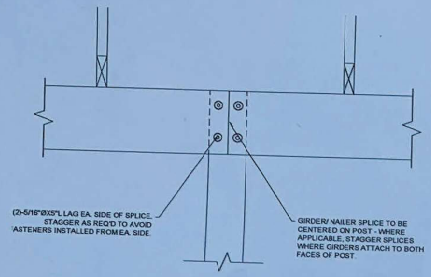
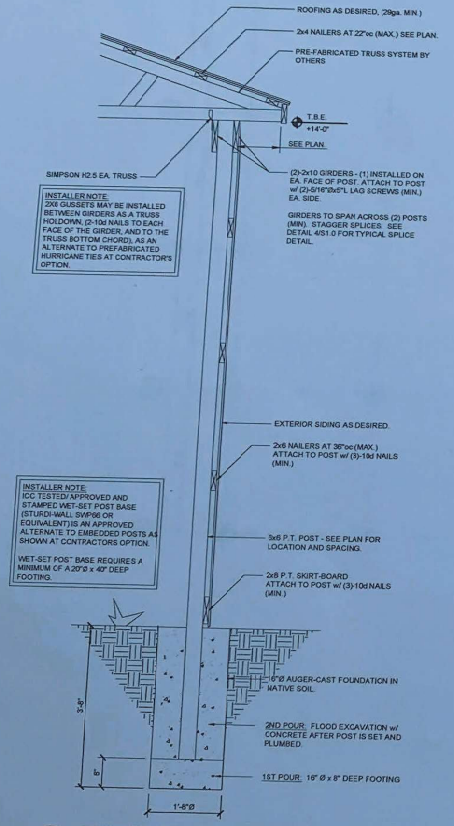
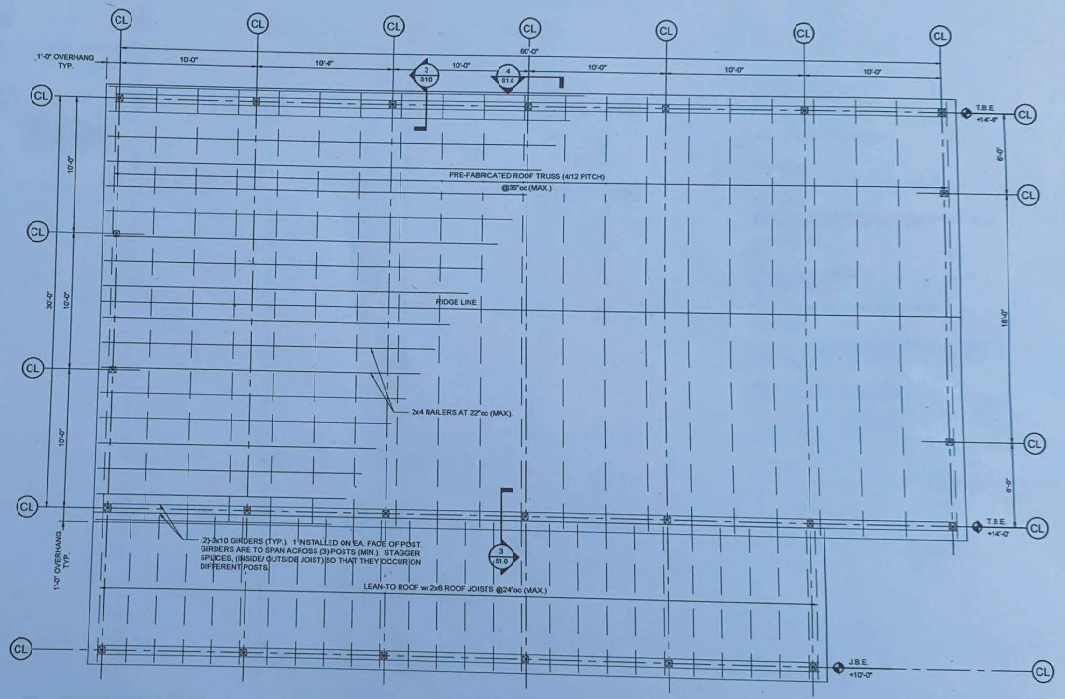


4 GIRDER SPLICE DETAIL
SCALE: 1-1/2" = 1'-0"



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



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

HMHendrick Enterprises, INC.
612 Valley Rd. Sanford, NC 27330
(919) 427-0501

NORTH CAROLINA PROFESSIONAL SEAL 036655 ENGINEER NATH M. HENDRICK

Project Name
5951 COKESBURY RD
AGRICULTURAL USE POLE BARN
FUQUAY-VARINA, NORTH CAROLINA

Sheet Title
FRAMING PLAN AND DETAILS

DESIGNED BY:	HMH
DRAWN BY:	HMH
APPROVED BY:	HMH
PROJECT #:	-
DATE:	08/16/21

No.	Revision	Date

Sheet
S1.1

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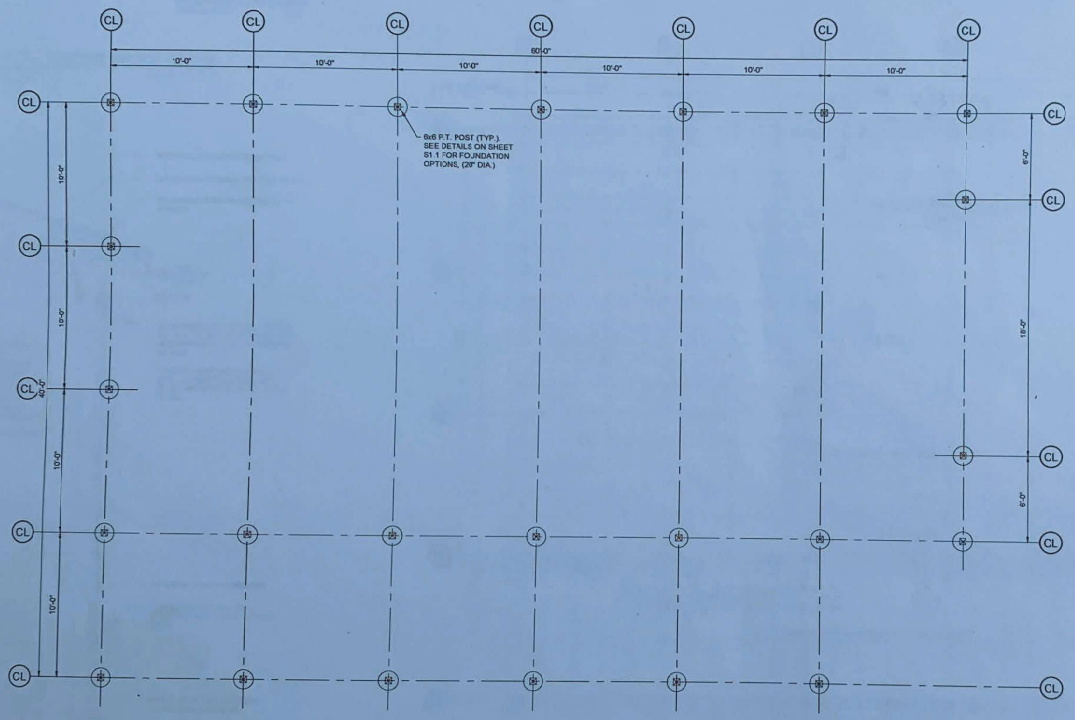

1 FOUNDATION PLAN
SCALE: 1/4" = 1'0"

CONSTRUCTION SUMMARY

LOCATION: 5951 COKESBURY RD, FUQUAY-VARINA, NC 27526 (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
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 I/II
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.
MODULAS OF ELASTICITY (E) 1,300,000 PSI
BENDING (Fb) 850 PSI
SHEAR (Fv) 75 PSI
PRESSURE TREATING: AITC-109
WOOD FASTENERS: 2030 I.B.C. (TABLE 2304.9.1) U.N.C.
LVL BEAMS:
MODULAS OF ELASTICITY (E) 1,900,000 PSI
BENDING (Fb) 2,600 PSI
SHEAR (Fv) 285 PSI

HMHendrick Enterprises, INC.
612 Valley Rd. Sanford, NC 27330
(919) 427-0501

NORTH CAROLINA PROFESSIONAL SEAL 039165 ENGINEER H. M. HENDRICK

Project Name
5951 COKESBURY RD
AGRICULTURAL USE POLE BARN
FUQUAY-VARINA, NORTH CAROLINA

Sheet Title
FOUNDATION PLAN

DESIGNED BY:	HMH
DRAWN BY:	HMH
APPROVED BY:	HMH
PROJECT #:	-
DATE:	08/16/21

No.	Revision	Date

Sheet
S1.0

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