

# MWPS-72354

## Dairy Barn-200 Free Stalls

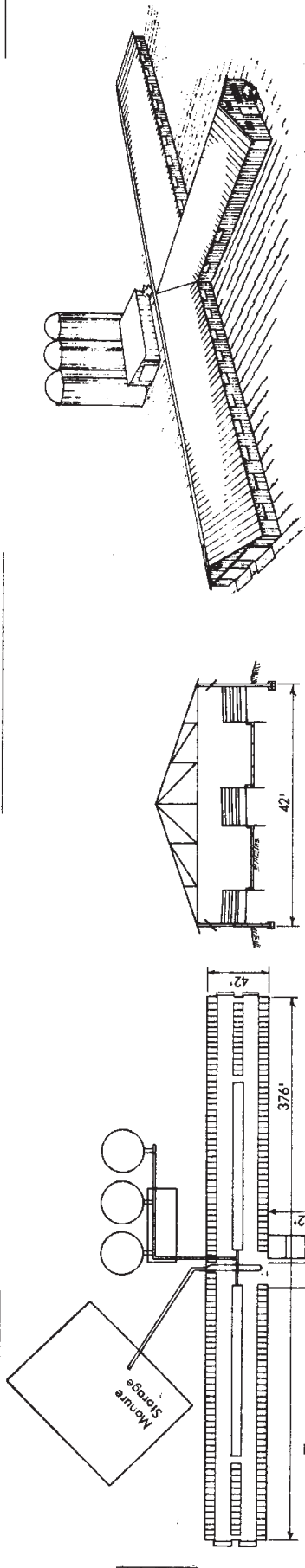
### **CAUTION!**

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.**

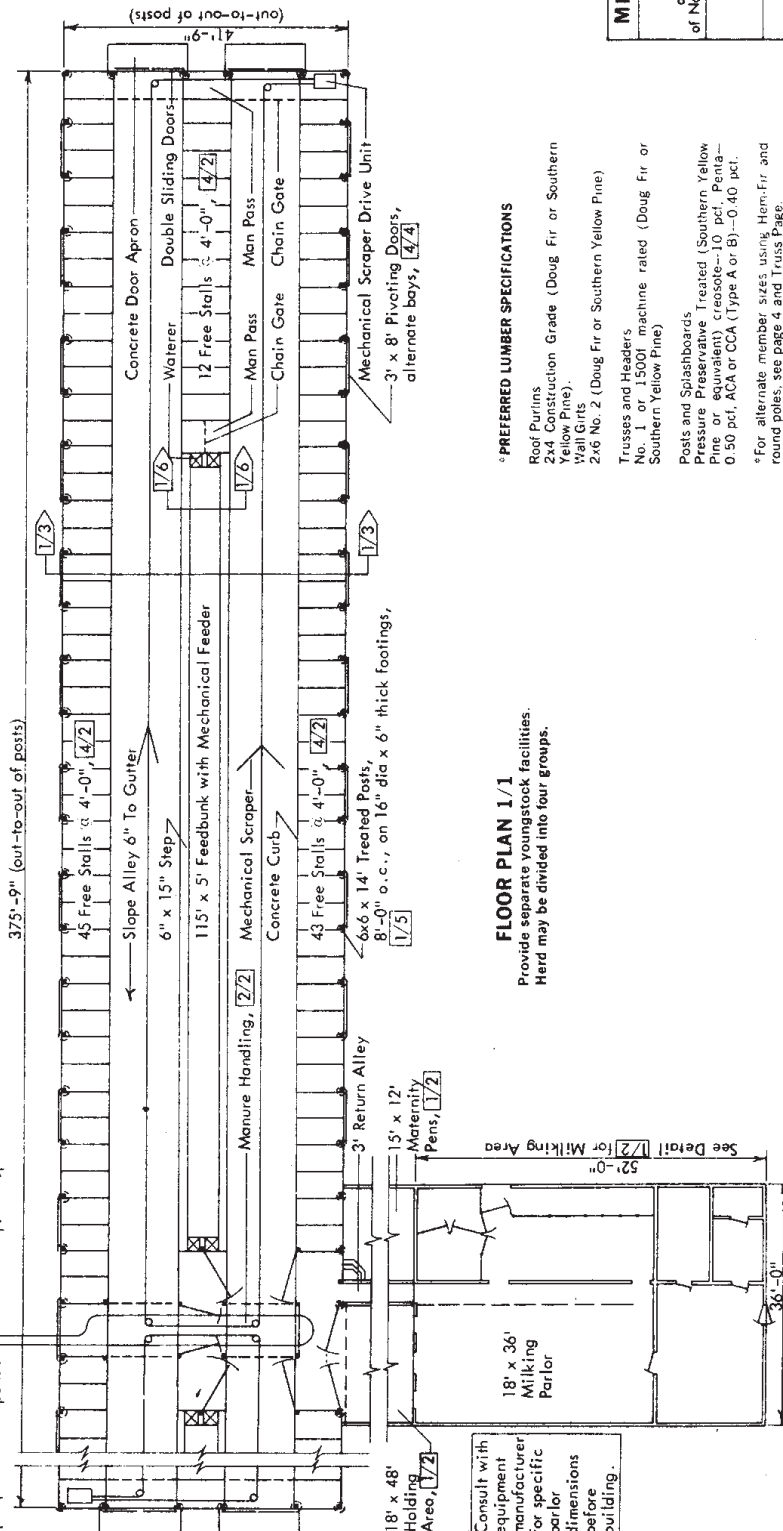
### **WARRANTY DISCLAIMER**

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.

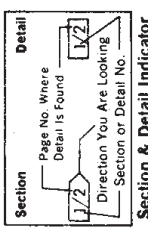
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Cooperative Extension Work in Agriculture and Home Economics and Agricultural Experiment Stations of North Central Region - USDA Cooperating
Dairy Barn-200 Free Stalls
Title Page
MIDWEST PLAN NO. 72354



Manure handling alternatives:  
concrete pad and manure spreader;  
manure stacker; piston manure  
pump to manure pond.



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



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**FLOOR PLAN 1/1**

Provide separate youngstock facilities.  
Herd may be divided into four groups.

Consult with  
equipment  
manufacturer  
for specific  
parlor  
dimensions  
before  
building.

**\*PREFERRED LUMBER SPECIFICATIONS**

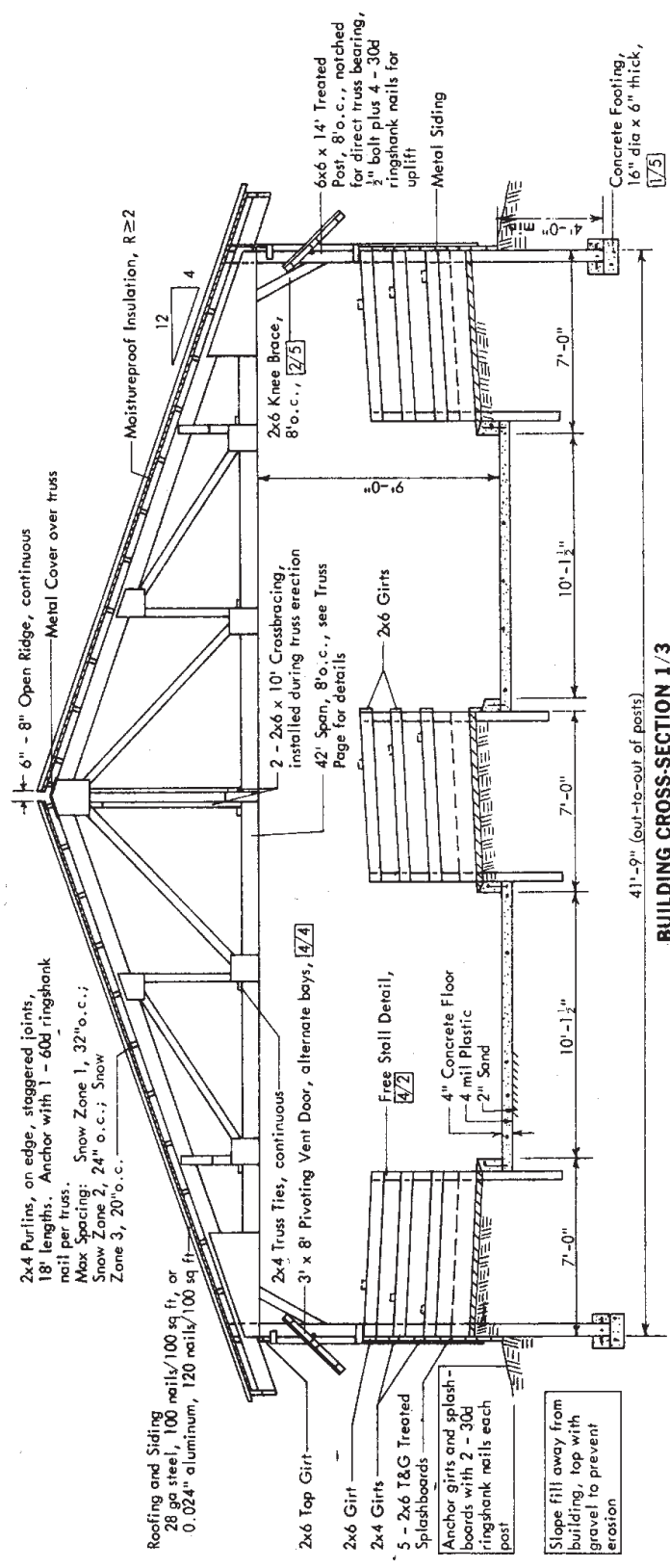
- Roof Purlins  
2x4 Construction Grade (Doug Fir or Southern Yellow Pine).
- Wall Girts  
2x6 No. 2 (Doug Fir or Southern Yellow Pine)
- Trusses and Headers  
No. 1 or 1500I machine rated (Doug Fir or Southern Yellow Pine)
- Posts and Sashboards  
Pressure Preservative Treated (Southern Yellow Pine or Luvinate) Cripple--10 pcf; Pencil--0.50 pcf, ACA or CCA (Type A or B)--0.40 pcf.
- \*For alternate member sizes using Hem-Fir and round poles, see page 4 and Truss Page.

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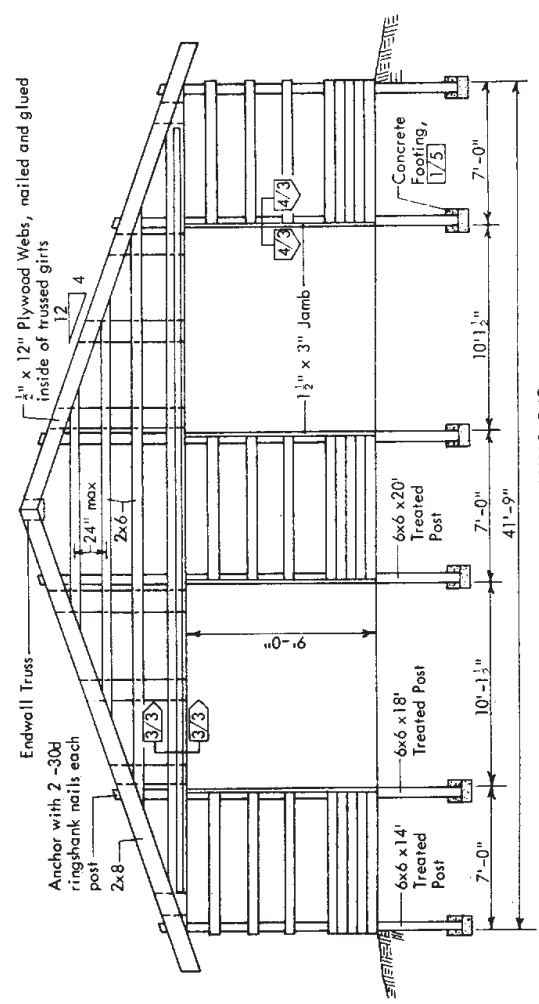
**DAIRY BARN**  
200 Free Stalls

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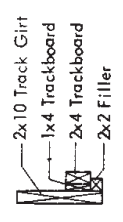




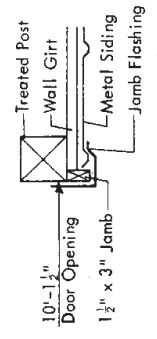
**BUILDING CROSS-SECTION 1/3**



**ENDWALL FRAMING 2/3**

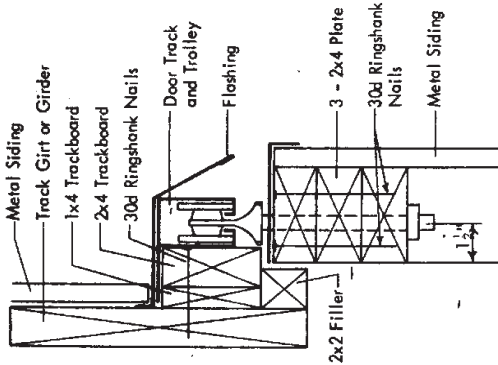


**TRACK GIRT SECTION 3/3**

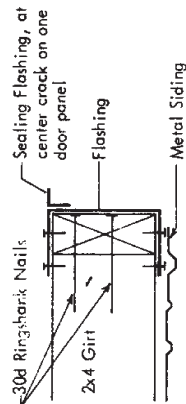


**JAMB SECTION 4/3**



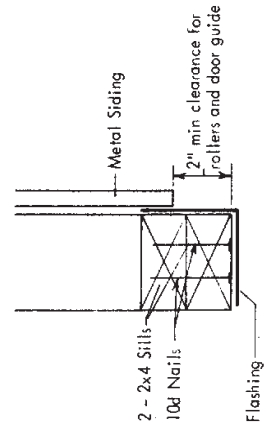


**DOOR TRACK ASSEMBLY 1/5**

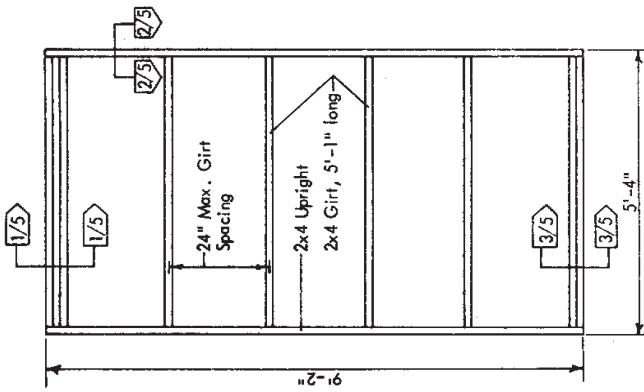


**UPRIGHT SECTION 2/5**

Extend flashing around uprights and nail to girts and uprights.

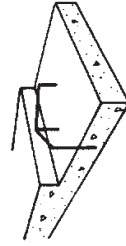


**SILL SECTION 3/5**



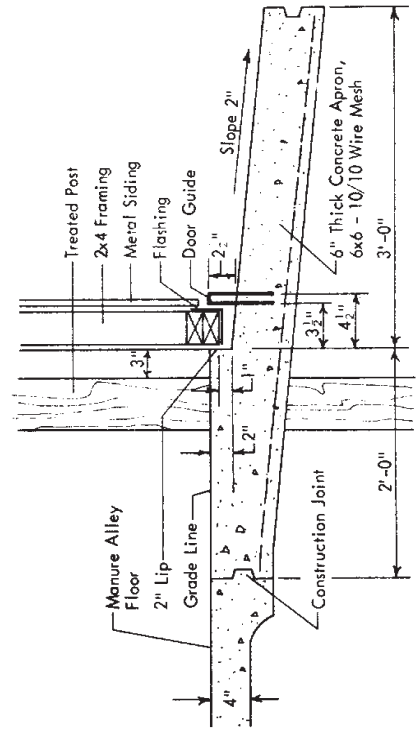
**DOUBLE SLIDING DOOR 4/5**

2x4 Framing



**"U"-Shaped Door Guide**

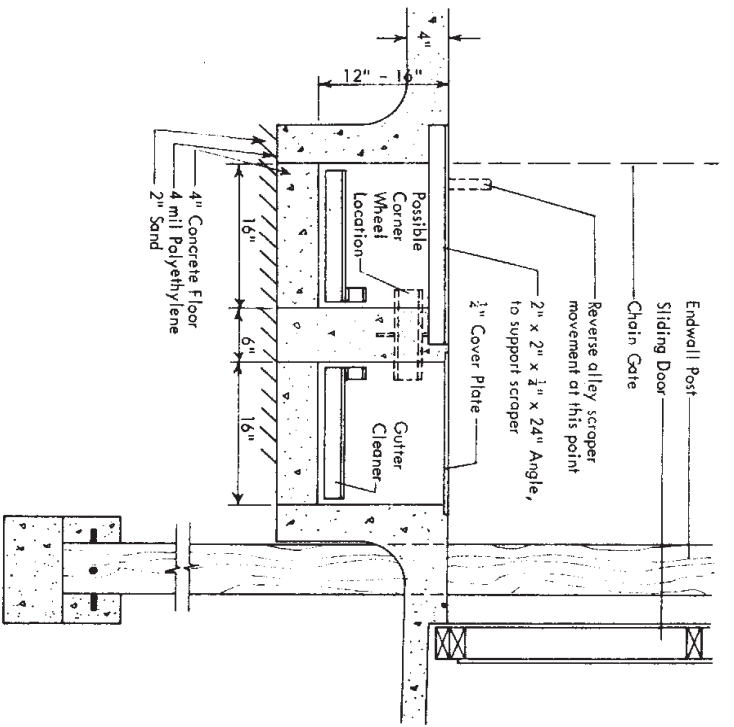
Locate  $\frac{1}{2}$ " dia x 20"  $\frac{1}{2}$ "-shaped door guide at center of door opening. Break at center to force closing door against apron lip. Taper from  $4\frac{1}{2}$ " end to  $3\frac{1}{2}$ " center clearance.



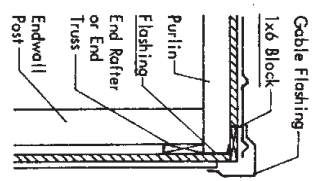
**SLIDING DOOR APRON 5/5**

Set adjustable roller guides in the concrete apron at door jamb. Use door stops as required.

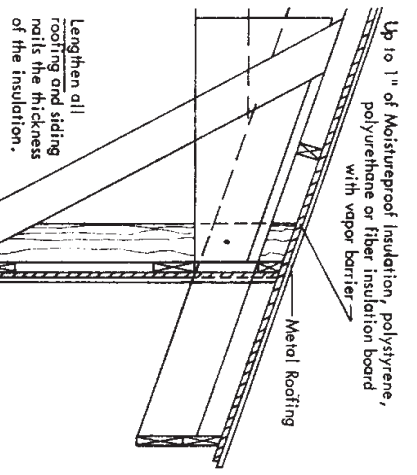
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<b>DAIRY BARN - 62 FREE STALLS</b> Mechanical Waste Scraper
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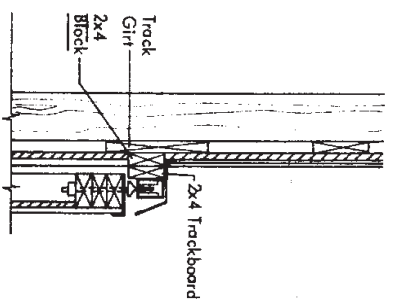
**GUTTER CLEANER CROSS-SECTION 1/6**  
**IMPORTANT:** Use a flexible gate and reverse alley scraper movement at near edge of gutter to prevent possible cow injury.



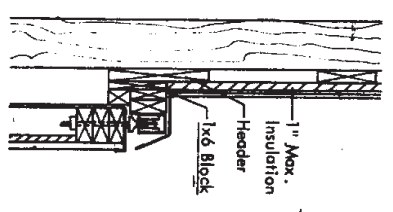
**TYPICAL GABLE END SECTION 2/6**



**TYPICAL WALL SECTION 4/6**



**ENDWALL SECTION 3/6 With Sliding Door**



**ENDWALL HEADER SECTION 5/6**

2x4 Treated Guide-board, ripped to 2 1/2\"/>

**INSULATION DETAILS**

Underlines show materials that change when insulation is added.

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