SPACING: 2-0-0 PLY: 1 Job Name: **Truss ID: C61230 WEIGHT:** Qty: 183.27 UPLIFT REACTION(S) THIS DESIGN IS THE COMPOSITE RESULT OF This design based on chord bracing applied WEB FORCE CSI ID SCRWS Support C&C Wind Main Wind Non-Wind MULTIPLE LOAD CASES. per the following schedule: 1-30 -417 0.05 1 -322 lb -198 lb Loaded for 10 PSF non-concurrent BCLL. max o.c. from -321 lb -198 lb Loaded for 200 lb non-concurrent moving TC 12.00" -2- 0- 0 32- 0- 0 2-31 -2591 0.44 1 2B- 2B Type ID SECTION Fy(ksi) 30- 0- 0 3-32 979 0.13 1 Joints BCLL. BC 12.00" 0- 0- 0 4-33 -1198 0.27 1 20TC18 Galvanization: G60 TC 50 This truss is designed using the REACTIONS 5-34 373 0.05 1 BC 20TC18 50 6-35 -213 0.12 1 1 20TC18 50 ASCE7-16 Wind Specification BRG X-LOC SIZE REACT HORIZ 7-36 -169 0.10 1 20 psf bottom chord live load NOT required Bldg Enclosed = Yes, 0- 1-12 3.50" 2071 101 8-37 293 0.04 1 on this truss, per IBC/IRC requirements for Truss Location = End Zone 2 29-10- 4 3.50" 101 attics with limited storage. Exp Category = B
Bldg Length = 60.00 ft, Bldg Width = 25.00 ft 9-38 -442 0.44 1 10-39 500 0 12 1 Mean roof height = 14.00 ft, mph = 110 11-40 -664 0.95 1 12-41 767 0.24 1 Occupancy Category II, Wind Dead Load = 7.20 psf Designed as Main Wind Force Resisting System 13-42 -1107 0.90 1 14-43 1072 0.45 1 - Low-rise and Components and Cladding 16-44 1064 0.45 1 Tributary Area = 60 sqft Uplifts based on elevation at or above 17-45 -1079 0.90 1 0 ft 18-46 789 0.25 1 19-47 -702 1.03 1 20-48 521 0.13 1 21-49 -459 0.47 1 DEFLECTION T.O.C. AT.T.OW LC Vert TL: -0.23" (L/999) 13-14 L/240 79 22-50 299 0.05 1 -0.16" (L/999) 13-14 L/360 79 Vert LL: 23-51 -196 0.12 1 0.09" Horz TL: 24-52 -168 0.10 1 Cantilever 25-53 319 0.04 1 Vert TL: -0.13" (L/209) 29-OR L/ 90 75 26-54 -1114 0.27 1 Vert LL: -0.13" (L/204) 29-OR L/120 27-55 905 0.12 1 28-56 -2638 0.47 1 2B- 2B 29-57 -411 0.05 1 ===== Joint Locations ===== 30 0-0-0 0- 0- 0 1- 1-10 31 0- 3- 0 1- 3- 0 32 1- 3- 0 2- 3-13 33 1- 5- 3 2- 6- 0 3- 6-11 34 4- 9-11 3- 9- 0 35 5- 0- 0 36 6- 0-10 6- 3- 0 7- 3-11 37 7- 6- 0 38 8- 6-10 9- 9-12 8- 9- 0 11 10- 0- 0 40 11- 0-11 12- 3-12 41 11- 3- 0 12 13 12- 6- 0 42 13- 6-11 14 14- 9- 1 43 13- 9- 0 15- 0- 0 44 16- 0-11 15- 2- 1 45 16- 3- 0 16 17- 3-12 18- 6-11 46 17- 6- 0 47 18- 9- 0 1 8 19 19- 9-12 48 21- 0-10 20 20- 0- 0 49 21- 3- 0 22- 3-11 23- 6-10 22- 6- 0 51 23- 9- 0 52 26- 0-11 23 24- 9-11 25- 0- 0 53 26- 3- 0 27- 3-13 54 28- 5- 6 25 26 27- 6- 0 55 28- 7- 9 27 28- 7- 9 56 29- 9- 1 28 28- 9- 3 57 30- 0- 0 29 30- 0- 0 == X-Brac. Locations (Joints) == BC TC 48 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 WO: C61230 Trusses 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

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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.

When the specified screw count cannot be achieved at the chord to web connections, a 16 gauge gusset plate must be added on both sides of the connection. Typically, gusset plates are at pitch break joints."

Min. screw spacing = 9/16" and min. edge distance = 9/16".

| | | 110.00.200_1100000 | |
|---------|-----------|------------------------|---------|
| Chk: | | | |
| Dsgnr: | | | |
| TC Live | 42.00 psf | Design Spec: AISI-2001 | |
| TC Dead | 10.00 psf | Buildg Spec: IBC-2018 | |
| BC Live | 0.00 psf | | |
| BC Dead | 10.00 psf | Date: 11/24/2022@ | 12:07: |
| TOTAL | 62.00 psf | Seqn S8.1.0a - 6318 | 12.07.4 |

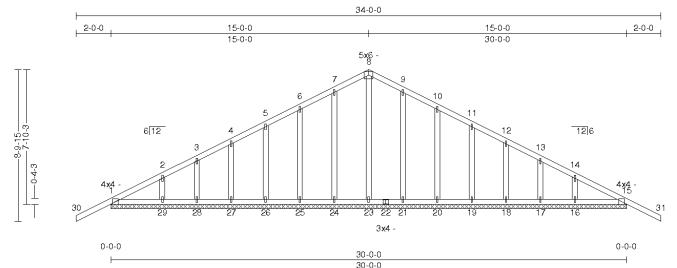
Midwest Manufacturing

Address 1 Address 2 City, State Zip

Truss: C61230E JobName: RESISTOCK ENDS 02/22/17 10:48:45 Date:

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All plates shown to be Eagle 20 unless otherwise noted.

| Loading (psf) | General | | CSI | Summary | Deflecti | on | L/ | (loc) | Allowed |
|--------------------|-------------------|------------|------|--------------|----------|------|-------|-------|---------|
| TCLL: 42 | | IRC 2012/ | TC: | 0.79 (15-31) | Vert TL: | 0 in | L/999 | 16 | L/180 |
| Snow(Ps/Pg): 42/60 | ľ | TPI 1-2007 | BC: | 0.05 (16-17) | Vert LL: | 0 in | L/999 | 16 | L/240 |
| TCDL: 10 | Rep Mbr Increase: | No | Web: | 0.29 (7-24) | Horz TL: | 0 in | | | |
| BCLL: 0 | Lumber D.OL.: | 115 % | | | | | | | |
| BCDL: 10 | | | | | | | | | |

Reaction Summary

| Brg Combo | Brg Width | MaxReact | Ave React | Max Grav Uplift | Max MWFRS Uplift | Max C&C Uplift | Max Uplift | Max Horiz |
|-----------|-----------|----------|-----------|-----------------|------------------|----------------|------------|-----------|
| 1 | | 580 lbs | 165 plf | -101 lbs | -8 lbs | -114 lbs | -114 lbs | 221 lbs |

Material Summary

SPF #2.2 x 4 SPF #2 2 x 4 Webs SPF Stud 2x 4

SPF #2 2 x 4

Bracing Summary

Sheathed or Purlins at 6-3-0, Purlin design by Others. TC Bracing: Sheathed or Purlins at 10-0-0, Purlin design by Others.

8-23

1) This truss has been designed for the effects of balanced and unbalanced snow loads for hips/gables in accordance with ASCE7 - 10 with the following user defined input: 60 psf ground snow load, Terrain Category B, Exposure Category Fully Exposed (Ce = 0.9), Risk Category II (I = 1.00), Thermal Condition Cold ventilated (Ct = 1.1), DOL = 1.15. Ventilated. If the roof configuration differs from hip/gable, Building Designer shall verify snow loads.

- 2) This truss has been designed to account for the effects of ice dams forming at the eaves.
- 3) This truss has been designed for the effects of wind loads in accordance with ASCE7 10 with the following user defined input: 115 mph (Factored), Exposure B, Enclosed, Gable/Hip, Risk Category II, Overall Bldg Dims 25 ft x 60 ft, h= 15 ft, End Zone Truss, Both end webs considered. DOL= 1.60

Member Forces Summary

Table indicates: Member ID, max CSI max axial force, (max compr. force if different from max axial force). Only forces greater than 300 lbs are shown in this table.

| BC | | | | | | | |
|----|-------------------------------|----------------------------------|--|--|--|--|--|
| | 6-25 7-24 9-21 10-20 | 0.206 0.285 0.285 0.206 | -316 lbs -319 lbs -319 lbs -316 lbs | | | | |

JSI Summary

1 = 0.38, 2 = 0.73, 3 = 0.53, 4 = 0.53, 5 = 0.53, 6 = 0.53, 6 = 0.53, 7 = 0.53, 8 = 0.24, 9 = 0.53, 10 = 0.53, 11 = 0.53, 12 = 0.53, 12 = 0.53, 14 = 0.73, 15 = 0.38, 16 = 0.79, 17 = 0.57, 18 = 0.57, 19 = 0.57, 20 = 0.57, 21 = 0.57, 22 = 0.37, 23 = 0.51, 24 = 0.57, 25 = 0.51, 25 = 0.5

- 1) Unless noted otherwise, do not cut or alter any truss member or plate without prior approval from a Professional Engineer.
- Gable requires continuous bottom chord bearing.
- 3) Gable webs placed at 24 " OC, U.N.O.
- 4) Attach gable webs with 1x4 20ga plates, U.N.O.
- 5) Bracing shown is for in-plane requirements. For out-of-plane requirements, refer to BCSI-B3 published by the SBCA.
- 6) When this truss has been chosen for quality assurance inspection, the Double Polygon Method per TPI 1-2007/Chapter 3 shall be used.
- The fabrication tolerance for this roof truss is 10 % (Cq = 0.90).
- 8) Creep has been considered in the analysis of this truss.
- 9) Due to negative reactions in gravity load cases, special connections to the bearing surface at joints 16, 29 may need to be considered.
 10) Listed wind uplift reactions based on MWFRS & C&C loading.