

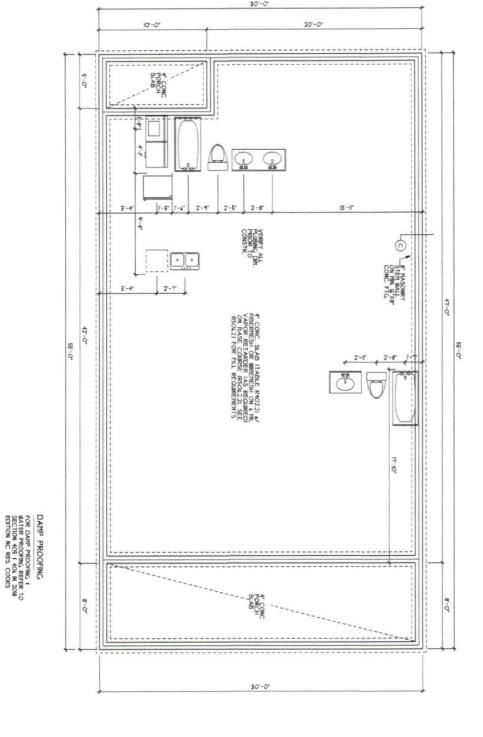




H SQUARED HOME DESIGN, INC.



TO NEW CONTROL



STEM WALL SLAB
FOUNDATION PLAN
SCALE 1/4" = 1"-0"

050521	I STORY	047E-	ANY DEVIATION OF THE SMECHEL PRANSMENTS OF DEMONSTORM OF THE SMECH HORSE DESIGN NC. 3 LABOR HORSE DESIGN NA COORDANCE WITH MORTH PAROLING TATE RESIDENTIAL BULDING COORS 2016 EDITION.	Ja	H SQUARED HOME DESIGN, INC.
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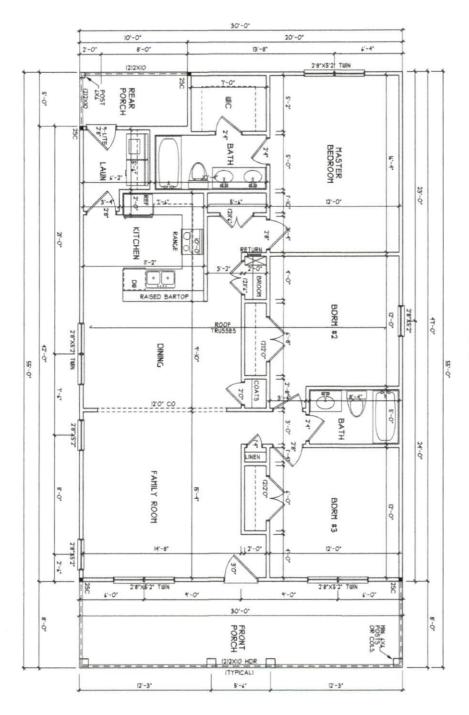
HEATHER HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403

FIRST FLOOR FRONT PORCH REAR PORCH = 1360 = 240 = 50 #1360

HEATED FOOTAGE:

THE CHARLESTON

Seven Magnolias Const



L ALL EXTERIOR AND LOAD BEASHK HEADERS SHALL BE MIN. 07 2m (* MALL) OR 73) 2m (* MALL) WITH 10 SUPPORT STUD, UNLESS NOTED OTHERWISE. UP TO 4' SPAN: (1) KING STUD OVER 8' UP TO 8' SPAN: (2) KING STUDS OVER 8' UP TO 8' SPAN: (3) KINGS STUDS OVER 8' SPAN: (4) KING STUDS HI MARRIER SHOWN AT BELAT AND DIER SUPPORT STUDS. THE BERR OF SUPPORT STUDS. THE BURNER OF KING STUDS AT LENG OF HE MADELER OF LENG OF LENG OF HE MADELER OF LENG OF

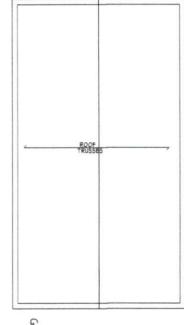
HEADER/BEAM & COLUMN NOTES

TRUSS SYSTEM REQUIREMENTS

A ALL REGUIRED ANCHORS FOR TRUSSES DIE TO UPULT OR BEARING SHALL HEET THE REGUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS HINO?! L TRIES SYSTEM LAYOUTS PLACEMENT PLAKS)
SHALL BE DESEMBLE MA ACCORDANCE SITH
SEALED TRIES PROFILES ANY REED TO
CHARACE TRIESS SHALL BE CORDENATED
SITH THE TRIES HABEFACTURER. 2. TRUSS SCHEMATICS (PROFILES) SHALL BE VREPARED AND SEALED BY TRUSS VANUFACTURER.

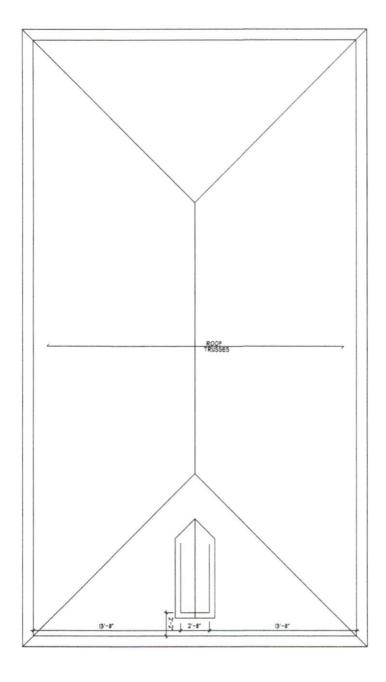
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050521	1 570	05/24 07/24	ANY DEVIATION OF THE SPECIFICO HEASINEMENTS ON DIMENSIONS VOIDS IN SQUARED HOME DESIGN INC. S LIABILITY.	M3	H SQUARED HOME	HEATHER HALL 165 HEATHERSTONE CT	FIRST FLOOR	= 1360	#1360	THE	CHARLESTON	st.	
)521	ORY	1/2	THIS PLAN HAS BEEN DRAIN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BULDING CODES 2018 EDITION	J	DESIGN, INC.	BENSON NC 27504 (9)9) 207-1403	FRONT PORCH REAR PORCH	= 240 = 50	"1000	Seven	Magnolias Cons	st.	יון ו



GABLE OPT.

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIET OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHERATICS.

3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON 9PF #2 OR #3 PLATES OR LEDGERS (INO). I TRUES SYSTEM LAYDOTS OF ACEMENT PLANS)
SMALD RESEARCH NA CORDINANCE BITH
SCALD TRUES PROFIES ANY MEED TO
CHANGE TRUES SHALL BE COORDINATED
BITH THE TRUES TANNET ACTURER. TRUSS SYSTEM REQUIREMENTS 2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.



SCALE 1/4" = F-0"

050521 I STORY

H SQUARED HOME DESIGN, INC.

HEATHER HALL 165 HEATHERSTONE CT BENSON NC 27504 (919) 207-1403 FIRST FLOOR FRONT PORCH REAR PORCH

= 1360 = 240 = 50

HEATED FOOTAGE #1360 THE CHARLESTON

Seven Magnolias Const.

2)	DESIGN LOADS (R3OL4)	LIVE LOAD	DEAD LOAD	DEFLECTION (LL)
	ROOMS OTHER THAN SLEEPING RO	30M5 40	10	1/340
	SLEEPING ROOMS	30	IO.	L/340
	ATTIC WITH PERMANENT STAIR	40	10	1/340
	ATTIC WITH OUT PERMANENT STAL	R 20	NO.	L/340
	ATTIC WITH OUT STORAGE	10	10	L/240
	STAIRS	40		L/340
	EXTERIOR BALCONIES	60	10	L/340
	DECKS	40	10	1/340
	GUARDRAILS AND HANDRAILS	200		
	PASSENGER VEHICLE GARAGES	50	10	L/340
	FIRE ESCAPES	40	10	L/340
	SNOW	20		****

WIND LOAD (BASED ON \$5/20 MPH WIND VELOCITY (EXPOSURE B)

3) WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R402.10.3 SECTION RADADO.3

THE ANOMINE AND LOCATION OF BRACING SHALL COMPLY WITH TABLE RADADO.

THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION RADADO.4.

LATERAL BRACING SHALL BE SATISFIED PER METHOD 3 BY CONTINUOUSLY.

SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION RADADO.3.

SHEATHING BALLS BITH STRUCTURAL SHEATHING FOR COMMINIONALS.

HEATHING BALLS BITH STRUCTURAL SHEATHING FER SECTION RECOZO.

OCHICRET SHALL HAVE A MINIBILITY 20 AND STRUCTURAL SHALL BE RISTALLED AS SPECIFIED.

CONCRETE SHALL HAVE A MINIBILITY 20 AND STERRICTH OF SOOD PSI AND A HAXDRID SHEEP THE COZD. ALL CONCRETE SHALL BE PROPORTIONED, DISCED, MANDLED, SAFELET END SHARD SHALL BE TAKEN FROM THE ENTER SHALL BE SHALL BE TAKEN FROM THE ENTER SHALL BE SHALL BE TAKEN FROM THE ENTER SHALL BE SHALL BE TAKEN FROM THE STRUCTURAL ENGINEER FOR THE STRUCTURAL ENGINEER SHALL BE S

T) ALL MOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (I) 2x4 STUD COLUMN FOR L'-O' HAX. BEAM SPAN (UNO), (2) 2x4 STUDS FOR BEAM SPAN GREATER THAN L'-O' (UNO).

BILVI. SHALL BE LAMMATED VENEER LIMBER: Fx-2400 PSI, Fv-265 PSI, E-1140 PSI, P51. SHALL BE PARALLEL STRAND LIMBER: Fx-2700 PSI, Fv-270 PSI, E-12-030 PSI, LUISER, Fx-2700 PSI, Fv-470 PSI, E-15-030 PSI, Fx-15-030 PSI, INSTALL ALL CONNECTIONS PER HANUFACTURERS INSTRUCTIONS.

THE PARTY OF THE SAME OF THE S

ALL STRUCTURAL STEEL SHALL BE ASTI A-32. STEEL BEARTS SHALL BE SHAPPORTED AT EACH END WITH A MINIMITY BEARING LENGTH OF \$1.2" NICHES AND PLAL FLANCE WIDTH. PROVIDE SOLID BEASING PROVI BEART SHALL BE ATTACHED TO EACH SUPPORT TO THE TWO LAG SCREWS RO? DIAHETER + FLONGL LATERAL SUPPORT IS CONSERED ADEQUATE PROVIDED THE USS ARE TOO HARDED TO THE SOLE PLATE, AND SOLE PLATE IS MALED OR BUSTED TO THE BEART FLANCE * 46" O.C. .

ALL STEEL TURING SHALL BE ASTIT ASOLO SHAPPER OF THE SOLE PLATE, AND SOLE PLATE SHAPPER OF BUSTED TO THE BEART FLANCE * 46" O.C. .

ID REBAR SHALL BE DEFORMED STEEL, ASTMIS, GRADE 40.

D FEEDN SHALL BE BOLTED TOGETHER USING (2) ROWS OF V2" DIAMETER BOLTS (ASTH ASOT) WITH MASHERS PLACED WINDER THE THREADED BND OF BOLT. BOLTS SHALL BE SPACED AT V O.C. MAX), AND STAGGERED AT THE YOP AND BOTTON OF BARN (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT "FROM EACH END.

3) BRICK LINNELS SHALL BE 3 V2"3 V2"4" STEEL ANDEE FOR W? TO.

SPAN AND 4'M'M5/K" STEEL ANGLE WITH 4" LEG VERTICAL FOR SPANS UP TO "-O" (UNO).

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

(5) 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:

POOF-45.4 PSF - 2.2542 PITCH OR LESS 34.8 PSF - 2.2542 TO 142 PITCH 21 PSF - 142 TO 1242 PITCH MALLS:

24J PSF - WALLS

TRUSS SYSTEM REQUIREMENTS NC (2018 NCRC)

L TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH ROOF TRUSS LAYOUTS AND SEALED PROPULED PROVIDED BY THE ROOF TRUSS HAMFACTURER, ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH THE ROOF TRUSS HAMFACTURED.

TRUSS SCHEMATICS (PROPILES) SHALL BE PREPARED AND SEALED BY TRUSS HANUFACTURER.

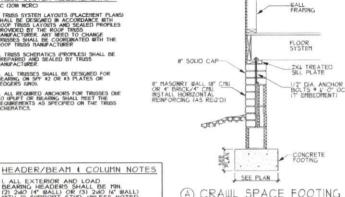
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).

4. ALL REGIMED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REGIMENTATION AS SPECIFIED ON THE TRUSS SCHERATICS.

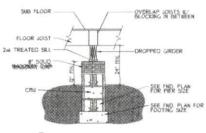
L ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 240 (4" WALL) OR (3) 240 (4" WALL) OR (5) CHERWISE.

2. THE NUMBER SHOWN AT BEATH AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORTS STUDS OF COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE RUOZJESS OF AS BELOW.

4' SPAN: (1) KING STUD 4' UP TO 8' SPAN: (2) KING STUDS 8' UP TO 11' SPAN: (3) KINGS STUDS 11' SPAN: (4) KING STUDS



(A) CRAWL SPACE FOOTING (SIDING III/ BRICK SKIRT)



(B) DROPPED GIRDER



FIGURE R602:10.3.2 ALTERNATE BRACED WALL PANEL

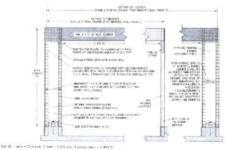
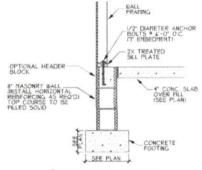
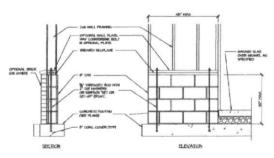


FIGURE R602-16-3-3 METHOD PEH: PORTAL FRAME WITH HOLD-DOWNE



(C) STEM WALL FOOTING



GARAGE WING WALL' REINFORCING PER INC FIGURE R6021043

BUILDING SHEET 0 MPH) DETAIL SI (115-120 BASIC

> TOT 0 NOTE ALS A PLAN. *PLEASE ALL DET EVERY

C HEATHERSTONE C' BENSON NC 27504 (819) 207-1403 98

H SQUARED HOME DESIGN, INC.

J

THE PLAN MAS BEEN DRAWN ACCORDANCE WITH MOST'N CAROLINA STATE WESTGRITH. BELDING CODES 20% ROTTON. ANY DEVATOR OF THE SPECIAL MASSEMBLYS OR DESIGNATION VOICE HIS SOLUTION OF DESIGN NO.3 LABELTY.

DATE

FRE.



Trenco

818 Soundside Rd Edenton, NC 27932

Re: 2861338 2861338

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Stock Building Supply.

Pages or sheets covered by this seal: T24885358 thru T24885361

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

North Carolina COA: C-0844



August 2,2021

Magid, Michael

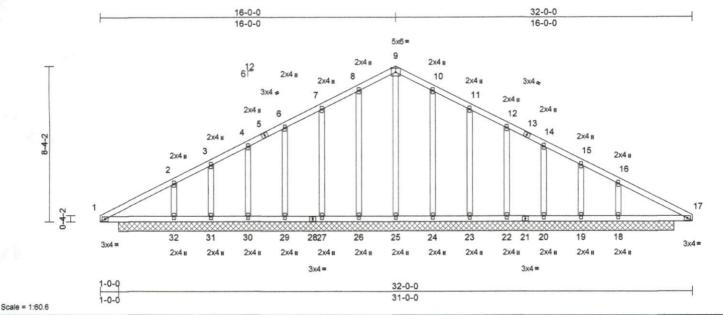
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or 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.

Qty Ply 2861338 Job Truss Truss Type T24885358 2 2861338 A1GE Common lob Reference (optional)

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

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Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L∕d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horiz(TL)	-0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 189 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4

SP M 31

BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31

OTHERS 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

10-0-0 oc purlins

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing

REACTIONS (lb/size)

18=364/30-0-0, 19=58/30-0-0, 20=185/30-0-0, 22=155/30-0-0, 23=155/30-0-0, 24=179/30-0-0, 25=370/30-0-0, 26=179/30-0-0, 27=155/30-0-0, 29=155/30-0-0, 30=185/30-0-0, 31=58/30-0-0,

32=364/30-0-0 Max Horiz 32=-105 (LC 11)

Max Uplift 18=-28 (LC 10), 19=-61 (LC 11), 20=-19 (LC 11), 22=-29 (LC 11), 23=-30 (LC 11), 24=-22 (LC 11) 26=-22 (LC 10), 27=-30 (LC 10), 29=-29 (LC 10), 30=-18 (LC 10),

31=-64 (LC 10), 32=-32 (LC 11)

Max Grav 18=469 (LC 22), 19=123 (LC 21), 20=208 (LC 22), 22=155 (LC 1), 23=158 (LC 22), 24=179 (LC 1), 25=370 (LC 1), 26=179 (LC 1), 27=158 (LC 21), 29=155 (LC 1), 30=208 (LC 21), 31=123 (LC 22),

32=469 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

16-17=-50/323

1-2=-52/323, 2-3=-7/272, 3-4=0/296 4-6=0/291, 6-7=0/291, 7-8=0/298, 8-9=0/293, 9-10=0/291, 10-11=0/297, 11-12=0/291, 12-14=0/291, 14-15=0/296, 15-16=-4/272,

BOT CHORD

1-32=-237/75, 31-32=-237/73, 30-31=-237/73, 29-30=-237/73 27-29=-237/73, 26-27=-237/73, 25-26=-237/73, 24-25=-237/73, 23-24=-237/73, 22-23=-237/73, 20-22=-237/73, 19-20=-237/73,

18-19=-237/73, 17-18=-237/73

9-25=-329/0, 8-26=-139/51, 7-27=-116/64 6-29=-119/58 4-30=-141/62 3-31=-67/62 2-32=-282/94, 10-24=-139/51, 11-23=-116/64, 12-22=-119/58,

14-20=-141/62, 15-19=-67/61, 16-18=-282/94

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 26, 30 lb uplift at joint 27, 29 lb uplift at joint 29, 18 lb uplift at joint 30, 64 lb uplift at joint 31, 32 lb uplift at joint 32, 22 lb uplift at joint 24, 30 lb uplift at joint 23, 29 lb uplift at joint 22, 19 lb uplift at joint 20, 61 lb uplift at joint 19 and 28 lb uplift at joint 18.

LOAD CASE(S) Standard



August 2,2021



Edenton, NC 27932

Qty Ply 2861338 Job Truss Truss Type T24885359 2 Common 2861338 A2 Job Reference (optional)

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

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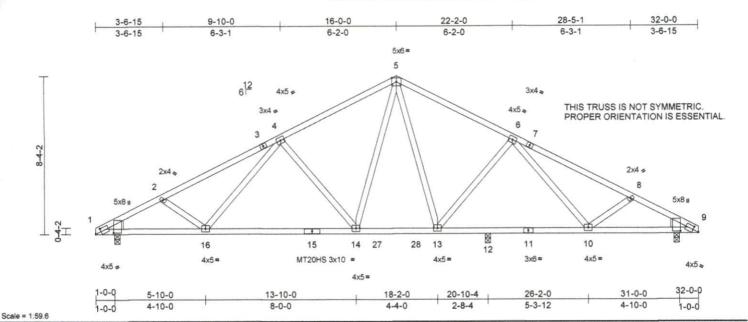


Plate Offsets (X, Y): [1:0-3-12,0-2-0], [1:0-0-13,0-11-7], [9:0-3-12,0-2-0], [9:0-0-13,0-11-7]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.00	TC	0.46	Vert(LL)	-0.09	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.21	14-16	>999	180	MT20HS	187/143
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 174 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4

SP M 31

BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 SP M 31

WEBS 2x4 SP No.2 Left: 2x6 SP No.2 WEDGE

Right: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-6-4 oc purlins. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (lb/size) 1=1175/0-3-8, 9=1075/0-3-8,

12=310/0-3-8 Max Horiz 1=-105 (LC 11)

Max Uplift 1=-52 (LC 10), 9=-64 (LC 11)

Max Grav 1=1175 (LC 1), 9=1075 (LC 1),

12=325 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1699/272, 2-4=-1625/256

> 4-5=-1294/293, 5-6=-1172/299 6-8=-1413/266, 8-9=-1502/281

1-16=-196/1414, 14-16=-135/1350,

13-14=-11/923, 12-13=-142/1210,

10-12=-142/1210, 9-10=-202/1263

5-14=-62/573, 4-14=-463/172, 4-16=0/225, 2-16=-42/116, 6-13=-420/174, 6-10=-24/114,

8-10=-104/108, 5-13=-95/221

NOTES

WEBS

BOT CHORD

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 1 and 64 lb uplift at joint 9.

LOAD CASE(S) Standard



August 2,2021



Edenton, NC 27932

Jób	Truss	Truss Type	Qty	Ply	2861338	T24885360
2861338	A3	Common	5	1	Job Reference (optional)	124665360
Duildess FlortCourse (M)	iddlessy NC) Middlessy NC 2	7667	Rup: 8 43 S. Jul 16 2021 Print: 8 4	130 S.Jul 16	2021 MiTek Industries, Inc. Mon Aug 02 10:58:00	Page: 1

Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557,

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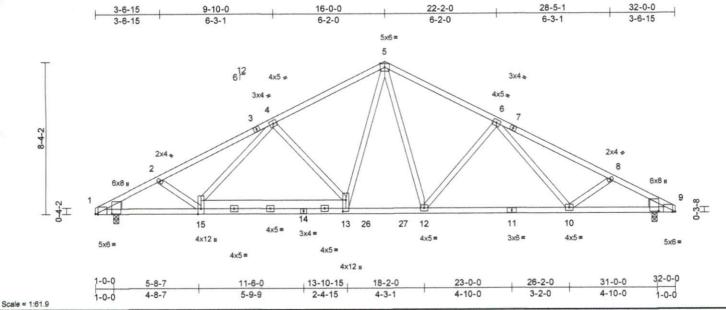


Plate Offsets (X, Y): [1:0-1-12,Edge], [1:0-0-5,0-10-15], [9:0-1-12,Edge], [9:0-0-9,0-10-15], [13:0-7-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI	0.54	DEFL	in	(loc)	l/defl >999		PLATES MT20	GRIP 244/190
TCLL (roof) TCDL	20.0 10.0	Plate Grip DOL Lumber DOL	1.00 1.15	TC BC		Vert(LL) Vert(CT)		10-12 10-12	>999	180	W1120	244/190
BCLL		Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.05	9	n/a	n/a	14/aiaht, 102 lh	ET - 20%
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 192 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4

SP M 31

BOT CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4

SP M 31 *Except* 15-13:2x6 SP 2400F 2.0E

or 2x6 SP DSS or 2x6 SP M 31 2x4 SP No.2 WEBS

WEDGE

Left: 2x6 SP No.2 Right: 2x6 SP No.2

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

4-1-10 oc purlins

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

1=1280/0-3-8, 9=1280/0-3-8 REACTIONS (lb/size)

Max Horiz 1=-105 (LC 11) Max Uplift 1=-37 (LC 10), 9=-37 (LC 11)

(lb) - Maximum Compression/Maximum

Tension

1-2=-1952/279, 2-4=-1893/257, TOP CHORD

4-5=-1536/289, 5-6=-1506/283 6-8=-1814/248. 8-9=-1873/264

BOT CHORD 1-15=-200/1629, 13-15=-136/1583

12-13=-5/1146, 10-12=-127/1535,

9-10=-189/1558

WEBS 4-15=0/232, 2-15=-21/127, 4-13=-471/175,

5-13=-76/542, 6-12=-457/173, 6-10=0/199,

8-10=-17/136, 5-12=-57/484

NOTES

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

- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33
- 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 3-06-00 tall by 2-00-00 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 37 lb uplift at joint 1 and 37 lb uplift at joint 9.

LOAD CASE(S) Standard



August 2,2021

Edenton, NC 27932

Job Truss Type Qty Ply 2861338 Truss T24885361 20 2861338 A4 Common lob Reference (optional) Page: 1 Builders FirstSource (Middlesex, NC), Middlesex, NC - 27557 Run: 8.43 S Jul 16 2021 Print: 8.430 S Jul 16 2021 MiTek Industries, Inc. Mon Aug 02 10:58:00

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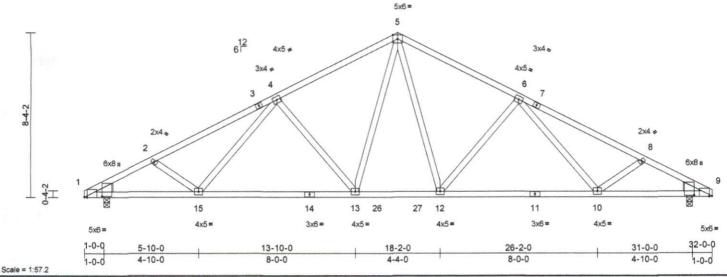


Plate Offsets (X, Y): [1:0-1-12,Edge], [1:0-0-9,0-10-15], [9:0-1-12,Edge], [9:0-0-9,0-10-15]

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.00	CSI TC	tanan managari	DEFL Vert(LL)	in -0.11	(loc) 13-15	l/defl >999		PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.26	13-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 174 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4

SP M 31

2x4 SP 2400F 2.0E or 2x4 SP DSS or 2x4 BOT CHORD

SP M 31

WEBS 2x4 SP No.2 WEDGE Left: 2x6 SP No.2

Right: 2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-4 oc purlins

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 1=1280/0-3-8, 9=1280/0-3-8

Max Horiz 1=-105 (LC 11)

Max Uplift 1=-37 (LC 10), 9=-37 (LC 11)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1875/264, 2-4=-1816/247,

4-5=-1503/284, 5-6=-1503/284, 6-8=-1816/247, 8-9=-1875/264

BOT CHORD 1-15=-189/1559, 13-15=-127/1534, 12-13=-2/1132, 10-12=-127/1534,

9-10=-189/1559

WEBS 5-13=-65/507, 4-13=-459/172, 4-15=0/206, 2-15=-15/139, 6-12=-459/172, 6-10=0/206,

8-10=-15/139, 5-12=-65/507

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-10; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33

- 3) 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 3-06-00 tall by 2-00-00 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 37 lb uplift at joint 1 and 37 lb uplift at joint 9.

LOAD CASE(S) Standard



August 2,2021

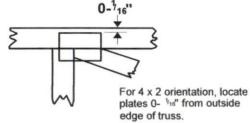


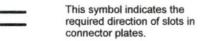
Symbols

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.





^{*} 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:

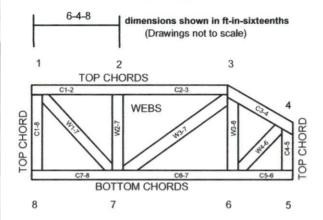
ANSI/TPI1: National Design Specification for Metal

Plate Connected Wood Truss Construction.

DSB-89: Design Standard for Bracing, BCSI: Building Component Safety In

Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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.
- 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.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.