MWPS-72687

Swine Finishing Unit

Open shed with lot, 100 pigs. This plan is for a 16' x 32' pole-frame open shed with an outdoor lot. The unit houses 100 pigs-about 12 litters-but can be lengthened.

This plan is for the producer who wants to get more of his operation off pasture and out of the mud, but who does not want an enclosed building. The capacity of the unit is about 3 cycles per year; twice as many pens will be needed for farrowing 12 sows 6 times per year. Use bedding in winter.

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

Swine Finishing Unit
Open Shed with Lot, 100 pigs
Title Page

MIDWEST PLAN NO. 72687

Open Shed with Lot, 100 Pigs Plan NWPS-72687 SWINE FINISHING UNIT

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This plan is for the producer who wants to get

more of his operation off pasture and out of the much but who does not want an enclosed building. The capacity of the unit is about 2 yeeks per year twees many pens will be needed for farrowing 12 sows 6

times per year. Use bedding in winter.

Locate the unit where surface drainage can be channeled away. Runoff from the lot must not pollute channeled away. a waterway—install an approved disposal system, such as a settling basin or a serpentine infiltration

Note the concrete curb to deflect drainage around

Floor Slopes and Building Construction

Slope floors down to the manure alley to remove rainwater and melting snow from the feed floor. Side slope the manure alley to drain toward the manure

Especially if more than the length of building shown is built, the manure alley gets too deep and the step from the feed floor and the manure alley gets too

Therefore, this plan recommends a double-slope

- The building is level or horizontal but the floors slope to ano
- b. Slope the entire mor about be per foot in 3"32" toward the low end from left to right
- on Plone Plane 22.
 Slope the Boar sections is lakeled 15 fit indoors, 5 ft feeding area, 55 ft manure alleytoward the step between the feeding area and the manure alley (Building Coss Section 13).
- doors is level so that uniform doors and fram-ing fit along the entire building length. The rear wall is from 16" high ou the high end of the floors to 19" high out the low end of the The top of the rear wall under the ventilation
- Make the partition walls of uniform height. For the roof to be horizontal, increase the height of the lumber and plywood framing
- over the partition walls.

 Back stope the manure storage area so that liquids can be drained off. The runoff can cause pollution, provide for approved dis-

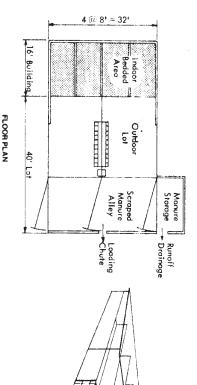
Building space and production cycles.

Although many variations are successful, the following are typical meat hog production systems. Plan building capacity for some extra animals to allow for large litter size, or slow growth rate. Farrow during 3 weeks. Some stalls can be used

a) Move sows and litters to sow-pig nursing pens at 1-3 weeks, depending on how soon the farrowing stalls are needed for the next

Wean pigs at 3-6 weeks, putting 3-4 litters ogether

leturn sows to breeding and gestation



b) Wean pigs at 4-6 weeks (20-25 lb)

Move pigs to nursery.

Heturn sows to breeding and gestating facilities.

Move pigs to finishing unit at 10 weeks (60 lb) (As farrowing intensifies to more than 6 times per year, pigs may be moved at about 5 weeks). Put more pigs stalled pens if you have two pen sizes. Put more pigs stalled from howeouth.

per pen if you have only one pen size.
Move pags to larger pens, or reduce number of pigs
pen pen, at about 17 weeks (125 lb.)

As they approach market weight, and if the finishing unit is crowded, larger hogs can be marketed early

Sows are often rebred during the first or second heat period after weaning, and farrow about 16 weeks

Open Shed with Lot

LUMBER SPECIFICATIONS

2x4 Construction Grade (Doug Fir or Southern Yellow Pine).

2x6 No. 2 (Doug Fir or Southern Yellow Pine) Trusses and Headers

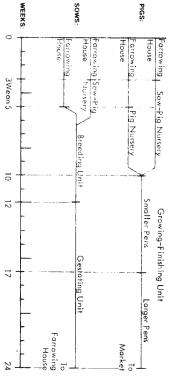
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No. 1 or 1500f machine rated (Doug Fir or Southern Yellow Pine). Posts and Splashboards

B)-0.40 pcf Pressure Preservative Treated (Southern Yellow Pine or equivalent) Creosote—10 pcf, Penta—0.50 pcf. ACA or CCA (Type A or

P. T. means lumber pressure pre-servative treated against insect and fungus attack.

TYPICAL HOUSING CYCLES





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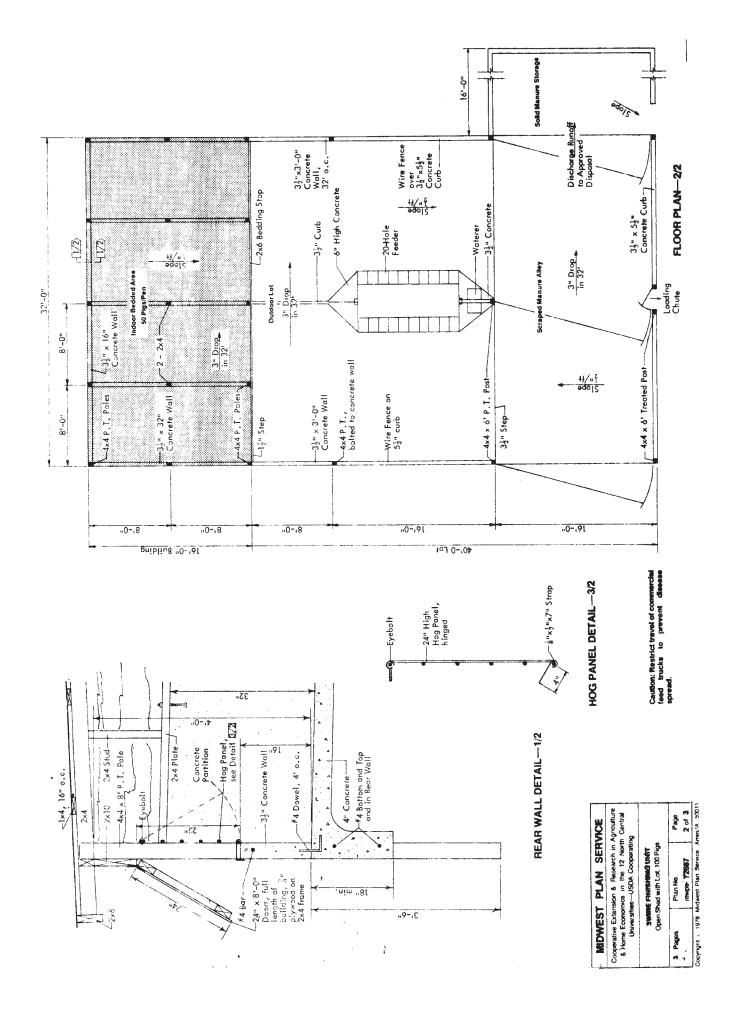
Open Shed with Lot, 100 Pigs SWINE FINISHING UNIT

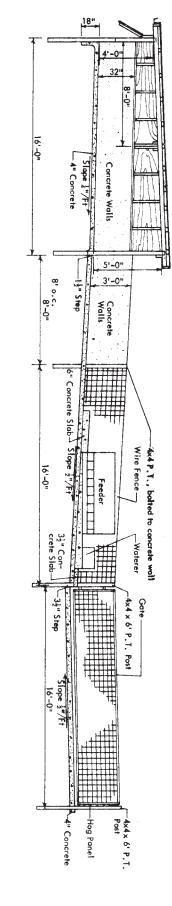
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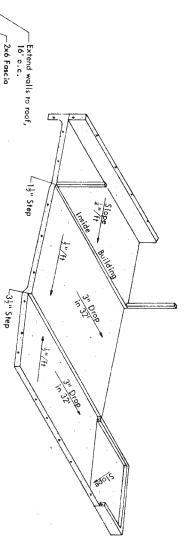
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CROSS SECTION-1/3



BUILDING CROSS SECTION —2/3

16'-0"

#4 Bars, — vertical, approx. 4'-6" o.c.

-2 - #4 Bars, cont. -4×4 × 8' P.T. Pole, 8' o.c.

#4 Dowels, 4'-6" o.c.

8' o.c. -2x6 Bedding Stop

3'-0"

#4 Bars, horizontal

2"x6" Bolt, to anchor sill

-See Detail [/2] 1x4 Purlins, flat;

-2 - 2x6 Girders, 12 - 20d

2 - 2x4, 8' o.c. 2x4 Studs, 24" o.c., 8" CDX, on one side

nails/pole

-2x6 Girder, 6 - 20d nails/pole

-2x4 x 18', 24" o.c.

FLOOR SLOPE DETAIL-3/3

Cast dowels or vertical bars in floor. Put %" x 4" lag bofts in, or run bars through, poles before casting walls.

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Open Shed with Lot, 100 Pigs

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