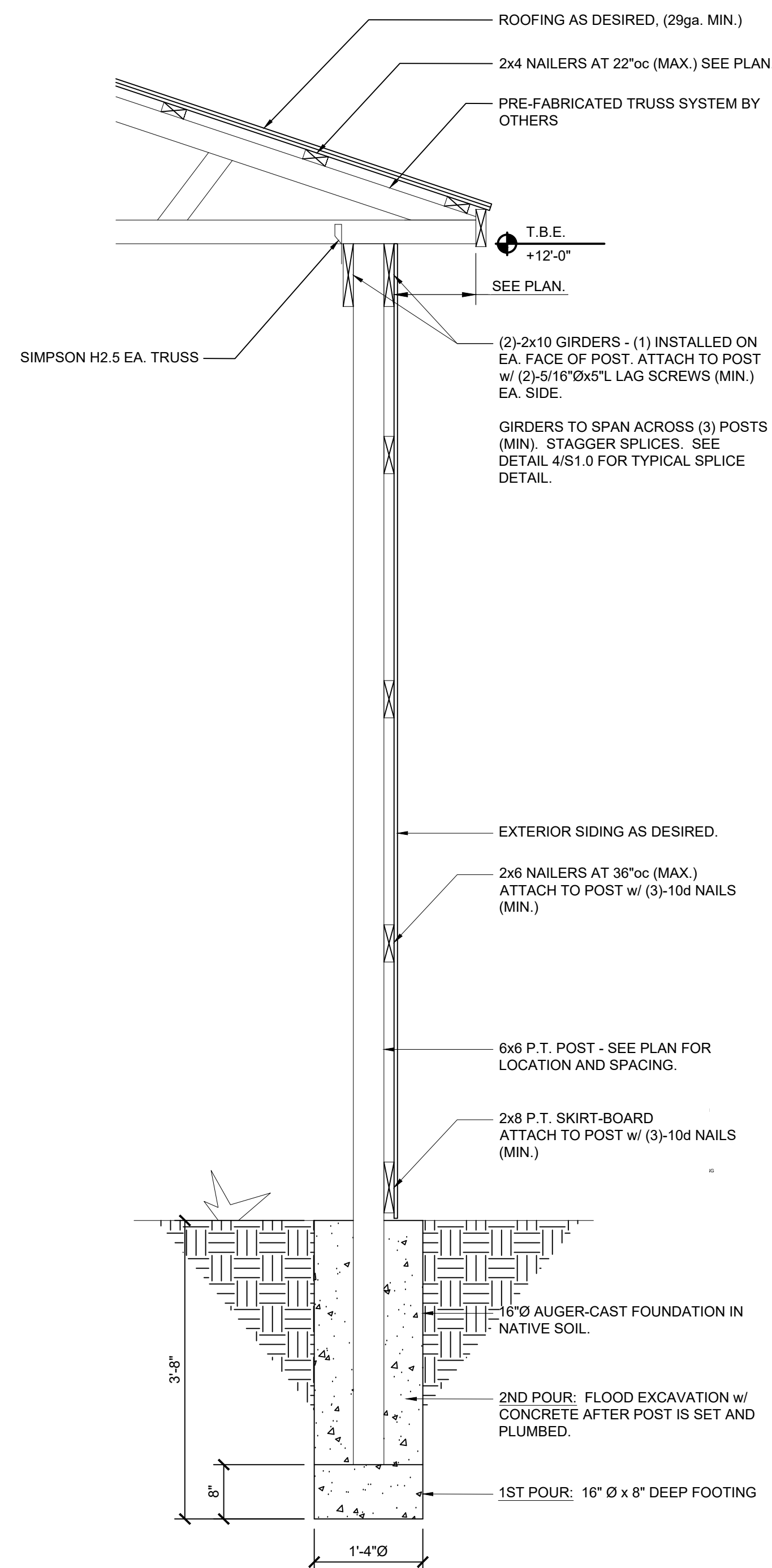
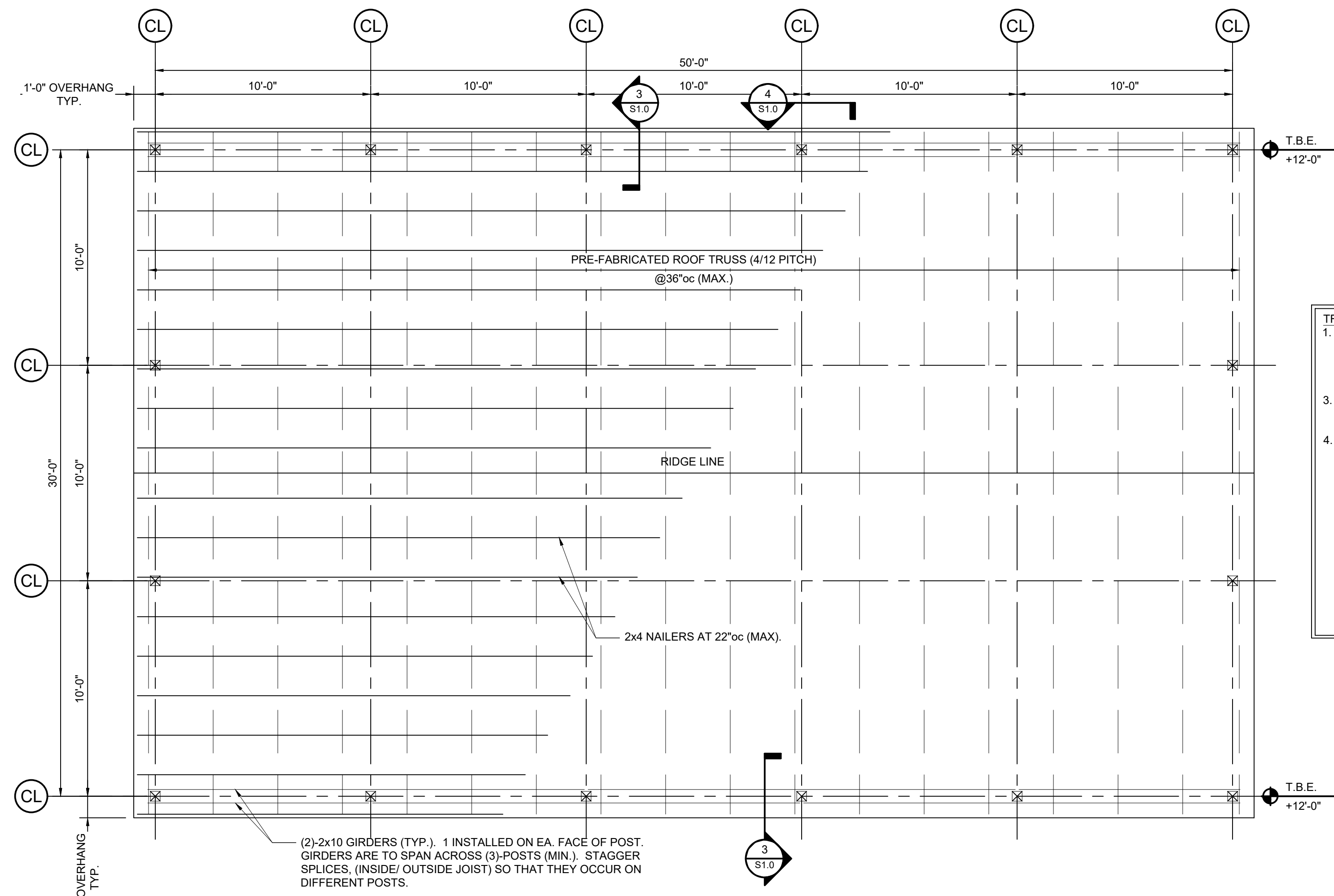


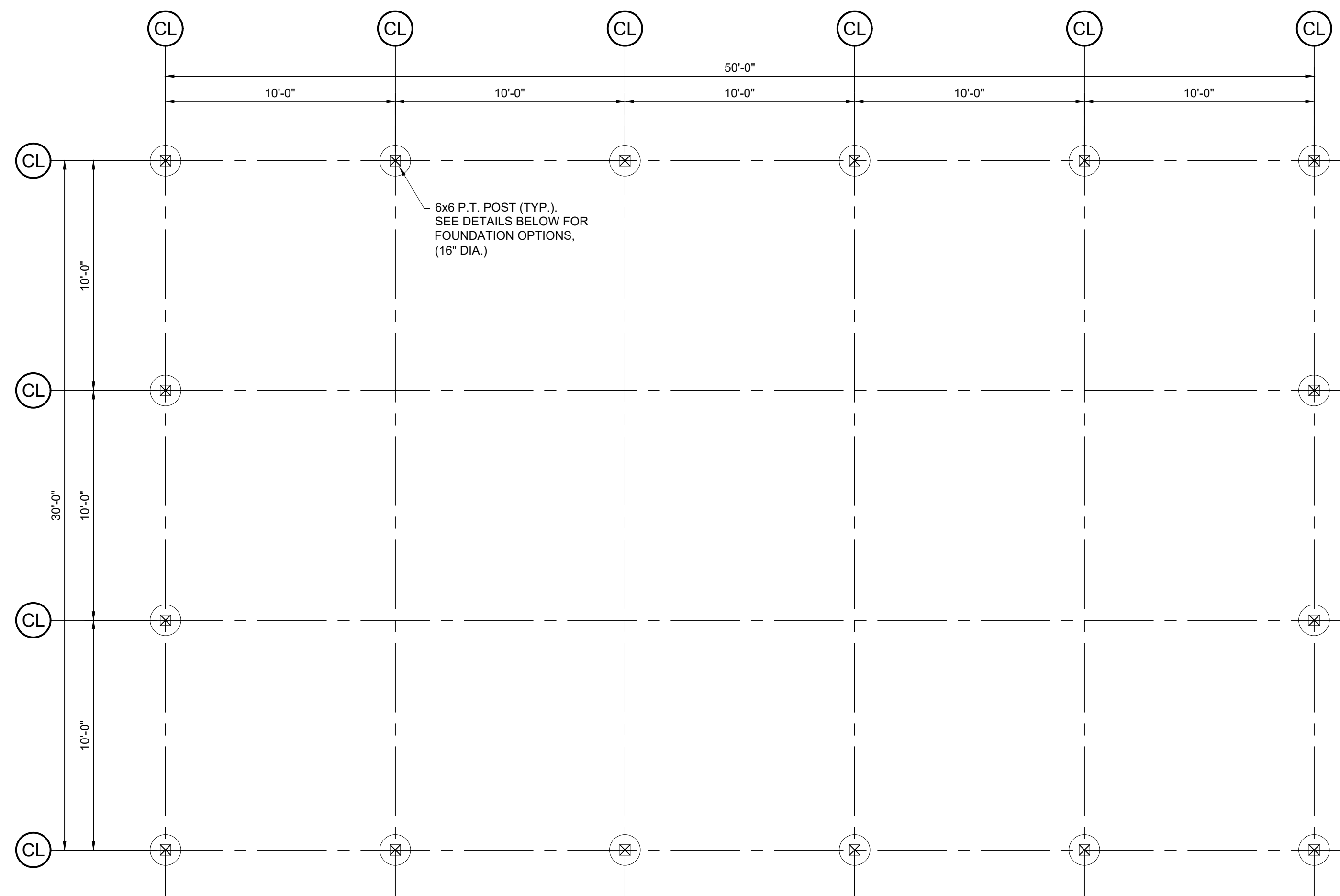
**4 GIRDER SPLICE DETAIL**  
SCALE: 1-1/2" = 1'-0"



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



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



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

**TRUSS DESIGN NOTES:**

- TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR FINAL TRUSS DESIGN, TO INCLUDE CALCULATIONS, LAYOUT, AND ALL NECESSARY BRACING AND BRIDGING DETAILS AS REQ'D. FOR PERMANENT STABILITY OF TRUSS SYSTEM.
- TRUSSES AND THEIR COMPONENTS ARE TO BE DESIGNED TO RESIST THE COMPONENT AND CLADDING WIND PRESSURES OUTLINED ON SHEET S1.0.
- TRUSSES ARE TO BE DESIGNED TO SUPPORT THE FOLLOWING SUPERIMPOSED LOADING UNLESS NOTED OTHERWISE:  
 TOP CHORD LL: 20 PSF  
 TOP CHORD DL: 10 PSF\*  
 BOTTOM CHORD DL: 5 PSF\*  
  
 NET UPLIFT: 3.8 PSF

\*DEAD LOADS ARE CONSIDERED TO BE SUPERIMPOSED, AND DO NOT INCLUDE TRUSS SELF-WEIGHT

**CONSTRUCTION SUMMARY**

LOCATION: 103 BROWN ROAD, LILLINGTON, NC 27546 (HARNETT CO.)

SQUARE FOOTAGE: ENCLOSED BARN: 1500 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

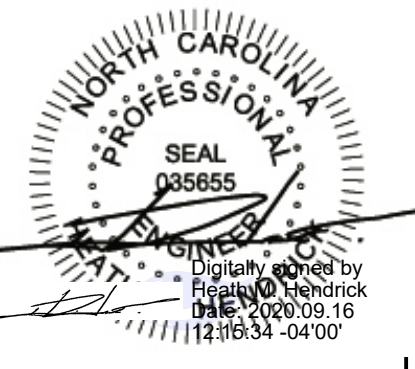
BRACED WALL METHOD: POST/FRAME (POLE BARN)

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 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 (Fb): 850 PSI  
SHEAR (Fv): 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 (Fb): 2,500 PSI  
SHEAR (Fv): 285 PSI

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



103 BROWN ROAD  
AGRICULTURAL USE POLE BARN  
LILLINGTON, NORTH CAROLINA

**FOUNDATION & FRAMING PLANS**

DESIGNED BY:	HMH
DRAWN BY:	HMH
APPROVED BY:	HMH
PROJECT #:	-
DATE:	09/16/20

No.	Revision	Date

Sheet **S1.0**

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