# Job Name: Truss ID: C11120 Qty: 1 SPACING: 2- 0- 0 PLY: 1 WEIGHT: 59.96

| BRG | X-LOC | REACT | SIZE |
|---|---|---|---|
| 1 | 0- 1-12 | 479 | 3.50" |
| 2 | 1- 2-13 | 187 | 3.50" |
| 3 | 2- 5-10 | 259 | 3.50" |
| 4 | 2- 7-12 | 275 | 3.50" |
| 5 | 4- 2- 8 | 209 | 3.50" |
| 6 | 5- 9- 4 | 210 | 3.50" |
| 7 | 7- 4- 0 | 495 | 3.50" |
| 8 | 7- 6- 0 | 500 | 3.50" |
| 9 | 9- 1- 5 | 204 | 3.50" |
| 10 | 10- 8-11 | 215 | 3.50" |
| 11 | 12- 4- 0 | 405 | 3.50" |
| 12 | 12- 6- 0 | 485 | 3.50" |
| 13 | 14- 1- 5 | 204 | 3.50" |
| 14 | 15- 8-10 | 216 | 3.50" |
| 15 | 17- 3-14 | 335 | 3.50" |
| 16 | 17- 5-12 | 237 | 3.50" |
| 17 | 18- 8-14 | 192 | 3.50" |
| 18 | 19-10- 4 | 503 | 3.50" |

| TC | FORCE | AXL | BND | CSI | ID | SCRWS |
|---|---|---|---|---|---|---|
| OL-1 | 65 | 0.01 | 0.67 | 0.67 | 1 | |
| 1-2 | 121 | 0.02 | 0.61 | 0.62 | 1 | |
| 2-3 | -203 | 0.04 | 0.58 | 0.62 | 1 | |
| 3-4 | 201 | 0.01 | 0.46 | 0.47 | 1 | |
| 4-5 | 127 | 0.02 | 0.58 | 0.58 | 1 | |
| 5-6 | 442 | 0.05 | 0.75 | 0.79 | 1 | |
| 6-7 | 85 | 0.00 | 0.12 | 0.12 | 1 | |
| 7-8 | 90 | 0.01 | 0.04 | 0.06 | 1 | |
| 8-9 | 390 | 0.03 | 0.95 | 0.98 | 1 | |
| 9-10 | 83 | 0.00 | 0.64 | 0.64 | 1 | |
| 10-11 | 237 | 0.01 | 0.53 | 0.54 | 1 | |
| 11-12 | -252 | 0.05 | 0.56 | 0.61 | 1 | |
| 12-13 | 128 | 0.02 | 0.61 | 0.63 | 1 | |
| 13-OR | 65 | 0.01 | 0.67 | 0.67 | 1 | |

| BC | FORCE | AXL | BND | CSI | ID | SCRWS |
|---|---|---|---|---|---|---|
| 14-15 | 0 | 0.00 | 0.09 | 0.09 | 1 | |
| 15-16 | -264 | 0.02 | 0.05 | 0.06 | 1 | |
| 16-17 | 18 | 0.00 | 0.11 | 0.11 | 1 | |
| 17-18 | 0 | 0.00 | 0.11 | 0.11 | 1 | |
| 18-19 | 0 | 0.00 | 0.11 | 0.12 | 1 | |
| 19-20 | 0 | 0.00 | 0.12 | 0.12 | 1 | |
| 20-21 | 0 | 0.00 | 0.12 | 0.12 | 1 | |
| 21-22 | 0 | 0.00 | 0.12 | 0.12 | 1 | |
| 22-23 | 0 | 0.00 | 0.12 | 0.13 | 1 | |
| 23-24 | -96 | 0.00 | 0.01 | 0.07 | 1 | |
| 24-25 | 0 | 0.00 | 0.09 | 0.09 | 1 | |

| WEB | FORCE | CSI | ID | SCRWS |
|---|---|---|---|---|
| 1-14 | -469 | 0.09 | 1 | |
| 2-15 | 143 | 0.02 | 1 | |
| 3-16 | -271 | 0.06 | 1 | |
| 4-17 | -237 | 0.27 | 1 | |
| 5-18 | -579 | 0.37 | 1 | |
| 6-19 | -568 | 0.79 | 1 | |
| 8-20 | -454 | 0.63 | 1 | |
| 9-21 | -596 | 0.41 | 1 | |
| 10-22 | -162 | 0.17 | 1 | |
| 11-23 | -251 | 0.06 | 1 | |
| 12-24 | 188 | 0.03 | 1 | |
| 13-25 | -494 | 0.09 | 1 | |

UPLIFT REACTION(S) :

| Support | C&C Wind | Main Wind | Non-Wind |
|---|---|---|---|
| 1 | -360 lb | -295 lb | |
| 3 | -141 lb | -77 lb | -128 lb |
| 4 | -33 lb | | -70 lb |
| 7 | -338 lb | -252 lb | -74 lb |
| 8 | -288 lb | -160 lb | -104 lb |
| 11 | -174 lb | -100 lb | -110 lb |
| 12 | -324 lb | -242 lb | -103 lb |
| 15 | -15 lb | | -55 lb |
| 16 | -123 lb | -69 lb | -173 lb |
| 18 | -381 lb | -305 lb | |

| Type | ID | SECTION | Fy(ksi) | Joints |
|---|---|---|---|---|
| TC | 1 | 20TC20 | 50 | |
| BC | 1 | 20TC20 | 50 | |
| WEB | 1 | 20TC20 | 50 | |

20 psf bottom chord live load NOT required on this truss, per IBC/IRC requirements for attics with limited storage.

THIS DESIGN IS THE COMPOSITE RESULT OF MULTIPLE LOAD CASES.
Loaded for 10 PSF non-concurrent BCLL.
Loaded for 200 lb non-concurrent moving BCLL.
Mark all interior bearing locations.
Install interior support(s) before erection.
This truss is designed using the ASCE7-16 Wind Specification
Bldg Enclosed = Yes,
Truss Location = End Zone
Exp Category = B
Bldg Length = 60.00 ft, Bldg Width = 25.00 ft
Mean roof height = 11.91 ft, mph = 160
Occupancy Category II, Wind Dead Load = 7.20 psf
Designed as Main Wind Force Resisting System
- Low-rise and Components and Cladding
Tributary Area = 40 sqft
Uplifts based on elevation at or above 0 ft

This design based on chord bracing applied per the following schedule:

| | max o.c. | from | to |
|---|---|---|---|
| TC | 12.00" | -2- 0- 0 | 22- 0- 0 |
| BC | 12.00" | 0- 0- 0 | 20- 0- 0 |

Galvanization: G60

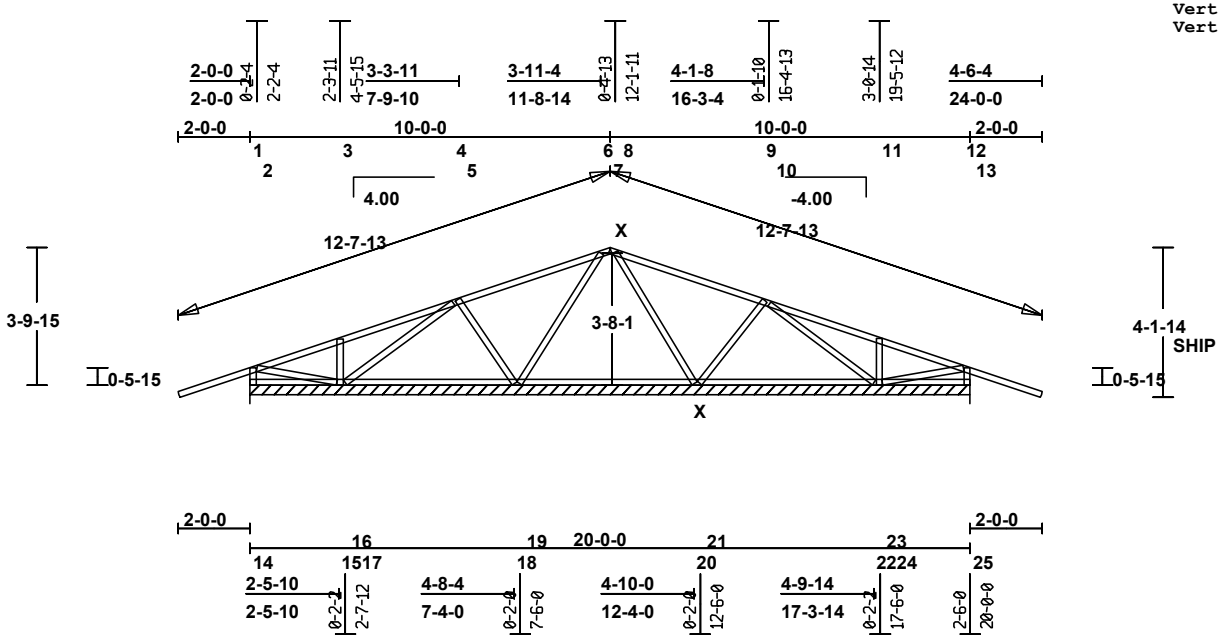
REACTIONS

| Brg | Reac | Horiz | Brg | Reac | Horiz |
|---|---|---|---|---|---|
| 1 | 479 | 0 | 10 | 215 | 0 |
| 2 | 187 | 0 | 11 | 405 | -235 |
| 3 | 259 | 144 | 12 | 485 | 370 |
| 4 | 275 | 191 | 13 | 204 | 0 |
| 5 | 209 | 0 | 14 | 216 | 0 |
| 6 | 210 | 0 | 15 | 335 | -129 |
| 7 | 495 | -325 | 16 | 237 | -182 |
| 8 | 500 | 302 | 17 | 192 | -4 |
| 9 | 204 | 0 | 18 | 503 | 0 |

| | DEFLECTION | LOC. | ALLOW. | LC |
|---|---|---|---|---|
| Vert TL: | -0.11" (L/999) | 8-9 | L/240 | 40 |
| Vert LL: | -0.10" (L/999) | 8-9 | L/360 | 40 |
| Horz TL: | 0.01" | | | |
| Cantilever | | | | |
| Vert TL: | -0.18" (L/128) | OL-1 | L/ 90 | 1 |
| Vert LL: | -0.15" (L/159) | OL-1 | L/120 | 1 |

| ===== Joint Locations ===== | | | |
|---|---|---|---|
| 1 | 0- 0- 0 | 14 | 0- 0- 0 |
| 2 | 0- 2- 4 | 15 | 2- 5-10 |
| 3 | 2- 5-15 | 16 | 2- 5-15 |
| 4 | 5- 8- 0 | 17 | 2- 7-12 |
| 5 | 5- 9-10 | 18 | 7- 4- 0 |
| 6 | 9- 8-14 | 19 | 7- 6- 0 |
| 7 | 10- 0- 0 | 20 | 12- 4- 0 |
| 8 | 10- 1-11 | 21 | 12- 6- 0 |
| 9 | 14- 3- 4 | 22 | 17- 3-14 |
| 10 | 14- 4-13 | 23 | 17- 5-12 |
| 11 | 17- 5-12 | 24 | 17- 6- 0 |
| 12 | 19- 9-12 | 25 | 20- 0- 0 |
| 13 | 20- 0- 0 | | |

| == X-Brac. Locations (Joints)== | |
|---|---|
| BC | TC |
| 20 | 8 |




Each connection requires 3/8" diameter proprietary bolt supplied by NUCONSTEEL
SCRWS = The required number of double-sided #14 screws at each end of the truss member: SP = Spacer supplied by NUCONSTEEL

OVER CONTINUOUS SUPPORT

Scale: 3/16" = 1'

**NUTRUSS™**
A NUCONSTEEL Product

*WARNING* *Read all notes on this sheet and verify all design parameters.*

Truss design on this sheet is only valid with NUTRUSS sections and is for an individual building component, not a truss system. Bracing shown on this drawing is not erection bracing, wind bracing, portal bracing or similar bracing which is part of the building design and which must be considered by the building designer. Bracing shown is lateral bracing of truss members only. Any additional bracing, temporary and/or permanent, is the responsibility of the truss erector and/or the building designer. The Professional Engineer's seal indicates only that the truss assembly shown on this sheet meets the acceptable design criteria for the loads, loading condition, truss configuration and spans specified.

Designer:
Dsgn Chk:
Engg Chk:
Cutting :

| | |
|---|---|
| TC Live | 42.00 psf |
| TC Dead | 10.00 psf |
| BC Live | 0.00 psf |
| BC Dead | 10.00 psf |
| TOTAL | 62.00 psf |

WO: C11120_Trusses

Design Spec: AISI S100-2012
Buildg Spec: IBC-2018

Date: 11/23/2022@ 16:56:20
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