dunn, NC 28334

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Scale = 1:48.1

Plate Offsets (X, Y): [2:Edge,0-0-8], [5:0-4-0,0-1-15], [7:Edge,0-0-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.31 | Vert(LL) | -0.20 | 9-17 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.86 | Vert(LL) | -0.41 | 9-17 | >697 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.20 | Horz(CT) | 0.05 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | |
| | | | | | | | | | | | Weight: 120 lb | FT = 20% |

LUMBER
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except* W3:2x4 SP No.2
WEDGE Left: 2x4 SP No.3
Right: 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 4-5-12 oc purlins, except 2-0-0 oc purlins (5-5-2 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 120 lb uplift at joint 2 and 120 lb uplift at joint 7.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=-1020/0-3-8, (min. 0-1-8),
7=-1020/0-3-8, (min. 0-1-8)
Max Horiz 2=91 (LC 12)
Max Uplift 2=-120 (LC 12), 7=-120 (LC 13)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-18=-1623/275, 3-18=-1508/298,
3-19=-1314/214, 4-19=-1243/236,
4-5=-1110/253, 5-20=-1242/236,
6-20=-1313/214, 6-21=-1508/298,
7-21=-1623/275
BOT CHORD 2-11=-209/1395, 10-11=-65/1109,
9-10=-65/1109, 7-9=-199/1395
WEBS 3-11=-326/191, 4-11=0/341, 5-9=-9/341,
6-9=-327/191

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 10-0-0, Exterior (2) 10-0-0 to 18-2-15, Interior (1) 18-2-15 to 25-0-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.

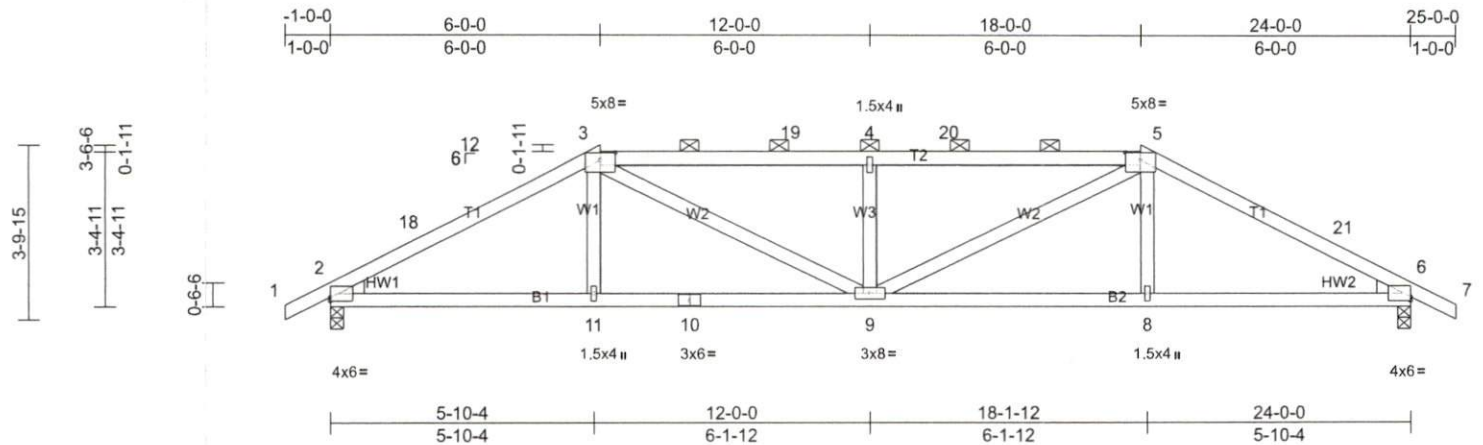
| | | | | | |
|----------------------|--------------|-------------------|----------|----------|--|
| Job 2301806-07081 | Truss A04 | Truss Type Hip | Qty 2 | Ply 1 | LARRY WOOD CARPORT Job Reference (optional) |
|----------------------|--------------|-------------------|----------|----------|--|

84 Components, Dunn, NC 28334

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Scale = 1:49.2

Plate Offsets (X, Y): [2:Edge,0-1-0], [3:0-4-0,0-1-15], [5:0-4-0,0-1-15], [6:Edge,0-1-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | I/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.52 | Vert(LL) | -0.09 | 9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.57 | Vert(CT) | -0.19 | 8-9 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.17 | Horz(CT) | 0.05 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | |
| | | | | | | | | | | | Weight: 111 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* W2:2x4 SP No.2
 WEDGE Left: 2x4 SP No.3
 Right: 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins, except 2-0-0 oc purlins (3-8-4 max.): 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 2 and 81 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

REACTIONS (lb/size) 2=1020/0-3-8, (min. 0-1-8),
 6=1020/0-3-8, (min. 0-1-8)

Max Horiz 2=57 (LC 12)
 Max Uplift 2=-81 (LC 12), 6=-81 (LC 13)

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

TOP CHORD 2-18=-1646/235, 3-18=-1559/256,
 3-19=-1934/334, 4-19=-1936/334,
 4-20=-1936/334, 5-20=-1934/334,
 5-21=-1559/258, 6-21=-1646/231

BOT CHORD 2-11=-147/1401, 10-11=-141/1396,
 9-10=-141/1396, 8-9=-150/1396,
 6-8=-148/1401

WEBS 3-9=-156/692, 4-9=-445/191, 5-9=-156/692

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 6-0-0, Exterior (2) 6-0-0 to 10-2-15, Interior (1) 10-2-15 to 18-0-0, Exterior (2) 18-0-0 to 22-2-15, Interior (1) 22-2-15 to 25-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.

| | | | | | |
|----------------------|---------------|--------------------------|----------|----------|--|
| Job 2301806-07081 | Truss A05G | Truss Type Hip Girder | Qty 2 | Ply 1 | LARRY WOOD CARPORT Job Reference (optional) |
|----------------------|---------------|--------------------------|----------|----------|--|

84 Components, Dunn, NC 28334

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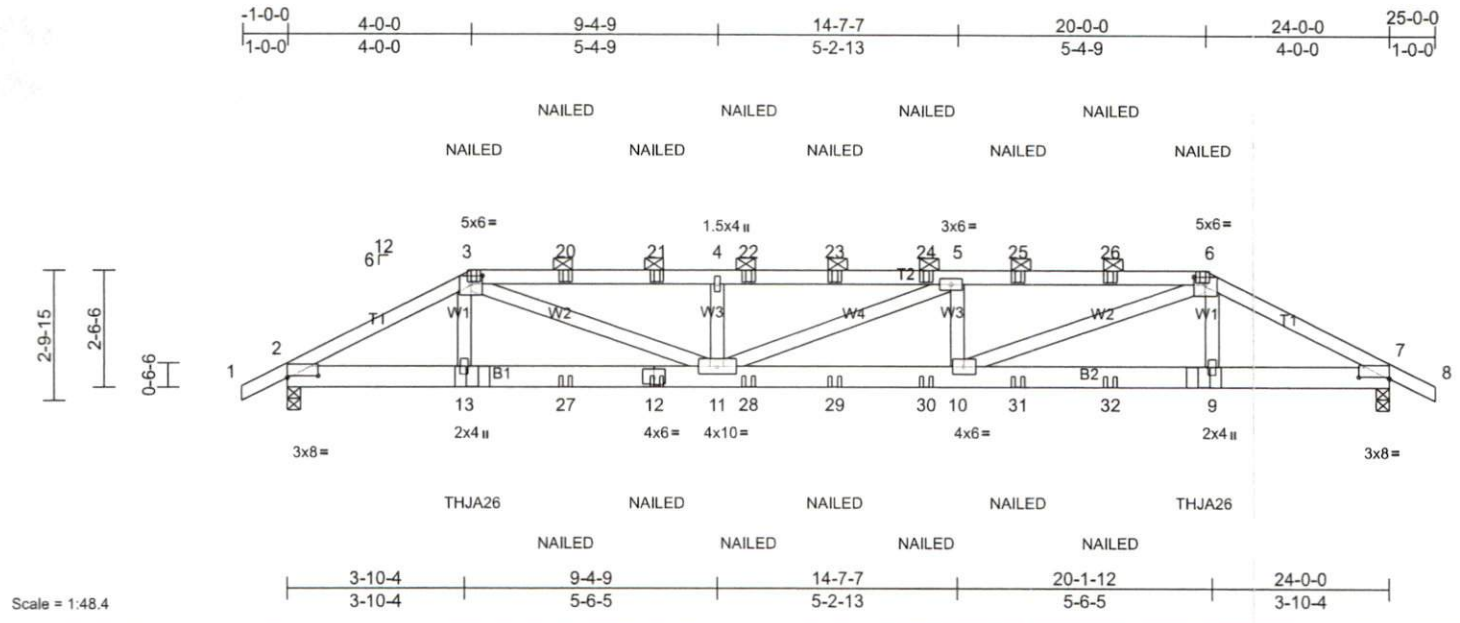


Plate Offsets (X, Y): [2:0-8-0,0-0-8], [3:0-3-0,0-2-0], [6:0-3-0,0-2-0], [7:0-8-0,0-0-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------|-------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.98 | Vert(LL) | 0.20 | 10-11 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.88 | Vert(CT) | -0.40 | 10-11 | >726 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.72 | Horz(CT) | 0.06 | 7 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MS | | | | | | | | Weight: 132 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2 *Except* T2:2x4 SP No.1
 BOT CHORD 2x6 SP No.2
 WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-1 oc purlins, except 2-0-0 oc purlins (2-2-12 max.); 3-6.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-0-12 oc bracing: 10-11.
 MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS

(lb/size) 2=1511/0-3-8, (min. 0-1-13), 7=1511/0-3-8, (min. 0-1-13)
 Max Horiz 2=42 (LC 25)
 Max Uplift 2=-288 (LC 8), 7=-288 (LC 9)

FORCES

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

TOP CHORD

2-3=-2742/586, 3-20=-3946/878, 20-21=-3946/878, 4-21=-3946/878, 4-22=-3946/878, 22-23=-3946/878, 23-24=-3946/878, 5-24=-3946/878, 5-25=-3961/882, 25-26=-3961/882, 6-26=-3961/882, 6-7=-2736/585

BOT CHORD

2-13=-502/2403, 13-27=-504/2385, 12-27=-504/2385, 11-12=-504/2385, 11-28=-838/3961, 28-29=-838/3961, 29-30=-838/3961, 10-30=-838/3961, 10-31=-481/2381, 31-32=-481/2381, 9-32=-481/2381, 7-9=-480/2398

WEBS

3-13=0/315, 3-11=-395/1719, 4-11=-453/241, 5-10=-459/244, 6-10=-401/1739, 6-9=0/309

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 288 lb uplift at joint 2 and 288 lb uplift at joint 7.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 4-0-6 from the left end to connect truss(es) J1 (1 ply 2x4 SP), CJ1 (1 ply 2x4 SP) to front face of bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Right Hand Hip) or equivalent at 19-11-10 from the left end to connect truss(es) J1 (1 ply 2x4 SP), CJ1 (1 ply 2x4 SP) to front face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (lb/ft)
 Vert: 1-3=-60, 3-6=-60, 6-8=-60, 14-17=-20
 Concentrated Loads (lb)
 Vert: 6=-43 (F), 12=-27 (F), 13=-204 (F), 3=-43 (F), 9=-204 (F), 20=-43 (F), 21=-43 (F), 22=-43 (F), 23=-43 (F), 24=-43 (F), 25=-43 (F), 26=-43 (F), 27=-27 (F), 28=-27 (F), 29=-27 (F), 30=-27 (F), 31=-27 (F), 32=-27 (F)

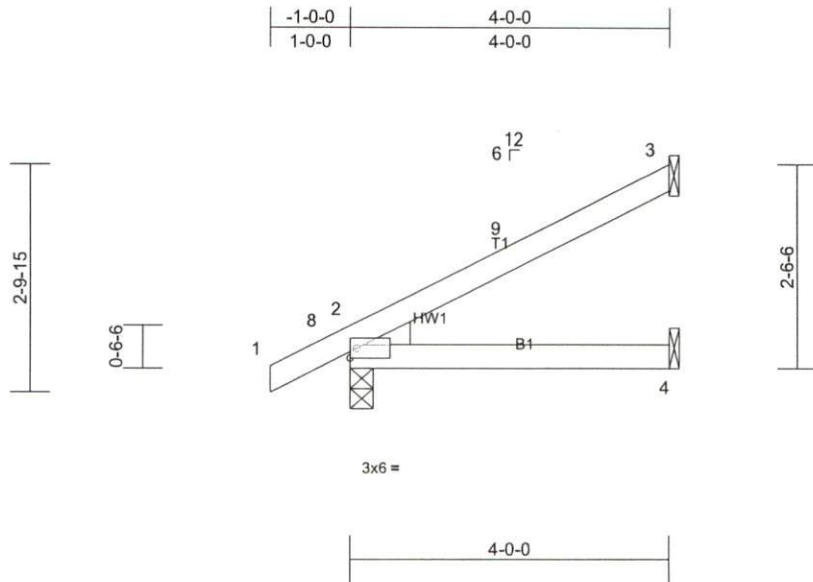
| | | | | | |
|----------------------|-------------|-------------------------|-----------|----------|--|
| Job 2301806-07081 | Truss J1 | Truss Type Jack-Open | Qty 18 | Ply 1 | LARRY WOOD CARPORT Job Reference (optional) |
|----------------------|-------------|-------------------------|-----------|----------|--|

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.22 | Vert(LL) | 0.01 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.16 | Vert(CT) | -0.02 | 4-7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 2 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 15 lb | FT = 20% |

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEDGE Left: 2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=225/0-3-8, (min. 0-1-8), 3=103/Mechanical, (min. 0-1-8), 4=47/Mechanical, (min. 0-1-8)
 Max Horiz 2=93 (LC 12)
 Max Uplift 2=-29 (LC 12), 3=-59 (LC 12)
 Max Grav 2=225 (LC 1), 3=103 (LC 1), 4=73 (LC 3)

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

- NOTES**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 3-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 3 and 29 lb uplift at joint 2.
 - 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

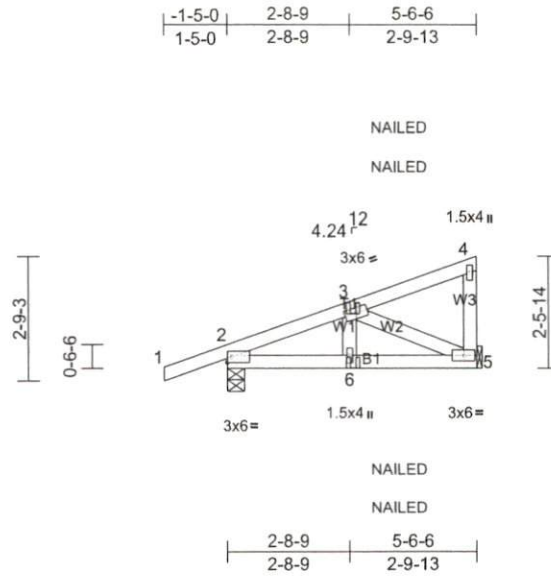
| | | | | | |
|----------------------|--------------|-----------------------------------|----------|----------|--|
| Job 2301806-07081 | Truss CJ1 | Truss Type Diagonal Hip Girder | Qty 4 | Ply 1 | LARRY WOOD CARPORT Job Reference (optional) |
|----------------------|--------------|-----------------------------------|----------|----------|--|

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| Loading | (psf) | Spacing | 2-0-0 | CSI | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|-------|--------|------|--------|------------------------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.15 | Vert(LL) | 0.00 | 5-6 | >999 | 240 | MT20 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.15 | Vert(CT) | -0.01 | 5-6 | >999 | 180 | |
| BCLL | 0.0* | Rep Stress Incr | NO | WB | 0.06 | Horz(CT) | 0.00 | 5 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 27 lb FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15,
Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-1 (F=-1, B=-1)

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=312/0-4-9, (min. 0-1-8), 5=205/
Mechanical, (min. 0-1-8)

Max Horiz 2=99 (LC 4)
Max Uplift 2=-86 (LC 4), 5=-52 (LC 8)

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

TOP CHORD 2-3=-281/47
WEBS 3-5=-261/71

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust)
Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 2 and 52 lb uplift at joint 5.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

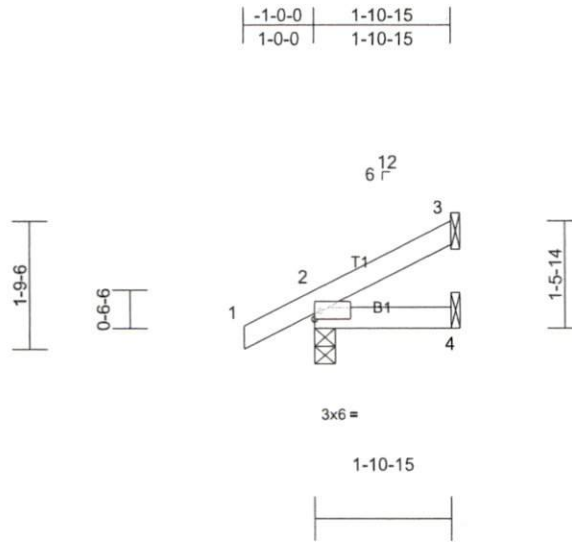
| | | | | | |
|----------------------|-------------|-------------------------|----------|----------|--|
| Job 2301806-07081 | Truss J2 | Truss Type Jack-Open | Qty 8 | Ply 1 | LARRY WOOD CARPORT Job Reference (optional) |
|----------------------|-------------|-------------------------|----------|----------|--|

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Scale = 1:31.1

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|----------|------|-------|--------|-----|--------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.15 | TC | 0.07 | Vert(LL) | 0.00 | 4-7 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.03 | Vert(CT) | 0.00 | 4-7 | >999 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horz(CT) | 0.00 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MP | | | | | | | Weight: 8 lb | FT = 20% |

LUMBER

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS (lb/size) 2=152/0-3-8, (min. 0-1-8), 3=43/Mechanical, (min. 0-1-8), 4=17/Mechanical, (min. 0-1-8)
Max Horiz 2=53 (LC 12)
Max Uplift 2=27 (LC 12), 3=27 (LC 12)
Max Grav 2=152 (LC 1), 3=43 (LC 1), 4=33 (LC 3)

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

NOTES

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3 and 27 lb uplift at joint 2.
- 6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard