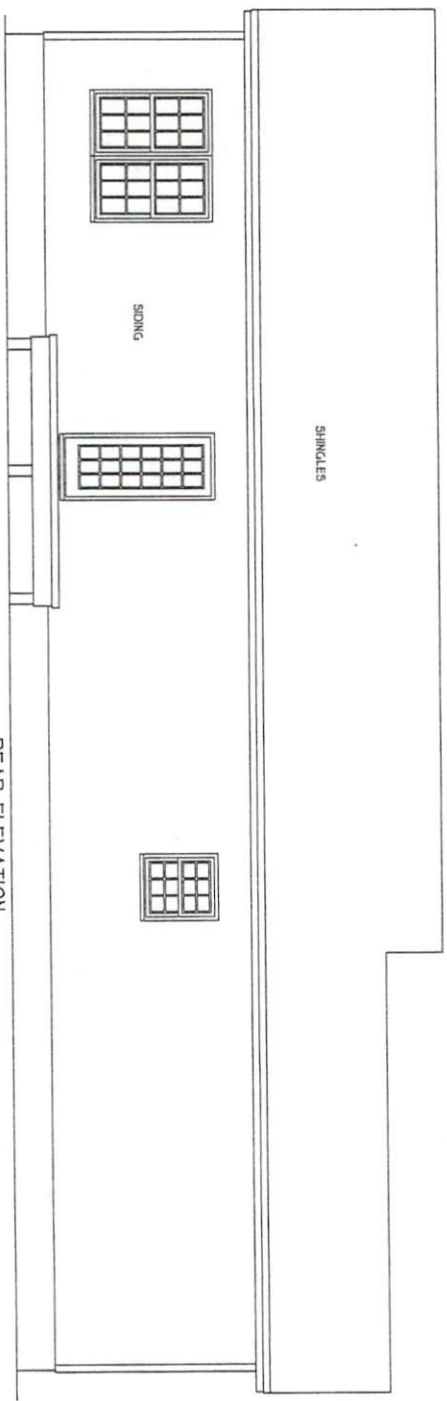


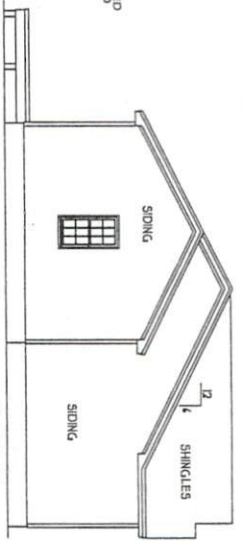
FRONT ELEVATION
SCALE 1/4" = 1'-0"



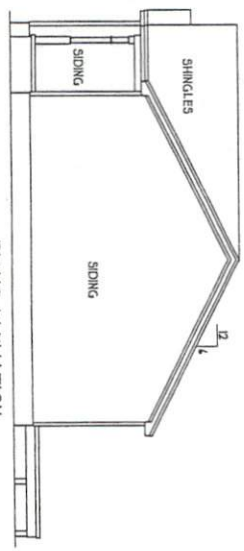
REAR ELEVATION
SCALE 1/4" = 1'-0"

ENERGY COMPLIANCE
ZONE 3 = MAX. GLAZING U-FACTOR: .35
R-VALUE = CEILING R9, WALLS R5,
FLOORS R9
ZONE 4 = MAX. GLAZING U-FACTOR: .35
R-VALUE = CEILING R9, WALLS R5,
FLOORS R9

ATTIC VENTILATION:
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/300 OF THE UNFINISHED ATTIC AREA EXCEPT THAT THE AREA MAY BE 1/200 PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED. AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA SHALL BE PROVIDED BY EAVE OR CORNER VENTS. GROSS ATTIC AREA TO BE VENTILATED 114 SQ.FT.



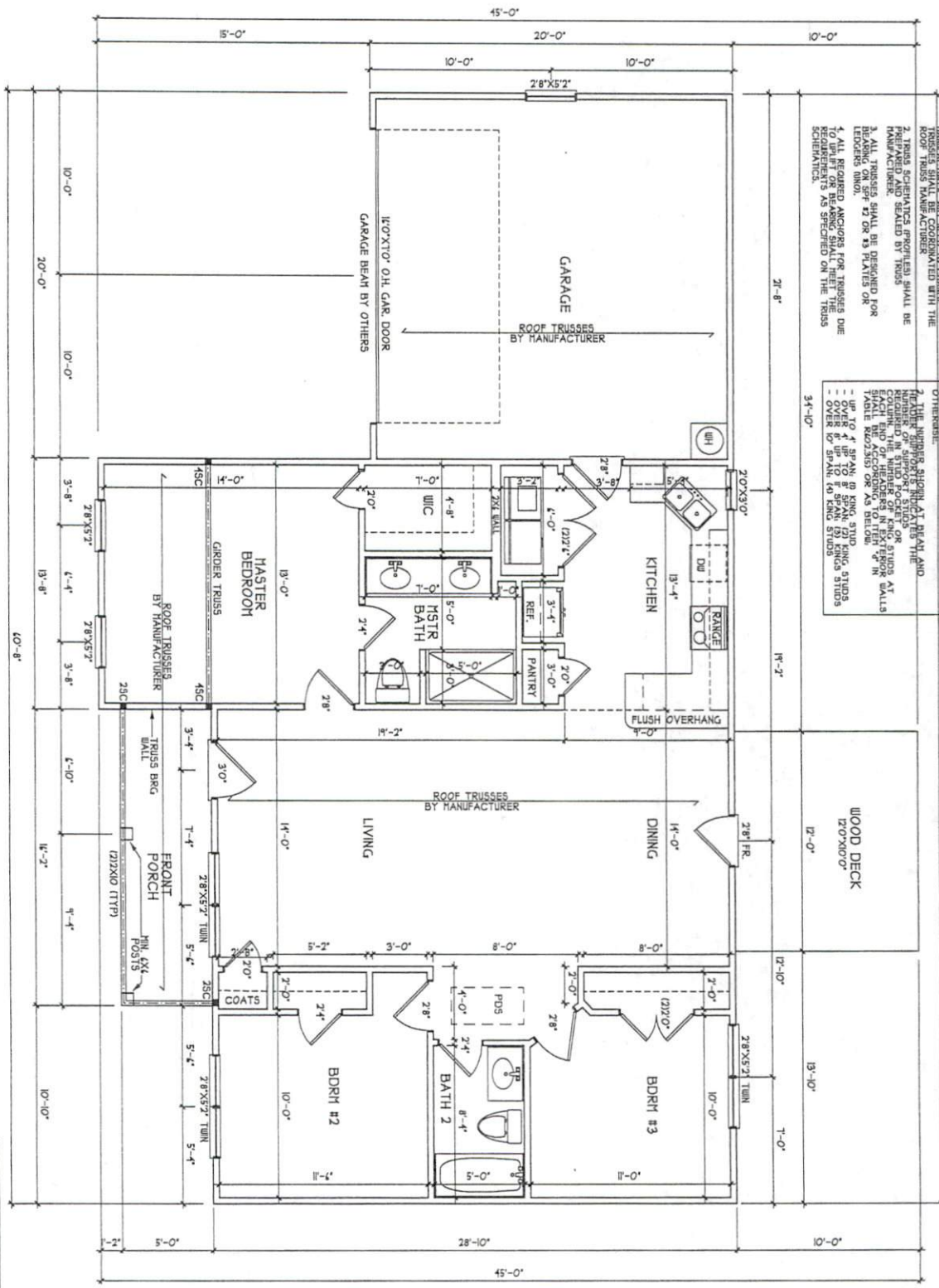
LEFT ELEVATION
SCALE 1/8" = 1'-0"



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

FILE: 010120.2	DATE: 01/11/2020	DESIGNED BY: HEATHER or JOHNATHAN HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403	SQUARE FOOTAGE: FIRST FLOOR = 1257 FRONT PORCH = 80 WOOD DECK = 120 GARAGE = 400	HEATED FOOTAGE: #1257	THE WALLER II GARAGE LEFT JRT MANG. PROP.





TRUSS SYSTEM REQUIREMENTS
 NC DDBB MCRCK, Ltd. 5-20-19H
 1. TRUSS SYSTEM LAYOUT'S PLACEMENT PLANS SHALL BE DESIGNED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS PROVIDED BY THE ROOF TRUSS MANUFACTURER AND SUBMITTED WITH THE ROOF TRUSS MANUFACTURER.
 2. TRUSS SCHEMATICS PROVIDED SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
 3. ALL TRUSSES SHALL BE DESIGNED FOR LEADING WINDS OF 120 OR 130 PLASIES ON THE ROOF TRUSS MANUFACTURER.
 4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE SCHEMATICS AS SPECIFIED ON THE TRUSS SCHEMATICS.

HEADER/BEAM & COLUMN NOTES
 1. ALL EXTERIOR AND LOAD BEARING HEADERS AND COLUMNS SHALL BE 12" X 10" OR 12" X 12" SUD. UNLESS NOTED OTHERWISE.
 2. THE NUMBER SHOULD AT LEAST AND THE NUMBER OF STUDS SHOULD BE INDICATED IN STUDS FOR EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE 2X8 OR 2X10. THE NUMBER OF STUDS SHOULD BE INDICATED IN STUDS FOR EACH END OF BEAMS IN EXTERIOR WALLS SHALL BE 2X8 OR 2X10. THE NUMBER OF STUDS SHOULD BE INDICATED IN STUDS FOR EACH END OF BEAMS IN EXTERIOR WALLS SHALL BE 2X8 OR 2X10.

REFER TO BASIC DETAIL SHEET FOR ALL DETAILS AND STRUCTURAL NOTES

FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

THE WALLER II GARAGE LEFT JRT MANG. PROP.	HEATED FOOTAGE: #1257	SQUARE FOOTAGE: FIRST FLOOR = 1257 FRONT PORCH = 80 WOOD DECK = 120 GARAGE = 400	DESIGNED BY: HEATHER or JOHNATHAN HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403		ANY PORTION OF THE INFORMATION CONTAINED HEREIN IS UNLESS OTHERWISE SPECIFIED, THE PROPERTY OF H SQUARED HOME DESIGN, INC. NO PART OF THIS DOCUMENT IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF H SQUARED HOME DESIGN, INC.
	DATE: 1/11/2020	THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE BOARD OF EXAMINERS FOR ARCHITECTS, ENGINEERS AND SURVEYORS.	THIS PLAN IS TO ONLY BE BUILT BY THE ABOVE CITED BUILDER. NOT FOR REUSE IN OTHER BUILDINGS UNLESS APPROVED BY H SQUARED.		

FILE: 070120.2

STRUCTURAL NOTES

1. ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER OR DESIGNER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER OR DESIGNER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.

DESIGN LOADS (R101.4)	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (LL)
ROOMS OTHER THAN SLEEPING ROOMS	40	10	L/360
SLEEPING ROOMS	30	10	L/360
ATTIC WITH PERMANENT STAIR	40	10	L/360
ATTIC WITH OUT PERMANENT STAIR	20	10	L/360
ATTIC WITH OUT STORAGE	10	10	L/240
STAIRS	40	10	L/360
EXTERIOR BALCONIES	40	10	L/360
DECKS	40	10	L/360
GUARDRAILS AND HANDRAILS	200	10	---
PASSENGER VEHICLE GARAGES	50	10	L/340
FIRE ESCAPES	40	10	L/340
SNOW	20	---	---
WIND LOAD (BASED ON 15/100 MPH WIND VELOCITY 1 EXPOSURE B)	---	---	---

2. WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R102.3.3. THE AMOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE R102.3.3.1. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION R102.3.3.4. LATERAL BRACING SHALL BE SATISFIED PER METHOD 3 BY CONTINUOUSLY SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION R102.3.3. NOTE THAT ANY SPECIFIC BRACED WALL DETAILS SHALL BE INSTALLED AS SPECIFIED.

3. CONCRETE SHALL BE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS OTHERWISE NOTED. AIR ENTRAINMENT PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ALL STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXT. END OF THE PUMP.

4. ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.

5. ALL FRAMING LUMBER SHALL BE SYP #2 (FB) = 875 PSI UNLESS NOTED OTHERWISE (INO). ALL TREATED LUMBER SHALL BE SYP #2 (FB)-15 PSI. PLATE MATERIAL MAY BE SYP #3 OR SYP #3 (IF DUMP) = 425 PSI - 10D.

6. ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2x4 STUD COLUMN FOR 4'-0" MAX. BEAM SPAN (INO), (2) 2x4 STUDS FOR BEAM SPAN GREATER THAN 4'-0" (INO).

7. L.V.L. SHALL BE LAMINATED VENEER LUMBER; FB-2100 PSI, Fv-285 PSI, E-1,540,000 PSI. P.A.L. SHALL BE PARALLEL STRAND LUMBER; FB-2400 PSI, Fv-240 PSI, E-2,040,000 PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER; FB-2250 PSI, Fv-100 PSI, E-1,550,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

8. ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH ANY SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH DESIGNER OR ENGINEER.

9. ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS 1/2" DIAMETER x 4" LONG. LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C.. ALL STEEL TUBING SHALL BE ASTM A500.

10. REBAR SHALL BE DEFORMED STEEL, ASTM#6, GRADE 60.

11. FITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) BOLTS OF 1/2" DIAMETER BOLTS (ASTH AS01) WITH WASHERS PLACED UNDER THE THEADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX) AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 4" FROM EACH END.

12. BRICK LINTELS SHALL BE 3 1/2"x8 1/2"x4 1/4" STEEL ANGLE FOR UP TO 4'-0" SPAN AND 4"x4 1/2"x4" STEEL ANGLE WITH 4" LEG VERTICAL FOR SPANS UP TO 4'-0" (INO).

13. THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF.

14. THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION SHALL BE AS FOLLOWS:

ROOF:	45.4 PSF - 2/12 PITCH OR LESS
	34.8 PSF - 2/12 TO 1/12 PITCH
	21 PSF - 1/12 TO 1/18 PITCH

WALLS:
241 PSF - WALLS

HEADER/BEAM & COLUMN NOTES

1. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.

2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R102.3(5) OR AS BELOW:

- UP TO 4' SPAN; (1) KING STUD
- OVER 4' UP TO 8' SPAN; (2) KING STUDS
- OVER 8' UP TO 12' SPAN; (3) KING STUDS
- OVER 12' SPAN; (4) KING STUDS

FOUNDATION STRUCTURAL NOTES:

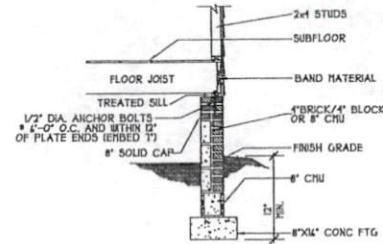
1C (2018 NCRC) 104 15-100 MPH

- 1. (3) 2x10 SYP #2 OR SYP#2 GRDR, TYPICAL UNO.
- 2. CONCRETE BLOCK PIER SIZE SHALL BE: SIZE: HOLLOW MASONRY SOLID MASONRY
8 x 8 UP TO 32" HIGH UP TO 9'-0" HIGH
12 x 8 UP TO 48" HIGH UP TO 9'-0" HIGH
16 x 8 UP TO 64" HIGH UP TO 12'-0" HIGH
24 x 24 UP TO 12" HIGH UP TO 12'-0" HIGH
WITH 30" x 30" x 10' CONCRETE FOOTING, UNO.
- 3. WALL FOOTING AS FOLLOWS:
DEPTH: 8" - UP TO 2-1/2 STORY
10" - 3 STORY
WIDTH: SIDING (OR EQUAL)
- 12" - UP TO 2-1/2 STORY
- 20" - 3 STORY
BRICK VENEER
- 12" - 1 STORY
- 20" - 2 STORY
- 24" - 3 STORY

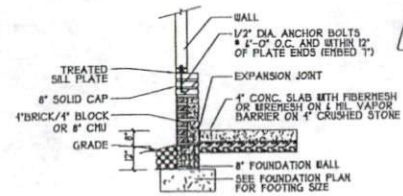
FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R104.1 (1 THRU 4) NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF HARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.

- 4. (1) 2x10 SYP#2 OR SYP#2 GRDR.
- 5. (2) 1 1/2"x1.25 LVL OR LSL GRDR
- 6. (3) 1 1/2"x1.25 LVL OR LSL GRDR
- 7. "M" DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO END, TYPICAL.

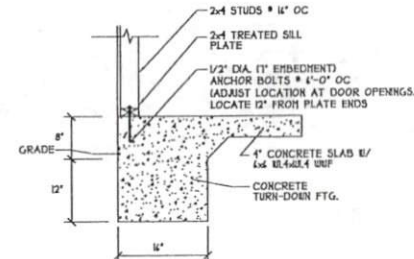
8. ABBREVIATIONS:
"S" = SINGLE JOIST
"D" = DOUBLE JOIST
"T" = TRIPLE JOIST



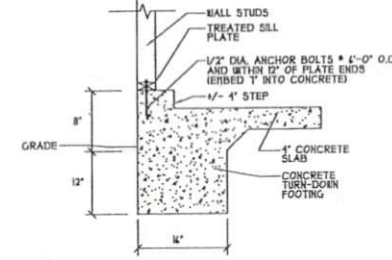
(A) CRAWL SECTION
NTS



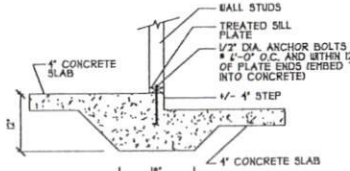
(B) GARAGE SLAB
NTS



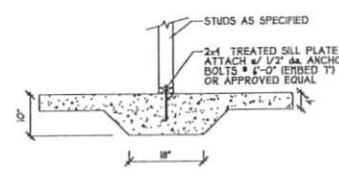
(C) TURN DOWN SLAB FOOTING
NTS



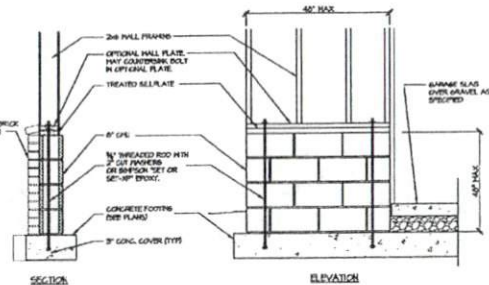
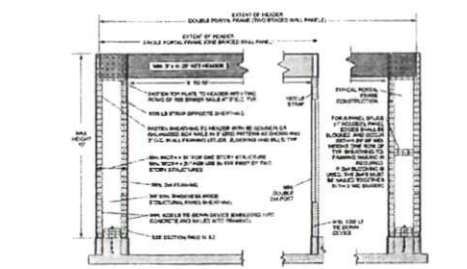
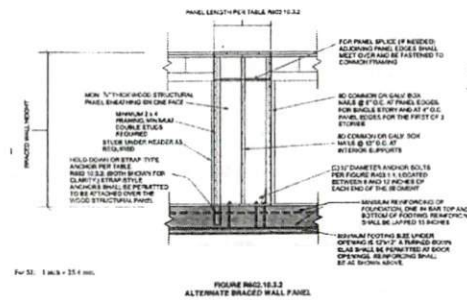
(D) TURN DOWN SLAB @ GARAGE
(SIDING) NTS



(E) THICKENED SLAB @ GARAGE
NTS



(F) TYPICAL THICKENED SLAB
NTS



GARAGE 'WING WALL' REINFORCING
PER RC FIGURE R102.3(4.3)

BASIC BUILDING
DETAIL SHEET

#PLEASE NOTE THAT NOT
ALL DETAILS APPLY TO
EVERY PLAN.

HEATHER HALL
185 HEATHERSTONE CT
BENSON NC 27504
(919) 207-1403

H SQUARED
HOME
DESIGN, INC.

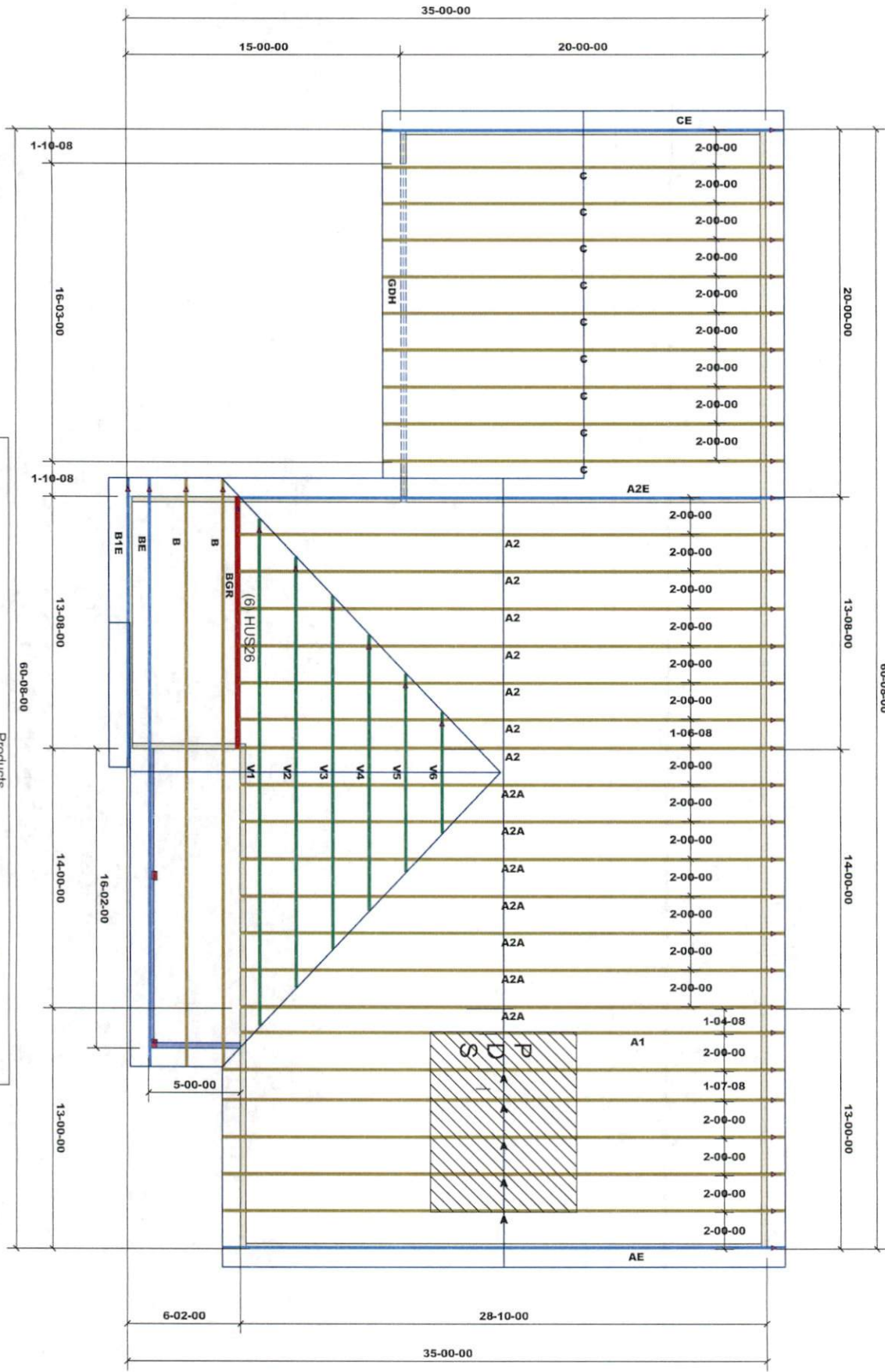


ANY COPY OF THESE DRAWINGS
IS UNCONTROLLED UNLESS
SPECIFICALLY NOTED
ON THE DRAWING.

DATE:

FILE:

THIS LAYOUT IS INTENDED FOR THE PURPOSE OF TRUSS LOCATION AND PLACEMENT ONLY. REFER TO THE BUILDING PLANS FOR ACTUAL BUILDING CONSTRUCTION.



PlotID	Length	Product	Piles	Net Qty	Fab Type
GDH	20-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2	MFD

GENERAL NOTES:

- DO NOT CUT OR MODIFY TRUSSES
- TRUSSES ARE SPACED 24" ON CENTER UNLESS OTHERWISE NOTED
- REFER TO THE INDIVIDUAL TRUSS DESIGN DRAWINGS FOR THE LOCATION OF LATERAL BRACING AND MULTI-PLY CONNECTION REQUIREMENTS.
- PER ANSI TPI 1-2002 THE TRUSS ENGINEER IS RESPONSIBLE FOR TRUSS TO TRUSS CONNECTIONS AND TRUSS PLY TO PLY CONNECTIONS. THIS TRUSS PLACEMENT PLAN RECOMMENDS TRUSS TO BEARING CONNECTIONS AND TRUSS TO BEAM CONNECTIONS WHICH SHALL BE REVIEWED BY THE BUILDING DESIGNER. IT IS THE RESPONSIBILITY OF THE BUILDING DESIGNER TO RESOLVE ALL ROOF FORCES ADEQUATELY TO THE FOUNDATION.

WIND SPEED: 130 mph
BOTTOM DEAD LOAD: 10.0 lb/ft ²
TOP DEAD LOAD: 10.0 lb/ft ²
TOP LIVE LOAD: 20.0 lb/ft ²

PROJECT:	JRT THE WALLER		
CUSTOMER:	2307-84 Fayetteville		
MODEL:	THE WALLER		
QUOTE #:	PRINT DATE:	DRAWN BY:	SCALE:
24557	11/17/2020	Rodney Evans	N.T.S

DENOTED TO QUALITY AND EXCELLENCE
 200 EMMETT ROAD 20334
 PHONE: 910-892-6400



Roof/Dropped Beams\GDH(i19) (Dropped Beam)

BC CALC® Member Report

Dry | 1 span | No cant.

August 5, 2020 15:26:20

Build 7493

Job name:

File name: 2000612A.mmdl

Address:

Description: Roof/Dropped Beams\GDH(i19)

City, State, Zip:

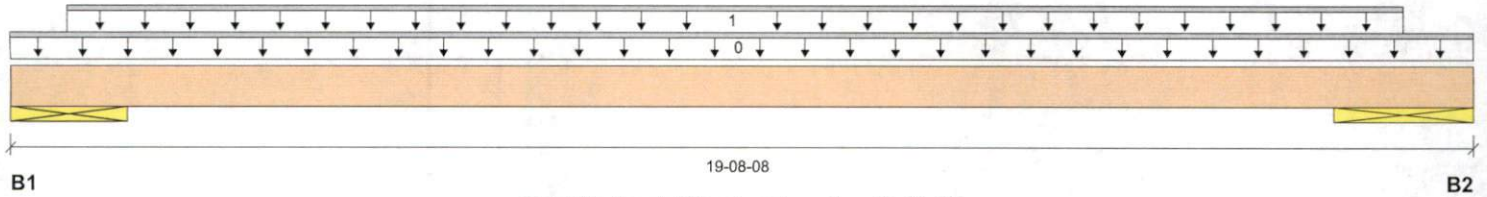
Specifier:

Customer:

Designer:

Code reports: ESR-1040

Company:



Total Horizontal Product Length = 19-08-08

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	Roof Live
B1, 19"		1987 / 0		613 / 1512	1982 / 0
B2, 22-1/2"		2007 / 0		615 / 1662	1994 / 0

Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	100%	90%	115%	160%	Roof Live	125%	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	19-08-08	Top		12					00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-09-04	18-09-04	Top		208			221		n/a

Controls Summary

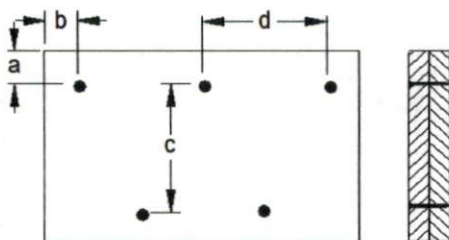
	Value	% Allowable	Duration	Case	Location
Pos. Moment	14743 ft-lbs	56.9%	125%	1	09-09-04
End Shear	3122 lbs	31.6%	125%	1	16-10-02
Total Load Deflection	L/273 (0.719")	87.8%	n/a	1	09-09-04
Live Load Deflection	L/546 (0.36")	65.9%	n/a	98	09-09-04
Max Defl.	0.719"	71.9%	n/a	1	09-09-04
Span / Depth	16.5				

Bearing Supports	Dim. (LxW)	Value	% Allow Support	% Allow Member	Material
B1	Wall/Plate 19" x 3-1/2"	3968 lbs	14.0%	8.0%	Spruce-Pine-Fir
B2	Wall/Plate 22-1/2" x 3-1/2"	4001 lbs	12.0%	6.8%	Spruce-Pine-Fir

Notes

- Design meets Code minimum (L/240) Total load deflection criteria.
- Design meets Code minimum (L/360) Live load deflection criteria.
- Design meets arbitrary (1") Maximum Total load deflection criteria.
- Design meets arbitrary (0.75") Maximum live load deflection criteria.
- Calculations assume unbraced length of Top: 01-10-08, Bottom: 01-10-08.
- BC CALC® analysis is based on IBC 2012.
- Wind loads determined from building geometry were used in selected product's verification.
- Design based on Dry Service Condition.

Connection Diagram: Full Length of Member



Roof\Dropped Beams\GDH(i19) (Dropped Beam)

Dry | 1 span | No cant.

August 5, 2020 15:26:20

BC CALC® Member Report

Build 7493

Job name:

File name: 2000612A.mmdl

Address:

Description: Roof\Dropped Beams\GDH(i19)

City, State, Zip:

Specifier:

Customer:

Designer:

Code reports: ESR-1040

Company:

Connection Diagram: Full Length of Member

a minimum = 2" c = 7-7/8"
b minimum = 3" d = 24"

Connectors are: 3-1/4 in. Pneumatic Gun Nails

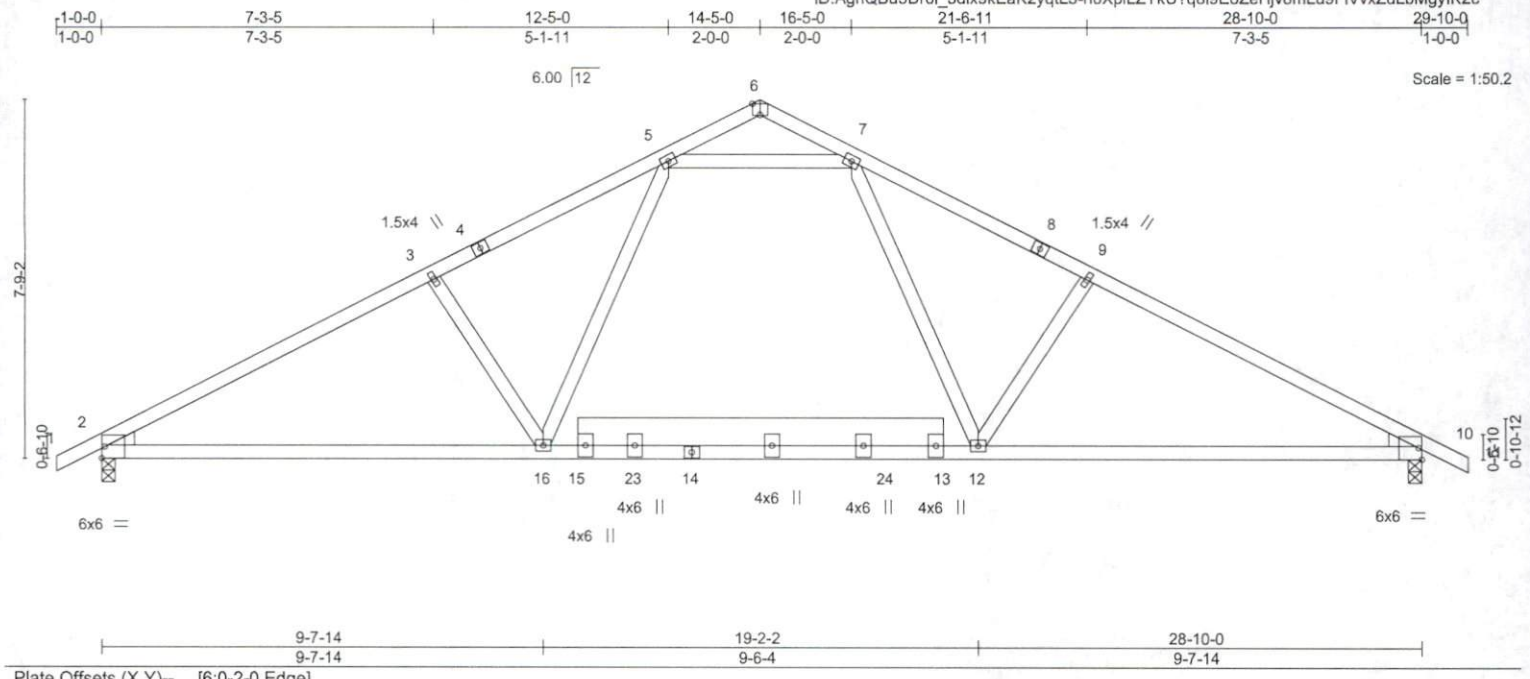
Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

Job 24557-24557A	Truss A	Truss Type ROOF TRUSS	Qty 5	Ply 1	JRT THE WALLER	I43653195
84 Components (Dunn), Dunn, NC - 28334,					Job Reference (optional)	

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:23 2020 Page 1
 ID:AghQBU5Dr6l_3dlx9kEaK2yqtL3-n0XpiLZYkU?q8l9EoZeHjv8mLu9FIVvxZdLbMgylK2c



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 0.62	Vert(LL)	-0.25 12-22	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.84	Vert(CT)	-0.40 12-22	>857	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 160 lb	FT = 20%

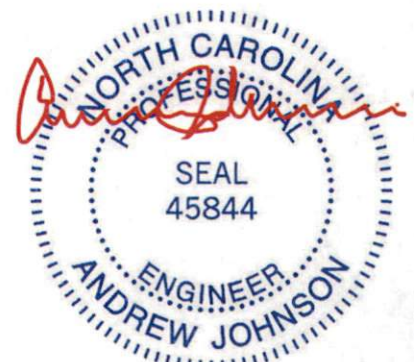
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
 13-15: 2x8 SP No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-5-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
 Max Horz 2=-129(LC 13)
 Max Uplift 2=-156(LC 12), 10=-156(LC 13)
 Max Grav 2=1213(LC 1), 10=1213(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1947/494, 3-5=-1720/496, 7-9=-1720/496, 9-10=-1947/494
 BOT CHORD 2-16=-323/1654, 12-16=-159/1261, 10-12=-325/1654
 WEBS 7-12=-96/587, 9-12=-420/247, 5-16=-96/587, 3-16=-420/247, 5-7=-1209/456

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 3) All plates are 3x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - 7) ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



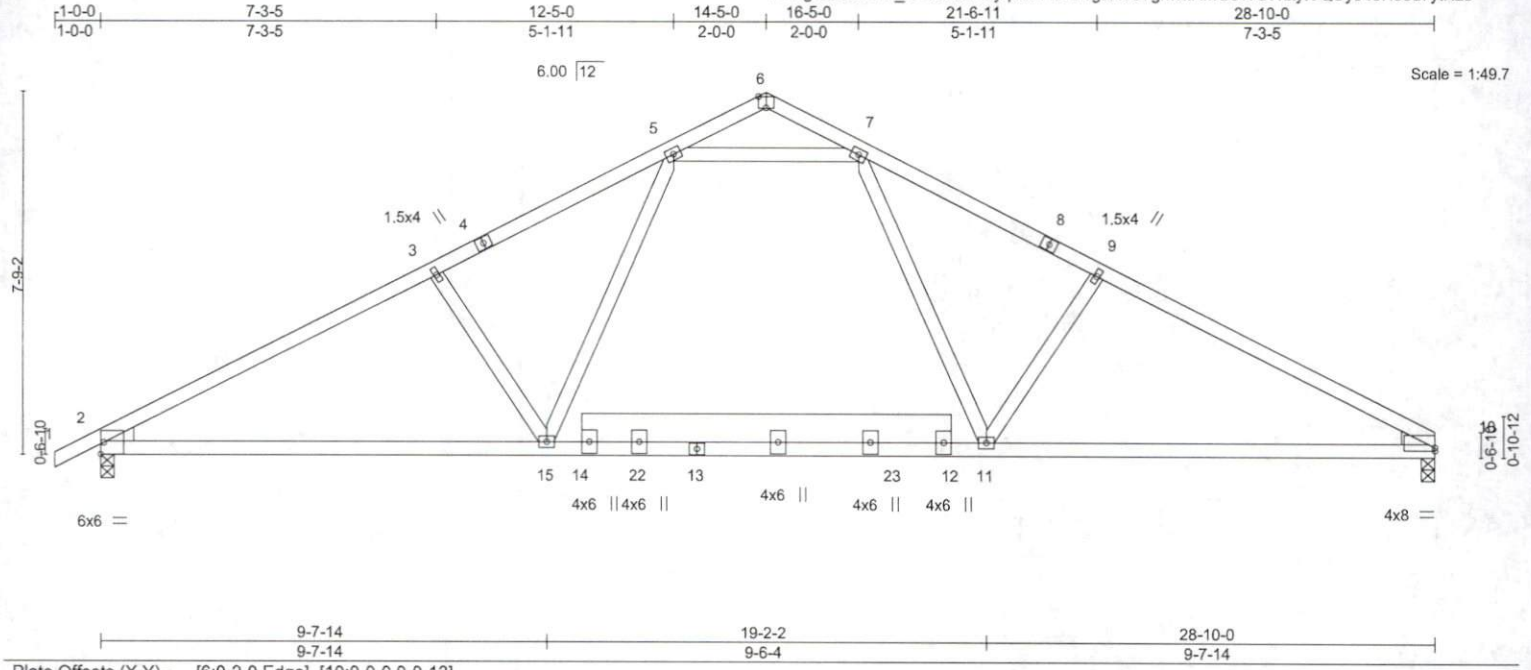
November 17, 2020

Job 24557-24557A	Truss A1	Truss Type ROOF TRUSS	Qty 1	Ply 1	JRT THE WALLER	I43653196
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:24 2020 Page 1

ID:AghQBUs5Dr6l_3dlx9kEaK2yqtL3-FD5BvgaAVo7gmvkRMG9WG7hxyIVQUy94oH58u7yIK2b



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 0.63	Vert(LL)	-0.25 11-21	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.85	Vert(CT)	-0.41 11-21	>841	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-MS						
								Weight: 158 lb	FT = 20%

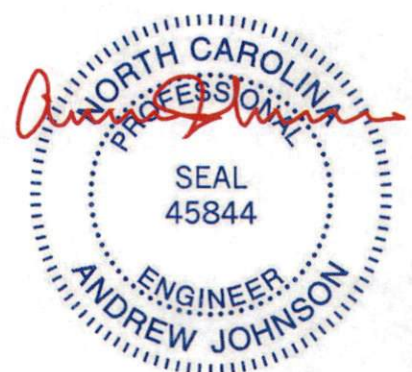
LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2 *Except*
12-14: 2x8 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=137(LC 16)
Max Uplift 2=-156(LC 12), 10=-135(LC 13)
Max Grav 2=1214(LC 1), 10=1152(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1949/496, 3-5=-1722/498, 7-9=-1727/500, 9-10=-1954/498
BOT CHORD 2-15=-346/1656, 11-15=-180/1264, 10-11=-348/1661
WEBS 7-11=-99/593, 9-11=-425/249, 5-15=-95/587, 3-15=-420/247, 5-7=-1210/457

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - All plates are 3x4 MT20 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 20.0psf 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.
 - One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
 - ATTIC SPACE SHOWN IS DESIGNED AS UNINHABITABLE.



November 17, 2020

Job 24557-24557A	Truss A2	Truss Type Common	Qty 7	Ply 1	JRT THE WALLER	I43653197
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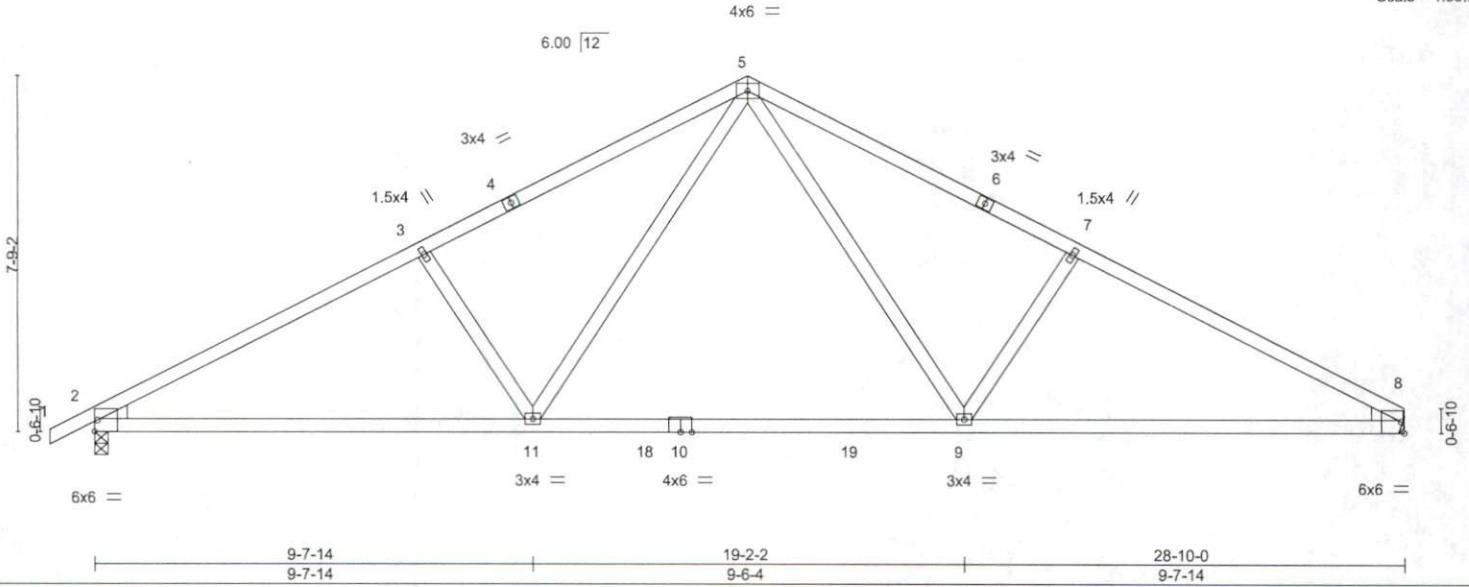
84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:25 2020 Page 1

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Scale = 1:50.6



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 0.74	Vert(LL)	-0.39 9-11	>880	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.96	Vert(CT)	-0.57 9-11	>606	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.07 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS					Weight: 133 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 8=Mechanical
 Max Horz 2=137(LC 16)
 Max Uplift 2=-156(LC 12), 8=-135(LC 13)
 Max Grav 2=1214(LC 1), 8=1152(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1970/504, 3-5=-1737/513, 5-7=-1742/515, 7-8=-1974/506
 BOT CHORD 2-11=-358/1679, 9-11=-130/1122, 8-9=-360/1684
 WEBS 5-9=-145/667, 7-9=-425/282, 5-11=-142/662, 3-11=-422/280

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=135.
- 7) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.



November 17, 2020

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 ANSITPH 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 24557-24557A	Truss A2E	Truss Type Common Supported Gable	Qty 1	Ply 1	JRT THE WALLER	I43653199
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MITek Industries, Inc. Tue Nov 17 09:12:28 2020 Page 1
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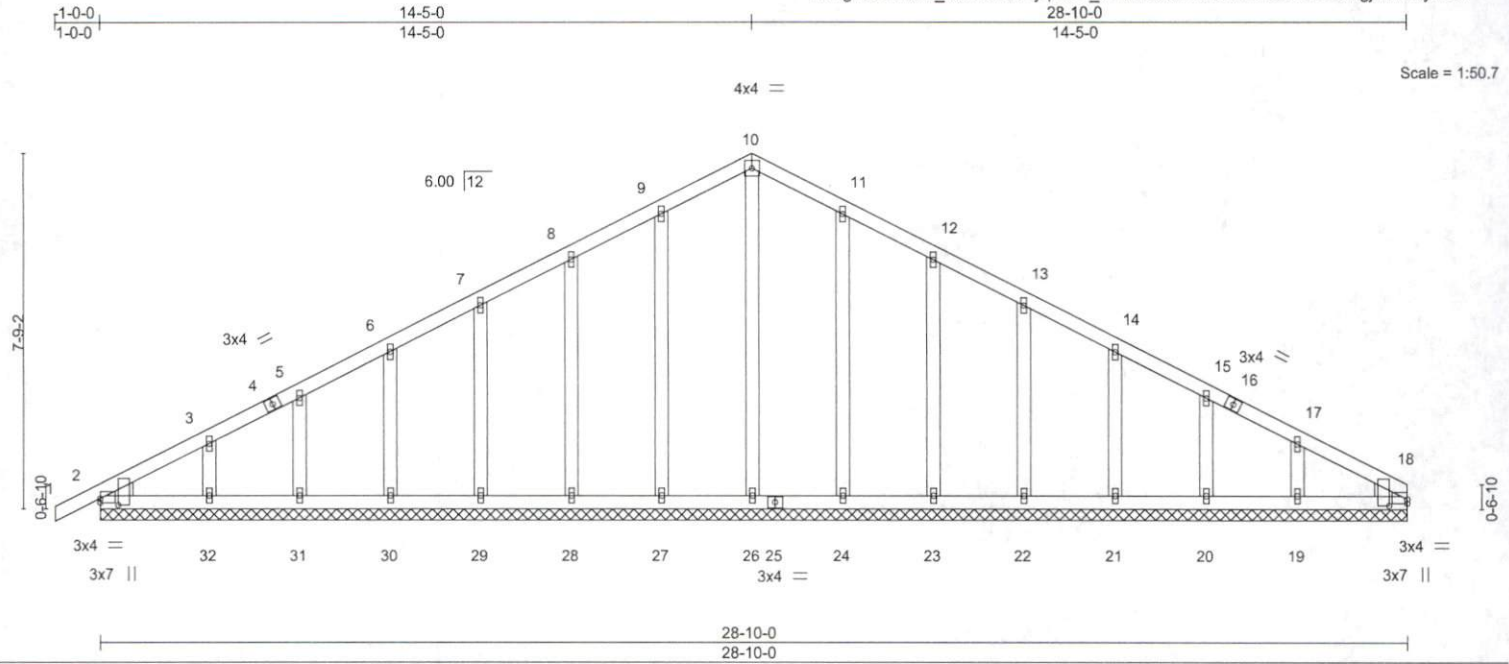


Plate Offsets (X,Y)--	[2:0-0-0,0-1-1], [2:0-1-11,0-4-13], [18:Edge,0-1-1], [18:0-1-11,0-4-13]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 1 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00 1 n/r 90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 171 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. All bearings 28-10-0.
 (lb) - Max Horz 2=133(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19
 Max Grav All reactions 250 lb or less at joint(s) 2, 26, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 19, 18

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=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 3) 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.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 20.0psf 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.



Job 24557-24557A	Truss AE	Truss Type Common Supported Gable	Qty 1	Ply 1	JRT THE WALLER	143653200
84 Components (Dunn), Dunn, NC - 28334,					Job Reference (optional)	

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:30 2020 Page 1
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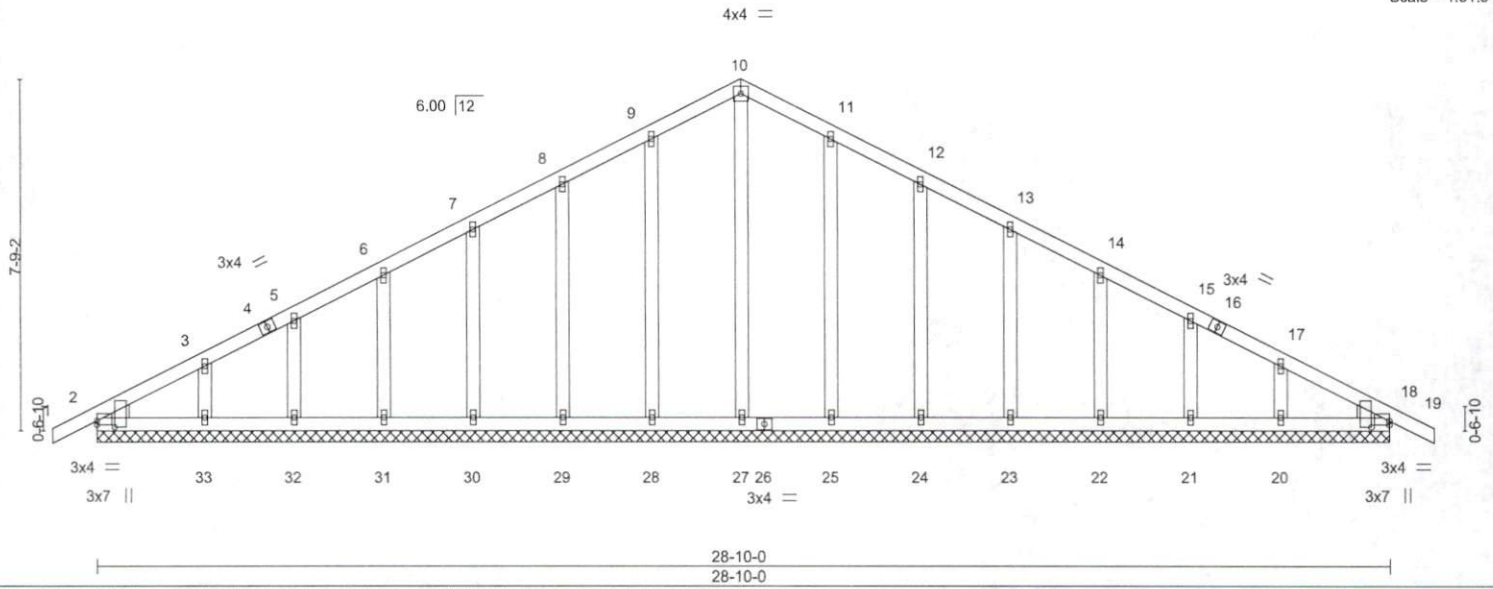


Plate Offsets (X,Y) - [2:0-0-0,0-1-1], [2:0-1-11,0-4-13], [18:0-0-0,0-1-1], [18:0-1-11,0-4-13]

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 0.07	Vert(LL)	-0.00	18	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	18	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	18	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 173 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

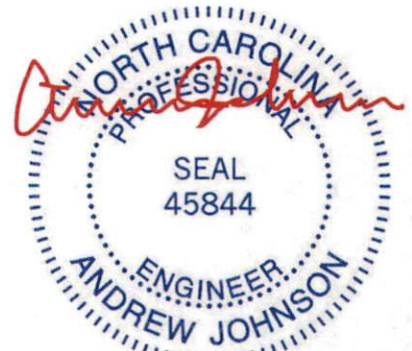
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 28-10-0.
 (lb) - Max Horz 2=129(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20
 Max Grav All reactions 250 lb or less at joint(s) 2, 27, 28, 29, 30, 31, 32, 33, 25, 24, 23, 22, 21, 20, 18

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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
- 3) 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf 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.
- 9) n/a
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18.



November 17, 2020

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

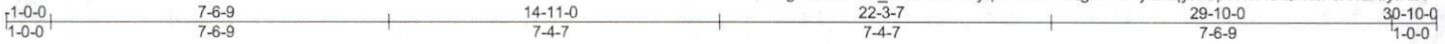


818 Soundside Road
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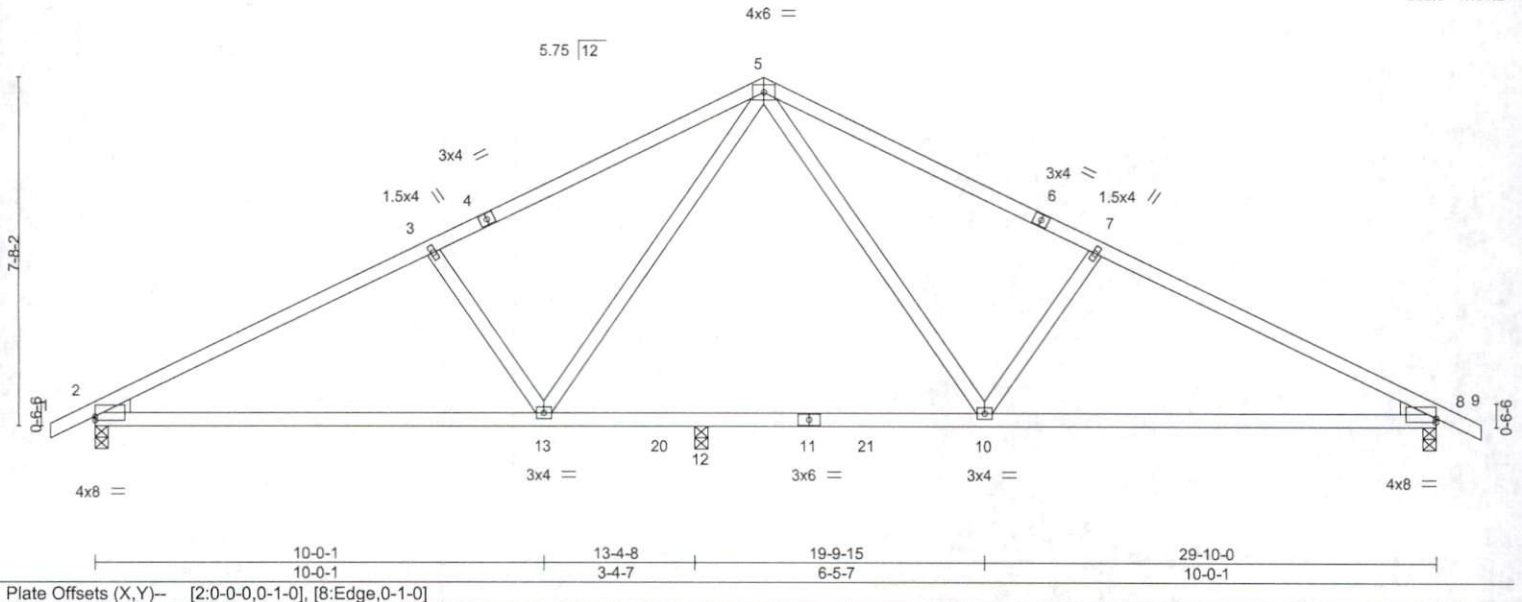
Job 24557-24557A	Truss B	Truss Type Common	Qty 2	Ply 1	JRT THE WALLER	I43653201
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84 Components (Dunn), Dunn, NC - 28334,

8,420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:32 2020 Page 1
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Scale = 1:51.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.22 13-16 >730 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.49 13-16 >332 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 138 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8, 12=0-3-8
Max Horz 2=-127(LC 13)
Max Uplift 2=-169(LC 12), 8=-169(LC 13)
Max Grav 2=1181(LC 1), 8=1193(LC 1), 12=252(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1929/535, 3-5=-1678/532, 5-7=-1711/532, 7-8=-1962/534
BOT CHORD 2-13=-367/1662, 12-13=-131/1110, 10-12=-131/1110, 8-10=-371/1691
WEBS 5-10=-143/643, 7-10=-452/287, 5-13=-143/599, 3-13=-455/287

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=169, 8=169.



November 17, 2020

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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 ANSITPII Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 24557-24557A	Truss B1E	Truss Type Common Supported Gable	Qty 1	Ply 1	JRT THE WALLER	143653202
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:33 2020 Page 1
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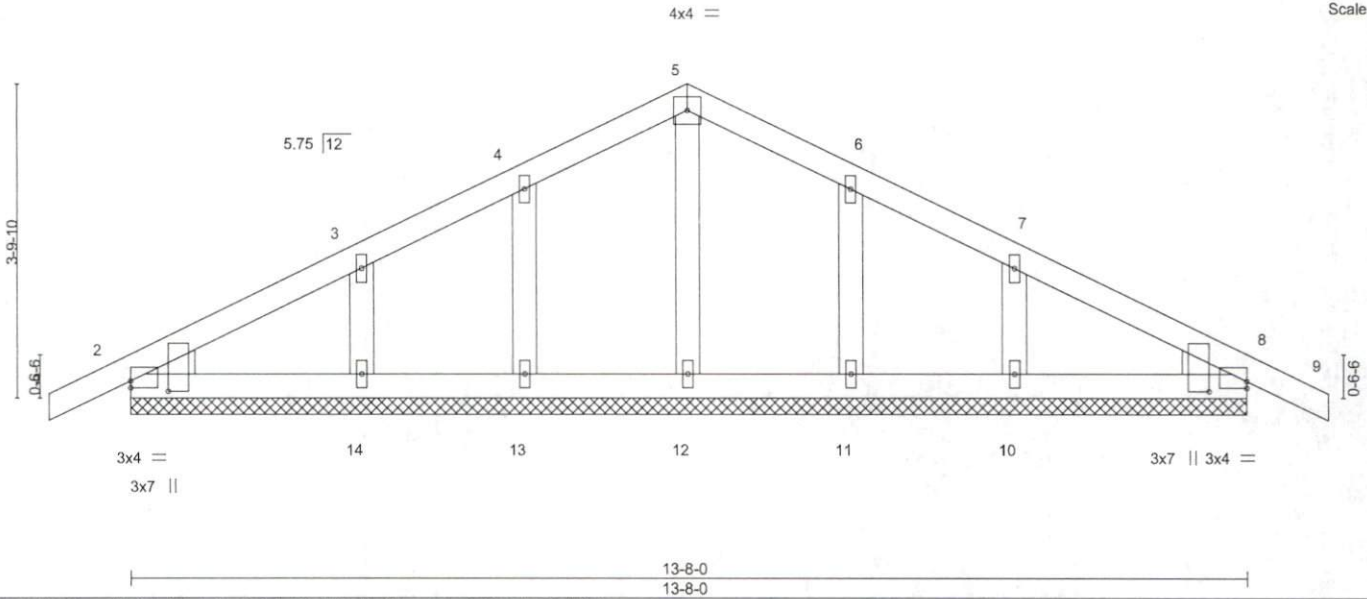


Plate Offsets (X,Y)-- [2:0-0-0,0-1-0], [2:0-1-7,0-5-8], [8:Edge,0-1-0], [8:0-1-7,0-5-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) 0.00	8	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) 0.00	9	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) 0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 64 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

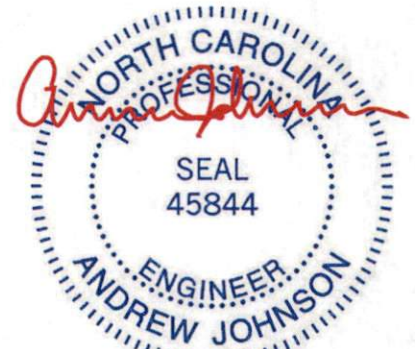
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-8-0.
 (lb) - Max Horz 2--63(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
- 3) 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf 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.
- 9) n/a
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 8.



November 17, 2020

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 24557-24557A	Truss BE	Truss Type GABLE	Qty 1	Ply 1	JRT THE WALLER	I43653203
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84 Components (Dunn), Dunn, NC - 28334,

8,420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:34 2020 Page 1

ID:AghQB5Dr6l_3dlx9kEaK2yqtL3-y8iz75hS9sOGzSVMYnLsgE5dXKuuqWoY5rWgFYyIK2R



Scale = 1:51.2

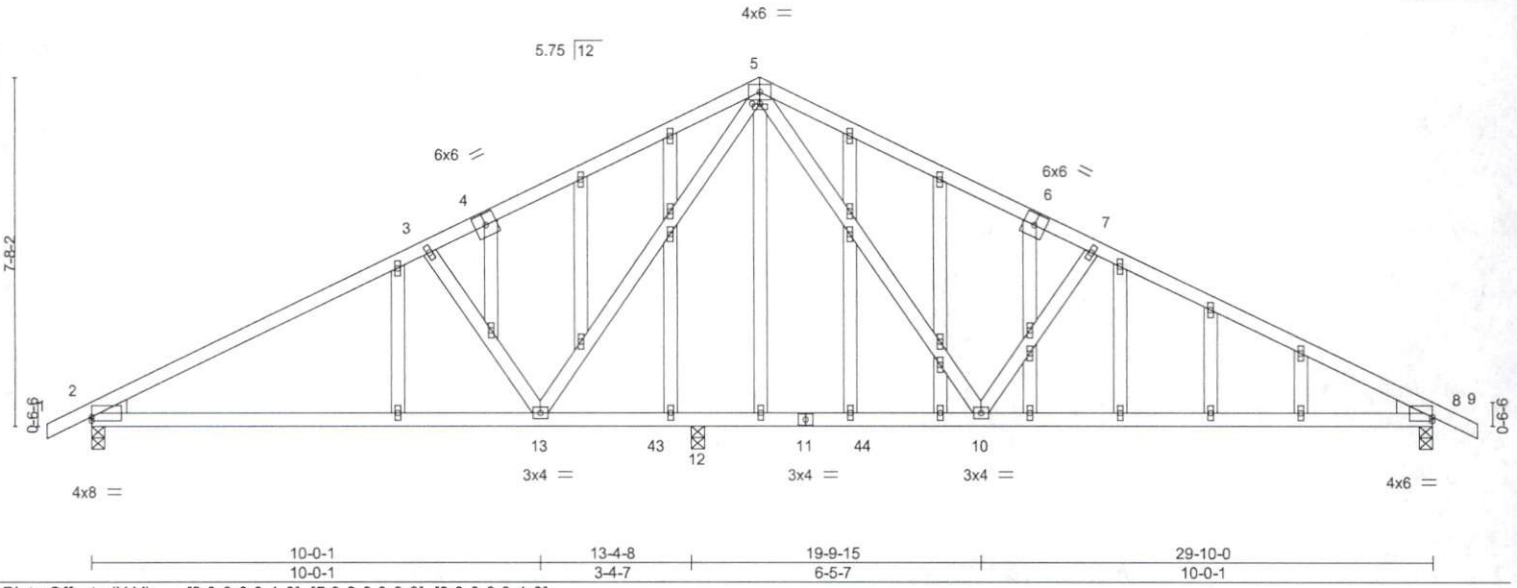


Plate Offsets (X,Y)-	[2:0-0-0,0-1-0], [5:0-2-0,0-0-0], [8:0-0-0,0-1-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.22 13-39 >730 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.49 13-39 >332 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 204 lb	FT = 20%

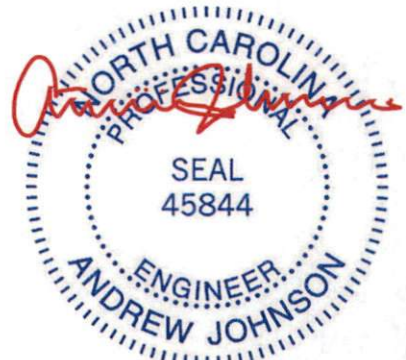
LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3
 WEDGE
 Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8, 12=0-3-8
 Max Horz 2=-127(LC 13)
 Max Uplift 2=-169(LC 12), 8=-169(LC 13)
 Max Grav 2=1181(LC 1), 8=1193(LC 1), 12=252(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1929/535, 3-5=-1678/532, 5-7=-1711/532, 7-8=-1962/534
 BOT CHORD 2-13=-367/1662, 12-13=-131/1110, 10-12=-131/1110, 8-10=-371/1691
 WEBS 5-10=-143/643, 7-10=-452/287, 5-13=-143/599, 3-13=-455/287

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 3) 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.
 - 4) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf 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.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.



November 17, 2020

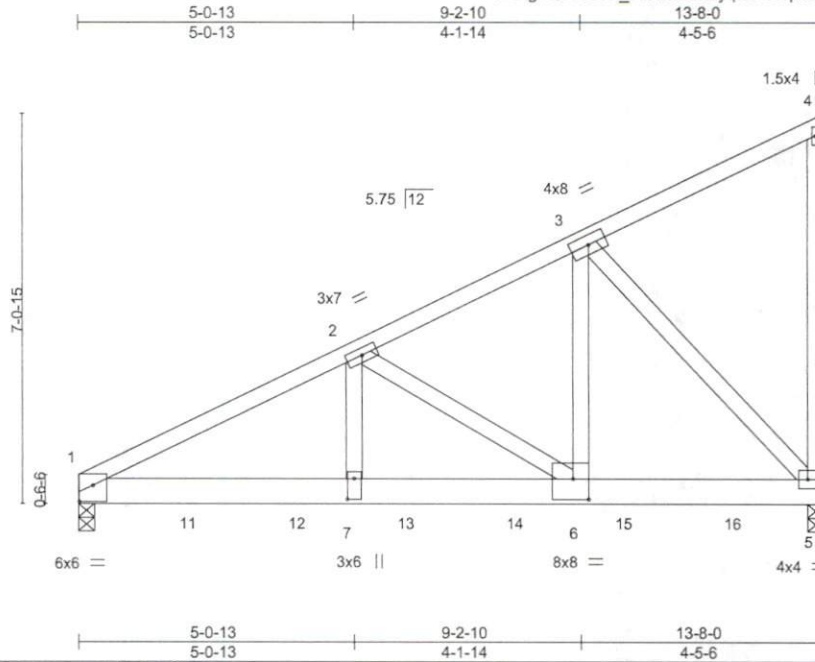
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss BGR	Truss Type Monopitch Girder	Qty 1	Ply 2	JRT THE WALLER	I43653204
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:36 2020 Page 1
ID:AghQBUsDr6j_3dlx9kEaK2yqtL3-vWpkQnjigTe_Clfk3oNKIFB208h8IGPrY97nJQyIK2P



Scale = 1:42.1

Plate Offsets (X,Y)-- [1:0-3-0,0-3-9], [6:0-3-8,0-4-8], [7:0-4-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.06 7-10 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.90	Vert(CT) -0.12 7-10 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 178 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x6 SP DSS
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-6-15 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-3-8, 5=0-3-8
 Max Horz 1=250(LC 12)
 Max Uplift 1=-457(LC 12), 5=-622(LC 12)
 Max Grav 1=3786(LC 1), 5=4090(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6310/799, 2-3=-3400/405
 BOT CHORD 1-7=-947/5655, 6-7=-947/5655, 5-6=-497/3021
 WEBS 2-7=-299/2620, 2-6=-3096/528, 3-6=-554/4345, 3-5=-4374/717

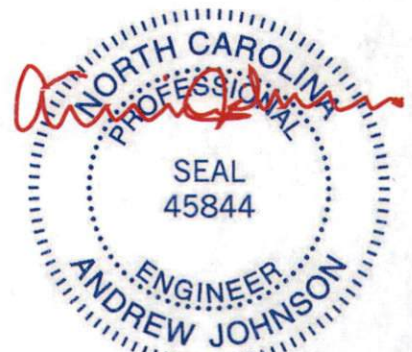
NOTES-

- 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 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.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1132 lb down and 155 lb up at 2-0-12, 1132 lb down and 155 lb up at 4-0-12, 1132 lb down and 155 lb up at 6-0-12, 1132 lb down and 155 lb up at 8-0-12, and 1132 lb down and 155 lb up at 10-0-12, and 1132 lb down and 155 lb up at 12-0-12 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

Continued on page 2



November 17, 2020

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818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss BGR	Truss Type Monopitch Girder	Qty 1	Ply 2	JRT THE WALLER Job Reference (optional)	143653204
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:36 2020 Page 2
 ID:AghQB5Dr6l_3dlx9kEaK2yqtL3-vWpkQnjigTe_Clfk3oNKIfB208h8IGPrY9?nJQyIK2P

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 11=-1132(B) 12=-1132(B) 13=-1132(B) 14=-1132(B) 15=-1132(B) 16=-1132(B)

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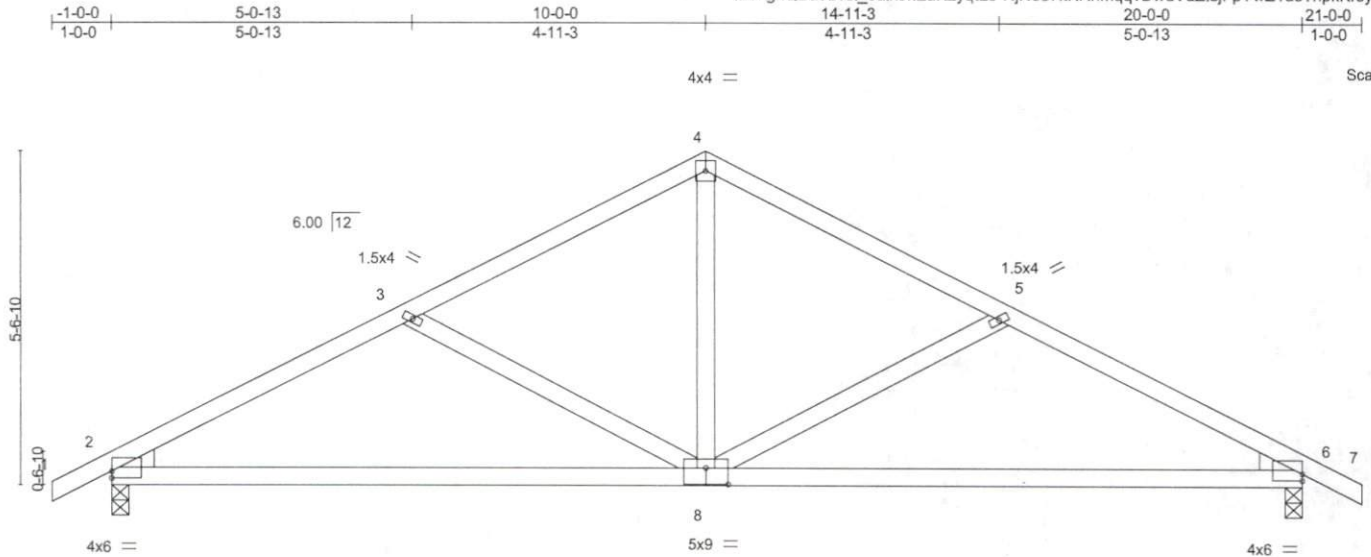


818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss C	Truss Type Common	Qty 9	Ply 1	JRT THE WALLER	I43653205
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:37 2020 Page 1
ID:AghQBu5Dr6l_3dlx9kEaK2yqtL3-NjN6e7kKRnmqqvDwdVuZlsjFpYwz1u8?npkKrsyIK2O



Scale = 1:38.6

Plate Offsets (X,Y) -	[2:0-0,0-0-1-5], [6:0-0,0-0-1-5], [8:0-4-8,0-3-4]
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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 0.30	Vert(LL)	-0.15 8-14	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.90	Vert(CT)	-0.31 8-14	>770	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.23	Horz(CT)	0.03 6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MS						

Weight: 92 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-0-2 oc purlins.
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=92(LC 16)
 Max Uplift 2=-115(LC 12), 6=-115(LC 13)
 Max Grav 2=860(LC 1), 6=860(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1294/358, 3-4=-969/260, 4-5=-969/260, 5-6=-1294/358
 BOT CHORD 2-8=-229/1101, 6-8=-232/1101
 WEBS 4-8=-69/561, 5-8=-358/216, 3-8=-358/216

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf 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.
 - 5) One MTS12 Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.



November 17, 2020

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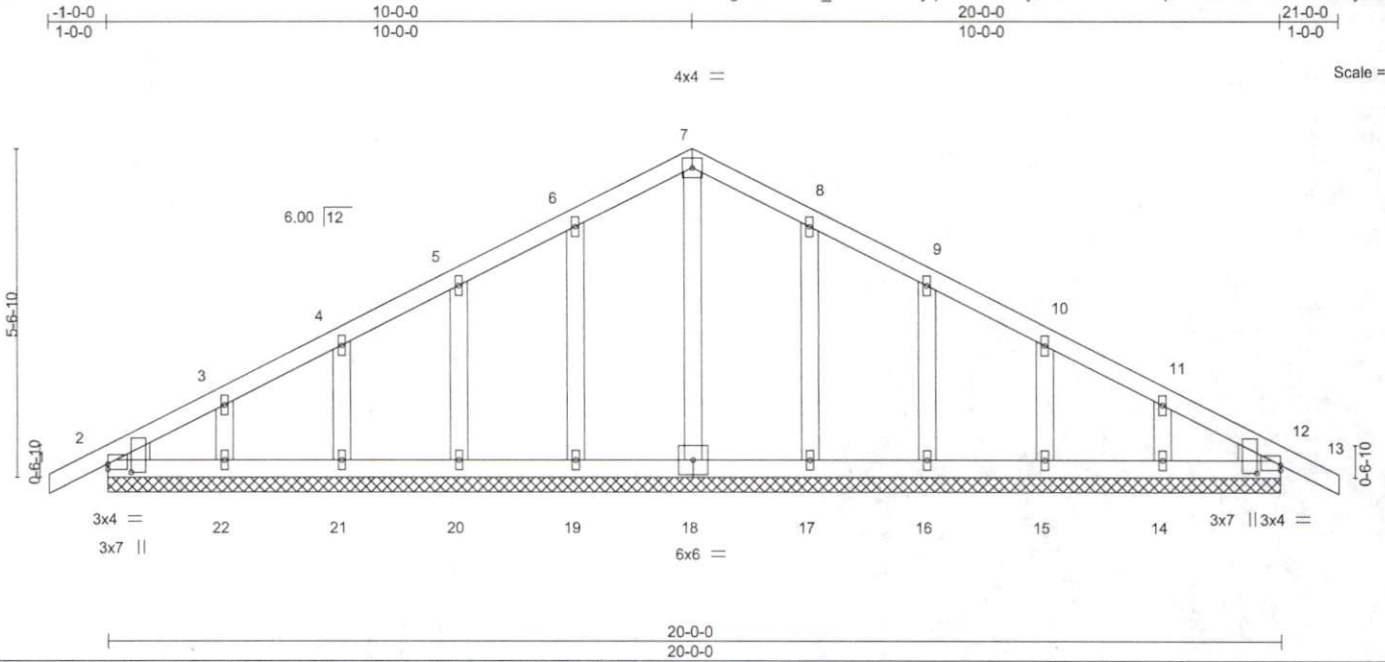
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss CE	Truss Type Common Supported Gable	Qty 1	Ply 1	JRT THE WALLER	I43653206
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:38 2020 Page 1

ID:AghQB5Dr6I_3dlx9kEaK2yqTL3-rvxUrTkyC5uhR3o7BDPq4GTGxTQmO280TUuOJyIK2N



Scale = 1:39.2

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

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 0.07	Vert(LL) -0.00	13	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.03	Vert(CT) -0.00	13	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.06	Horz(CT) 0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 106 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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 20-0-0.
(lb) - Max Horz 2=92(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
- 3) 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.
- 4) All plates are 1.5x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2'-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf 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.
- 9) n/a
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.



November 17, 2020

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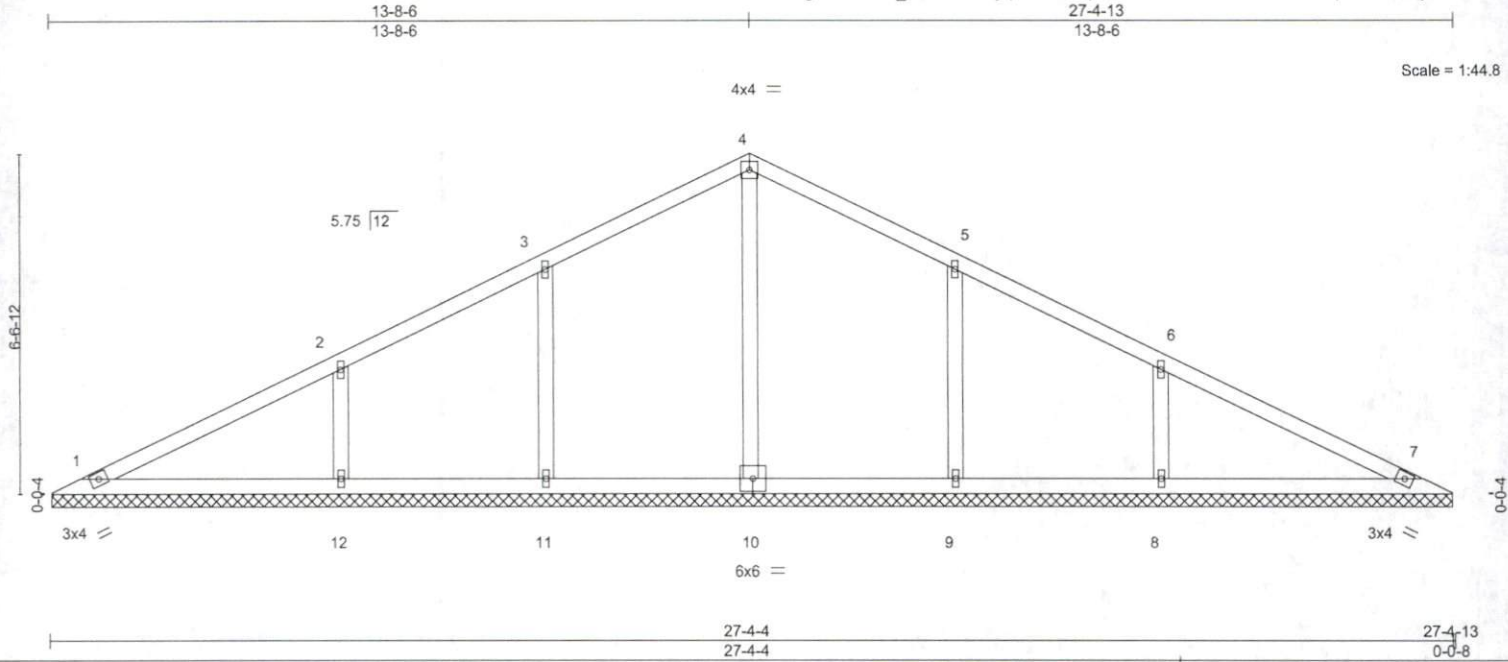
ENGINEERING BY
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818 Soundside Road
Edenton, NC 27932

Job 24557-24557A	Truss V1	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653207
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:39 2020 Page 1
ID:AghQB5Dr6l_3dlx9kEaK2yqtL3-J5Vs3plbzO0Y3DNJkww1NHoaHLM?VpIHF7DRwlyIK2M



Scale = 1:44.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(CT)	0.00	7	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 111 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

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 27-3-12.
 (lb) - Max Horz 1=-104(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 9 except 12=-124(LC 12), 8=-123(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=402(LC 22), 11=325(LC 25), 12=424(LC 1), 9=321(LC 26), 8=425(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-12=-308/203, 6-8=-308/203

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 3) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf 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.



November 17, 2020

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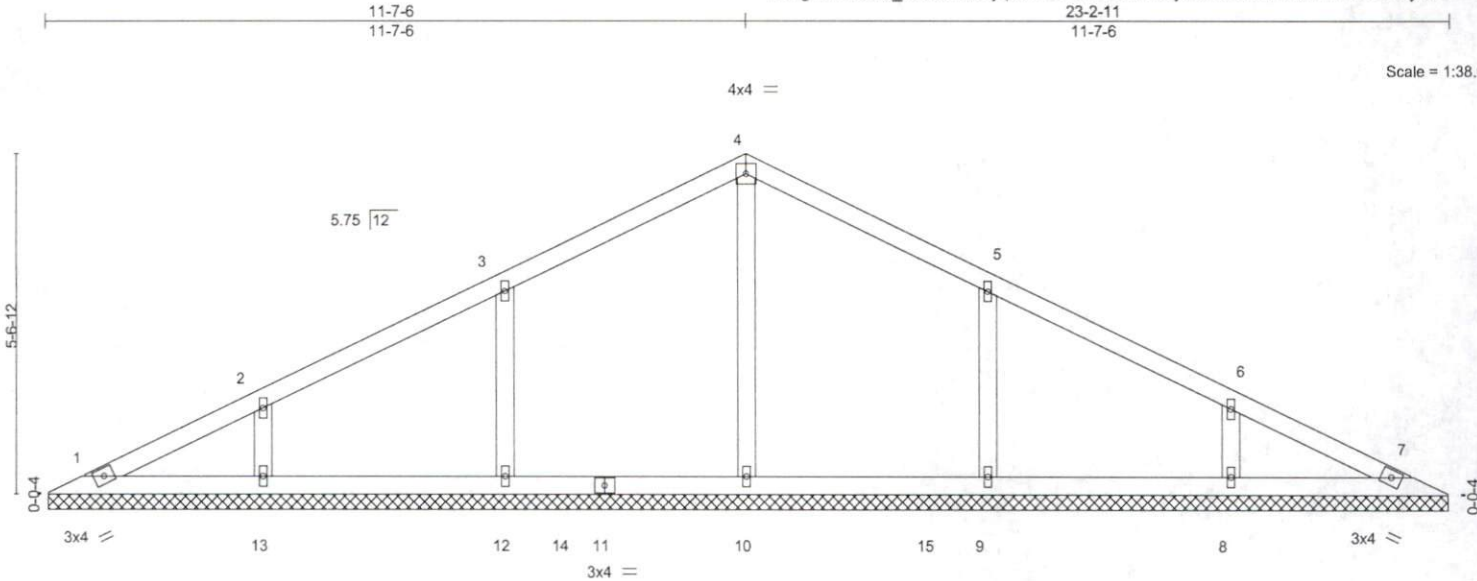
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818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss V2	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653208
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:40 2020 Page 1
ID:AghQBUs5Dr6l_3dlx9kEaK2yqtL3-nl3FG9mDki8PhNyVldRGwVLMi7dEHnRTnz?SByIK2L



Scale = 1:38.0

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 0.20	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S							
								Weight: 91 lb	FT = 20%	

LUMBER-
 TOP CHORD 2x4 SP No.2 or 2x4 SPF No.2
 BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
 OTHERS 2x4 SP No.3

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 23-1-10.
 (lb) - Max Horz 1=88(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 8 except 12=-106(LC 12), 9=-106(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=372(LC 19), 12=344(LC 23), 13=304(LC 1),
 9=344(LC 24), 8=304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-12=-264/174, 5-9=-264/174

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - 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 20.0psf 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.



November 17, 2020

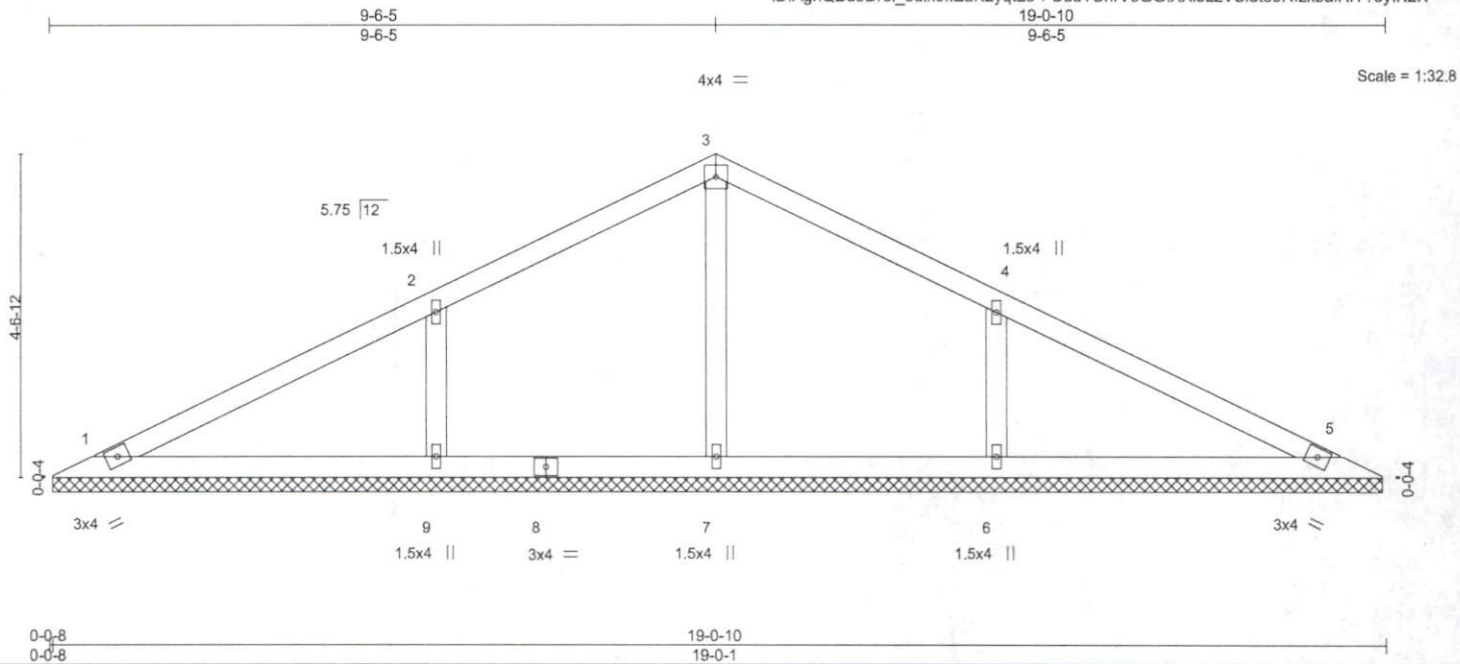
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss V3	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	I43653209
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:41 2020 Page 1
ID:AghQBu5Dr6I_3dlx9kEak2yqtL3-FUddTUnrV0GGIXisLzVSiuto9RfzkbaiRIY?eyIK2K



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 0.50	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.3

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 18-11-9.
(lb) - Max Horz 1=71(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 9=131(LC 12), 6=131(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 9=435(LC 23), 6=435(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-320/208, 4-6=-320/208

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 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 20.0psf 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.



November 17, 2020

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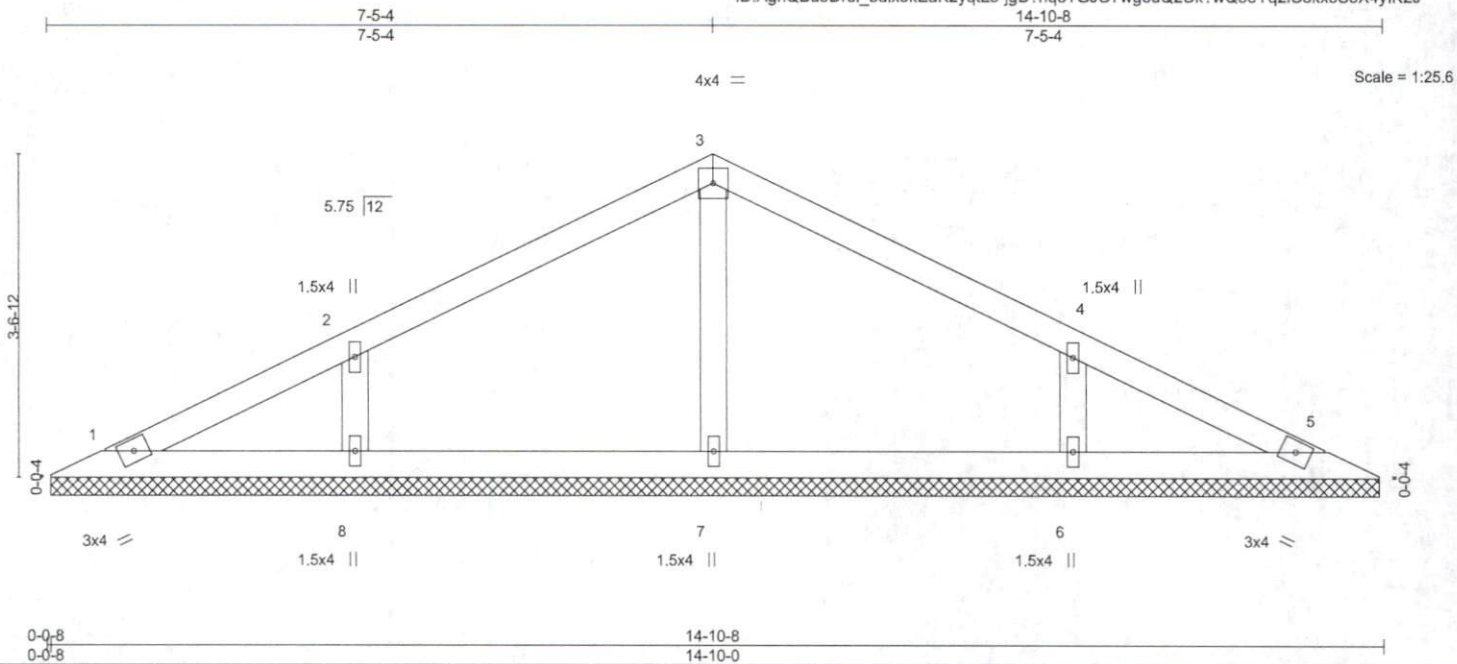
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 24557-24557A	Truss V4	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653210
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MiTek Industries, Inc. Tue Nov 17 09:12:42 2020 Page 1
ID:AghQB5Dr6i_3dix9kEaK2yqtL3-jgB?hqoTGJO7wg6uQ2Uk?wQ5eYq2iC5kx5S5X4yIK2J



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 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 52 lb	FT = 20%

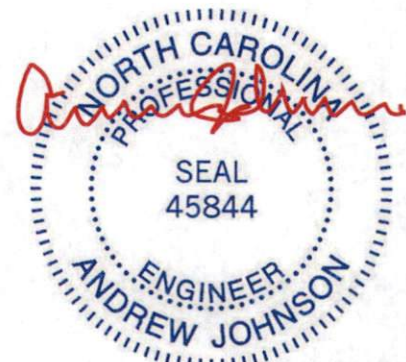
LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.2 or 2x4 SPF No.2
OTHERS 2x4 SP No.3

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 14-9-8.
(lb) - Max Horz 1=54(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-101(LC 12), 6=-101(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=284(LC 1), 8=323(LC 23), 6=323(LC 24)

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=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 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 20.0psf 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.



November 17, 2020

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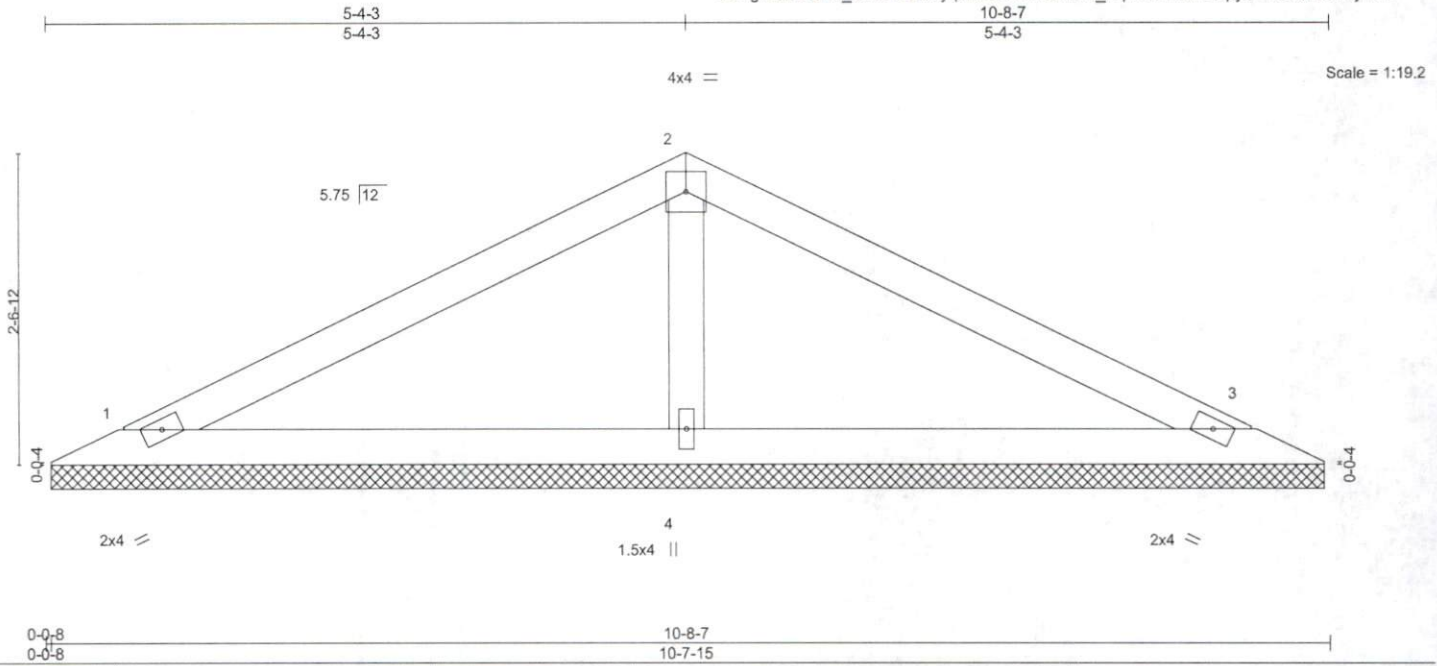
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Job 24557-24557A	Truss V5	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	143653211
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MITek Industries, Inc. Tue Nov 17 09:12:43 2020 Page 1
ID:AghQBu5Dr6l_3dix9kEaK2yqtL3-BslNuAo51dW_Yqh4zm?zX7zCpy6JRFgT9kBF3WylK2I



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	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: 34 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.3
 BOT CHORD 2x4 SP No.3
 OTHERS 2x4 SP No.3

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=10-7-6, 3=10-7-6, 4=10-7-6
 Max Horz 1=-38(LC 17)
 Max Uplift 1=-34(LC 12), 3=-41(LC 13), 4=-20(LC 12)
 Max Grav 1=171(LC 23), 3=171(LC 24), 4=414(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-276/149

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
 - 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 20.0psf 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.



November 17, 2020

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818 Soundside Road
 Edenton, NC 27932

Job 24557-24557A	Truss V6	Truss Type Valley	Qty 1	Ply 1	JRT THE WALLER	I43653212
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84 Components (Dunn), Dunn, NC - 28334,

8.420 s Oct 9 2020 MITek Industries, Inc. Tue Nov 17 09:12:43 2020 Page 1
ID:AghQBUs5Dr6l_3dlx9kEaK2yqtL3-BsINuAo51dW_Yqh4zm?zX7zHqy2mRfBt9kBF3WylK2l



Scale = 1:13.3

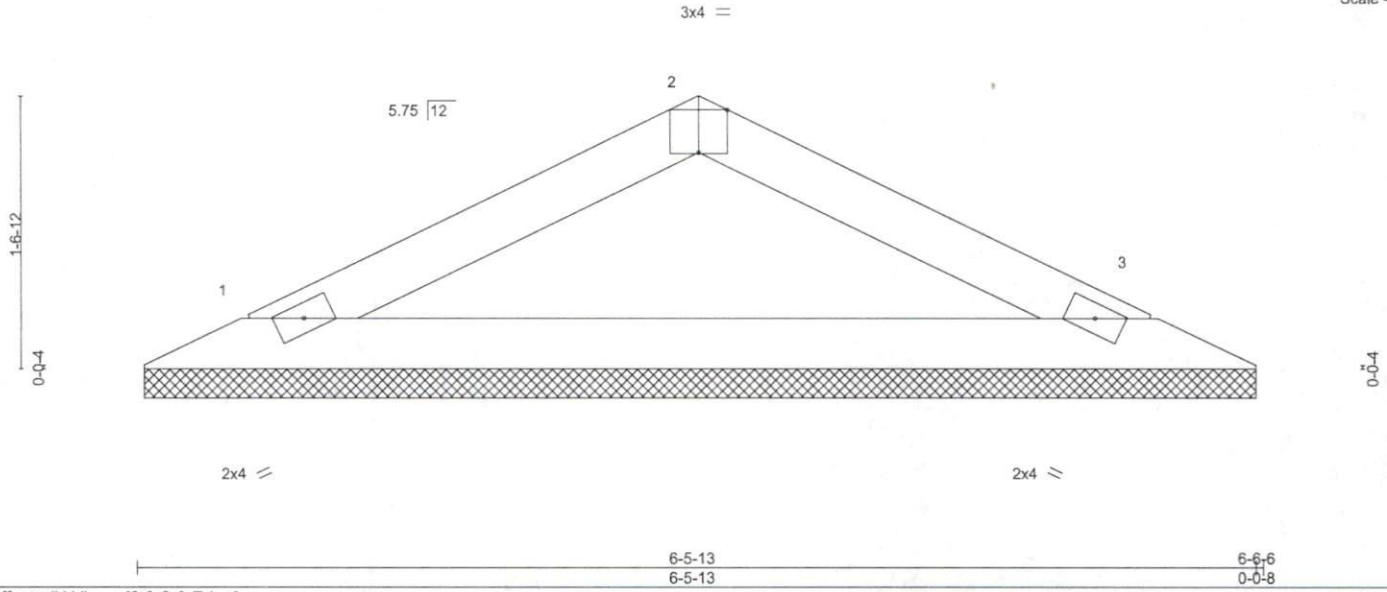


Plate Offsets (X,Y)-- [2:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.3
BOT CHORD 2x4 SP No.3

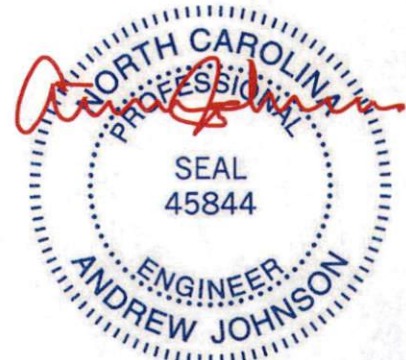
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-5-5, 3=6-5-5
Max Horz 1=21(LC 12)
Max Uplift 1=-25(LC 12), 3=-25(LC 13)
Max Grav 1=209(LC 1), 3=209(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=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; 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
- 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 20.0psf 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.



November 17, 2020

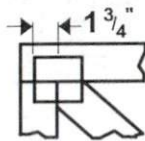
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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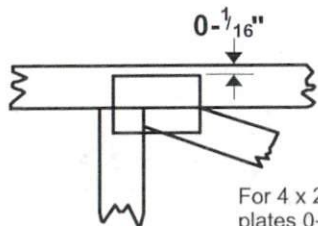


Symbols

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- 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



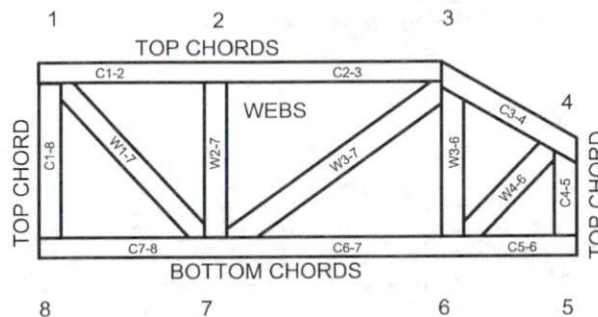
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: 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, ESR1988
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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.