

POLE BUILDING PERMIT INFORMATION

Permit may take up to 10 working days to process

Permit Requirements:

Building permits are required for construction of Pole Buildings. All Pole Buildings must meet the land use requirements of the zoning ordinance. If the property is located in the Shore land District (i.e. within 1000 feet of a lake, 700 feet of the Rum River, or 300 feet of a creek, or stream), a certificate of compliance will be required on the existing sewage treatment system. If the existing system is found to be in noncompliance, you will be required to install a new conforming system (Isanti County Zoning Ordinance, Section 23, and Subdivision 5).

Information Necessary When Applying For a Building Permit

1. Permit Application
2. 2-Detailed Pole Building Plans, drawings showing proposed designs and materials. Drawings shall be drawn to scale and shall include the following information:
 - Floor Plan- indicating proposed size, window and door openings, header sizes over openings, size, spacing and direction of truss or rafter materials.
 - Cross Section- indicating footage and floor design, wall and roof construction and materials used.
 - Elevations- front, rear, and side views, indicating height of structure and overhang.
3. If truss roof system is to be used, submit 2 copies of stamped pre-engineered truss designs from manufacturer; (see sample).
4. If large doors are planned, please provide header type and size.
5. Pole Buildings used strictly for agricultural storage only require a \$100.00 fee.
6. A site plan shall show the distances from the Pole Building to the property lines, buildings on the same property, septic systems, wetlands, rivers or lakes.

Building Code Requirements:

1. **Foundation**- if the truss is up to 30 feet wide, the footings shall be minimum 4 to 6 inches thick and the diameter shall be at least 16 inches or wider precast or concrete pad. Truss width over 30 feet shall have minimum of 8 inch thick footings or 16 inch round cookies with 2-3 60 lbs bags of dry mix concrete below the cookies, with the minimum size footing holes as stated here:
 - Truss 36 feet wide or less and footing pads are 8 feet on center = 20 inch diameter footings.
 - Truss 40 feet wide or less and footing pads are 8 feet on center = 22 inch diameter footings.
 - Truss 50 feet wide or less and footing pads are 8 feet on center = 24 inch diameter footings.
2. **Poles**- minimum size 6x6 treated to .60 retention. (Proof of treatment required).
3. **Wall Framing**- 2x4 wall girts are required 24 inches on center, horizontal outside the poles, or 2x6 girts flat between poles 24 inches on center. A treated 2x6 splashboard is required at the bottom of the wall (at grade) to anchor outer sheet metal. Wind bracing is required in all corners of the building or provide appropriate other wall brace design.
4. **Sides/Roofing**- fasten approved materials according to manufacturer's specifications. Roof Design: 35 psi snow load at the roof.
5. **Headers**- show all header sizes on plans for approval by Building Official.

NOTE: POLE BUILDINGS FOR COMMERCIAL USE MAY REQUIRE A CONDITIONAL USE PERMIT
NOTE: EXCEPT FOR AGRICULTURAL BUILDINGS, ALL FRAMED POLE BUILDINGS OVER 2,500
SQUARE FEET OR 1000 SQUARE FEET WITH OVER 14 FOOT SIDEWALLS WILL REQUIRE DESIGN
BY REGISTERED MN STRUCTURAL ENGINEER.

The purpose of the plan review is to inform you of the potential problems, so the more information shown, the more likely your project will run smoothly.

CONSTRUCTION SHALL NOT BEGIN UNTIL A PERMIT HAS BEEN ISSUED!

Required Inspections---Construction shall not begin until permit has been issued.

Footings: Inspection to be made after the footing has been excavated, prior to the placement of concrete or premanufactured pad.

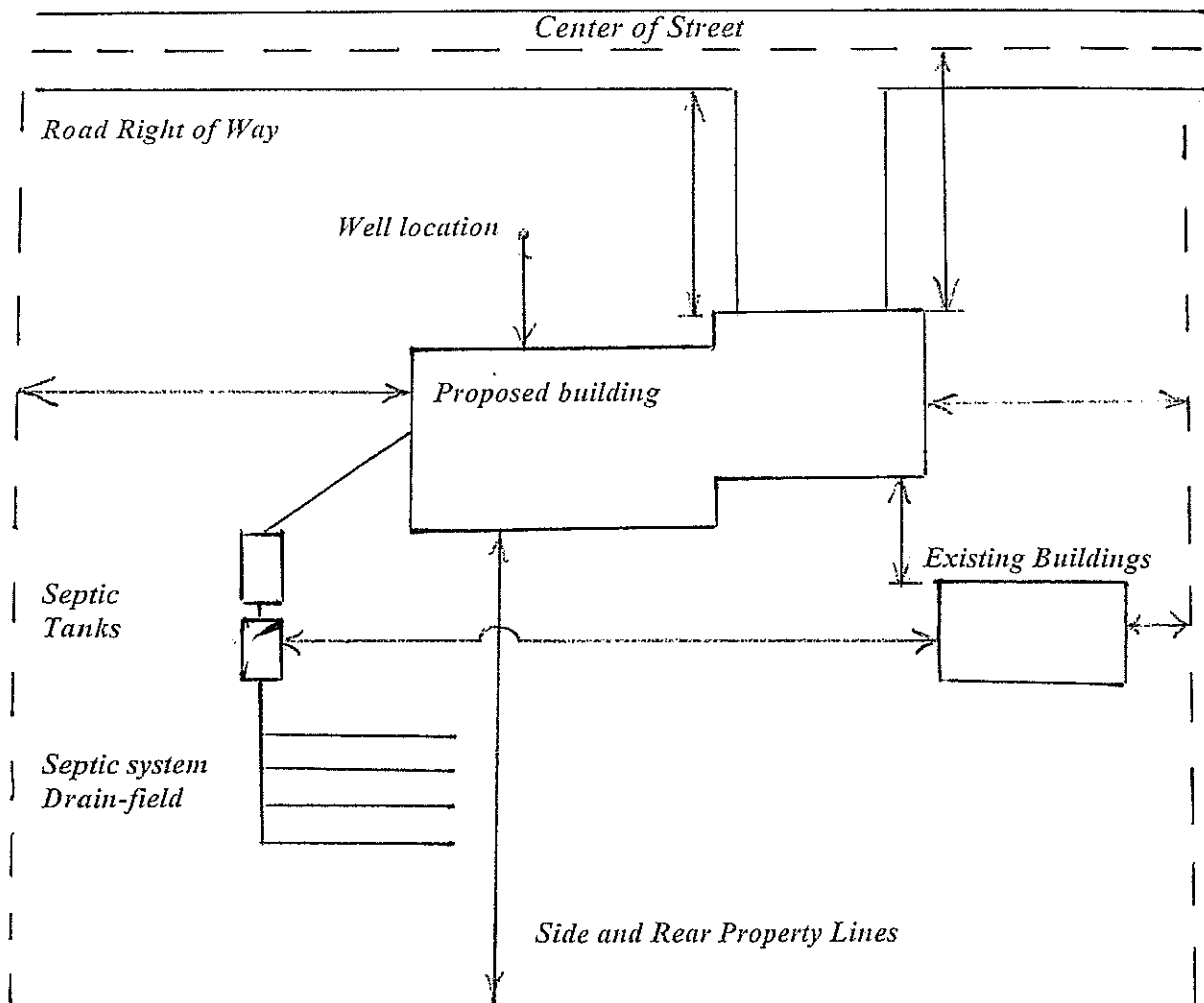
Framing: to be made after all structural components are in place and the exterior coverings are installed.

Final: To be made upon completion of building and final grade work is complete.

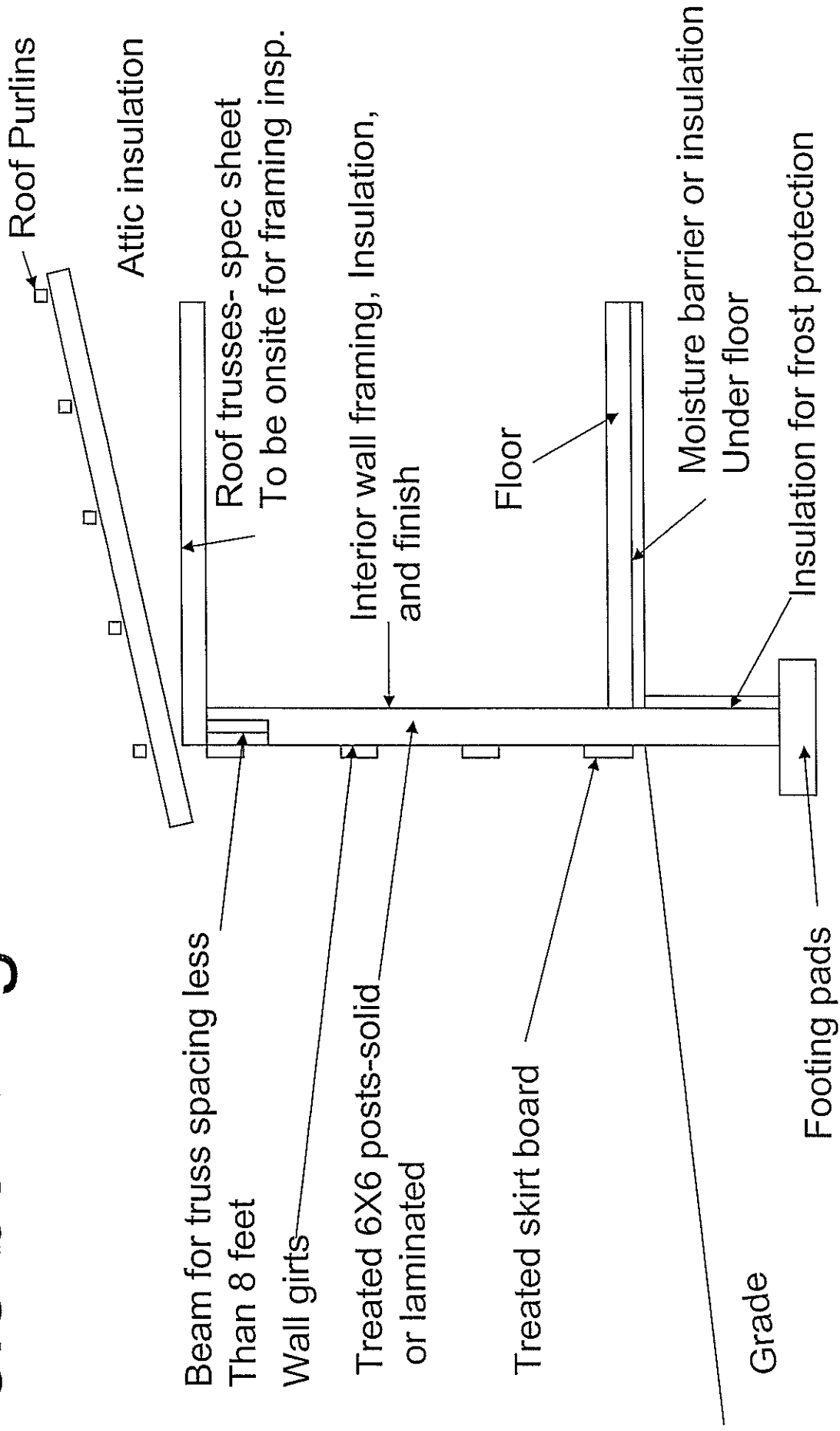
Electrical: Contact Gene Boyle, State Electrical inspector at 763-633-9148.

24 HOUR NOTICE REQUIRED FOR ALL INSPECTIONS

Sample site plan for "Illustrative purposes only"



Pole building wall section

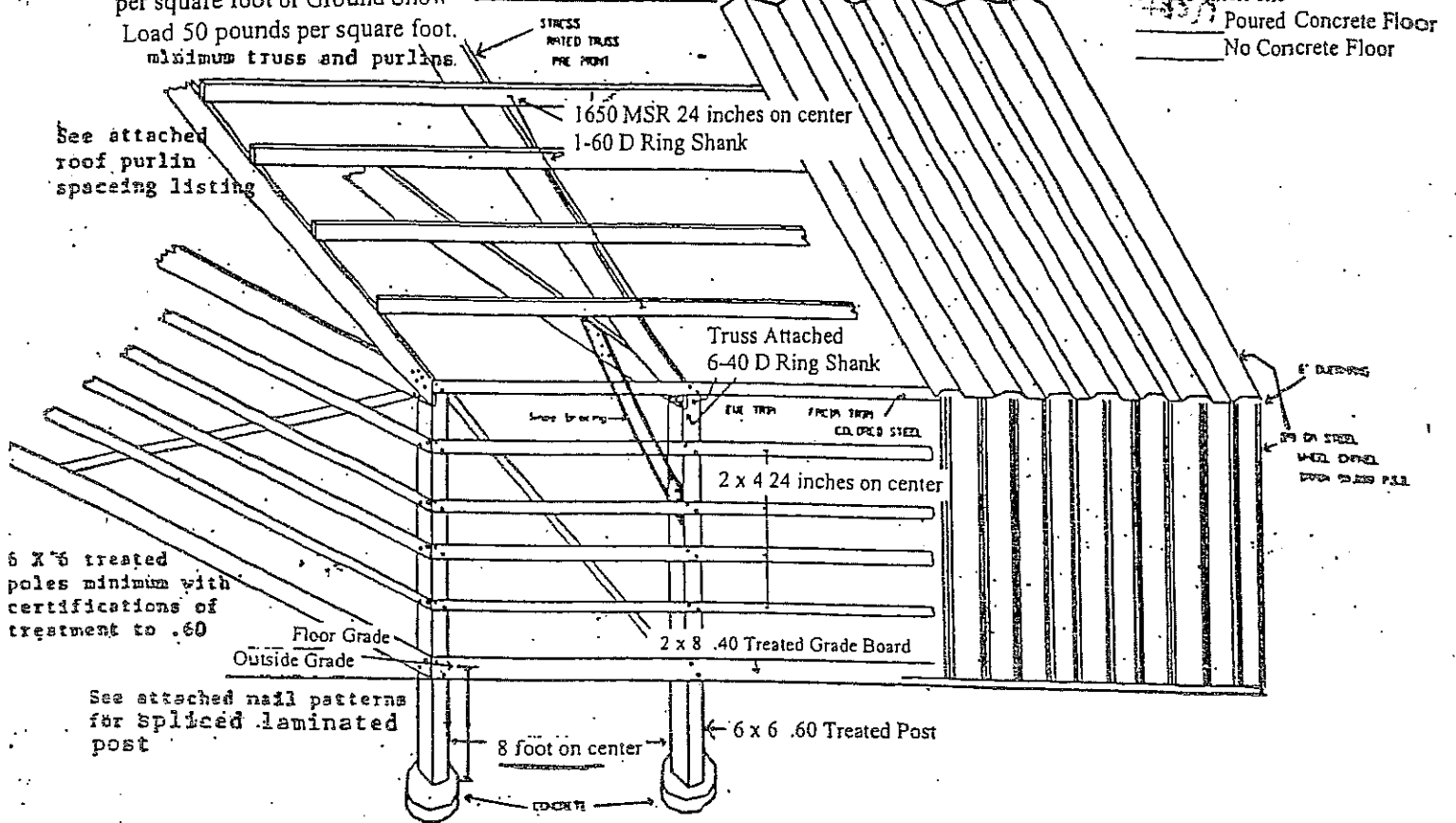


All items should be on plans showing size and dimensions, and locations if applicable.

Roof Snow Load Design: 35 pounds per square foot or Ground Snow Load 50 pounds per square foot, minimum truss and purlins.

SAMPLE PLAN ONLY

Please check one
 Poured Concrete Floor
 No Concrete Floor



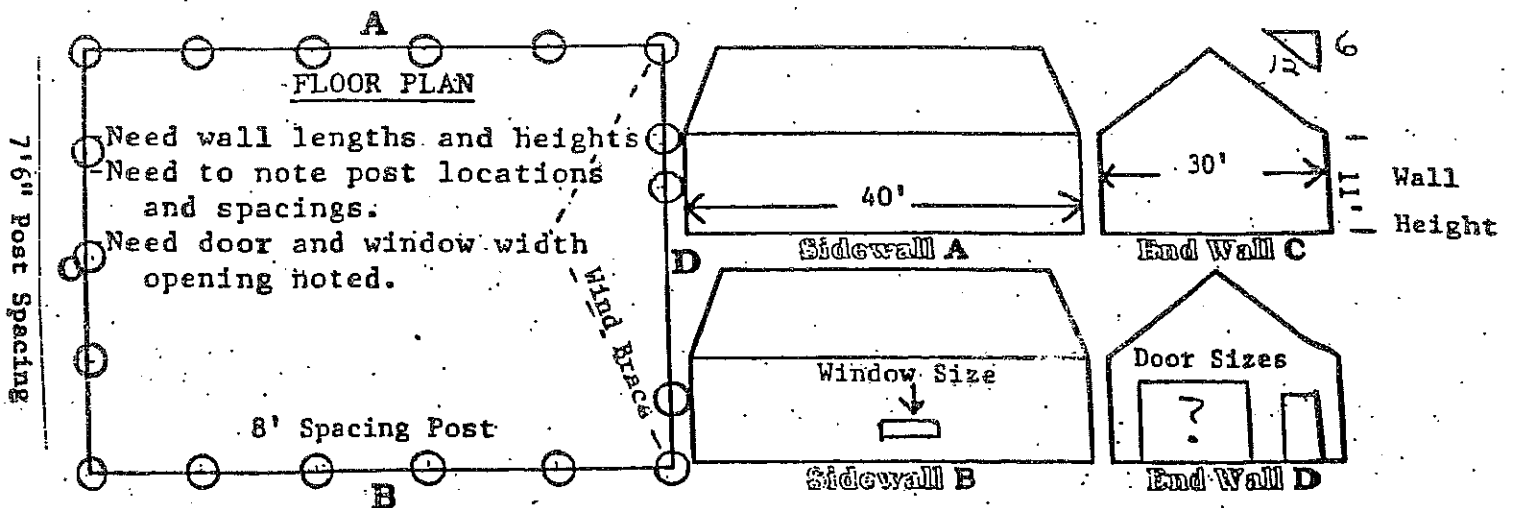
See attached roof purlin spacing listing

6 x 6 treated poles minimum with certifications of treatment to .60

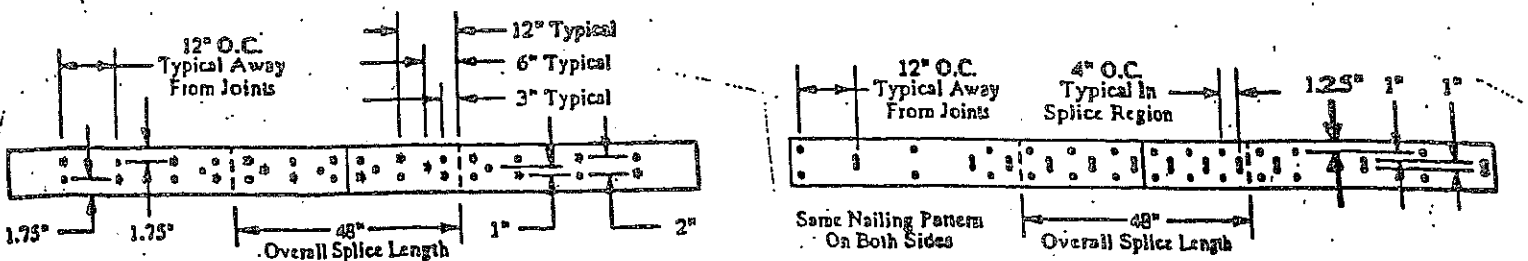
See attached nail patterns for spliced laminated post

Minimum Footing Depth 54 inches

Foundation widths up to 30 feet will accept 4-6 inch thick, 16 inch or wider precast pads. Widths over 30 feet need design for size and depth for poured concrete.



Acceptable Nailing Patterns for Laminated Posts



Roof Purlin Spacing for 35 lb./sq. ft. snow load

Pole Spacing	6' - 0"	7' - 0"	8' - 0"	9' - 0"
SPF # 2 2 X 4	20"	16"	14"	
SPF # 2 2 X 6	24"	24"	24"	22"
MSR 1650 2 X 4	30"	24"	24"	
MSR 1650 2 X 6	24"	24"	24"	24"

This table is to be used for plan check purposes only. The assumed dead load is 4 lb. /sq. ft. with steel roof.

Roof Snow Load Design: 35 pounds per square foot or Ground Snow Load 50 pounds per square foot. SAMPLE PRE-ENGINEERED TRUSS DESIGN

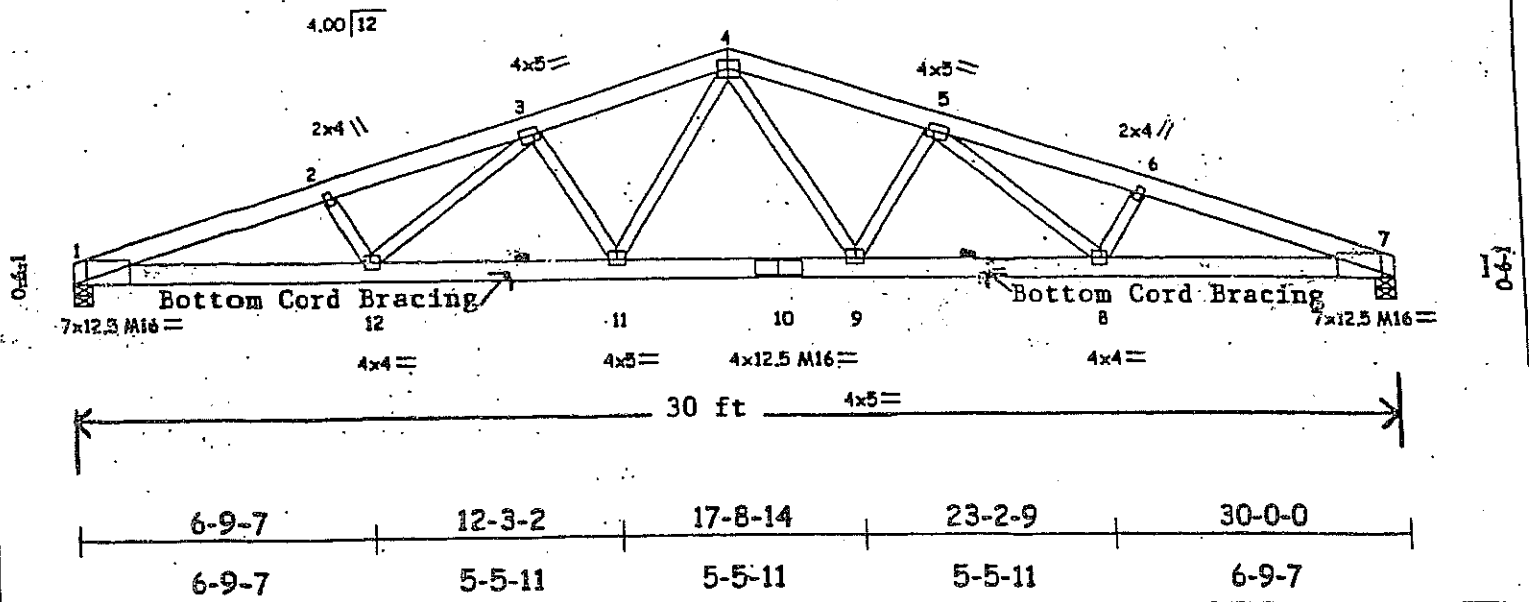


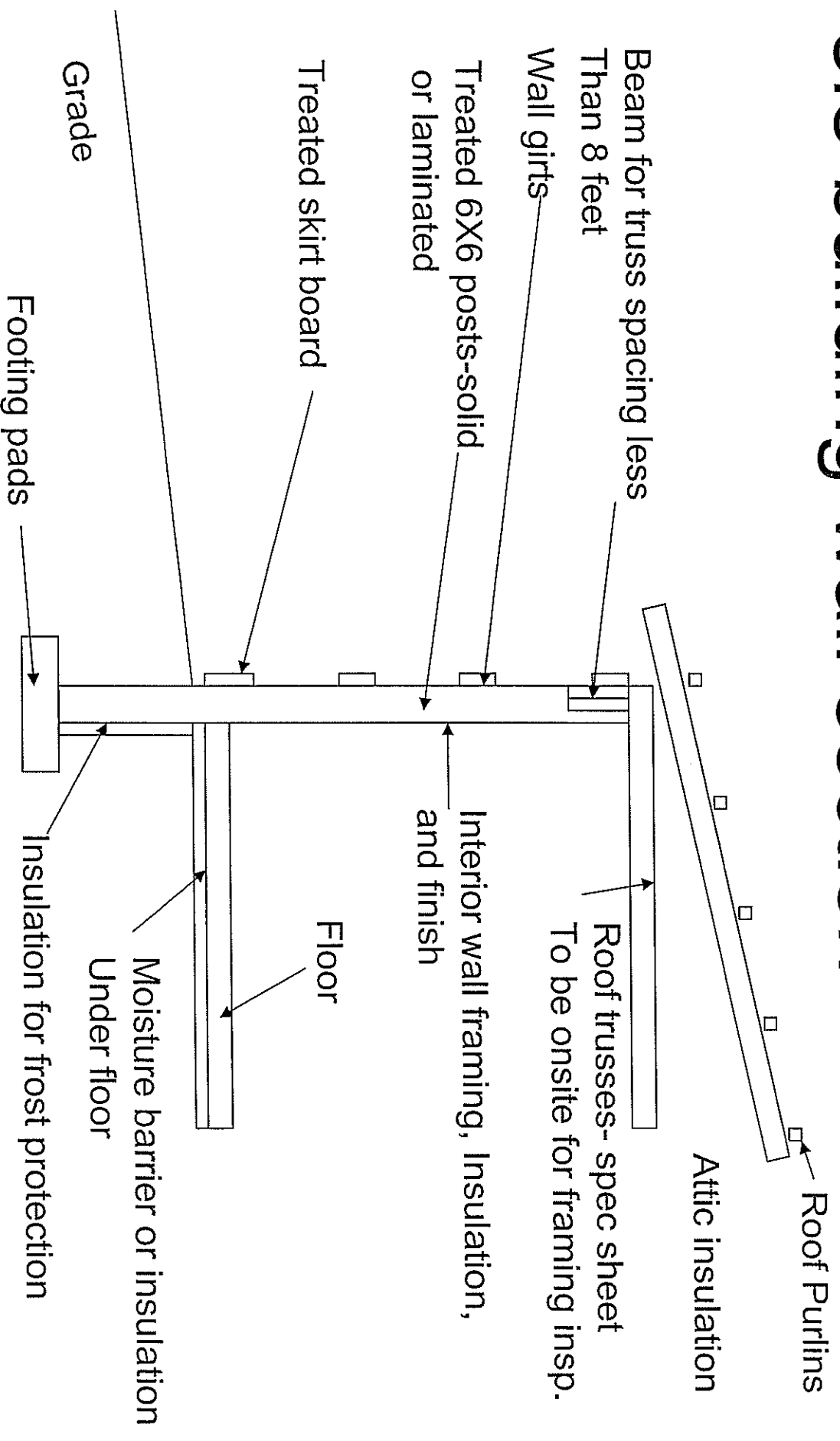
Plate Offsets (X,Y): [1:0-3-9,edge], [3:0-1-4,0-2-0], [4:0-3-0,0-2-4], [5:0-1-4,0-2-0], [7:0-3-9,edge], [8:0-1-8,0-2-0], [9:0-2-4,0-1-8], [11:0-2-4,0-1-8], [12:0-1-8,0-2-0]

LOADING (bsf)	SPACING	CSI	DEPL	PLATES	GRIP
YCL :35	8-0-0	TC 0.94	(in) (loc) V/defl	M20	197/144
TCDL 5.0	Plates Increase L15	BC 0.70	Vert(LL) -0.51 11 >697	M16	174/126
SCL 0.0	Lumber Increase L15	WB 0.94	Vert(TL) -0.69 9-11 >516		
BCCL 5.0	Rep Stress Incr NO		Horz(TL) 0.21 7 n/a		
	Code USC/ANSI95		Int LC LL Min V/defl = 3&D		Weight: 180 lb

LUMBER
TOP CHORD 2 X 6 SYP 2400F 2.0E
BOT CHORD 2 X 6 SYP 2400F 2.0E

BRACING
TOP CHORD 2-0-0 on center purlin spacing (2-1-11 max.)
BOT CHORD 100000 on center bracing.

Pole building wall section



All items should be on plans showing size and dimensions, and locations if applicable.