MWPS-72682

Farrowing House

4 10 sow rooms side by side.

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

Farrowing house 4 10 Swo Rooms side by side Title Page

MIDWEST PLAN NO.

Plan WWPS-72682

Farrowing House--4, 10-Sow Rooms Side-by-Side

This plan is for a 34' x 96 or 104' stud-frame building hous-ing 40 sows in farrowing stalls. Year-round forced ventilation is provided. Manure is stored in a pit under the completely slotted floor or is flushed from under the slats.

Plan A is for storing manure under the slotted floor and pumping ir out about twice a year. The pits under the three rooms are separated by solid masonry partitions, and are empthed through 8" pumping ports.

Plan B is for flushing manure from under the slotted floor. It requires 8" of additional building length to house the flush trequires.

Heat: Desired room air temperature is about 72°F. Provide a 5,000 Btu spare heater (1500 Btu/stall) with a thermostat set at

- If heat is supplied with heated mats on the slats, provide about 150 warts (500Btu) per stall floor heat, plus about 250 warts (500Btu) per stall with overhead heat lamps or ra-duant heaters for use during farrowing.
 If no floor heat is used, provide overhead heat of about 600 warts (2000 Btu) per stall.

Protecting swine from fan failure.

We know of no device that will successfully ventilate a hog nuse automatically in the case of failure of one or more fans or

- Install a loud automatic warning system to alert anyone at or near the farmstead.
- Have someone baby-sit your animals if you are going to be away for more than a few hours, if there are storm warnings out, or if your herd is in an especially sensitive stage (a number of new-born litters, for example)
 Post instructions on what to do in hot weather, mild weather, cold weather, whom to phone for additional advice.
- Prepare walk doors and perhaps summer ventilation panels
- to be propped open part way or fully.

 Consider a stand-by generator to augment hand-opened doors; operate pit fans and in hot weather, circulating fans.

 Consider automatic telephone that dials selected numbers when power fails.

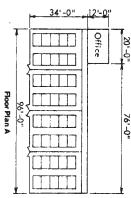
Slat designs

tion variation and grouting.
Space slats % apart i Dimensions in these plans assume concrete slats as listed below and may need to be adjusted for other designs or materials. About 'y' is allowed at each end of a slat for construc-

Space slats " spart in farrowing stalls, with the slot widened to 1" behind the sows For other swine buildings, use 1"

Pit depth based on 0.54 cu ft/day manure per stall, 6" in pit after pumping, 12" freeboard, and 12" additional clearance to improve underfloor ventilation.

Slat	2		pig nursery, or
spen	sery	Finishing	gestation
	Widt	Width x depth, lower bar size	ar size
4	4 x4 #3	4 x4 #3	4 x4 #3
ø,	4"x4",#3	4"×4 // #4	4 ×4 2 #4
œ	5 x4 #4	5 x5 #4	6 x5 #5
10	4 x5 #4	5 x5 #5	6 x6 : #5
Design Loads	nads		
Slats	Per tout of slat	ונ	
	50 plf	100 pH	150 plf
Beams.	Per sq ft floor area	area	
columns 35 psf	35 psf	50 psi	65 psf



Plan A Fully slotted floor over storage pit.

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

Move sows and litters to sow-pig nursing pens at 1-3 weeks, depending on how soon the far-rowing stalls are needed for the next sows. Wean pigs at 3-6 weeks, putting 3-4 litters

facilities. Return sows to breeding and together gestation

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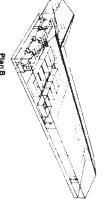
Wean pigs at 4-6 weeks (20-25 lb). Move pigs to nursery. sows to breeding and gestating

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 \$ weeks) Put into smaller pens if you have two pen sizes. Put more pigs are fermion to continue the pens for the properties.

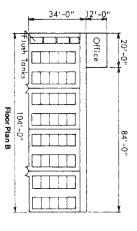
per pen if you have only one pen size. Move pigs to larger pens, or reduce number of pigs per pen, at about 17 weeks (125 lb).

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

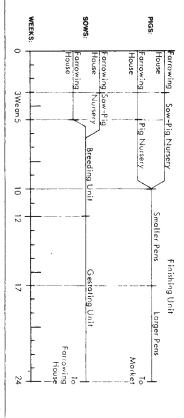
Sows are often rebred during the first or second heat period after weaning, and farrow about 16 weeks later.



Plan B Fully slotted floor over flushed pit.



TYPICAL HOUSING CYCLES



LUMBER SPECIFICATIONS

Roof Purlins and Studs Construction_Grade (Doug Fir Southern Pine or Hem Fir)

See Truss Page

Plywood Roof Sheathing— $\frac{3}{8}$ C-C Ext ("Identification Index" = 20.0) Siding and Wall Lining and Ceiting—% or % C-C Ext with Medium Density

FRP Plywood is a composite material using plywood overlaid with a layer of plastic. It is moisture resistant and more durable and easier to clean than plywood

Overlay

Sills and Fascia Yellow Pine or equivalent) Creosote—8 pct. Penta—0.40 pct ACC—0.25 pct. ACA or CCA (Type A or B)—0.23 pct. Pressure Preservative Treated (Southern

fungus attack T means lumber pressure ervative treated against insect t and



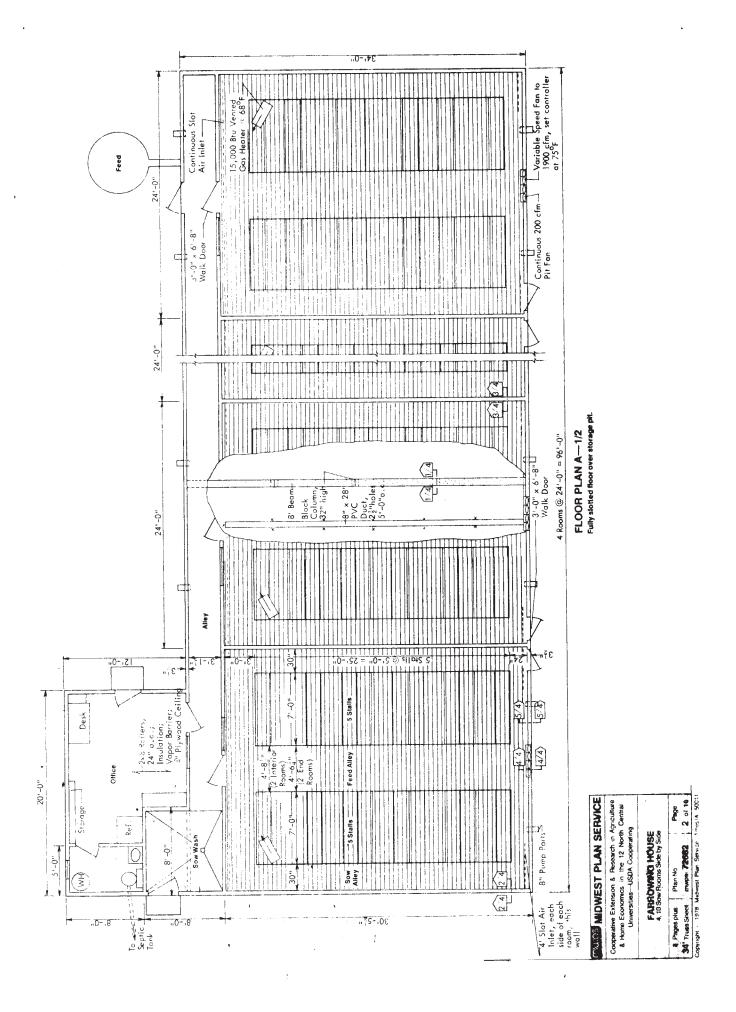
Section & Detail Indicator

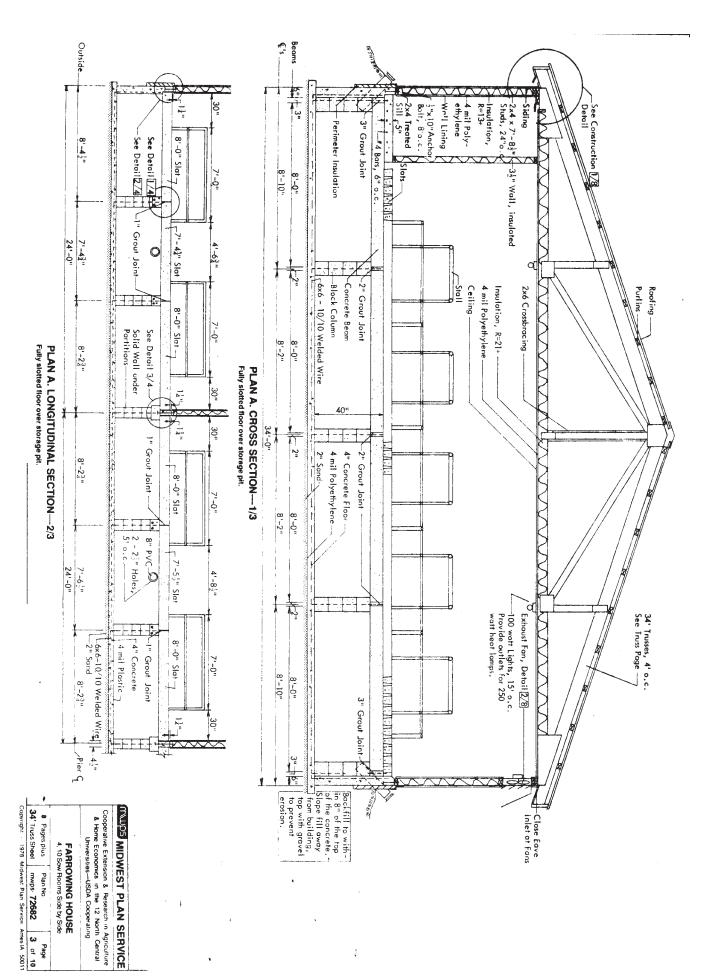
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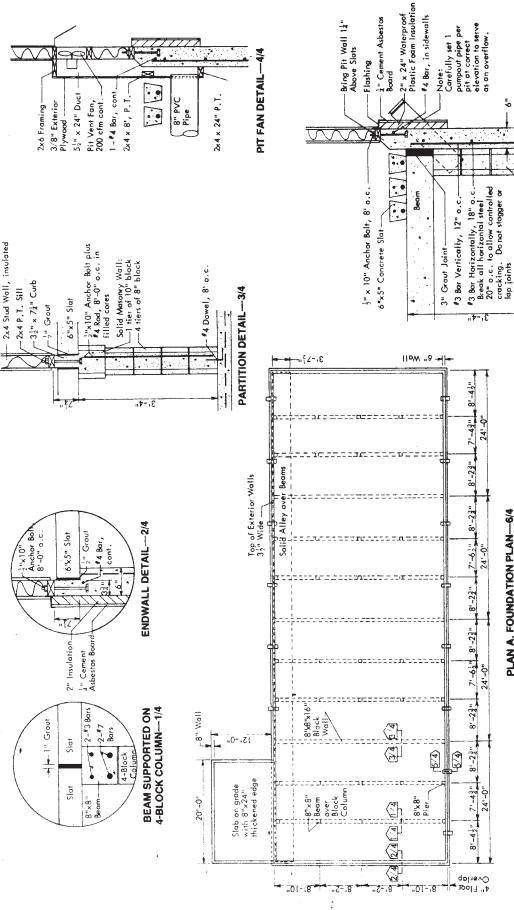
MIDWEST PLAN SERVICE

34' Truss Sheet 8 Pagesplus **FARROWING HOUSE** 10 Sow Rooms Side by Side mwps: 7'2682 Pian No Page 1 of 10

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PLAN A. FOUNDATION PLAN-6/4

*4 x 16" Dowel, 4'-0" o.c.

Masonary Pier, under beam

4" Concrete Floor.

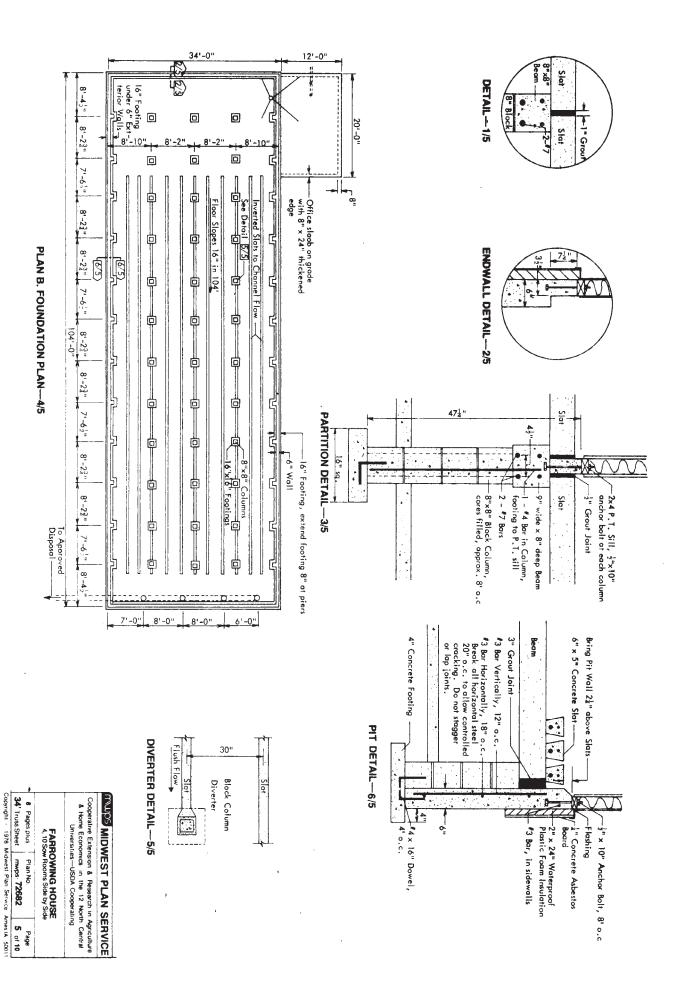
PIT DETAIL—5/4

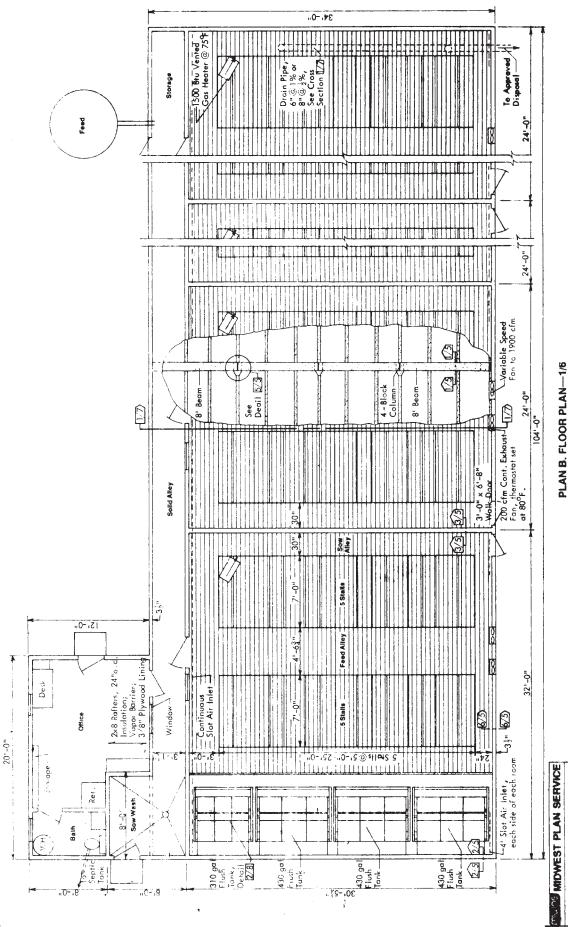
6x6-10/10 Welded Wire

4 mil Polyethylene

2" Sand

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PLAN B. FLOOR PLAN—1/6 Fulty slotted floor over flushed pitt.

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