MWPS-75248

Single 3-Side-Opening Parlor

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.

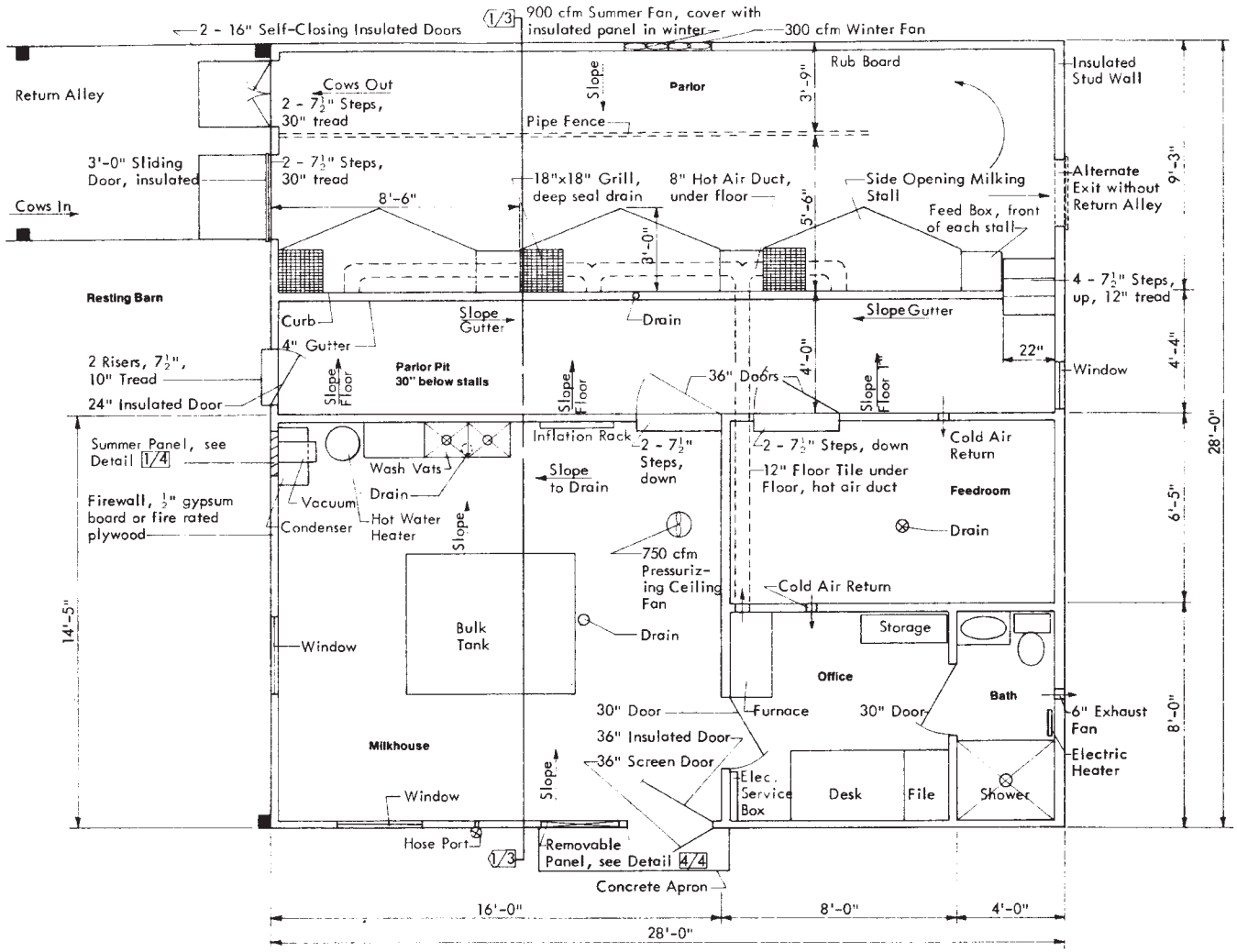
MIDWEST PLAN SERVICE

Cooperative Extension Work in
Agriculture and Home Economics
and Agricultural Experiment Stations
of North Central Region - USDA Cooperating

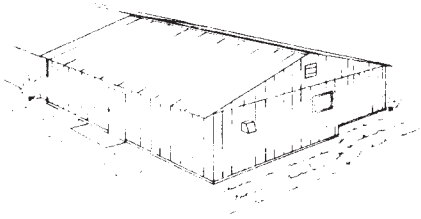
Single 3-Side-Opening Parlor

Title Page

MIDWEST PLAN NO. 75248

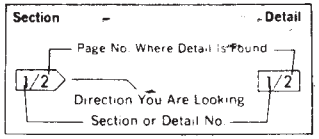


FLOOR PLAN—1/1



Before you build this milking center consult with and get the approval of the health authorities having control of the sale of your milk.

Consult with equipment supplier for specific dimensions before building.



Section & Detail Indicator

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Use deep seal floor drains.

Install 2x12 rub board, centered 36" above floor, along walls where cows have access.

Hot water heater—use 80 gallon minimum, set temp. at 165 F. Install mixing faucet to provide 115 F. water to milking parlor.

Heating—duct 10 KW or 35,000 Btu downdraft furnace under the floor to milker's alley. Hot air ducts of vitrified bell tile or cement asbestos pipe, insulated.

Condenser and vacuum-conventional R-12 unit, 2 hp, 20,000 Btu/hr minimum. Consult manufacturer's recommendations for vacuum pump capacity.

Floor—4" concrete slab, thickened to 8" under bulk tank.

Slopes—milking parlor, 3" to drain behind cows.
milkhouse, 2" from walls to center.
milking parlor pit, 1" from wall to gutter.
feedroom, 1" from walls to drain.

Install anti-back draft air inlets over milkhouse pit

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SINGLE 3-SIDE-OPENING PARLOR

4 Pages plus 28' Truss Sheet	Plan No. mwps- 75248	Page 1 of 6

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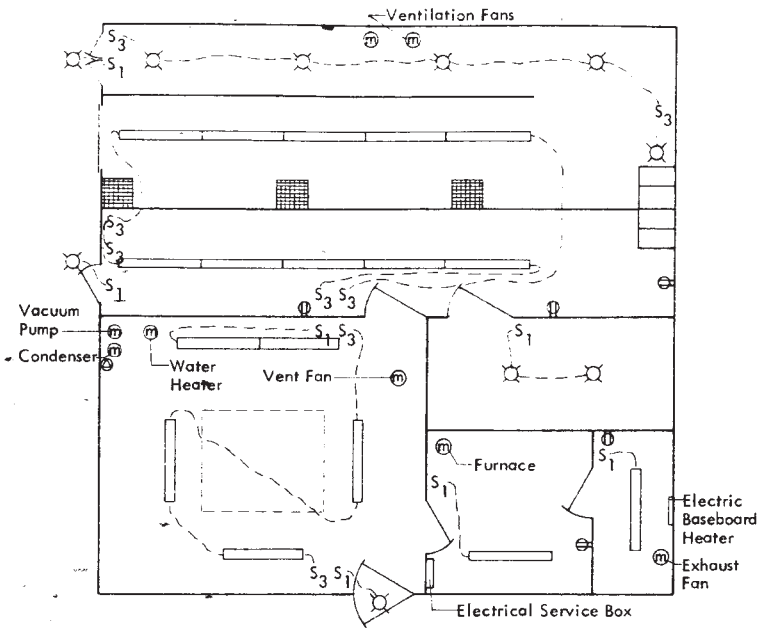


ELECTRICAL PLAN—1/2

KEY

- 2 - 40 watt Fluorescent Lights
- S_1 Single Pole Switch
- S_3 Three-Way Switch
- 100 watt Light Bulb Outlet
- 120 volt Outlet
- 240 volt Outlet
- (m) Equipment Motor

- Control fans with manual switches.
- Use weatherproof lighting fixtures, switches, and outlets.
- Elevate outlets and switches 6' in milking parlor to avoid cow damage and remaining outlets 2' for floor wash water.
- Equipment may be wired directly into a circuit or connected to an appropriate outlet.
- Locate lights to avoid equipment interference for specific tasks.
- Wire to meet all state and local codes.
- Service box is 120/240, 1Ø, sized according to equipment selected.

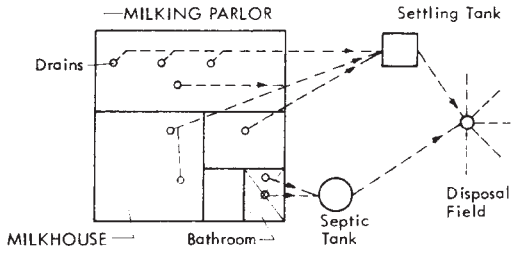
Lumber Specifications

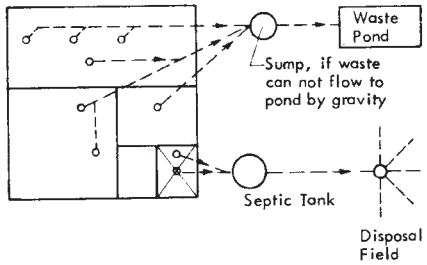
Studs
Construction Grade (Doug Fir, Southern Yellow Pine or Hem Fir).

Trusses
No 1 (Doug Fir, Southern Yellow Pine, or Hem-Fir). See truss page.

Plywood
Roof Sheathing—3/8" C-C Ext. ("Identification Index" 20 0)
Siding—3/8" C-C Ext. with medium density overlay.

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.



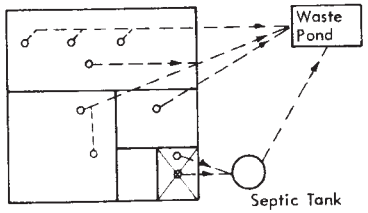


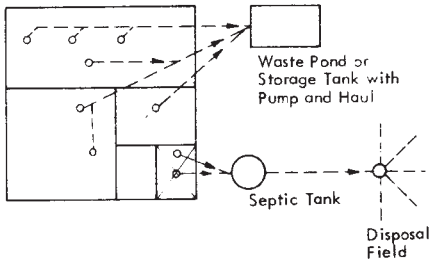
MILKHOUSE WASTE DISPOSAL—2/2

If liquid manure handling is used in the Dairy Barn, all wastes except those from the bathroom may go into the manure tank.

Check your waste disposal plan with local health authorities.

Milk solids may plug disposal fields.





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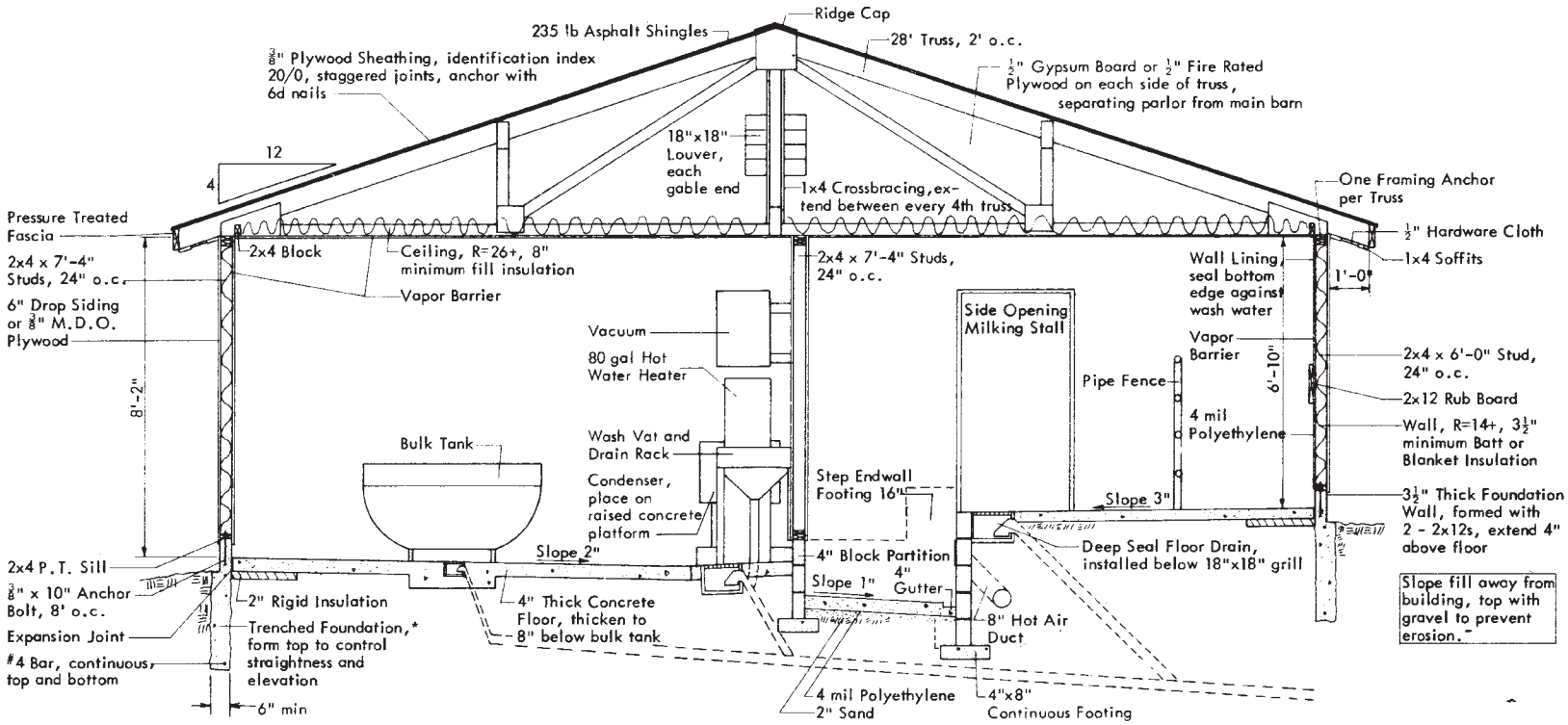

CROSS SECTION—1/3

***Foundation Notes**

Only cohesive soils, loess or high clay content, are suitable for this type of foundation. On other types of soils, dig a 4'+ wide trench and form the wall.

Depth:
30" minimum
On soil known to be susceptible to frost heaving use one of the following construction techniques:

- Extend the foundation to below maximum frost penetration.
- Dig a perimeter trench to below frost penetration, backfill it with crushed rock, and then build a normal curtain wall foundation.
- Build a column and beam foundation with the columns extended to below frost penetration and the beam located above the ground surface.

Ceiling Alternatives:

- 3/8" M.D.O. Plywood, painted, staggered joints, anchor with 6d nails
- Fiberglass reinforced plastic surface laminated on 3/8" Ext. Plywood, install similar to 3/8" M.D.O. Plywood
- 0.024 in. Aluminum
- 29 ga Galv Steel, with baked on paint
- 3/8" Ext. Plywood, painted

Use galv nails except with aluminum. Finish M.D.O. and Ext. Plywood with 2 coat acrylic-latex exterior paint system.

Wall Lining Alternatives:

- 28 Ga Galv Steel, with baked on paint, over 3/8" Plywood
- Structural Glazed Tile
- Fiberglass reinforced Polyester Resin Board
- Fiberglass reinforced plastic surface laminated on 3/8" M.D.O. Plywood
- 3/8" M.D.O. Plywood, painted
- 3/8" Ext. Plywood, painted

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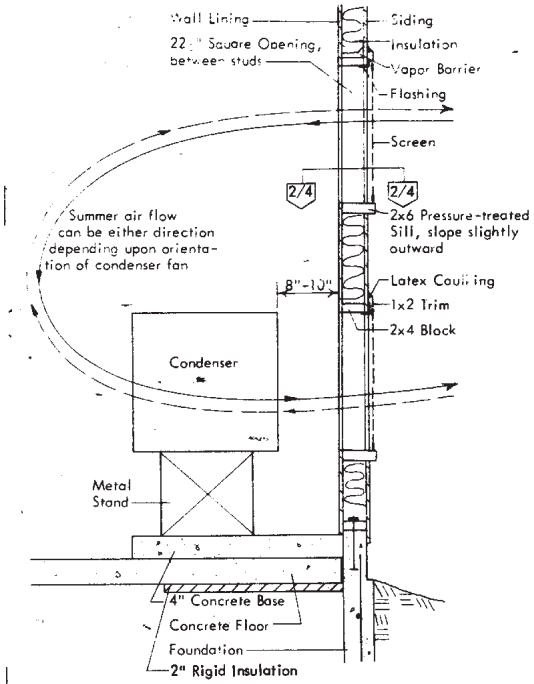
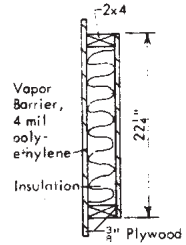
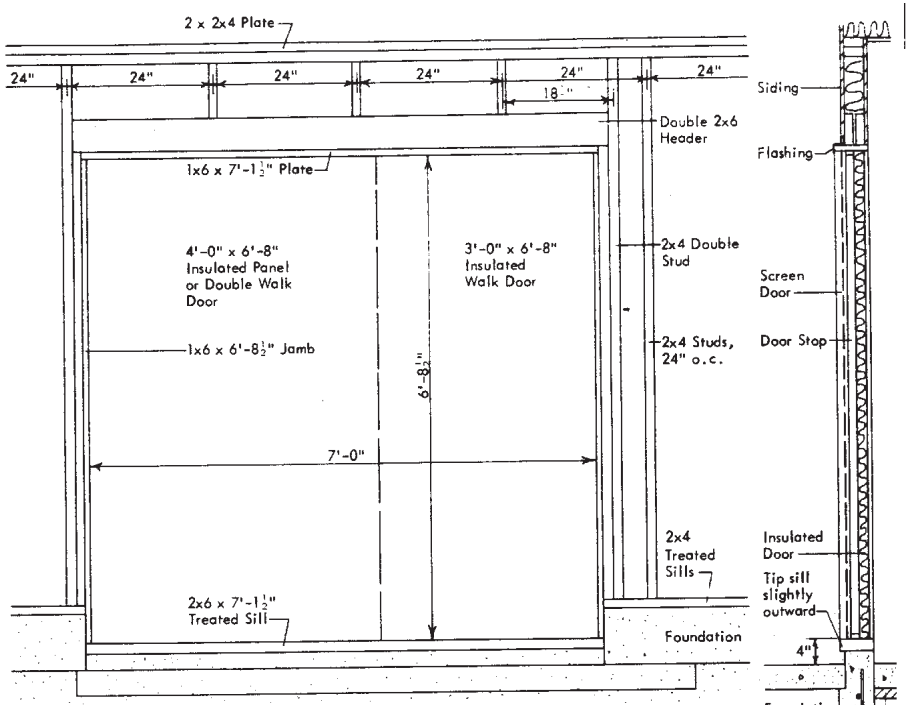


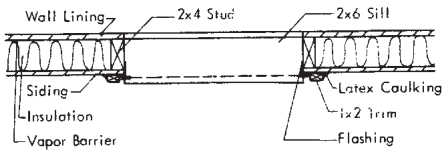
CONDENSER VENTILATION DETAIL—1/4



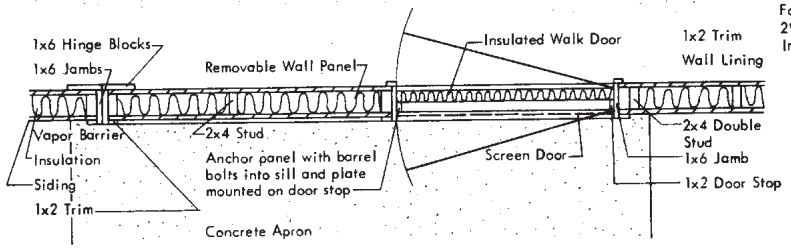
REMOVABLE WALL PANEL—3/4

Install in screened opening in cold weather so condenser heat remains in milkhouse.





SECTION—2/4



WALK DOOR AND REMOVABLE PANEL DETAIL—4/4

Seal trim and flashing with latex caulking.

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