300 Bushels...Plywood Beef

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SEIFFEDER



A self feeder will permit the full feeding of cattle with a minimum of labor. It will also protect your feed from the weather. This self feeder is designed with a widened bottom to permit the feeding of coarse materials such as rolled grain or chopped ear corn with a minimum of plugging. Self feeders must be checked frequently to make sure they are feeding properly.

Plywood is suggested in this plan to insure rigid construction; however, matched boards can be used. For best construction, glue and nail all of the plywood gussets to the framing members. More rigid construction will result if all of the plywood is glued to the framing members.

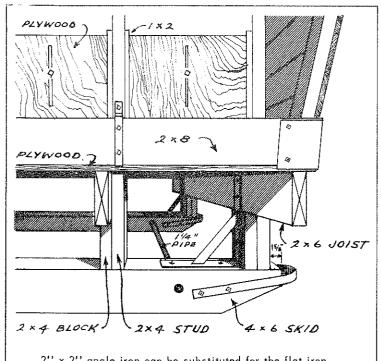
The picture shows a roof with roofing over board roof sheathing. The plan shows an exterior plywood roof with no roofing. It is not necessary to use a roofing material over the exterior plywood roof; simply add the batten strips over the joints between the plywood sheets.

Allow 3 to 4 inches of self feeder bunk space per animal for cattle on full feed. This 16 foot self feeder will feed about 125 head of feeders to finish weights.

A. H. Schulz Extension Agricultural Engineer

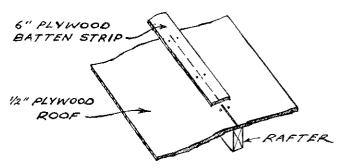
EXTENSION SERVICE

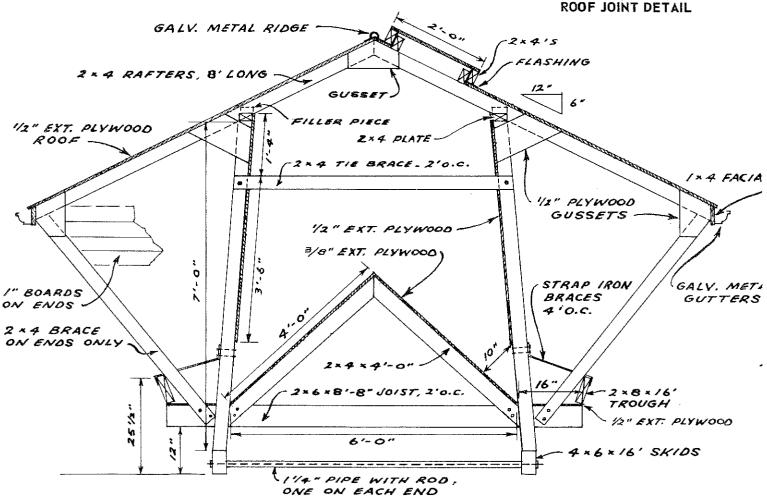
NORTH DAKOTA STATE UNIVERSITY OF AGRICULTURE AND APPLIED SCIENCE



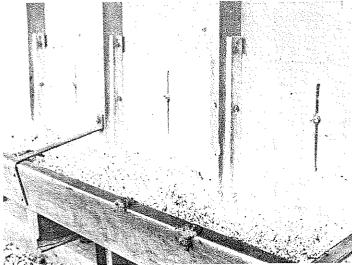
2" x 2" angle iron can be substituted for the flat iron corner braces shown. The pipe spacer between the skids must be installed to prevent the under-structure from pulling together when the self-feeder is moved.

ALTERNATE TOP DOOR DETAIL 2'-0" 1/2" PLYWOOD 2x4 FRAMING FLASHING 2x4 TIF 4'-0" O.C. 2x0x16' HEADER)

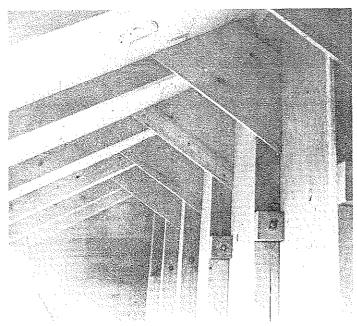




PLAN



Adjustable plywood doors permit adjusting the opening to the feed being fed.



Plywood gussets insure a rigid roof structure. A plywood roof is suggested in the plan instead of the lumber roof sheathing shown.

BILL OF MATERIALS . . .

Pieces	Size	<u>Use</u>
2	4'' × 6'' – 16'	Skids
9	$2'' \times 6'' - 9'$	Floor Joists
1	2'' × 4'' - 16'	Floor Joist Supports
9	2'' x 4'' - 14'	Studs
9	2'' × 4'' – 16'	Rafters
2	2'' × 4'' = 12'	End Braces
2	2'' × 4'' - 16'	Plates
9	2'' × 4'' - 8'	Divider Joists
7	2'' × 4'' - 6'	Tie Braces
2	2" x 8" - 16'	Trough
4	2" × 4" - 16'	Top Door and Door Framing
2	2'' × 4'' - 16'	Filler Pieces
2	1'' × 4'' - 16'	Facia
100 bd., ft.	1" x 6" - drop siding	End Sheathing
24 linu ftu	1 x 2	Adjustable Door Güide::
17 sheets	4' x 8' x ½'' cc	Roof, Walls, Adjustable
	Exterior Plywood	Doors, Filler Door, Gussets, Battens
4 sheets	4' x 8' x 3/8'' cc Exterior Plywood	Center Divider

2 quarts — Resorsinal resin glue or

10 lb. — 8d galvanized nails 3 lb. — 6d galvanized nails

5~# aircraft grade (type AAA $-125~{
m or}$ equivalent) casein glue.

HARDWARE

2 - ½'' x 7' threaded rods	6 - 1/2" x 11/2" x 24" strap iron braces
13 feet - 1¼" galvanized pipe	36 - 3/8" x 4" machine bolts
48 lin, feet — galvanized flashing	$18 - 3/8$ " x $4\frac{1}{2}$ " machine bolts
16 lin. feet — galvanized ridge roll	$6 - 3/8'' \times 2\frac{1}{2}''$ machine bolts
32 lin, feet — 4" galvanized gutters	8 — 3/8'' x 1½'' machine bolts
4 - end skid braces	8 = ½'' x 6'' machine bolts
4 - trough corner metal reinforcing	118 = 3/8" washers
5 lb 16d galvanized nails	