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has enormous strength and power. Until you see a Kirstin at work you cannot realize what wonderful power is developed by our system of compound leverage. The work positively is easier, to say nothing of being quicker and cheaper than with the cumbersome hand power pullers or the big horse-power pullers that require a team and two or three men to operate.

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which explains all about the Kirstin, tells best way to clear land, describes Kirstin Service, Liberal Tryout Offer, Easy Payments, etc. Get this book before you buy a stump puller. Write today—now. Agents Wanted

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Rough
Ground
or
Thick
Timber



A. J. KIRSTIN CANADIAN CO.
5509 Dennis St., Sault Ste. Marie, Ont.



A Model Dairy Barn

Simple but economical in layout, and planned for the installation of all modern barn equipment.

Guide Barn Plan No. 4 is designed to suit the needs of the up-to-date dairyman. It is a 66 by 34 feet dairy barn with silo and milk house attached. The layout provides stabling for 28 head of cows besides a calf pen, bull pen and feed room.

The foundation is concrete, wall extending about one foot above ground level. Floors and mangers thruout are concrete also. The stalls are steel stanchions, making the most sanitary layout besides offering as little obstruction as possible to the thorough lighting of the interior. The question of light, always an important one in all barn construction, is doubly so in a dairy barn. Ample care has been taken of this feature in this barn by providing twenty-two large twelve-light windows, 8 by 10, spaced six feet apart. In the west end too, where the milk house and silo are situated, a large transom is shown over the feed room door, while in the opposite end two windows are provided for between the three sliding doors.

Stable is Lined

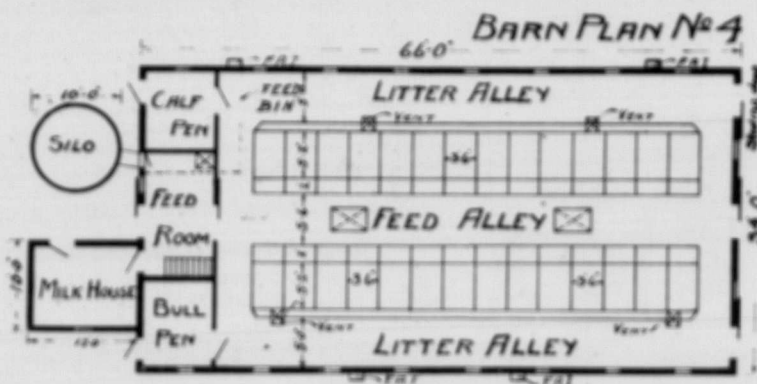
The height of the stable is 9 feet and the estimate calls for an outside wall to the eaves of 14 feet. This can be increased if desired to suit individual re-

quirements, doing away largely with the difficulty often encountered of ventilator shafts becoming clogged up at the bend or elbow. The shafts are equipped with metal cowls.

Built up Feed Chutes

Two large feed chutes are shown in the plan opening into the feed alley. For convenience in throwing down feed when the loft is full these should be built up a few feet, having openings left in the sides every couple of feet, so that hay and straw can be readily thrown down thru without first having to dig down a hole to the feed opening. A feed bin is shown on the loft floor. This can be made of a size to suit the builder. One alteration which might be made with advantage would be to carry the feed room out up to the end cow stalls. This would take away the passage way, but the added space to the feed room would more than make up for this small change.

Some will no doubt object to having the milk house close up to the barn, but it can easily be separated if desired, the only difference being the added cost of one wall in place of the side of the barn as at present planned. The hay doors should be hung on a track and provided with balance weights.



quirements. Walls are sheathed with re-sawn lumber and siding up to the top of stable joints, with siding above up to the eaves. The stable is lined with ship-lap.

Specifications call for the loft floor being tongued and grooved flooring, but paper and another ply of wood on the floor would eliminate dust falling into the stable below. To reduce the cost of this extra ply of flooring, two ply of common lumber and paper can be used.

The Rutherford ventilation system is installed, the outlet shafts being so placed that any drip will fall directly into the gutter, rather than on the cows' backs. These flues are built straight up, which is a distinct advantage under western

A small door at the end of the barn is shown which will be handy to use when an odd load of sheaves or hay has to be unloaded, and doors can be made in the sides of the barn to put in the blower from the threshing machine when straw is to be put in the loft.

The silo as planned is 28 feet high, stave construction with a concrete base.

Plenty of space has been provided in the layout for litter or feed carriers to be installed, and a track with slings or hay fork in the loft is a necessity.

The cost of this barn, exclusive of the extra fittings just mentioned will be around \$2,000.

COST OF WORKING DRAWINGS

For any who desire to build this kind of barn complete working drawings have been prepared by a competent architect. These consist of ground plan, side and end elevation on a section showing framing. The complete bill of materials supplied with the working drawings estimates studding at the standard 24 inches on centres. This complete set of plans, from which any experienced carpenter can erect a barn exactly as described, can be obtained for \$1.50. Address all orders to Farm Buildings Dept., Grain Growers' Guide, Winnipeg.

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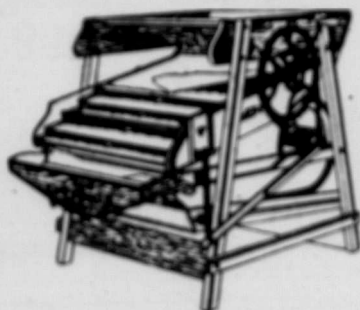
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