POLE BARN

COOPERATIVE EXTENSION WORK IN
AGRICULTURE & HOME ECONOMICS
UNIVERSITY OF ARKANSAS
DEPT. OF AGRICULTURAL ENGINEERING

PLAN NO. 545013
CORNER DETAIL
SCALE 1/8" = 1'-0"

2'-2"x8" TRACK SUPPORT
10D NAILS 12" OC. STAGGERED

2'-2"x8" TIE DOWNS

2'-2"x8" TRACK SUPPORT
10D NAILS 12" OC. STAGGERED

2'-2"x8" COLLAR BEAM; 5-16D NAILS EACH RAFTER

2'-2"x10" RAFTERS, 7'-0" LONG, TOENAILED AT RIDGE WITH 2 16D & 1-30D NAILS

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2'-2"x8" COLLAR BEAM; 5-16D NAILS EACH RAFTER

2'-2"x10" RAFTERS, 7'-0" LONG, TOENAILED AT RIDGE WITH 2 16D & 1-30D NAILS

2'-2"x2" PURLING NAILED AT
LAPS WITH 2-16D NAILS &
TOENAILED TO RAFTERS WITH
2-10D NAILS

2'-2"x2" PURLING NAILED AT
LAPS WITH 2-16D NAILS &
TOENAILED TO RAFTERS WITH
2-10D NAILS

1"x6" BRACE NAILED TO
UNDER SIDE OF PURLING

2'-2"x2" TIE DOWNS

2'-2"x2" TRACK SUPPORT
10D NAILS 12" OC. STAGGERED

1"x6" BRACE NAILED TO
UNDER SIDE OF PURLING

2'-2"x2" TIE DOWNS

RIDGE DETAIL
SCALE 1/8" = 1'-0"

2'-2"x6" SCAB 4-30
NAILS EACH
SCAB TO POLE

EACH RAFTER NAILED TO
POLE & TO SCAB
WITH 2-30D NAILS

1"x6" SCAB
4-30 NAILS EACH
SCAB TO POLE

4'-0" MINIMUM

POLE BARN
DATE 6/24/54 DRAWN BY O.B.L
SHEET 2 OF 5
NOTE:
ROOFING: PURLIN SPACING NOT TO EXCEED 2'-0" FOR 1/2" x 2 1/2" CORRUGATED ALUM. OR 2 1/2" x 2 1/2" CORRUGATED GALVANIZED STEEL. SIDE LAP SHEETS AT LEAST 1" CORRUGATIONS. END MYLARS, MIN. USE 2 1/2" CORRUGATED RIDGE ROLL. LUMBER NOMINAL: ALLOWABLE FIBER STRESS = 1500 PSI FOR PURLINS, 1200 PSI FOR RAFTERS. IF METAL SIDING IS USED, NAILING Girts TO BE SPACED TO CONFORM TO MFG. DIRECTIONS.

2" x 6" PURLINS NAILED AT LAPS WITH 2-16D NAILS AND TOE-NAILED TO RAFTERS WITH 2-16D NAILS

2-2" x 10" RAFTERS, 16'-0" LONG

2-2" x 8" BLOCKS, 2-16D NAILS EACH RAFTER

4" TOP POLE 20'-0" LONG

4" TOP POLE 10'-0" LONG

2" x 10" FOR DOCK TRACK FOR DETAIL SEE SHEE I

DOOR 12'-0" x 12'-0"

VERTICAL SIDING

TREATED SPLASH BOARDS HEIGHT AS REQUIRED

CROSS SECTION SHOWING END WALL FRAMING (SCHEME 2.)
TO SUIT LOCATION (SCHEME 1)

1. FIRST HOLES
2. WATER BOARDS
3. CORNER POLES LINED UP, PLUMBED & TAMPED

ERECTION OF BALANCE OF POLES & RAFTERS

2" x 6" TEMPORARY GIRTS MAY BE REMOVED AFTER RAFTERS ARE IN PLACE

POLES, RAFTERS, PURLINS & GIRTS

PURLINS, GIRTS, ROOFING & SIDING

NOTE:
DESIGN CONDITIONS:
MAXIMUMS:
SNOw LOAD - 100 PS
WIND - 88 MPH, PER HAU

POLE BARN
DATE 6/14/52
DRAWN BY OBL
Hay Storage
20 Ton Baled per Bay
10 Ton Loose per Bay

Open to South or East

Floor Plan (Scheme 2)
Scale 1/8" = 1'-0"

Roof Framing Plan (Scheme 1)
Scale 1/8" = 1'-0"

Pole Barn
Date 6/24/54 Drawn by O.B.L.
Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans may be outdated and do not necessarily represent the most current technology, construction codes, or agricultural practices. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The University of Arkansas Cooperative Extension Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.