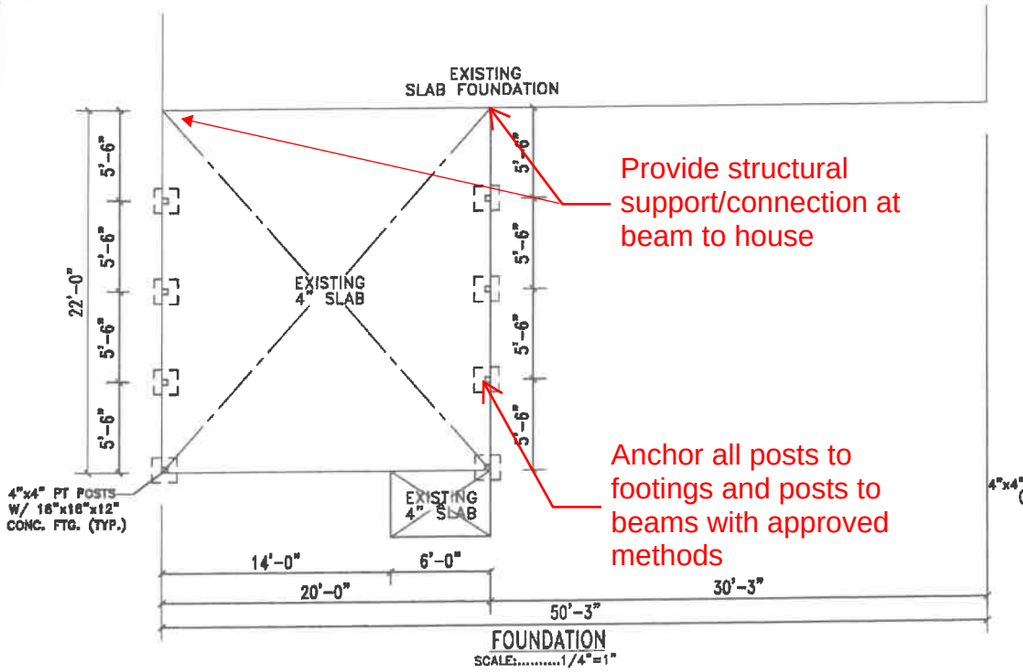
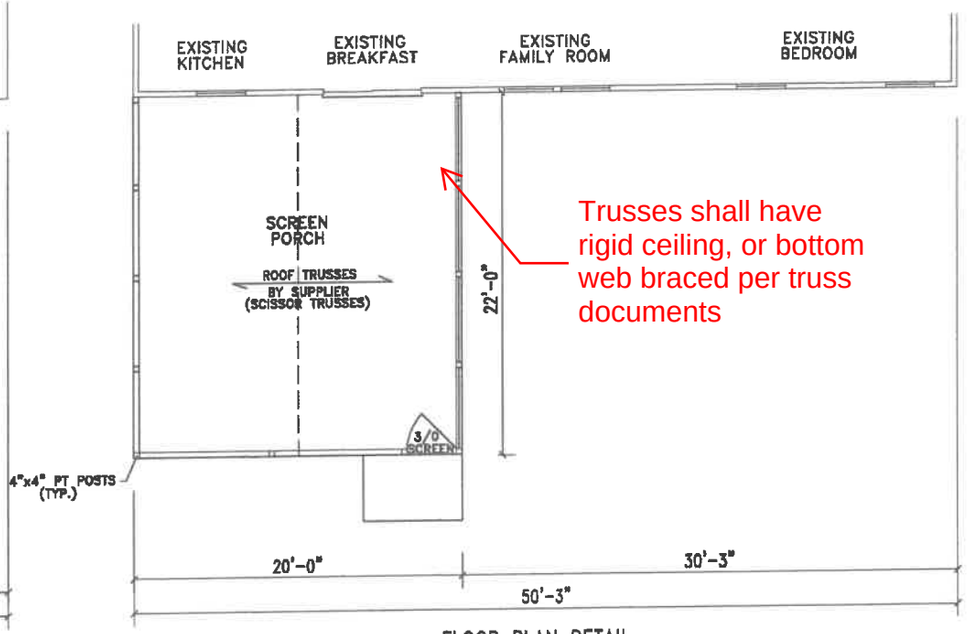


Provide structural support/connection at beam to house

Anchor all posts to footings and posts to beams with approved methods

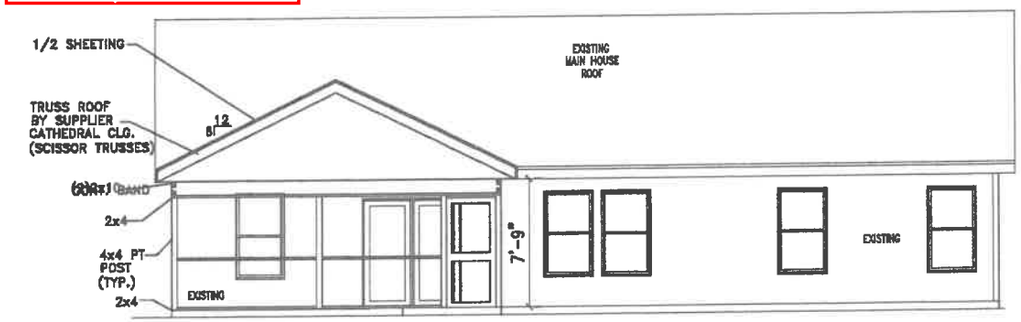
FOUNDATION
SCALE:.....1/4"=1"



Trusses shall have rigid ceiling, or bottom web braced per truss documents

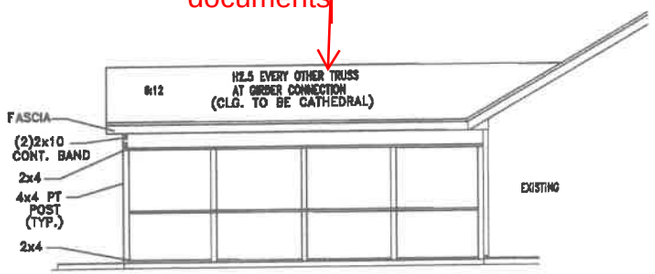
FLOOR PLAN DETAIL
SCALE:.....1/4"=1"

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
01/04/2024
Harnett COUNTY NORTH CAROLINA



FRONT ELEVATION DETAIL
SCALE:.....1/4"=1"

Provide uplift connectors at each truss per truss documents



SIDE ELEVATION DETAIL
SCALE:.....1/4"=1"

REVISIONS:

FRONT PORCH
BUILDING COMPANY
919-291-7877

Harnett County

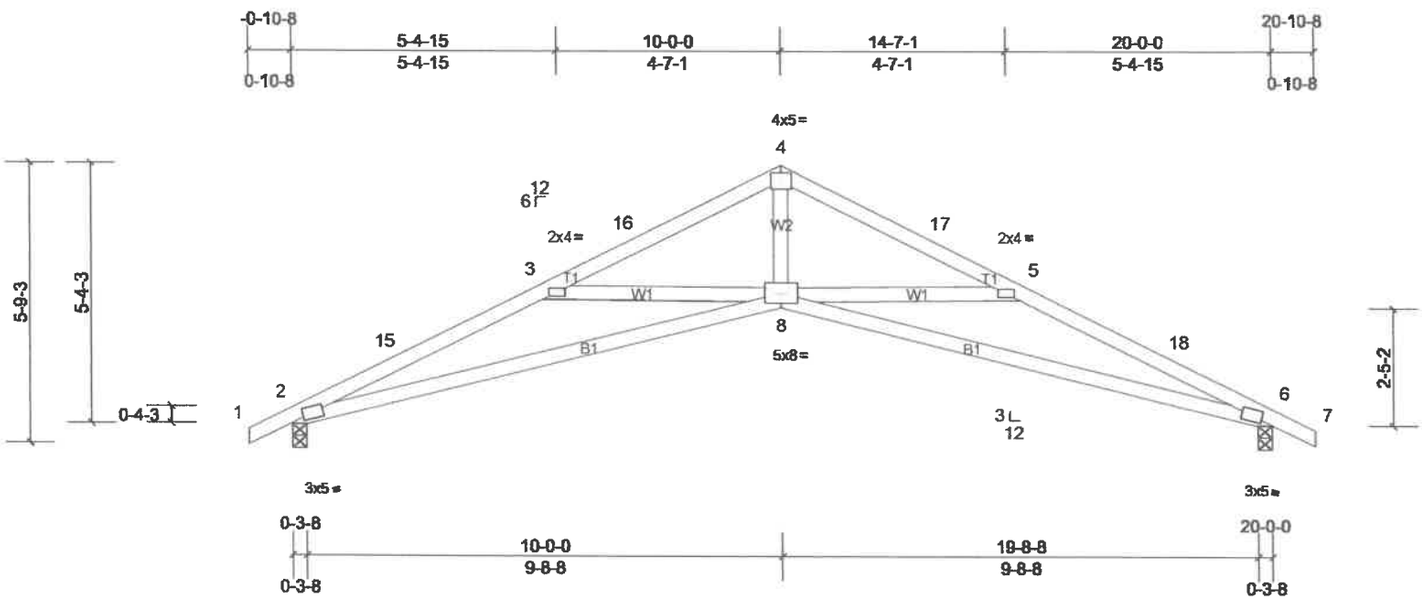
20 x22 Slab
Screen Porch

FILE
DESIGN ADS
DRAWN ADS
CHECKED
DATE 10/23/2023
SHEET 1

Job	Truss	Truss Type	Qty	Ply	20x22 Screen Porch-20x22 Screen Porch
Q-2302581-1	T1	Scissor	10	1	Job Reference (optional)

Peak Truss Builders LLC, New Hill, user — Run: 8.94 S 8.72 Sep 21 2023 Print: 8.720 S Sep 21 2023 MiTek Industries, Inc. Mon Dec 11 15:03:29 — Page: 1

ID:RvVvBqo7d?zM0qz6XILmp6yA0aL-IIPzFwU?OveuspkOQOmRkjBJAgEMjCBt6Hey4RyA0Ri



Scale = 1:43

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.13	8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.37	8-11	>657	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.18	6	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 85 lb	FT = 20%

LUMBER
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS (lb/size) 2=853/0-3-8, (min. 0-1-8), 6=852/0-3-8, (min. 0-1-8)
Max Horiz 2=-81 (LC 9)
Max Uplift 2=-129 (LC 11), 6=-129 (LC 11)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-15=-2453/308, 3-15=-2420/329, 3-16=-1837/136, 4-16=-1769/152, 4-17=-1769/152, 5-17=-1837/136, 5-18=-2420/329, 6-18=-2453/308
BOT CHORD 2-8=-228/2253, 6-8=-228/2253
WEBS 4-8=-14/1299, 5-8=-623/231, 3-8=-623/231

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=4ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior (2) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 10-0-0, Exterior (2) 10-0-0 to 13-0-0, Interior (1) 13-0-0 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) * 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.
4) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2 and 129 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	20x22 Screen Porch-20x22 Screen Porch
Q-2302581-1	T1GE	Common Supported Gable	1	1	Job Reference (optional)

Peak Truss Builders LLC, New Hill, user — Run: 8.94 S 8.72 Sep 21 2023 Print: 8.720 S Sep 21 2023 MiTek Industries, Inc. Mon Dec 11 15:03:30 — Page: 1

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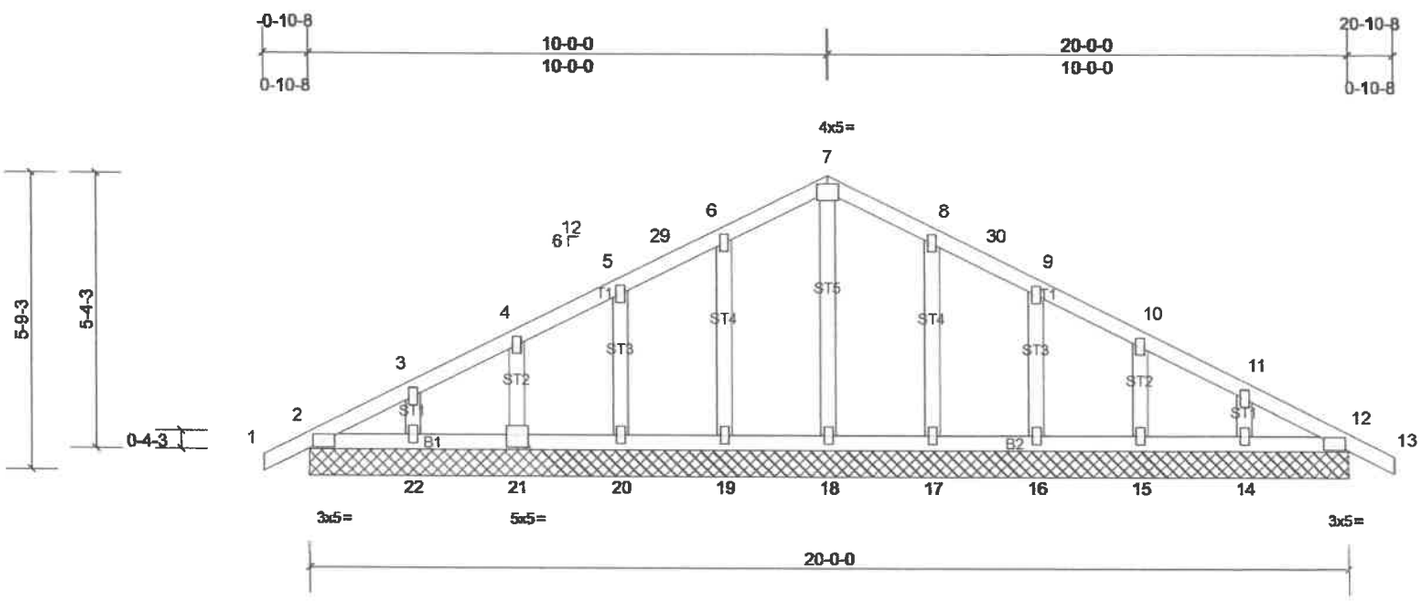

Scale = 1:40.6

Plate Offsets (X, Y): [21:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	26	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MS							Weight: 101 lb	FT = 20%

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

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

REACTIONS All bearings 20-0-0.
(lb) - Max Horiz 2=81 (LC 10), 23=81 (LC 10)
Max Uplift All uplift 100 (lb) or less at joint(s) 2, 12, 14, 15, 16, 17, 19, 20, 21, 22, 23, 26
Max Grav All reactions 250 (lb) or less at joint(s) 2, 12, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 26

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=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=30ft; B=20ft; L=20ft; eave=2ft; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner (3) -0-10-8 to 2-0-0, Exterior (2) 2-0-0 to 10-0-0, Corner (3) 10-0-0 to 13-0-0, Exterior (2) 13-0-0 to 20-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12, 2, 12.
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