

## TO MAKE GUIDE BARN PLAN No. 2 Lightning-Proof and Last 20 or 30 Years

You must cover it with

**"Galt" Steel Shingles and Sidings**  
which will cost \$270.00

Or by economizing in building only a skeleton frame

**"Galt" Galvanized Corrugated Iron**  
will cost \$279.00. Let us send particulars of above

**THE GALT ART METAL CO. LTD.**

CORNER RICHARD AND PINE, WINNIPEG, MAN.

## What It Costs

To Protect Your Barn, Stock and Products From  
**FIRE AND LIGHTNING**  
and make your building permanent and handsome.

We have figured up the Roofing, Siding and Sundries for Barn No. 2 shown in this issue of The Guide, along with the necessary materials for catching and preserving the Rain Water, which from a metal roof is clean and pure, and quote on the materials as under:

For Prompt Acceptance Only

**"JUMBO" Galvanized Steel Shingles and Sundries.**

**"JUMBO" Corrugated Galvanized Siding and Sundries.**

**"JUMBO" Barn Ventilators, two (Fig. 2, Catalogue R.S.)**

**"JUMBO" Slip Joint Eave Trough, Conductor Pipe and Fittings.**

**"JUMBO" Storage Tank, Style "F" No. 1104 Catalogue "T-2."**

ABOVE MATERIAL \$305.36 F.O.B. WINNIPEG

Send for detail of estimate mentioned above or request same from the local "JUMBO" dealer.

## TO BONSPIELERS

If you are coming to Winnipeg bring your measurements. Phone us at Main 774 and we will be glad to meet you where convenient.

**WINNIPEG STEEL GRANARY AND CUVERT LIMITED**

P.O. Box 3054, Winnipeg.

Regina

## MASTER MECHANIC UNION MADE OVERALLS

*Cut Full  
and Roomy*

MADE IN WINNIPEG BY  
**WESTERN KING MANUFACTURING  
COMPANY LIMITED**

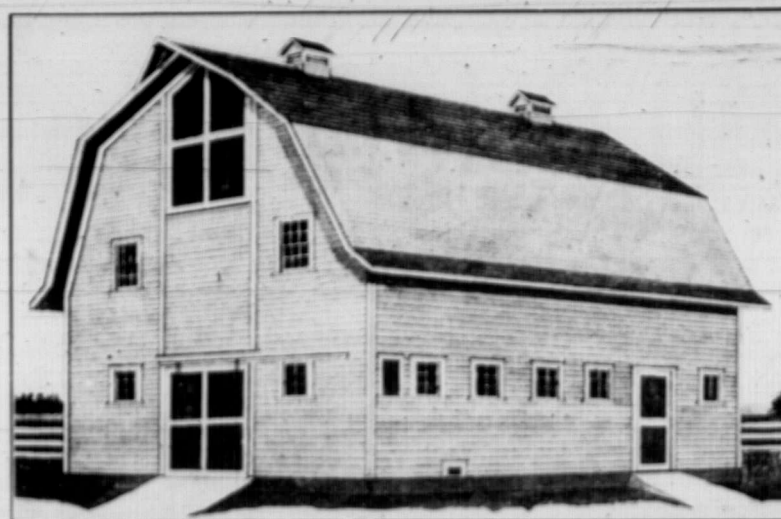
## FARM BLACKSMITHING

By J. W. DREW, Instructor in Blacksmithing, Wisconsin School of Agriculture

A blacksmith shop on the farm may be easily and cheaply built and equipped. With a little practice a farmer and his son can learn to do ordinary blacksmith work without trouble, and may thus spend profitably winter days and stormy days in summer that would otherwise be wasted. This book is written for farmers and their sons for this purpose. It is well illustrated and the information is simply and accurately given so that any farmer will be able to understand it and make use of it. Among the subjects dealt with are: The horseshoeing of the farm blacksmith shop; the use of iron and steel; making door hooks, staples, chains, rings, hooks, clevis, bolts and nuts, welding; making traps; making whitestem brass; forging and tempering steel tools; the use of drills; sharpening planes; shoeing farm horses; the use of files; how to splice rope; how to make rope hammers; how to tie knots; how to tie a cap; tacking for anticipating the signs of hoofs. This book will pay for itself many times over in the hands of any farmer who wants to make good use of his time. Priced 50c.

BOOK DEPARTMENT, GRAIN GROWERS' GUIDE, WINNIPEG

WHEN WRITING TO ADVERTISERS PLEASE MENTION THE GUIDE



## Half Section Man's Barn

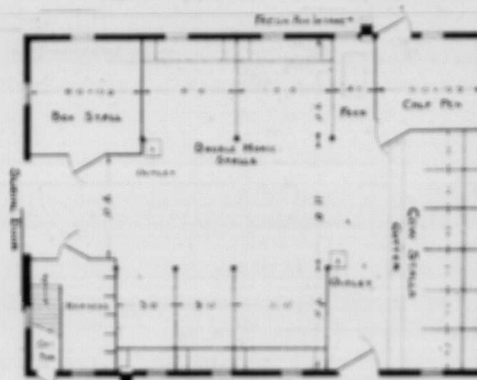
Guide Barn No. 2 Suitable for a Half-Section Farm

The second barn plan has been designed to meet the needs of the man on a half-section farm. It provides accommodation for eight horses and six cows, having in addition a box stall, harness room and calf pen. The building is 30 by 40 feet. The ventilation is the Rutherford system and calls for two intakes and two outtake flues leading straight up to the roof and then following between the rafters out at the cupolas at the peak. The foundation floor is concrete thruout, cement for which will cost L.C.L. Winnipeg about \$84. A much more satisfactory stable in every way will result if a concrete floor is made, but perhaps if good gravel is available to put in the stalls it may be worth while for the builder to do without cement for a year or two. The siding is made up of half inch resawn up to the top of joists.

the addition at the other end of the barn facing the present stalls. By putting on eighteen feet room could be provided for eight more head of stock. This would allow sufficient width to have a feed passage between the two rows of stock. A feed mixing room would have to be provided, and the calf pen could be used for this purpose, provision being made for a calf pen in the addition. The cost of such additions can easily be roughly estimated by taking the total cost of the barn and finding out just about what each foot cost.

### Partitioning the Stable

If the addition is made to the cattle end it would be quite easy to shut off this portion from the horse stable by building a partition across the stable using sliding doors. A water trough



This is covered with paper and fir drop siding used for the outside. Inside the studs are not sheathed. Provision is made for an oat bin, under the stairs leading up to the loft, which can be filled from the outside thru a door in the wall.

### Later Additions

This layout adapts itself quite readily to later additions. Should more room be required for horses, the addition could be made on the end next the horse stable. The addition should be carried up all the way, and would merely consist in building another eight feet or so on to that end. It would only be necessary to change the position of the box stall, the harness room and passageway remaining as planned. Should more room be required for cattle, it would be just as easy to make

can be provided just at the junction of the wall, so that it can be used for both horses and cattle. In this case the well could be in the new feed mixing room. In the layout, as planned, the well in the harness room pumping water into a trough built into the wall and projecting about a foot into the passageway would give good satisfaction. Any arrangement the builder desires can be made for feeding the horses, but feed chutes would have to be figured as extra lumber. The estimated cost of this barn is as follows:

Lumber, f.o.b. 10 cent point	\$453.10
Millwork, f.o.b. Winnipeg	22.85
Hardware, paper and paint	58.00
Estimated building cost (labor)	250.00
Cement, L.C.L. Winnipeg	84.00
Total cost	\$867.95

### 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 and section showing framing. The complete set of materials supplied with the working drawings estimates including at the standard 24 inches on centres. In addition there is a drawing giving details of the construction of cow and horse stalls, ventilation shafts and hay fork extension framing. This complete set of plans, from which any experienced carpenter can erect a barn exactly as described, can be obtained for \$1.00. Address all orders to Farm Buildings Dept., Grain Growers' Guide, Winnipeg.