| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------------------|-----|-----|--------------------------|
| Q-2402834 | A01 | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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Scale = 1:49.5

| Loa | adina | | (psf) | Spacing | | 2-0-0 | csi | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-----------|--------------------|-------------------------------|----------------------------|--|------------|--------------------------------|---------------------------------------|--------------|-------------------------------|----------|-------|--------|-----|----------------|----------|
| тсі | LL (roof) | | 20.0 | Plate Grip DOL | | 1.00 | тс | 0.22 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCI | DL | | 10.0 | Lumber DOL | | 1.15 | BC | 0.19 | Vert(CT) | n/a | - | n/a | 999 | | |
| BC | DL | - | 10.0* | Code | IRC20 | 15/TPI2014 | Matrix-AS | 0.06 | Horz(CT) | 0.00 | 12 | n/a | n/a | Weight: 118 lb | FT = 20% |
| LUI | MBER | | | | 8) | Provide med | chanical connec | tion (by oth | ers) of truss | to | | | | | |
| TOI BO | P CHORD | 2x4 SP N 2x4 SP N | 0.2 0.2 | | | (s) 2, 12, 20 | , 21, 22, 23, 17 | , 16, 15, 14 | 2, 12. | at joint | | | | | |
| OTI | HERS | 2x4 SP N | o.2 *Excep | ot* ST1:2x4 SP No.3 | 9) | This truss is | designed in ac | cordance w | ith the 2015 | | | | | | |
| BR | ACING | | | | | Internationa | I Residential Co and referenced of | ode sections | 8 R502.11.1 | and | | | | | |
| toi Bo | P CHORD T CHORD | Structural Rigid ceili | l wood she ing directly | eathing directly applied. / applied. | 10) | This truss de structural we | esign requires t | hat a minim | um of 7/16" irectly to the | e top | | | | | |
| RE | ACTIONS | All bearing | s 25-11-0. | | | chord and 1 | /2" gypsum she | etrock be a | pplied direct | tly to | | | | | |
| | (lb) - | Max Horiz | 2=-42 (LC | C 9), 24=-42 (LC 9) | | | chord. | | | | | | | | |
| | | | 2, 12, 14, | 15, 16, 17, 20, 21, 22, |) 10 | | Standard | | | | | | | | |
| | | | 23, 24, 27 | | | | | | | | | | | | |
| | | Max Grav | (s) 2, 12, | ns 250 (ib) or less at jo 15. 16. 17. 18. 20. 21. 2 | int 22. | | | | | | | | | | |
| | | | 24, 27 ex | cept 14=402 (LC 21), | , | | | | | | | | | | |
| | 2050 | (11-) | 23=402 (l | _C 20) | | | | | | | | | | | |
| FUI | KUES | (lb) - Max (lb) or les: | . Comp./M s except w | ax. Ten All forces 250 /hen shown. |) | | | | | | | | | | |
| WE | BS | 3-23=-270 | 0/120, 11-1 | 14=-270/120 | | | | | | | | | | | |
| NO | TES | | | | | | | | | | | | | | |
| 1) | Unbalance | ed roof live | loads have | e been considered for th | nis | | | | | | | | | | |
| 2) | Wind: ASC | CE 7-10: Vu | lt=120mph | n (3-second aust) | | | | | | | | | | | |
| -, | Vasd=95m | nph; TCDL= | 6.0psf; BC | CDL=6.0psf; h=25ft; | | | | | | | | | | | |
| | B=45ft; L= | 26ft; eave= | 2ft; Cat. II | ; Exp B; Enclosed; | | | | | | | | | | | |
| | 2-1-0 Exte | airectional) erior (2) 2-1 | and C-C C | Jorner (3) -0-11-0 to 1-8 Corner (3) 12-11-8 | to | | | | | | | | | | |
| | 15-11-8, E | xterior (2) 1 | 15-11-8 to | 26-10-0 zone; cantileve | r | | | | | | | | | | |
| | left and rig | ht exposed | l; end vert | ical left and right | | | | | | | | | | | |
| | exposed;C | C-C for men | nbers and | forces & MWFRS for | | | | | | | | | | | |
| | POI = 1.60 | snown; Lurr | nber DOL= | 1.60 plate grip | | | | | | | | | | | |
| 3) | Truss des | igned for w | vind loads i | in the plane of the truss | | | | | | | | | | | |
| | only. For s | studs expos | sed to wind | d (normal to the face), | | | | | | | | | | | |
| | see Stand | ard Industry | y Gable Er | nd Details as applicable | , | | | | | | | | | | |
| 1) | All plates | qualified bu | 20 unless | otherwise indicated | ۱. | | | | | | | | | | |
| | Gable reg | uires contin | uous botto | om chord bearing. | | | | | | | | | | | |
| 6) | Gable stud | ds spaced a | at 2-0-0 oc | | | | | | | | | | | | |
| 7) | * This trus | s has been | designed | for a live load of 20.0ps | f | | | | | | | | | | |
| | on the both | tom chord i | n all areas | where a rectangle | | | | | | | | | | | |
| | chord and | any other r | nembers. | | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------|-----|-----|--------------------------|
| Q-2402834 | A02 | Common | 4 | 1 | Job Reference (optional) |

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Scale = 1:49.5

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|-------------------------------|--|-----------------------------|------------------|---------------------|------------|----------------|-------|-------|--------|-----|----------------|----------|--|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | тс | 0.69 | Vert(LL) | -0.15 | 8-10 | >999 | 240 | MT20 | 244/190 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.79 | Vert(CT) | -0.50 | 8-10 | >628 | 180 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.19 | Horz(CT) | 0.08 | 6 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | () | | | | | Weight: 110 lb | FT = 20% | |
| LUMBER | · · | | 6) This truss de | esign requires that | at a minim | um of 7/16" | | | _ | | | | |
| TOP CHORD | 2x4 SP No.2 | | structural wo | ood sheathing be | applied d | irectly to the | top | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | chord and 1 | /2" gypsum sheet | trock be a | pplied directl | y to | | | | | | |
| WEBS | 2x4 SP No.2 | | the bottom of | hord. | | | | | | | | | |
| BRACING | | | LOAD CASE(S) | Standard | | | | | | | | | |
| TOP CHORD | Structural wood she | eathing directly applied. | | | | | | | | | | | |
| BOT CHORD | T CHORD Rigid ceiling directly applied. | | | | | | | | | | | | |
| DEACTIONS | (lb/oizo) 2=1002/0 | $2.0 \ (min \ 0.1.0)$ | | | | | | | | | | | |
| REACTIONS | (ID/SIZE) 2-1092/0 6-1002/0 | -3-6, (11111. $0-1-6$), | | | | | | | | | | | |
| | 6=1092/0-3-8, (min. 0-1-8) Max Horiz 2=-42 (LC 9) | | | | | | | | | | | | |
| | Max Inlift 2=-30 (1.0 | C 11) 6=-30 (I C 11) | | | | | | | | | | | |
| FORCES | (lb) - Max Comp (M | lav Ten - All forces 250 | | | | | | | | | | | |
| IONOLO | (lb) or less except w | hen shown | | | | | | | | | | | |
| TOP CHORD | 2-17=-2603/133 3- | 17=-2528/150 | | | | | | | | | | | |
| | 3-18=-2301/102, 4- | 18=-2220/115, | | | | | | | | | | | |
| | 4-19=-2220/115, 5- | 19=-2301/102, | | | | | | | | | | | |
| | 5-20=-2528/150, 6-2 | 20=-2603/133 | | | | | | | | | | | |
| BOT CHORD | 2-10=-93/2446, 9-10 | 0=-38/1550, | | | | | | | | | | | |
| | 8-9=-38/1550, 6-8=- | -101/2446 | | | | | | | | | | | |
| WEBS | 4-8=0/773, 5-8=-46 | 5/128, 4-10=0/773, | | | | | | | | | | | |
| NOTEO | 3-10=-465/128 | | | | | | | | | | | | |
| NOIES | . | | | | | | | | | | | | |
| 1) Unbalance | ed root live loads have | e been considered for th | lis | | | | | | | | | | |
| 2) Wind ASC | F 7-10: \/ult=120mpl | a (3-second quet) | | | | | | | | | | | |
| Vasd=95m | DD = 120 mp | CDI = 6 Onsf h = 25ft | | | | | | | | | | | |
| B=45ft: L= | 26ft: eave=4ft: Cat. II | : Exp B: Enclosed: | | | | | | | | | | | |
| MWFRS (| directional) and C-C | Exterior (2) -0-11-0 to | | | | | | | | | | | |
| 2-1-0, Inte | rior (1) 2-1-0 to 12-11 | -8, Exterior (2) 12-11-8 | to | | | | | | | | | | |
| 15-11-8, Ir | nterior (1) 15-11-8 to 2 | 26-10-0 zone; cantilever | | | | | | | | | | | |
| left and rig | ht exposed ; end ver | tical left and right | | | | | | | | | | | |
| exposed;C | C-C for members and | forces & MWFRS for | | | | | | | | | | | |
| reactions s | shown; Lumber DOL= | =1.60 plate grip | | | | | | | | | | | |
| DOL=1.60 |) - k k d: | | | | | | | | | | | | |
| on the bet | tom chord in all areas | where a rectangle | il | | | | | | | | | | |
| 3-06-00 ta | n the bottom chord in all areas where a rectangle | | | | | | | | | | | | |
| chord and | any other members | | | | | | | | | | | | |
| Provide m | echanical connection | (by others) of truss to | | | | | | | | | | | |
| bearing pla | ate capable of withsta | anding 30 lb uplift at join | t | | | | | | | | | | |
| 2 and 30 ll | b uplift at joint 6. | 5 , 7 | | | | | | | | | | | |
| 5) This truss | is designed in accord | lance with the 2015 | | | | | | | | | | | |
| Internation | al Residential Code | sections R502.11.1 and | | | | | | | | | | | |
| R802.10.2 | and referenced stan | dard ANSI/TPI 1. | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------|-----|-----|--------------------------|
| Q-2402834 | A03 | Common | 5 | 1 | Job Reference (optional) |

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Scale = 1:47.9

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|------------------------|--|---|------------------------------|---------------------|------------|----------------|-------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.69 | Vert(LL) | -0.15 | 7-9 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.80 | Vert(CT) | -0.49 | 7-9 | >630 | 180 | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | WB Matrix-AS | 0.19 | Horz(CT) | 0.08 | 6 | n/a | n/a | Weight: 108 lb | FT = 20% |
| | | | 6) This truss d | esign requires that | at a minim | um of 7/16" | tan | | | | | |
| BOT CHORD | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 | | chord and 1 the bottom of | 2" gypsum sheet | trock be a | pplied directl | y to | | | | | |
| RRACING | 2,4 01 10.2 | | LOAD CASE(S) | Standard | | | | | | | | |
| TOP CHORD BOT CHORD | Structural wood she Rigid ceiling directly | eathing directly applied. y applied. | | | | | | | | | | |
| REACTIONS | (Ib/size) 2=1093/0 6=1036/0 Max Horiz 2=43 (LC Max Uplift 2=-31 (LC | 9-3-8, (min. 0-1-8),)-3-8, (min. 0-1-8) ; 10) C 11), 6=-7 (LC 11) | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M | lax. Ten All forces 250 | 0 | | | | | | | | | |
| | (lb) or less except w | vhen shown. | | | | | | | | | | |
| TOP CHORD | 2-16=-2606/138, 3- | 16=-2531/155, 17=-2223/119 | | | | | | | | | | |
| | 4-18=-2229/131, 5- | 18=-2310/117, | | | | | | | | | | |
| | 5-19=-2539/166, 6- | 19=-2615/154 | | | | | | | | | | |
| BOT CHORD | 2-9=-113/2449, 8-9= | =-50/1553, 7-8=-50/155 | 53, | | | | | | | | | |
| WEBS | 6-7=-114/2457 4-7=0/780 5-7=-47 | 0/129 4-9=0/772 | | | | | | | | | | |
| WEBS | 3-9=-465/128 | 0/123, 4-3-0/172, | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Unbalanc | ed roof live loads have | e been considered for t | his | | | | | | | | | |
| design. | 0 | | | | | | | | | | | |
| 2) Wind: AS | CE 7-10; Vult=120mpl | h (3-second gust) | | | | | | | | | | |
| B=45ft: L | =26ft: eave=4ft: Cat. II | I: Exp B: Enclosed: | | | | | | | | | | |
| MWFRS | (directional) and C-C E | Exterior (2) -0-11-0 to | | | | | | | | | | |
| 2-1-0, Inte | erior (1) 2-1-0 to 12-11 | I-8, Exterior (2) 12-11-8 | to | | | | | | | | | |
| 15-11-8, I | nterior (1) 15-11-8 to 2 | 25-11-0 zone; cantileve | r | | | | | | | | | |
| exposed: | C-C for members and | forces & MWFRS for | | | | | | | | | | |
| reactions | shown; Lumber DOL= | =1.60 plate grip | | | | | | | | | | |
| DOL=1.6 | 0 | | | | | | | | | | | |
| 3) * This true | ss has been designed | for a live load of 20.0ps | sf | | | | | | | | | |
| 3-06-00 ta | all by 2-00-00 wide wil | I fit between the bottom | ı | | | | | | | | | |
| chord and | any other members. | | | | | | | | | | | |
| 4) Provide n | nechanical connection | (by others) of truss to | | | | | | | | | | |
| bearing p | late capable of withsta | anding 7 lb uplift at joint | 6 | | | | | | | | | |
| 5) This truss | s is designed in accord | ance with the 2015 | | | | | | | | | | |
| Internatio | nal Residential Code | sections R502.11.1 and | | | | | | | | | | |
| R802.10. | 2 and referenced stan | dard ANSI/TPI 1. | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 | |
|--|-------|--------------------|---------------|-------------|---|--------|
| Q-2402834 | A04 | Common | 8 | 1 | Job Reference (optional) | |
| Carolina Structural Systems, Star, NC 27356, JSH | | Run: 8.72 S Mar 20 | 2024 Print: 8 | 3.720 S Mar | 20 2024 MiTek Industries, Inc. Tue Dec 03 14:21:27 Pa | ige: 1 |

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Scale = 1:47.9

Plate Offsets (X, Y): [4:0-2-4,0-1-8], [5:0-2-0,Edge], [6:0-2-4,0-1-8]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|--|------------------|-----------------|--|---|--|--|--------------|-------|--------|-----|----------------|----------|--|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | тс | 0.61 | Vert(LL) | -0.19 | 11 | >999 | 240 | MT20 | 244/190 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.92 | Vert(CT) | -0.59 | 10-14 | >525 | 180 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.35 | Horz(CT) | 0.09 | 8 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | | | | | | Weight: 123 lb | FT = 20% | |
| LUMBER TOP CHORD 2x4 S BOT CHORD 2x4 S | P No.2 P No.2 | • | 6) This truss de structural wo chord and 1 | esign requires t ood sheathing l /2" gypsum she | that a minim be applied d eetrock be a | um of 7/16" irectly to the pplied direct | top ly to | | | | | - | |

- BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.2 *Except* W3:2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied. Rigid ceiling directly applied. Except: BOT CHORD 6-0-0 oc bracing: 11-16 2=1183/0-3-8, (min. 0-1-8), **REACTIONS** (lb/size)
- 8=1126/0-3-8, (min. 0-1-8) Max Horiz 2=43 (LC 10) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250
- (lb) or less except when shown. TOP CHORD 2-24=-2871/0, 3-24=-2830/0, 3-25=-2594/0, 4-25=-2513/0, 6-26=-2519/0, 7-26=-2600/0,
- 7-27=-2837/0, 8-27=-2870/0 BOT CHORD 2-17=0/2685, 15-17=0/1970, 14-15=0/1970, 10-14=0/1970, 9-10=0/1970, 8-9=0/2694 WEBS 6-11=0/773. 9-11=0/689. 7-9=-454/113. 16-17=0/682, 4-16=0/766, 3-17=-449/111, 4-6=-1882/70

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=26ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-11-0 to 2-1-0, Interior (1) 2-1-0 to 12-11-8, Exterior (2) 12-11-8 to 15-11-8, Interior (1) 15-11-8 to 25-11-0 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated. * This truss has been designed for a live load of 20.0psf
- 4) 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.
- 5) 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.

the bottom chord. LOAD CASE(S) Standard

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------|-----|-----|--------------------------|
| Q-2402834 | A05 | Common | 1 | 1 | Job Reference (optional) |

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Scale = 1:48

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------------------------|--------------------------|---|------------------|------------------|--------------|----------------|------|-------|--------|-----|----------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | тс | 0.23 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.21 | Vert(CT) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 12 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | | | | | | Weight: 116 lb | FT = 20% |
| LUMBER | | · · · | 9) This truss is | designed in ac | cordance w | ith the 2015 | - | | | | | |
| TOP CHORD | 2x4 SP No.2 | | Internationa | Residential Co | ode sections | 8 R502.11.1 a | and | | | | | |
| BOT CHORD | 2x4 SP No.2 | | R802.10.2 a | ind referenced | standard AN | ISI/TPI 1. | | | | | | |
| OTHERS | 2x4 SP No.2 *Exce | pt* ST1:2x4 SP No.3 | 10) This truss d | esign requires t | hat a minim | um of 7/16" | | | | | | |
| BRACING | | | structural w | ood sheathing b | pe applied d | irectly to the | top | | | | | |
| TOP CHORD | Structural wood she | eathing directly applied | chord and 1 | /2" gypsum she | etrock be a | pplied direct | y to | | | | | |
| BOT CHORD | Rigid ceiling directly | y applied. | | nora. | | | | | | | | |
| DEACTIONS | All boorings 25 11 0 | | LOAD CASE(S) | Standard | | | | | | | | |
| (Ib) | Max Horiz 2-43 (LC | 10) 26-43 (I C 10) | | | | | | | | | | |
| (ui) - | Max Holiz 2-43 (LC | 10), 20–43 (LC 10) 100 (lb) or less at joint(s | 2) | | | | | | | | | |
| | 2 13 14 | 15 16 19 20 21 22 | 26 | | | | | | | | | |
| | Max Grav All reaction | ons 250 (lb) or less at i | pint | | | | | | | | | |
| | (s) 2, 12. | 14. 15. 16. 17. 19. 20. | 21. | | | | | | | | | |
| | 23, 26 ex | cept 13=414 (LC 21), | , | | | | | | | | | |
| | 22=402 (1 | LC 20) | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M | lax. Ten All forces 25 | 0 | | | | | | | | | |
| | (lb) or less except w | vhen shown. | | | | | | | | | | |
| WEBS | 3-22=-270/120, 11- | 13=-276/143 | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| Unbalance | ed roof live loads have | e been considered for t | his | | | | | | | | | |
| design. | | | | | | | | | | | | |
| 2) Wind: AS | CE 7-10; Vult=120mpl | h (3-second gust) | | | | | | | | | | |
| Vaso=95 | mpn; ICDL=6.0psi; BU | UL=6.0pst; n=25tt; | | | | | | | | | | |
| | directional and C C (| $Corpor(3) = 0.11 \oplus to$ | | | | | | | | | | |
| 2-1-0 Fr | terior (2) 2-1-0 to 12-1 | 1-8 Corner (3) 12-11-8 | to | | | | | | | | | |
| 15-11-8 | Exterior (2) 15-11-8 to | 25-11-0 zone: cantileve | ar ar | | | | | | | | | |
| left and ri | aht exposed : end ver | tical left and right | | | | | | | | | | |
| exposed: | C-C for members and | forces & MWFRS for | | | | | | | | | | |
| reactions | shown; Lumber DOL= | =1.60 plate grip | | | | | | | | | | |
| DOL=1.6 | 0 , | 1 51 | | | | | | | | | | |
| Truss de | signed for wind loads | in the plane of the truss | S | | | | | | | | | |

- only. For studs exposed to wind loads in the plane of the duss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 All plates are 2x4 MT20 unless otherwise indicated.
 Coble requires continuous batter where hearing
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) * 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 2, 19, 20, 21, 22, 16, 15, 14, 13, 2.

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------------------|-----|-----|--------------------------|
| Q-2402834 | B01 | Common Supported Gable | 1 | 1 | Job Reference (optional) |

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Scale = 1:38.9

3-6-0

3-9-3

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP | |
|----------------------------|---------------------------|--------------------------------|-----------------------------------|-------------------|--------------|----------------|----------|-------|--------|-----|---------------|----------|--|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.27 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 | |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.23 | Vert(CT) | n/a | - | n/a | 999 | | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.06 | Horz(CT) | 0.00 | 19 | n/a | n/a | | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | | | | | | Weight: 77 lb | FT = 20% | |
| | | | | | | | | | | | • | | |
| LUMBER | | | Provide med | hanical connec | tion (by oth | ers) of truss | to | | | | | | |
| TOP CHORD | 2x4 SP No.2 | | bearing plate | e capable of wit | thstanding 1 | 00 lb uplift a | at joint | | | | | | |
| BOT CHORD | 2x4 SP No.2 | | (S) Z, 8, 14, 0) This trucs is | 15, 11, 10, 2, 8. | cordonco w | ith the 2015 | | | | | | | |
| OTHERS | 2x4 SP No.2 *Excep | pt* ST1:2x4 SP No.3 | International | Residential Co | de sections | R502 11 1 | and | | | | | | |
| BRACING | | | R802 10 2 a | nd referenced s | standard AN | ISI/TPI 1 | anu | | | | | | |
| TOP CHORD | Structural wood she | eathing directly applied. | 10) This truss de | esian reauires t | hat a minim | um of 7/16" | | | | | | | |
| BOT CHORD | Rigid ceiling directly | y applied. | structural wo | od sheathing b | e applied d | irectly to the | top | | | | | | |
| REACTIONS | All bearings 18-11-0. | | chord and 1/ | 2" gypsum she | etrock be a | pplied direct | ly to | | | | | | |
| (lb) - | Max Horiz 2=-31 (LC | C 9), 16=-31 (LC 9) | the bottom of | hord. | | | | | | | | | |
| | Max Uplift All uplift 1 | 100 (lb) or less at joint(s | LOAD CASE(S) | Standard | | | | | | | | | |
| | 2, 8, 10, 1 | 11, 14, 15, 16, 19 | | | | | | | | | | | |
| | Max Grav All reaction | ons 250 (lb) or less at jo | pint | | | | | | | | | | |
| | (s) 11, 12 | , 14 except 2=256 (LC | 1), | | | | | | | | | | |
| | 8=256 (L0 | C(1), 10=453 (LC(1), | | | | | | | | | | | |
| | 10=400 (1 | LC 1), 10=200 (LC 1), | | | | | | | | | | | |
| FORCES | (lb) Max Comp /M | LOT) Jay Tan All forces 25(| n | | | | | | | | | | |
| FORCES | (lb) or less except w | /hen shown | 5 | | | | | | | | | | |
| WEBS | 3-15=-303/134 7-10 | 0=-303/134 | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| 1) Unbalanc | ed roof live loads have | e been considered for th | his | | | | | | | | | | |
| design. | | | | | | | | | | | | | |
| Wind: AS | CE 7-10; Vult=120mpl | h (3-second gust) | | | | | | | | | | | |
| Vasd=95 | mph; TCDL=6.0psf; BC | CDL=6.0psf; h=25ft; | | | | | | | | | | | |
| B=45ft; L | =24ft; eave=2ft; Cat. II | ; Exp B; Enclosed; | | | | | | | | | | | |
| MWFRS | (directional) and C-C (| Corner (3) -0-11-0 to | | | | | | | | | | | |
| 2-1-0, EX | terior (2) 2-1-0 to 9-5-8 | 3, Corner (3) 9-5-8 to | | | | | | | | | | | |
| IZ-0-0, E | abt expected : and yor | tical loft and right | | | | | | | | | | | |
| exposed. | C-C for members and | forces & MWFRS for | | | | | | | | | | | |
| reactions | shown I umber DOI = | =1 60 plate grip | | | | | | | | | | | |
| DOL=1.6 | 0 | hiere 3.ih | | | | | | | | | | | |
| 3) Truss de | signed for wind loads i | in the plane of the truss | 3 | | | | | | | | | | |
| only. For | studs exposed to wind | d (normal to the face), | | | | | | | | | | | |
| ana Ctan | dard Industry Cable Er | nd Dotoilo on applicable | | | | | | | | | | | |

- see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) 6) 7) Gable requires continuous bottom chord bearing.
- Cable studs spaced at 2-0-0 oc. * 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.

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 | |
|----------------------------------|-------------------|--------------------|---------------|-------------|--|---------|
| Q-2402834 | B02 | Common | 1 | 1 | Job Reference (optional) | |
| Carolina Structural Systems, Sta | ar, NC 27356, JSH | Run: 8.72 S Mar 20 | 2024 Print: 8 | 3.720 S Mar | 20 2024 MiTek Industries, Inc. Tue Dec 03 14:21:27 | Page: 1 |

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Scale = 1:38.9

3-9-3

Plate Offsets (X, Y): [3:0-0-0,0-0-0], [8:0-4-0,0-3-0]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|--|--|---|--|--|---|--------------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.43 | Vert(LL) | -0.08 | 8-14 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.71 | Vert(CT) | -0.24 | 8-14 | >927 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.15 | Horz(CT) | 0.04 | 6 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | | | | | | Weight: 77 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 Structural wood sho Rigid ceiling directly | eathing directly applied y applied. | This truss de structural we chord and 1. the bottom of LOAD CASE(S) | esign requires the bod sheathing be (2" gypsum shee hord. Standard | at a minim applied di trock be a | um of 7/16" rectly to the oplied direct | top ly to | | | | | |
| REACTIONS | (lb/size) 2=812/0- | 3-8, (min. 0-1-8), | | | | | | | | | | |
| | 6=812/0- | 3-8, (min. 0-1-8) | | | | | | | | | | |
| | Max Uplift 2=-28 (1 (| C 11) 6=-28 (I C 11) | | | | | | | | | | |
| FORCES | (lb) - Max Comp /N | lax Ten - All forces 25 | 0 | | | | | | | | | |
| ONOLO | (lb) or less except v | vhen shown. | • | | | | | | | | | |
| FOP CHORD | 2-15=-1664/118, 3- | 15=-1639/136, | | | | | | | | | | |
| | 3-16=-1280/72, 4-1 | 6=-1267/85, | | | | | | | | | | |
| | 4-17=-1267/85, 5-1 | 7=-1280/72, | | | | | | | | | | |
| | 5-18=-1639/135, 6- | 18=-1664/118 | | | | | | | | | | |
| | 2-8=-74/1555, 6-8= | -82/1555 | | | | | | | | | | |
| | 4-0=0/020, 0-0=-40 | 0/103, 3-6=-450/103 | | | | | | | | | | |
| 1) Unbalance | ed roof live loads hav | e been considered for t | thie | | | | | | | | | |
| design | | e been considered for | | | | | | | | | | |
| 2) Wind: ASC | CE 7-10: Vult=120mp | h (3-second aust) | | | | | | | | | | |
| Vasd=95m | nph; TCDL=6.0psf; B | CDL=6.0psf; h=25ft; | | | | | | | | | | |
| B=45ft; L= | =24ft; eave=4ft; Cat. I | I; Exp B; Enclosed; | | | | | | | | | | |
| MWFRS (| directional) and C-C I | Exterior (2) -0-11-0 to | | | | | | | | | | |
| 2-1-0, Inte | erior (1) 2-1-0 to 9-5-8 | , Exterior (2) 9-5-8 to | | | | | | | | | | |
| 12-5-8, Int | terior (1) 12-5-8 to 19 | -10-0 zone; cantilever l | eft | | | | | | | | | |
| and right e | exposed ; end vertica | l left and right exposed | ;C- | | | | | | | | | |
| C for men | nd forces & M | WERS for reactions | | | | | | | | | | |
| snown; Lu | imper DOL=1.60 plate | e grip DOL=1.60 | of | | | | | | | | | |
| on the hot | tom chord in all areas | ioi a live load of 20.0p | 51 | | | | | | | | | |

on the bottom chord in all areas where a re tangi 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2 and 28 lb uplift at joint 6.
- 5) 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.

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|-------------------------|-----|-----|--------------------------|
| Q-2402834 | C01 | Common Structural Gable | 1 | 1 | Job Reference (optional) |

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Scale = 1:49.4

DOL=1.60

Plate Offsets (X, Y): [12:0-1-0,Edge], [15:0-4-0,0-3-0]

| - (| , , , , , , , , , , , , , , , , , , , |],[,] | | | | | | | | | | |
|---|---|---|---|--|---|--|-------------------------------|-------|--------|-----|----------------|----------|
| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.78 | Vert(LL) | -0.08 | 15-19 | >999 | 240 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.82 | Vert(CT) | -0.25 | 15-19 | >909 | 180 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.13 | Horz(CT) | 0.05 | 24 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | | | | | | Weight: 118 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD WEBS | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 | | Truss desig only. For str see Standar or consult qu All pletee pr | ned for wind loads uds exposed to win d Industry Gable E ualified building des | in the p d (norm nd Deta signer a: | lane of the tru al to the face ils as applica s per ANSI/TF | uss), ble, PI 1. | | | | | |
| OTHERS | 2x4 SP No.3 | | All plates an Gable stude | e 2X4 IVI i 20 uniess spaced at 2-0-0 or | otherwi | se muicaleu. | | | | | | |
| BRACING TOP CHORD BOT CHORD JOINTS | Structural wood she Rigid ceiling directly 1 Brace at Jt(s): 6, 9, 11 | eathing directly applied. y applied. | 6) * This truss on the botto 3-06-00 tall chord and a 7) Provide med | has been designed m chord in all areas by 2-00-00 wide wi ny other members. chanical connectior | , for a liv s where Il fit betv i (by oth | e load of 20.0 a rectangle veen the botto ers) of truss t | 0psf om to | | | | | |
| REACTIONS (lb) - | All bearings 5-8-0. ex Max Horiz 2=39 (LC Max Uplift All uplift 1 2, 12, 14, Max Grav All reactio (s) excep (LC 1), 14 1) 24=32 | <pre>kcept 2=0-3-8 10) 100 (lb) or less at joint(s 20, 24 ons 250 (lb) or less at joint(s t 2=822 (LC 1), 12=328 4=905 (LC 1), 20=905 (8 (LC 1), 20=905 (</pre> | bearing plat (s) 2, 14, 12) 8) This truss is Internationa int R802.10.2 a 9) This truss dr _C structural wo chord and 1 | e capable of withsta , 14, 12. designed in accord I Residential Code nd referenced stan esign requires that ood sheathing be a /2" gypsum sheetro | anding 1 dance w sections dard AN a minim pplied d ock be a | 00 lb uplift at ith the 2015 \$R502.11.1 a ISI/TPI 1. um of 7/16" irectly to the t pplied directly | t joint Ind top v to | | | | | |
| FORCES | (lb) - Max. Comp./M | lax. Ten All forces 250 | the bottom of 10) Graphical p | hord. Irlin representation | does no | ot depict the s | size | | | | | |
| TOP CHORD | (ib) of less except w 2-27=-1692/103, 3-: 3-28=-1302/77, 4-2: 8-29=-271/66, 10-2: 4-6=-1027/45, 6-7=: 9-11=-1196/105, 11- | 71en 510wn. 27=-1667/120, 8=-1232/78, 4-5=-250/6 9=-290/59, 12-30=-303, -1052/52, 7-9=-1217/10 -14=-1323/141 | or the orient 6, bottom chor 0, LOAD CASE(S) 4, | ation of the purlin a d. Standard | long the | top and/or | | | | | | |
| BOT CHORD | 2-15=-59/1581, 14- | 15=-57/1402 | | | | | | | | | | |
| WEBS | 10-11=-402/112, 4-1 7-15=-282/92 | 15=0/528, 3-15=-443/87 | , | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Unbalance | ed roof live loads have | e been considered for th | nis | | | | | | | | | |
| design. 2) Wind: ASC Vasd=95m B=45ft; L= MWFRS (i 2-1-0, Inte to 15-1-12 left and rig exposed;C reactions 2 POL 0 0 | CE 7-10; Vult=120mpl nph; TCDL=6.0psf; B0 -24ft; eave=4ft; Cat. II directional) and C-C E rior (1) 2-1-0 to 12-1- 2, Interior (1) 15-1-12 i pht exposed ; end vert 2-C for members and shown; Lumber DOL= | h (3-second gust) CDL=6.0psf; h=25ft; ; Exp B; Enclosed; Exterior (2) -0-11-0 to 12, Exterior (2) 12-1-12 to 25-2-8 zone; cantilev tical left and right forces & MWFRS for =1.60 plate grip | er | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------|-----|-----|--------------------------|
| Q-2402834 | C02 | Common | 2 | 1 | Job Reference (optional) |

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-0-11-P 25-2-8 <u>5-6-4</u> 5-6-4 <u>12-1-12</u> 6-7-8 <u>18-9-4</u> 6-7-8 24-3-8 5-6-4 o-11-o 4x5 4 4¹² 18 19 3x4 3x4 3 4-4-12 5 WЗ 17 20 11/1 W2 NZ 11/1 2 6 ᆔ 0-4-3 B1 B2 8 Ř 10 9 2x4 5x8 2x4 3x4 3x4 5-6-4 5-6-4 <u>12-3-8</u> 6-9-4 18-9-4 6-5-12 24-3-8 5-6-4

Scale = 1:47

4-7-15

Plate Offsets (X, Y): [9:0-2-12,0-3-0]

| Load | ling | | (psf) | Spacing | | 2-0-0 | CSI | 0.54 | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---|---|--|--|--|---|--|--|--|--|--------------------|--------------|--------------|------------|----------------|----------|
| TCD | _ (root) _ | | 20.0 | Lumber DOL | | 1.00 | BC | 0.51 | Vert(LL) Vert(CT) | -0.06 -0.15 | 9-10 9-10 | >999 >999 | 240 180 | MT20 | 244/190 |
| BCLI BCD | - L | | 0.0* 10.0 | Rep Stress Incr Code | IRC201 | YES 5/TPI2014 | WB Matrix-AS | 0.72 | Horz(CT) | 0.03 | 8 | n/a | n/a | Weight: 107 lb | FT = 20% |
| LUM TOP BOT WEB BRA TOP BOT | BER CHORD CHORD S CING CHORD CHORD | 2x4 SP N 2x4 SP N 2x4 SP N Structura Rigid ceil | o.2 o.2 o.2 *Excep I wood she ing directly | ot* W1:2x4 SP No.3 eathing directly applied. / applied. | 5) - 6) - 5 (t t LOA | This truss is International R802.10.2 a This truss de structural wo chord and 1/ the bottom c D CASE(S) | designed in acc Residential Co nd referenced s sign requires th od sheathing b 2" gypsum she hord. Standard | cordance wi ode sections standard AN hat a minim le applied di etrock be ap | ith the 2015 R502.11.1 a ISI/TPI 1. um of 7/16" irectly to the pplied directl | and top y to | | | | | |
| REA | CTIONS | (Ib/size) Max Horiz Max Uplift Max Grav | 2=763/0-3 6=129/0-3 8=1161/0 2=-39 (LC 2=-29 (LC (LC 11) 2=763 (LC 8=1161 (L | 3-8, (min. 0-1-8), 3-8, (min. 0-1-8), -3-8, (min. 0-1-8) 2 9) 2 11), 6=-28 (LC 11), 8= C 1), 6=175 (LC 21), -C 1) | -3 | | | | | | | | | | |
| FOR | CES | (lb) - Max | . Comp./M | ax. Ten All forces 250 |) | | | | | | | | | | |
| ТОР | CHORD | (ID) or les 2-17=-163 3-18=-79 5-19=-803 | s except w 38/82, 3-17 7/75, 4-18= 3/77 5-20= | nen snown. 7=-1566/95, =-728/88, 4-19=-734/90 =0/341_6-20=-9/286 | , | | | | | | | | | | |
| вот | CHORD | 2-10=-43 | 1531, 9-10 38 | 0=-43/1531, 8-9=-271/3 | 8, | | | | | | | | | | |
| WEB | S | 5-8=-1012 | 2/119, 5-9= | 10/1002, 3-9=-890/71 | | | | | | | | | | | |
| NOT | ES | | | | | | | | | | | | | | |
| 1) L d 2) V E N 2 to 16 e r c C 3) * 3 c F b 2 | Inbalance esign. Vind: ASC fasd=95m =45ft; L= IWFRS (t -1-0, Inte o 15-1-12 eft and rig xposed; C eactions s 00L=1.60 This trus: n the bott -06-00 ta hord and rovide m earing pla | ed roof live CE 7-10; VL ph; TCDL= :24ft; eave= directional) rior (1) 2-1- , Interior (1 pht exposed -C for men shown; Lun s has been tom chord i II by 2-00-0 any other i echanical c | loads have It=120mpl 6.0psf; BC -4ft; Cat. II and C-CE 0 to 12-1-) 15-1-12 t 1; end vert nbers and nber DOL= designed n all areas 10 wide will members. connection a for withsta | a been considered for th n (3-second gust) CDL=6.0psf; h=25ft; ; Exp B; Enclosed; :xterior (2) -0-11-0 to 12, Exterior (2) 12-1-12 to 25-2-8 zone; cantilevi- tical left and right forces & MWFRS for 1.60 plate grip for a live load of 20.0ps where a rectangle I fit between the bottom (by others) of truss to inding 28 lb uplift at join | er f | | | | | | | | | | |
| 6 | , 3 lb upli | ft at joint 8 | and 29 lb | uplift at joint 2. | | | | | | | | | | | |

| Job | Truss | | | Qty | Ply | | VASQUEZ | :: 2024-S | AN-06 | 53 | | | | |
|---|-----------------------|--|--------------------------|----------------------------|---|--------------------------|----------------------------|------------------|---------------------------|--------------------------|-------------------|---------------------------------------|--------------------|-----------------------|
| Q-2402834 | C03 | | | 1 | 3 | | Job Refere | ence (opti | ional) | | | | | |
| Carolina Structural Systems, St | ar, NC 27 | 356, JSH | | | Run: 8.72 S Mar 20 | 2024 Print | :: 8.720 S M 9:TYu3FIZz | Mar 20 Rgtkj) | 0 2024 MiTe XVul110Ywy | k Industrie vCjnO-Rbn | s, Inc. h0kXif | Tue Dec 03 14:21:2 AMVIfBpCZWZg_tA | 28 VWEODv6DC | Page: ´ Si9t3yCfp5 |
| | | 5-6-4 | | , | 12-1-12 | | | l | | 1 | 18-11- | 0 | | |
| | 1 | 5-6-4 | | | 6-7-8 | | | 1 | | | 6-9-4 | | 1 | |
| | | | | | | | | 4x5 | | | | | | |
| | | | | | | | | 3 | | | | | | |
| | | | | 12 | | _ | \square | | \sim | _ | | | | |
| | | | | 41 | | \bigcirc | | | | 12 | | | | |
| N | | | 2 | 3x6 | TL | | | W3 | | | | | 4x6 | |
| 4 | | | 2 | $\overline{\langle}$ | | | | | | | | | | <u> </u> |
| 4 | | | | | | | | | | _ | | W2 | \rightarrow | Ξ |
| 1 | 11 | | v' | (| | | | | | | | | W1 | 2-1-1 |
| 0-4-3 | A | | | B1 | | • | | | $\overline{\Pi}$ | ΠΓ | B2 | | - 5 | |
| | | 12 | 13 8 | 3 14 | 4 15 | 7 | 16 | 6 | 17 | 18 | | 19 | X | |
| | 4x6 | | 3 | x6 | | M18AHS 4 | x12 | 8x8 | | | | | 4x5 | |
| | 5 | x5 HUS26 | HUS26 | HUS | 26 HUS26 | н | JS26 | F | HUS26 | HUS2 | 26 | HUS26 | | |
| | HUS | 26 | | | | | | | | | | | | |
| | | 5-6-4 | | | 12-1-12 | | | | | 1 | 18-11- | 0 | | |
| Scale = 1:36.9 | 1 | 5-6-4 | | | 6-7-8 | | | 1 | | | 6-9-4 | | 1 | |
| Plate Offsets (X, Y): [1:Edg | e,0-0-8], | [1:0-9-4,0-1-10], [5:E | dge,0-2-0], [| 6:0-4-0,0- | 4-12], [8:0-4-4,0-1-8] | | | | | | | | | |
| Loading | (psf) | Spacing | | 2-0-0 | CSI | | EFL | | in (loc) | l/defl | L/d | PLATES | GRIP | |
| TCDL (roof) | 20.0 10.0 | Lumber DOL | | 1.00 1.15 | BC | 0.84 V€ 0.65 V€ | ert(LL) ert(CT) | -0.1 -0.3 | 15 6-8 31 6-8 | >999 >716 | 240 180 | M120 M18AHS | 244/190 186/179 | |
| BCLL | 0.0* 10.0 | Rep Stress Incr | IRC2015/ | NO 12014 | WB Matrix-MS | 0.55 Ho | orz(CT) | 0.0 | 04 5 | n/a | n/a | Weight: 310 lb | FT = 20% | |
| | 10.0 | oode | | 11 12014 | | | | | | | | Weight. 010 lb | 11-2070 | |
| LUMBER TOP CHORD 2x4 SP No. | 2 | | 4) Wi Va | nd: ASCE sd=95mpł | 7-10; Vult=120mph (n; TCDL=6.0psf; BCE | 3-second L=6.0ps | f; h=25ft; | | | | | | | |
| BOT CHORD 2x6 SP DS WEBS 2x4 SP No | S 2 *Excer | ot* W1·2x4 SP No 3 | B= MV | 45ft; L=24 VFRS (dir | ft; eave=4ft; Cat. II; I ectional); cantilever l | Exp B; Er eft and rig | iclosed; ght expos | sed ; | | | | | | |
| BRACING | | | en . pla | d vertical l te grip DC | eft and right exposed 0L=1.60 | l; Lumbe | DOL=1. | 60 | | | | | | |
| TOP CHORD Structural v 4-11-2 oc p | vood she urlins, e | eathing directly applie except end verticals. | d or 5) All | plates are | MT20 plates unless | otherwis | e indicate | ed. Opef | | | | | | |
| BOT CHORD Rigid ceiling bracing. | g directly | applied or 10-0-0 oc | on | the bottor | n chord in all areas v | where a re | ectangle | .opsi | | | | | | |
| REACTIONS (lb/size) 1 | =5749/0 | -3-8, (min. 0-1-15), | 3-0 ch | ord and ar | y 2-00-00 wide will f iy other members. | it betwee | n the bott | tom | | | | | | |
| 5 Max Horiz 1 | =5438/0 =74 (LC | -3-8, (min. 0-1-13) 6) | 7) Th Int | is truss is ernational | designed in accorda Residential Code se | nce with t ctions R5 | he 2015 502.11.1 a | and | | | | | | |
| FORCES (lb) - Max. (| Comp./M | ax. Ten All forces 2 | 50 R8 8) Us | 02.10.2 a e Simpsol | nd referenced standa Strong-Tie HUS26 | ard ANSI/ (14-10d (| TPI 1. Girder 4-' | 10d | | | | | | |
| TOP CHORD 1-2=-13851 | /0, 2-3=- | 7349/0, 3-4=-7353/0 | Tru 0-1 | uss) or equ | uivalent spaced at 2- | 3-8 oc m | ax. startin | ng at | | | | | | |
| BOT CHORD 1-11=0/130 | J 40, 1-11= | =0/13067, 1-12=0/130 |)75, A0 | 3 (1 ply 2) | (4 SP), A04 (1 ply 2x | 4 SP) to 1 | front face | e of | | | | | | |
| 12-13=0/13 8-14=0/130 | 075, 8-1 75, 14-1 | 3=0/13075, 5=0/13075, | 9) Fill | all nail ho | i. Iles where hanger is | in contac | t with lum | nber. | | | | | | |
| 7-15=0/130 6-17=0/399 | 75, 7-16 . 17-18= | =0/13075, 6-16=0/13 0/399, 18-19=0/399, | 075, LOAD 1) D | CASE(S) ead + Roo | Standard of Live (balanced): Lu | umber Inc | rease=1. | 15. | | | | | | |
| 5-19=0/399 | 2_8-0/2 | 317 2-6= 6407/0 | P | ate Increa | ise=1.00 | | | -, | | | | | | |
| 4-6=0/6755 | , 2-0-0/0 | 5517, 2-0040770, | 0 | Vert: 1-3 | =-60, 3-4=-60, 1-5=-2 | 20 | | | | | | | | |
| 1) 3-ply truss to be connected | cted toge | ether with 10d (0.131 | C 'x3") | oncentrate Vert: 11= | ed Loads (lb) -1017 (F), 12=-1016 | (F), 13=- | 1016 (F), | | | | | | | |
| nails as follows: Top chords connected : | as follow | s 2x4 - 1 row at 0-4- |) | 14=-1106 (F), 18=- | (F), 15=-1106 (F), 1 1106 (F), 19=-1106 (F | 6=-1106 =) | (F), 17=- <i>1</i> | 1106 | | | | | | |
| OC. Bottom chords connect | ed as fel | lowe: 2x6 2 rowo | | . ,, - | (), (| , | | | | | | | | |
| staggered at 0-6-0 oc. | | 10W3. 2AU - 2 10W5 | | | | | | | | | | | | |
| 2) All loads are considered | ows: 2x4 d equally | - 1 row at 0-9-0 oc. applied to all plies, | | | | | | | | | | | | |
| except if noted as front CASE(S) section. Plv to | (F) or ba | ack (B) face in the LO nections have been | AD | | | | | | | | | | | |
| provided to distribute of | nly loads | noted as (F) or (B), | | | | | | | | | | | | |
| 3) Unbalanced roof live lo | ads have | e been considered for | this | | | | | | | | | | | |
| design. | | | | | | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------|-----|-----|--------------------------|
| Q-2402834 | V01 | Valley | 1 | 1 | Job Reference (optional) |

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Scale = 1:40.8

| | (nef) | Spacing | 2_0_0 | CSI | | DEEL | in | (loc) | l/dofl | l /d | | GRIP |
|---|----------------------------|-------------------------------------|------------------|----------------------|-------------|-----------------|------|-------|--------|------|---------------|----------|
| TCLL (roof) | (psi) 20.0 | Plate Grin DOI | 1 00 | TC | 0 49 | Vert(LL) | n/a | (100) | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.39 | Vert(TL) | n/a | - | n/a | 999 | 11120 | 211/100 |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.09 | Horiz(TL) | 0.01 | 9 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | | | | | | Weight: 74 lb | FT = 20% |
| LUMBER | | | 6) This truss is | designed in accorda | ance w | ith the 2015 | | | | | | |
| TOP CHORD | 2x4 SP No.2 | | International | Residential Code s | ections | 8 R502.11.1 a | ind | | | | | |
| BOICHORD | 2x4 SP No.2 | ** ST2-274 SD No 2 | 7) This truss de | sign requires that a | minim | um of 7/16" | | | | | | |
| DINERS | 2X4 SP NO.3 EXCEL | 01 512.2X4 5P NO.2 | structural wo | od sheathing be ap | plied d | irectly to the | top | | | | | |
| | Structural wood sho | athing directly applied | chord and 1 | 2" gypsum sheetroo | , k be a | pplied directly | y to | | | | | |
| BOT CHORD | Rigid ceiling directly | annlied | the bottom of | hord. | | | | | | | | |
| | | applica. | LOAD CASE(S) | Standard | | | | | | | | |
| REACTIONS | All bearings 22-0-0. | · 0) | | | | | | | | | | |
| - (di) | Max Unlift All unlift 1 | , 9) 00 (lb) or less at ioint(s' |) | | | | | | | | | |
| | 6. 9 | |) | | | | | | | | | |
| | Max Grav All reactio | ns 250 (lb) or less at jo | int | | | | | | | | | |
| | (s) 1, 5 ex | cept 6=562 (LC 21), | | | | | | | | | | |
| | 7=421 (LC | C 1), 9=562 (LC 20) | | | | | | | | | | |
| FORCES | (lb) - Max. Comp./M | ax. Ten All forces 250 | | | | | | | | | | |
| | (ID) or less except w | nen snown. 107/403 2-1537/38 | 1 | | | | | | | | | |
| | 3-15=-28/442, 3-16= | -26/442. 4-16=-35/381 | ı, | | | | | | | | | |
| | 4-18=-95/493, 17-18 | 3=-105/427, | 3 | | | | | | | | | |
| | 5-17=-113/417 | | | | | | | | | | | |
| BOT CHORD | 1-9=-405/239, 8-9=- | 405/143, 7-8=-405/143 | , | | | | | | | | | |
| | 6-7=-405/143, 5-6=- | 405/143 | | | | | | | | | | |
| NOTES | 3-7=-411/124, 2-9=- | 303/104, 4-0=-303/104 | | | | | | | | | | |
| 1) Unbalance | no flive loads have | been considered for th | nis | | | | | | | | | |
| desian. | | | 10 | | | | | | | | | |
| 2) Wind: ASC | CE 7-10; Vult=120mph | n (3-second gust) | | | | | | | | | | |
| Vasd=95m | ph; TCDL=6.0psf; BC | DL=6.0psf; h=25ft; | | | | | | | | | | |
| B=45ft; L= | 24ft; eave=2ft; Cat. II; | ; Exp B; Enclosed; | | | | | | | | | | |
| 3_0_12 Ev | terior (2) 3_0_12 to 11. | -0.12 Corper (3) 11-0-1 | 12 | | | | | | | | | |
| to 14-0-12 | Exterior (2) 14-0-12 | to 22-0-12 zone: | 12 | | | | | | | | | |
| cantilever | left and right exposed | ; end vertical left and | | | | | | | | | | |
| right expos | sed;C-C for members | and forces & MWFRS | | | | | | | | | | |
| for reaction | ns shown; Lumber DC | DL=1.60 plate grip | | | | | | | | | | |
| 2) Coble 727 | | m abord boaring | | | | | | | | | | |
| a) Sable required 4) * This true | s has been designed : | for a live load of 20 Ope | f | | | | | | | | | |
| on the both | tom chord in all areas | where a rectangle | | | | | | | | | | |
| 3-06-00 ta | Il by 2-00-00 wide will | fit between the bottom | | | | | | | | | | |

chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint (s) 9, 6.

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------|-----|-----|--------------------------|
| Q-2402834 | V02 | Valley | 1 | 1 | Job Reference (optional) |

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Scale = 1:34.6

3-0-4

Plate Offsets (X, Y): [3:0-2-0,Edge]

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|--|--|--|---|---|---|---|--------------------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.59 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.38 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL BCDL | 0.0* 10.0 | Rep Stress Incr Code | YES IRC2015/TPI2014 | WB Matrix-AS | 0.10 | Horiz(TL) | 0.01 | 5 | n/a | n/a | Weight: 58 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD | 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sł Rigid ceiling direct | neathing directly applied. Iy applied. | 6) This truss is International R802.10.2 a 7) This truss de structural wc chord and 1/, the bottom c LOAD CASE(S) | designed in acc Residential Coo nd referenced st sign requires th ood sheathing be 2" gypsum shee hord. Standard | ordance w de sections andard AN at a minim applied d strock be a | ith the 2015 R502.11.1 a ISI/TPI 1. um of 7/16" irectly to the pplied directly | and top y to | | | | | |
| REACTIONS (lb) - | All bearings 18-0-0. Max Horiz 1=26 (Li Max Uplift All uplift 6, 8 Max Grav All react (s) 1, 5 6 8=594 (j | C 10) 100 (lb) or less at joint(s ions 250 (lb) or less at jc except 6=594 (LC 21), (C 20) |) int | | | | | | | | | |
| FORCES | (lb) - Max. Comp./ | Max. Ten All forces 250 |) | | | | | | | | | |
| TOP CHORD | 1-13=-293/362, 13 2-14=-112/438, 2-3 4-15=-111/438, 15 5-16=-129/362 | -14=-121/368, 3=-45/331, 3-4=-44/331, -16=-120/368, | | | | | | | | | | |
| BOT CHORD | 1-8=-349/271, 7-8 5-6=-349/159 | =-349/159, 6-7=-349/159 |), | | | | | | | | | |
| WEBS | 2-8=-457/206, 4-6 | =-457/206 | | | | | | | | | | |
| NOTES | | | | | | | | | | | | |
| 1) Unbalance | ed roof live loads ha | ve been considered for the | his | | | | | | | | | |
| 2) Wind: ASC Vasd=95m B=45ft; L= MWFRS (r 3-0-12, Ex 12-0-12, E left and rig exposed;C reactions s SCI = 1 60 | CE 7-10; Vult=120m ph; TCDL=6.0psf; E 24ft; eave=2ft; Cat. directional) and C-C tterior (2) 3-0-12 to S xixterior (2) 12-0-12 t tht exposed ; end ve C-C for members and shown; Lumber DOL | oh (3-second gust) BCDL=6.0psf; h=25ft; II; Exp B; Enclosed; Corner (3) 0-0-12 to 0-0-12, Corner (3) 9-0-12 o 18-0-12 zone; cantilevor trical left and right d forces & MWFRS for =1.60 plate grip | to er | | | | | | | | | |
| a) Gable required 4) * This trustion a) on the both a) 3-06-00 ta | uires continuous bot s has been designe tom chord in all area Il by 2-00-00 wide w | tom chord bearing. d for a live load of 20.0ps as where a rectangle ill fit between the bottom | sf | | | | | | | | | |
| 5) Provide m bearing pla (s) 8, 6. | echanical connectio ate capable of withs | n (by others) of truss to tanding 100 lb uplift at jo | int | | | | | | | | | |

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 | |
|----------------------------------|------------------|--------------------|---------------|-------------|--|---------|
| Q-2402834 | V03 | Valley | 1 | 1 | Job Reference (optional) | |
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14-0-0

0-10-7



This truss design requires that a minimum of 7/16"

structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

TOP CHORD Structural wood sheathing directly applied. BOT CHORD Rigid ceiling directly applied.

2x4 SP No.3

REACTIONS (lb/size) 1=72/14-0-0, (min. 0-1-8), 3=72/14-0-0, (min. 0-1-8), 4=977/14-0-0, (min. 0-1-8) Max Horiz 1=-20 (LC 9) Max Uplift 1=-16 (LC 21), 3=-16 (LC 20), 4=-11 (LC 11) 1=124 (LC 20), 3=124 (LC 21), Max Grav

4=977 (LC 1) FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-9=-200/553, 9-10=-177/567,

- 2-10=-175/629, 2-11=-174/629 11-12=-175/567, 3-12=-184/553 BOT CHORD 1-4=-537/220, 3-4=-537/220 2-4=-755/319
- WEBS

2-4-4

TCDL

BCLL

BCDL

OTHERS

BRACING

- NOTES
- 1) Unbalanced roof live loads have been considered for this design. 2)

Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) 0-0-12 to 3-0-12, Exterior (2) 3-0-12 to 7-0-12, Corner (3) 7-0-12 to 10-0-12, Exterior (2) 10-0-12 to 14-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Gable requires continuous bottom chord bearing.

* This truss has been designed for a live load of 20.0psf 4) 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.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 1, 16 lb uplift at joint 3 and 11 lb uplift at joint 4.

LOAD CASE(S) Standard

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------|-----|-----|--------------------------|
| Q-2402834 | V04 | Valley | 1 | 1 | Job Reference (optional) |

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Scale = 1:25.5

| Loading TCLL (roof) | | (psf) 20.0 | Spacing Plate Grip DOL | 2-0-0 1.00 1.15 | CSI TC BC | 0.24 | DEFL Vert(LL) | in n/a | (loc) - | l/defl n/a | L/d 999 | PLATES MT20 | GRIP 244/190 |
|--|---|---|--|---|---|---|--|--------------|------------|---------------|------------|----------------|------------------------|
| BCLL BCDL | | 0.0* 10.0 | Rep Stress Incr Code | YES IRC2015/TPI2014 | WB Matrix-AS | 0.09 | Horiz(TL) | 0.00 | 4 | n/a | 999 n/a | Weight: 29 lb | FT = 20% |
| LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD | 2x4 SP No 2x4 SP No 2x4 SP No Structural Rigid ceili | o.2 o.2 o.3 wood she ng directly | eathing directly applied. v applied. | This truss de structural we chord and 1, the bottom of LOAD CASE(S) | esign requires t bod sheathing b /2" gypsum she /hord. Standard | hat a minim be applied d eetrock be a | um of 7/16" irectly to the pplied direct | top ly to | | | | | |
| REACTIONS | (Ib/size) Max Horiz Max Uplift Max Grav | 1=84/10-0 3=84/10-0 4=632/10- 1=-14 (LC 1=-1 (LC (LC 11) 1=113 (LC 4=632 (LC | 0-0, (min. 0-1-8), 0-0, (min. 0-1-8), -0-0, (min. 0-1-8) 2 9) 11), 3=-1 (LC 11), 4=-5 C 20), 3=113 (LC 21), C 1) | | | | | | | | | | |
| FORCES | (lb) - Max | Comp./M | ax. Ten All forces 250 |) | | | | | | | | | |
| TOP CHORD | (ID) OT IES: 1-9=-177/ | 303, 2-9=- | 52/345, 2-10=-50/345, | | | | | | | | | | |
| 3-10=-56/303 BOT CHORD 1-4=-287/162, 3-4=-287/80 | | | | | | | | | | | | | |
| WEBS | 2-4=-460/ | 121 | | | | | | | | | | | |
| 1) Unbalance | ed roof live l | oads have | e been considered for th | nis | | | | | | | | | |
| design. 2) Wind: ASC Vasd=95m B=45ft; L= MWFRS (i 3-0-12, Int to 8-3-15, left and rig exposed;C reactions s DOL=1.60 | CE 7-10; Vu nph; TCDL= :24ft; eave= directional) :erior (1) 3-0 Interior (1) ;ht exposed C-C for men shown; Lum | It=120mph 6.0psf; BC 4ft; Cat. II and C-C E 0-12 to 5-0 8-3-15 to 1 ; end vert ibers and iber DOL= | n (3-second gust) CDL=6.0psf; h=25ft; ; Exp B; Enclosed; :xterior (2) 0-0-12 to I=12, Exterior (2) 5-0-12 10-0-12 zone; cantileve ical left and right forces & MWFRS for 1.60 plate grip | r | | | | | | | | | |
| Gable requires continuous bottom chord bearing. * 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 | | | | ſ | | | | | | | | | |

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 1, 1 lb uplift at joint 3 and 5 lb uplift at joint 4. This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and 5)
- 6) R802.10.2 and referenced standard ANSI/TPI 1.

| Job | Truss | Truss Type | Qty | Ply | VASQUEZ: 2024-SAN-063 |
|-----------|-------|------------|-----|-----|--------------------------|
| Q-2402834 | V05 | Valley | 1 | 1 | Job Reference (optional) |

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3x4







Scale = 1:21.4

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

| Loading | (psf) | Spacing | 2-0-0 | CSI | | DEFL | in | (loc) | l/defl | L/d | PLATES | GRIP |
|-------------|-------|-----------------|-----------------|-----------|------|-----------|------|-------|--------|-----|---------------|----------|
| TCLL (roof) | 20.0 | Plate Grip DOL | 1.00 | TC | 0.27 | Vert(LL) | n/a | - | n/a | 999 | MT20 | 244/190 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.25 | Vert(TL) | n/a | - | n/a | 999 | | |
| BCLL | 0.0* | Rep Stress Incr | YES | WB | 0.00 | Horiz(TL) | 0.01 | 3 | n/a | n/a | | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-AS | | | | | | | Weight: 16 lb | FT = 20% |

LUMBER

TOP CHORD
 2x4 SP No.2

 BOT CHORD
 2x4 SP No.2

 BRACING
 TOP CHORD

 Structural wood sheathing directly applied.

 BOT CHORD
 Rigid ceiling directly applied.

| | • | • | - | |
|-----------|-------------|--------------------|----------------|-----------------------------------|
| REACTIONS | (lb/size) | 1=240/0 3=240/0 | 6-0-0 6-0-0 | , (min. 0-1-8), , (min. 0-1-8) |
| | Max Horiz | 1=8 (LC | C 10) | |
| | Max Uplift | 1=-2 (L | C 11 |), 3=-2 (LC 11) |
| FORCES | (lb) - Max | . Comp. | /Max | . Ten All forces 250 |
| | (lb) or les | s except | whe | en shown. |

TOP CHORD 1-2=-578/177, 2-3=-430/147 BOT CHORD 1-3=-157/540

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- * 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 2 lb uplift at joint 1 and 2 lb uplift at joint 3.
- 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.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard