MWPS-72364

Open Front Calf Barn

Naturally ventilated resting area and group pens.

CAUTION!

Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access. Furthermore, any deviation from the given specifications may result in structural failure, property damage, and personal injury including loss of life.

WARRANTY DISCLAIMER

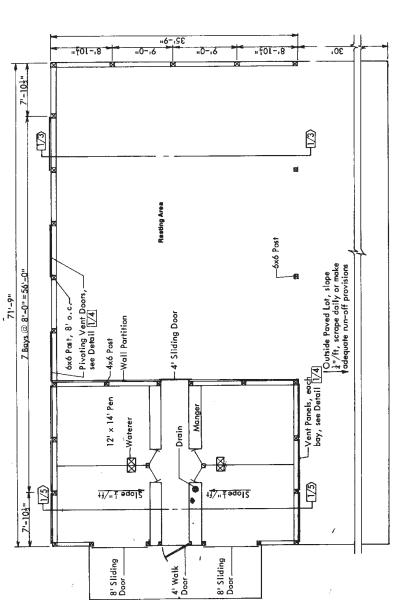
This plan provides conceptual information only. Neither midwest plan service nor any of the cooperating land-grant universities, or their respective agents or employees, have made, and do not hereby make, any representation, warranty or covenant with respect to the specifications in this plan. Additional professional services will be required to tailor this plan to your situation, including but not limited to: assurance of compliance with codes and regulations; review of specifications for materials and equipment; supervision of site selection, bid letting and construction; and provision for utilities, waste management, roads or other access.

MIDWEST PLAN SERVICE

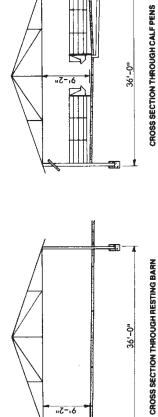
Cooperative Extension Work in Agriculture and Home Economics and Agricultural Experiment Stations of North Central Region - USDA Cooperating

> Open Front Calf Barn Naturally Ventilated

MIDWEST PLAN NO. 72364



FLOOR PLAN-1/1



36'-0"

Preferred Lumber Specifications Wall Girts 2x6 No. 2 (Doug Fir or Southern Pine)

Trusses, Headers, Top Girts
No. 1 or 1500 frachine rated (Doug Fir or
Southern Pine)
Poets and Splassboards
Pressure Pinestractive Treated (Southern Pine
Pressure Pinestractive Treated (Southern Pine
or equiv.) Creacede 10 pcf. Paritad-55 pcf.
ACA or CA (Figs A or B)+0.50 pcf retention
Used Root Sheathing
Use C-C Ext. unsanded

Attenuete Lumber Specifications
2x6 Girts (no. 2 hem-Fir)
Trussee (in 1 hem-Fir)
See Truss Page
Posts Round vs Sawn)
Diameter
Diameter

OPEN FRONT CALF BARN
Naturally Ventilated

Description
Floor Plan
Roof Sheathing Defaul
Roof Sheathing Defaul
Roof Sheathing Defaul
Roof Bood Apron
Resting Area Cross Section
Scilding Door Apron
Resting Area Cross Section
Endwall Defauls
Vent Door Defauls
Siding Door Defauls
Siding Door Defauls
Gaif Per Cox Section
16 Grider Defauls
Manage Defaul
Welt Cox Or Details
Truss Defauls

- Page No. Where Detail is found

Section

Section & Detail Indicator

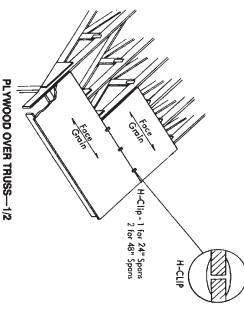
TABLE OF CONTENTS

Direction You Are Looking - Section or Detail No. See Truss Page

INUES MIDWEST PLAN SERVICE

Cooperative Extension & Research in Agriculture & Home Economics in the 12 North Central Universities—USDA Cooperating

6 Pages plus Plan No. Page 36' Truss Sheet mwps: 72364 1 of 8 Cognight c 1978 Midwest Plan Service. Ames.is 50011 Resting Area & Group Pens



PLYWOOD OVER TRUSS-1/2

Leave $\frac{1}{6}$ " gap between panel ends and $\frac{1}{2}$ " gap between panel edges. Approximately $90 - 4^{\circ} \times 8^{\circ}$ plywood sheets are required for this roof.

Roof Sheathing (Face grain perpendicular

See Truss Page for Snow Zones Total roof load, lb/sq ft 15 psf (South) Zone 1 25 psf (Central) Zone 2 35 psf (North) Zone 3 45 psf (North, heavy) ----- Truss Spacing -----Indentification Index* 30/12 or 32/16 36/16 or 42/20 42/20 48/24

	Nail Size	Plywood Thickness
		Nailing
(0.	- 9 -	11. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

Space nails 6" o.c. at panel support edges. 2" or less 6d common 8d common

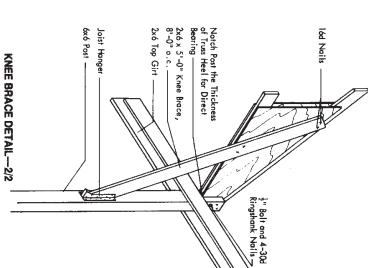
MIDWEST PLAN SERVICE OPEN FRONT CALF BARN
Naturally Ventilated
Resting Area & Group Pens

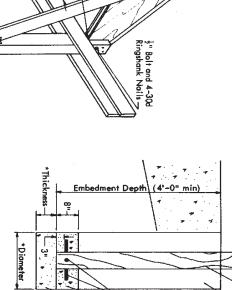
Plan No Page mwps- 72364 2 or 8

*|dentification Index

Sheathing grades are given an indentification index, which indicates strength.
The most commonly stacked panels are underlined.

32/16 32/16 42/20 48/24	3 225 3 666	Identification Index 12/0
1/2", 5/8" 5/8", 3/4", 7/8" 3/4", 7/8"	5/16", 3/8" 5/16", 3/8" 3/8", 1/2"	Available thicknesses, in. 5/16"





—Concrete Collar, cast-in-place, for uplift and fixity

½" × 9" × 12" Rod

– Concrete Pad, cast−in-place

or pre-cast

Compacted Fill.

as required

—Tamped Earth Backfill

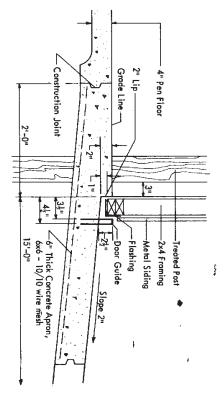
-Treated Post

Original Grade >

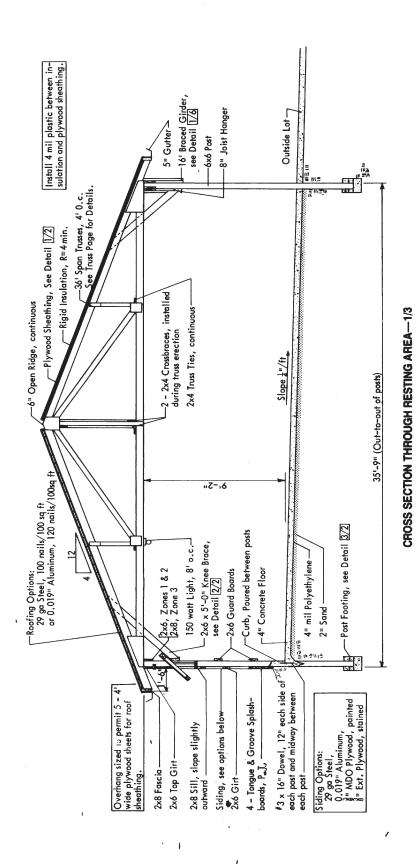
POST FOOTING DETAIL—3/2

12" Dia × 6" Thick @ Endwall Posts 16" Dia × 6" Thick @ Sidewall Posts *Footing Size

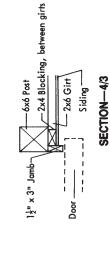
place footing on undisturbed soil. For large diameter footings, use smaller diameter auger and flare the bottom of the hole with Lineman's spoon. Extend embedment depth as required to



SLIDING DOOR APRON-4/2







TRACK GIRT SECTION—3/3

2x2 Filler

 $\langle \varepsilon/\varepsilon \rangle_1$

-6-2x6 T&G Splashboard, P. T.

2x4 Trackboard J

2×10-7

-2x6 Girt



ENDWALL FRAMING-2/3

 $5'-10\frac{1}{2}"$

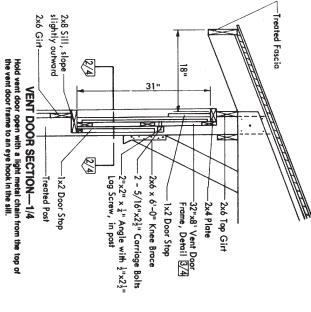
.. 8.-0

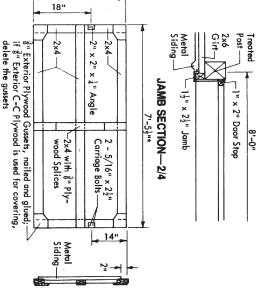
35'-9"

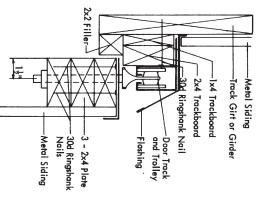
-0 -0 -8

 $5'-10\frac{1}{2}"$

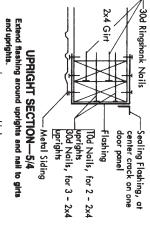
√4'-0" × 6'-8" Walk Door, see Detail [4/6]

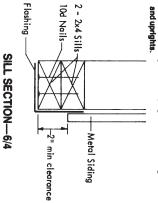


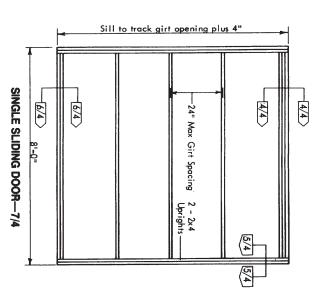


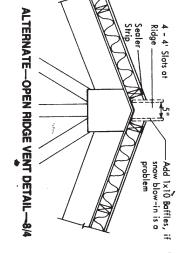


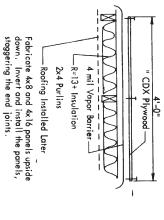
DOOR TRACK ASSEMBLY—4/4











ALTERNATE—INSULATED ROOF PANELS—9/4 Reduce heat gain in summer and heat loss in

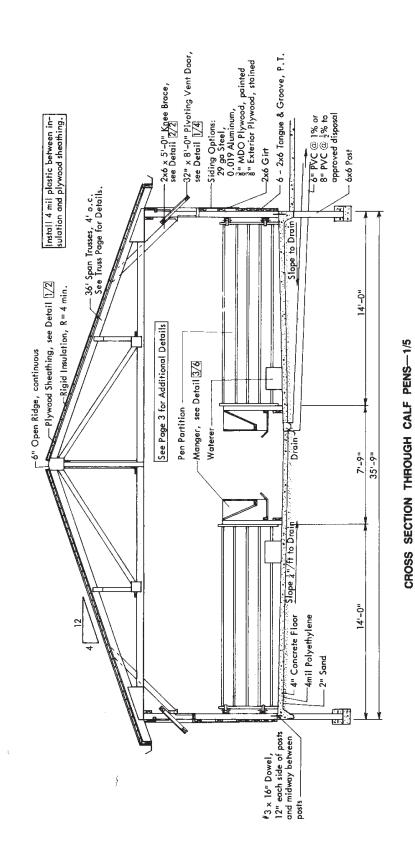
MIDWEST PLAN SERVICE

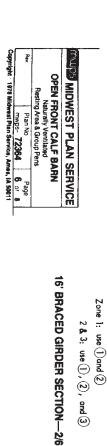
*Alter this dimension for other than 6" wide building posts or other than 8' o.c.

32" x 8'-0" VENT DOOR FRAME-3/4

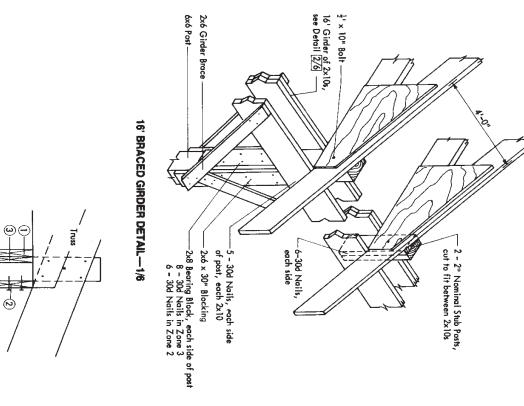
OPEN FRONT CALF BARN Resting Area & Group Gens Page 4 ot 8

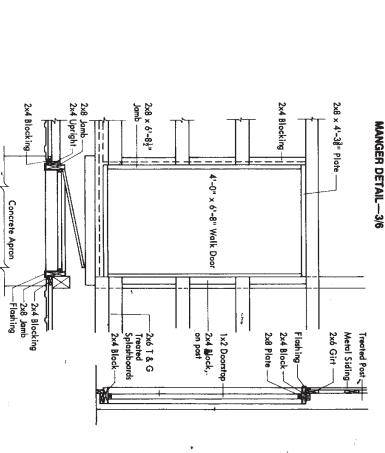
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WALK DOOR DETAIL-4/6





Fasten 2x10s to Post with 3 - 30d Pole Barn Nails

-2x8 Bearing Block

