### MWPS-72679

### **Farrowing House**

Outdoor Feed, 12 Sows.

### **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

Faarrowing House

Title Page

MIDWEST PLAN NO. 72679

# Plan IMPS-72679 Farrowing House; Outdoor Feeding

This plan is for a 24' x 36' stud-frame building housing 12 saws in farrowing stalls. A variable speed fan provides feroed ventilation. Use vent doors for natural ventilation when weather permits. A 12' x 24' outdoor feeding floor is provided—seeding in the stalls is optional.

If stalls are longer than 7 ft, increase building width to 26'-0"

### General Specifications

Fans: Select exhaust fans for the stated capacity at 1/3" static

pressure.

Concrete: Use \$500 psi concrete with 7% air entrainment.

Concrete: Use \$500 psi yield install size! and concrete. surefully and accurately.

### If building is to be bedded:

- Desired building air temperature is about 65°F.
   Provide one 250-watt heat lamp for each stall.
   For winter farrowing, provide an 18,000 Btu furnace (1500 Btu/stall) with a thermostat set at 60°F.
- Set the fan controller to provide about 240 cfm when room temperature is 65°F.

- If building is not be be bedded:

  Desired building air temperature is about 72°F.
  Set the furnace (18,000 Btu) thermostat at 68°F. Set the fan controller to provide about 240 cfm at 72°F. A thermostat can shut down the fan at 50°F in case the furnace fails.
  Provide 150 watts (or 500 Btu) of heat per stall in the floor or with heat mats on the floor, plus 250 watts (or 500 Btu) per stall with heaters above the creep areas for use during farmounts.
- rowing.

  Or, with no floor heat, provide heat over creeps, of about 600 watts (2000 Btu) per stall with heatlamps or radiant

# Protecting swine from fan failure.

We know of no device that will successfully ventilate a hog house automatically in the case of failure of one or more fans or the whole electrical system.

- Install a loud automatic warning system to alert anyone at
- out, or if your herd is in an especially sensitive stage (a number of new-born litters for example).

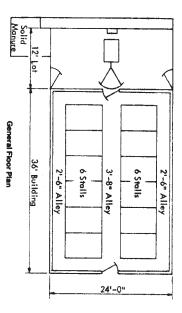
  Post instructions on what to do in hot weather, mild Have someone baby sit your animals if you are going to be away for more than a few hours, if there are storm warnings
- weather, cold weather, who to phone for additional advice,
- Prepare walk-doors and perhaps summer ventilation panels to be propped 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.

# luilding space and production cycles

Although many variations are successful, the following are typical meet 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

### Either:

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 together. Return sows to breeding and gestation

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

Move pigs to nursery.

Return sows to breeding and gestating

9

Move pigs to finishing unit at 10 weeks (60 lb). (As facilities

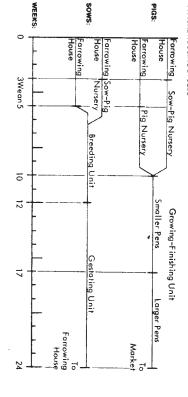
Move pigs to nunsung universal farmowing intensifies to more than 6 times per year, pigs may be moved at about 8 weeks.) Put into smaller pens if you have two pen sizes. Put more pigs per pen if you have only one pen size. Move pigs to larger pens, or reduce number of pigs per pen, at about 17 weeks (125 lb).

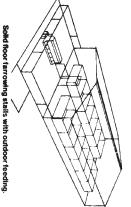
As they approach market weight, and if the finishing unit is crowded, larger hogs can be

marketed early.

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

## TYPICAL HOUSING CYCLES





# LUMBER SPECIFICATIONS

Roof Purlins and Studs
Construction Grade (Doug Fir. Southern
Pine or Hem Fir)

See Truss Page

Roof Sheathing—3/8" C-C Ext ("Identification Index" = 20/0)
Siding and Wall Lining and Ceiling—3/6"
or 1/8" C-C Ext with Medium Density

FRP Phymood is a composite material using plymood overtaid with a layer of plastic. It is moisture resistant and more durable and sasier to clean than plymood

Sills and Fascia

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

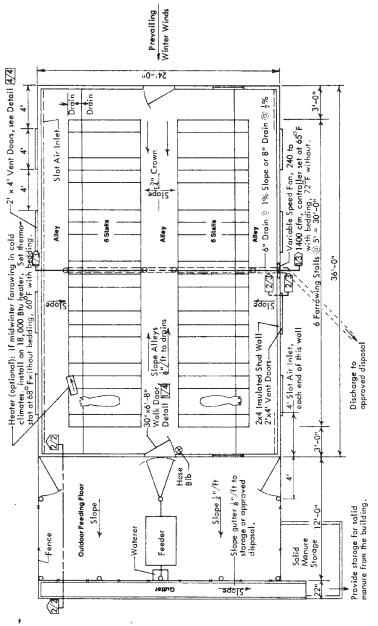
ungus attack. T. means lumber pressure ervative treated against insect pre-



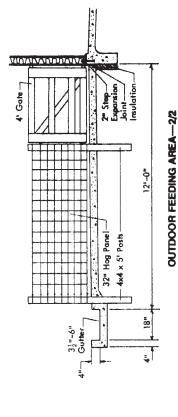
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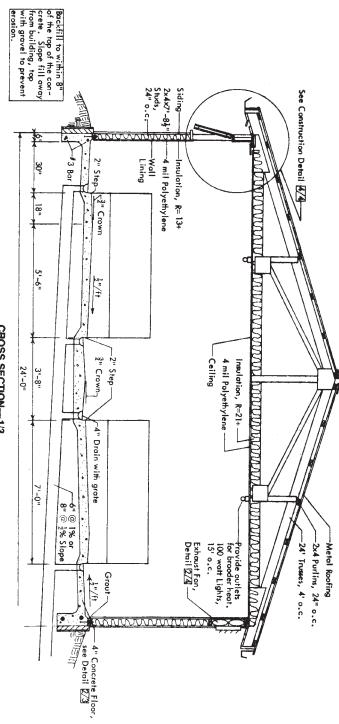
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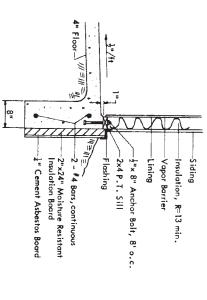
FLOOR PLAN—1/2
Solid floor farrowing stalls with outdoor feeding.
Feed and water sows outdoors as shown, or install feeders and waterers in each farrowing stall.



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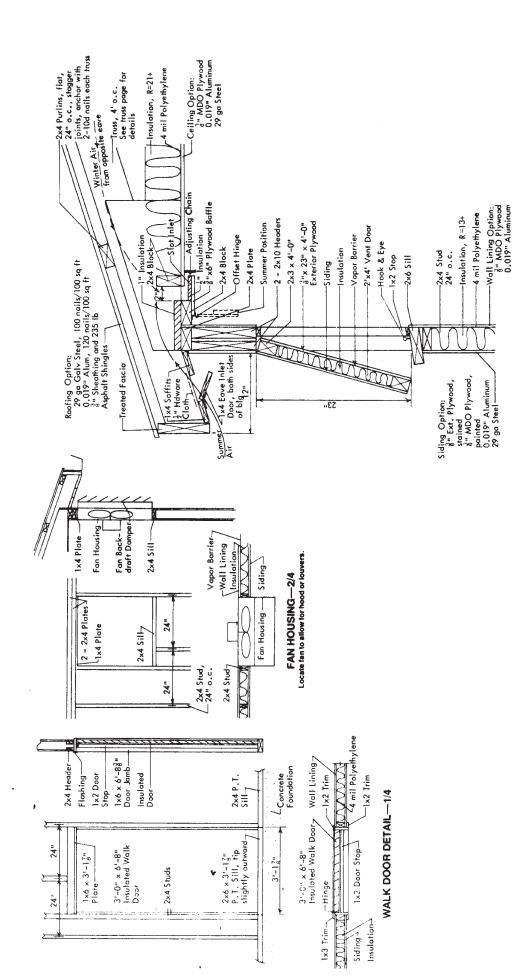


CROSS SECTION—1/3
Solid floor farrowing stells with outdoor feeding.



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SIDEWALL DETAIL-2/3



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# CONSTRUCTION DETAIL-4/4

install eave inlet along both long walks. Install alot inlet along the long wall toward the prevaling whiter winds. Install fans, and 4' of slot inlet near the corners, along the other long wall.

Summer: Open save inlet next to stot latest to draw air directly Into building. Close seve intel along far well. Drop stot where barths ing. Close seve intel along far well. Writes: Close seve intel along far well to draw air across attic and through stot intel. Fasten stot lated faint to draw air across attic and through stot intel. Fasten stot intel battle in 'up' position to force cold air across celling. Hold vent doors and baffles in position with hooks and eyes.

Stot Opening: 'N'
Other ventilation systems are shown in IMWPS—8, Swine Housing and Equipment Mandbook.