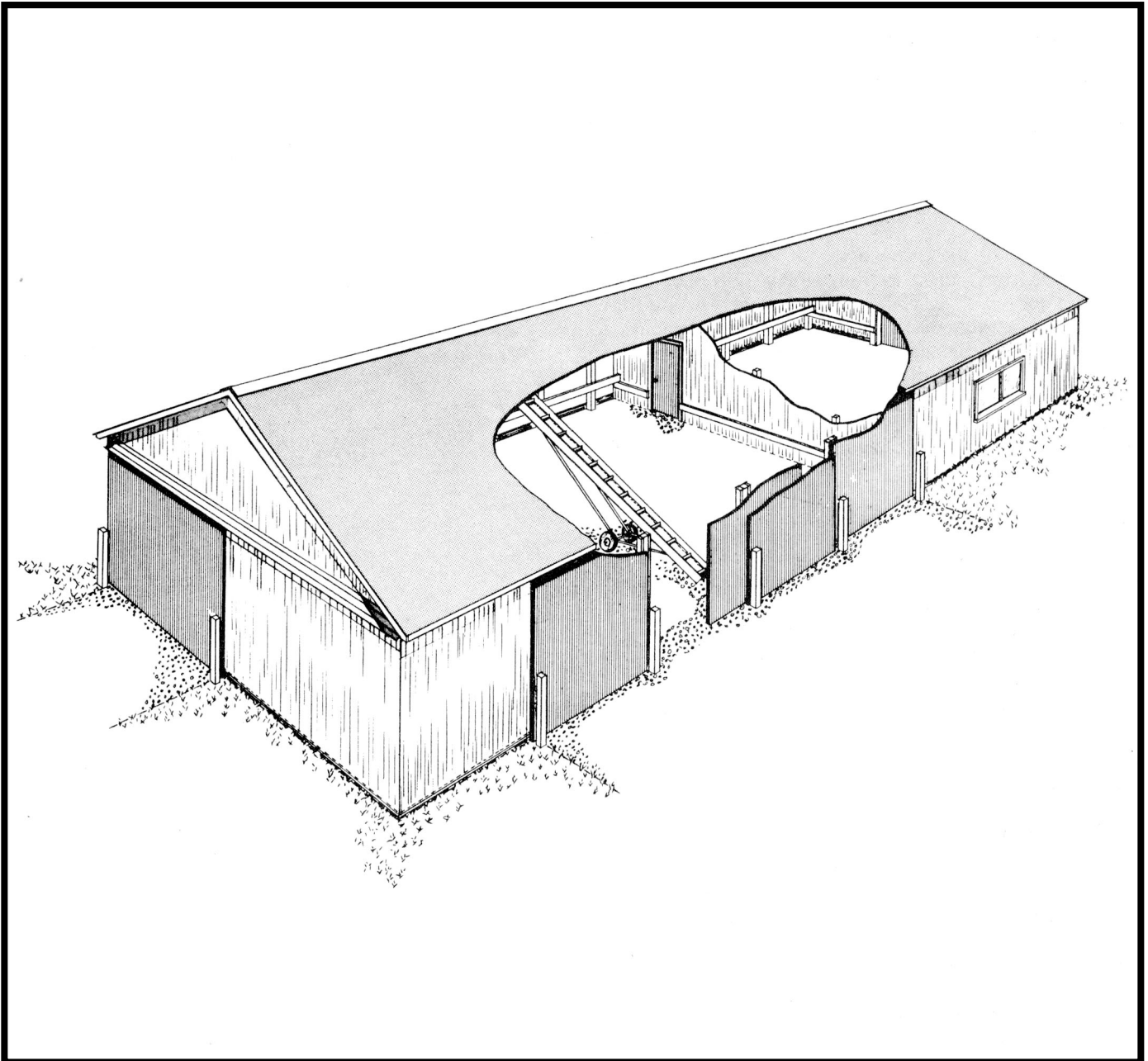


MACHINERY STORAGE – (SIDE DOORS) POLE FRAME



CANADA PLAN SERVICE

MACHINERY STORAGE (SIDE OPENING DOORS)

**CPS
PLAN 8312 REVISED 6:76**

This plan gives construction details and floor plan for a farm implement storage building 32 ft wide. The roof is supported with clear-span nailed lumber trusses, making it convenient to move machines in and out of storage.

The floor plan shows an uninsulated storage area 32 x 60 ft with gravel floor, and an attached insulated workshop area 32 x 32 ft with concrete floor. At planning stage, the lengths of these two area can be increased or decreased in increments of 4 feet, corresponding to the usual spacing of the trusses.

MACHINERY STORAGE AREA

Some operators like to have a series of doors along one long wall of the storage. With this arrangement, storage space can be fully utilized by pre-sorting machinery in the open yard in front of the doorways so that the last machine stored will be the first to be used the following season. Building span should not be more than 32 ft, otherwise too many machines will be inaccessible.

Since the weight of the trusses and roof rests on beams over each front doorway, the plan shows only 12-ft slide doors here. These doors will accommodate most farm machines, but for the occasional wider unit as the swather or combine, a special door is recommended in the endwall where the end roof truss can support the head of the doorway; a 14-ft doorway is shown, but a 16 or 20-ft double door could be used here if necessary. For opening wider sliding doors, the door track can be extended beyond the outside corner and carried on a post.

POLE FRAME CONSTRUCTION

Pressure-treated wood poles make a strong and rapid construction for machinery storage walls. The plan gives required sizes of swan poles for wall heights of 10, 12 and 14 feet. Round treated poles of equivalent cross section could be used, but most builders prefer to spend a little more for the sawn poles in order to save construction time.

The plans include a diagram for selecting the minimum safe sizes of round or sawn poles. To use this diagram, refer to the National Building Code of Canada for design wind and snow loads in your area.

OPTIONAL INSULATED WORKSHOP AREA

Some farmers will want to add the insulated workshop area for machinery overhauls in winter. Construction is similar to the storage area except that fiberglass insulation batts are fitted between the wall girts and between the trusses at the ceiling. Galvanized steel roofing or other fire-resistant cladding is suggested for interior finish. Double sliding doors into the shop area can be made wide enough to clear the widest machine on the farm.

STORAGE FOR TALL MACHINERY

Where side doors are not required, several alternate framing systems can have greater vertical clearance at center-span than the W-truss shown in this plan. Five of these alternates are shown without detail.

These alternate frames are not cross-tied at the ceiling, and roof weight produces powerful outward forces at the top of the foundation. To prevent overturning, be careful to build the special foundation recommended by the frame supplier.