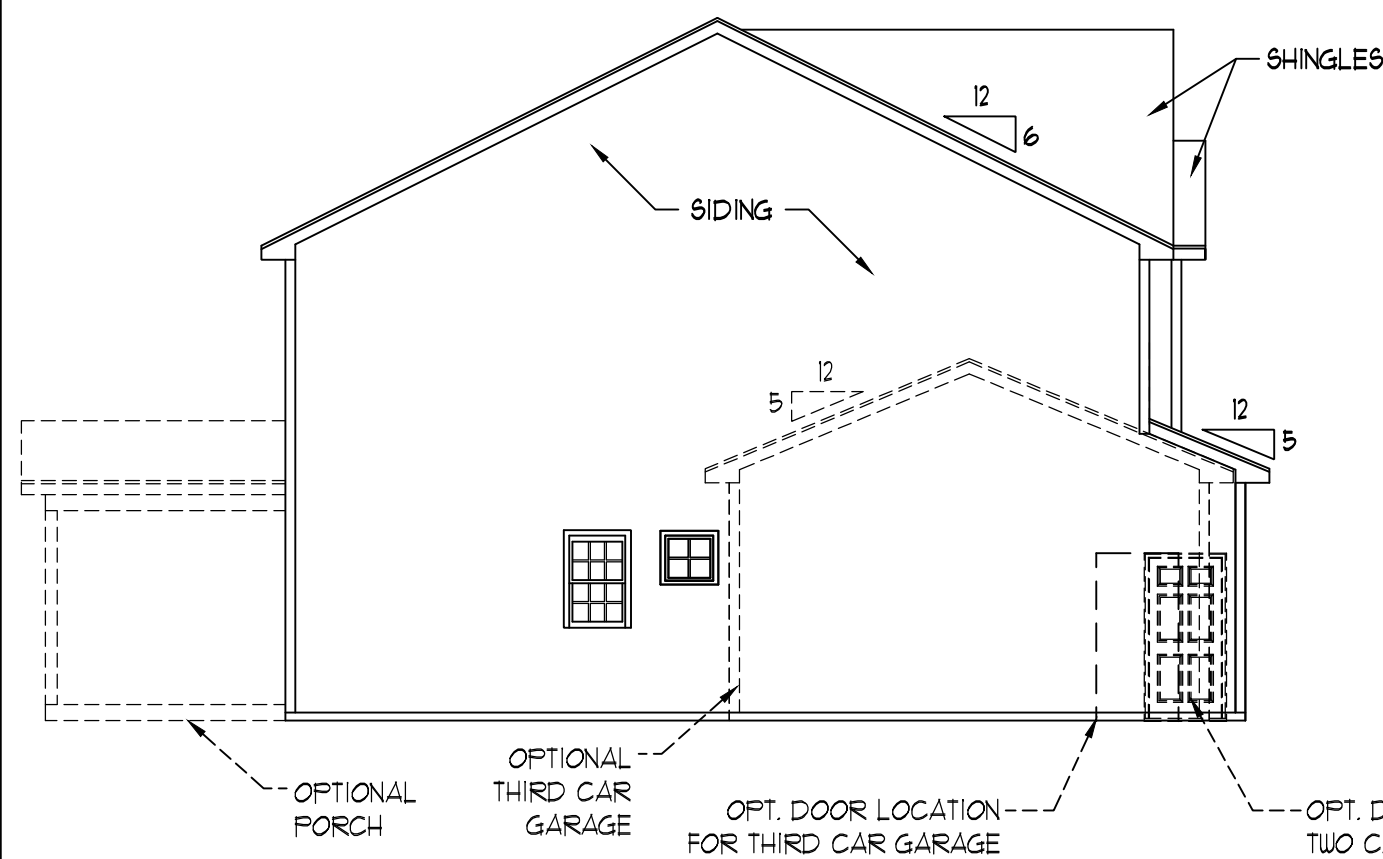


PLANS DESIGNED TO THE
2018 NORTH CAROLINA STATE
RESIDENTIAL BUILDING CODE.

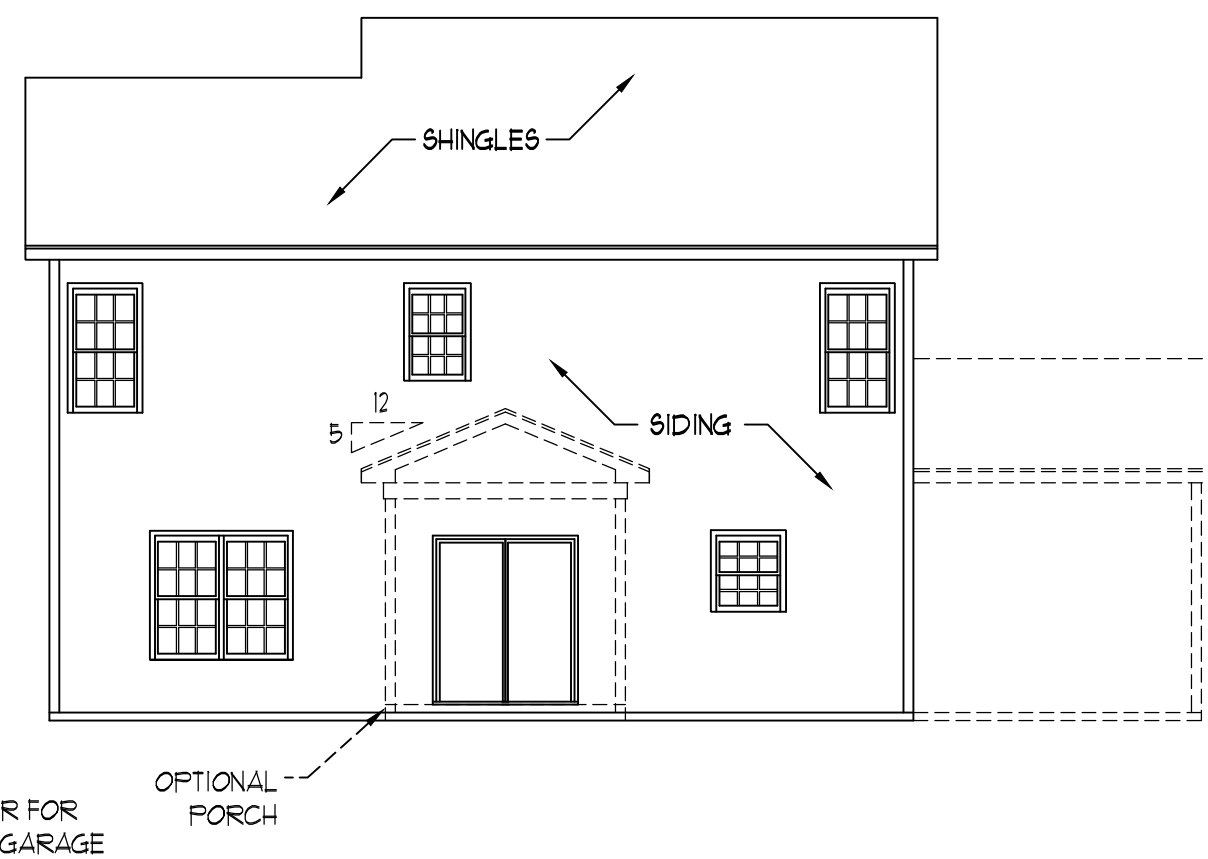


FRONT ELEVATION-A

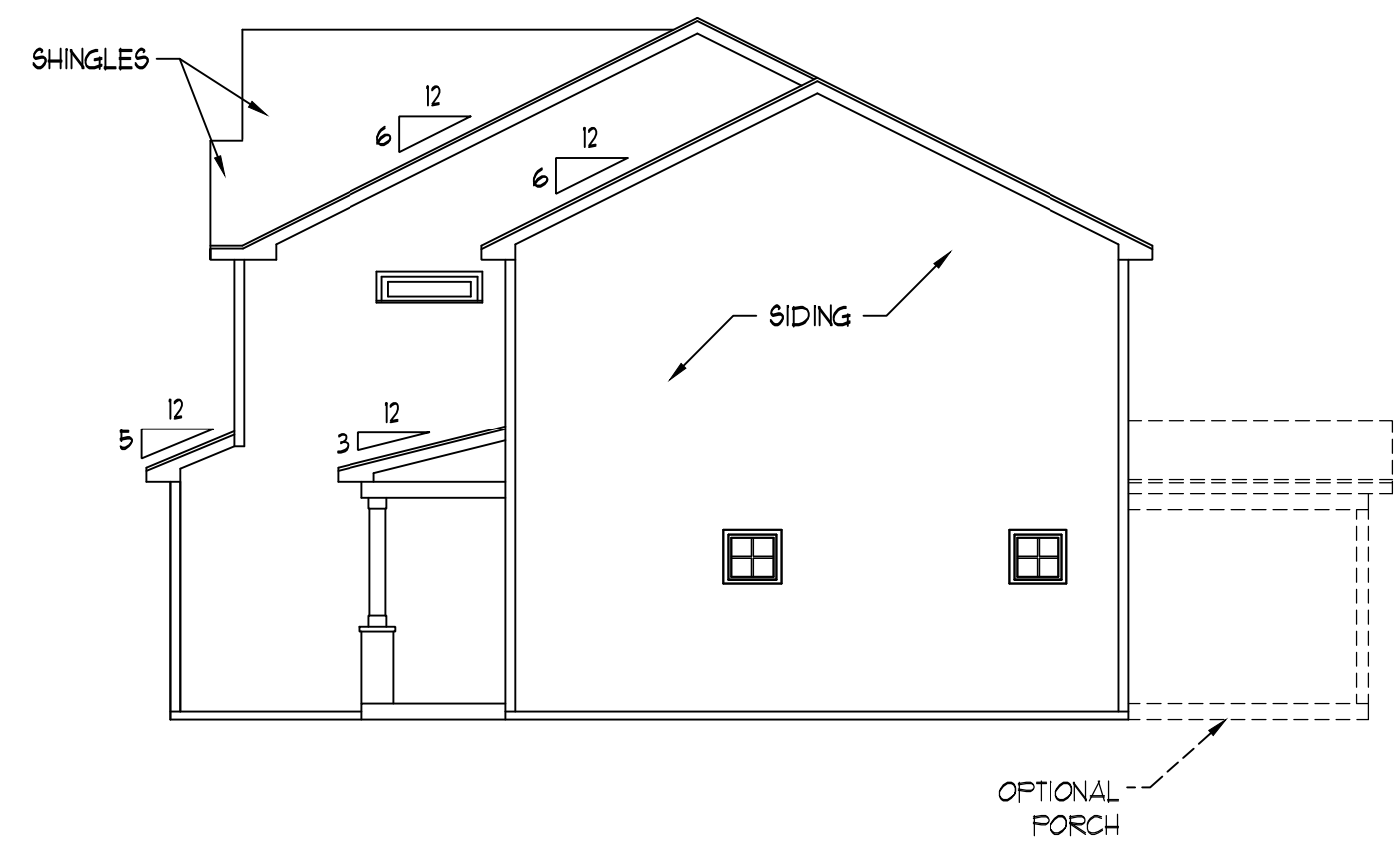
SCALE: 1/4" = 1'-0"



LEFT ELEVATION
SCALE: 1/8" = 1'-0"



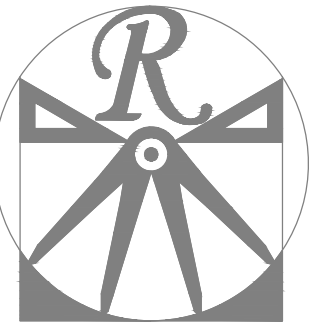
REAR ELEVATION
SCALE: 1/8" = 1'-0"



RIGHT ELEVATION
SCALE: 1/8" = 1'-0"

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3. ALL DIMENSIONS SHOULD BE READ OR CALCULATED AND NEVER SCALED.
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REV.:
SCALE: AS NOTED
DRAWN BY: WG
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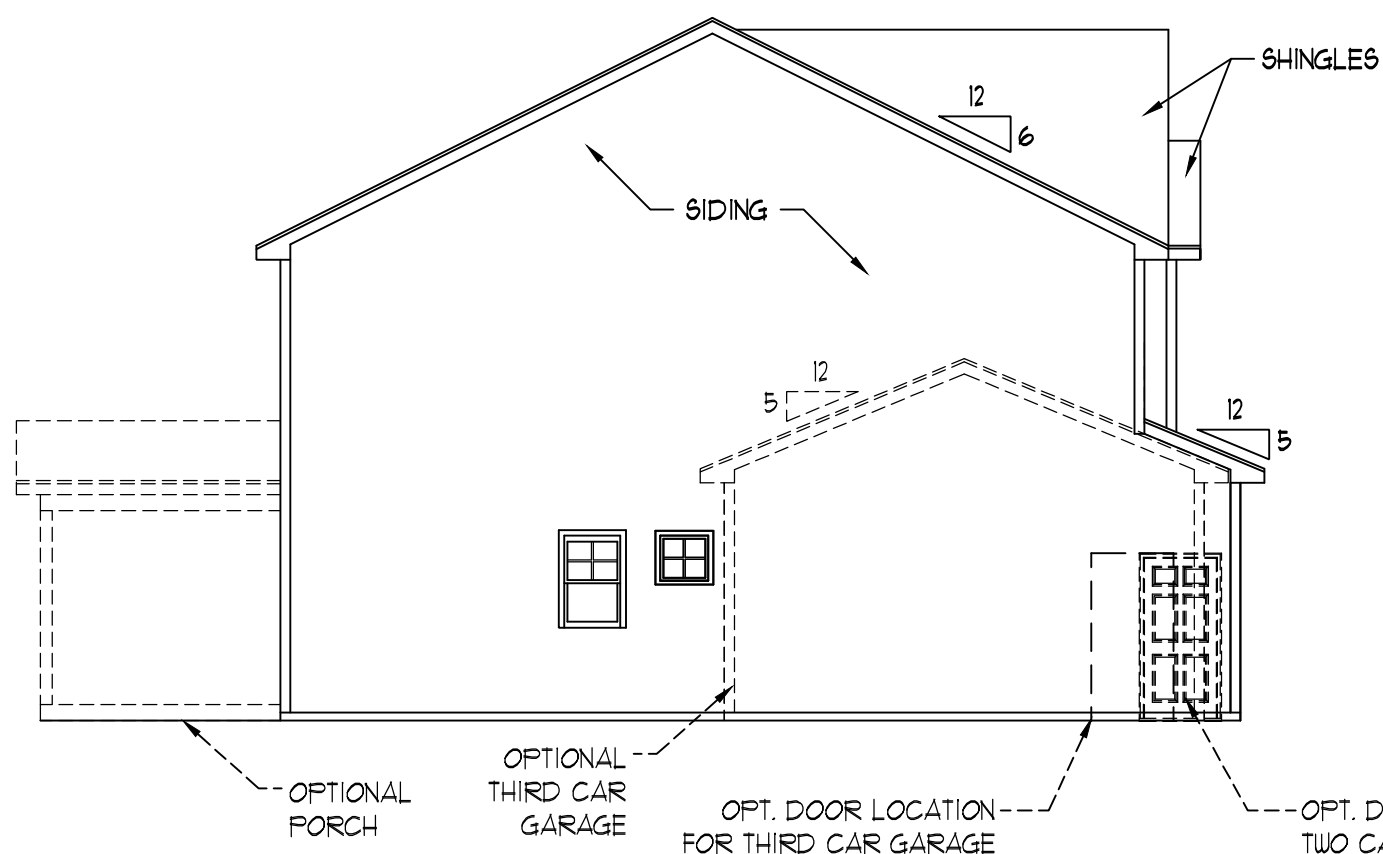
A - ELEVATIONS
A-1

PLANS DESIGNED TO THE
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RESIDENTIAL BUILDING CODE.

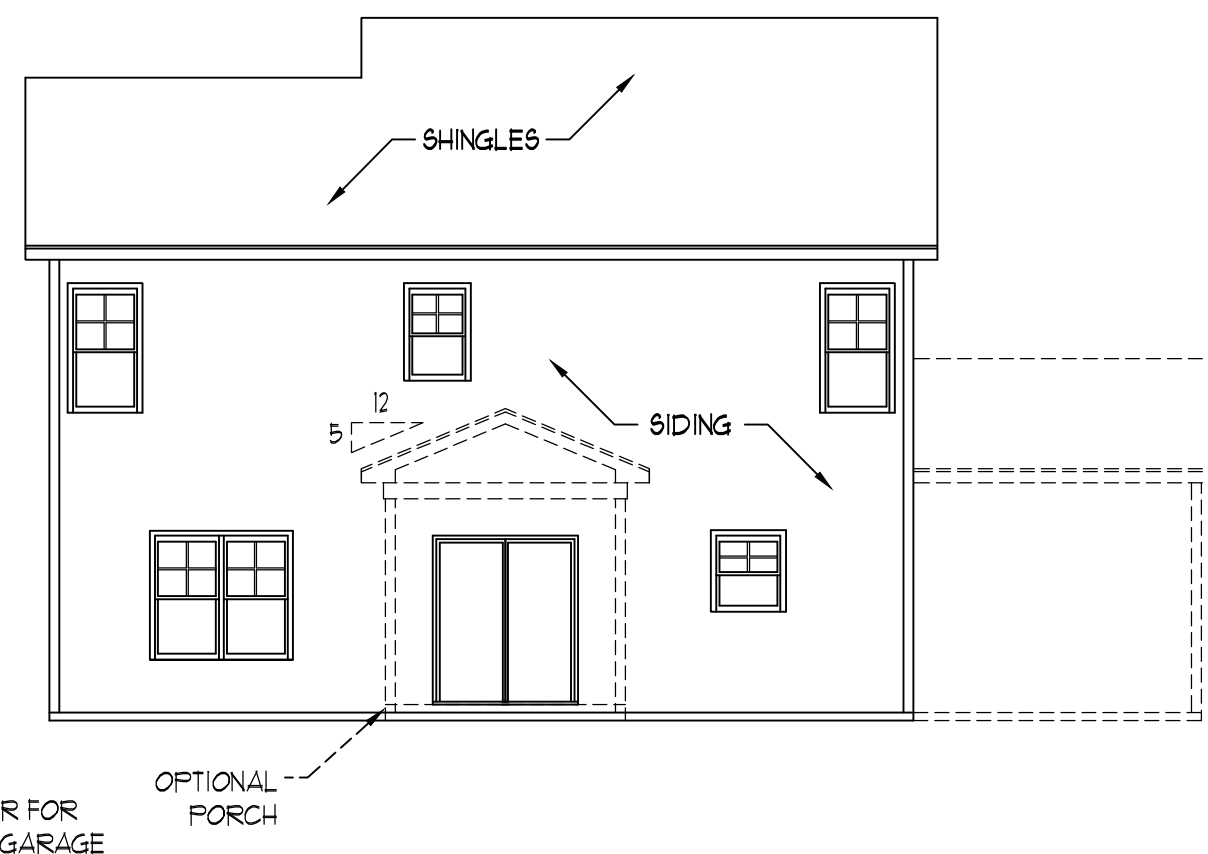


FRONT ELEVATION-B

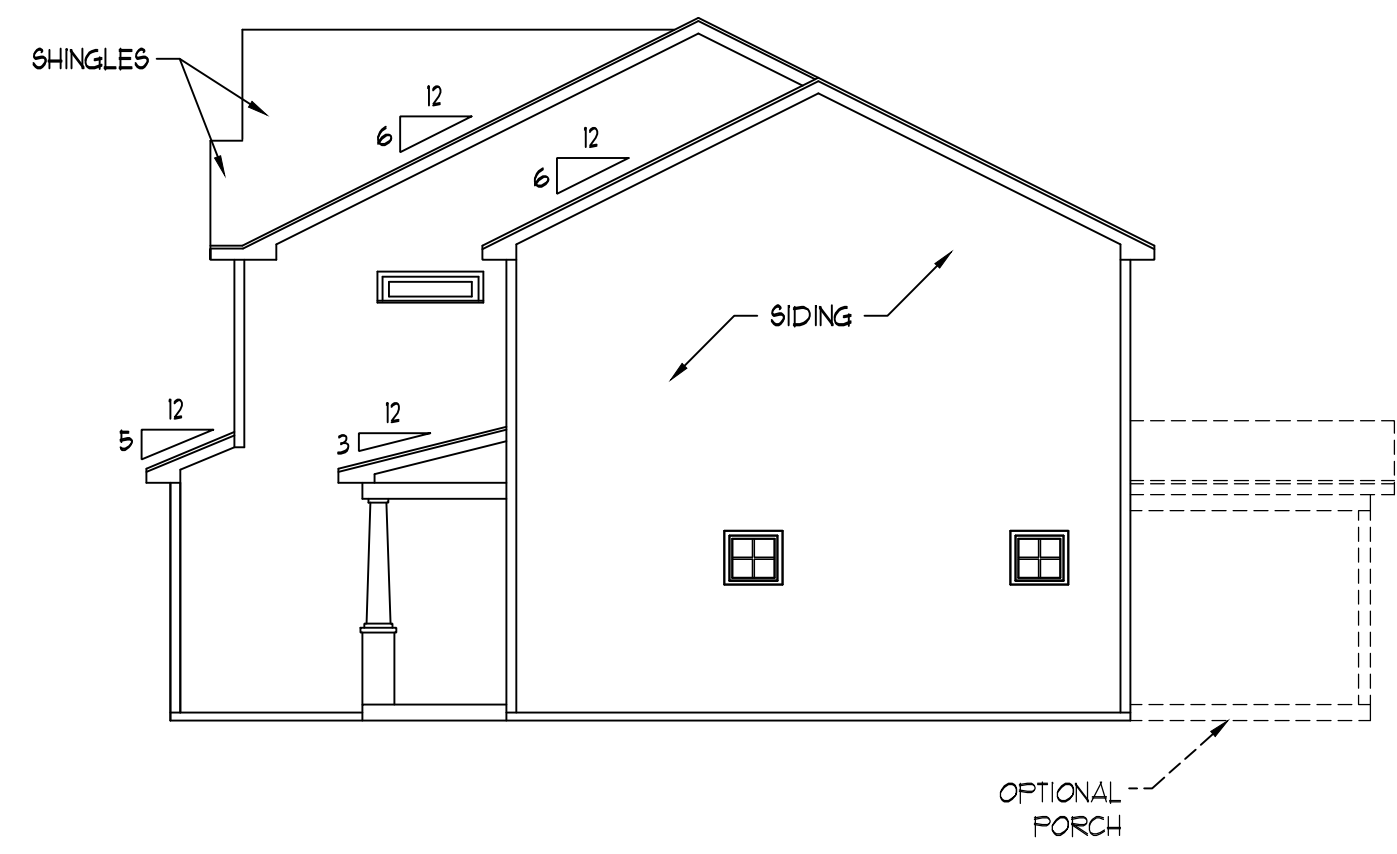
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LEFT ELEVATION
SCALE: 1/8" = 1'-0"



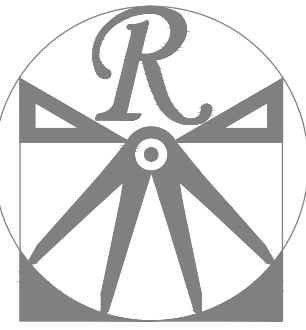
REAR ELEVATION
SCALE: 1/8" = 1'-0"



RIGHT ELEVATION
SCALE: 1/8" = 1'-0"

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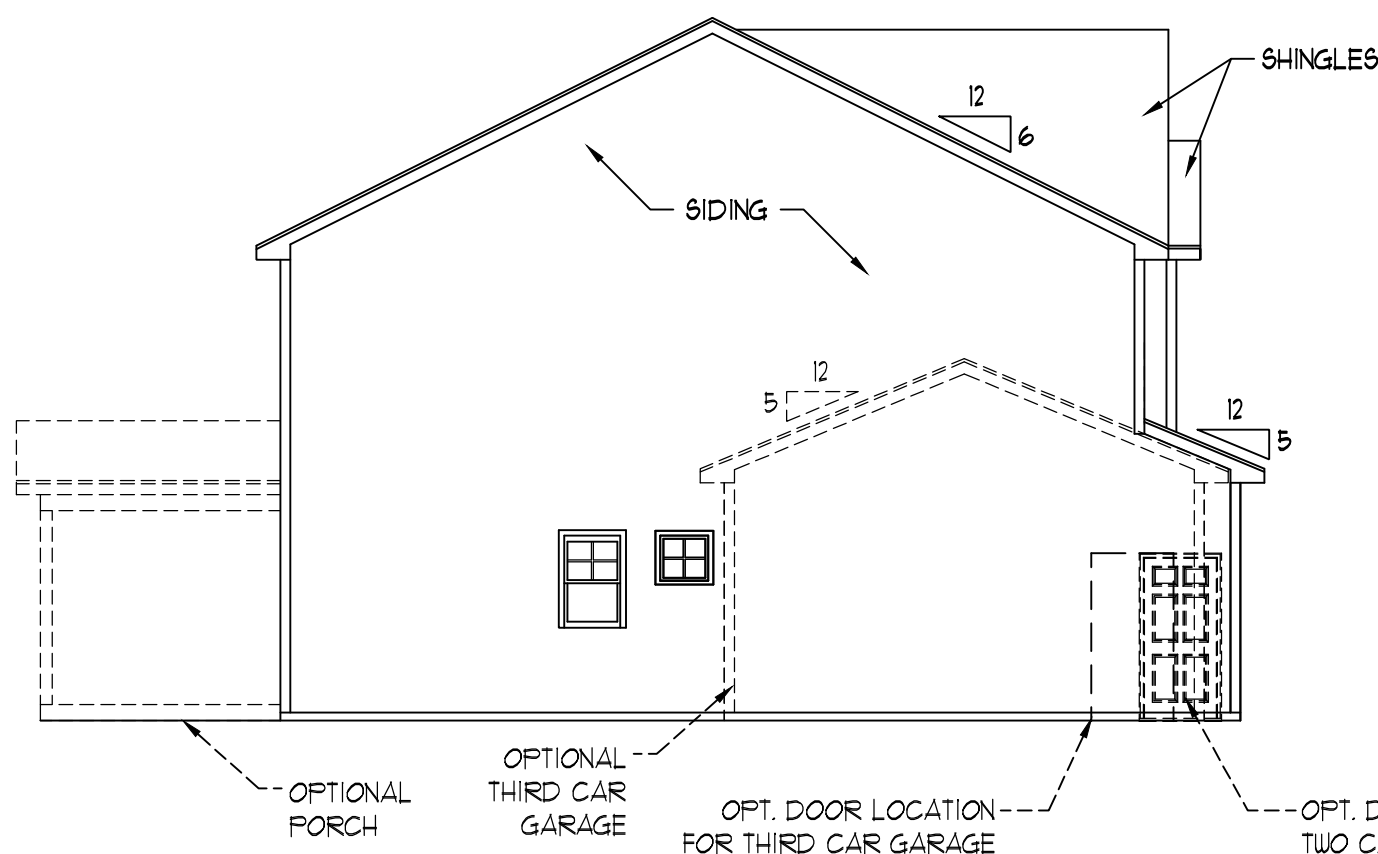
B - ELEVATIONS
A-2

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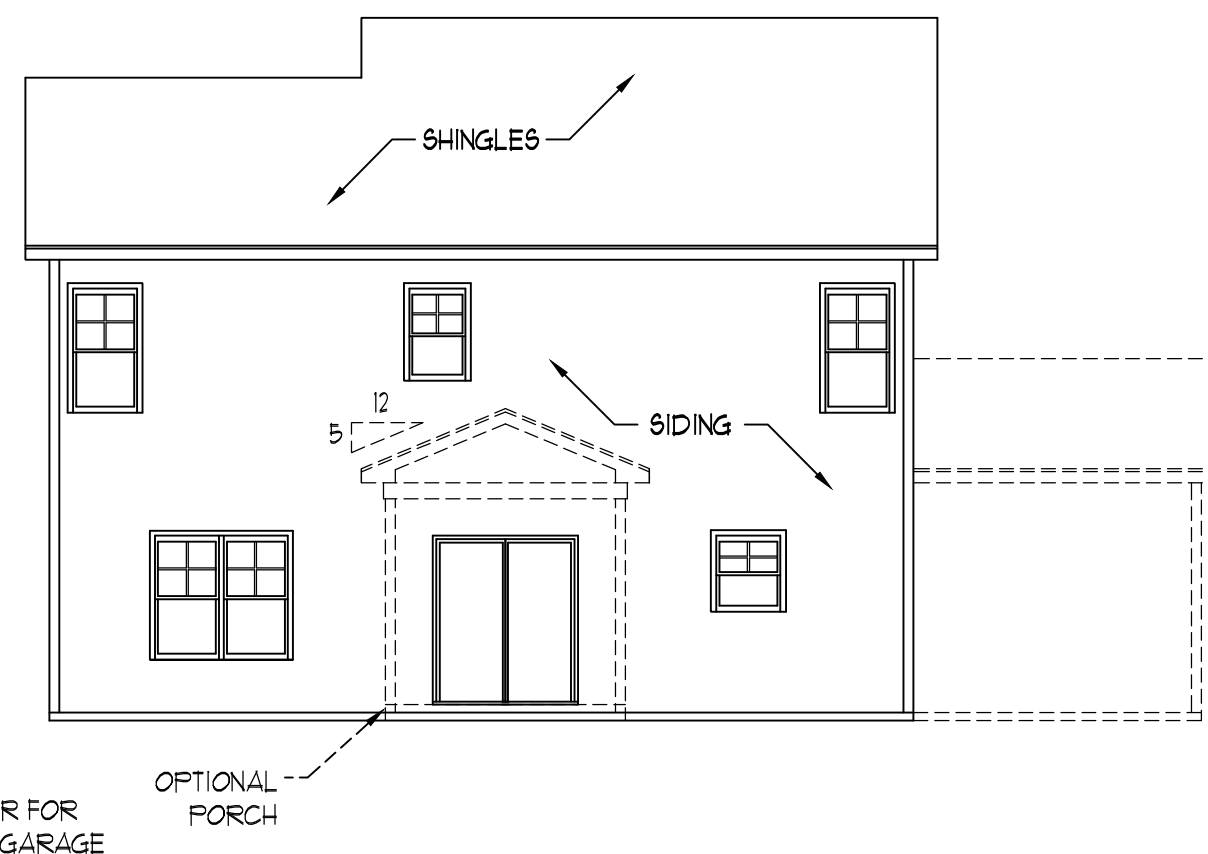


FRONT ELEVATION-C

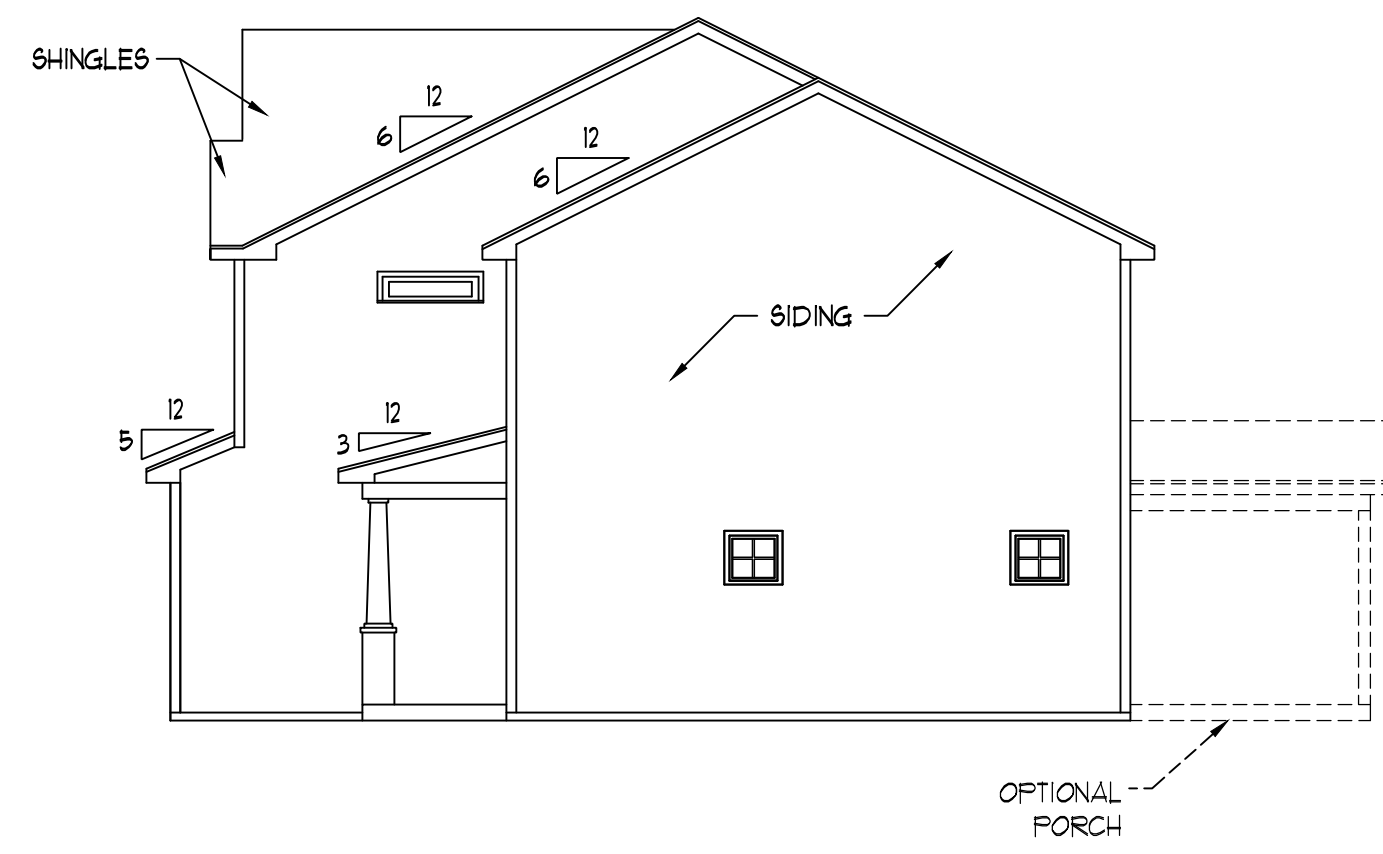
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LEFT ELEVATION
SCALE: 1/8" = 1'-0"



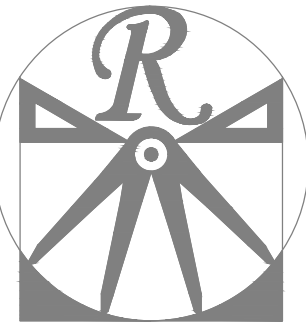
REAR ELEVATION
SCALE: 1/8" = 1'-0"



RIGHT ELEVATION
SCALE: 1/8" = 1'-0"

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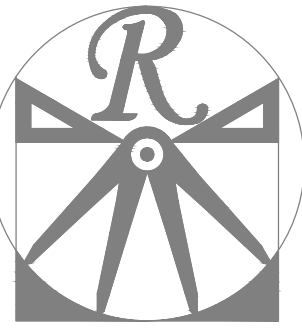
ENGINEERED BY:

REVIEWED BY:

C - ELEVATIONS

A-3

| SQUARE FOOTAGE (I.F.S.) | |
|-------------------------|--------------|
| 1st FLOOR: | 736 SQ. FT. |
| 2nd FLOOR: | 1120 SQ. FT. |
| TOTAL: | 1856 SQ. FT. |
| GARAGE: | 448 SQ. FT. |
| FRONT PORCH: | 84 SQ. FT. |
| STD. REAR PATIO: | 100 SQ. FT. |
| OPT. REAR PORCH: | 100 SQ. FT. |
| OPT. THIRD CAR GARAGE: | 224 SQ. FT. |



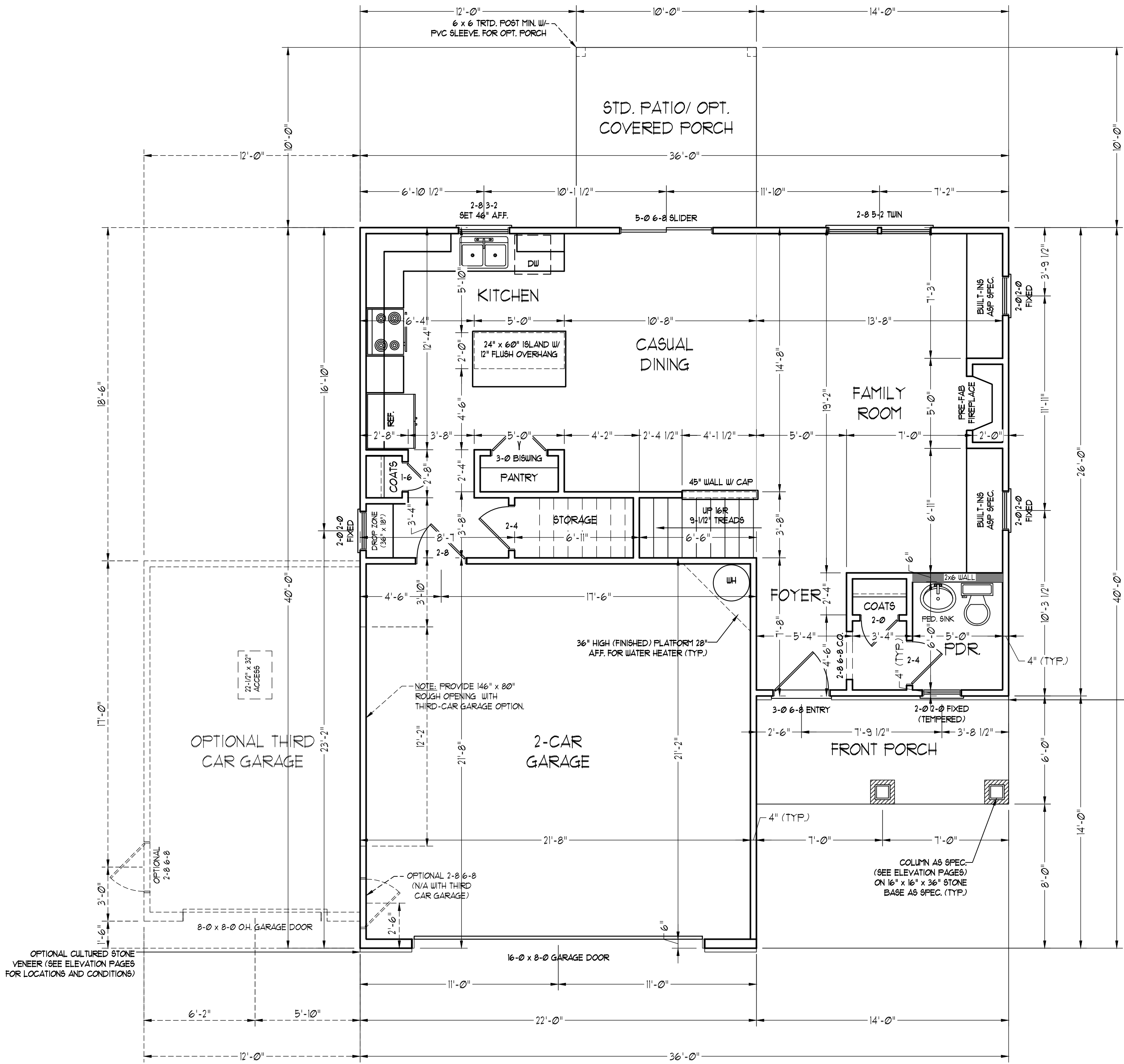
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OPTIONAL CULTURED STONE VENEER (SEE ELEVATION PAGES FOR LOCATIONS AND CONDITIONS)

OPTIONAL CULTURED STONE VENEER (SEE ELEVATION PAGES FOR LOCATIONS AND CONDITIONS)

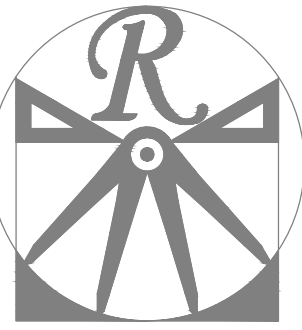
COLUMN AS SPEC. (SEE ELEVATION PAGES) ON 16" x 16" x 36" STONE BASE AS SPEC. (TYP.)

NOTE: PROVIDE 146" x 80" ROUGH OPENING WITH THIRD-CAR GARAGE OPTION.

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FIRST FLOOR PLAN
A-4



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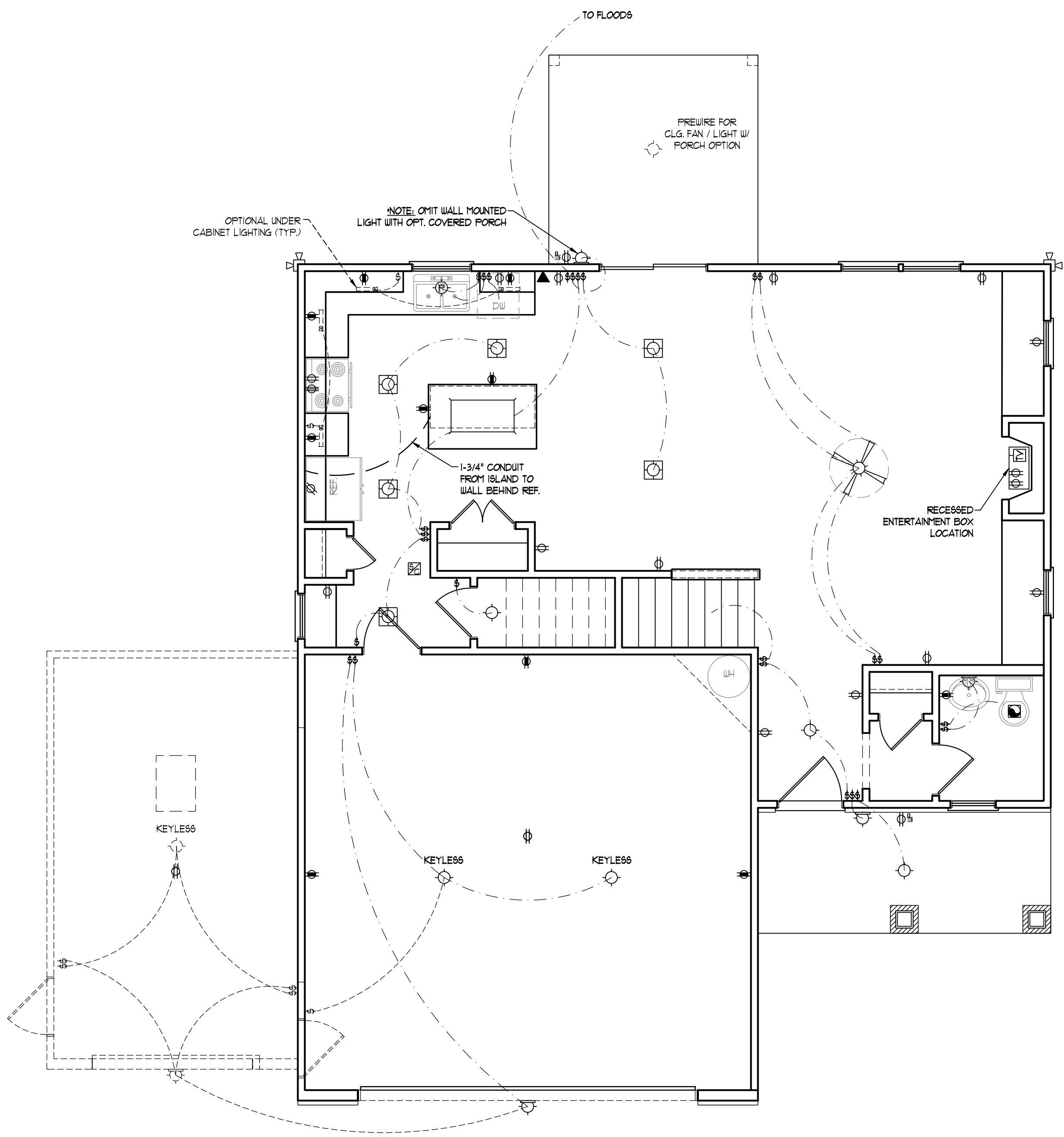
FIRST FLOOR
ELECTRICAL
PLAN
E-1

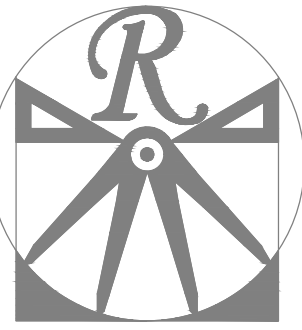
ELECTRICAL LAYOUT NOTES:

- 1.) BLOCK AND WIRE FOR ALL CEILING FANS PER PLAN.
- 2.) VANITY LIGHTS TO BE SET @ 30" AFF. (TYP.)
- 3.) ADDITIONAL EXTERIOR OUTLETS REQUIRED BY CODE TO BE LOCATED BY ELECTRICIAN.
- 4.) PLACE SWITCHES 8" (MIN) FROM ROUGH OPENINGS.

ELECTRICAL LEGEND

- ⊙ 110 V OUTLET
- ⊙ 110 V GFI OUTLET
- ⊙ 110 V SWITCHED OUTLET
- BB ⊙ 110 V BASEBOARD OUTLET
- ⊙ 4-FLEX
- ⊙ COUNTER OR FLOOR MOUNTED
- ⊙ COUNTER OR FLOOR MOUNTED 110V GFI
- ⊙ WEATHERPROOF
- ⊙ 220 V OUTLET
- ⊙ 110 V DEDICATED CIRCUIT
- ⊙ 220 V DEDICATED CIRCUIT
- ⊙ SPECIAL PURPOSE (240 V, ETC.)
- ⊙ WALL MOUNT LIGHT
- ⊙ CEILING MOUNT LIGHT
- ⊙ PENDANT LIGHT
- ⊙ RECESSED CAN LIGHT
- ⊙ MINI CAN LIGHT
- ⊙ EYEBALL LIGHT
- ⊙ FLUORESCENT LIGHT
- ⊙ UNDERCABINET LIGHT
- ⊙ FLOOD LIGHT
- ⊙ SWITCH
- ⊙ DIMMER SWITCH
- ▲ TELEPHONE
- △ DATA
- ▲ TELEPHONE AND DATA
- ⊙ TV CONNECTION
- ⊙ TV / DATA
- ⊙ CONDUIT FOR COMPONENT WIRING
- ⊙ SPEAKER
- ⊙ 110 V SMOKE / CM DETECTOR
- ⊙ 110 V SMOKE DETECTOR
- ⊙ EXHAUST FAN
- ⊙ LOW VOLTAGE PANEL
- ⊙ ALARM PANEL
- ⊙ CEILING FAN
- ⊙ CEILING FAN W/ LIGHT





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SECOND FLOOR
ELECTRICAL
PLAN

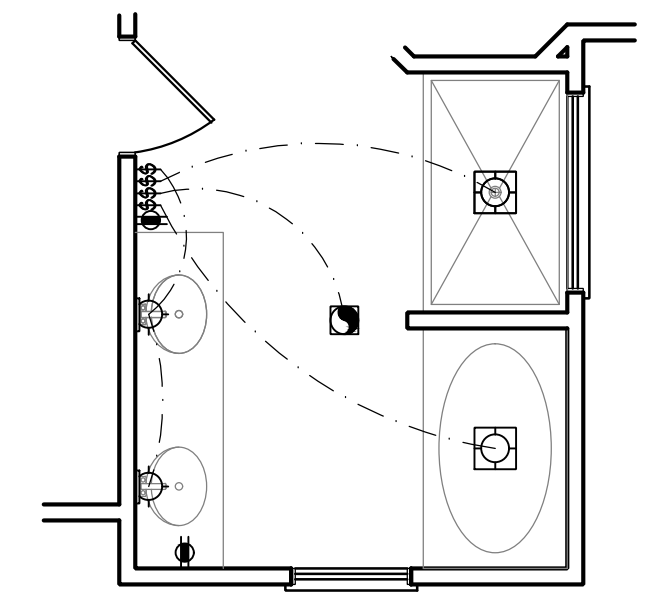
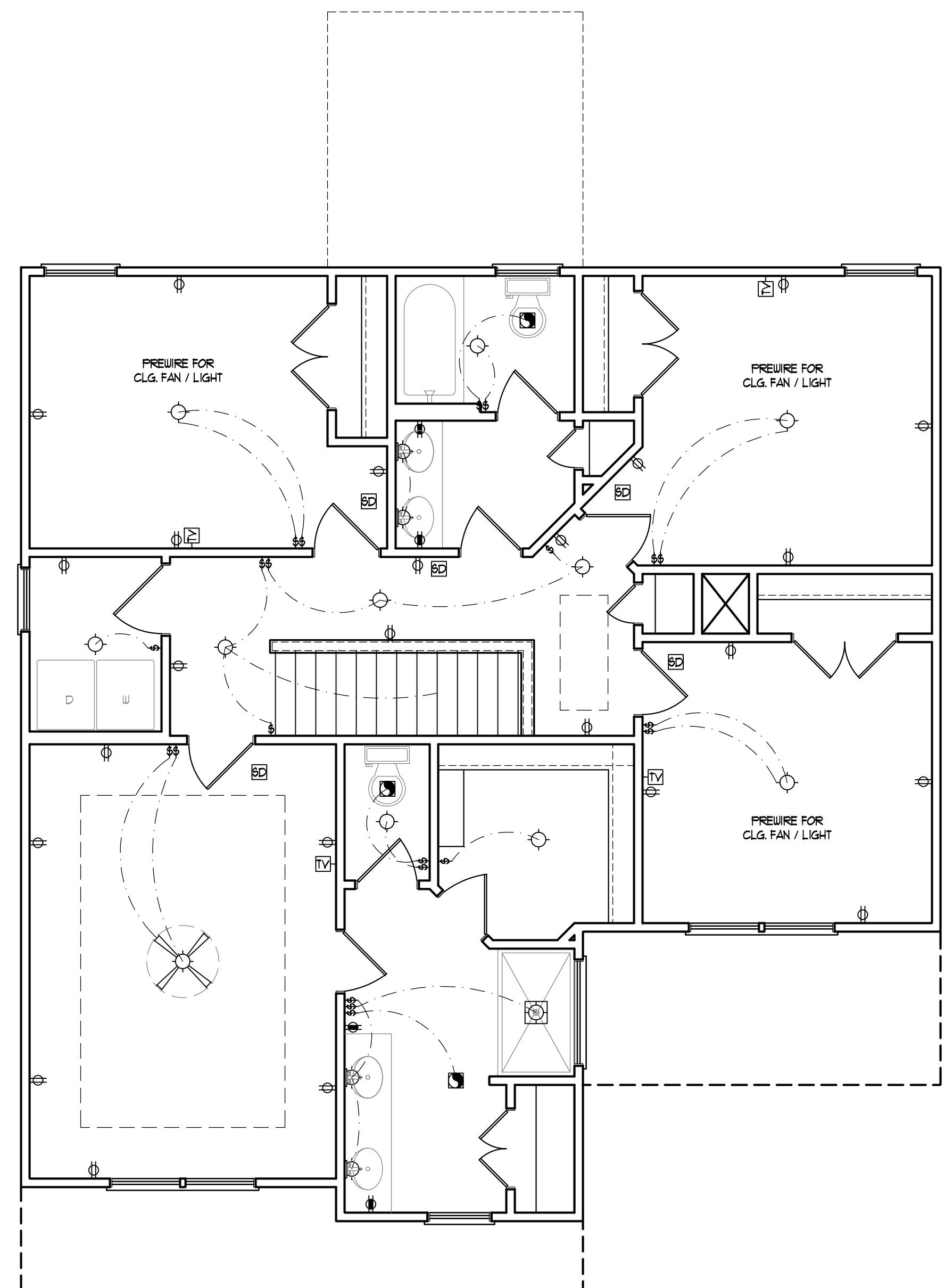
E-2

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- 4.) PLACE SWITCHES 8" (MIN) FROM ROUGH OPENINGS.

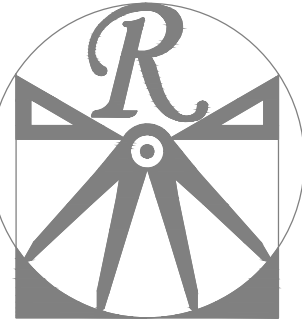
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- ⊕ 110 V GFI OUTLET
- ⊕ 110 V SWITCHED OUTLET
- ⊕ 110 V BASEBOARD OUTLET
- ⊕ 4-FLEX
- ⊕ COUNTER OR FLOOR MOUNTED
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- ⊕ UNDERCABINET LIGHT
- ⊕ FLOOD LIGHT
- ⊕ SWITCH
- ⊕ DIMMER SWITCH
- ⊕ TELEPHONE
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- ⊕ TELEPHONE AND DATA
- ⊕ TV CONNECTION
- ⊕ TV/ DATA
- ⊕ CONDUIT FOR COMPONENT WIRING
- ⊕ SPEAKER
- ⊕ 110 V SMOKE/ CO DETECTOR
- ⊕ 110 V SMOKE DETECTOR
- ⊕ EXHAUST FAN
- ⊕ LOW VOLTAGE PANEL
- ⊕ ALARM PANEL



OPTIONAL OWNER'S BATH

- ⊕ CEILING FAN
- ⊕ CEILING FAN W/ LIGHT



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REVIEWED BY:

STEMWALL SLAB FOUNDATION PLAN

S-1

| MASONRY STEM WALL SPECIFICATIONS | | | | |
|----------------------------------|-------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| WALL HEIGHT (FEET) | MASONRY WALL TYPE | | | |
| | 8" CMU | 4" BRICK AND 4" CMU | 4" BRICK AND 8" CMU | 12" CMU |
| 2' OR LESS | UNGROUTED | GROUT SOLID | UNGROUTED | UNGROUTED |
| 3' | UNGROUTED | GROUT SOLID | UNGROUTED | UNGROUTED |
| 4' | GROUT SOLID | GROUT SOLID w/ #4 REBAR @ 48" O.C. | GROUT SOLID | GROUT SOLID w/ #4 REBAR @ 64" O.C. |
| 5' | GROUT SOLID w/ #4 REBAR @ 36" O.C. | N/A | GROUT SOLID w/ #4 REBAR @ 36" O.C. | GROUT SOLID w/ #4 REBAR @ 64" O.C. |
| 6' | GROUT SOLID w/ #4 REBAR @ 24" O.C. | N/A | GROUT SOLID w/ #4 REBAR @ 24" O.C. | GROUT SOLID w/ #4 REBAR @ 64" O.C. |
| 7' OR MORE | ENGINEERED BASED ON SITE CONDITIONS | | | |

STRUCTURAL NOTES:

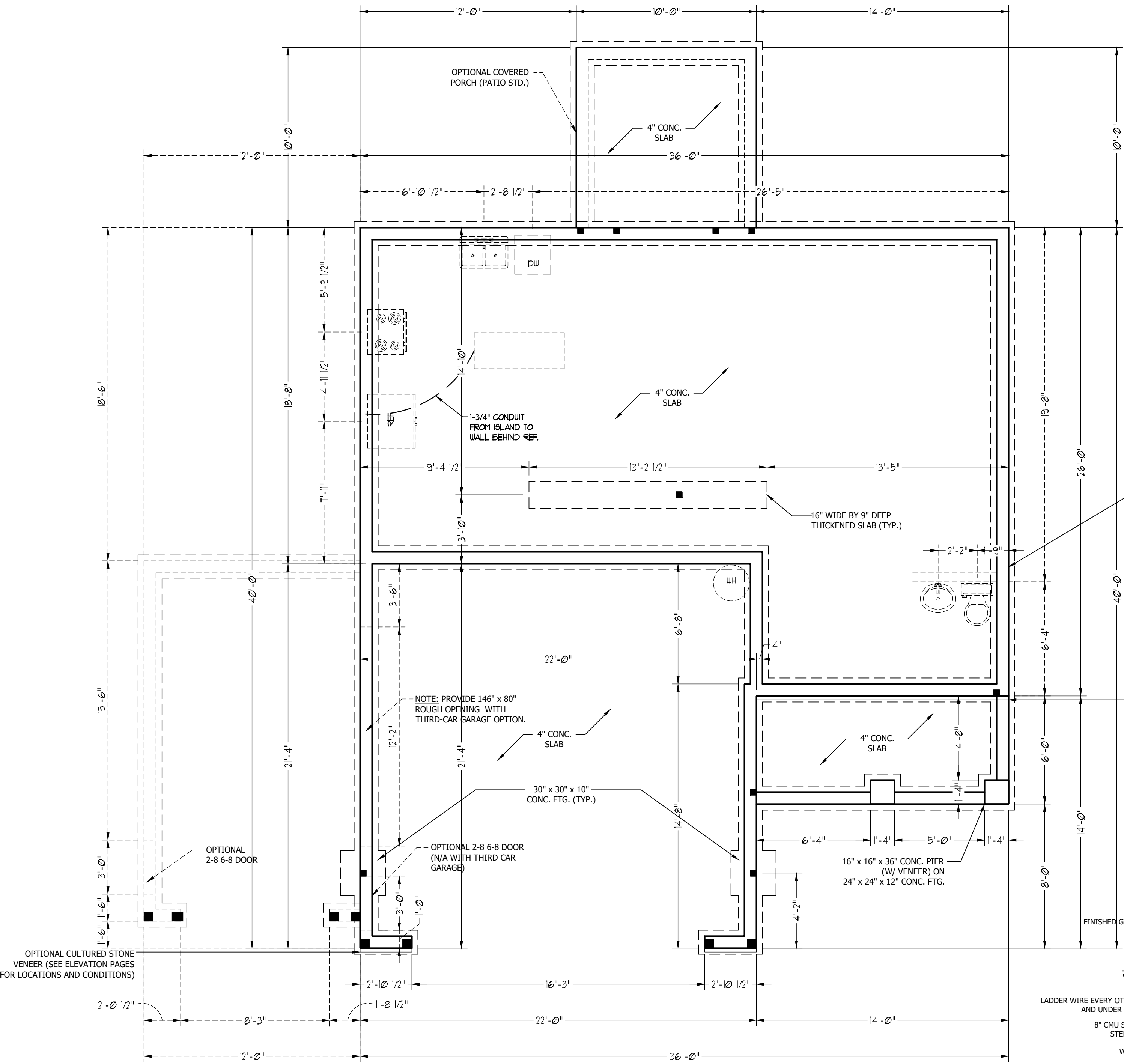
- TABLE ABOVE APPLIES TO HOUSE FOUNDATION ONLY. TABLE DOES NOT APPLY TO GARAGE FOUNDATION NOT COMMON TO HOUSE.
- TIE MULTIPLE WYTHES TOGETHER WITH LADDER WIRE @ 16" O.C. VERTICALLY.
- WALL HGT. IS MEASURED FROM TOP OF FOOTING TO TOP OF WALL.
- PREP SLAB PER R506.2.1 AND R505.2.2 BASE AND EXCEPTION OF THE 2018 NCRC
- MINIMUM 24" LAP SPLICE LENGTH.
- BACKFILL OF CLEAN #57/ #67 WASHED STONE IS PERMITTED.
- BACKFILL OF WELL DRAINED SAND-GRAVEL MIXTURE SOILS (45 PSF/FT BELOW GRADE) CLASSIFIED AS GROUP 1 ACCORDING TO UNIFIED SOILS CLASSIFICATION SYSTEM IN ACCORDANCE WITH TABLE R405.1 OF THE 2018 NCRC ARE ALLOWABLE.
- LOCATE REBAR IN CENTER OF FOUNDATION WALL.
- WHERE REQUIRED, FILL BLOCK SOLID WITH TYPE "S" MORTAR OR 3000 PSI GROUT. USE OF "LOW LIFT GROUTING" METHOD REQUIRED WHEN FILLING WALLS WITH GROUT AT HEIGHTS OF 5' AND GREATER.

ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

- STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
- FOR 120 MPH WIND ZONES INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO CONCRETE OR 15" INTO MASONRY. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
- FOR 130 MPH WIND ZONES INSTALL 1/2" ANCHOR BOLTS 4'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO CONCRETE OR 15" INTO MASONRY. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
- MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
- EXTERIOR WALLS DESIGNED FOR 120 OR 130 MPH WINDS.
- INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NCRC, 2018 EDITION.
- ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NCRC, 2018 EDITION.

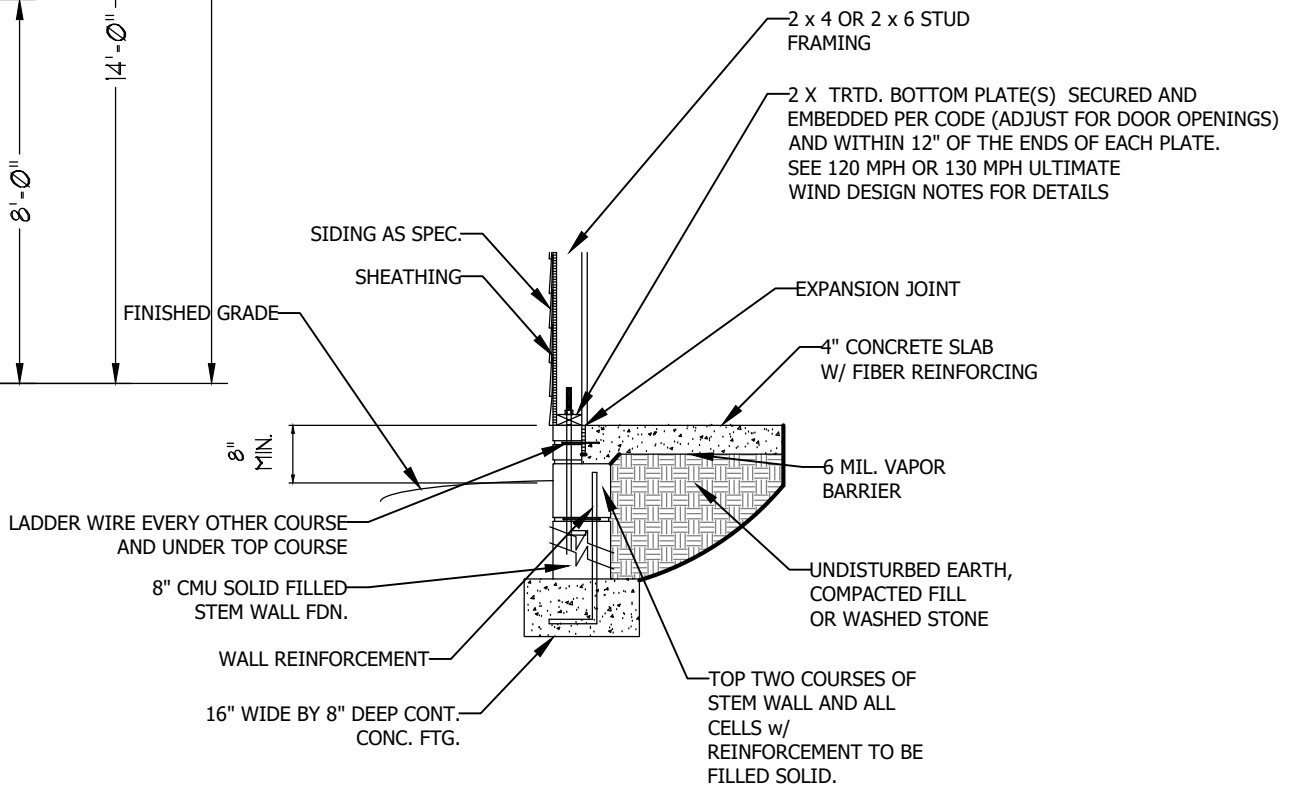
| ANCHOR SPACING AND EMBEDMENT | | |
|------------------------------|------------|--------------------------------------|
| WIND ZONE | 120 MPH | 130 MPH |
| SPACING | 6'-0" O.C. | 4'-0" O.C. |
| EMBEDMENT | 7" | 7" INTO CONCRETE 15" INTO MASONRY |

NOTE: HORIZONTAL FOOTING REBAR REQUIRED IN HIGH WIND ZONES ONLY (140-150 MPH)



8" FDN. ON 16" WIDE BY 8" DEEP CONT. CONC. FTG. (TYP.)

OPTIONAL CULTURED STONE VENEER (SEE ELEVATION PAGES FOR LOCATIONS AND CONDITIONS)



STEM WALL FDN. DETAIL



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CAROLINA COLLECTION
BRINKLEY

DATE: JUNE 22, 2021

REV.:

SCALE: 1/4" = 1'-0"

DRAWN BY: WG

ENGINEERED BY:

REVIEWED BY:

CRAWL
FOUNDATION
PLAN

S-1

STRUCTURAL NOTES:

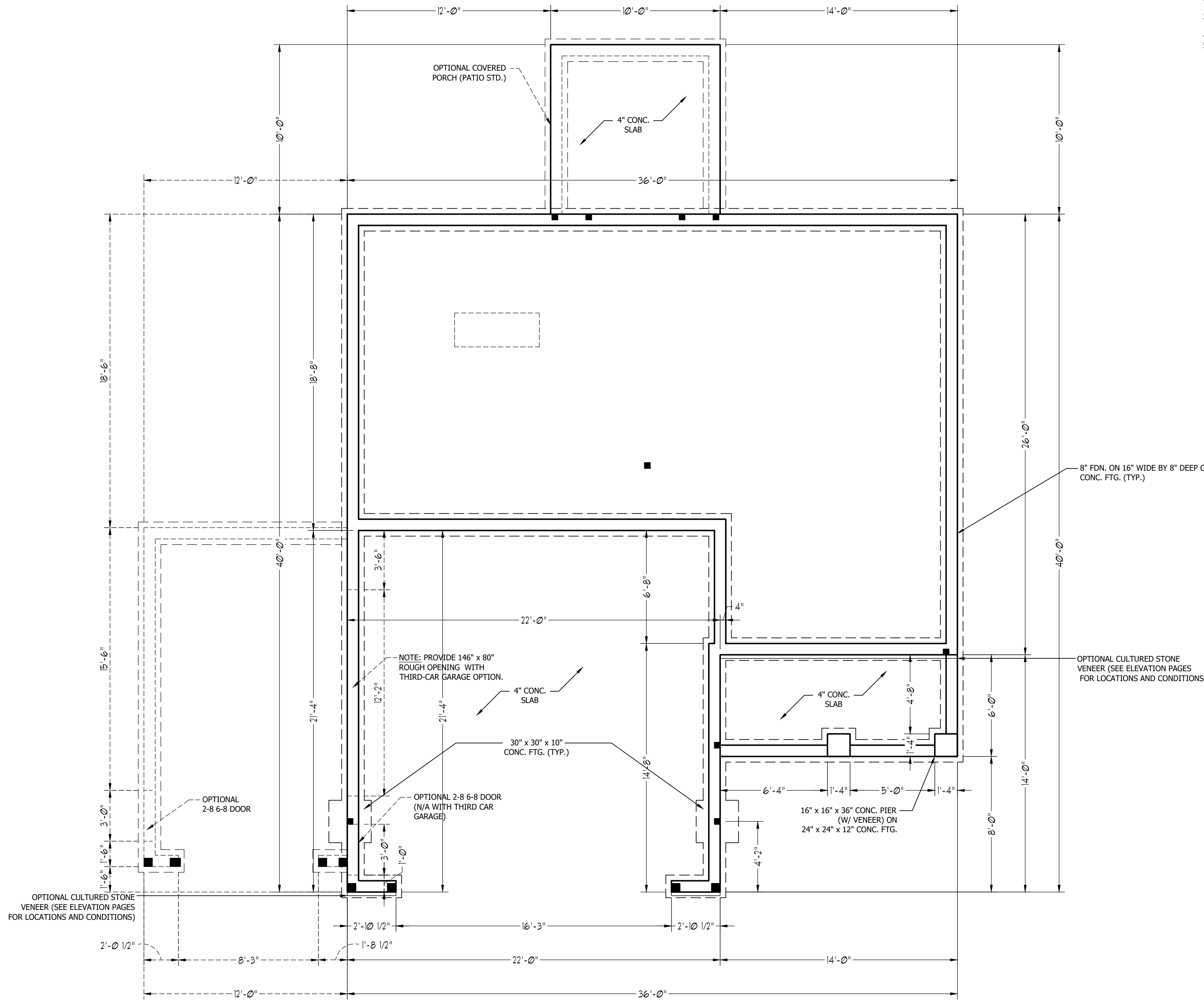
1. ALL FRAMING LUMBER TO BE #2 SPF (UNO). ALL TREATED LUMBER TO BE #2 SYP (UNO.)
2. INSTALL AN EXTRA OR DOUBLE JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS.
3. SQUARES REPRESENT POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION.
4. SHADED PIERS TO BE FILLED SOLID.
5. INSTALL LADDER WIRE @ 16" O.C. TO SECURE MULTIPLE WYTHE FOUNDATION WALLS TOGETHER.

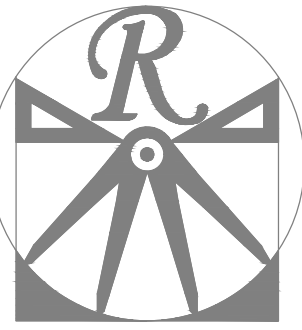
ULTIMATE DESIGN WIND SPEED NOTES FOR LESS THAN 30' MEAN ROOF HEIGHT:

1. STRUCTURAL DESIGN PER NORTH CAROLINA RESIDENTIAL CODE, 2018 EDITION.
2. FOR 120 MPH WIND ZONES INSTALL 1/2" ANCHOR BOLTS 6'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO CONCRETE OR 15" INTO MASONRY. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
3. FOR 130 MPH WIND ZONES INSTALL 1/2" ANCHOR BOLTS 4'-0" O.C. AND WITHIN 1'-0" FROM END OF EACH CORNER. ANCHOR BOLTS MUST EXTEND A MINIMUM OF 7" INTO CONCRETE OR 15" INTO MASONRY. LOCATE BOLT WITHIN MIDDLE THIRD OF PLATE WIDTH.
4. MEAN ROOF HEIGHT IS LESS THAN 30 FEET.
5. EXTERIOR WALLS DESIGNED FOR 120 OR 130 MPH WINDS.
6. INSTALL 7/16" OSB SHEATHING ON ALL EXTERIOR WALLS OF ALL STORIES IN ACCORDANCE WITH SECTION R602.10.3 OF THE NRCR, 2018 EDITION.
7. ENERGY EFFICIENCY COMPLIANCE AND INSULATION VALUES OF THE BUILDING TO BE IN ACCORDANCE WITH CHAPTER 11 OF THE NRCR, 2018 EDITION.

FOUNDATION VENTILATION CALCULATION

778 SQ. FT. OF CRAWL SPACE DIVIDED BY 1500 EQUALS 0.5 SQ. FT. OF NET FREE AREA REQUIRED. INSTALL 6 MIL POLY TO COVER ENTIRE CRAWL SPACE. LOCATE VENTS WITHIN 3'-0" OF EACH CORNER OF THE BUILDING TO PROVIDE CROSS-VENTILATION.





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CAROLINA COLLECTION
BRINKLEY

DATE: JUNE 22, 2021
REV.:
SCALE: 1/4" = 1'-0"
DRAWN BY: WG
ENGINEERED BY:
REVIEWED BY:

SECOND FLOOR
FRAMING PLAN

S-2

STRUCTURAL NOTES:

1. ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 4 (UNO).
3. INSTALL AN EXTRA JOIST UNDER WALLS PARALLEL TO FLOOR JOISTS
4. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
5. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)
6. ALL 4 X 4 POSTS SHALL BE ANCHORED TO SLABS W/ SIMPSON ABU44 POST BASES (OR EQUAL) AND 6 X 6 POSTS W/ ABU66 POST BASES (OR EQUAL) (UNO). ALL 4 X 4 AND 6 X 6 POSTS TO BE INSTALLED WITH 700 LB CAPACITY UPLIFT CONNECTORS AT TOP (UNO.)
7. FOR FIBERGLASS, ALUMINUM, OR COLUMN ENG. BY OTHERS, SECURE TO SLAB W/ (2) METAL ANGLES USING 2" CONC. SCREWS. FASTEN ANGLES TO COLUMNS W/ 1/4" THROUGH BOLTS W/ NUTS AND WASHERS. LOCATE ANGLES ON OPPOSITE SIDES OF COLUMN. THROUGH BOLTS MUST BE INSTALLED PRIOR TO SETTING COLUMN.

BRACE WALL PANEL NOTES:

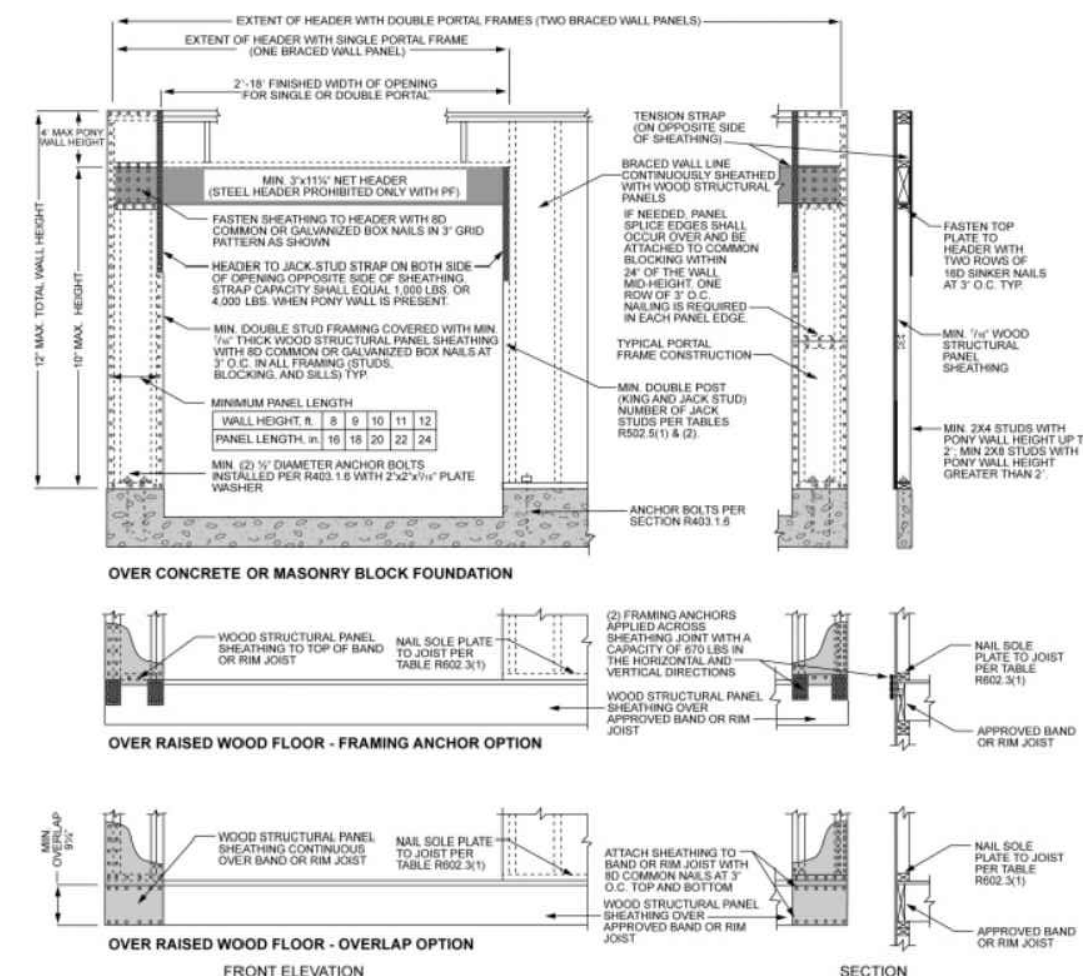
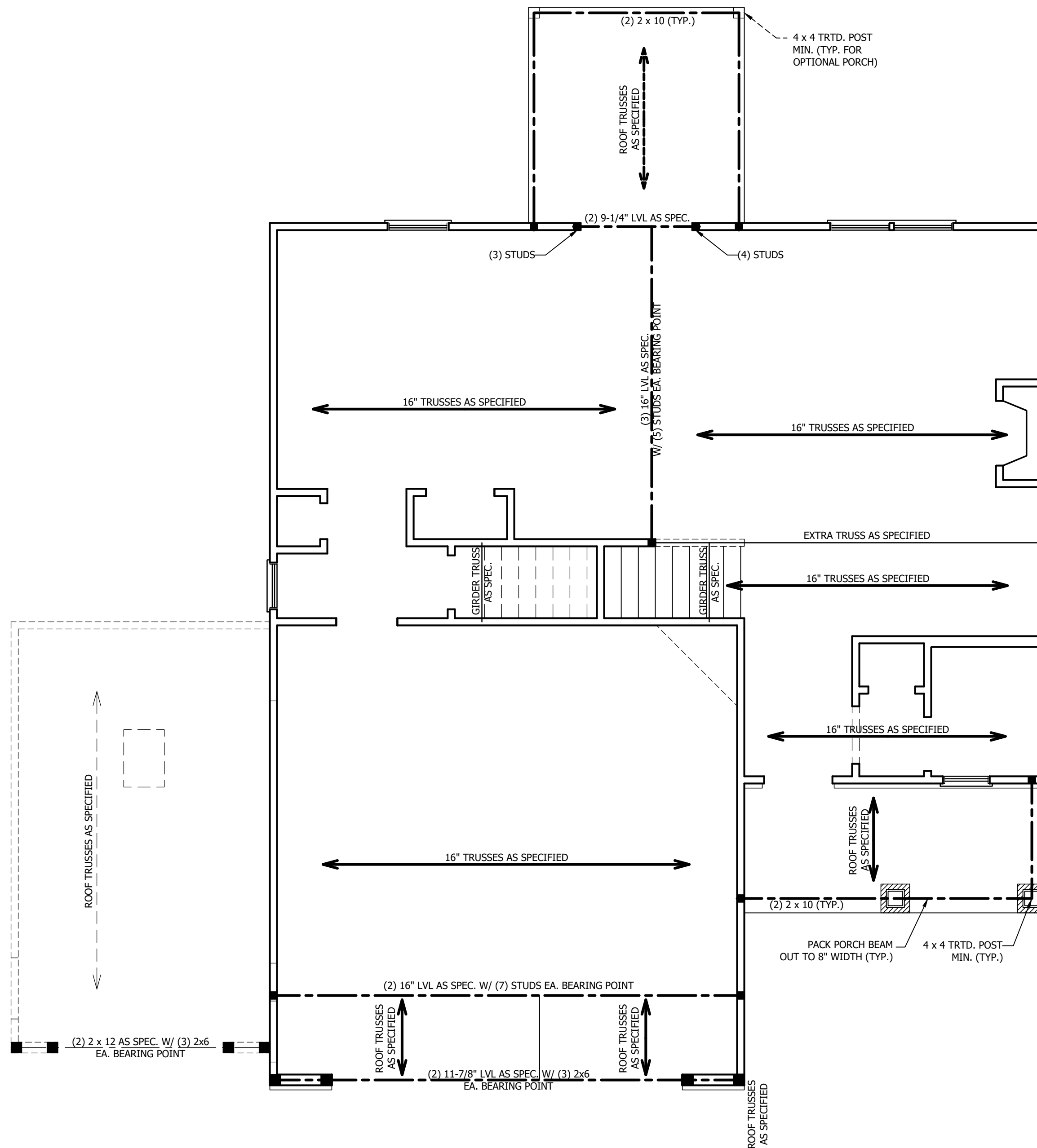
EXTERIOR WALLS: ALL EXTERIOR WALLS TO BE SHEATHED WITH CS-WSP OR CS-SFB IN ACCORDANCE WITH SECTION R602.10.3 UNLESS NOTED OTHERWISE.

REQUIRED LENGTH OF BRACING: REQUIRED BRACE WALL LENGTH FOR EACH SIDE OF THE CIRCUMSCRIBED RECTANGLE ARE INTERPOLATED PER TABLE R602.10.3. METHODS CS-WSP AND CS-SFB CONTRIBUTE THEIR ACTUAL LENGTH. METHOD GB CONTRIBUTES 0.5 ITS ACTUAL LENGTH. METHOD PF CONTRIBUTES 1.5 TIMES ITS ACTUAL LENGTH.

GYPSON: ALL INTERIOR SIDES OF EXTERIOR WALLS AND BOTH SIDES OF INTERIOR WALLS TO HAVE 1/2" GYPSON INSTALLED. WHEN NOT USING METHOD GB GYPSON TO BE FASTENED PER TABLE R702.3.5. METHOD GB TO BE FASTENED PER TABLE R602.10.1.

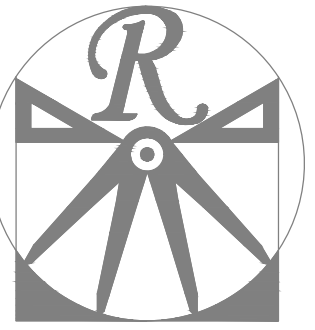
HD: 800 LBS HOLD DOWN DEVICE FASTENED TO THE EDGE OF THE BRACE WALL PANEL NEAREST TO THE CORNER

METHODS: PER TABLE R602.10.1



1 inch = 25.4 mm, 1 foot = 305 mm, 1 lb = 4.45 N.

FIGURE R602.10.1
METHOD PF—PORTAL FRAME CONSTRUCTION



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DATE: JUNE 22, 2021
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SCALE: 1/4" = 1'-0"
DRAWN BY: WG
ENGINEERED BY:
REVIEWED BY:

ATTIC FLOOR
FRAMING PLAN

S-3

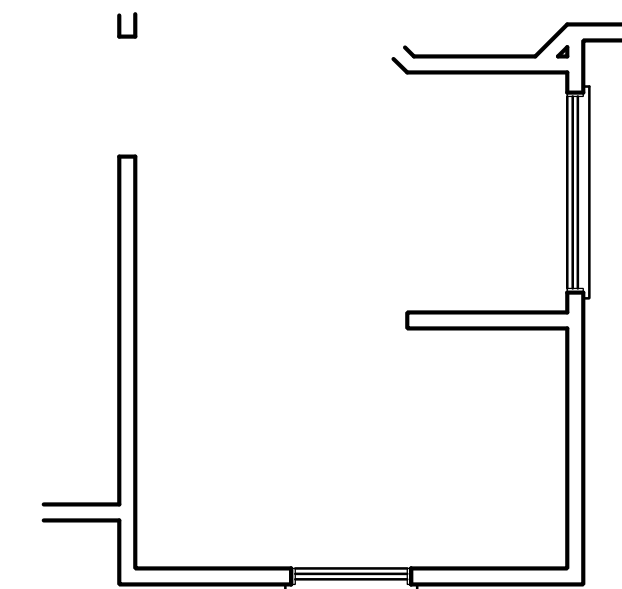
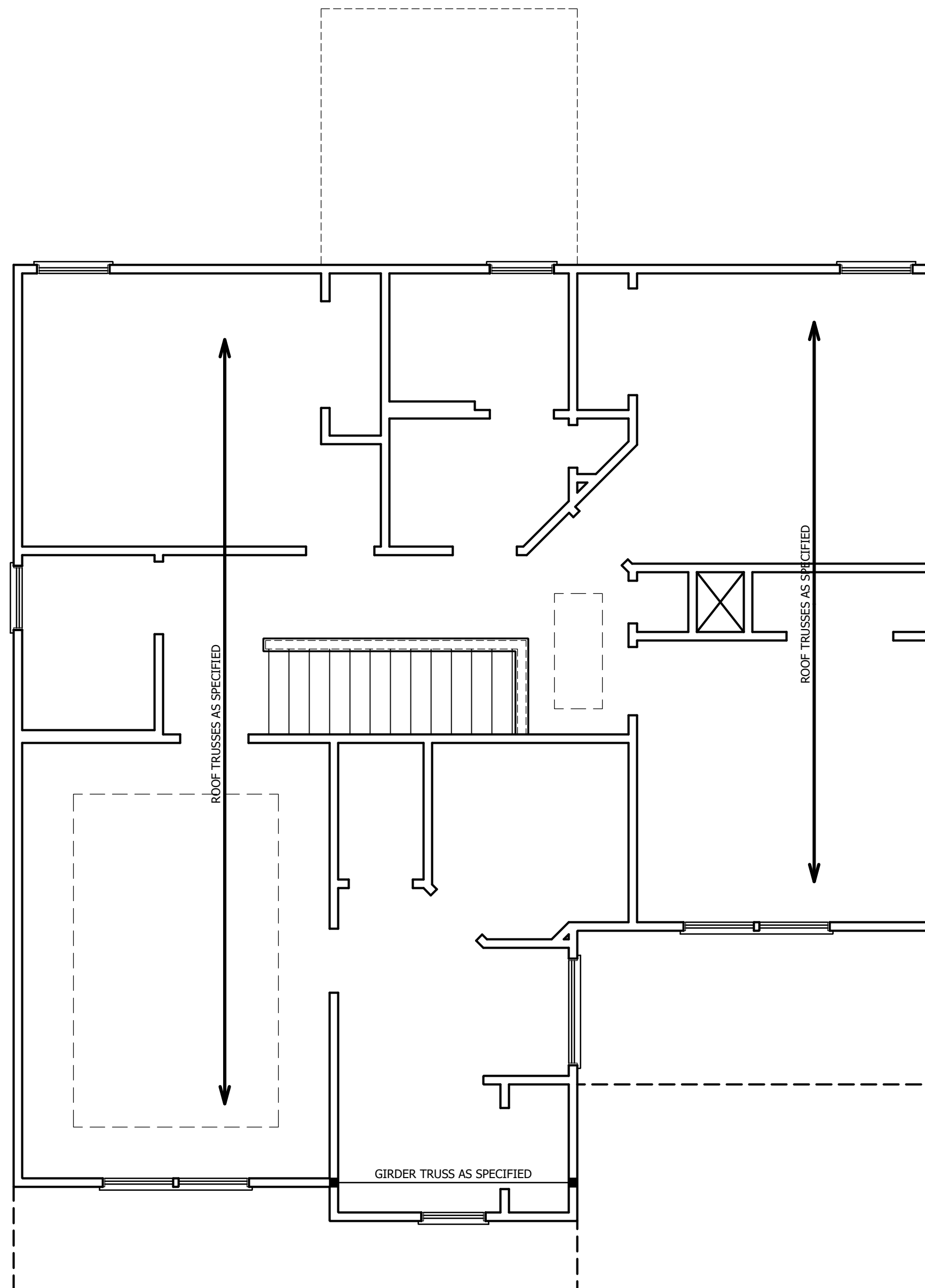
TABLE R602.7.5
MINIMUM NUMBER OF FULL HEIGHT STUDS
AT EACH END OF HEADERS IN EXTERIOR WALLS

| HEADER SPAN (FEET) | MAXIMUM STUD SPACING (INCHES) (PER TABLE R602.3(5)) | |
|--------------------|---|----|
| | 16 | 24 |
| UP TO 3' | 1 | 1 |
| 4' | 2 | 1 |
| 8' | 3 | 2 |
| 12' | 5 | 3 |
| 16' | 6 | 4 |

STRUCTURAL NOTES:

1. ALL FRAMING LUMBER TO BE SPF #2 (UNO). ALL TREATED LUMBER TO BE SYP #2 (UNO.)
2. ALL LOAD BEARING HEADERS TO BE (2) 2 x 6 (UNO).
3. WINDOW AND DOOR HEADERS TO BE SUPPORTED w/ (1) JACK STUD AND (1) KING STUD EA. END (UNO.). SEE TABLE R602.7.5 FOR ADDITIONAL KING STUD REQUIREMENTS.
4. SQUARES DENOTE POINT LOADS WHICH REQUIRE SOLID BLOCKING TO GIRDER OR FOUNDATION. ALL SQUARES TO BE (2) STUDS (UNO.)

DSP - DOUBLE STUD POCKET
TSP - TRIPLE STUD POCKET



OPTIONAL OWNER'S BATH



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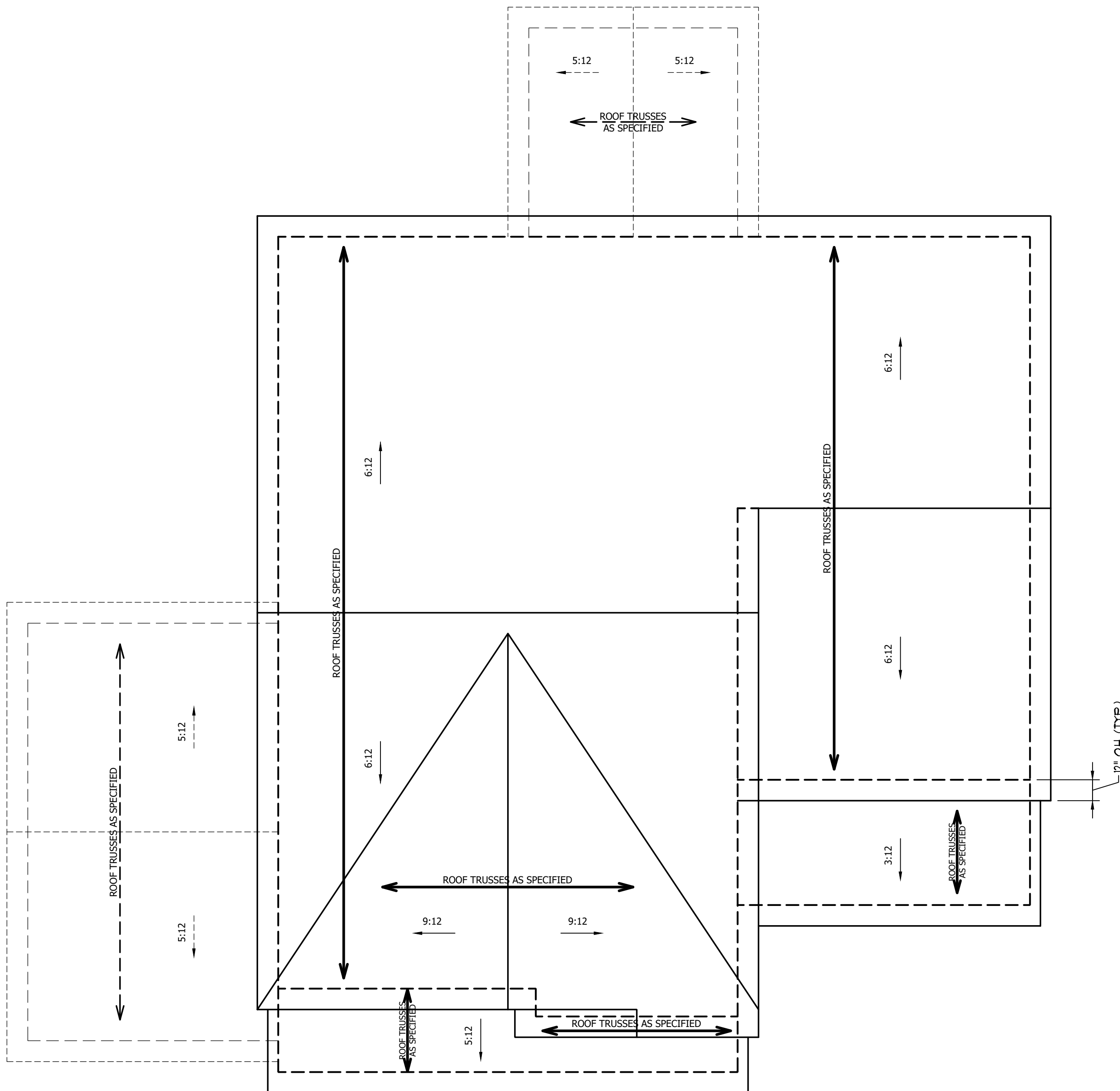
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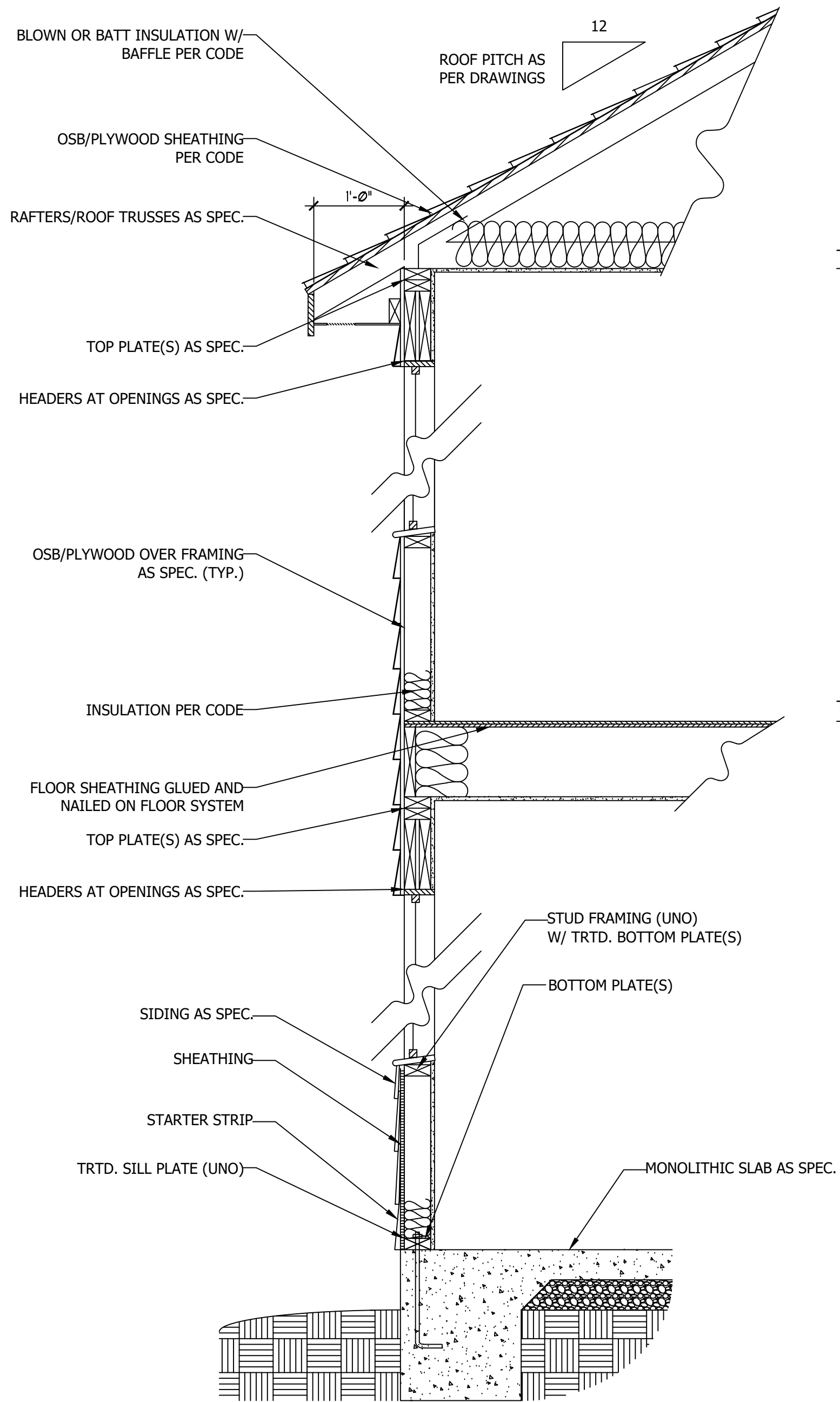
DATE: JUNE 22, 2021
REV.:
SCALE: 1/4" = 1'-0"
DRAWN BY: WG
ENGINEERED BY:
REVIEWED BY:

ROOF PLAN
S-4

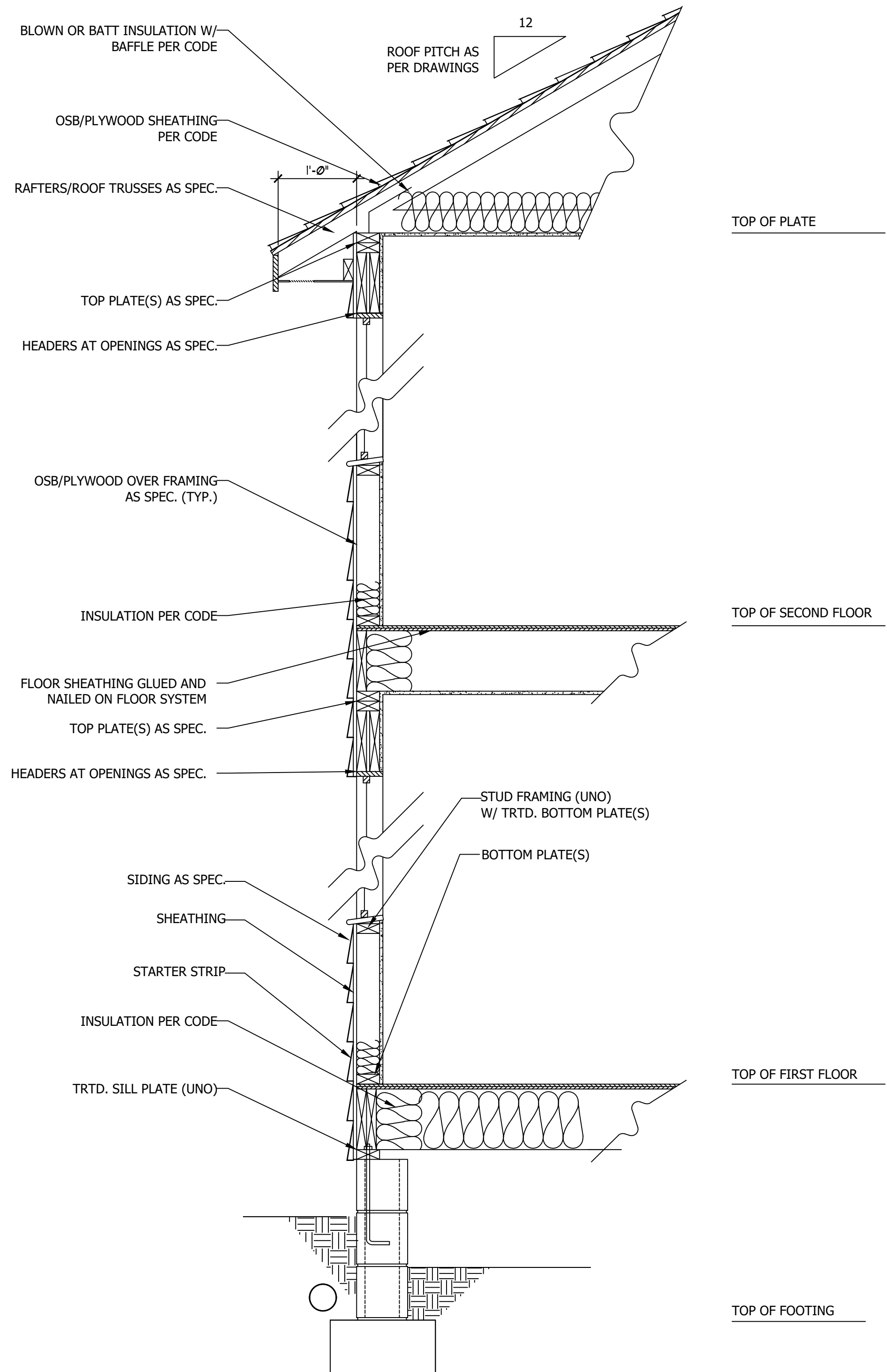
ATTIC VENT CALCULATION:
1484 SQ. FT. OF ATTIC DIVIDED BY
150 REQUIRES 9.9 SQ. FT. OF NET
FREE VENTILATING AREA (MIN.).

- STRUCTURAL NOTES:**
1. ALL FRAMING LUMBER TO BE #2 SPF (UNO).
 2. HIP SPLICES ARE TO BE SPACED A MIN. OF 8'-0". FASTEN MEMBERS WITH THREE ROWS OF 12d NAILS @ 16" O.C. (TYP.)
 3. STICK FRAME OVER-FRAMED ROOF SECTIONS W/ 2 x 8 RIDGES, 2 x 6 RAFTERS @ 16" O.C. AND FLAT 2 x 10 VALLEYS OR USE VALLEY TRUSSES.
 4. FASTEN FLAT VALLEYS TO RAFTERS OR TRUSSES WITH SIMPSON H2.5A HURRICANE TIES @ 32" O.C. MAX. PASS HURRICANE TIES THROUGH NOTCH IN ROOF SHEATHING. EACH RAFTER IS TO BE FASTENED TO THE FLAT VALLEY WITH A MIN. OF (6) 12d TOE NAILS.
 5. REFER TO SECTION R802.11 OF THE 2018 NCRC FOR REQUIRED UPLIFT RESISTANCE AT RAFTERS AND TRUSSES.

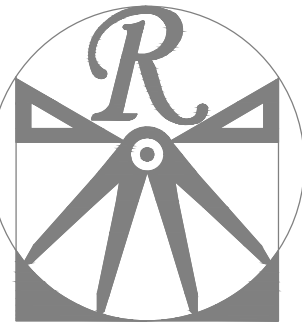




WALL SECTION W/ SLAB
W/ STD. SIDING SHOWN (NTS)



WALL SECTION W/ CRAWL SPACE
W/ STD. SIDING SHOWN (NTS)



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REVIEWED BY:

TYPICAL WALL SECTIONS

D-1



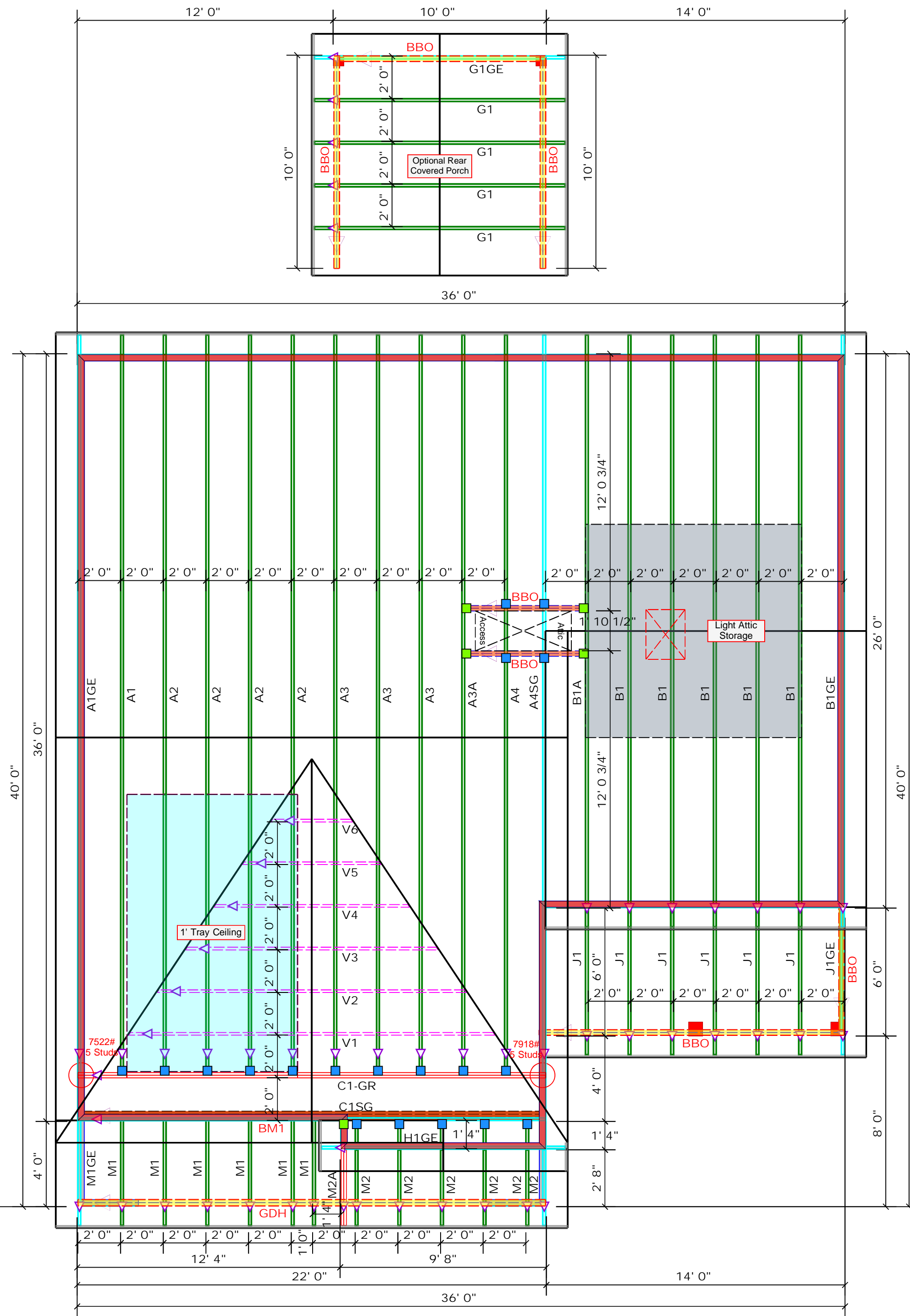
ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature **David Landry**
David Landry

| LOAD CHART FOR JACK STUDS | | | |
|--|---------------------------|----------------|---------------------------|
| (BASED ON TABLES MODEL: S 103) | | | |
| NUMBER OF JACK STUDS REQUIRED BY EACH OF HEADS/BEAMS | | | |
| REACTION (LBS) | REQ. STUDS PER TRUSS HEAD | REACTION (LBS) | REQ. STUDS PER TRUSS HEAD |
| 1700 | 1 | 2550 | 1 |
| 3400 | 2 | 5100 | 2 |
| 5100 | 3 | 7650 | 3 |
| 6800 | 4 | 10200 | 4 |
| 8500 | 5 | 12750 | 5 |
| 10200 | 6 | 15300 | 6 |
| 11900 | 7 | | |
| 13600 | 8 | | |
| 15300 | 9 | | |



Dimension Notes

- All exterior wall to wall dimensions are to face of sheathing unless noted otherwise
- All interior wall dimensions are to face of frame wall unless noted otherwise
- All exterior wall to truss dimensions are to face of frame wall unless noted otherwise

All Walls Shown Are Considered Load Bearing

Roof Area = 2211.85 sq.ft.
Ridge Line = 83.75 ft.
Hip Line = 0 ft.
Horiz. OH = 189.58 ft.
Raked OH = 233.07 ft.
Decking = 76 sheets

| Hatch Legend | |
|--------------|-----------------|
| | Padded HVAC |
| | Tray Ceiling |
| | 2nd Floor Walls |
| | Drop Beam |

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| | HUS26 | USP | 19 | NA | 16d/3-1/2" | 16d/3-1/2" |
| | THD26-2 | USP | 5 | NA | 16d/3-1/2" | 10d/3" |

| Products | | | | |
|----------|--------|-----------------------------|-------|---------|
| PlotID | Length | Product | Plies | Net Qty |
| BM1 | 22' 0" | 1-3/4"x 16" LVL Kerto-S | 3 | 3 |
| BM2 | 15' 0" | 1-3/4"x 16" LVL Kerto-S | 3 | 3 |
| BM3 | 7' 0" | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 2 |
| GDH | 22' 0" | 1-3/4"x 11-7/8" LVL Kerto-S | 2 | 2 |

1 Truss Placement Plan
Scale: 1/4"=1'

| BUILDER | CITY / CO. | ADDRESS | MODEL | DATE REV. | DRAWN BY | SALES REP. |
|---------------|---------------------|--------------------|-------|-----------|--------------|------------|
| Regency Homes | Harnett | Josey Williams Rd. | Roof | 09/2/21 | David Landry | Bob Lewis |
| JOB NAME | Lot 5 Williams Farm | | | | | |
| PLAN | Brinkley "B" / GL | | | | | |
| SEAL DATE | | | | | | |
| QUOTE # | | | | | | |
| JOB # | | | | | | J0921-5286 |

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCS1-B1 and BCS1-B3 provided with the truss delivery package or online @ sbindustry.com

= Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards



RE: J0921-5286
Lot 5 Williams Farm

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Regency Homes Project Name: J0921-5286
Lot/Block: 5 Model: Brinkley
Address: Josey Williams Rd. Subdivision: Williams Farm
City: Erwin State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-10 Wind Speed: 150 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 29 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date | No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|-----|-----------|------------|----------|
| 1 | E16001299 | A1 | 8/3/2021 | 21 | E16001319 | M1GE | 8/3/2021 |
| 2 | E16001300 | A1GE | 8/3/2021 | 22 | E16001320 | M2 | 8/3/2021 |
| 3 | E16001301 | A2 | 8/3/2021 | 23 | E16001321 | M2A | 8/3/2021 |
| 4 | E16001302 | A3 | 8/3/2021 | 24 | E16001322 | V1 | 8/3/2021 |
| 5 | E16001303 | A3A | 8/3/2021 | 25 | E16001323 | V2 | 8/3/2021 |
| 6 | E16001304 | A4 | 8/3/2021 | 26 | E16001324 | V3 | 8/3/2021 |
| 7 | E16001305 | A4SG | 8/3/2021 | 27 | E16001325 | V4 | 8/3/2021 |
| 8 | E16001306 | B1 | 8/3/2021 | 28 | E16001326 | V5 | 8/3/2021 |
| 9 | E16001307 | B1A | 8/3/2021 | 29 | E16001327 | V6 | 8/3/2021 |
| 10 | E16001308 | B1GE | 8/3/2021 | | | | |
| 11 | E16001309 | C1-GR | 8/3/2021 | | | | |
| 12 | E16001310 | C1SG | 8/3/2021 | | | | |
| 13 | E16001311 | D1 | 8/3/2021 | | | | |
| 14 | E16001312 | D1GE | 8/3/2021 | | | | |
| 15 | E16001313 | G1 | 8/3/2021 | | | | |
| 16 | E16001314 | G1GE | 8/3/2021 | | | | |
| 17 | E16001315 | H1GE | 8/3/2021 | | | | |
| 18 | E16001316 | J1 | 8/3/2021 | | | | |
| 19 | E16001317 | J1GE | 8/3/2021 | | | | |
| 20 | E16001318 | M1 | 8/3/2021 | | | | |

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

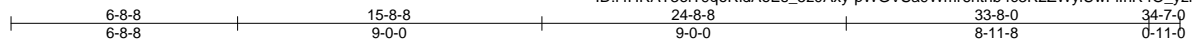


August 03, 2021

| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss A1 | Truss Type COMMON | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001299 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:20 2021 Page 1
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Scale: 3/16"=1'

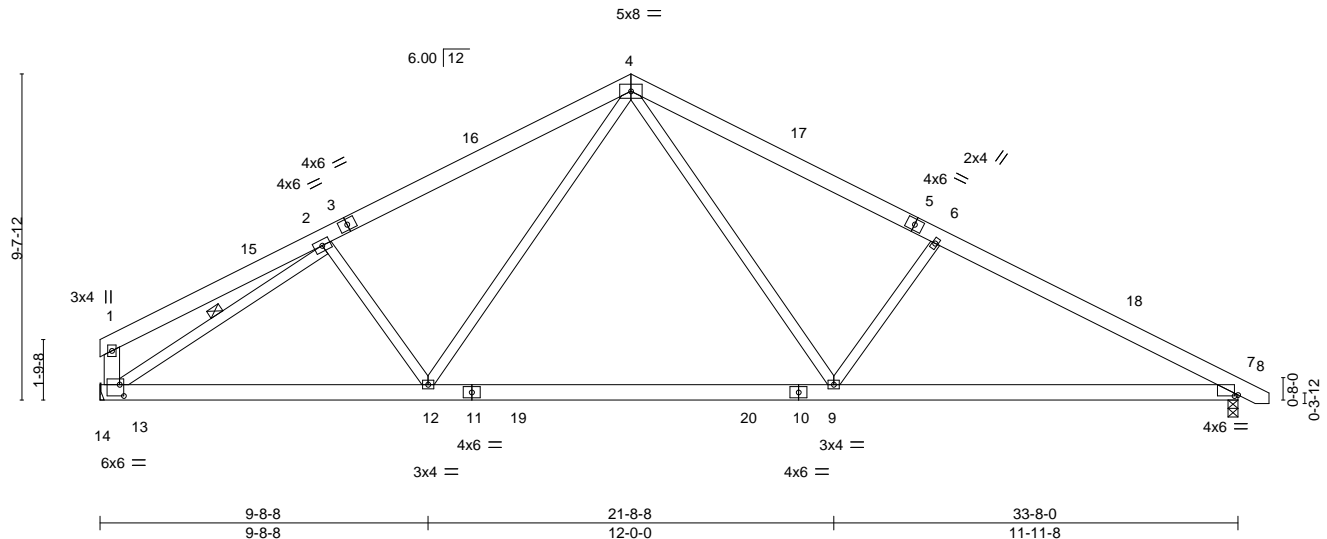


Plate Offsets (X,Y)-- [7:0-1-4,0-0-7], [13:0-1-8,0-4-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|------------------------------|----------|---|----------------|----------|
| TCLL 20.0 | 2-0-0 Plate Grip DOL 1.15 | TC 0.36 | in (loc) l/defl L/d Vert(LL) -0.35 9-12 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.66 | Vert(CT) -0.48 9-12 >833 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.57 | Horz(CT) 0.05 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.07 7-9 >999 240 | Weight: 230 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-13: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-9-4 oc bracing.
WEBS 1 Row at midpt 2-13

REACTIONS. (size) 13=Mechanical, 7=0-3-8
Max Horz 13=-193(LC 13)
Max Uplift 13=-222(LC 12), 7=-263(LC 13)
Max Grav 13=1333(LC 1), 7=1379(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-300/179, 2-4=-1841/805, 4-6=-2084/871, 6-7=-2336/875, 1-13=-254/214
BOT CHORD 12-13=-482/1658, 9-12=-230/1276, 7-9=-635/1990
WEBS 2-12=-242/311, 4-12=-140/593, 4-9=-273/970, 6-9=-522/454, 2-13=-1806/660

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 15-8-8, Exterior(2) 15-8-8 to 20-1-5, Interior(1) 20-1-5 to 34-4-10 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.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=222, 7=263.
 - 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.



August 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

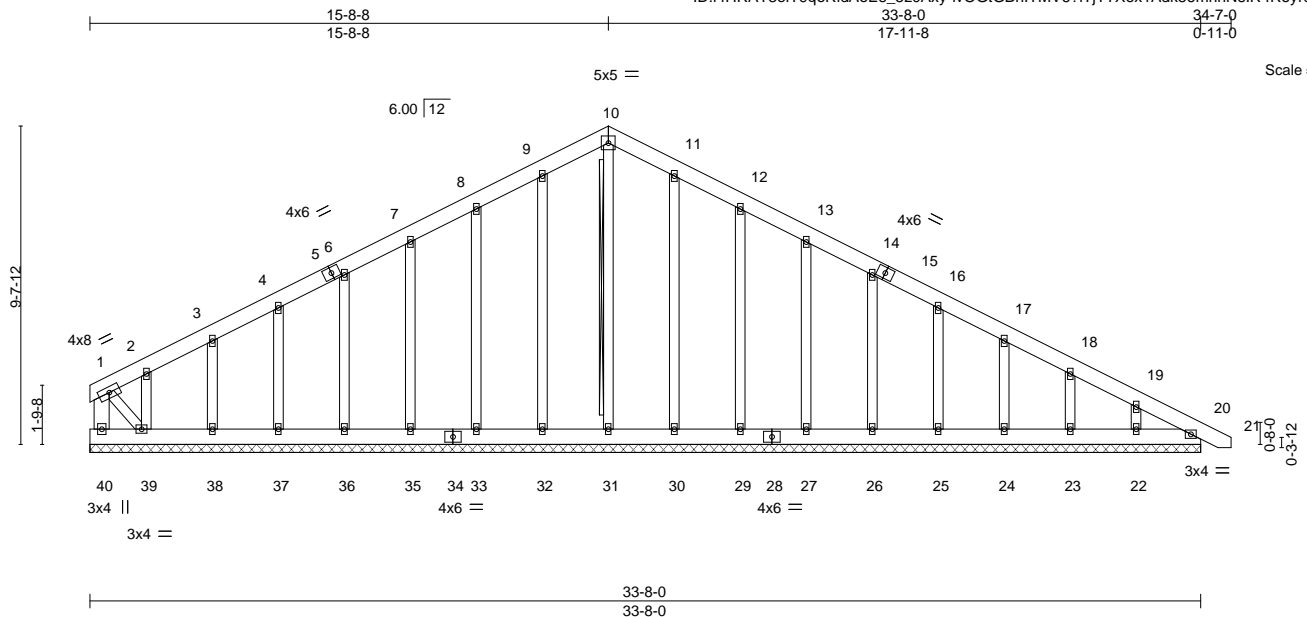


818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|---------------|------------------------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss A1GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001300 |
|-------------------|---------------|------------------------------------|----------|----------|---|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:22 2021 Page 1
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| | | | | | |
|----------------------|----------------------|-------------|--------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.06 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.03 | Vert(LL) 0.00 20 n/r 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.14 | Vert(CT) 0.00 20 n/r 120 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.01 20 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 288 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 1-39: 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 10-31
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

All bearings 33-8-0.
 (lb) - Max Horz 40=-309(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 32, 30, 20 except 40=-119(LC 17), 33=-119(LC 12), 35=-108(LC 12), 36=-107(LC 12), 37=-108(LC 12), 38=-110(LC 12), 39=-341(LC 12), 29=-122(LC 13), 27=-108(LC 13), 26=-107(LC 13), 25=-108(LC 13), 24=-108(LC 13), 23=-107(LC 13), 22=-134(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 31, 32, 33, 35, 36, 37, 38, 39, 30, 29, 27, 26, 25, 24, 23, 22, 20 except 40=328(LC 12)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-40=-306/120, 7-8=-109/273, 8-9=-138/357, 9-10=-158/412, 10-11=-158/412, 11-12=-138/357, 12-13=-109/273, 19-20=-254/80
 BOT CHORD 39-40=-159/298, 38-39=-73/258, 37-38=-73/258, 36-37=-73/258, 35-36=-73/258, 33-35=-73/258, 32-33=-73/258, 31-32=-73/258, 30-31=-73/258, 29-30=-73/258, 27-29=-73/258, 26-27=-73/258, 25-26=-73/258, 24-25=-73/258, 23-24=-73/258, 22-23=-73/258, 20-22=-73/258
 WEBS 1-39=-102/304

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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
- Truss designed for wind loads in the plane of the truss 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 30, 20 except (jt=lb) 40=119, 33=119, 35=108, 36=107, 37=108, 38=110, 39=341, 29=122, 27=108, 26=107, 25=108, 24=108, 23=107, 22=134.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and



August 3, 2021

Comtech, Inc. Standard ANSI/TPI 1.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|----------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001300 |
| J0921-5286 | A1GE | COMMON SUPPORTED GAB | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:22 2021 Page 2
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NOTES-

11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



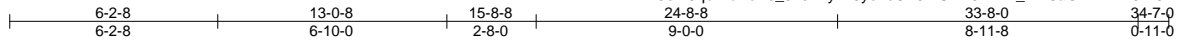
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|--------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001301 |
| J0921-5286 | A2 | Roof Special | 4 | 1 | Job Reference (optional) | |

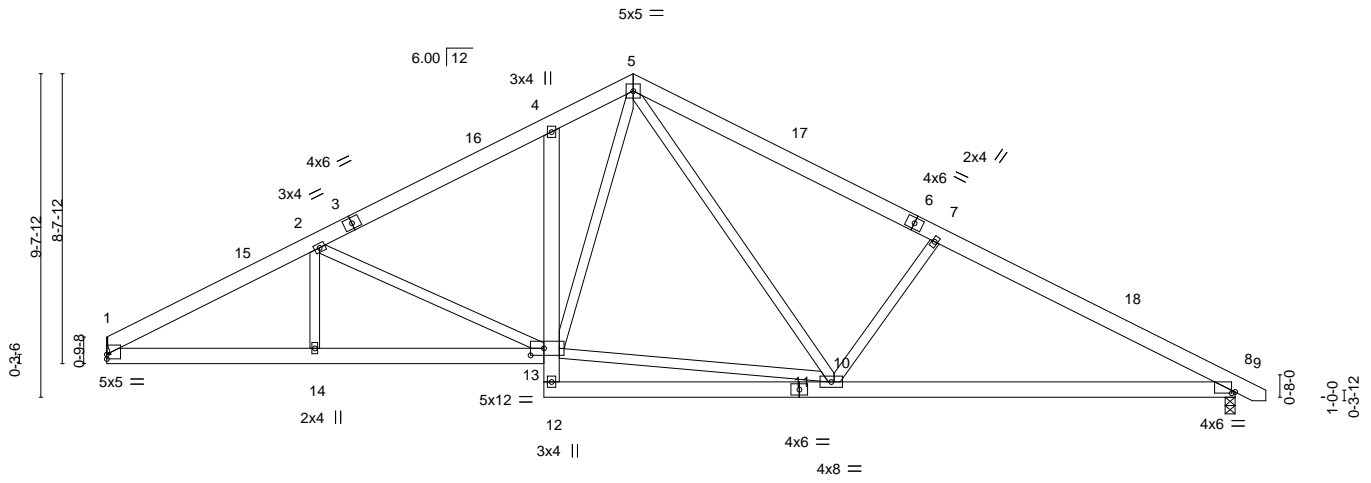
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:23 2021 Page 1

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Scale = 1:64.7



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [1:0-0-0,0-1-11], [8:0-1-4,0-0-7], [13:0-4-12,0-2-8] |
|-----------------------|--|

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.36 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.50 | Vert(LL) -0.14 8-10 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.58 | Vert(CT) -0.31 8-10 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.06 8 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.07 8-10 >999 240 | Weight: 250 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|--|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 4-9-10 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 9-7-15 oc bracing. |
| WEBS 2x4 SP No.2 | |

REACTIONS. (size) 1=Mechanical, 8=0-3-8
 Max Horz 1=180(LC 13)
 Max Uplift 1=232(LC 12), 8=271(LC 13)
 Max Grav 1=1338(LC 1), 8=1391(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=2401/917, 2-4=1846/799, 4-5=1715/885, 5-7=1992/885, 7-8=2282/897
 BOT CHORD 1-14=633/2050, 13-14=633/2050, 4-13=270/273, 10-12=64/251, 8-10=652/1953
 WEBS 2-14=0/303, 2-13=561/329, 10-13=188/1073, 5-13=355/764, 5-10=253/676, 7-10=522/457

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 15-8-8, Exterior(2) 15-8-8 to 20-1-5, Interior(1) 20-1-5 to 34-4-10 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.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=232, 8=271.
 - 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.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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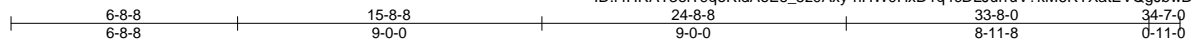
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss A3 | Truss Type COMMON | Qty 3 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001302 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:24 2021 Page 1
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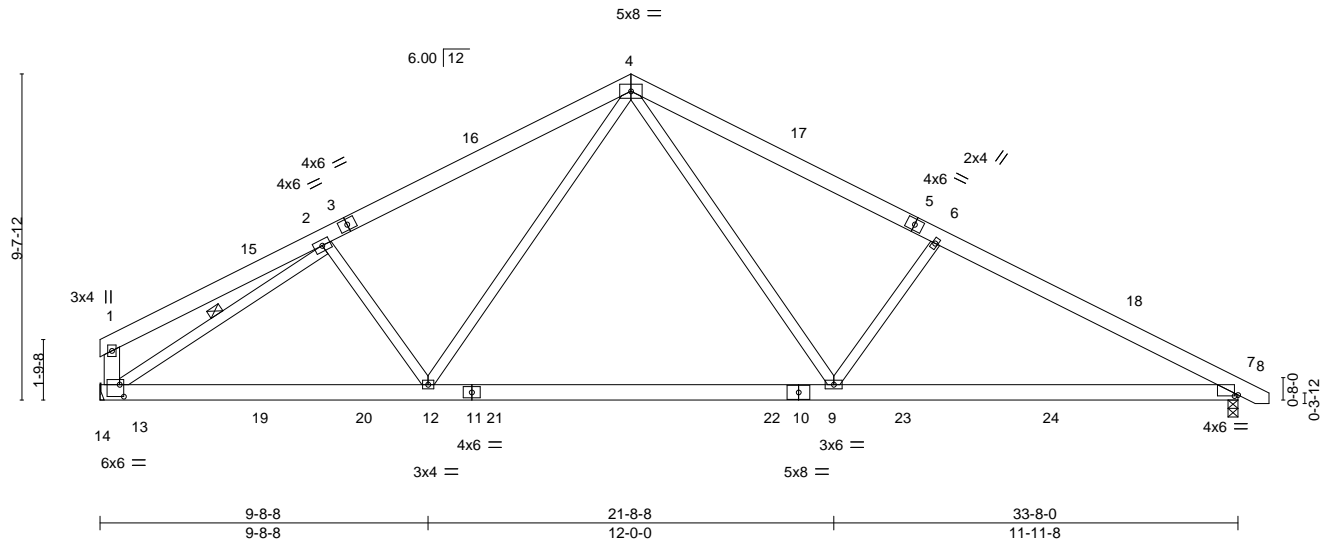


Plate Offsets (X,Y)-- [7:0-1-4,0-0-7], [13:0-1-8,0-4-4]

| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.36 | Vert(LL) -0.30 9-12 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.78 | Vert(CT) -0.42 9-12 >946 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.57 | Horz(CT) 0.06 7 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.07 7-9 >999 240 | Weight: 230 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-13: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-3 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-9-4 oc bracing.
 WEBS 1 Row at midt 2-13

REACTIONS.

(size) 13=Mechanical, 7=0-3-8
 Max Horz 13=-193(LC 13)
 Max Uplift 13=-222(LC 12), 7=-263(LC 13)
 Max Grav 13=1525(LC 2), 7=1551(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-323/179, 2-4=-2090/805, 4-6=-2413/871, 6-7=-2646/875, 1-13=-255/214
 BOT CHORD 12-13=-482/1866, 9-12=-230/1449, 7-9=-635/2287
 WEBS 2-12=-242/311, 4-12=-140/683, 4-9=-273/1190, 6-9=-522/454, 2-13=-1940/660

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 15-8-8, Exterior(2) 15-8-8 to 20-1-5, Interior(1) 20-1-5 to 34-4-10 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 2-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=222, 7=263.
- 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.



August 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

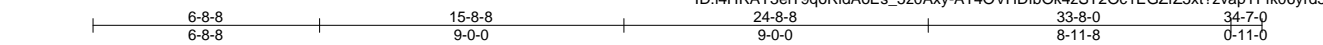


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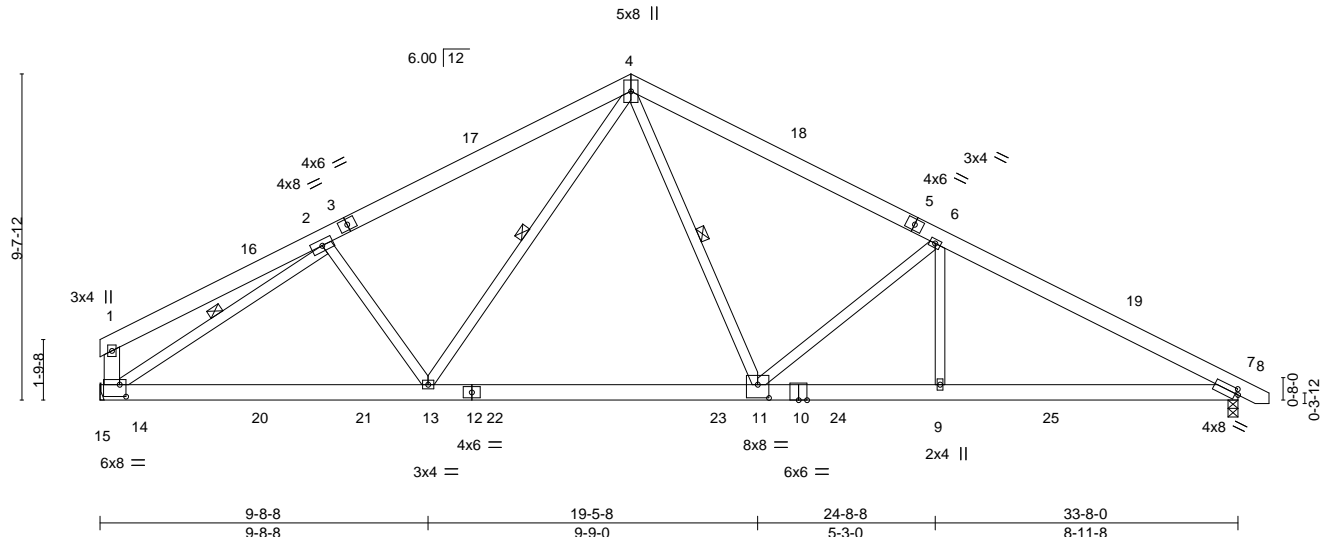
| | | | | | | |
|-------------------|--------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss A3A | Truss Type COMMON | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001303 |
|-------------------|--------------|----------------------|----------|----------|---|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:25 2021 Page 1
ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-AT4OVHDfbOk4zST2Oc1EGZiZ5xt?zvapYFfk06yrd5y



Scale: 3/16"=1'



| | |
|-----------------------|---|
| Plate Offsets (X,Y)-- | [7:0-1-0,0-1-13], [11:0-4-0,0-4-12], [14:0-2-4,0-4-4] |
|-----------------------|---|

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.56 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.97 | Vert(LL) -0.19 11-13 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.77 | Vert(CT) -0.32 11-13 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-S | Horz(CT) 0.09 7 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.21 9-11 >999 240 | Weight: 237 lb | FT = 20% |

| LUMBER- | BRACING- |
|--|---|
| TOP CHORD 2x6 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 3-4-9 oc purlins, except end verticals. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 5-9-3 oc bracing. |
| WEBS 2x4 SP No.2 *Except* 1-14: 2x6 SP No.1 | WEBS 1 Row at midpt 4-13, 4-11, 2-14 |

REACTIONS. (size) 14=Mechanical, 7=0-3-8
 Max Horz 14=-193(LC 13)
 Max Uplift 14=-373(LC 12), 7=-491(LC 13)
 Max Grav 14=2046(LC 19), 7=2357(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-435/227, 2-4=-2926/1389, 4-6=-3695/1822, 6-7=-4439/2001, 1-14=-315/241
 BOT CHORD 13-14=-948/2587, 11-13=-817/2396, 9-11=-1625/3860, 7-9=-1625/3860
 WEBS 2-13=-67/282, 4-13=-80/441, 4-11=-1088/2378, 6-11=-890/520, 2-14=-2661/1191,
 6-9=-78/489

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 15-8-8, Exterior(2) 15-8-8 to 20-1-5, Interior(1) 20-1-5 to 34-4-10 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 2-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BC DL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=373, 7=491.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 985 lb down and 552 lb up at 19-7-12, and 575 lb down and 322 lb up at 21-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 (plf)
 Vert: 1-4=-60, 4-8=-60, 7-15=-20



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Continued on page 2

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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001303 |
| J0921-5286 | A3A | COMMON | 1 | 1 | Job Reference (optional) | |

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8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:25 2021 Page 2
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LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 11=-985(F) 24=-575(F)

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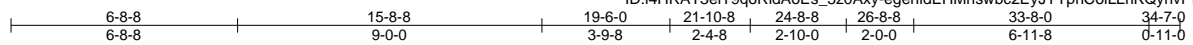


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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss A4 | Truss Type GABLE | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001304 |
|-------------------|-------------|---------------------|----------|----------|---|-----------|

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Scale: 3/16"=1'

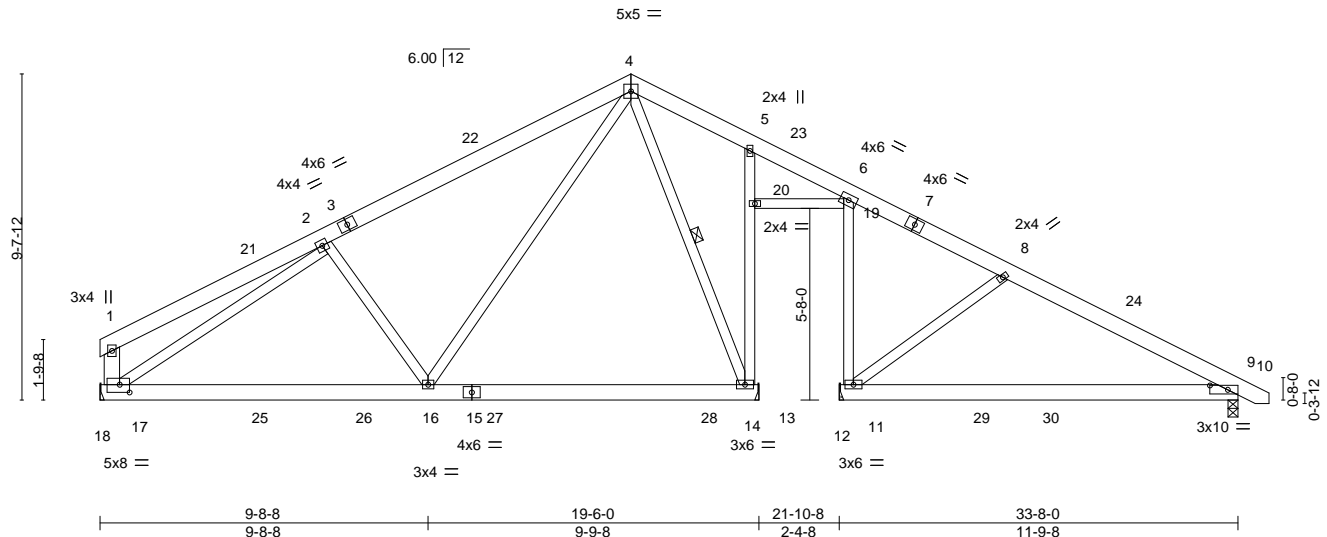


Plate Offsets (X,Y)-- [9:0-6-6,0-1-8], [17:0-3-8,0-2-12]

| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|----------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.31 | Vert(LL) -0.17 14-16 >999 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.49 | Vert(CT) -0.34 9-11 >397 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.86 | Horz(CT) 0.02 11 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.02 9-11 >999 240 | Weight: 246 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-17: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-14

REACTIONS.

All bearings Mechanical except (jt=length) 9=0-3-8.
 (lb) - Max Horz 17=-193(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 14 except 17=-182(LC 12), 9=-196(LC 13), 11=-245(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 17=828(LC 2), 9=504(LC 24), 11=551(LC 1), 14=1061(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-908/575, 4-5=-224/500, 5-6=-193/438, 6-8=-168/348, 8-9=-435/462
 BOT CHORD 16-17=-303/936, 14-16=-24/294, 9-11=-256/337
 WEBS 2-16=-354/361, 4-16=-191/874, 2-17=-850/476, 4-14=-819/68, 8-11=-421/319

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 15-8-8, Exterior(2) 15-8-8 to 20-1-5, Interior(1) 20-1-5 to 34-4-10 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 2-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 17=182, 9=196, 11=245.
- 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.



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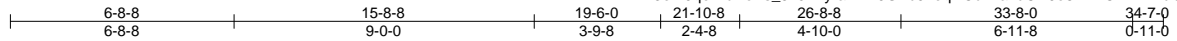


| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001305 |
| J0921-5286 | A4SG | GABLE | 1 | 1 | Job Reference (optional) | |

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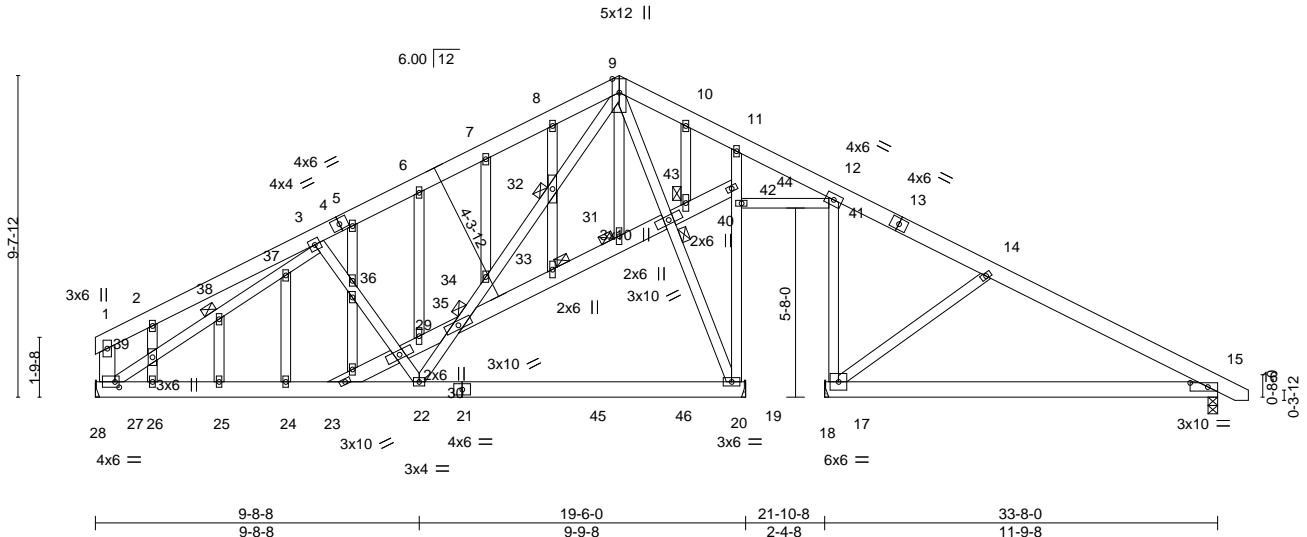


Plate Offsets (X,Y)-- [15:0-6-6,0-1-8], [27:0-1-8,0-2-0]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.21 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.47 | Vert(LL) -0.17 15-17 >813 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.24 | Vert(CT) -0.34 15-17 >397 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.02 17 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.03 15-17 >999 240 | Weight: 322 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-27,23-29,29-30,30-43,43-44: 2x6 SP No.1
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 9-20
 JOINTS 1 Brace at Jt(s): 30, 31, 32, 33, 38, 40

REACTIONS.

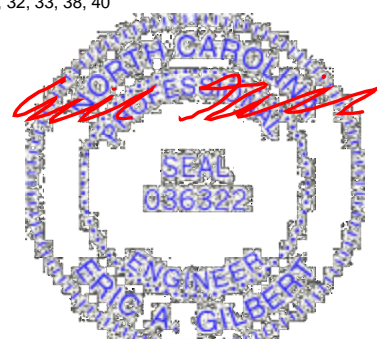
All bearings Mechanical except (jt=length) 15=0-3-8.
 (lb) - Max Horz 27=-307(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 27=-345(LC 12), 15=-348(LC 13), 17=-387(LC 13), 20=-181(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 27=767(LC 1), 15=507(LC 1), 17=585(LC 1), 20=827(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-386/256, 2-3=-376/362, 3-5=-810/737, 5-6=-771/742, 6-7=-791/836, 7-8=-777/895, 8-9=-805/959, 9-10=-292/607, 10-11=-307/588, 11-12=-240/505, 12-14=-172/412, 14-15=-442/581, 1-27=-295/181
 BOT CHORD 26-27=-425/712, 25-26=-425/712, 24-25=-425/712, 23-24=-425/712, 22-23=-242/463, 15-17=-360/343
 WEBS 22-29=-154/289, 22-30=-127/467, 30-34=-414/598, 32-34=-501/656, 9-32=-534/709, 27-39=-521/364, 38-39=-519/353, 37-38=-524/364, 3-37=-604/418, 23-29=-205/333, 29-35=-184/323, 30-35=-263/392, 20-42=-278/170, 42-44=-278/170, 9-43=-528/190, 20-43=-510/147, 14-17=-421/452

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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
- Truss designed for wind loads in the plane of the truss 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.
- Gable studs spaced at 2-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 27, 348 lb uplift at joint 15, 387 lb uplift at joint 17 and 181 lb uplift at joint 20.
- 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.



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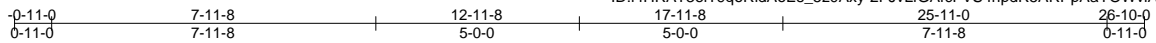
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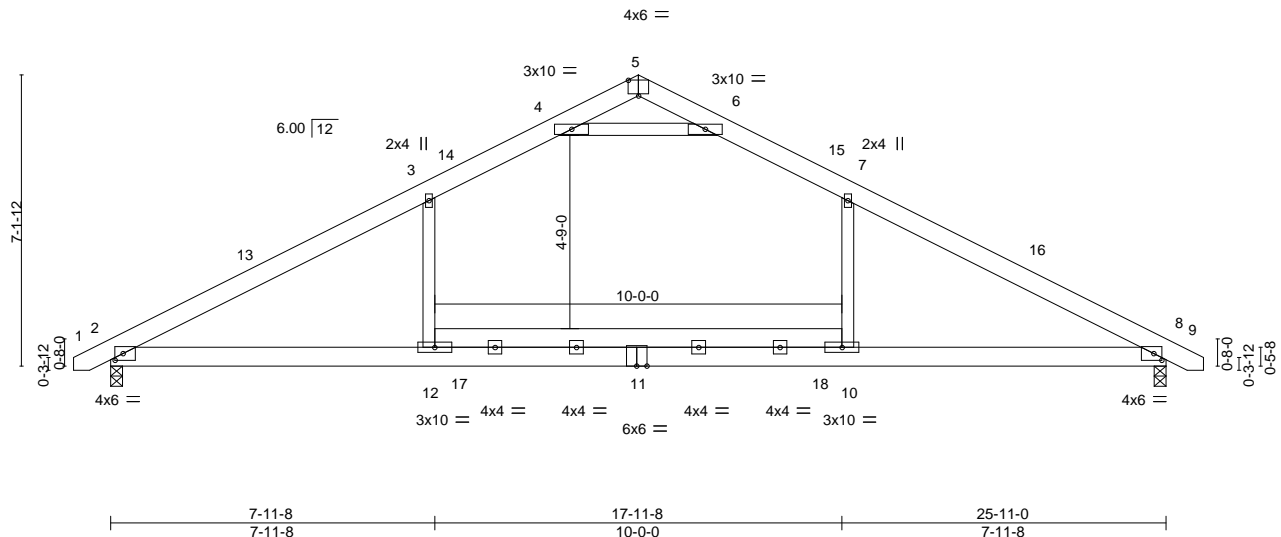
| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss B1 | Truss Type COMMON | Qty 5 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001306 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

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Scale = 1:53.3



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [2:0-2-6,0-2-0], [5:0-3-0,Edge], [8:0-2-6,0-2-0] |
|-----------------------|--|

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.85 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.43 | Vert(LL) -0.28 10-12 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.60 | Vert(CT) -0.46 10-12 >663 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.04 8 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.23 2-12 >999 240 | Weight: 174 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-4-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=119(LC 11)
Max Uplift 2=203(LC 12), 8=203(LC 13)
Max Grav 2=1140(LC 2), 8=1140(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1772/588, 3-4=-1401/651, 4-5=-286/978, 5-6=-286/978, 6-7=-1401/651, 7-8=-1772/588
BOT CHORD 2-12=-347/1438, 10-12=-350/1438, 8-10=-347/1438
WEBS 3-12=0/497, 7-10=0/497, 4-6=-2532/1014

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-11-8, Exterior(2) 12-11-8 to 17-4-5, Interior(1) 17-4-5 to 26-7-10 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.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 203 lb uplift at joint 2 and 203 lb uplift at joint 8.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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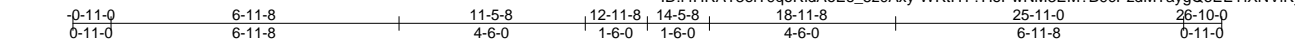
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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001307 |
| J0921-5286 | B1A | COMMON | 1 | 1 | Job Reference (optional) | |

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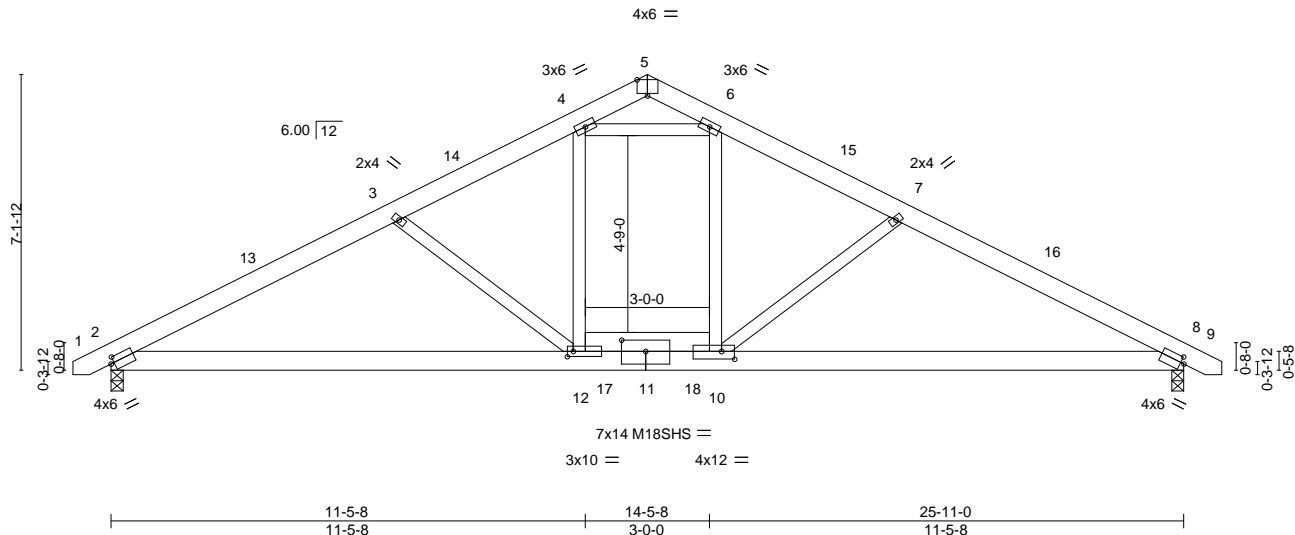


Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [5:0-3-0,Edge], [8:0-1-0,0-1-12], [10:0-3-12,0-2-4], [11:0-7-0,0-3-4], [12:0-1-12,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.32 | Vert(LL) -0.11 | 2-12 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.64 | Vert(CT) -0.25 | 2-12 | >999 | 240 | M18SHS | 244/190 |
| BCLL 0.0 * | Rep Stress Incr NO | WB 0.48 | Horz(CT) 0.06 | 8 | n/a | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | Wind(LL) 0.13 | 2-12 | >999 | 240 | | |
| | | | | | | | Weight: 177 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-9-10 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=119(LC 11)
 Max Uplift 2=396(LC 12), 8=388(LC 13)
 Max Grav 2=1874(LC 1), 8=1840(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3348/1644, 3-4=-3043/1545, 4-5=-292/154, 5-6=-354/189, 6-7=-3015/1532, 7-8=-3289/1611
 BOT CHORD 2-12=-1309/2894, 10-12=-1071/2627, 8-10=-1284/2836
 WEBS 4-12=-594/1233, 6-10=-482/1041, 4-6=-2325/1271, 3-12=-377/306, 7-10=-304/265

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-11-8, Exterior(2) 12-11-8 to 17-4-5, Interior(1) 17-4-5 to 26-7-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 396 lb uplift at joint 2 and 388 lb uplift at joint 8.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 985 lb down and 552 lb up at 11-10-12, and 575 lb down and 322 lb up at 14-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-9=-60, 2-8=-20



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Continued on page 2

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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001307 |
| J0921-5286 | B1A | COMMON | 1 | 1 | Job Reference (optional) | |

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:30 2021 Page 2
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LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 17=-985(B) 18=-575(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



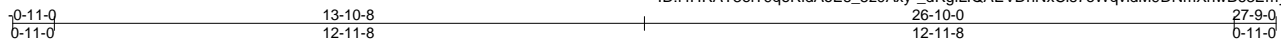
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|----------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001308 |
| J0921-5286 | B1GE | COMMON SUPPORTED GAB | 1 | 1 | Job Reference (optional) | |

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Scale: 1/4"=1'

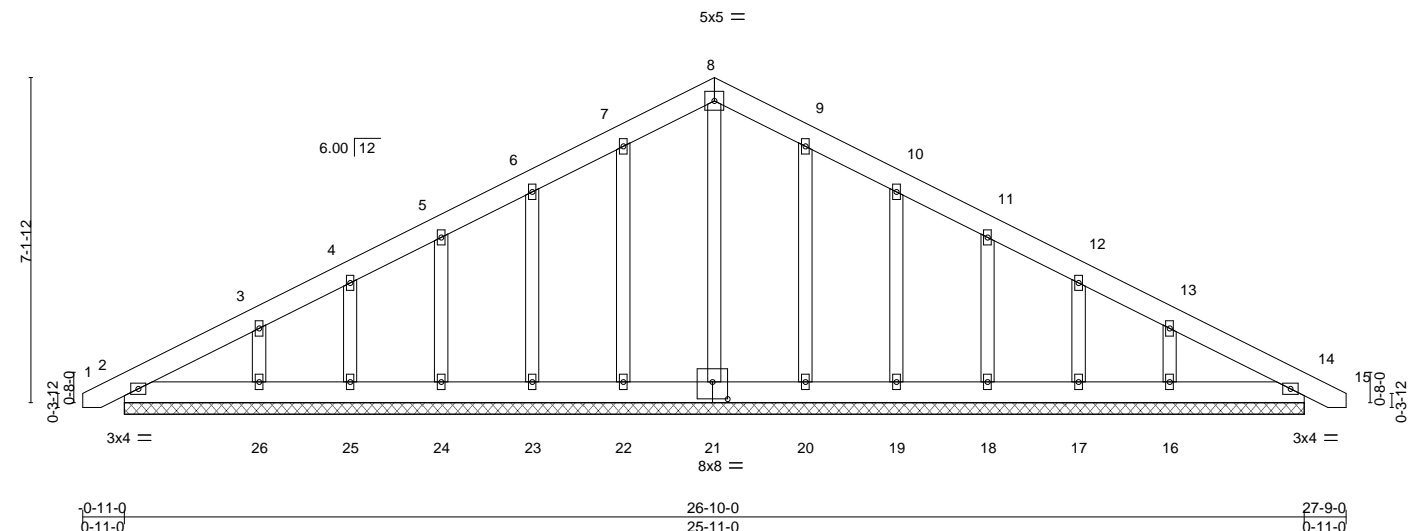


Plate Offsets (X,Y)-- [21:0-4-0,0-4-8]

| | | | | | |
|----------------------|----------------------|-------------|--------------------------|----------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.04 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.03 | Vert(LL) 0.00 14 n/r 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.10 | Vert(CT) 0.00 14 n/r 120 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 14 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 191 lb | FT = 20% |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 25-11-0.
(lb) - Max Horz 2=184(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 25, 20, 17, 14 except 23=115(LC 12), 24=110(LC 12), 26=171(LC 12), 19=118(LC 13), 18=109(LC 13), 16=167(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-120/304, 8-9=-120/303

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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
 - Truss designed for wind loads in the plane of the truss 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 25, 20, 17, 14 except (jt=lb) 23=115, 24=110, 26=171, 19=118, 18=109, 16=167.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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| | | | | | | |
|-------------------|----------------|-----------------------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss C1-GR | Truss Type Roof Special Girder | Qty 1 | Ply 2 | Lot 5 Williams Farm Job Reference (optional) | E16001309 |
|-------------------|----------------|-----------------------------------|----------|----------|---|-----------|

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Scale = 1:57.5

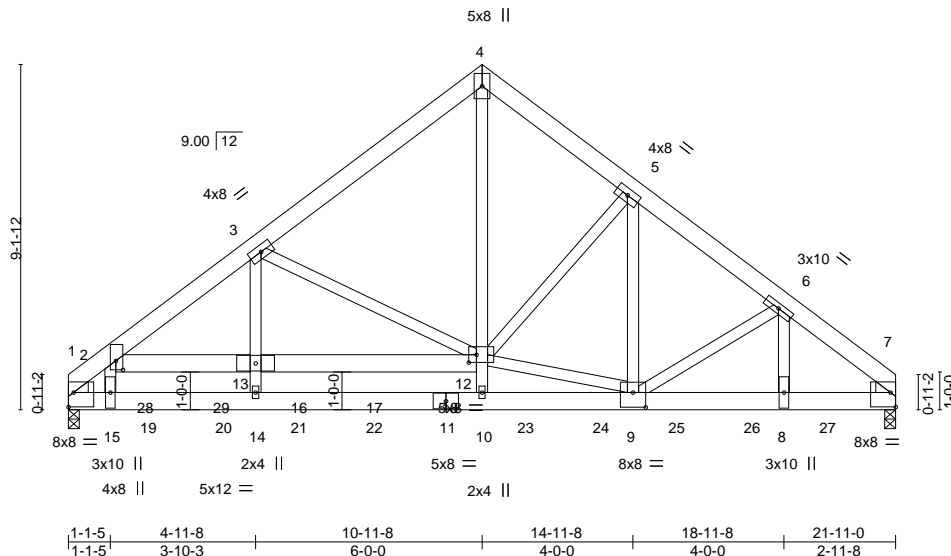


Plate Offsets (X,Y)-- [1:Edge,0-4-10], [2:0-2-14,0-2-4], [7:Edge,0-4-10], [9:0-4-0,0-4-12], [12:0-2-8,0-2-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.86 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.73 | Vert(LL) -0.15 12-13 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.91 | Vert(CT) -0.31 12-13 >843 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-S | Horz(CT) 0.05 7 n/a n/a | | |
| | Code IRC2015/TP12014 | | Wind(LL) 0.15 12-13 >999 240 | | |
| | | | | Weight: 399 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2 , Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 7=0-3-8
 Max Horz 1=275(LC 25)
 Max Uplift 1=1263(LC 8), 7=1390(LC 9)
 Max Grav 1=7583(LC 1), 7=7705(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-10129/1691, 2-3=-9954/1689, 3-4=-6372/1197, 4-5=-6163/1169, 5-6=-8950/1599,
 6-7=-10911/1947
 BOT CHORD 12-13=-199/1348, 1-15=-1112/6124, 14-15=-1112/6124, 10-14=-1192/6650,
 9-10=-1203/6789, 8-9=-1363/7919, 7-8=-1363/7919, 2-13=-266/1793
 WEBS 13-14=-158/1269, 3-13=-496/3482, 3-12=-3357/714, 5-9=-681/4032, 10-12=-123/1345,
 4-12=-1276/7071, 9-12=-232/708, 5-12=-3363/728, 2-15=-386/1995, 6-9=-955/322,
 6-8=-446/2474

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)



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Continued on page 02

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 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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| | | | | | | |
|-------------------|----------------|-----------------------------------|----------|-----------------|---|-----------|
| Job J0921-5286 | Truss C1-GR | Truss Type Roof Special Girder | Qty 1 | Ply 2 | Lot 5 Williams Farm Job Reference (optional) | E16001309 |
|-------------------|----------------|-----------------------------------|----------|-----------------|---|-----------|

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:33 2021 Page 2
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NOTES-

- 8) 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.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1313 lb down and 242 lb up at 2-0-12, 1318 lb down and 252 lb up at 4-0-12, 1318 lb down and 252 lb up at 6-0-12, 1318 lb down and 252 lb up at 8-0-12, 1318 lb down and 252 lb up at 10-0-12, 1505 lb down and 242 lb up at 12-0-12, 1505 lb down and 242 lb up at 14-0-12, 1505 lb down and 242 lb up at 16-0-12, and 2003 lb down and 393 lb up at 18-0-12, and 808 lb down and 202 lb up at 20-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-4=-60, 4-7=-60, 12-29=-20, 1-7=-20, 2-29=-20

Concentrated Loads (lb)

Vert: 16=-1318(B) 17=-1318(B) 18=-1318(B) 19=-1313(B) 20=-1318(B) 23=-1313(B) 24=-1313(B) 25=-1313(B) 26=-1934(B) 27=-739(B)

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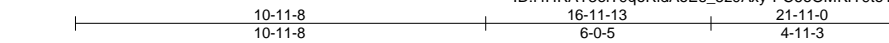


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| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss C1SG | Truss Type GABLE | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001310 |
|-------------------|---------------|---------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:34 2021 Page 1
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5x5 =

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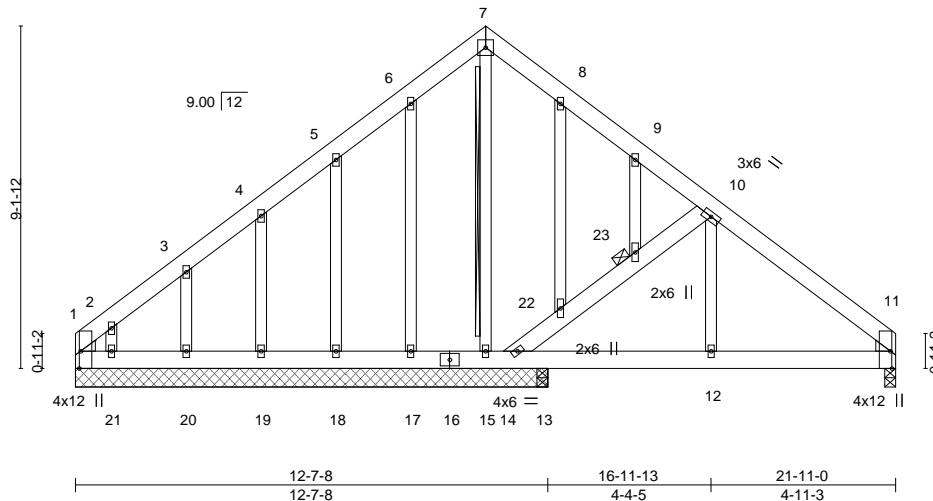


Plate Offsets (X,Y)-- [1:0-5-8,Edge], [11:0-5-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.14 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.12 | Vert(LL) -0.00 11-12 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.12 | Vert(CT) -0.01 11-12 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 11 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.01 11-12 >999 240 | Weight: 191 lb | FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 10-12: 2x4 SP No.2
 OTHERS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.2, Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
 10-0-0 oc bracing: 13-14,12-13,11-12.
 WEBS T-Brace: 2x4 SPF No.2 - 7-15
 Fasten (2X) T and I braces to narrow edge of web with 10d
 (0.131"x3") nails, 6in o.c.,with 3in minimum end distance.
 Brace must cover 90% of web length.
 JOINTS 1 Brace at Jt(s): 23

REACTIONS.

All bearings 12-7-8 except (jt=length) 11=0-3-8, 13=0-3-8.
 (lb) - Max Horz 1=344(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=222(LC 10), 11=139(LC 13),
 14=335(LC 13), 17=108(LC 12), 18=159(LC 12), 19=144(LC 12), 20=157(LC
 12), 21=257(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 21, 13 except
 1=369(LC 12), 11=390(LC 1), 14=281(LC 20), 15=257(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=492/348, 2-3=311/231, 10-11=423/170
 BOT CHORD 1-21=247/331, 20-21=247/331, 19-20=247/331, 18-19=247/331, 17-18=247/331,
 15-17=247/331, 14-15=247/331, 13-14=12/279, 12-13=12/279, 11-12=12/279
 WEBS 14-22=618/439, 22-23=539/373, 10-23=542/374, 2-21=236/254

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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
- Truss designed for wind loads in the plane of the truss 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.
- Gable studs spaced at 2-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 222 lb uplift at joint 1, 139 lb uplift at joint 11, 335 lb uplift at joint 14, 108 lb uplift at joint 17, 159 lb uplift at joint 18, 144 lb uplift at joint 19, 157 lb uplift at joint 20 and 257 lb uplift at joint 21.
- 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.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



August 3, 2021

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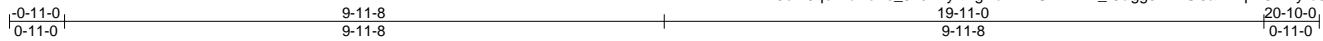


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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001311 |
| J0921-5286 | D1 | COMMON | 5 | 1 | Job Reference (optional) | |

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Scale = 1:36.0

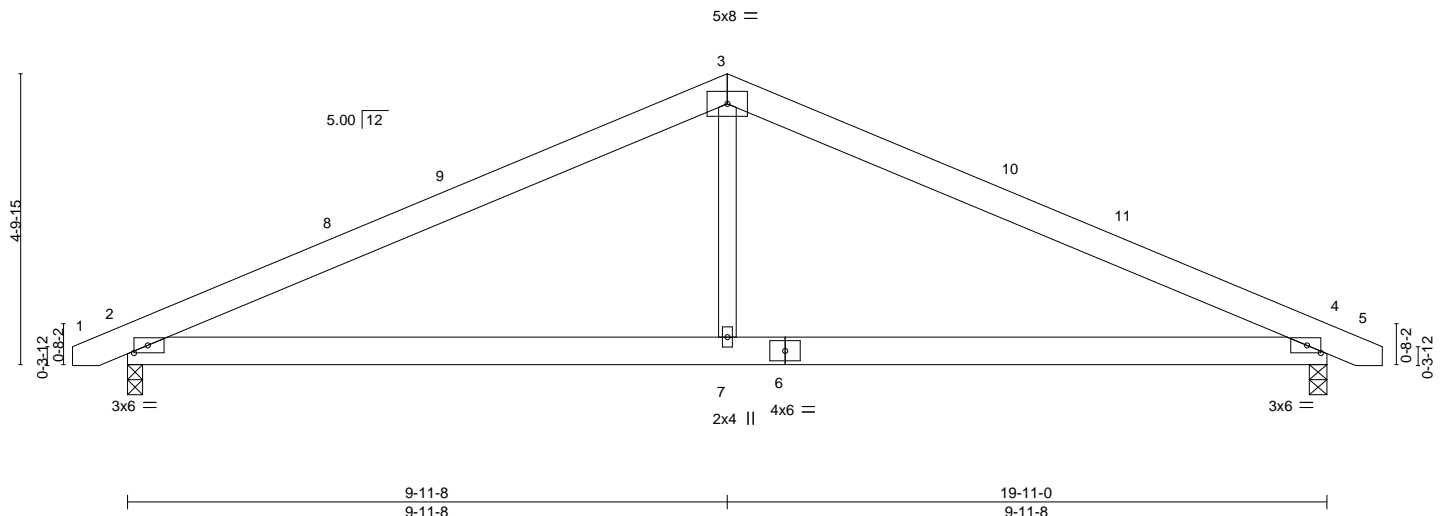


Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [4:0-2-12,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.50 | Vert(LL) -0.05 | 2-7 | >999 | 360 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.37 | Vert(CT) -0.13 | 2-7 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.11 | Horz(CT) 0.02 | 4 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) 0.05 | 2-7 | >999 | 240 | Weight: 108 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-3-8, 2=0-3-0
 Max Horz 2=-71(LC 17)
 Max Uplift 4=-163(LC 13), 2=-162(LC 12)
 Max Grav 4=836(LC 1), 2=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1239/498, 3-4=-1240/498
 BOT CHORD 2-7=-293/1030, 4-7=-293/1030
 WEBS 3-7=0/477

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-6 to 3-8-7, Interior(1) 3-8-7 to 9-11-8, Exterior(2) 9-11-8 to 14-4-5, Interior(1) 14-4-5 to 20-7-6 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.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 4 and 162 lb uplift at joint 2.
 - 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.



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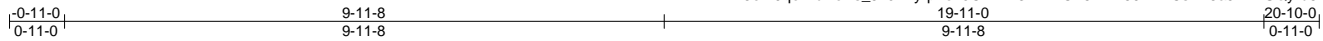
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



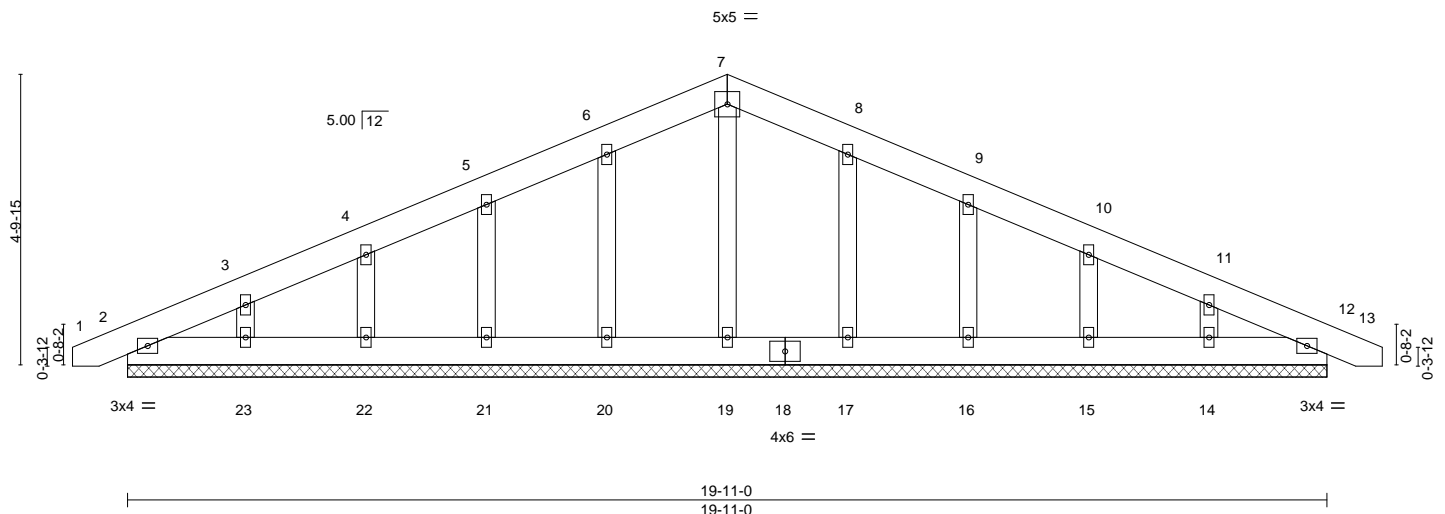
| | | | | | | |
|-------------------|---------------|---------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss D1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001312 |
|-------------------|---------------|---------------------|----------|----------|---|-----------|

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Scale = 1:36.0



| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|---------------|-------------------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.03 | Vert(LL) 0.00 12 n/r 120 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.01 | Vert(CT) 0.00 12 n/r 120 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.03 | Horz(CT) 0.00 12 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | | Weight: 130 lb FT = 20% |

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 19-11-0.
(lb) - Max Horz 2=-120(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 20, 22, 17, 15 except 21=-102(LC 12), 23=-116(LC 12), 16=-103(LC 13), 14=-112(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 23, 17, 16, 15, 14

FORCES.

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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
- Truss designed for wind loads in the plane of the truss 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 20, 22, 17, 15 except (jt=lb) 21=102, 23=116, 16=103, 14=112.
- 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.



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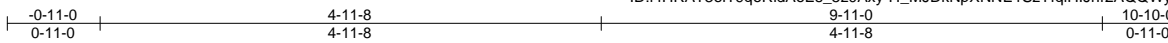
818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001313 |
| J0921-5286 | G1 | COMMON | 4 | 1 | Job Reference (optional) | |

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ID:I4HRAT3elT9qoRldAoEs_5z0Axy-H_MJdkNpXNNE1SzYfqIHJhr2AQQWyyjXnJw_syr5d1



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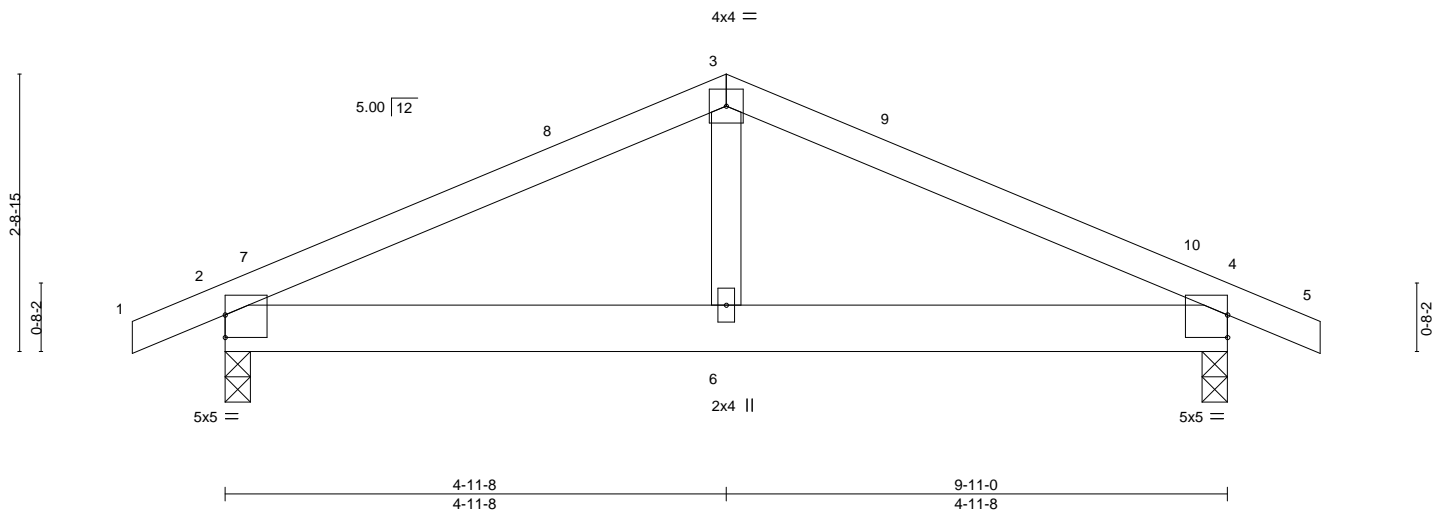


Plate Offsets (X,Y)-- [2:0-0-0,0-2-11], [4:Edge,0-2-11]

| | | | | | |
|----------------------|----------------------|-------------|-----------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.29 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.57 | Vert(LL) 0.03 2-6 >999 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.05 | Vert(CT) -0.01 4-6 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) -0.00 4 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 45 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-2-9 oc bracing.

REACTIONS. (size) 2=0-3-0, 4=0-3-0
 Max Horz 2=-39(LC 17)
 Max Uplift 2=-225(LC 8), 4=-225(LC 9)
 Max Grav 2=449(LC 1), 4=449(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-554/872, 3-4=-554/872
 BOT CHORD 2-6=-667/437, 4-6=-667/437
 WEBS 3-6=-461/239

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-11-8, Exterior(2) 4-11-8 to 9-4-5, Interior(1) 9-4-5 to 10-10-0 zone; porch left and right exposed; 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.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=225, 4=225.
 - 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.



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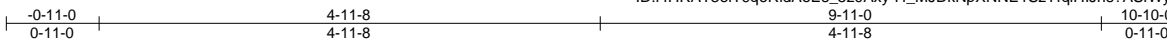
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001314 |
| J0921-5286 | G1GE | GABLE | 1 | 1 | Job Reference (optional) | |

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Scale = 1:21.5

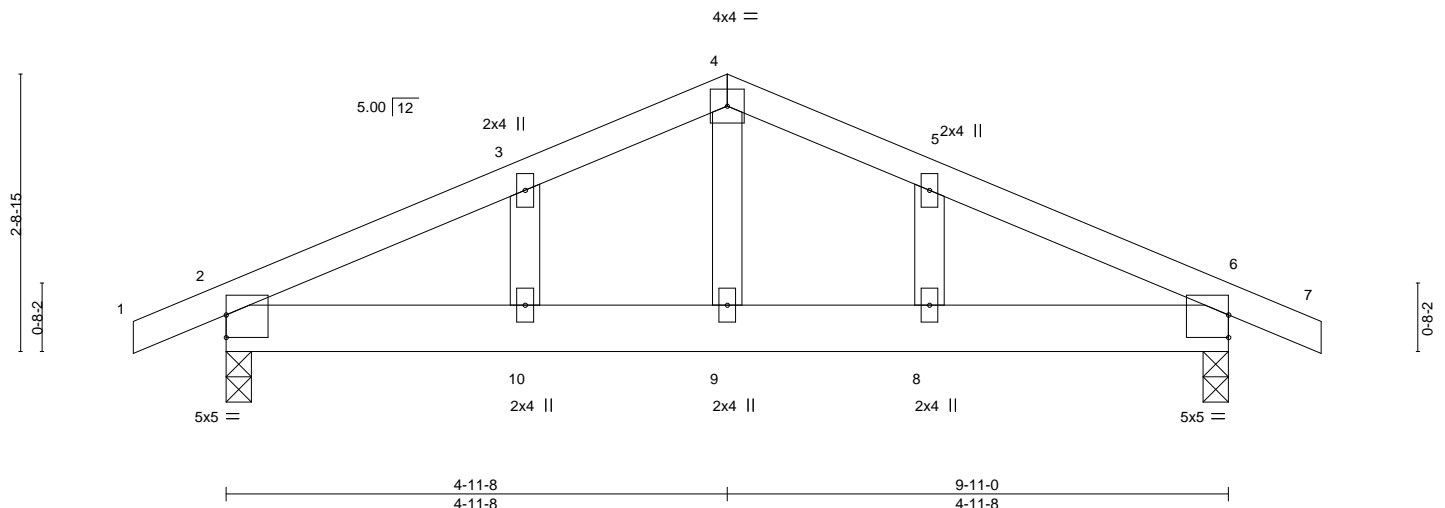


Plate Offsets (X,Y)-- [2:0-0-0,0-2-11], [6:Edge,0-2-11]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------|----------|--------|------|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.23 | Vert(LL) | -0.01 | 8 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.42 | Vert(CT) | -0.02 | 8 | >999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Horz(CT) | -0.01 | 6 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Wind(LL) | 0.02 | 8 | >999 | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 49 lb | FT = 20% |

| LUMBER- | BRACING- |
|-----------------------|---|
| TOP CHORD 2x4 SP No.1 | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. |
| BOT CHORD 2x6 SP No.1 | BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing. |
| WEBS 2x4 SP No.2 | |
| OTHERS 2x4 SP No.2 | |

REACTIONS. (size) 2=0-3-0, 6=0-3-0
 Max Horz 2=66(LC 13)
 Max Uplift 2=297(LC 8), 6=297(LC 9)
 Max Grav 2=449(LC 1), 6=449(LC 1)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-541/873, 3-4=-494/920, 4-5=-494/920, 5-6=-541/873
 BOT CHORD 2-10=-688/437, 9-10=-688/437, 8-9=-688/437, 6-8=-688/437
 WEBS 4-9=-534/232

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss 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.
 - Gable studs spaced at 2-0-0 oc.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=297, 6=297.
 - 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.



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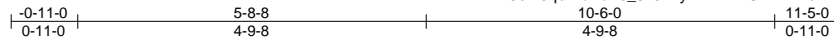


818 Soundside Road
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| | | | | | | |
|-------------------|---------------|------------------------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss H1GE | Truss Type COMMON SUPPORTED GAB | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001315 |
|-------------------|---------------|------------------------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:39 2021 Page 1
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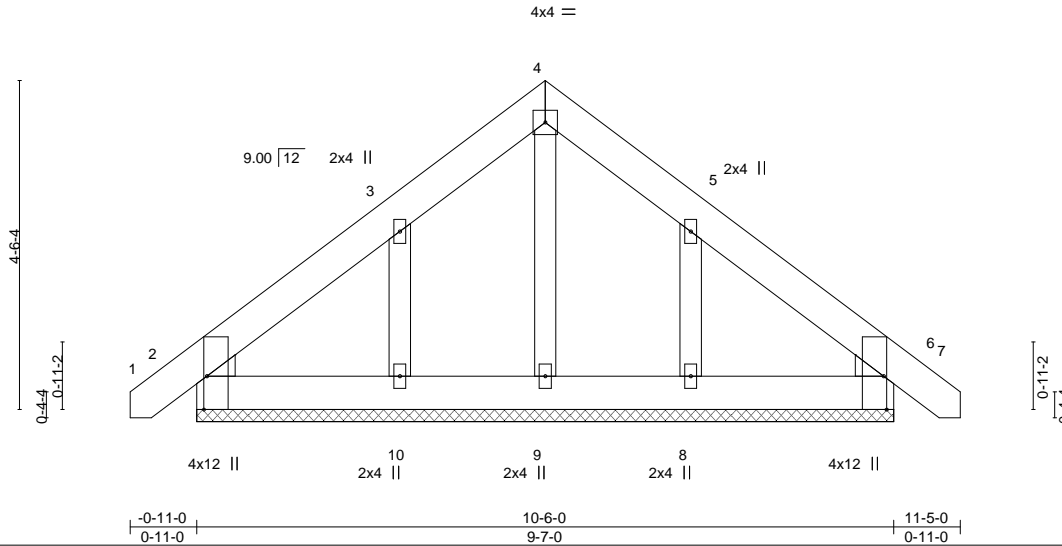


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [6:0-5-8,Edge]

| | | | | | | | | |
|----------------------|----------------------|-------------|---------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.04 | Vert(LL) 0.00 | 6 | n/r | 120 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.03 | Vert(CT) 0.00 | 6 | n/r | 120 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.04 | Horz(CT) 0.00 | 6 | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 69 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2 , Right: 2x4 SP No.2

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

REACTIONS. All bearings 9-7-0.
(lb) - Max Horz 2=166(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=229(LC 12), 8=223(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9 except 10=283(LC 19), 8=277(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=279/241, 5-8=280/237

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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
 - Truss designed for wind loads in the plane of the truss 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.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=229, 8=223.
 - 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.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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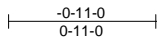


818 Soundside Road
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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001316 |
| J0921-5286 | J1 | MONOPITCH | 6 | 1 | Job Reference (optional) | |

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:40 2021 Page 1
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 6-0-0
 6-0-0



Scale = 1:13.5

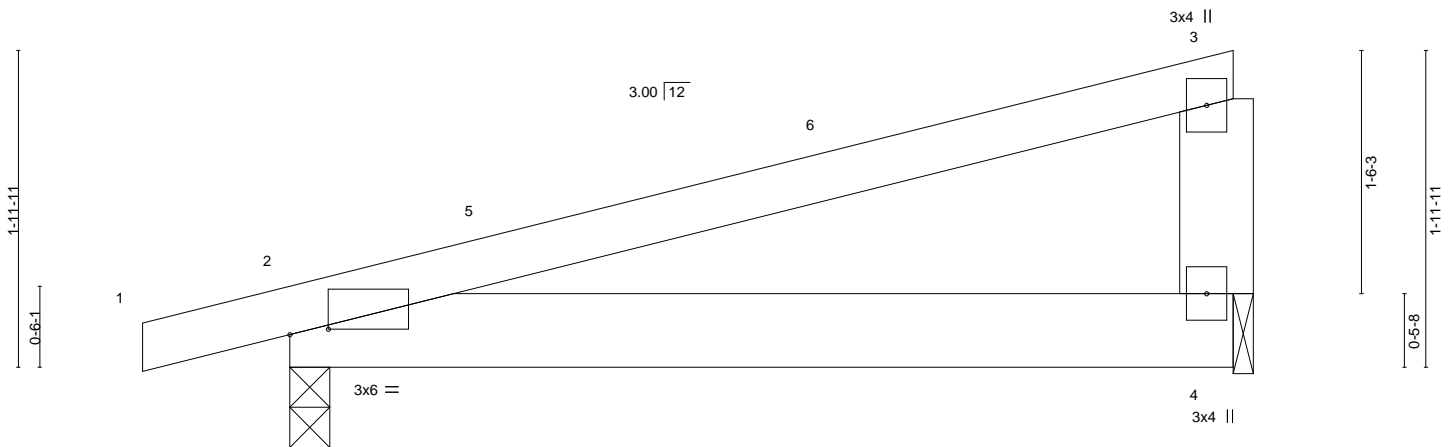


Plate Offsets (X,Y)-- [2:0-2-14,0-0-6]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | I/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|----------|
| TCLL 20.0 | 2-0-0 | TC 0.45 | Vert(LL) 0.04 | 2-4 | >999 | 240 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.18 | Vert(CT) -0.03 | 2-4 | >999 | 240 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Horz(CT) 0.00 | n/a | n/a | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | | | | | | |
| | Code IRC2015/TPI2014 | | | | | | Weight: 27 lb | FT = 20% |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8
 Max Horz 2=75(LC 8)
 Max Uplift 2=188(LC 8), 4=143(LC 8)
 Max Grav 2=294(LC 1), 4=220(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-9-4 zone; porch left exposed; 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=188, 4=143.
- 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.



August 3, 2021

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001317 |
| J0921-5286 | J1GE | GABLE | 1 | 1 | Job Reference (optional) | |

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Scale = 1:13.5

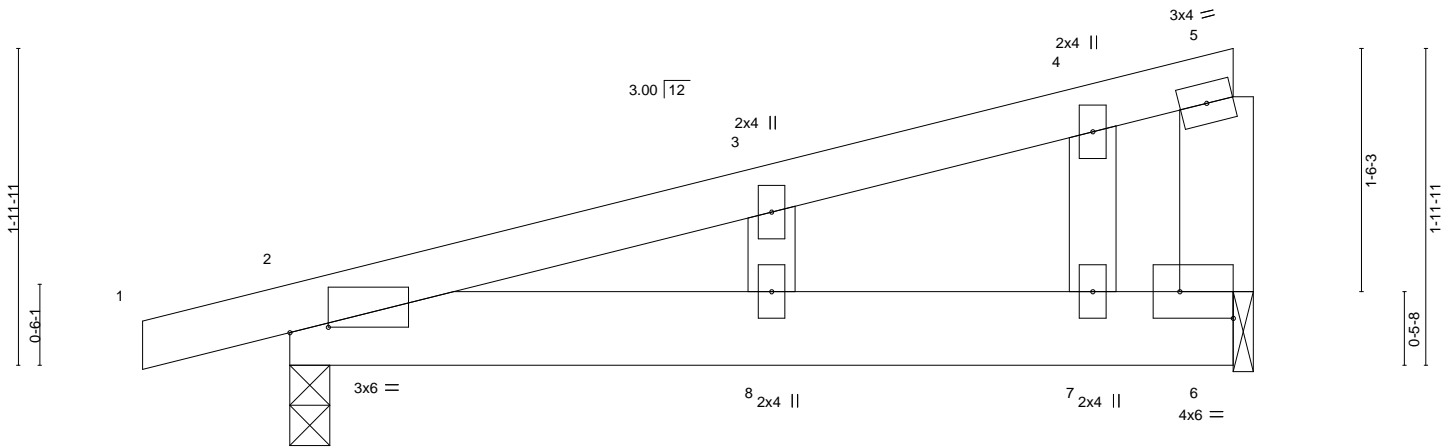


Plate Offsets (X,Y)-- [2:0-2-14,0-0-6], [6:Edge,0-2-0]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|----------|--------|------|---------------|-------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL | 1.15 | TC 0.19 | Vert(LL) | 0.04 | 8 | >999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.15 | BC 0.18 | Vert(CT) | -0.02 | 8 | >999 | | |
| BCLL 0.0 * | Rep Stress Incr | YES | WB 0.02 | Horz(CT) | -0.00 | 6 | n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 29 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-0, 6=0-1-8
Max Horz 2=106(LC 8)
Max Uplift 2=259(LC 8), 6=199(LC 8)
Max Grav 2=294(LC 1), 6=220(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 2-8=-275/133, 7-8=-275/133, 6-7=-275/133

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss 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.
- 3) Gable studs spaced at 2-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=259, 6=199.
- 9) 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.



August 3, 2021

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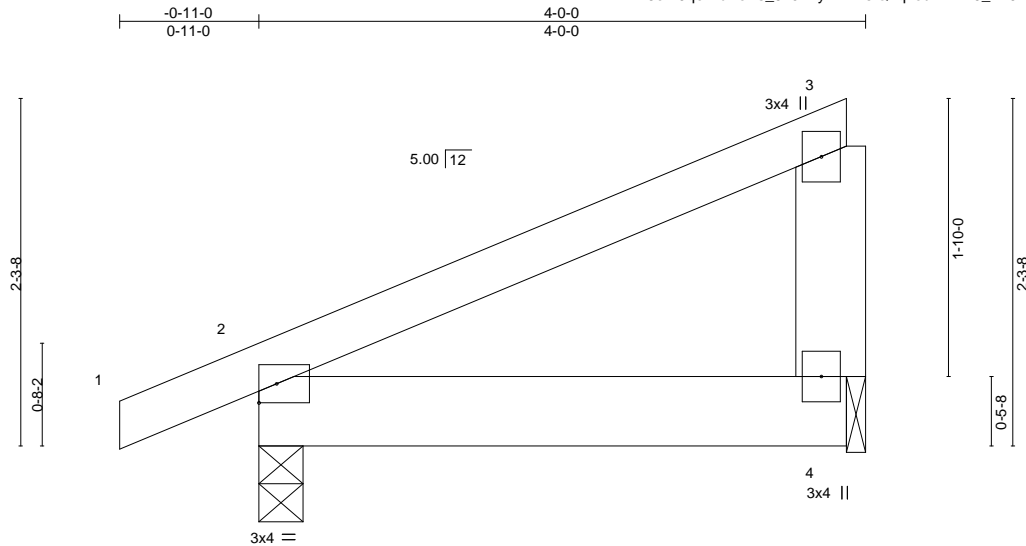


818 Soundside Road
Edenton, NC 27932

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|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001318 |
| J0921-5286 | M1 | MONOPITCH | 6 | 1 | Job Reference (optional) | |

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| | | | | | |
|----------------------|----------------------|-------------|-----------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.21 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.21 | Vert(LL) -0.00 2-4 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.00 | Vert(CT) -0.00 2-4 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 n/a n/a | Weight: 20 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.00 2 **** 240 | | |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-1-8
 Max Horz 2=84(LC 12)
 Max Uplift 2=-48(LC 8), 4=-52(LC 12)
 Max Grav 2=218(LC 1), 4=136(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.



August 3, 2021

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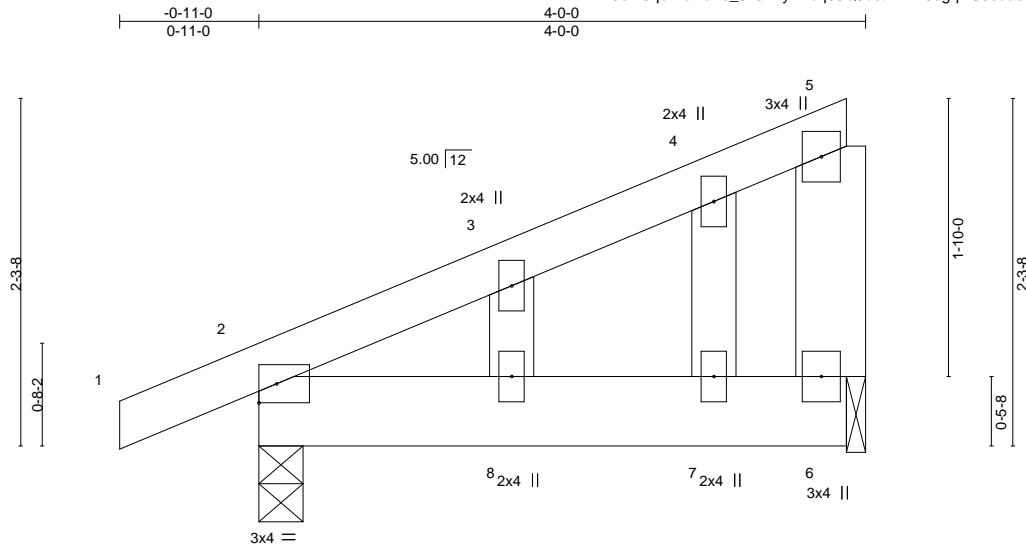
818 Soundside Road
 Edenton, NC 27932

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|-------------------|---------------|---------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss M1GE | Truss Type GABLE | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001319 |
|-------------------|---------------|---------------------|----------|----------|---|-----------|

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| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|---------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.06 | Vert(LL) 0.00 8 >999 240 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.10 | Vert(CT) -0.00 8 >999 240 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.02 | Horz(CT) -0.00 6 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 23 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1 *Except*
 3-8: 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-1-8
 Max Horz 2=121(LC 12)
 Max Uplift 2=90(LC 12), 6=93(LC 12)
 Max Grav 2=218(LC 1), 6=136(LC 1)

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

NOTES-

- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end 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
- Truss designed for wind loads in the plane of the truss 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.
- Gable studs spaced at 2-0-0 oc.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.



August 3, 2021

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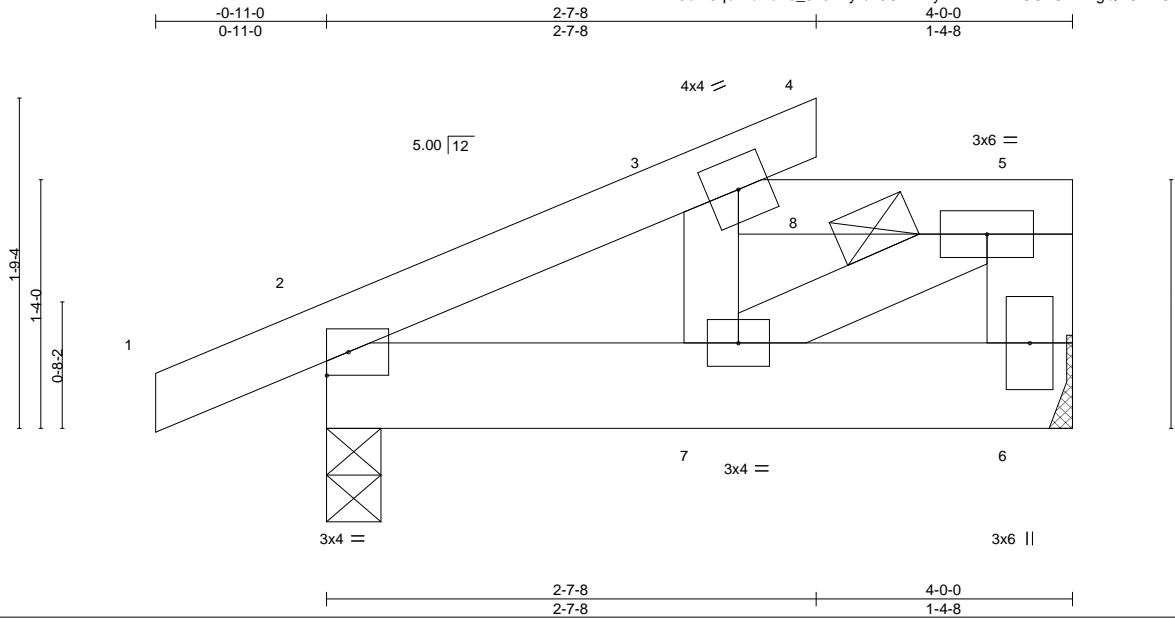
818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|-------------------|-------------|------------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss M2 | Truss Type HALF HIP | Qty 6 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001320 |
|-------------------|-------------|------------------------|----------|----------|---|-----------|

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Scale = 1:11.6

| | | | | | |
|----------------------|----------------------|-------------|---------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.44 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.21 | Vert(LL) -0.00 7 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.10 | Vert(CT) -0.00 7 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-P | Horz(CT) -0.00 6 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.01 7 >999 240 | Weight: 23 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-6: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-3-8
 Max Horz 2=59(LC 12)
 Max Uplift 6=112(LC 9), 2=93(LC 8)
 Max Grav 6=546(LC 22), 2=387(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-470/402, 3-5=-366/461, 5-6=-489/492
 BOT CHORD 2-7=-492/386
 WEBS 3-7=-245/382, 5-7=-528/420

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=112.
- 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) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-60, 3-8=-40, 5-8=-80, 2-6=-20
 Concentrated Loads (lb)
 Vert: 8=500



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Continued on page 2

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818 Soundside Road
 Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001320 |
| J0921-5286 | M2 | HALF HIP | 6 | 1 | Job Reference (optional) | |

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LOAD CASE(S) Standard

- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 3-8=-100, 5-8=-130, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-438
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 3-5=-40, 2-6=-40
Concentrated Loads (lb)
Vert: 8=-375
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=98, 2-3=82, 3-4=207, 3-5=67, 2-6=-12
Horz: 1-2=-110, 2-3=-94, 3-4=-219
Concentrated Loads (lb)
Vert: 8=467
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=73, 2-3=82, 3-4=73, 3-5=67, 2-6=-12
Horz: 1-2=-85, 2-3=-94, 3-4=-85
Concentrated Loads (lb)
Vert: 8=467
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=5, 2-3=-54, 3-4=30, 3-5=-64, 2-6=-20
Horz: 1-2=-25, 2-3=34, 3-4=-50
Concentrated Loads (lb)
Vert: 8=-462
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-45, 2-3=-54, 3-4=-45, 3-5=-64, 2-6=-20
Horz: 1-2=25, 2-3=34, 3-4=25
Concentrated Loads (lb)
Vert: 8=-462
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=40, 2-3=20, 3-4=11, 3-5=11, 2-6=-12
Horz: 1-2=-52, 2-3=-32, 3-4=-23
Concentrated Loads (lb)
Vert: 8=121
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=20, 3-4=41, 3-5=11, 2-6=-12
Horz: 1-2=-23, 2-3=-32, 3-4=-53
Concentrated Loads (lb)
Vert: 8=121
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-3=-6, 3-4=3, 3-5=-15, 2-6=-20
Horz: 1-2=-23, 2-3=-14, 3-4=-23
Concentrated Loads (lb)
Vert: 8=-306
- 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-3=-6, 3-4=3, 3-5=-15, 2-6=-20
Horz: 1-2=-23, 2-3=-14, 3-4=-23
Concentrated Loads (lb)
Vert: 8=-306
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=22, 2-3=31, 3-4=22, 3-5=-5, 2-6=-12
Horz: 1-2=-34, 2-3=-43, 3-4=-34
Concentrated Loads (lb)
Vert: 8=121
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=6, 3-5=-5, 2-6=-12
Horz: 1-2=-18, 2-3=-27, 3-4=-18
Concentrated Loads (lb)
Vert: 8=21
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=22, 2-3=31, 3-4=22, 3-5=-5, 2-6=-12
Horz: 1-2=-34, 2-3=-43, 3-4=-34
Concentrated Loads (lb)
Vert: 8=121

Continued on page 3

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818 Soundside Road
Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001320 |
| J0921-5286 | M2 | HALF HIP | 6 | 1 | Job Reference (optional) | |

Comtech, Inc., Fayetteville, NC - 28314,

8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:43 2021 Page 3
ID:14HRAT3eIT9qoRIdAoEs_5z0Axy-ex9CHRRyMv?W7DrVSOLS?MPgQBCBCCQTh30hf4yrd5g

LOAD CASE(S) Standard

- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=6, 3-5=5, 2-6=-12
Horz: 1-2=-18, 2-3=-27, 3-4=-18
Concentrated Loads (lb)
Vert: 8=21
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=5, 3-4=14, 3-5=-31, 2-6=-20
Horz: 1-2=-34, 2-3=-25, 3-4=-34
Concentrated Loads (lb)
Vert: 8=-306
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-11, 3-4=-2, 3-5=-31, 2-6=-20
Horz: 1-2=-18, 2-3=-9, 3-4=-18
Concentrated Loads (lb)
Vert: 8=-306
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 3-5=-120, 2-6=-20
Concentrated Loads (lb)
Vert: 8=250
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-40, 3-4=-33, 3-8=-81, 5-8=-111, 2-6=-20
Horz: 1-2=-17, 2-3=-10, 3-4=-17
Concentrated Loads (lb)
Vert: 8=-480
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-39, 3-4=-33, 3-8=-81, 5-8=-111, 2-6=-20
Horz: 1-2=-17, 2-3=-11, 3-4=-17
Concentrated Loads (lb)
Vert: 8=-480
- 21) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-31, 3-4=-24, 3-8=-93, 5-8=-123, 2-6=-20
Horz: 1-2=-26, 2-3=-19, 3-4=-26
Concentrated Loads (lb)
Vert: 8=-480
- 22) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-43, 3-4=-36, 3-8=-93, 5-8=-123, 2-6=-20
Horz: 1-2=-14, 2-3=-7, 3-4=-14
Concentrated Loads (lb)
Vert: 8=-480
- 23) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 3-8=-40, 5-8=-80, 2-6=-20
Concentrated Loads (lb)
Vert: 8=500
- 24) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 3-8=-40, 5-8=-80, 2-6=-20
Concentrated Loads (lb)
Vert: 8=500
- 25) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 3-8=-100, 5-8=-130, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-438
- 26) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 3-8=-100, 5-8=-130, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-438

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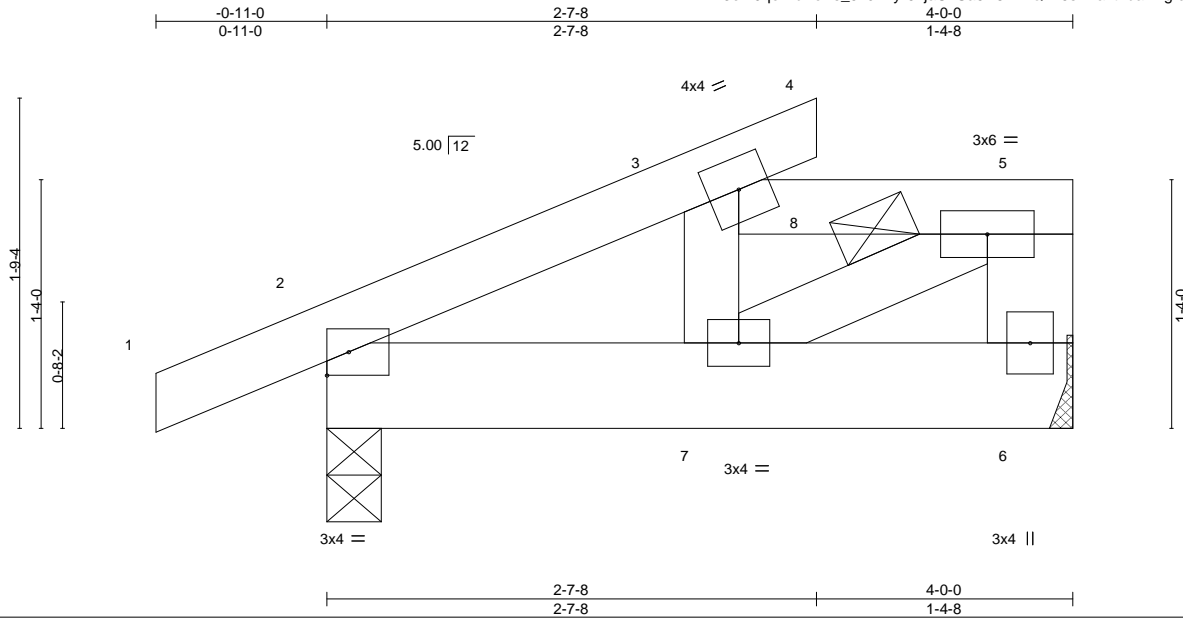


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| | | | | | | |
|-------------------|--------------|------------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss M2A | Truss Type HALF HIP | Qty 1 | Ply 2 | Lot 5 Williams Farm Job Reference (optional) | E16001321 |
|-------------------|--------------|------------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:44 2021 Page 1
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Scale = 1:11.6

| | | | | | |
|----------------------|----------------------|-------------|---------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.26 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.09 | Vert(LL) -0.00 2 >999 360 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Vert(CT) -0.00 7 >999 240 | | |
| BCDL 10.0 | Rep Stress Incr NO | Matrix-P | Horz(CT) 0.00 6 n/a n/a | | |
| | Code IRC2015/TPI2014 | | Wind(LL) 0.00 7 >999 240 | Weight: 45 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 5-6: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-5.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=Mechanical, 2=0-3-8
 Max Horz 2=59(LC 8)
 Max Uplift 2=40(LC 4)
 Max Grav 6=708(LC 18), 2=439(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-565/0, 3-5=-445/17, 5-6=-641/0
 BOT CHORD 2-7=-20/471
 WEBS 3-7=-308/37, 5-7=-19/511

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 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) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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Continued on page 2

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| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001321 |
| J0921-5286 | M2A | HALF HIP | 1 | 2 | Job Reference (optional) | |

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LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 3-8=-160, 5-8=-200, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-500
- 2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 3-8=-220, 5-8=-250, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-438
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 3-5=-160, 2-6=-40
Concentrated Loads (lb)
Vert: 8=-375
- 4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=40, 2-3=20, 3-4=11, 3-5=-109, 2-6=-12
Horz: 1-2=-52, 2-3=-32, 3-4=-23
Concentrated Loads (lb)
Vert: 8=121
- 5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=11, 2-3=20, 3-4=41, 3-5=-109, 2-6=-12
Horz: 1-2=-23, 2-3=-32, 3-4=-53
Concentrated Loads (lb)
Vert: 8=121
- 6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-3=-6, 3-4=3, 3-5=-135, 2-6=-20
Horz: 1-2=-23, 2-3=-14, 3-4=-23
Concentrated Loads (lb)
Vert: 8=-306
- 7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=3, 2-3=-6, 3-4=3, 3-5=-135, 2-6=-20
Horz: 1-2=-23, 2-3=-14, 3-4=-23
Concentrated Loads (lb)
Vert: 8=-306
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=22, 2-3=31, 3-4=22, 3-5=-125, 2-6=-12
Horz: 1-2=-34, 2-3=-43, 3-4=-34
Concentrated Loads (lb)
Vert: 8=121
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=6, 3-5=-125, 2-6=-12
Horz: 1-2=-18, 2-3=-27, 3-4=-18
Concentrated Loads (lb)
Vert: 8=21
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=22, 2-3=31, 3-4=22, 3-5=-125, 2-6=-12
Horz: 1-2=-34, 2-3=-43, 3-4=-34
Concentrated Loads (lb)
Vert: 8=121
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=6, 2-3=15, 3-4=6, 3-5=-125, 2-6=-12
Horz: 1-2=-18, 2-3=-27, 3-4=-18
Concentrated Loads (lb)
Vert: 8=21
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=14, 2-3=5, 3-4=14, 3-5=-151, 2-6=-20
Horz: 1-2=-34, 2-3=-25, 3-4=-34
Concentrated Loads (lb)
Vert: 8=-306
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-2, 2-3=-11, 3-4=-2, 3-5=-151, 2-6=-20
Horz: 1-2=-18, 2-3=-9, 3-4=-18
Concentrated Loads (lb)
Vert: 8=-306

Continued on page 3

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Edenton, NC 27932

| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001321 |
| J0921-5286 | M2A | HALF HIP | 1 | 2 | Job Reference (optional) | |

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LOAD CASE(S) Standard

- 14) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 3-5=-240, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-250
- 15) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-40, 3-4=-33, 3-8=-201, 5-8=-231, 2-6=-20
Horz: 1-2=-17, 2-3=-10, 3-4=-17
Concentrated Loads (lb)
Vert: 8=-480
- 16) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-33, 2-3=-39, 3-4=-33, 3-8=-201, 5-8=-231, 2-6=-20
Horz: 1-2=-17, 2-3=-11, 3-4=-17
Concentrated Loads (lb)
Vert: 8=-480
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-24, 2-3=-31, 3-4=-24, 3-8=-213, 5-8=-243, 2-6=-20
Horz: 1-2=-26, 2-3=-19, 3-4=-26
Concentrated Loads (lb)
Vert: 8=-480
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-2=-36, 2-3=-43, 3-4=-36, 3-8=-213, 5-8=-243, 2-6=-20
Horz: 1-2=-14, 2-3=-7, 3-4=-14
Concentrated Loads (lb)
Vert: 8=-480
- 19) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 3-8=-160, 5-8=-200, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-500
- 20) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 3-8=-160, 5-8=-200, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-500
- 21) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-50, 3-8=-220, 5-8=-250, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-438
- 22) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 3-8=-220, 5-8=-250, 2-6=-20
Concentrated Loads (lb)
Vert: 8=-438

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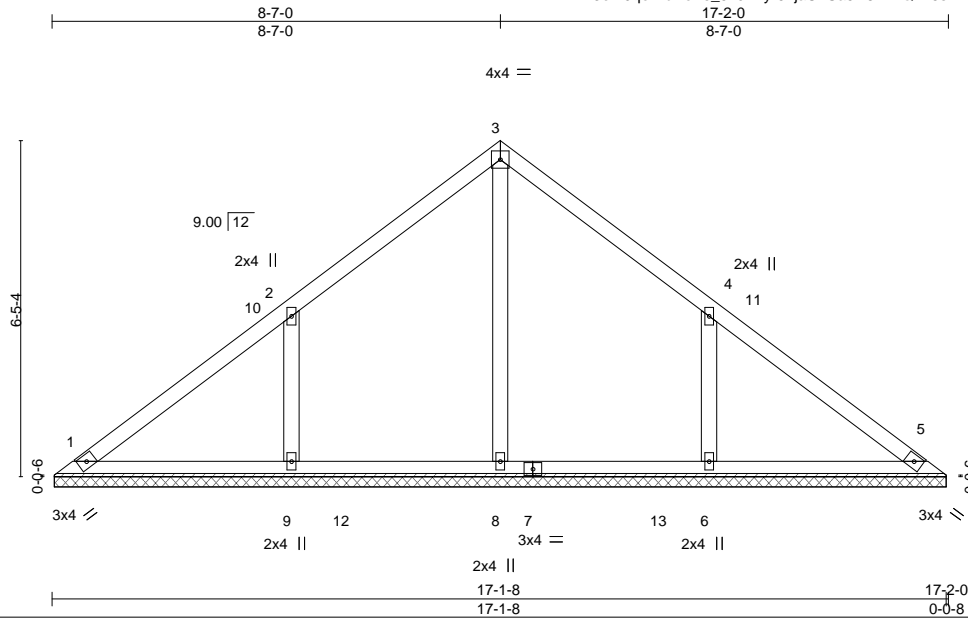


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| | | | | | | |
|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss V1 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001322 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

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Scale = 1:41.5

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

| | | | | | | | | |
|----------------------|----------------------|-------------|--------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.20 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.17 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.10 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 73 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 17-1-0.
(lb) - Max Horz 1=195(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-218(LC 12), 6=-218(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=418(LC 19), 9=496(LC 19), 6=496(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-455/344, 4-6=-455/345

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-7-0, Interior(1) 4-7-0 to 8-7-0, Exterior(2) 8-7-0 to 12-11-13, Interior(1) 12-11-13 to 16-8-11 zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1 except (jt=lb) 9=218, 6=218.
- 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.



August 3, 2021

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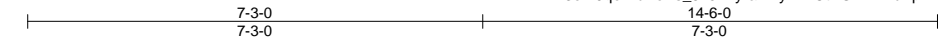


818 Soundside Road
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|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss V2 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001323 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:45 2021 Page 1
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4x4 =

Scale = 1:34.6

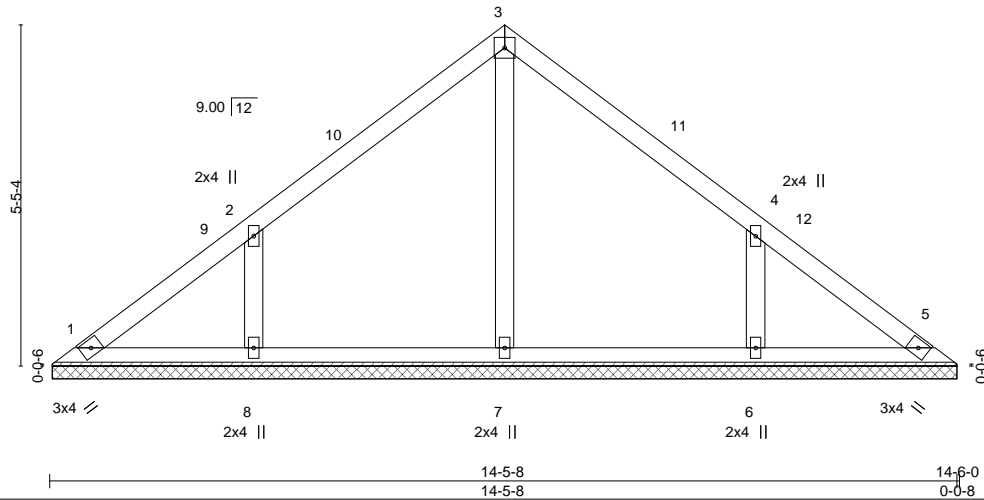


Plate Offsets (X,Y)-- [4:0-0-0,0-0-0]

| | | | | | |
|----------------------|-----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) | PLATES | GRIP |
| TCLL 20.0 | Plate Grip DOL 1.15 | TC 0.15 | Vert(LL) n/a - n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.15 | BC 0.08 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 * | Rep Stress Incr YES | WB 0.08 | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 10.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 60 lb | FT = 20% |

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 14-5-0.
(lb) - Max Horz 1=163(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-184(LC 12), 6=-184(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=375(LC 19), 6=375(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-388/310, 4-6=-388/310

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 7-3-0, Exterior(2) 7-3-0 to 11-7-13, Interior(1) 11-7-13 to 14-0-11 zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=184, 6=184.
 - 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.



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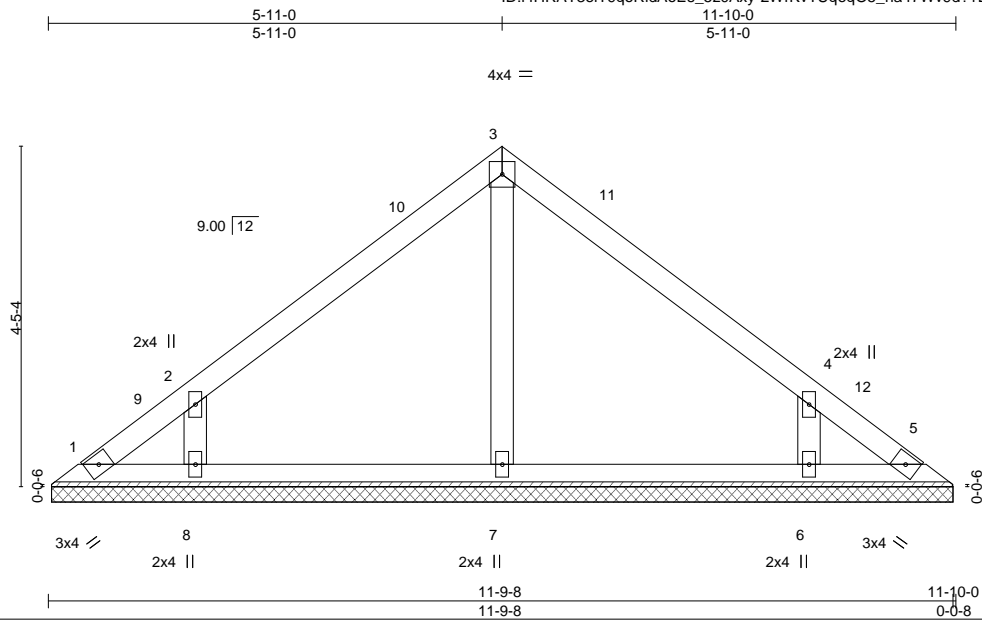


818 Soundside Road
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|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss V3 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001324 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:46 2021 Page 1
 ID:I4HRAT3eIT9qoRIdAoEs_5z0Axy-2WrKvTUqeqO5_ha47Wv9d?1EIPGIOavn0FLGPYrd5d



Scale = 1:28.3

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

| | | | | | | | | |
|----------------------|----------------------|-------------|--------------|----------|--------|-----|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.14 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.09 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.06 | Horz(CT) | 0.00 | 5 | n/a | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | | | | | Weight: 46 lb | FT = 20% |
| | Code IRC2015/TPI2014 | | | | | | | |

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 11-9-0.
 (lb) - Max Horz 1=131(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=172(LC 12), 6=171(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=253(LC 1), 8=343(LC 19), 6=342(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-372/316, 4-6=-372/316

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-5 to 4-10-1, Interior(1) 4-10-1 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-4-11 zone; 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=172, 6=171.
 - 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.



August 3, 2021

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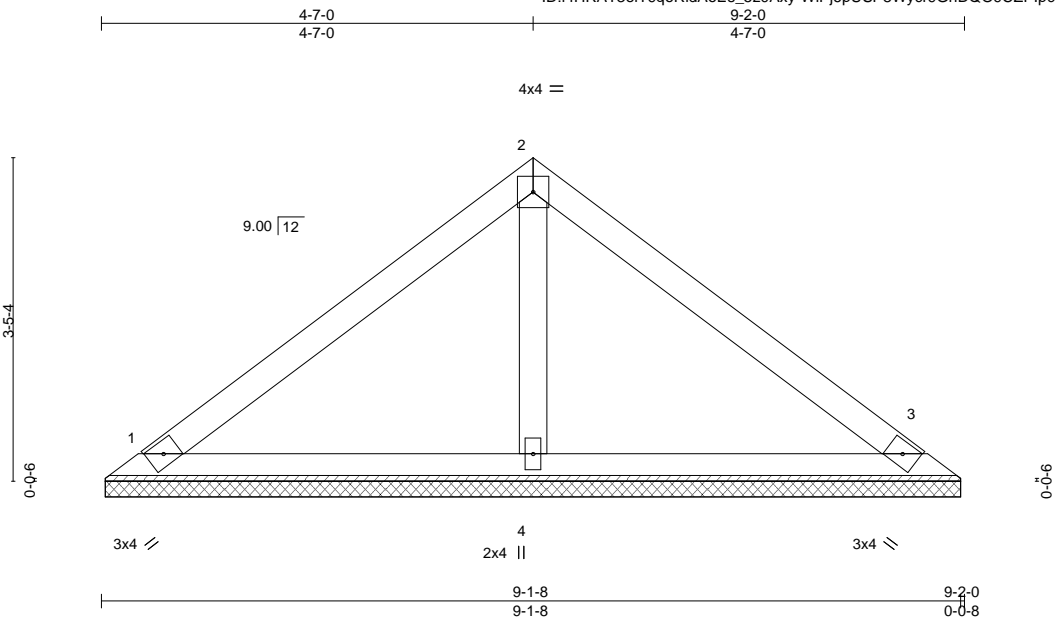


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|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss V4 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001325 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:47 2021 Page 1
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Scale = 1:23.0

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|----------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.19 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.13 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.04 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 33 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=9-1-0, 3=9-1-0, 4=9-1-0
Max Horz 1=99(LC 11)
Max Uplift 1=42(LC 12), 3=52(LC 13), 4=-24(LC 12)
Max Grav 1=171(LC 1), 3=172(LC 20), 4=321(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 3) Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 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 100 lb uplift at joint(s) 1, 3, 4.
- 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.



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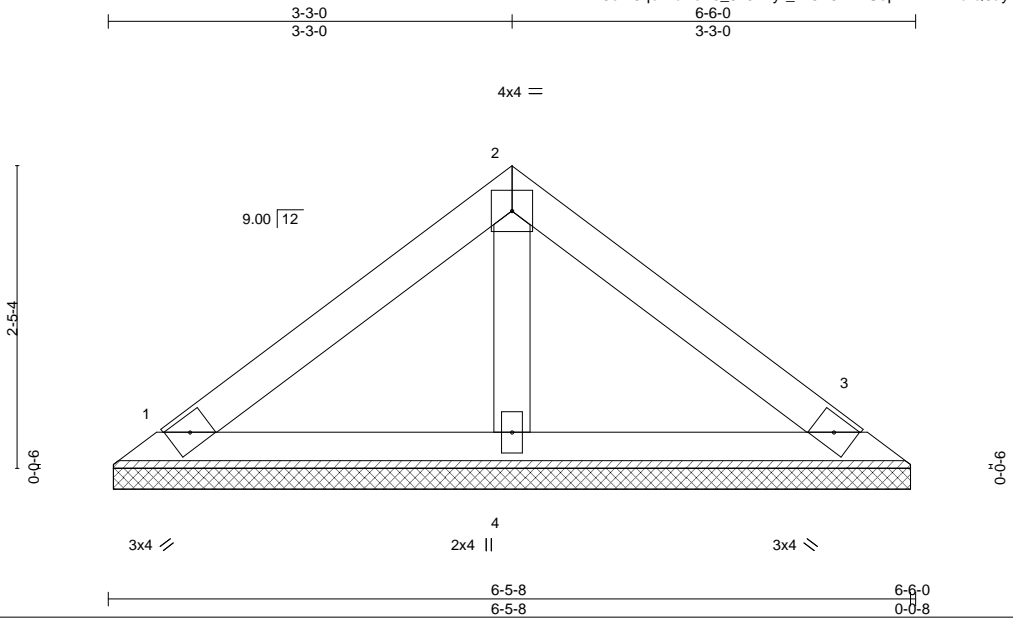


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|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss V5 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001326 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

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8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:48 2021 Page 1
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Scale = 1:17.5

| | | | | | |
|----------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.13 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.06 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.02 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 23 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=6-5-0, 3=6-5-0, 4=6-5-0
Max Horz 1=67(LC 8)
Max Uplift 1=37(LC 12), 3=44(LC 13)
Max Grav 1=126(LC 1), 3=126(LC 1), 4=197(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



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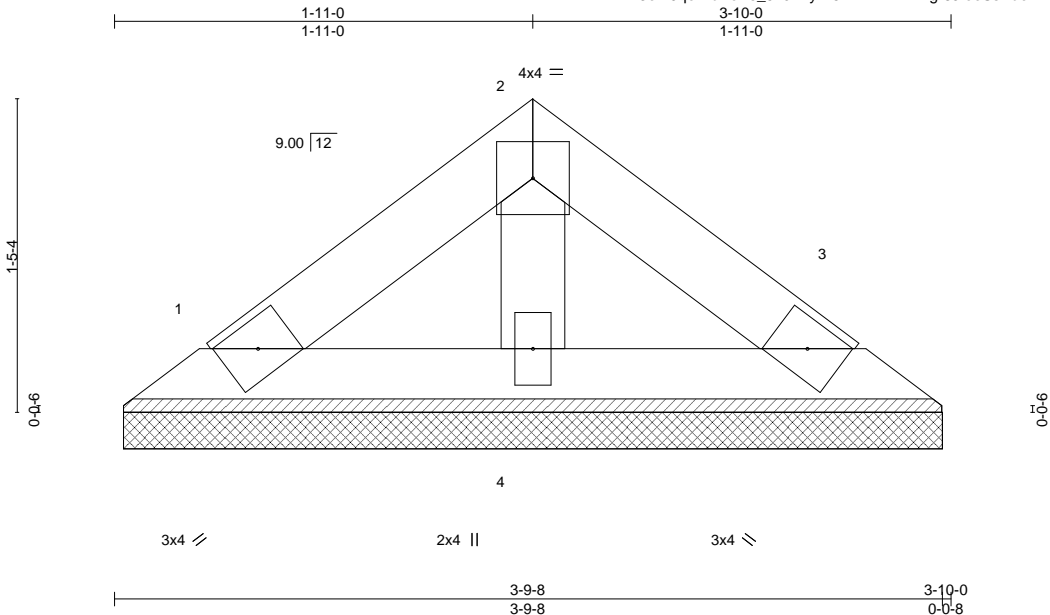


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|-------------------|-------------|----------------------|----------|----------|---|-----------|
| Job J0921-5286 | Truss V6 | Truss Type VALLEY | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001327 |
|-------------------|-------------|----------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:49 2021 Page 1
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Scale = 1:9.9

| | | | | | |
|----------------------|----------------------|-------------|-------------------------|---------------|-------------|
| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
| TCLL 20.0 | 2-0-0 | TC 0.03 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.15 | BC 0.02 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 * | Lumber DOL 1.15 | WB 0.01 | Vert(CT) n/a - n/a 999 | | |
| BCDL 10.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 3 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 12 lb | FT = 20% |

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 1=3-9-0, 3=3-9-0, 4=3-9-0
Max Horz 1=35(LC 8)
Max Uplift 1=20(LC 12), 3=23(LC 13)
Max Grav 1=66(LC 1), 3=66(LC 1), 4=104(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=150mph Vasd=119mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- Gable requires continuous bottom chord bearing.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



August 3, 2021

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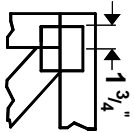
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



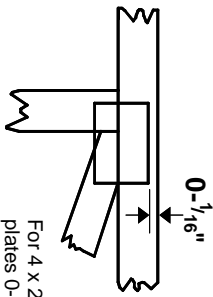
818 Soundside Road
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Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

— This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 20/20** software or upon request.

PLATE SIZE

4 X 4

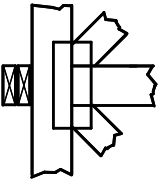
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



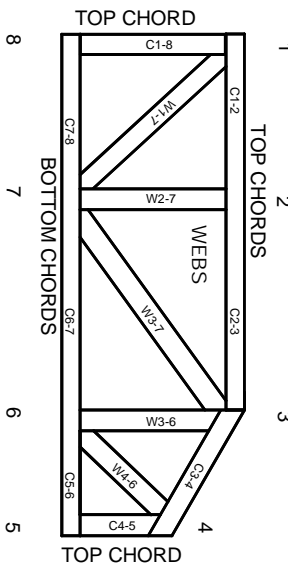
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

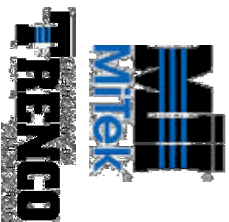
ICC-ES Reports:

ESR-1311, ESR-1352, ESR 1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



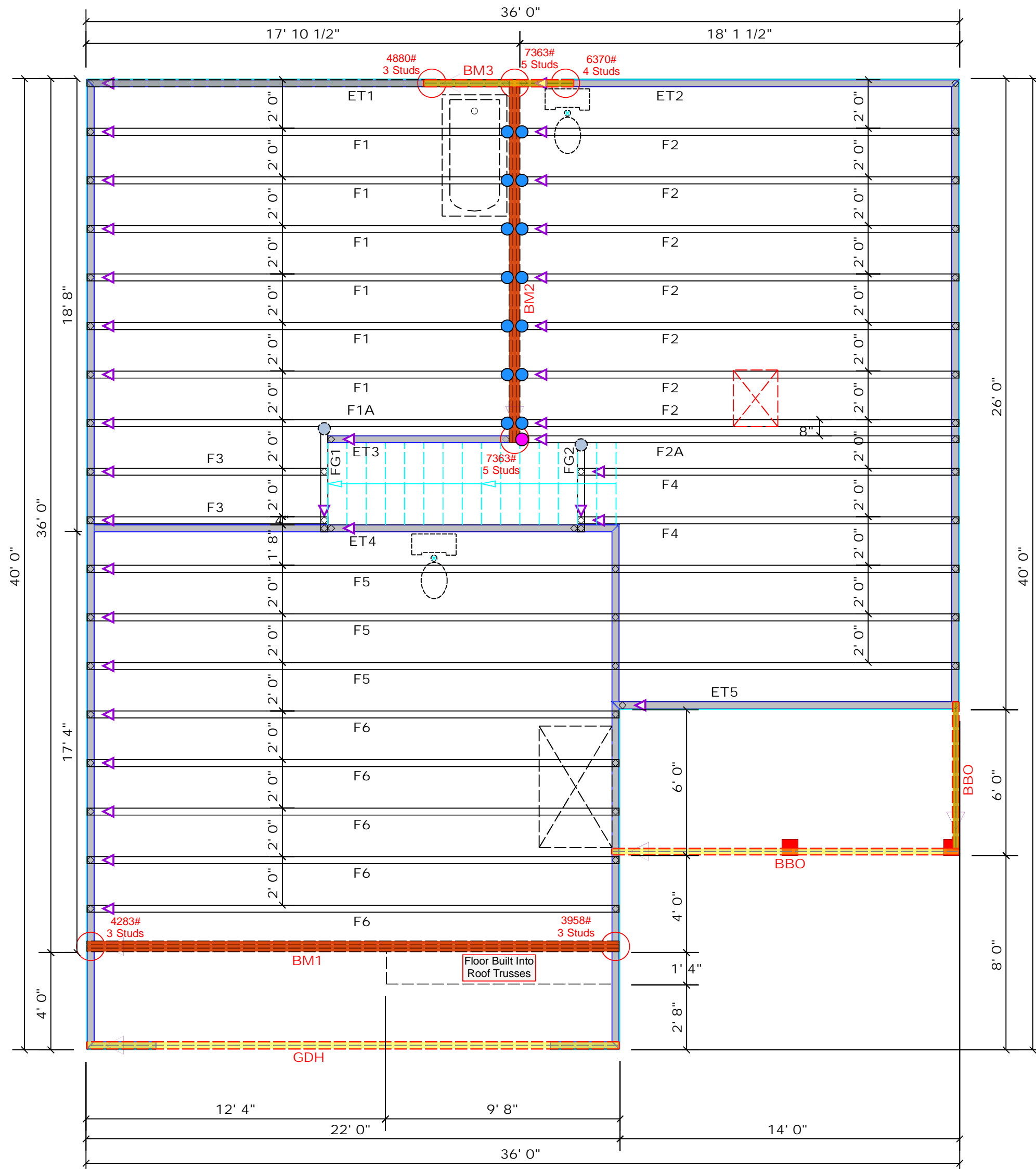
ROOF & FLOOR TRUSSES & BEAMS

Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

Bearing reactions less than or equal to 3000# are deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

Signature David Landry
David Landry

| LOAD CHART FOR JACK STUDS | | | | | |
|---|---------------------------|--------------------------|----------------|---------------------------|--------------------------|
| (BASED ON TABLES MODEL: S 03) | | | | | |
| NUMBER OF JACK STUDS REQUIRED BY EACH OF HEADS/ENDS | | | | | |
| REACTION (LBS) | REQ'D STUDS FOR EACH HEAD | REQ'D STUDS FOR EACH END | REACTION (LBS) | REQ'D STUDS FOR EACH HEAD | REQ'D STUDS FOR EACH END |
| 1700 | 1 | 1 | 2550 | 1 | 3400 |
| 3400 | 2 | 2 | 5100 | 2 | 6800 |
| 5100 | 3 | 3 | 7650 | 3 | 10200 |
| 6800 | 4 | 4 | 10200 | 4 | 13600 |
| 8500 | 5 | 5 | 12750 | 5 | 17000 |
| 10200 | 6 | 6 | 15300 | 6 | |
| 11900 | 7 | | | | |
| 13600 | 8 | | | | |
| 15300 | 9 | | | | |



Dimension Notes

- All exterior wall to wall dimensions are to face of sheathing unless noted otherwise.
- All interior wall dimensions are to face of frame wall unless noted otherwise.
- All exterior wall to truss dimensions are to face of frame wall unless noted otherwise.

All Walls Shown Are Considered Load Bearing

Plumbing Drop Notes

- Plumbing drop locations shown are NOT exact.
- Contractor to verify ALL plumbing drop locations prior to setting Floor Trusses.
- Adjust spacing as needed not to exceed 24"oc.

| Connector Information | | | | | Nail Information | |
|-----------------------|---------|-------|-----|------------------|------------------|------------|
| Sym | Product | Manuf | Qty | Supported Member | Header | Truss |
| ● | HUS410 | USP | 14 | NA | 16d/3-1/2" | 16d/3-1/2" |
| ● | MSH422 | USP | 2 | Varies | 10d/3" | 10d/3" |
| ● | HD410F | USP | 1 | NA | 16d/3-1/2" | 10d/3" |

| Products | | | | | |
|----------|--------|-----------------------------|-------|---------|--|
| PlotID | Length | Product | Plies | Net Qty | |
| BM1 | 22' 0" | 1-3/4"x 16" LVL Kerto-S | 3 | 3 | |
| BM2 | 15' 0" | 1-3/4"x 16" LVL Kerto-S | 3 | 3 | |
| BM3 | 7' 0" | 1-3/4"x 9-1/4" LVL Kerto-S | 2 | 2 | |
| GDH | 22' 0" | 1-3/4"x 11-7/8" LVL Kerto-S | 2 | 2 | |

1 Truss Placement Plan
Scale: 1/4"=1'

| | | | | | | | | | | | |
|------------|---------------|----------|---------------------|-------|-------------------|-----------|---------|----------|--------------|------------|------------|
| CITY / CO. | Harnett | ADDRESS | Josey Williams Rd. | MODEL | Floor | DATE REV. | 09/2/21 | DRAWN BY | David Landry | SALES REP. | Bob Lewis |
| BUILDER | Regency Homes | JOB NAME | Lot 5 Williams Farm | PLAN | Brinkley "B" / GL | SEAL DATE | | QUOTE # | | JOB # | J0921-5287 |

△ = Indicates Left End of Truss
(Reference Engineered Truss Drawing)
Do NOT Erect Truss Backwards

THIS IS A TRUSS PLACEMENT DIAGRAM ONLY. These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com

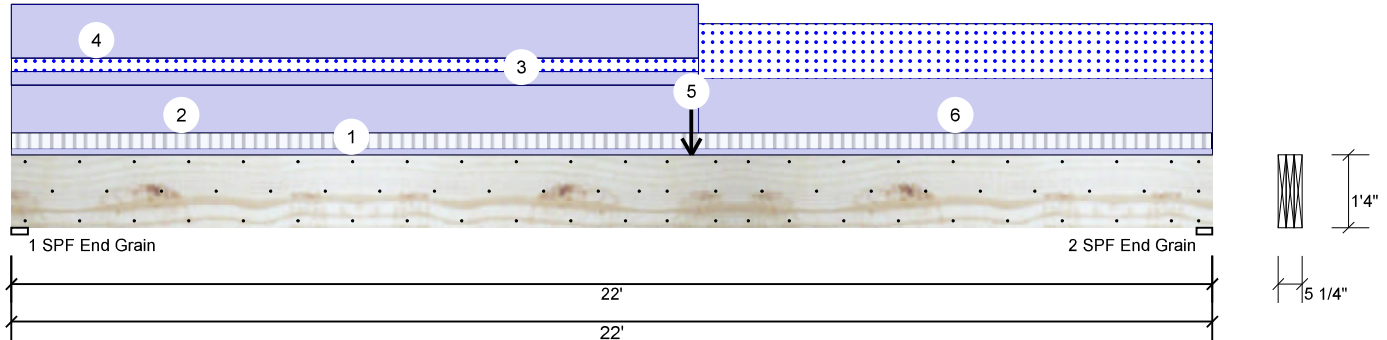


Client: Regency Homes
 Project:
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

BM1 Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 3 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 360 |
| Importance: | Normal |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | Yes |
| Deck: | Not Checked |
| Ceiling: | Gypsum 1/2" |

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 440 | 3406 | 729 | 0 | 0 |
| 2 | 440 | 2616 | 1342 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total Ld. | Case | Ld. Comb. |
|-------------------|--------|------------|-------------|-----------|------|-------------|
| 1 - SPF End Grain | 3.625" | 26% | 3406 / 877 | 4283 | L | D+0.75(L+S) |
| 2 - SPF End Grain | 3.500" | 25% | 2616 / 1342 | 3958 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|------------|---------------|--------------|-------------|------|
| Moment | 23283 ft-lb | 11'3 7/8" | 62010 ft-lb | 0.375 (38%) | D+0.75(L+S) | L |
| Unbraced | 23283 ft-lb | 11'3 7/8" | 23318 ft-lb | 0.999 (100%) | D+0.75(L+S) | L |
| Shear | 4012 lb | 1'6 3/4" | 20608 lb | 0.195 (19%) | D+0.75(L+S) | L |
| LL Defl inch | 0.150 (L/1723) | 11'6 1/16" | 0.539 (L/480) | 0.280 (28%) | 0.75(L+S) | L |
| TL Defl inch | 0.566 (L/457) | 11' | 0.718 (L/360) | 0.790 (79%) | D+0.75(L+S) | L |

Design Notes

- 1 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Concentrated load fastener specification is in addition to hanger fasteners if a hanger is present.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 7'7 1/2" o.c.
- 7 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|---------------|-----------------|------------|-----------|----------|--------|-----------|----------|-------------|----------|
| 1 | Tie-In | 0-0-0 to 22-0-0 | 1-0-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | 0 PSF | Floor |
| 2 | Part. Uniform | 0-0-0 to 12-7-0 | | Top | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| 3 | Part. Uniform | 0-0-0 to 12-7-0 | | Near Face | 34 PLF | 0 PLF | 34 PLF | 0 PLF | 0 PLF | M1 |
| 4 | Part. Uniform | 0-0-0 to 12-7-0 | | Top | 135 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | C1GE |
| 5 | Point | 12-5-8 | | Near Face | 354 lb | 0 lb | 354 lb | 0 lb | 0 lb | M2A |

Continued on page 2...

| | | | |
|---|---|---|---|
| <p>Notes</p> <p>Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.</p> <p>Lumber</p> <p>1. Dry service conditions, unless noted otherwise 2. LVL not to be treated with fire retardant or corrosive chemicals</p> <p>Handling & Installation</p> <p>1. LVL beams must not be cut or drilled 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals 3. Damaged Beams must not be used 4. Design assumes top edge is laterally restrained 5. Provide lateral support at bearing points to avoid lateral displacement and rotation</p> | <p>6. For flat roofs provide proper drainage to prevent ponding</p> | <p>Manufacturer Info</p> <p>Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us ICC-ES: ESR-3633</p> | <p>Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS</p> |
| | | <p>This design is valid until 4/24/2023</p> | |

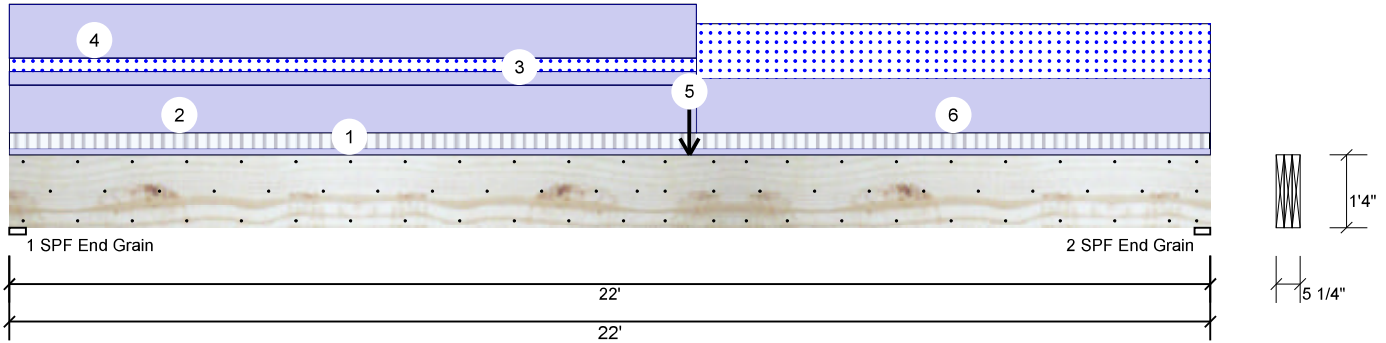


Client: Regency Homes
 Project: Josey Williams Rd.
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

BM1 Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED

Level: Level



...Continued from page 1

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|---------------|------------------|------------|-----------|----------|--------|-----------|----------|-------------|----------|
| 6 | Part. Uniform | 12-7-0 to 22-0-0 | | Near Face | 137 PLF | 0 PLF | 137 PLF | 0 PLF | 0 PLF | M2 |
| | Self Weight | | | | 19 PLF | | | | | |

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

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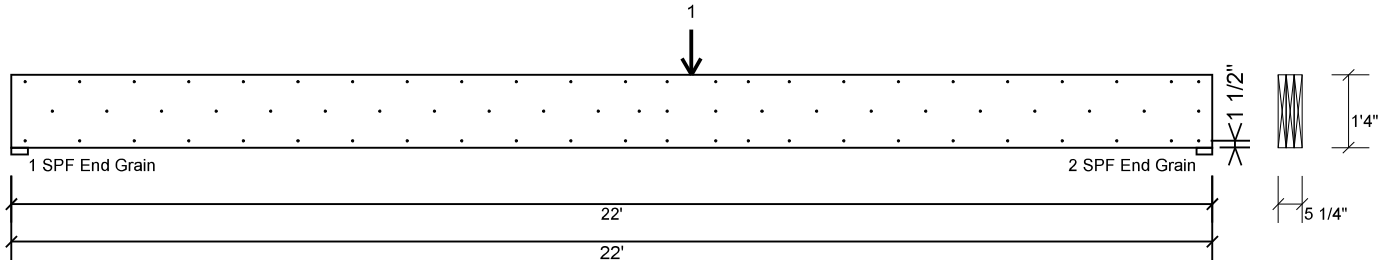


Client: Regency Homes
 Project:
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

BM1 Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. except for regions covered by concentrated load fastening. Nail from both sides. Maximum end distance not to exceed 6"

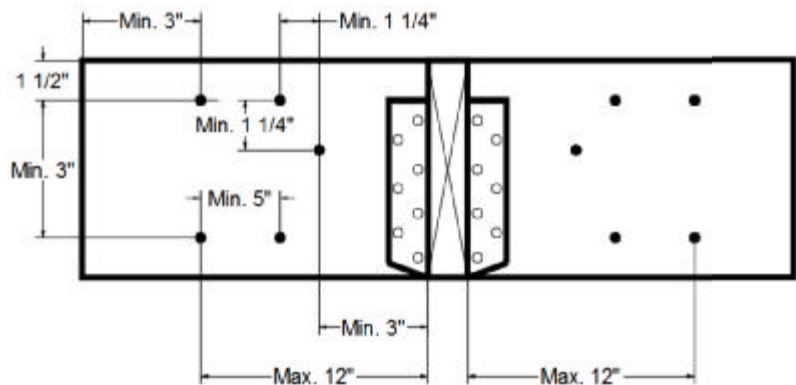
| | |
|--------------------------|-----------|
| Capacity | 64.7 % |
| Load | 182.7 PLF |
| Yield Limit per Foot | 282.4 PLF |
| Yield Limit per Fastener | 94.1 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | D+S |
| Duration Factor | 1.15 |

Concentrated Load

Fasten at concentrated side load at 12-5-8 with a minimum of (6) – 10d Box nails (.128x3") in the pattern shown. Repeat fasteners on both sides.

| | |
|--------------------------|-----------|
| Capacity | 83.6 % |
| Load | 472.0lb. |
| Total Yield Limit | 564.7 lb. |
| Cg | 0.9998 |
| Yield Limit per Fastener | 94.1 lb. |
| Yield Mode | IV |
| Load Combination | D+S |
| Duration Factor | 1.15 |

Min/Max fastener distances for Concentrated Side Loads



Notes
 Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled
- Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
- Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

Manufacturer Info
 Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

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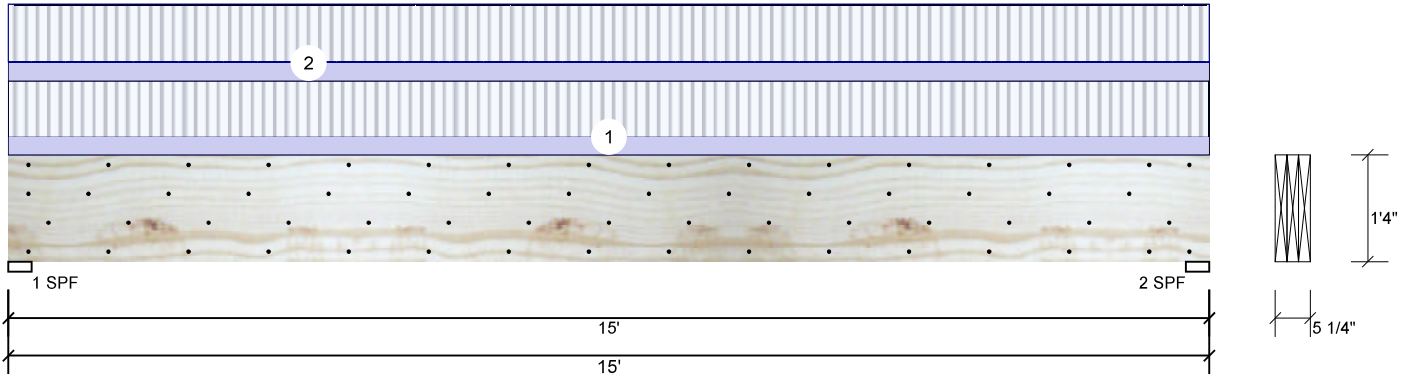


Client: Regency Homes
 Project:
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

BM2 Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED

Level: Level



Member Information

Type: Girder
 Plies: 3
 Moisture Condition: Dry
 Deflection LL: 480
 Deflection TL: 360
 Importance: Normal
 Temperature: Temp <= 100°F

Application: Floor
 Design Method: ASD
 Building Code: IBC/IRC 2015
 Load Sharing: Yes
 Deck: Not Checked
 Ceiling: Gypsum 1/2"

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 5415 | 1948 | 0 | 0 | 0 |
| 2 | 5415 | 1948 | 0 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|---------|--------|------------|-------------|-------|----------|-----------|
| 1 - SPF | 3.500" | 94% | 1948 / 5415 | 7363 | L | D+L |
| 2 - SPF | 3.500" | 94% | 1948 / 5415 | 7363 | L | D+L |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|---------------|-----------|---------------|--------------|-------|------|
| Moment | 26022 ft-lb | 7'6" | 53922 ft-lb | 0.483 (48%) | D+L | L |
| Unbraced | 26022 ft-lb | 7'6" | 26044 ft-lb | 0.999 (100%) | D+L | L |
| Shear | 7123 lb | 1'6 5/8" | 17920 lb | 0.397 (40%) | D+L | L |
| LL Defl inch | 0.230 (L/759) | 7'6 1/16" | 0.364 (L/480) | 0.630 (63%) | L | L |
| TL Defl inch | 0.313 (L/559) | 7'6 1/16" | 0.485 (L/360) | 0.640 (64%) | D+L | L |

Design Notes

- 1 Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top must be laterally braced at a maximum of 6'8 5/8" o.c.
- 5 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-------------|----------|------------|-----------|----------|---------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Far Face | 118 PLF | 354 PLF | 0 PLF | 0 PLF | 0 PLF | F1 |
| 2 | Uniform | | | Near Face | 123 PLF | 368 PLF | 0 PLF | 0 PLF | 0 PLF | F2 |
| | Self Weight | | | | 19 PLF | | | | | |

Notes
 Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation
 1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

Manufacturer Info
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 (800) 622-5850
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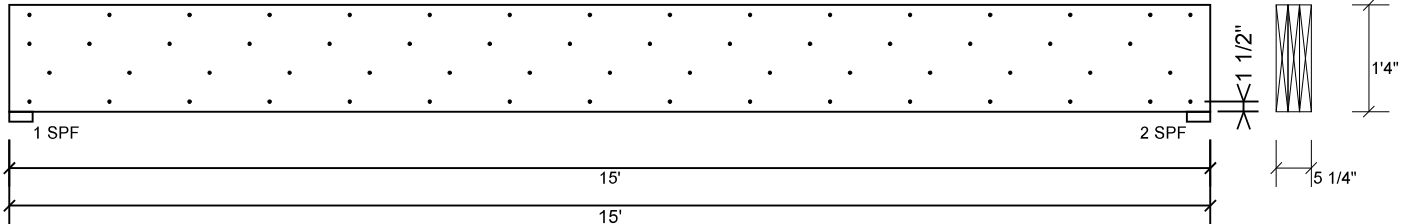


Client: Regency Homes
 Project:
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

BM2 Kerto-S LVL 1.750" X 16.000" 3-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 4 rows of 10d Box nails (.128x3") at 12" o.c.. Nail from both sides. Maximum end distance not to exceed 6"

| | |
|--------------------------|-----------|
| Capacity | 100.0 % |
| Load | 327.3 PLF |
| Yield Limit per Foot | 327.4 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | D+L |
| Duration Factor | 1.00 |

Notes

Calculated Structural Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

Manufacturer Info

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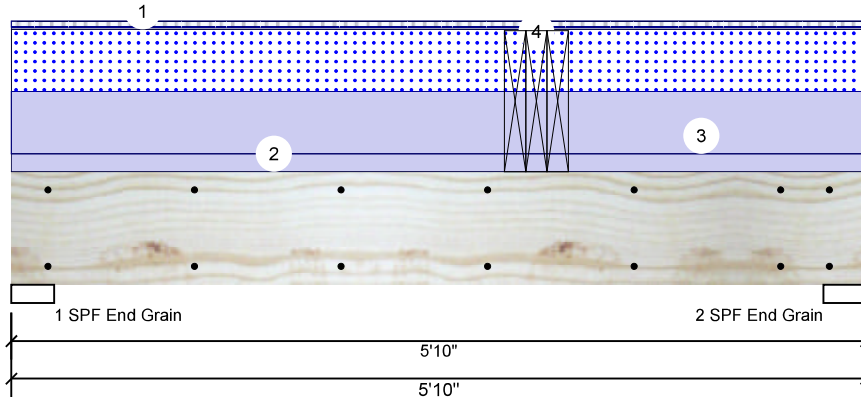


Client: Regency Homes
 Project:
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 360 |
| Importance: | Normal |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | No |
| Deck: | Not Checked |
| Ceiling: | Gypsum 1/2" |

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 2153 | 2357 | 1210 | 0 | 0 |
| 2 | 3496 | 2840 | 1210 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total | Ld. Case | Ld. Comb. |
|-------------------|--------|------------|-------------|-------|----------|-------------|
| 1 - SPF End Grain | 3.500" | 46% | 2357 / 2522 | 4880 | L | D+0.75(L+S) |
| 2 - SPF End Grain | 3.500" | 60% | 2840 / 3530 | 6370 | L | D+0.75(L+S) |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|---------------|----------|---------------|--------------|-------|------|
| Moment | 11308 ft-lb | 3'7" | 12542 ft-lb | 0.902 (90%) | D+L | L |
| Unbraced | 11308 ft-lb | 3'7" | 11327 ft-lb | 0.998 (100%) | D+L | L |
| Shear | 5739 lb | 4'10" | 6907 lb | 0.831 (83%) | D+L | L |
| LL Defl inch | 0.084 (L/764) | 3'4 7/8" | 0.134 (L/480) | 0.630 (63%) | L | L |
| TL Defl inch | 0.143 (L/451) | 3'3 5/8" | 0.179 (L/360) | 0.800 (80%) | D+L | L |

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 4'3" o.c.
- 6 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|-------------------|-----------------|------------|------|----------|---------|-----------|----------|-------------|-----------|
| 1 | Tie-In | 0-0-0 to 5-10-0 | 1-0-0 | Top | 15 PSF | 40 PSF | 0 PSF | 0 PSF | 0 PSF | Floor |
| 2 | Uniform | | | Top | 120 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| 3 | Uniform | | | Top | 415 PLF | 0 PLF | 415 PLF | 0 PLF | 0 PLF | A3 |
| 4 | Point Self Weight | 3-7-0 | | Top | 1948 lb | 5415 lb | 0 lb | 0 lb | 0 lb | BM2 Brg 2 |

Notes
 Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

Manufacturer Info

Metsä Wood
 301 Merritt 7 Building, 2nd Floor
 Norwalk, CT 06851
 (800) 622-5850
www.metsawood.com/us
 ICC-ES: ESR-3633

Comtech, Inc.
 1001 S. Reilly Road, Suite #639
 Fayetteville, NC
 USA
 28314
 910-864-TRUS

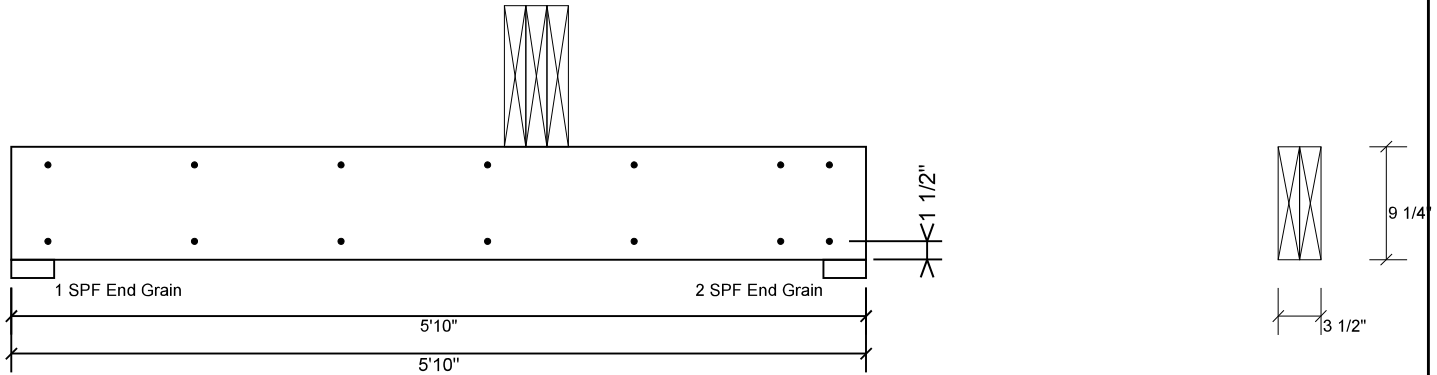


Client: Regency Homes
 Project:
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

BM3 Kerto-S LVL 1.750" X 9.250" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

| | |
|--------------------------|-----------|
| Capacity | 0.0 % |
| Load | 0.0 PLF |
| Yield Limit per Foot | 163.7 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Lumber

1. Dry service conditions, unless noted otherwise
2. LVL not to be treated with fire retardant or corrosive

chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
3. Damaged Beams must not be used
4. Design assumes top edge is laterally restrained
5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/24/2023

Manufacturer Info

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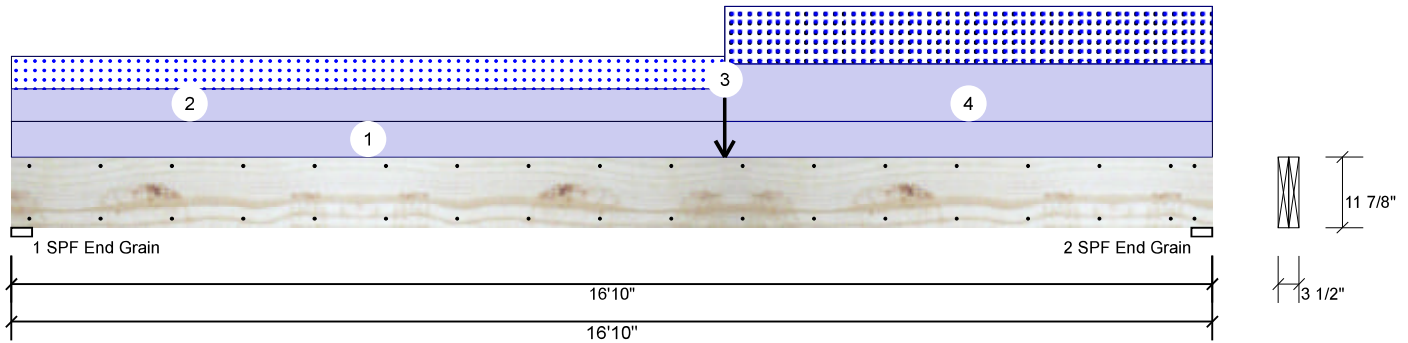


Client: Regency Homes
 Project:
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Member Information

| | |
|---------------------|---------------|
| Type: | Girder |
| Plies: | 2 |
| Moisture Condition: | Dry |
| Deflection LL: | 480 |
| Deflection TL: | 360 |
| Importance: | Normal |
| Temperature: | Temp <= 100°F |

| | |
|----------------|--------------|
| Application: | Floor |
| Design Method: | ASD |
| Building Code: | IBC/IRC 2015 |
| Load Sharing: | No |
| Deck: | Not Checked |
| Ceiling: | Gypsum 1/2" |

Reactions UNPATTERNED lb (Uplift)

| Brg | Live | Dead | Snow | Wind | Const |
|-----|------|------|------|------|-------|
| 1 | 0 | 1190 | 608 | 0 | 0 |
| 2 | 0 | 1408 | 825 | 0 | 0 |

Bearings

| Bearing | Length | Cap. React | D/L lb | Total Ld. | Case | Ld. Comb. |
|-------------------|--------|------------|------------|-----------|------|-----------|
| 1 - SPF End Grain | 3.500" | 17% | 1190 / 608 | 1798 | L | D+S |
| 2 - SPF End Grain | 3.500" | 21% | 1408 / 825 | 2233 | L | D+S |

Analysis Results

| Analysis | Actual | Location | Allowed | Capacity | Comb. | Case |
|--------------|----------------|------------|---------------|--------------|-------|------|
| Moment | 8610 ft-lb | 10' | 22897 ft-lb | 0.376 (38%) | D+S | L |
| Unbraced | 8610 ft-lb | 10' | 8629 ft-lb | 0.998 (100%) | D+S | L |
| Shear | 1912 lb | 15'7 3/8" | 10197 lb | 0.188 (19%) | D+S | L |
| LL Defl inch | 0.158 (L/1246) | 8'8 13/16" | 0.409 (L/480) | 0.390 (39%) | S | L |
| TL Defl inch | 0.436 (L/450) | 8'7 3/4" | 0.546 (L/360) | 0.800 (80%) | D+S | L |

Design Notes

- 1 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 2 Refer to last page of calculations for fasteners required for specified loads.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 11' 3/4" o.c.
- 6 Lateral slenderness ratio based on single ply width.

| ID | Load Type | Location | Trib Width | Side | Dead 0.9 | Live 1 | Snow 1.15 | Wind 1.6 | Const. 1.25 | Comments |
|----|---------------|-------------------|------------|------|----------|--------|-----------|----------|-------------|----------|
| 1 | Uniform | | | Top | 60 PLF | 0 PLF | 0 PLF | 0 PLF | 0 PLF | Wall |
| 2 | Part. Uniform | 0-0-0 to 10-0-0 | | Top | 55 PLF | 0 PLF | 55 PLF | 0 PLF | 0 PLF | M1 |
| 3 | Point | 10-0-0 | | Top | 220 lb | 0 lb | 220 lb | 0 lb | 0 lb | M2A |
| 4 | Part. Uniform | 10-0-0 to 16-10-0 | | Top | 97 PLF | 0 PLF | 97 PLF | 0 PLF | 0 PLF | M2 |
| | Self Weight | | | | 9 PLF | | | | | |

Notes
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Lumber
 1. Dry service conditions, unless noted otherwise
 2. LVL not to be treated with fire retardant or corrosive chemicals

- Handling & Installation**
1. LVL beams must not be cut or drilled
 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
 3. Damaged Beams must not be used
 4. Design assumes top edge is laterally restrained
 5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding
 This design is valid until 4/24/2023

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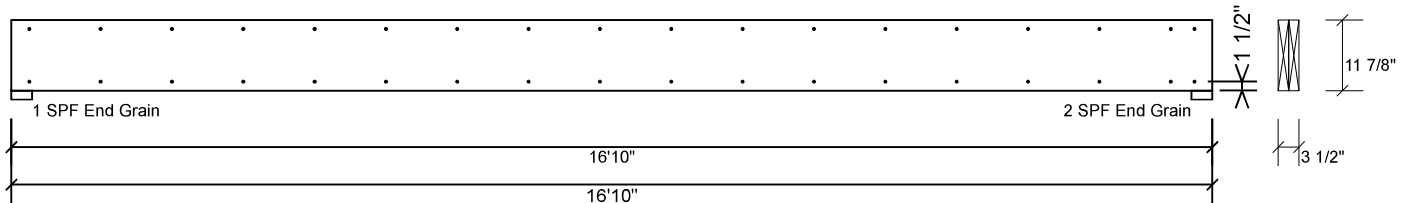


Client: Regency Homes
 Project:
 Address: Josey Williams Rd.

Date: 9/2/2021
 Input by: David Landry
 Job Name: Lot 5 Williams Farm
 Project #: J0921-5287

GDH Kerto-S LVL 1.750" X 11.875" 2-Ply - PASSED

Level: Level



Multi-Ply Analysis

Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6"

| | |
|--------------------------|-----------|
| Capacity | 0.0 % |
| Load | 0.0 PLF |
| Yield Limit per Foot | 163.7 PLF |
| Yield Limit per Fastener | 81.9 lb. |
| Yield Mode | IV |
| Edge Distance | 1 1/2" |
| Min. End Distance | 3" |
| Load Combination | |
| Duration Factor | 1.00 |

Notes

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2. LVL not to be treated with fire retardant or corrosive chemicals

Handling & Installation

1. LVL beams must not be cut or drilled
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This design is valid until 4/24/2023

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 USA
 28314
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RE: J0921-5287
Lot 5 Williams Farm

Trenco
818 Soundside Rd
Edenton, NC 27932

Site Information:

Customer: Regency Homes Project Name: J0921-5287
Lot/Block: 5 Model: Brinkley
Address: Josey Williams Rd. Subdivision: Williams Farm
City: Erwin State: NC

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: N/A Wind Speed: N/A mph
Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

| No. | Seal# | Truss Name | Date |
|-----|-----------|------------|----------|
| 1 | E16001328 | ET1 | 8/3/2021 |
| 2 | E16001329 | ET2 | 8/3/2021 |
| 3 | E16001330 | ET3 | 8/3/2021 |
| 4 | E16001331 | ET4 | 8/3/2021 |
| 5 | E16001332 | ET5 | 8/3/2021 |
| 6 | E16001333 | F1 | 8/3/2021 |
| 7 | E16001334 | F1A | 8/3/2021 |
| 8 | E16001335 | F2 | 8/3/2021 |
| 9 | E16001336 | F2A | 8/3/2021 |
| 10 | E16001337 | F3 | 8/3/2021 |
| 11 | E16001338 | F4 | 8/3/2021 |
| 12 | E16001339 | F5 | 8/3/2021 |
| 13 | E16001340 | F6 | 8/3/2021 |
| 14 | E16001341 | FG1 | 8/3/2021 |
| 15 | E16001342 | FG2 | 8/3/2021 |

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



August 03, 2021

| | | | | | | |
|-------------------|--------------|-------------------------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss ET1 | Truss Type Floor Supported Gable | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001328 |
|-------------------|--------------|-------------------------------------|----------|----------|---|-----------|

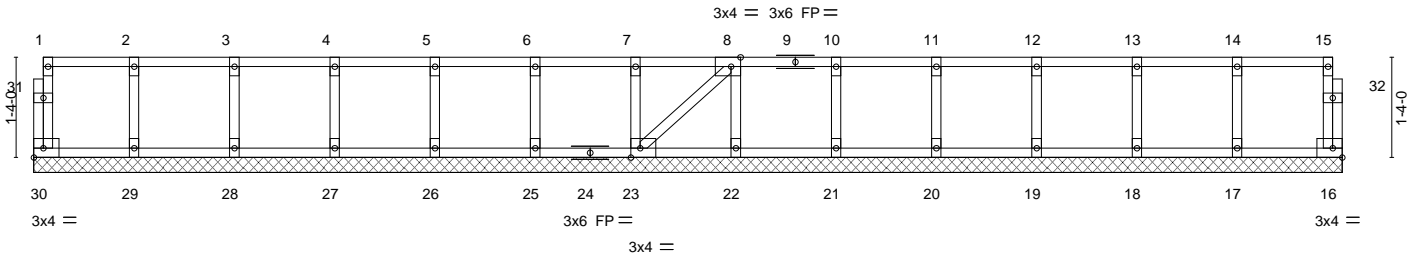
Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:21 2021 Page 1
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0-1/8

0-1/8

Scale = 1:28.8



| | |
|-----------------------|---------------------------------|
| Plate Offsets (X,Y)-- | [8:0-1-8,Edge], [23:0-1-8,Edge] |
|-----------------------|---------------------------------|

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|------------------------------|----------|----------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | 2-0-0 Plate Grip DOL 1.00 | TC 0.06 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.01 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.03 | Horz(CT) | 0.00 | 16 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 79 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |
| OTHERS 2x4 SP No.3(flat) | |

REACTIONS. All bearings 17-4-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 23, 22, 21, 20, 19, 18, 17

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

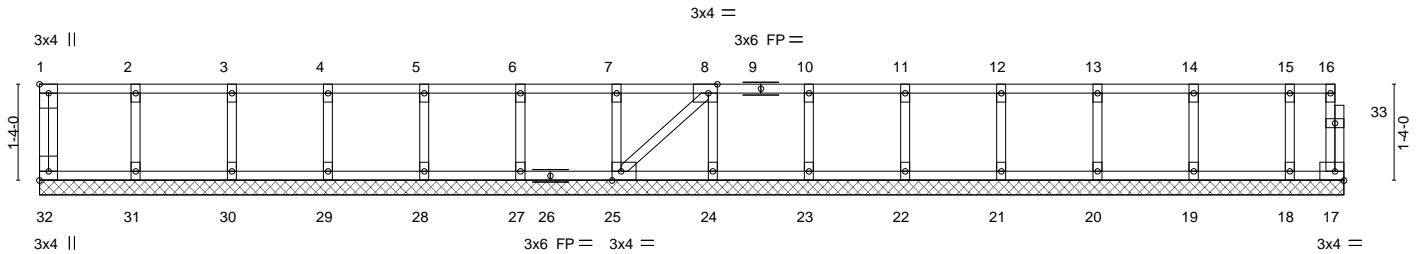
| | | | | | | |
|-------------------|--------------|-------------------------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss ET2 | Truss Type Floor Supported Gable | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001329 |
|-------------------|--------------|-------------------------------------|----------|----------|---|-----------|

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:22 2021 Page 1
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0-1-8

Scale = 1:30.1



| | |
|-----------------------|--|
| Plate Offsets (X,Y)-- | [1:Edge,0-1-8], [8:0-1-8,Edge], [25:0-1-8,Edge], [32:Edge,0-1-8] |
|-----------------------|--|

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|------------------------------|----------|---|---------------|-----------------|
| TCLL 40.0 | 2-0-0 Plate Grip DOL 1.00 | TC 0.06 | in (loc) l/defl L/d Vert(LL) n/a - n/a 999 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.01 | Vert(CT) n/a - n/a 999 | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.03 | Horz(CT) 0.00 17 n/a n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 83 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |
| OTHERS 2x4 SP No.3(flat) | |

REACTIONS. All bearings 18-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 25, 24, 23, 22, 21, 20, 19, 18

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1'-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



August 3, 2021

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| | | | | | | |
|-------------------|--------------|-------------------------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss ET3 | Truss Type Floor Supported Gable | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001330 |
|-------------------|--------------|-------------------------------------|----------|----------|---|-----------|

Comtech, Inc., Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:22 2021 Page 1
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0.1-8

Scale = 1:13.9

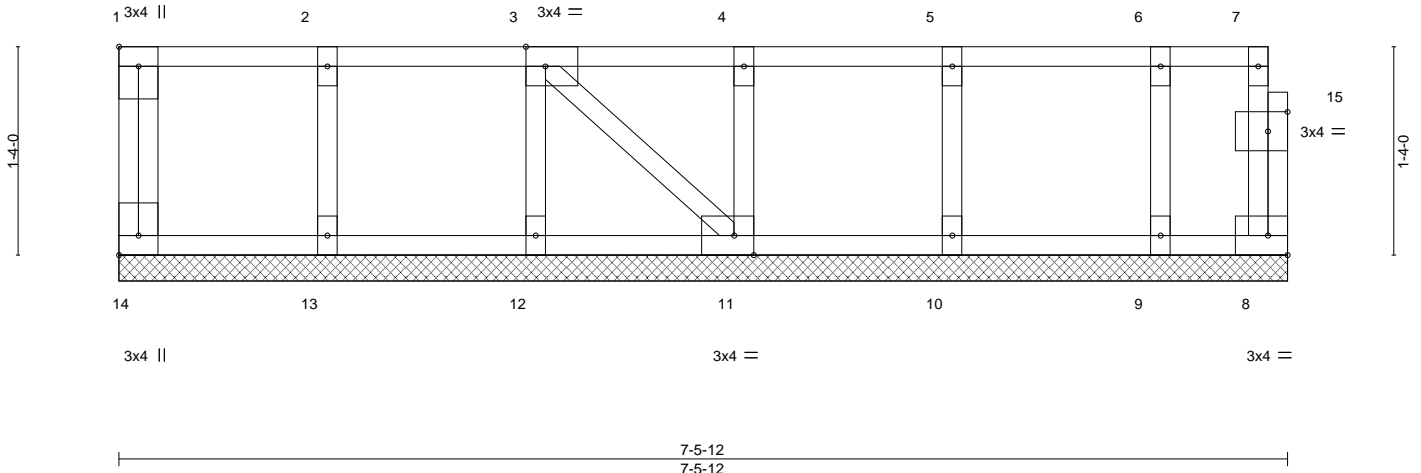


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [11:0-1-8,Edge], [14:Edge,0-1-8], [15:0-1-8,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.06 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.01 | Vert(LL) n/a - n/a 999 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.03 | Vert(CT) n/a - n/a 999 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-P | Horz(CT) 0.00 8 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 39 lb | FT = 20%F, 11%E |

| LUMBER- | BRACING- |
|-----------------------------|---|
| TOP CHORD 2x4 SP No.1(flat) | TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. |
| BOT CHORD 2x4 SP No.1(flat) | BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. |
| WEBS 2x4 SP No.3(flat) | |
| OTHERS 2x4 SP No.3(flat) | |

REACTIONS. All bearings 7-5-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 14, 8, 13, 12, 11, 10, 9

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1'-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
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August 3, 2021

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| | | | | | | |
|------------|-------|-----------------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001331 |
| J0921-5287 | ET4 | Floor Supported Gable | 1 | 1 | Job Reference (optional) | |

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:23 2021 Page 1
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0.1-8

Scale = 1:16.9

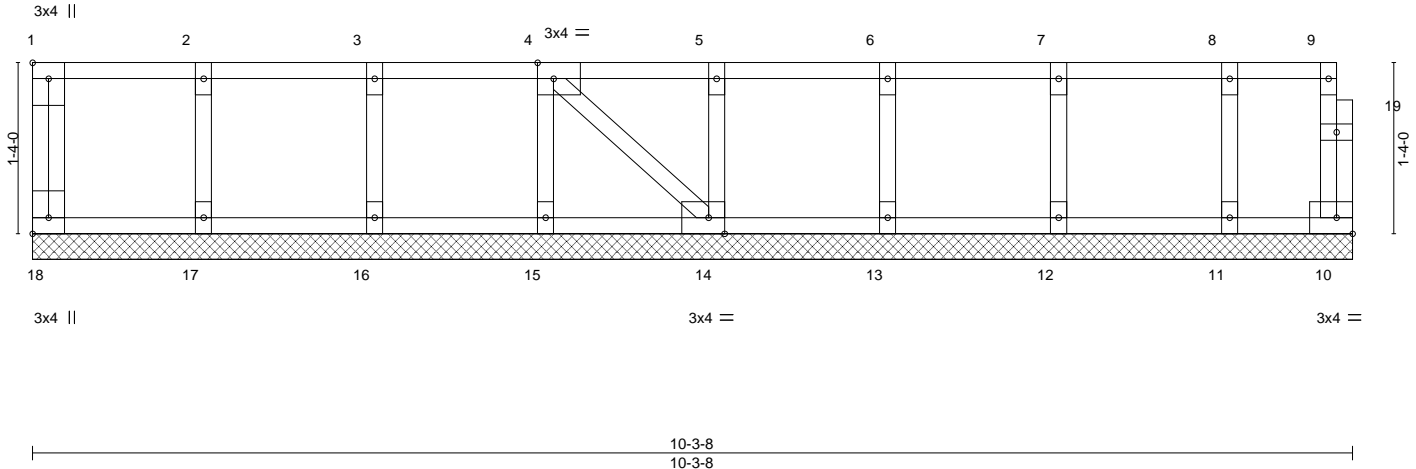


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [14:0-1-8,Edge], [18:Edge,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|------------------------------|----------|----------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | 2-0-0 Plate Grip DOL 1.00 | TC 0.06 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.01 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.03 | Horz(CT) | 0.00 | 10 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | Weight: 50 lb | FT = 20%F, 11%E |

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)
OTHERS 2x4 SP No.3 (flat)

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

REACTIONS. All bearings 10-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1'-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 7) CAUTION, Do not erect truss backwards.



August 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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818 Soundside Road
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| | | | | | | |
|-------------------|--------------|-------------------------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss ET5 | Truss Type Floor Supported Gable | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001332 |
|-------------------|--------------|-------------------------------------|----------|----------|---|-----------|

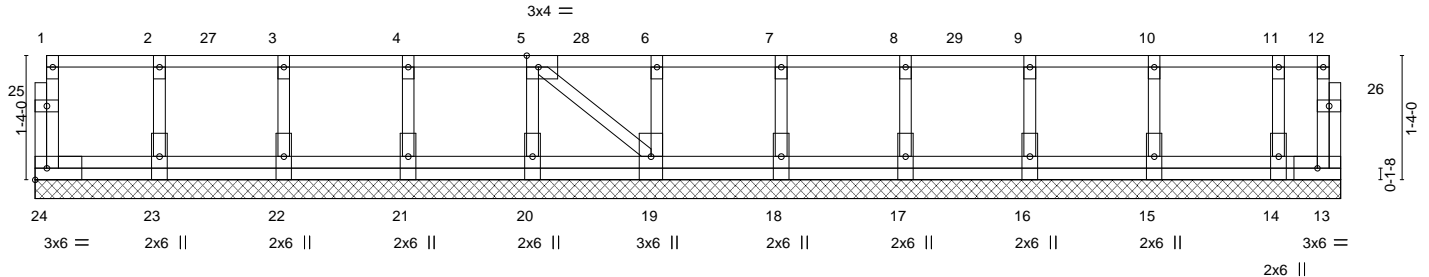
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:23 2021 Page 1
ID:I4HRAT3eIT9qoRldAoEs_5z0Axy-IONq3Eil5KQ4uiXH8RFIW0aKU7RkVAJW5xAezEyr6_

0-1-8

0-1-8

Scale = 1:23.3



| | | | | | | | | | |
|--------------------------------------|----------------------|------------------|-------------|--------------|----------|--------|-----|---------------|-----------------|
| Plate Offsets (X,Y)-- [5:0-1-8,Edge] | | 14-0-0 14-0-0 | | | | | | | |
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.12 | Vert(LL) | n/a | - | n/a | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.00 | Vert(CT) | n/a | - | n/a | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.05 | Horz(CT) | 0.00 | 13 | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 84 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)
OTHERS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

All bearings 14-0-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

FORCES.

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

NOTES-

- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 13-24=-10, 1-12=-100
Concentrated Loads (lb)
Vert: 4=-91 7=-91 10=-91 27=-91 28=-91 29=-91



August 3, 2021

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|-------------------|-------------|---------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss F1 | Truss Type Floor | Qty 6 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001333 |
|-------------------|-------------|---------------------|----------|----------|---|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:24 2021 Page 1
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0-1-8



Scale = 1:29.2

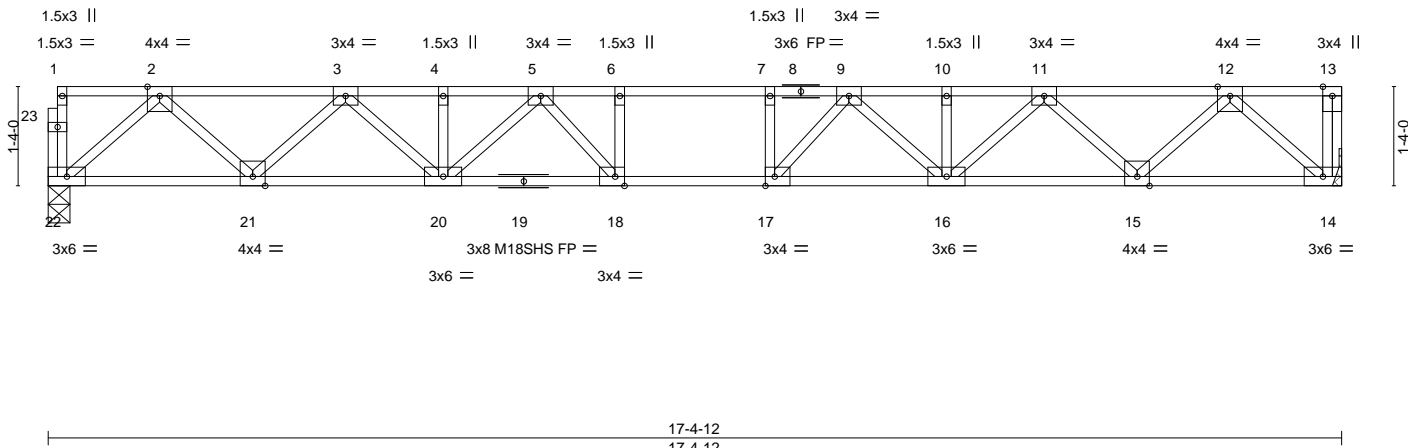


Plate Offsets (X,Y)-- [17:0-1-8,Edge], [18:0-1-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.48 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.69 | Vert(LL) -0.19 17-18 >999 480 | M18SHS | 244/190 |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.46 | Vert(CT) -0.26 17-18 >777 360 | | |
| BCDL 5.0 | Rep Stress Incr YES | Matrix-S | Horz(CT) 0.06 14 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 93 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

BRACING-

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

REACTIONS.

(size) 22=0-3-8, 14=Mechanical
Max Grav 22=937(LC 1), 14=943(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1705/0, 3-4=-2823/0, 4-5=-2823/0, 5-6=-3312/0, 6-7=-3312/0, 7-9=-3312/0, 9-10=-2823/0, 10-11=-2823/0, 11-12=-1705/0
BOT CHORD 21-22=0/1015, 20-21=0/2365, 18-20=0/3144, 17-18=0/3312, 16-17=0/3144, 15-16=0/2365, 14-15=0/1016
WEBS 2-22=-1349/0, 2-21=0/960, 3-21=-918/0, 3-20=0/622, 5-20=-436/0, 12-14=-1352/0, 12-15=0/959, 11-15=-918/0, 11-16=0/623, 9-16=-436/0, 9-17=-86/552, 7-17=-313/5, 5-18=-86/552, 6-18=-313/5

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.



August 3, 2021

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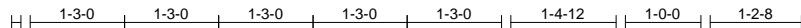
818 Soundside Road
Edenton, NC 27932

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|-------------------|--------------|---------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss F1A | Truss Type Floor | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001334 |
|-------------------|--------------|---------------------|----------|----------|---|-----------|

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:25 2021 Page 1
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0-1-8



Scale = 1:28.8

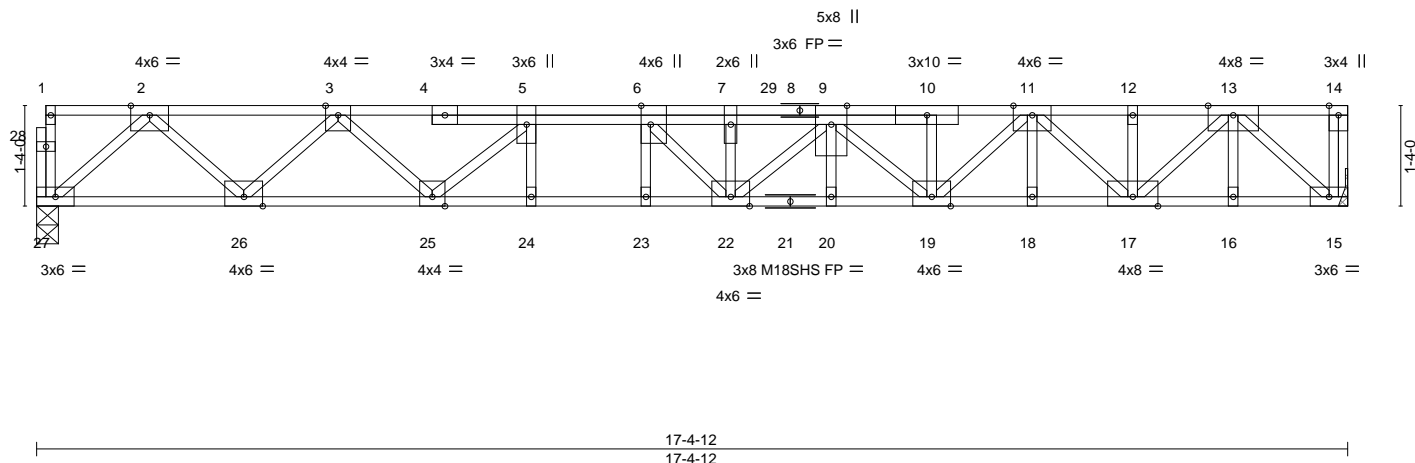


Plate Offsets (X,Y)-- [6:0-3-0,Edge]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------------|--------|-----|----------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.41 | Vert(LL) | -0.21 22-23 | >985 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.65 | Vert(CT) | -0.29 22-23 | >707 | 360 | M18SHS | 244/190 |
| BCLL 0.0 | Rep Stress Incr | NO | WB 0.66 | Horz(CT) | 0.06 15 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 108 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(size) 27=0-3-8, 15=Mechanical
Max Grav 27=1112(LC 1), 15=1169(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2077/0, 3-5=-3610/0, 5-6=-4426/0, 6-7=-4969/0, 7-9=-4969/0, 9-10=-3904/0, 10-11=-3899/0, 11-12=-2304/0, 12-13=-2304/0
BOT CHORD 26-27=0/1224, 25-26=0/2895, 24-25=0/4426, 23-24=0/4426, 22-23=0/4426, 20-22=0/4648, 19-20=0/4648, 18-19=0/3179, 17-18=0/3179, 16-17=0/1273, 15-16=0/1273
WEBS 2-27=-1627/0, 2-26=0/1187, 3-26=-1138/0, 3-25=0/989, 5-25=-1130/0, 13-15=-1684/0, 13-17=0/1391, 11-17=-1180/0, 11-19=0/972, 9-19=-988/0, 9-22=0/469, 7-22=-807/0, 6-22=0/1041

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 1.5x3 MT20 unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 481 lb down at 9-9-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 15-27=-10, 1-14=-100
Concentrated Loads (lb)
Vert: 29=-401(F)



August 3, 2021

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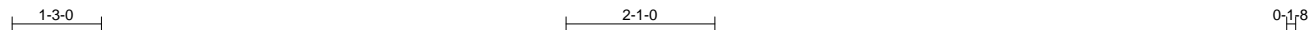


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|-------------------|-------------|---------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss F2 | Truss Type Floor | Qty 7 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001335 |
|-------------------|-------------|---------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:25 2021 Page 1
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0-1-8

Scale = 1:30.3

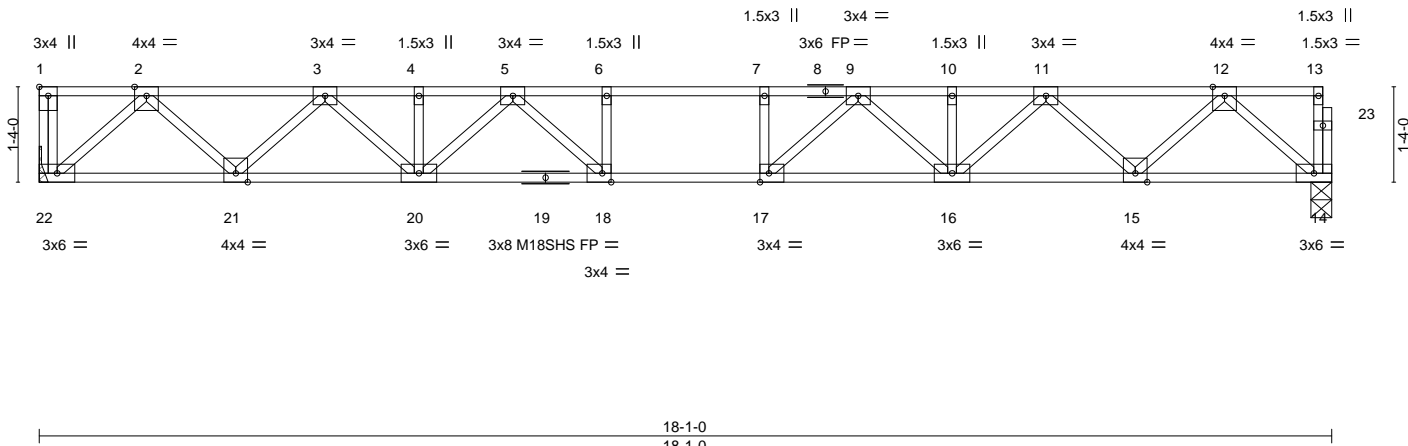


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [17:0-1-8,Edge], [18:0-1-8,Edge]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|---------------|-----------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.56 | Vert(LL) | -0.22 17-18 | >956 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.77 | Vert(CT) | -0.31 17-18 | >695 | 360 | M18SHS | 244/190 |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.48 | Horz(CT) | 0.06 14 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | |
| | | | | | | | | Weight: 96 lb | FT = 20%F, 11%E |

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

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

REACTIONS. (size) 22=Mechanical, 14=0-3-8
Max Grav 22=981(LC 1), 14=975(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1787/0, 3-4=-2985/0, 4-5=-2985/0, 5-6=-3581/0, 6-7=-3581/0, 7-9=-3581/0, 9-10=-2985/0, 10-11=-2985/0, 11-12=-1787/0
BOT CHORD 21-22=0/1058, 20-21=0/2486, 18-20=0/3347, 17-18=0/3581, 16-17=0/3347, 15-16=0/2486, 14-15=0/1058
WEBS 2-22=-1409/0, 2-21=0/1013, 3-21=-972/0, 3-20=0/678, 5-20=-492/0, 5-18=-55/627, 6-18=-316/0, 12-14=-1406/0, 12-15=0/1014, 11-15=-973/0, 11-16=0/678, 9-16=-492/0, 9-17=-55/627, 7-17=-316/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.



August 3, 2021

| | | | | | | |
|-------------------|--------------|---------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss F2A | Truss Type Floor | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001336 |
|-------------------|--------------|---------------------|----------|----------|---|-----------|

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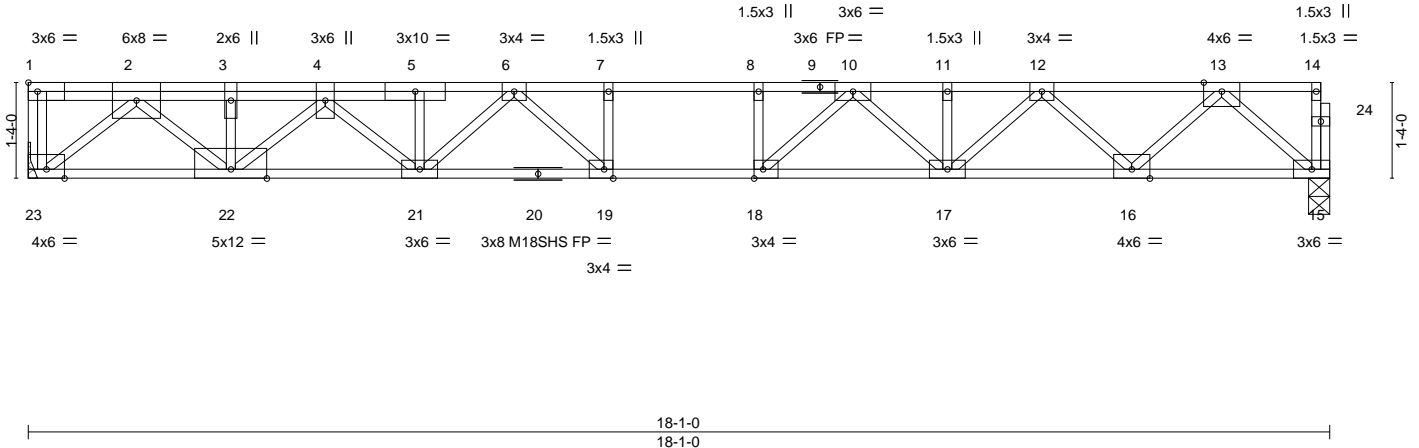
8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:26 2021 Page 1
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1-3-0

1-11-8

0-1-8

Scale = 1:30.1



| LOADING (psf) | SPACING- | CSI. | DEFL. | PLATES | GRIP |
|---------------|----------------------|----------|-------------------------------|----------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.65 | in (loc) l/defl L/d | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.70 | Vert(LL) -0.24 19-21 >893 480 | M18SHS | 244/190 |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.91 | Vert(CT) -0.33 19-21 >643 360 | | |
| BCDL 5.0 | Rep Stress Incr NO | Matrix-S | Horz(CT) 0.06 15 n/a n/a | | |
| | Code IRC2015/TPI2014 | | | Weight: 104 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP 2400F 2.0E(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(size) 23=Mechanical, 15=0-3-8
 Max Grav 23=1498(LC 1), 15=1066(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3133/0, 3-4=-3133/0, 4-5=-3993/0, 5-6=-3987/0, 6-7=-4253/0, 7-8=-4253/0, 8-10=-4253/0, 10-11=-3371/0, 11-12=-3371/0, 12-13=-1987/0
 BOT CHORD 22-23=0/1699, 21-22=0/3727, 19-21=0/4221, 18-19=0/4253, 17-18=0/3839, 16-17=0/2775, 15-16=0/1163
 WEBS 2-23=-2212/0, 2-22=0/1902, 3-22=-712/0, 4-22=-789/0, 4-21=0/346, 13-15=-1545/0, 13-16=0/1146, 12-16=-1097/0, 12-17=0/810, 10-17=-636/0, 10-18=0/862, 8-18=-418/0, 6-21=-318/0, 6-19=-321/322

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 689 lb down at 2-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 15-23=-10, 1-14=-100
 Concentrated Loads (lb)
 Vert: 3=-609(F)



August 3, 2021

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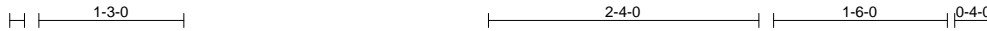
818 Soundside Road
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|-------------------|-------------|---------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss F3 | Truss Type Floor | Qty 2 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001337 |
|-------------------|-------------|---------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:27 2021 Page 1
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0-1-8



Scale = 1:18.7

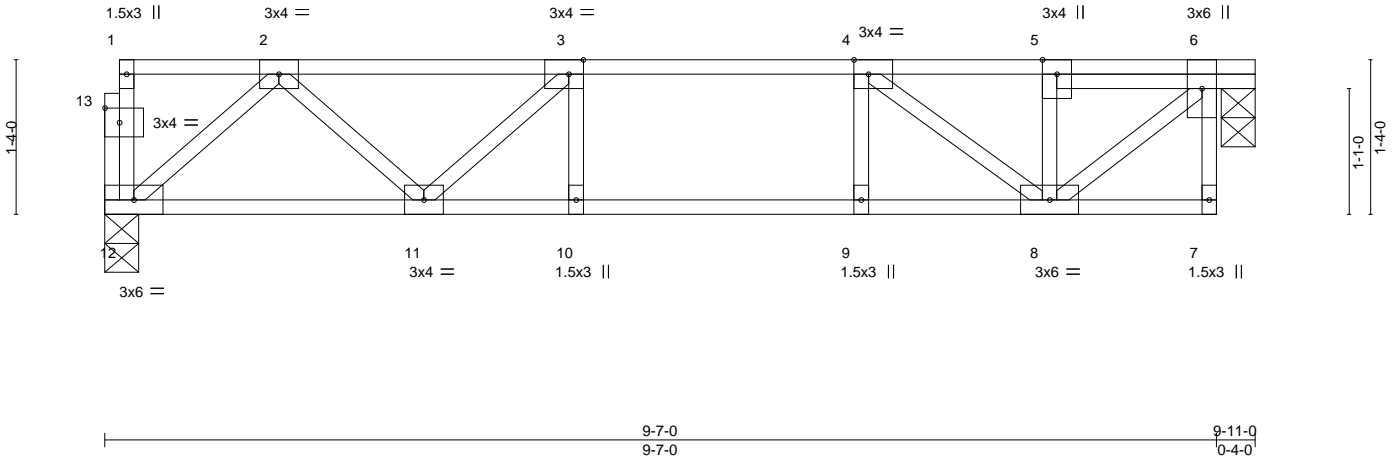


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [13:0-1-8,0-1-8]

| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in | (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|-------|----------|----------|-------|-------|--------|-----|---------------|-----------------|
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.40 | Vert(LL) | -0.07 | 10 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.47 | Vert(CT) | -0.09 | 10 | >999 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.31 | Horz(CT) | 0.02 | 6 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | | Weight: 53 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

BRACING-

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

REACTIONS.

(size) 12=0-3-8, 6=0-3-8
Max Grav 12=511(LC 1), 6=517(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-781/0, 3-4=-966/0, 4-5=-493/0, 5-6=-497/0
BOT CHORD 11-12=0/541, 10-11=0/966, 9-10=0/966, 8-9=0/966
WEBS 6-8=0/642, 2-12=-718/0, 2-11=0/334, 3-11=-308/0, 4-8=-629/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- CAUTION, Do not erect truss backwards.



August 3, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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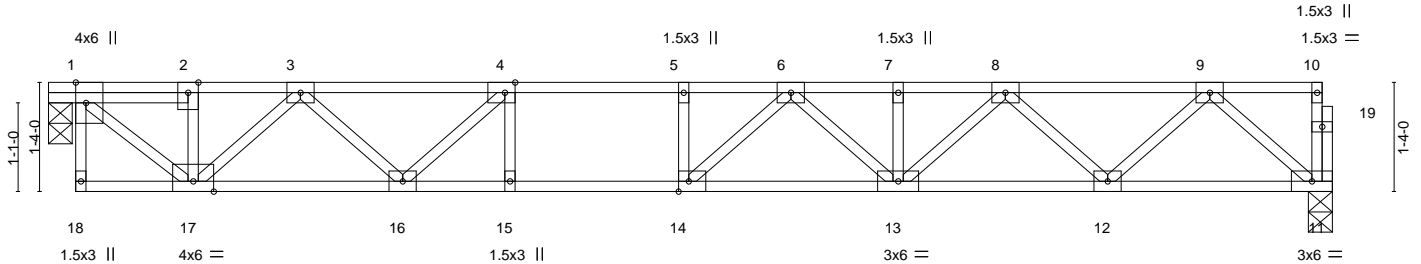
| | | | | | | |
|------------|-------|------------|-----|-----|--------------------------|-----------|
| Job | Truss | Truss Type | Qty | Ply | Lot 5 Williams Farm | E16001338 |
| J0921-5287 | F4 | Floor | 2 | 1 | Job Reference (optional) | |

Comtech, Inc. Fayetteville, NC - 28314,

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ID:I4HRAT3eIT9qRldAoEs_5z0Axy-e9clvblo9ZwVMJq2NHKhgEkt2la1RsZ6?Z8f5?rd5w



0-1-8
Scale = 1:26.5



0-4-0 15-8-8
0-4-0 15-4-8

Plate Offsets (X,Y)-- [1:0-3-0,Edge], [4:0-1-8,Edge], [14:0-1-8,Edge]

| | | | | | | | | | |
|----------------------|----------------------|-------|-------------|--------------|-------------|--------|-----|---------------|-----------------|
| LOADING (psf) | SPACING- | 2-0-0 | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL | 1.00 | TC 0.66 | Vert(LL) | -0.21 13-14 | >855 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL | 1.00 | BC 0.94 | Vert(CT) | -0.29 13-14 | >639 | 360 | | |
| BCLL 0.0 | Rep Stress Incr | YES | WB 0.54 | Horz(CT) | 0.02 11 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | | Matrix-S | | | | | Weight: 84 lb | FT = 20%F, 11%E |

LUMBER-
TOP CHORD 2x4 SP No.1 (flat)
BOT CHORD 2x4 SP No.1 (flat)
WEBS 2x4 SP No.3 (flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 2-2-0 oc bracing: 14-15.

REACTIONS. (size) 11=0-3-8, 1=0-3-8
Max Grav 11=829(LC 1), 1=835(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-881/0, 2-3=-878/0, 3-4=-1989/0, 4-5=-2524/0, 5-6=-2524/0, 6-7=-2371/0, 7-8=-2371/0, 8-9=-1469/0
BOT CHORD 16-17=0/1534, 15-16=0/2524, 14-15=0/2524, 13-14=0/2568, 12-13=0/2027, 11-12=0/891
WEBS 1-17=0/1143, 3-17=-892/0, 3-16=0/633, 4-16=-792/0, 9-11=-1184/0, 9-12=0/804, 8-12=-776/0, 8-13=0/468, 6-13=-279/0, 6-14=-258/302

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - CAUTION, Do not erect truss backwards.



August 3, 2021

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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss F5 | Truss Type Floor | Qty 3 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001339 |
|-------------------|-------------|---------------------|----------|----------|---|-----------|

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0-1-8

1-3-0

2-1-12

2-3-4

0-1-8
Scale = 1:61.1

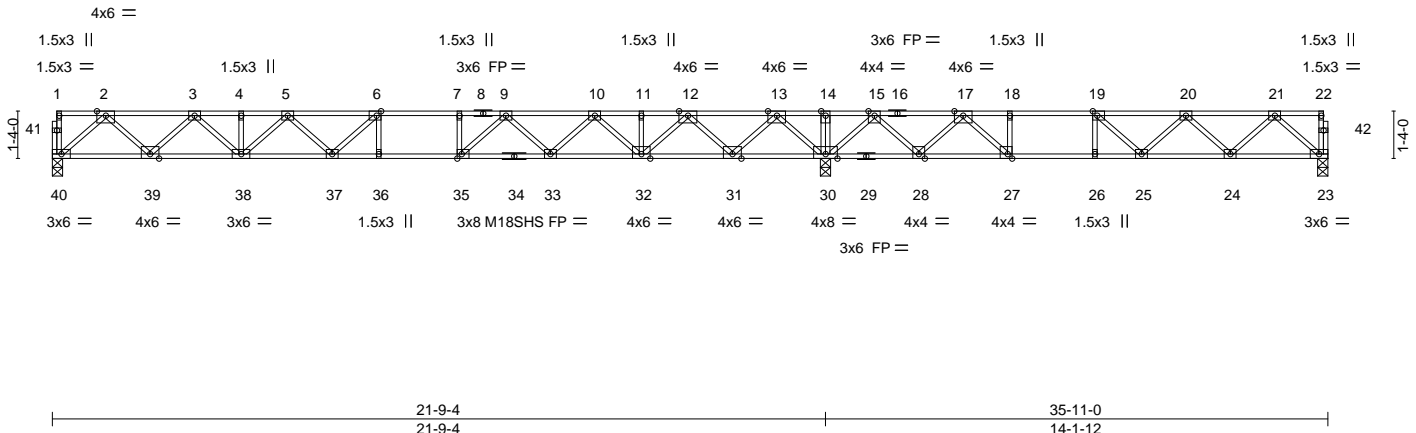


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [19:0-1-8,Edge], [27:0-1-8,Edge], [35:0-1-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|----------------|-----------------|
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.76 | Vert(LL) -0.31 | 36 | >829 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.75 | Vert(CT) -0.43 | 36 | >610 | 360 | M18SHS | 244/190 |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.73 | Horz(CT) 0.06 | 23 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 184 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(size) 40=0-3-8, 30=0-3-8, 23=0-3-8
Max Grav 40=1057(LC 10), 30=2336(LC 1), 23=679(LC 4)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1966/0, 3-4=-3327/0, 4-5=-3327/0, 5-6=-4044/0, 6-7=-4202/0, 7-9=-4202/0, 9-10=-3391/0, 10-11=-2151/0, 11-12=-2151/0, 12-13=-239/263, 13-14=0/2770, 14-15=0/2770, 15-17=-494/1577, 17-18=-1640/684, 18-19=-1640/684, 19-20=-1673/310, 20-21=-1153/65
BOT CHORD 39-40=0/1151, 38-39=0/2750, 37-38=0/3828, 36-37=0/4202, 35-36=0/4202, 33-35=0/3869, 32-33=0/2910, 31-32=0/1292, 30-31=-1325/0, 28-30=-1902/0, 27-28=-1197/1100, 26-27=-684/1640, 25-26=-684/1640, 24-25=-121/1577, 23-24=-24/710
WEBS 2-40=-1529/0, 2-39=0/1134, 3-39=-1091/0, 3-38=0/783, 13-30=-1924/0, 13-31=0/1527, 12-31=-1508/0, 12-32=0/1210, 10-32=-1075/0, 10-33=0/705, 9-33=-716/0, 5-38=-681/0, 5-37=0/422, 6-37=-483/199, 9-35=0/824, 7-35=-365/0, 15-30=-1387/0, 15-28=0/969, 17-28=-1088/0, 17-27=0/1206, 21-23=-943/33, 21-24=-57/615, 20-24=-590/78, 20-25=-263/135, 19-25=0/556, 19-26=-365/0, 18-27=-522/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 3x4 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



August 3, 2021

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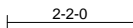
818 Soundside Road
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| | | | | | | |
|-------------------|-------------|---------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss F6 | Truss Type Floor | Qty 5 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001340 |
|-------------------|-------------|---------------------|----------|----------|---|-----------|

Comtech, Inc., Fayetteville, NC - 28314,

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0-1-8



0-1-8
Scale = 1:37.1

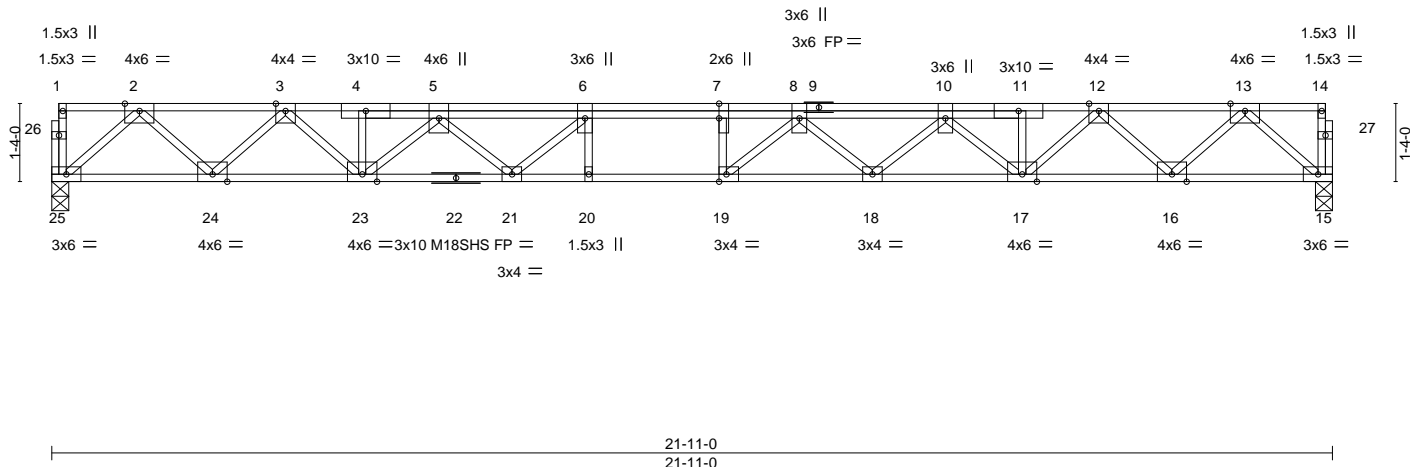


Plate Offsets (X,Y)-- [7:0-3-0,0-0-0], [19:0-1-8,Edge]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|------------------------------|----------|----------------|----------|--------|-----|----------------|-----------------|
| TCLL 40.0 | 2-0-0 Plate Grip DOL 1.00 | TC 0.24 | Vert(LL) -0.34 | 19 | >763 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.55 | Vert(CT) -0.47 | 19 | >554 | 360 | M18SHS | 244/190 |
| BCLL 0.0 | Rep Stress Incr YES | WB 0.63 | Horz(CT) 0.09 | 15 | n/a | n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | | | | | |
| | | | | | | | Weight: 129 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat)
BOT CHORD 2x4 SP 2400F 2.0E(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS.

(size) 25=0-3-8, 15=0-3-8
Max Grav 25=1185(LC 1), 15=1185(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2243/0, 3-4=-3884/0, 4-5=-3890/0, 5-6=-5113/0, 6-7=-5539/0, 7-8=-5539/0, 8-10=-5100/0, 10-11=-3889/0, 11-12=-3882/0, 12-13=-2243/0
BOT CHORD 24-25=0/1296, 23-24=0/3160, 21-23=0/4694, 20-21=0/5539, 19-20=0/5539, 18-19=0/5456, 17-18=0/4709, 16-17=0/3160, 15-16=0/1296
WEBS 2-25=-1723/0, 2-24=0/1316, 3-24=-1276/0, 3-23=0/984, 13-15=-1723/0, 13-16=0/1317, 12-16=-1276/0, 12-17=0/982, 10-17=-1098/0, 10-18=0/530, 8-18=-483/0, 5-23=-1075/0, 5-21=0/745, 6-21=-802/0, 8-19=-358/654, 7-19=-367/203

NOTES-

- Unbalanced floor live loads have been considered for this design.
- All plates are MT20 plates unless otherwise indicated.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



August 3, 2021

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| | | | | | | |
|-------------------|--------------|----------------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss FG1 | Truss Type Floor Girder | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001341 |
|-------------------|--------------|----------------------------|----------|----------|---|-----------|

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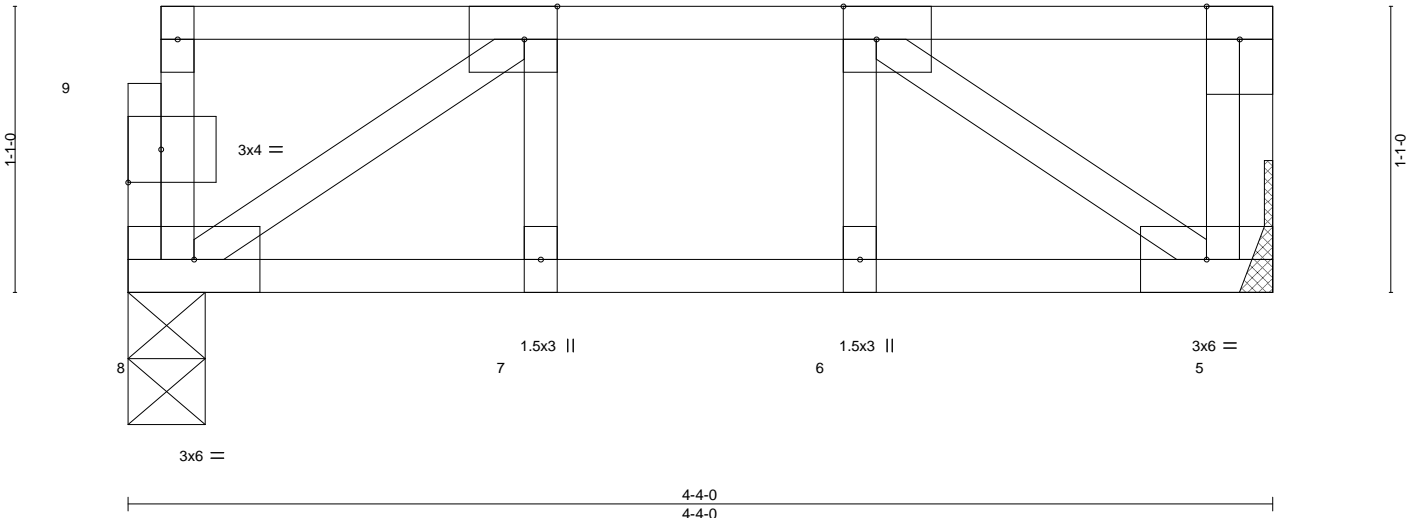
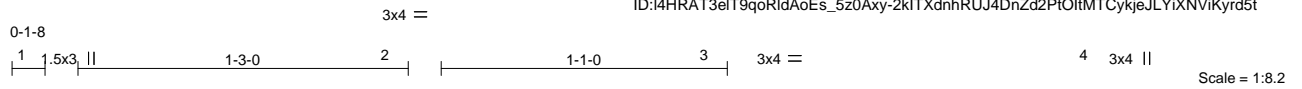


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

| | | | | | |
|----------------------|-----------------------|-------------|----------------------------------|---------------|-----------------|
| LOADING (psf) | SPACING- 2-0-0 | CSI. | DEFL. in (loc) l/defl L/d | PLATES | GRIP |
| TCLL 40.0 | Plate Grip DOL 1.00 | TC 0.28 | Vert(LL) -0.02 5-6 >999 480 | MT20 | 244/190 |
| TCDL 10.0 | Lumber DOL 1.00 | BC 0.36 | Vert(CT) -0.02 5-6 >999 360 | | |
| BCLL 0.0 | Rep Stress Incr NO | WB 0.16 | Horz(CT) 0.00 5 n/a n/a | | |
| BCDL 5.0 | Code IRC2015/TPI2014 | Matrix-S | | Weight: 24 lb | FT = 20%F, 11%E |

LUMBER-

TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 5=Mechanical
Max Grav 8=810(LC 1), 5=501(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-481/0, 2-3=-558/0
BOT CHORD 7-8=0/558, 6-7=0/558, 5-6=0/558
WEBS 3-5=-671/0, 2-8=-633/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 1=-452 3=-417



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| | | | | | | |
|-------------------|--------------|----------------------------|----------|----------|---|-----------|
| Job J0921-5287 | Truss FG2 | Truss Type Floor Girder | Qty 1 | Ply 1 | Lot 5 Williams Farm Job Reference (optional) | E16001342 |
|-------------------|--------------|----------------------------|----------|----------|---|-----------|

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8,430 s Jun 2 2021 MiTek Industries, Inc. Tue Aug 3 07:54:31 2021 Page 1

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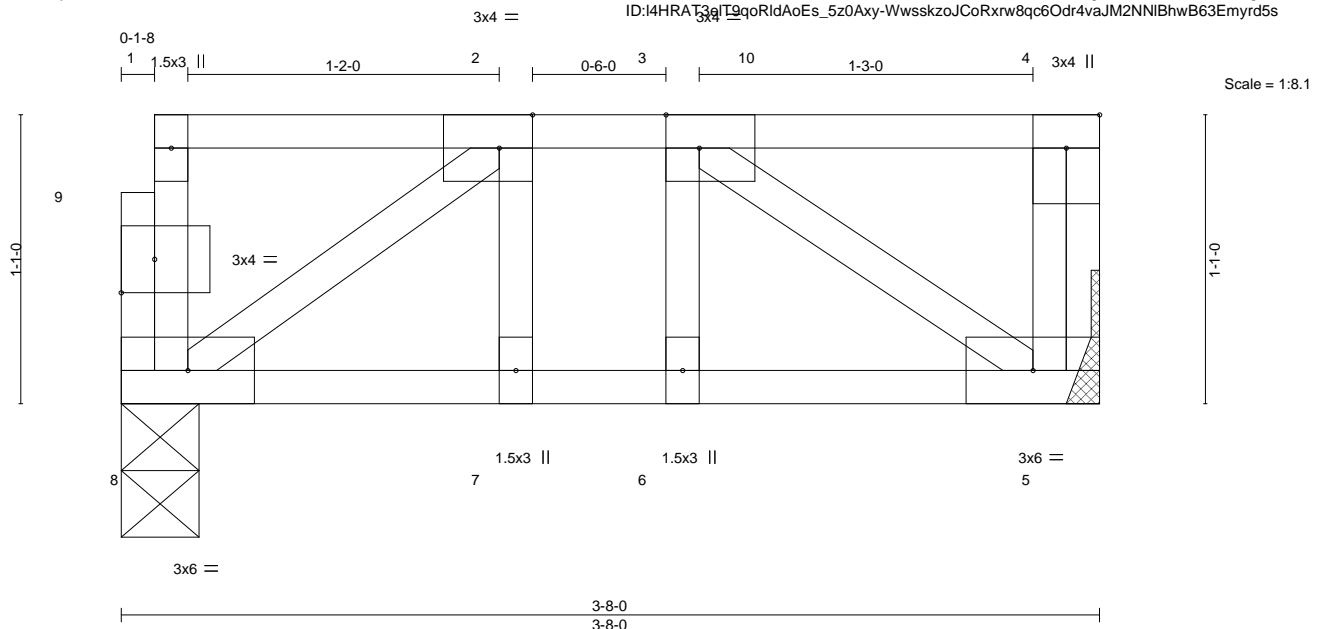


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,0-1-8]

| LOADING (psf) | SPACING- | CSI. | DEFL. | in (loc) | l/defl | L/d | PLATES | GRIP |
|---------------|----------------------|----------|----------------|----------|--------|-----|---------------|-----------------|
| TCLL 40.0 | 2-0-0 | TC 0.58 | Vert(LL) -0.02 | 5-6 | >999 | 480 | MT20 | 244/190 |
| TCDL 10.0 | Plate Grip DOL 1.00 | BC 0.46 | Vert(CT) -0.02 | 5-6 | >999 | 360 | | |
| BCLL 0.0 | Lumber DOL 1.00 | WB 0.18 | Horz(CT) 0.00 | 5 | n/a | n/a | | |
| BCDL 5.0 | Rep Stress Incr NO | Matrix-S | | | | | Weight: 22 lb | FT = 20%F, 11%E |
| | Code IRC2015/TPI2014 | | | | | | | |

LUMBER-

TOP CHORD 2x4 SP 2400F 2.0E(flat)
 BOT CHORD 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 5=Mechanical
 Max Grav 8=1167(LC 1), 5=709(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-8=-785/0, 2-3=-649/0
 BOT CHORD 7-8=0/649, 6-7=0/649, 5-6=0/649
 WEBS 3-5=-780/0, 2-8=-733/0, 2-7=0/274, 3-6=-254/0

NOTES-

- Unbalanced floor live loads have been considered for this design.
- Plates checked for a plus or minus 1 degree rotation about its center.
- Refer to girder(s) for truss to truss connections.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

- Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
 Uniform Loads (plf)
 Vert: 5-8=-10, 1-4=-100
 Concentrated Loads (lb)
 Vert: 1=-771 10=-735



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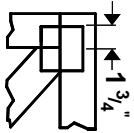
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



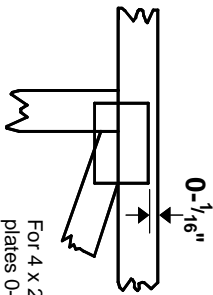
818 Soundside Road
 Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

— This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 20/20** software or upon request.

PLATE SIZE

4 X 4

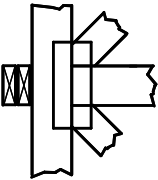
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



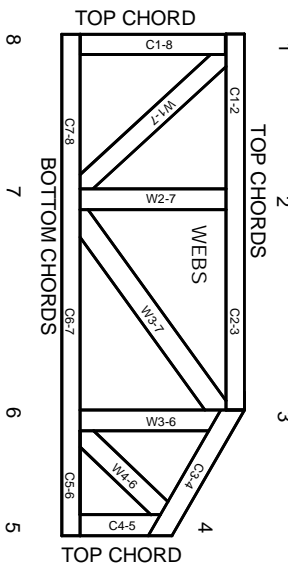
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/ITP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

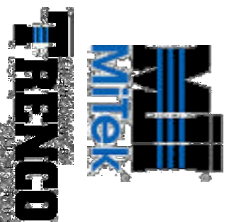
ICC-ES Reports:

ESR-1311, ESR-1352, ESR 1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPP 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPP 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPP 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPP 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.