FOR UNIFORM GUTTER DEPTH, SLOPE ENTIRE BUILDING 24" IN 96" (1/4" PER FOOT)

FEED & SUPPLY STORAGE

125-GALLON FLUSH TANKS

PIT DRAIN UNDER LAST STALL

AIR TUBE (SEE SHEET 2 FOR DETAIL)

36" WALK ALLEY

40 ELEVATED STALLS IN EACH ROW

36"x80' PLASTIC CURTAIN EACH SIDE

PLAN

SCALE: 3/32"=1'-0"

INSULATION JOINTS TO BE TONGUE & GROOVE OR TAPED WITH VAPOR RESISTANT TAPE. MOLDED BEAD STYRENE IS NOT RECOMMENDED.

2x4 ROOF LATH LAID FLAT 24" o.c.

CONTINUOUS RIDGE VENT

2x4 TIE

4x6 POSTS SET 6' o.c.

2x6 SIDE PLATE

28" SIDING (1/2" EXT. PLYWOOD OR EQUAL)

2x6 TOP PLATE

2x6' KNEE BRACE, 12' o.c.

4x6 POSTS SET 6' o.c.

34" HIGH WELDED WIRE FENCING

2x6 PLATE

6" BLOCK

CONC. FOOTING

CROSS SECTION

SCALE: 3/16"=1'-0"

20"x28" HINGED PANEL (1/2" EXT. PLYWOOD ON 2x2 FRAME)

CURTAIN SUPPORT STRAP

3' WINCH-OPERATED PLASTIC CURTAIN ON BOTH SIDES (PROVIDE A 2'-9" OPENING)

METAL ROOFING

TRUSSES SET 4'-0" o.c.

AIR TUBE

7'-9"

28"

3'-6"

8"

8" BLOCK

4" CONC. FLOOR

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS

THE UNIVERSITY OF TENNESSEE

ENCLOSED CALF BARN

WITH 80 ELEVATED STALLS

TENN 11-14-2002 | SHEET 1 OF 2

6FO PLAN NO. 14177
SCHEMATIC VENTILATION PLAN

VENTILATION EQUIPMENT AND CONTROLS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SPECIFICATIONS</th>
<th>NOTES</th>
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<tbody>
<tr>
<td>Tube Fan</td>
<td>Acme # RCP2466 (24&quot; Dia.)</td>
<td>Operates continuously</td>
</tr>
<tr>
<td>Air Tube</td>
<td>Acme # HDP (24&quot; Dia.)</td>
<td>73° to 81° Long</td>
</tr>
<tr>
<td>Damper &quot;R&quot;</td>
<td>Dayton #30234 (30&quot; x30&quot;)</td>
<td>Closes on temperature rise</td>
</tr>
<tr>
<td>Damper &quot;A-B&quot;</td>
<td>Dayton #30234 (30&quot; x30&quot;)</td>
<td>Opens on temperature rise</td>
</tr>
<tr>
<td>Gas-Fired Unit Heater</td>
<td>L. B. White #377-3</td>
<td>115,000 BTU per HR input</td>
</tr>
<tr>
<td>Thermostat</td>
<td>Dayton #2E209</td>
<td>Single pole; double throw</td>
</tr>
<tr>
<td>Ten Minute Timer</td>
<td>Dayton #2E209</td>
<td>Minimum “On” time is three minutes of each ten</td>
</tr>
<tr>
<td>Mixing Box (32&quot; x 32&quot; x 32&quot;)</td>
<td>Fabricated of galvanized sheet metal to fit fan and dampers</td>
<td></td>
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NOTES:
1. Adequate and proper ventilation is essential for the successful operation of enclosed livestock housing.
2. Select a complete ventilation system before starting construction so the necessary structural provisions for installing the system can be made. This plan shows one system; other commercial systems are available.
3. Mention of a trade name is for comparison purposes only. The Agricultural Extension Service does not endorse the mentioned products or disapprove of similar products not mentioned.
4. Air tube may be placed off-center over one row of stalls to improve headroom clearance.

WIRING DIAGRAM

- 115 Volts
- "On-Off" Switch
- Timer MTR
- Spot Thermostat
- Ten Minute Recycle Timer
- DWP'R "A-B"