

MWPS-75247

Herringbone Milking Center

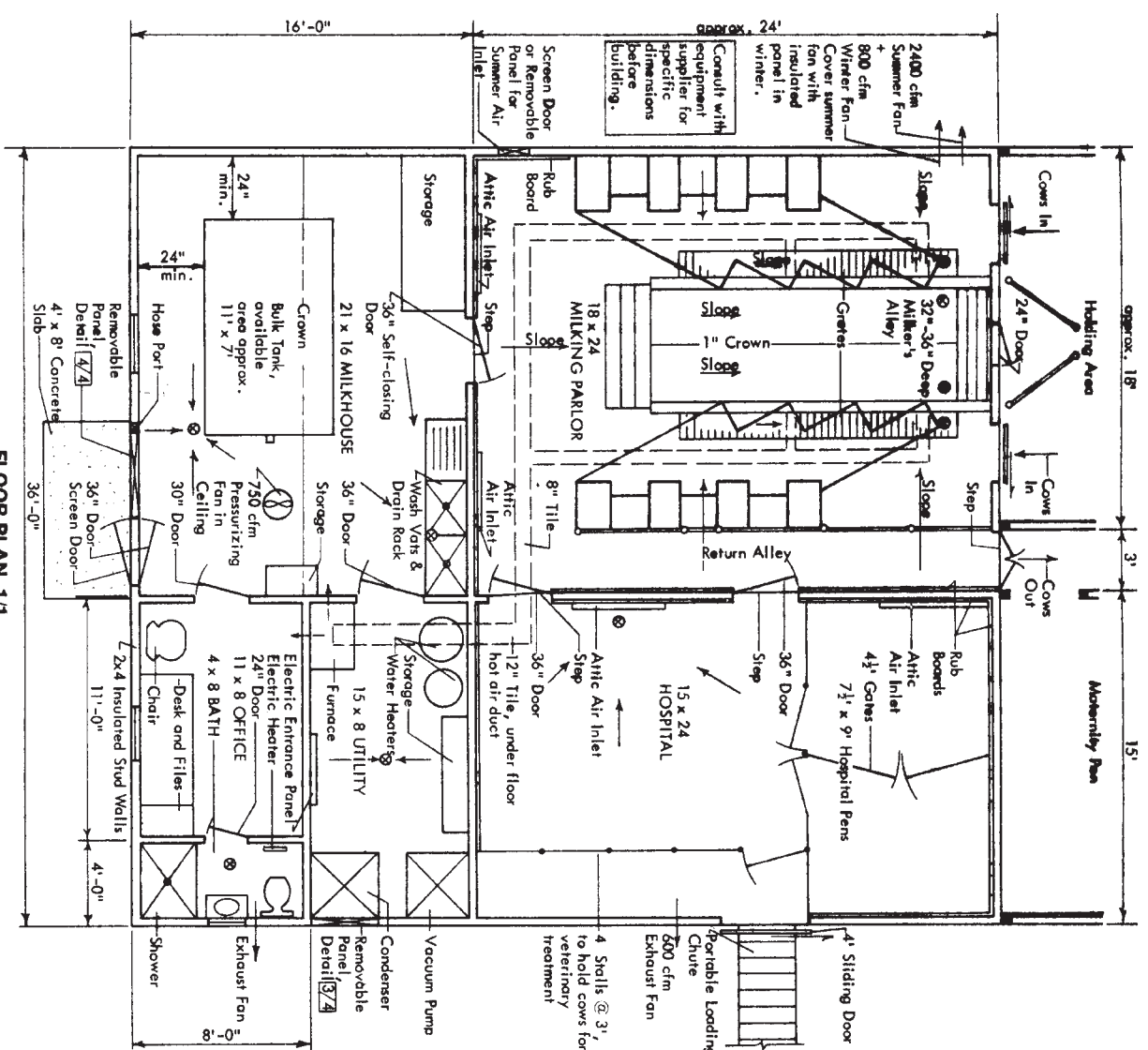
CAUTION!

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

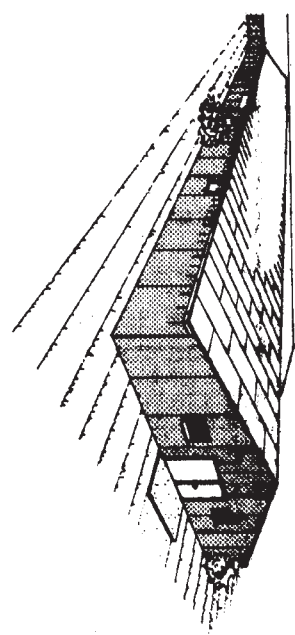
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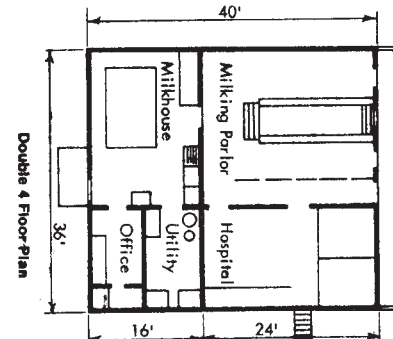
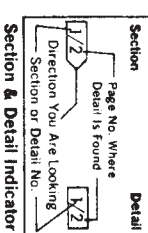


FLOOR PLAN 1/1

Provide separate maternity, calf, young stock and dry cow facility.



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



Control fans with manual switches. Use deep seal floor drains. Install 2x12 rub board, centered 36" above floor, along walls cows have access to.

Heating—Duct 15 kw or 50,000 btu downward furnace under the floor to milker's alley, milkhouse office and hospital area. Locate cold air returns high in the wall from milking parlor, milkhouse and hospital area.

Water heaters—use one 80 gal., 165°F and one 50 gal., 115°F.

Floor: 4" Concrete Slab, thicken to 8" under bulk tank
Slopes:
Milking Parlor—1/4" ft. to drain behind cows
Hospital Area—3" from walls to drain
Milkhouse—2" from walls and crown to drains
Utility—1" from walls to drain
Provide 6" to 8" step up from holding area to milking parlor and 2" step up from milking parlor to milkhouse and hospital area. A 1" to 2" sill from milkhouse to utility room, office and milking parlor also may be used to prevent washing between rooms.

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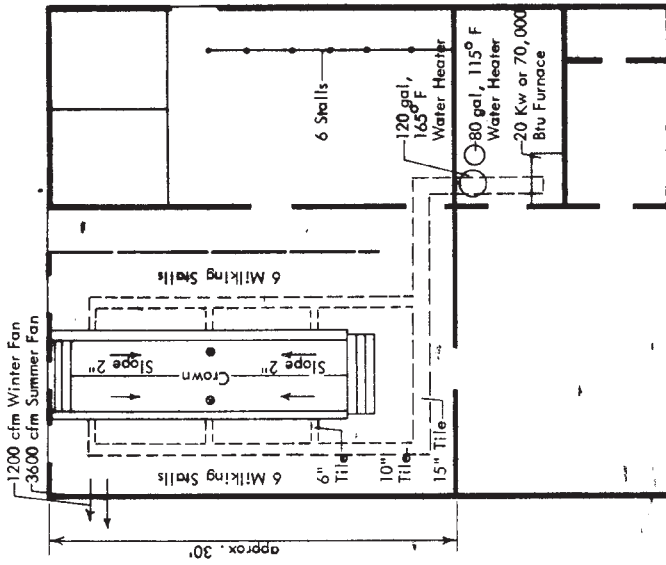
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HERRINGBONE MILKING CENTER

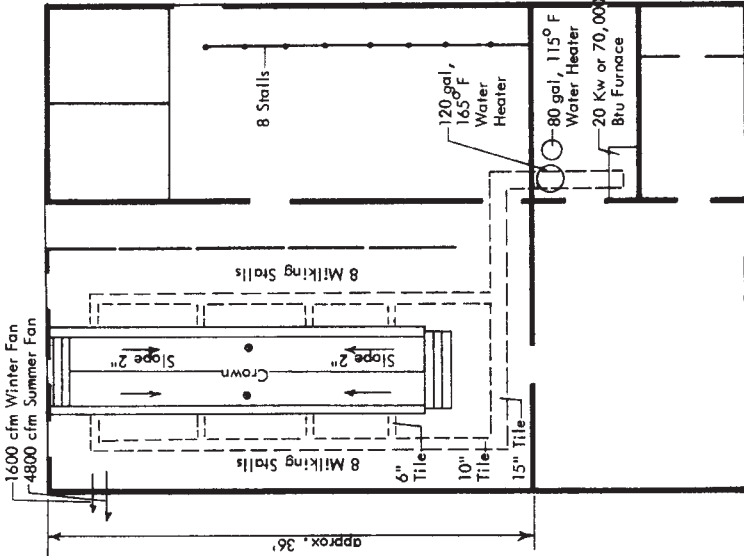
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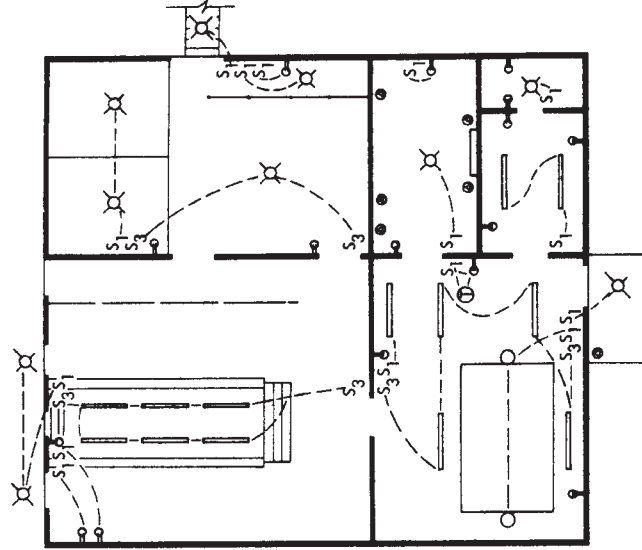
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DOUBLE 6 HERRINGBONE MILKING CENTER 1/2
Differences from Double 4



DOUBLE 8 HERRINGBONE MILKING CENTER 2/2
Differences from Double 4



Use all weatherproof outlets and switches. Elevate outlets and switches 6' in milking parlor and hospital to avoid cow damage and remaining outlets 2' for floor wash water. Equipment may be wired directly into circuits. Install swivel base flood lights only if bulk tank does not have automatic washer.

Wiring Key:

- S₁ Single Pole Switch
- S₃ Three-Way Switch
- 150 Watt Swivel Base Flood Light
- ⊗ 100 Watt Light Bulb Outlet
- 2 - 40 Watt Fluorescent Light
- ⊖ 120 Volt Outlet
- ⊕ 240 Volt Outlet
- ⊖⊕ Thermostat

Wire according to local codes.

ELECTRICAL PLAN 3/2

ESTIMATING LIST

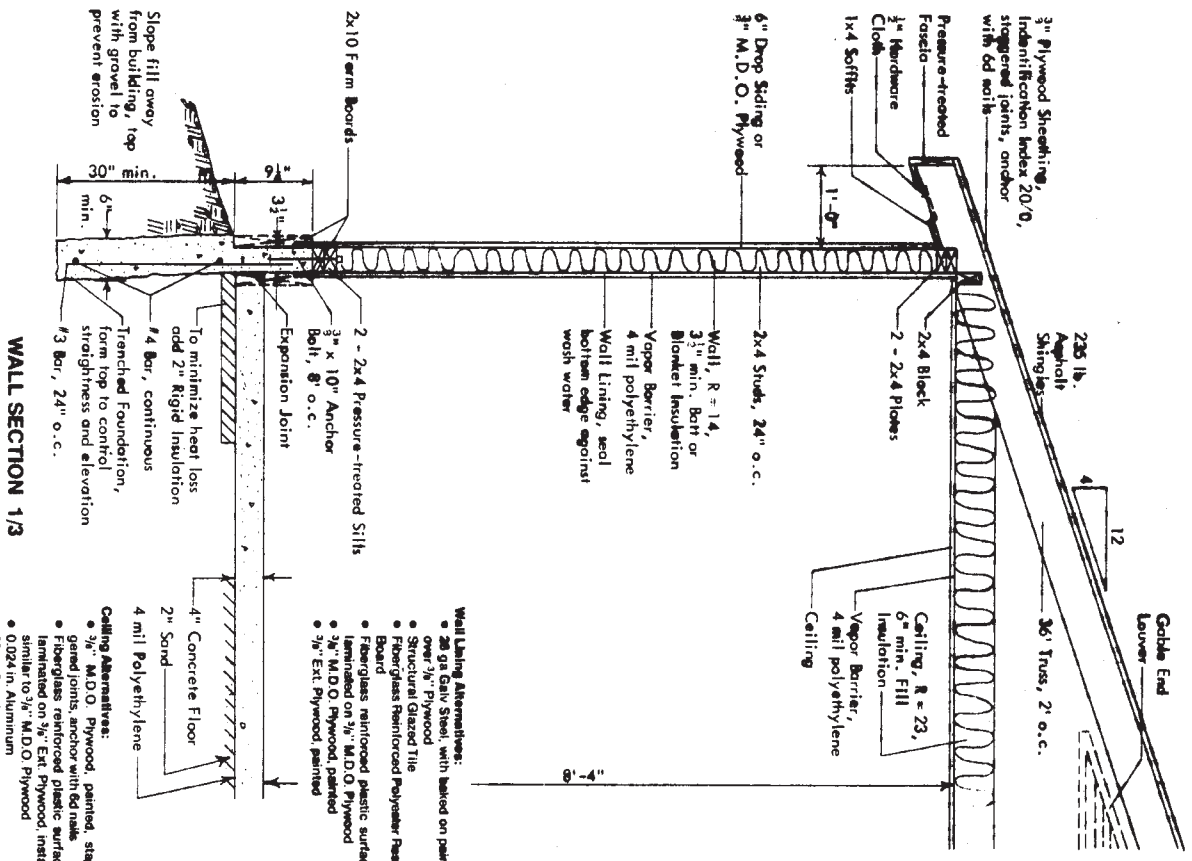
Holding and maternity areas are not included.

Building	Double 4	Double 6	Double 8
Foundation	9 \$	10.5	11.5
Concrete, cubic yards	290	315	340
Steel, Grade 36, lbs	20	23	26
Floor	400	440	480
Concrete, cubic yards	1650	1770	1890
Sills (preservative-treated)	24	24	27
2x4's, ft	21	24	27
2x6's, ft	21	24	27
36" Span	21	24	27
Roof Sheathing	1600	1850	2100
3/4" Plywood, sq ft	1600	1850	2100
Shingles	1600	1850	2100
235 lb Asphalt, sq ft	1350	1450	1550
Siding, sq ft	2450	2650	2850
Wall Lining, sq ft	1450	1675	1900
Insulation	1100	1200	1300
Ceiling, sq ft	9	9	9
Wall, sq ft	3	3	3
Floor Drains	12	12	12
Windows	3	3	3
Doors	12	12	12
Removable Panels	3	3	3

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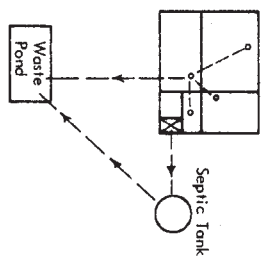
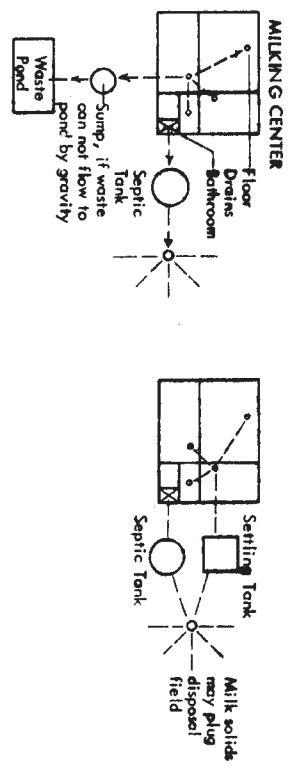
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WALL SECTION 1/3

- Well 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
- Ceiling Alternatives:**
- 3/8" M.D.O. Plywood, painted, staggered joints, anchor with 6d nails
 - Fiberglass reinforced plastic surface similar to 3/8" M.D.O. Plywood
 - 0.024 in. Aluminum
 - 28 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.**



MILKING CENTER WASTE DISPOSAL 2/3

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

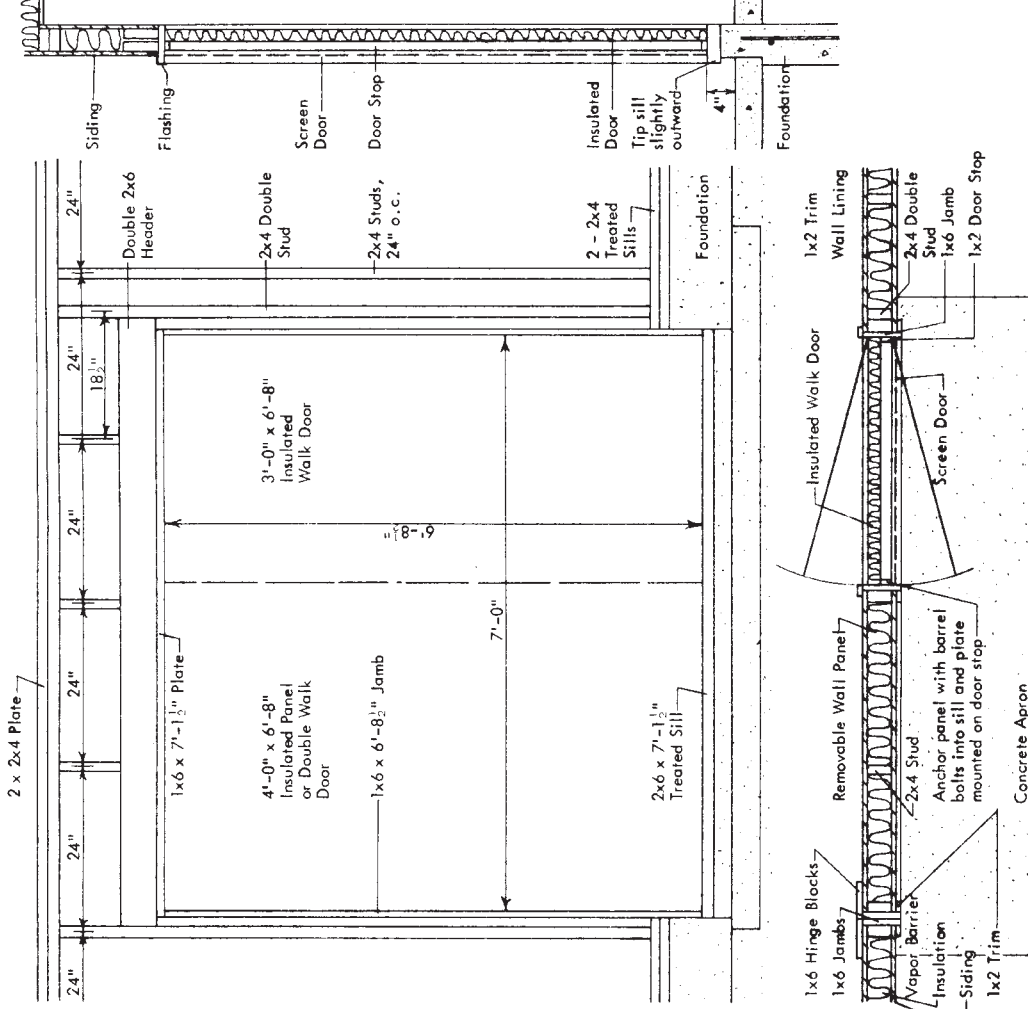
Check your waste disposal plan with local health authorities.

Lumber Specifications

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

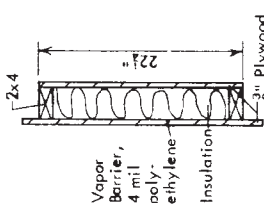
Trusses
No. 1 (Doug Fir, Southern Yellow Pine, or Hem-Fir) See truss page.

Plywood
Roof Sheathing—3/8" C-C Ext. (Identification Index—2000)
Sills and Fascia
Pressure Preservative Treated (Southern Yellow Pine or equivalent)
Creosote—8 pct, Paints—0.40 pct, ACC—0.25 pct, ACA or CCA (Type A or B)—0.23 pct.



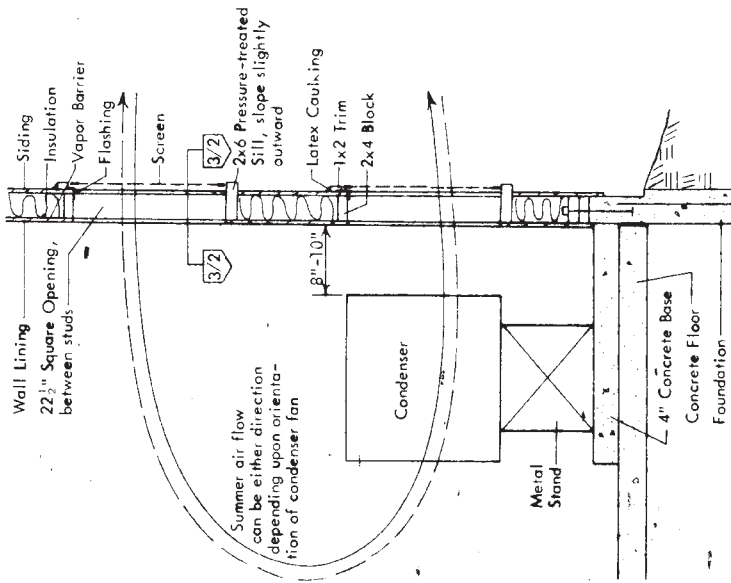
**WALK DOOR AND REMOVABLE PANEL
DETAIL 4/4**

Seal trim and flashing with latex caulking.

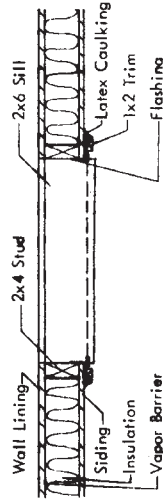


**REMOVABLE WALL
PANEL 3/4**

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



CONDENSER VENTILATION DETAIL 1/4



SECTION 2/4

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