

1 FOUNDATION PLAN
SCALE: 1/4" = 1'-0"

CONSTRUCTION SUMMARY
 LOCATION: 145 BROWN RD, LILLINGTON, NC 27546 (HARNETT CO.)
 SQUARE FOOTAGE: ENCLOSED BARN: 1800 SQ. FT.

DESIGN CODES:
 2018 NORTH CAROLINA STATE BUILDING CODE - AGRICULTURAL STRUCTURE

DESIGN LOADS:
 THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED WITH THE FOLLOWING SUPERIMPOSED LOADINGS:

DESIGN LIVE LOADS:
 ROOF: 20 psf
 WIND: BASIC WIND SPEED (3 SEC GUST): 100 mph (ADJUSTED)
 EXPOSURE CATEGORY: B
 IMPORTANCE FACTOR: 1.0
 BRACED WALL METHOD: POST/FRAME (POLE BARN)

FOUNDATIONS:
 FOUNDATIONS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 psf. ON EXISTING SOILS. BEFORE CONSTRUCTION COMMENCES, SOIL BEARING CAPACITY SHALL BE VERIFIED BY A SUBSURFACE INVESTIGATION.

CONCRETE MATERIAL SPECIFICATIONS:
 CONCRETE COMPRESSIVE STRENGTH: 3000 psi (28 DAY STRENGTH)
 CEMENT: TYPE III
 AIR ENTRAINMENT: 5% - 7% IF EXPOSED TO WEATHER OR EARTH
 REINFORCING STEEL: ASTM A615, GRADE 60
 WELDED WIRE FABRIC: ASTM A185
 ANCHOR BOLTS: GRADE A36
 CLASS B SPLICE LENGTH: GREATER OF 48 BAR DIAMETERS OR 24 INCHES

WOOD MATERIAL SPECIFICATIONS:
 STRUCTURAL WOOD:
 SPRUCE-PINE-FIR (SPF) OR SOUTHERN YELLOW PINE (SYP) NO. 2 OR BETTER.
 MODULUS OF ELASTICITY (E): 1,300,000 PSI
 BENDING (F_b): 850 PSI
 SHEAR (F_v): 75 PSI
 PRESSURE TREATING: AITC-109
 WOOD FASTENERS: 2003 I.B.C. (TABLE 2304.9.1) U.N.O.
 LVL BEAMS:
 MODULUS OF ELASTICITY (E): 1,900,000 PSI
 BENDING (F_b): 2,600 PSI
 SHEAR (F_v): 285 PSI

HMHendrick Enterprises, INC.
 913 Bentcreek Ct, Sanford, NC 27330
 (919) 427-0501



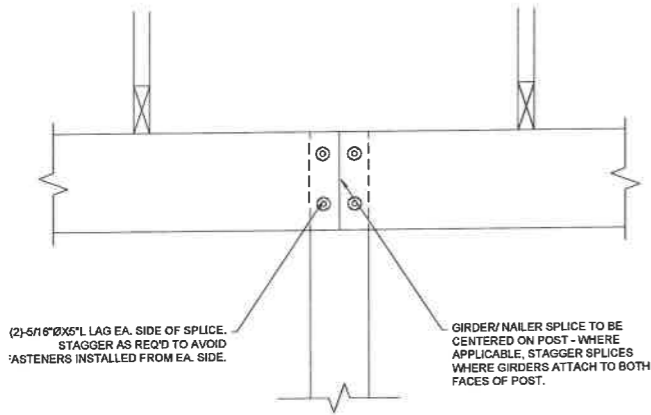
Digitally signed by Heath M. Hendrick
 Date: 2022.08.22 14:18:30 -0400

Project Name
 145 BROWN ROAD
 AGRICULTURAL USE POLE BARN
 LILLINGTON, NORTH CAROLINA

Sheet Title
 FOUNDATION PLAN

DESIGNED BY:	HMH	
DRAWN BY:	HMH	
APPROVED BY:	HMH	
PROJECT #:		
DATE:	08/09/22	
No.	Revision	Date

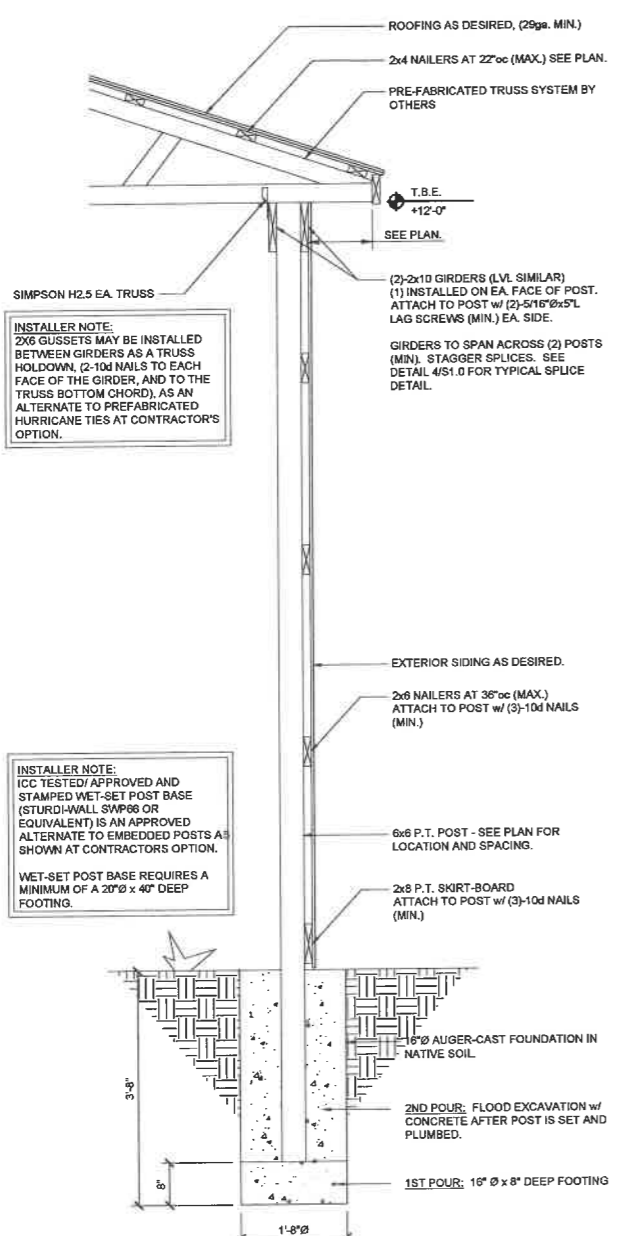
Sheet
S1.0



(2)-5/16" x 5/8" LAG EA. SIDE OF SPLICE. STAGGER AS REQ'D TO AVOID FASTENERS INSTALLED FROM EA. SIDE.

GIRDER/ NAILER SPLICE TO BE CENTERED ON POST - WHERE APPLICABLE, STAGGER SPLICES WHERE GIRDERS ATTACH TO BOTH FACES OF POST.

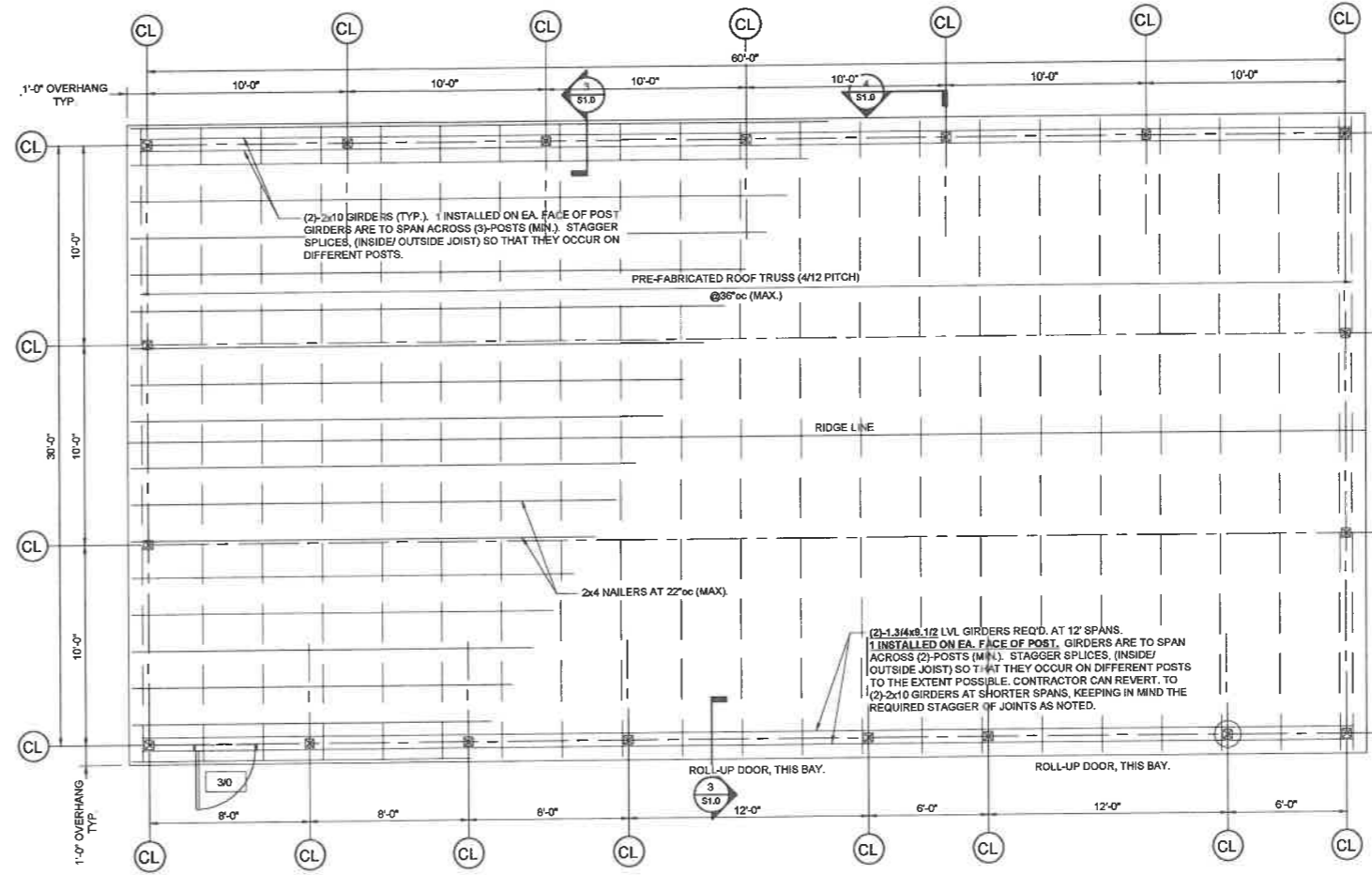
4 GIRDER SPLICE DETAIL
SCALE: 1-1/2" = 1'-0"



INSTALLER NOTE:
2X6 GUSSETS MAY BE INSTALLED BETWEEN GIRDERS AS A TRUSS HOLD-DOWN, (2-10d NAILS TO EACH FACE OF THE GIRDER, AND TO THE TRUSS BOTTOM CHORD), AS AN ALTERNATE TO PREFABRICATED HURRICANE TIES AT CONTRACTOR'S OPTION.

INSTALLER NOTE:
ICC TESTED/ APPROVED AND STAMPED WET-SET POST BASE (STURDI-WALL SWP88 OR EQUIVALENT) IS AN APPROVED ALTERNATE TO EMBEDDED POSTS AS SHOWN AT CONTRACTOR'S OPTION.
WET-SET POST BASE REQUIRES A MINIMUM OF A 2'0" x 4' DEEP FOOTING.

3 SECTION - POLE BARN WALL FRAMING
SCALE: 3/4" = 1'-0"



2 ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

HMHendrick Enterprises, INC.
913 Bentcreek Ct. Sanford, NC 27330
(919) 427-0501



145 BROWN ROAD
AGRICULTURAL USE POLE BARN
LILLINGTON, NORTH CAROLINA

FRAMING PLAN AND DETAILS

DESIGNED BY: HMH
DRAWN BY: HMH
APPROVED BY: HMH
PROJECT #: -
DATE: 08/09/22

No.	Revision	Date

Sheet **S1.1**

Comments of Instruments of Service: All reports, plans, specifications, computer files, field data, notes and instruments prepared by the design professional as instruments of service shall remain the property of the design professional. All common law, statutory and other reserved rights including the copyright therein.