CAPE FEAR CHRISTIAN ACADEMY
BUILDING PLANS
Footings for 6x6 Poles

- CAPE FEAR CHRISTIAN ACADEMY
- POINT OF CONTACT
  RUTH B. SCOTT
  919-795-9604 cell

6X6

2' DEEP

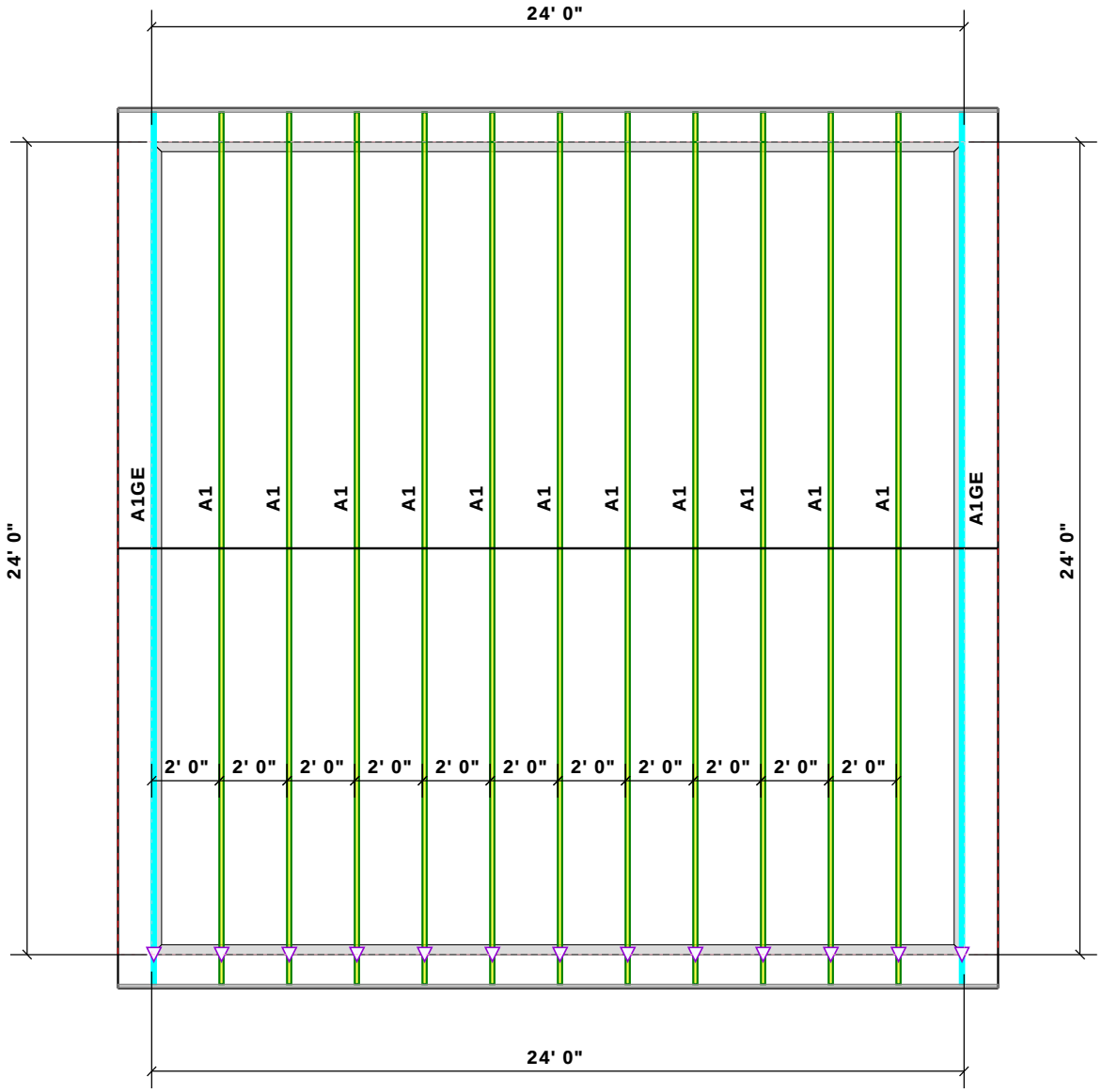
12"x12"x4" THICK FOOTINGS

- 4/12 PITCH - SEE TRUSS DRAWING
- TRUSS ON 2' CENTER.
- 4" OF CONCRETE INSIDE 24 x 24
- QTY 4 POST ON THE SIDE, 8' SPACED
- QTY 2 (2x10) BEAMS TO CARRY TRUSSES
- CONNECTING WITH 1/2" LAG BOLT, 5" LONG
- NOTE ITEM #5 ON TRUSS DRAWING FOR MECHANICAL CONNECTION

Code minimum is 24"x24"x8" thick

*Header to post must be through bolts with nut/washer, not lag bolts.
*Post must have angle bracing between 45 and 60 degrees in top 1/3 of post to beams. Bracing must also be through bolted to posts/beams, or full depth SDS screws may be used (for bracing only)

NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes and is subject to field inspection and verification.
APPROVED
Limited building only review
Permit holder responsible for full compliance with the code
09/10/2020
Harnett COUNTY NORTH CAROLINA



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

Signature Dwayne Naylor
Dwayne Naylor

TRUSS PLACEMENT PLAN
SCALE: 3/16" = 1'-0"

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

COMTECH
ROOF & FLOOR TRUSSES & BEAMS
Reilly Road Industrial Park
Fayetteville, N.C. 28309
Phone: (910) 864-8787
Fax: (910) 864-4444

LOAD CHART FOR JACK STUDS

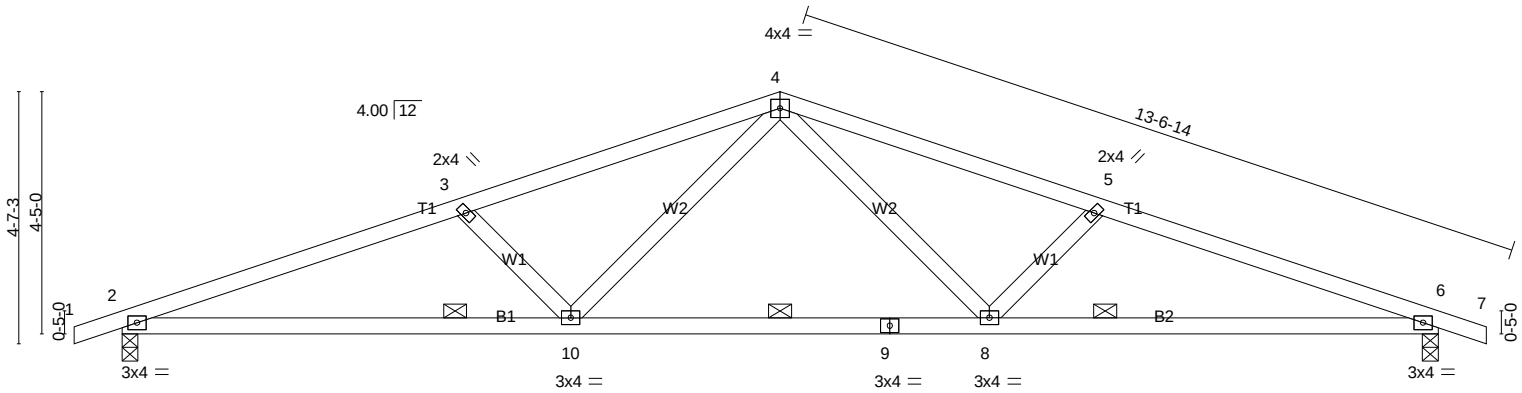
BUILDER	Cash / Ruth Scott
JOB NAME	Cape Fear Christian Academy
PLAN	24x24 Shelter
SEAL DATE	Seal Date
QUOTE #	B0820-3744
JOB #	
CITY / CO.	Erwin / Harnett
ADDRESS	Cape Fear Christian Academy
MODEL	Roof
DATE REV.	08/14/20
DRAWN BY	Dwayne Naylor
SALES REP.	Dwayne Naylor

Job	Truss	Truss Type	Qty	Ply	Cape Fear Christian Academy
B0820-3744	A1	COMMON	11	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Dwayne Naylor — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Fri Aug 14 14:07:35 2020 Page 1
ID:LFsn6Jb1fS3nx?6QjZ9ygcynwlj-K_VnHB2w0p18jkYyIPbUBuaHSJ7gqLH5R79J8OynwUM

-0-10-8	6-3-5	12-0-0	17-8-11	24-0-0	24-10-8
0-10-8	6-3-5	5-8-11	5-8-11	6-3-5	0-10-8

Scale = 1:42.0



8-2-3	15-9-13	24-0-0
8-2-3	7-7-10	8-2-3

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	0.38	Vert(LL)	-0.12	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.28	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.07	8-10	>999	240	Weight: 101 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins.
BOT CHORD 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-1-8), 6=0-3-8 (min. 0-1-8)
Max Horz 2=51(LC 12)
Max Uplift2=-112(LC 8), 6=-112(LC 9)
Max Grav 2=1010(LC 1), 6=1010(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2187/514, 3-4=-1930/448, 4-5=-1930/448, 5-6=-2187/514
BOT CHORD 2-10=-425/2020, 8-10=-225/1369, 6-8=-430/2020
WEBS 4-8=-84/614, 5-8=-382/218, 4-10=-84/614, 3-10=-382/218

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 12-0-0, Exterior(2) 12-0-0 to 16-4-13, Interior(1) 16-4-13 to 24-10-8 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2 and 112 lb uplift at joint 6.
6) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

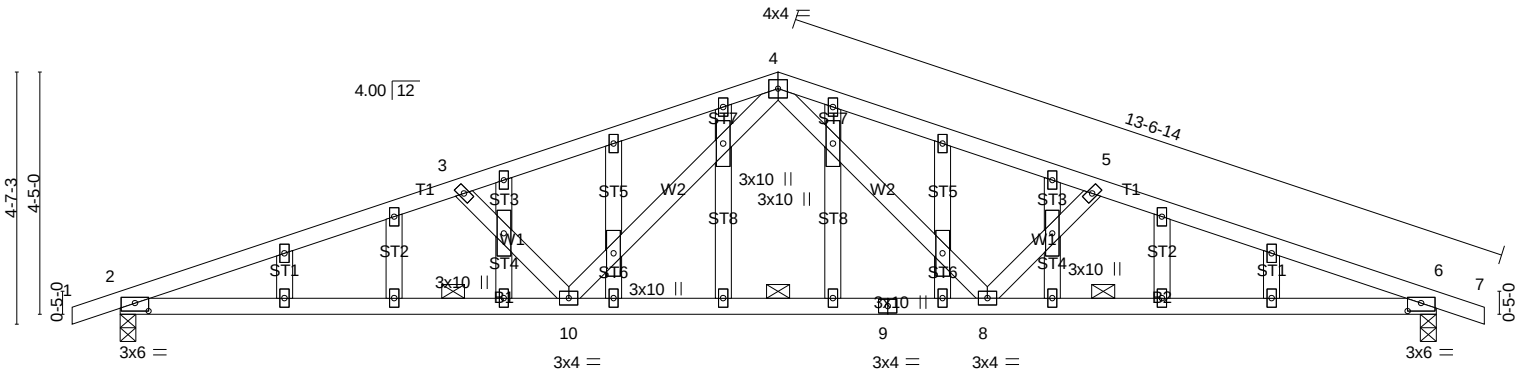
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Cape Fear Christian Academy
B0820-3744	A1GE	GABLE	2	1	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, Dwayne Naylor — Run: 8.300 s Mar 22 2019 Print: 8.300 s Mar 22 2019 MiTek Industries, Inc. Fri Aug 14 14:07:36 2020 Page 1
ID:LFsn6Jb1fS3nx?6QjZ9ygcynwlj-oA39UX2Yn79?Lu78s66jk66SCjQKZoXFgnvsgrynwUL

-0-10-8	6-3-5	12-0-0	17-8-11	24-0-0	24-10-8
0-10-8	6-3-5	5-8-11	5-8-11	6-3-5	0-10-8

Scale = 1:42.0



8-2-3	15-9-13	24-0-0
8-2-3	7-7-10	8-2-3

Plate Offsets (X,Y)-- [2:0-2-15,0-1-12], [6:0-2-15,0-1-12]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.12	6-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.28	6-8	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014		Matrix-S		Wind(LL)	0.11	8-10	>999	240	Weight: 132 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins.
BOT CHORD 6-6-0 oc bracing: 2-6

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (size) 2=0-3-8 (min. 0-1-8), 6=0-3-8 (min. 0-1-8)
Max Horz 2=-87(LC 17)
Max Uplift 2=-273(LC 8), 6=-273(LC 9)
Max Grav 2=1010(LC 1), 6=1010(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2187/1052, 3-4=-1930/934, 4-5=-1930/934, 5-6=-2187/1052
BOT CHORD 2-10=-920/2020, 8-10=-530/1369, 6-8=-921/2020
WEBS 4-8=-220/614, 5-8=-382/354, 4-10=-220/614, 3-10=-382/354

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 12-0-0, Corner(3) 12-0-0 to 16-4-13, Exterior(2) 16-4-13 to 24-10-8 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 2x4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 273 lb uplift at joint 2 and 273 lb uplift at joint 6.
9) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard