HEATERS

Heaters should be non-backdrafting to prevent fires from starting in the unit and to prevent heater fires from blowing out.

HEAT REQUIREMENTS

The table indicates the capacity needed for anticipated continuous outside temperatures. Thermostats must be on during hours when supplemental heat is required. Supplemental heat and ventilation requirements are greater for finishing pigs than for either farrowing or growing. Heating capacities given below will be required for finishing. Lamps or floor heat are assumed for creep areas.

Floor Heat: Provide about 30 watts per square foot with electrical heating tapes, or 50 kg per hour per foot of hot water (60°F to 130°F.) pipe.

OUTSIDE TEMP. HEAT REQD. BTU/HR PER PEN

-40 6000
-20 4000
0 2400
20 1000

FARROW-TO-FINISH FOR SWINE

PLAN NO. 72676

FIVE LAYOUTS SHOWING PARTIALLY SLOTTED FLOORS.
THREE FOR Farrow-TO-Finish.
TWO FOR WEANER-TO-Finish.
FLOOR SLOTS, EQUIPMENT LOCATION, PEN ARRANGEMENTS.
ALTERNATE MANURE HANDLING SYSTEMS.
HEATING AND VENTILATING REQUIREMENTS.

BUILDING REQUIREMENTS

Building requirements.

CONCRETE OR HARDWOOD

ANGLE OR T

CHANNEL

SLOTTED FLOOR SECTIONS

Slot spacing is a compromise between wide slots for good self-cleaning and economy, and narrow slots for a more continuous floor. The slot spacing seems to be 3/4" to 1". Smaller slots may catch the legs of young pigs and be less self-cleaning.

BUILDING CAPACITY

These layouts assume one litter per pen.

FARROWING

Provide farrowing pens in separate facilities, and move the sow and pigs into the pens within a few days. Existing facilities for farrowing can serve a large herd.

OTHERS farrow and wean in existing facilities, then move the pigs into the pens. The two weaner-to-finish layouts are suitable for this type of management.

SANITATION

Provide disinfestating pans for beds at all building entrances. Clean and disinfect pens between each batch of pigs. Periodically clean slotted floors thoroughly. Pigs may breed in piles of dry manure.

CONCRETE FLOORS

Finishes with wood floor and light steel tiling. Slope 3/4" per foot to gutters. If building is used, slope from 1/4" per foot and handle empty as a solid rather than a liquid.
4' WIDE PENS

36'-0"  12'-0"  12'-0"  4'-0"

TEMPORARY CREEP AREA CAN BE PROVIDED

FEEDER OR FLOOR FEEDING

FLOOR HEAT FOR BROODING

PERIMETER INSULATION

FARROW-TO-FINISH, CENTER CREEP AREA AND ACCESS ALLEY

5' WIDE PENS

26'-0" TO 30'-0"

3'-0"

SLOTTED FLOOR

FARROWING STALLS

WATERER

SERVICE ALLEY

FARROW-TO-FINISH, SIDE CREEP ALLEY AND CENTER ALLEY

Use 5' wide pens to remodel existing 25' to 30' building, or if farrowing stalls will be used and later removed from pens.

This layout is more difficult to manage than the wider farrow-to-finish layouts to the left.

GUARD CAPACITY

With 4' width of gutter per pen, as shown, the following table indicates required depth.

GUARD DEPTHS IN FEET

<table>
<thead>
<tr>
<th>Clearing Interval</th>
<th>1 Wk</th>
<th>2 Wks</th>
<th>3 Wks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Saw &amp; Lumber</td>
<td>1/2</td>
<td>2/3</td>
<td>1</td>
</tr>
<tr>
<td>100 lb. Pipe</td>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Market Pipe</td>
<td>2</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>

FARROW-TO-FINISH, SIDE CREEP ALLEY

WEANED-TO-FINISH, CENTER ALLEY

These WEANED-TO-FINISH layouts do not have convenient access to creep areas, and therefore are not recommended for very young pigs.

WEANED-TO-FINISH, CENTER ALLEY