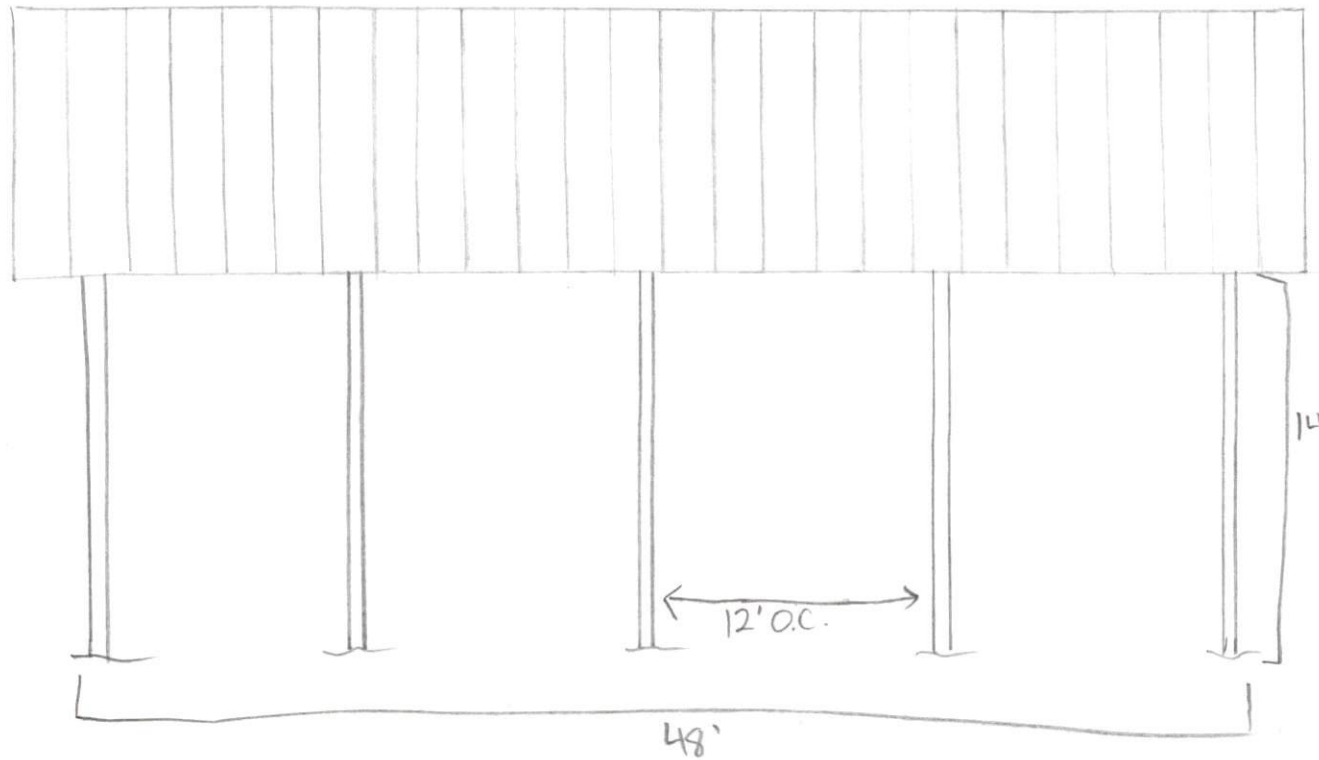


See S100 for this connection requirement



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STRUCTURAL ENGINEER
NORTH CAROLINA P.E. #04355

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STRUCTURAL NOTES

GENERAL

- DESIGN CODE DATA
2018 INTERNATIONAL BUILDING CODE
ASCE 7-16: MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
AISC 360-05: SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS

DESIGN LOADS:

ROOF DEAD LOADS: 10 PSF
ROOF LIVE LOADS: 20 PSF

WIND DESIGN CRITERIA

WIND LOAD: 150 MPH 3 SECOND GUST
NOMINAL DESIGN WIND SPEED: 116 MPH
INTERNAL PRESSURE COEFFICIENT: 0.0 (OPEN)
RISK CATEGORY 1 BUILDING (THIS STRUCTURE IS DESIGNED AS AN UNINHABITABLE STRUCTURE AND SHALL NOT BE CONVERTED TO A HABITABLE WITHOUT PRIOR APPROVAL FROM ENGINEER OF RECORD)
EXPOSURE CATEGORY B
BASE VELOCITY PRESSURE: 34.3 PSF

- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON OR EXISTING STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.

COMPONENTS AND CLADDING					
ROOFS		DESIGN PRESSURE (LLT)		DESIGN PRESSURE (ASD)	
TRIBUTARY AREA 10 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)
ZONE 1 max	33.4	30.7	20.0	18.4	
ZONE 2 max	51.6	47.6	30.9	28.5	
ZONE 3 max	66.8	61.6	40.1	36.9	
TRIBUTARY AREA 100 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)	
ZONE 1 max	33.4	30.7	20.0	18.4	
ZONE 2 max	33.4	47.6	20.0	28.5	
ZONE 3 max	33.4	47.6	20.0	28.5	
WALLS		DESIGN PRESSURE		DESIGN PRESSURE	
TRIBUTARY AREA 10 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)
ZONE 4	34.3	37.7	20.6	22.6	
ZONE 5	34.3	48.0	20.6	28.8	
TRIBUTARY AREA 100 SF	POSITIVE (PSF)	NEGATIVE (PSF)	POSITIVE (PSF)	NEGATIVE (PSF)	
ZONE 4	28.2	31.7	16.9	19.0	
ZONE 5	28.2	35.9	16.9	21.6	

BUILDING RISK CATEGORY 1 - AGRICULTURAL STORAGE STRUCTURES INTENDED ONLY FOR INCIDENTAL HUMAN OCCUPANCY, OR A DETACHED ONE & TWO FAMILY DWELLING ASSIGNED SDC A, B, OR C, OR WITH A Ss, IS LESS THAN 0.4g.

SNOW LOAD (S)

19.00psf = Roof Snow Load 25psf = Ground Snow Load
Thermal Factor = 1.00 Snow Exposure Factor = 1.00 Snow Importance Factor = 0.80

SEISMIC LOAD (E)

Equivalent Lateral Force Procedure
0.35 = 0.2s Short Period Spectral Response Acceleration S(s)
0.12 = 1.0s Spectral Response Acceleration S(1)
Site Classification = D

Seismic Importance Factor = 1.00

Seismic Design Category = C

Seismic Design Short Period Acceleration, SDS = 0.355

Seismic Design 1 Sec Period Acceleration, SD1 = 1.189

Cantilever Columns for Timber Frames, R=1.5 Transverse & Longitudinal.

Analysis Procedure: Under Section 1613 of the IBC 2018,
Earthquake Loads are not required
to be considered for a Risk Category 1 Structure.

- THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. THE STRUCTURAL ENGINEER ASSUMES NO LIABILITY FOR THE STRUCTURE DURING CONSTRUCTION.

- THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS OF CONSTRUCTION AND ALL JOB SITE SAFETY.

- VERIFY ALL DIMENSIONS PRIOR TO THE START OF CONSTRUCTION - DO NOT SCALE DRAWINGS.

CONCRETE

FOOTING AND FOUNDATION WALL 3,000 PSI @ 28 DAYS
SLAB ON GRADE 3,000 PSI @ 28 DAYS
ALL OTHER CIP CONCRETE 3,000 PSI @ 28 DAYS
CONCRETE REINFORCING STEEL 60 KSI, ASTM A615

FOUNDATION

- ALLOWABLE SOIL BEARING CAPACITY = 2,000 PSF FOR FOOTINGS (PRESUMPTIVE)
- GRADE AREAS IN ACCORDANCE WITH ELEVATIONS AND GRADES SHOWN ON THE SITE DRAWINGS AND AS REQUIRED FOR DRAINAGE.
- ALL SLAB ON GRADE AREAS SHALL BE PROOF ROLLED. ALL SOFT SPOTS SHALL BE REMOVED AND REPLACED WITH COMPACTABLE FILL.
- SLAB ON GRADE TO BE CONSTRUCTED ON A MINIMUM OF 6" OF COMPACTED GRANULAR FILL.
- ALL FILL MATERIAL USED IN GRADING OPERATIONS SHALL CONSIST OF EARTH, WHICH IS FREE OF DEBRIS, BOULDERS OR ORGANIC MATERIAL. FILL SHALL BE PLACED IN MAXIMUM OF 12' LIFTS AND COMPACTED TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR COMPACTED FILL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY AS INDICATED ABOVE.
- THE ENGINEER SHALL BE NOTIFIED IF ACTUAL FIELD CONDITIONS DO NOT MEET BEARING REQUIREMENTS OR, IF QUESTIONABLE SOIL CONDITIONS ARE DISCOVERED INCLUDING BUT NOT LIMITED TO PEAT AND OTHER HIGH ORGANIC SOILS.
- ANY FOUNDATION UNDER THE BASE FLOOD ELEVATION SHALL COMPLY W/ R322.2.2 OF THE FLORIDA BUILDING CODE & WILL PROVIDE FLOOD VENTS TO MEET THESE REQUIREMENTS.

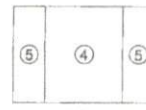
STEEL

ANGLES, PLATES, AND CHANNELS 36 KSI, ASTM A36
SQUARE AND RECTANGULAR HSS 48 KSI, ASTM A500 GRADE B.
BOLTS @ RIDGE (PEAK) (2) GRADE A5, 5/8" W/ A325 BOLTS
(4) FLAT & (2) LOCK WASHERS
BOLTS @ TRUSS TO POST CONN. (2) 5/8" X 1/2" CARRIAGE BOLTS &
(4) 2"x2"x1/8" FLAT & LOCK WASHERS
WELDING ELECTRODES E70XX
(ALL WELDS ARE FULL PENETRATION WELDS U.N.O.)

WOOD

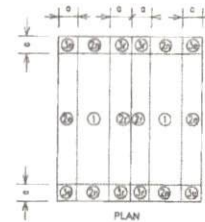
2x8 AND SMALLER SYP NO. 2 OR BETTER
MINIMUM DESIGN VALUES
Fb 1,500 PSI
Ft 825 PSI
Fv 175 PSI
Fc⊥ 565 PSI
Fcll 1,600 PSI
E 1,600,000 PSI
Emin 580,000 PSI

WIND ZONES



WALL

*3'-0" EDGE DISTANCE



PLAN

Gable and Flat Roofs 7° < θ < 45°

6x6, 8x8 OR 10x10 WD POST TREATED SOUTHERN YELLOW PINE (SYP)
MINIMUM DESIGN VALUES
Fb 1,350 PSI
E 1,500,000 PSI

ROOF & WALL SHEATHING

ROOF METAL PANELS SHALL BE 26 GA. x 3'-0" WIDE w/ 5 RIBS (RECOMMENDED)
OR 29 GA. x 3'-0" WIDE w/ 5 RIBS

12'-50" HSS Tube Truss Drawings for: Blackwater Truss Systems 8136 Hwy 87 N. Milton, FL 32570	DATE
	DESCRIPTION
REV	

JOB NUMBER: 22007-
DRAWN BY: DA
CHECKED BY: MK
PLOT DATE: 01/17/20

SHEET TITLE

GENERAL NOTES

DRAWING NUMBER

S100



BLACKWATER
TRUSS SYSTEMS

8736 Hwy 87 N ❖

Milton, FL 32570 ❖

(850-623-1414)

Date: 5-27-2022

To our Dealers, Building officials and Customers:

(Areas covered) Florida, South Florida, Alabama, Georgia, South Carolina, North Carolina, Virginia, Mississippi, Louisiana, Tennessee, Kentucky.

Our Square Tube as well as our Angle Iron Trusses (1.5" & 2" Trusses), up to 50' are Engineered to be placed on 12' bay spacings, although we recommend anything over 40' be placed on 10' bay spacings.

This is based on 150 MPH wind loads and 10' to 14' eve heights.

Ken Smith



Blackwater Truss Systems

Date: 8-26-2022

E-MAIL STAMPED ENGINEER
CENTRAL PERM

HARNETT. ORG

KEN@BLACKWATERTRUSS.COM

DETAILS

NAME

ADDRESS