

Horse Buildings and Equipment: a catalog of plans

James S. Boyd, Department of Agricultural Engineering
Harlan D. Ritchie, Department of Animal Science

THE PLANS LISTED HERE are generally adapted to Michigan conditions. Most animals can tolerate cold weather as long as they are protected from rain, snow and wind. For a small number of animals the building should not be enclosed tightly but should have openings so air can move through to remove the moisture produced by the animals and from the manure.

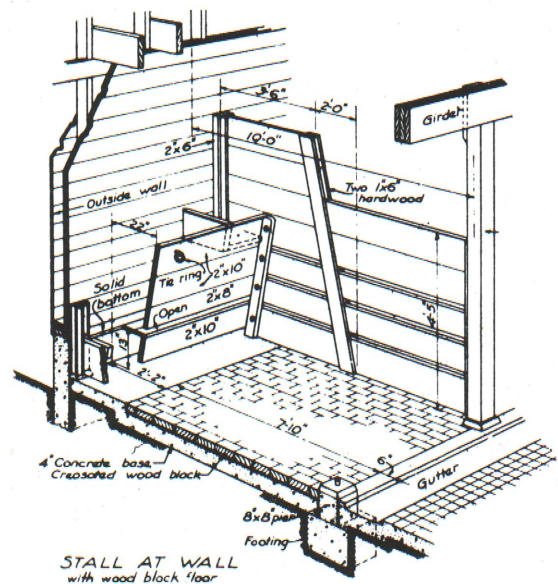
Most of the structures shown can be built from a variety of materials. Home-grown native wood is plentiful and works well for most of the plans.

Where wood is in contact with the ground, pressure treated wood is desirable. Examples are skids, and poles set in the ground.

The following are suggestions to make buildings more usable and prevent problems.

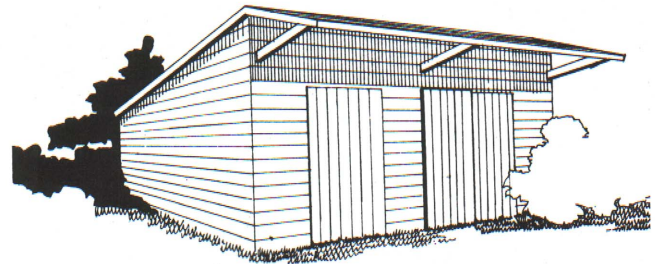
1. Find out if there are any municipal zoning ordinances or other regulations that prohibit or govern keeping livestock in your area.
2. Locate structures on a well-drained site that is conveniently accessible.
3. Provide adequate space for other animal needs and activities around the barn such as grooming areas, riding rings, pastures, paddocks and corrals.
4. Determine how many animals are to be handled and provide needed facilities and buildings.
5. Plan and provide for adequate feed storage and a water supply and distribution system. This may be around lots or out in the pastures.
6. Select gate or door latches or locks that provide the level of security needed for both animals and equipment.
7. Have a plan for manure management and fly control.
8. Determine what fire protection service is available and provide emergency protective equipment on premises.
9. An overall land-use plan and building location plan will help to obtain a convenient arrangement and present a pleasing appearance. This is becoming important where the lots are visible to the public.

The plans shown here and others may be obtained through your county Extension office or from the Department of Agricultural Engineering, Michigan State University, East Lansing, MI 48824.



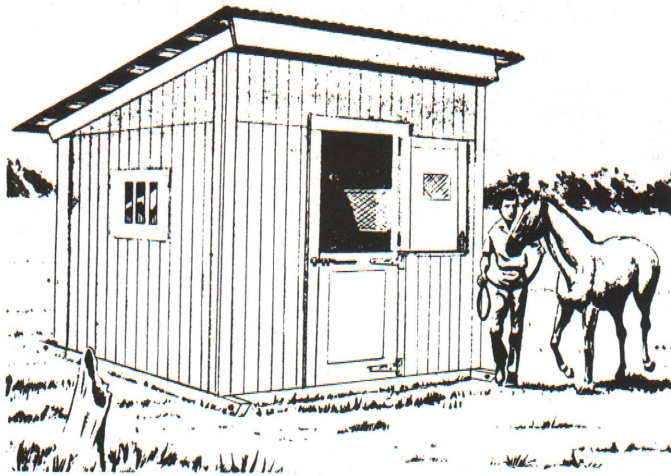
HORSE STALLS 5175-1 sheet, \$1.00

This plan shows how to construct three different horse stalls with three kinds of floors. The face-in stall has a concrete floor, the face-out stall has a plank overlay floor, and the stall at wall has a wood block floor.



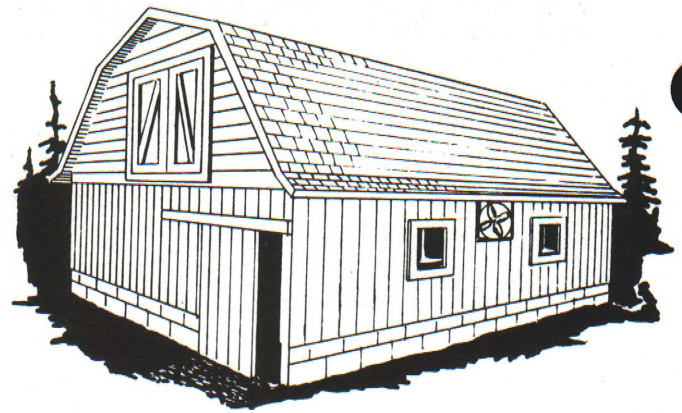
EXPANDABLE HORSE STABLE 722-CI-16-4 sheets, \$2.00

This expandable horse barn starts out as a 12' x 20' unit with one box stall and storage for tack, grain, hay and bedding.



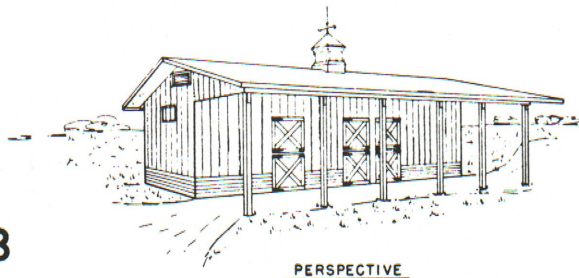
PORTABLE STABLE FOR A HORSE 6082—2 sheets, \$2.00

This 10' × 12' portable one-horse stable is planned for economical use of materials with a minimum of waste. It is of wood construction with a corrugated aluminum or galvanized steel and translucent plastic roof.



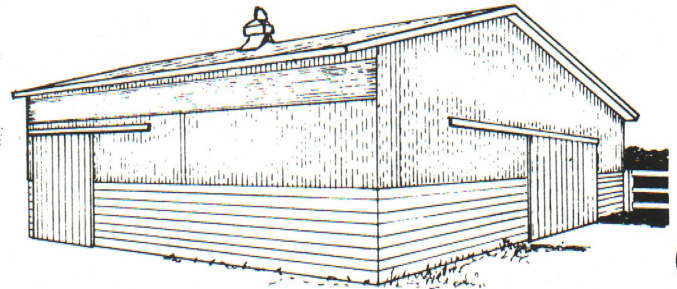
GAMBREL ROOF HORSE BARN 722-CI-13—3 sheets, \$2.00

This 16' × 24' gambrel roof horse barn provides either three tie stalls or two box stalls. Both styles include overhead hay storage for 3½ to 4 tons of hay. Tack and grain storage areas are also included.



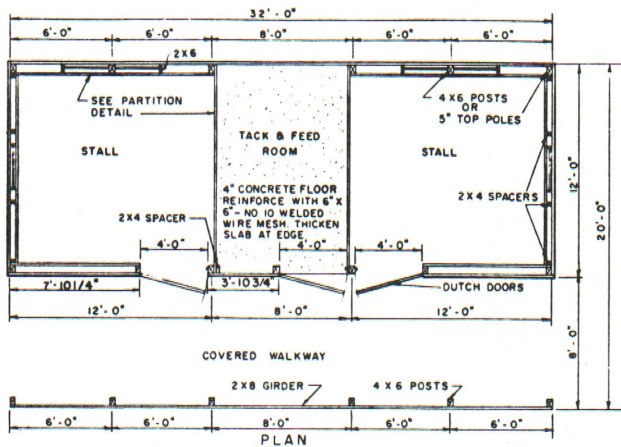
6118

PERSPECTIVE



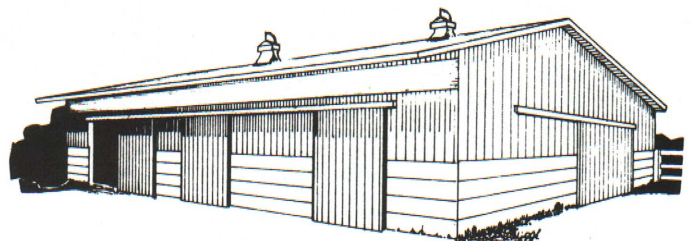
HORSE BARN-POLE CONSTRUCTION 722-CI-14—4 sheets, \$2.00

This 24' × 24' pole barn has two 12' × 12' box stalls that provide ample space for foaling or for large horses. Tack room can be heated, if desired, and there are storage areas for grain, feed and bedding.



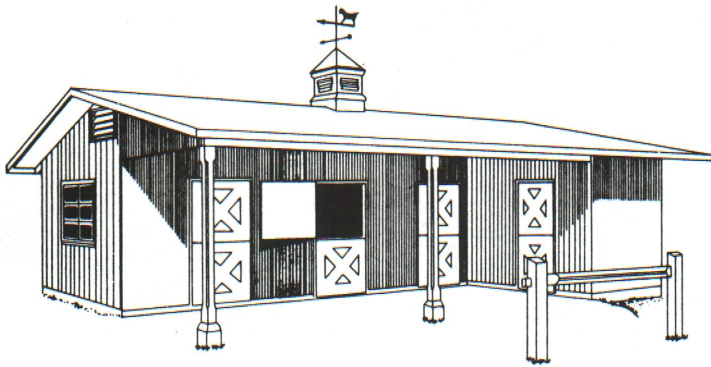
TWO-STALL HORSE BARN 6118—3 sheets, \$2.00

This two-stall pole-barn horse stable features a combination tack and feed room. This plan provides the one- or two-horse owner with a stable that has the maximum amount of functional features at low cost. The total dimensions are 20' × 32' and there is an 8' wide covered walkway.



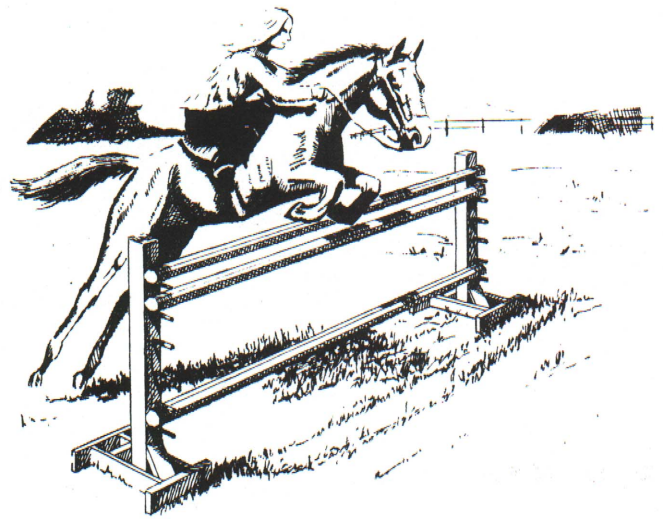
THREE BOX STALL HORSE BARN 722-CI-15—4 sheets, \$2.00

This 36' × 24' one-story horse barn is similar to plan 722-CI-14 except that it provides three 12' × 12' box stalls and additional area for equipment storage.



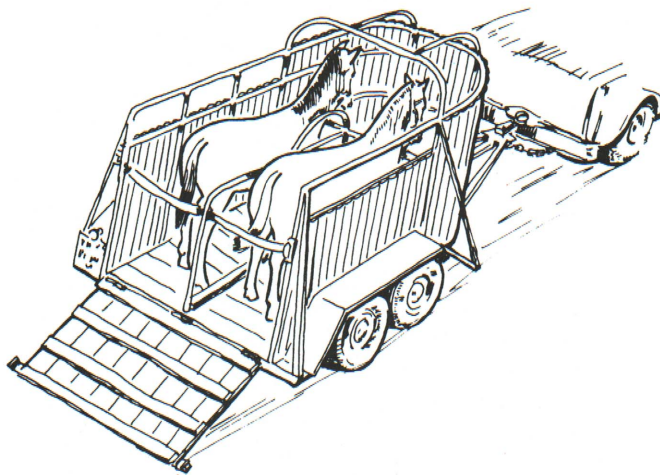
RIDING HORSE BARN 5838—2 sheets, \$2.00

Two 12' × 12' box stalls with clay floors, a 6' × 8' tack room, and an 8' × 12' feed room are features of this 22' × 34' horse barn. It has a concrete foundation with stud walls and a single roof. There is a large covered area in front of the stalls, and Dutch doors provide entry to the stalls. The barn may be expanded.



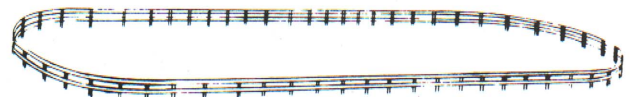
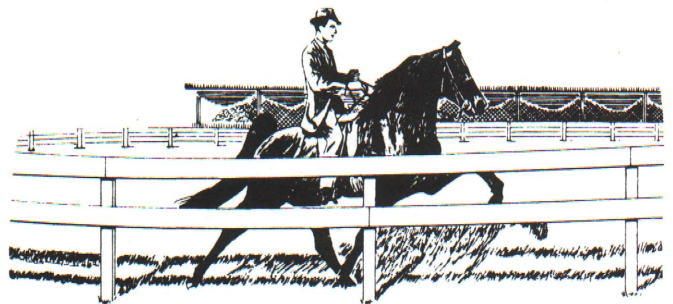
HORSE EQUIPMENT FOR FIELD EVENTS 6014—4 sheets, \$2.00

This plan includes several jumps for use in horse shows and training: white rail jump, natural rail (hunter's) jump, brush jump, coop wing, and picket jump. The jumps are sturdy and designed to withstand a lot of abuse, yet they can be moved and stored when not in use.



TWO-HORSE TRAILER 5943—2 sheets, \$2.00

Complete construction details for a two-horse, four-wheel, tandem axle trailer are shown. The frame is 1" pipe and 3" channel iron; there are no springs. The sides are corrugated metal and the tailgate plywood. The canopy frame is covered with canvas.



OUTDOOR RING - 120' X 240'

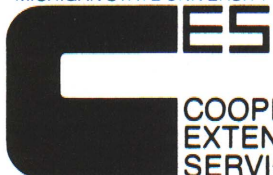
HORSE SHOW RINGS 6015—1 sheet, \$1.00

The plan details construction of horse show rings in sizes recommended by the American Horse Show Association—110' × 220' for indoor events and 120' × 240' for outdoor events. Three different fence styles are shown: board fence, natural rail fence and movable fence. A ring should be sloped away from the center and should be grassed in the center, if possible. It should also be free of cobbles and other trash which can injure the horses' hoofs.

HORSE HANDBOOK, HOUSING, AND EQUIPMENT MWPS-15—60 pages, \$5.00

This is a complete handbook of information for planning housing for horses. It includes suggestions for many different types of buildings. The need for ventilation and proper insulation is discussed and where auxiliary is needed. Special equipment for horse care is shown such as a tack room, equipment, gates, jumps, loading chutes and many others.

MICHIGAN STATE UNIVERSITY



MSU is an Affirmative Action/Equal Opportunity Institution. Cooperative Extension Service programs are open to all without regard to race, color, national origin, sex, or handicap.

Issued in furtherance of cooperative extension work in agriculture and home economics, acts of May 8, and June 30, 1914, in cooperation with the U.S. Department of Agriculture. Gordon E. Guyer, Director, Cooperative Extension Service, Michigan State University, E. Lansing, MI 48824.

This information is for educational purposes only. Reference to commercial products or trade names does not imply endorsement by the Cooperative Extension Service or bias against those not mentioned. This bulletin becomes public property upon publication and may be reprinted verbatim as a separate or within another publication with credit to MSU. Reprinting cannot be used to endorse or advertise a commercial product or company.

(Reprint) 2-5M-10:84-UP, TCM, Price 20¢, Single copy free to Michigan residents.

FILE: 19.55

O-14902