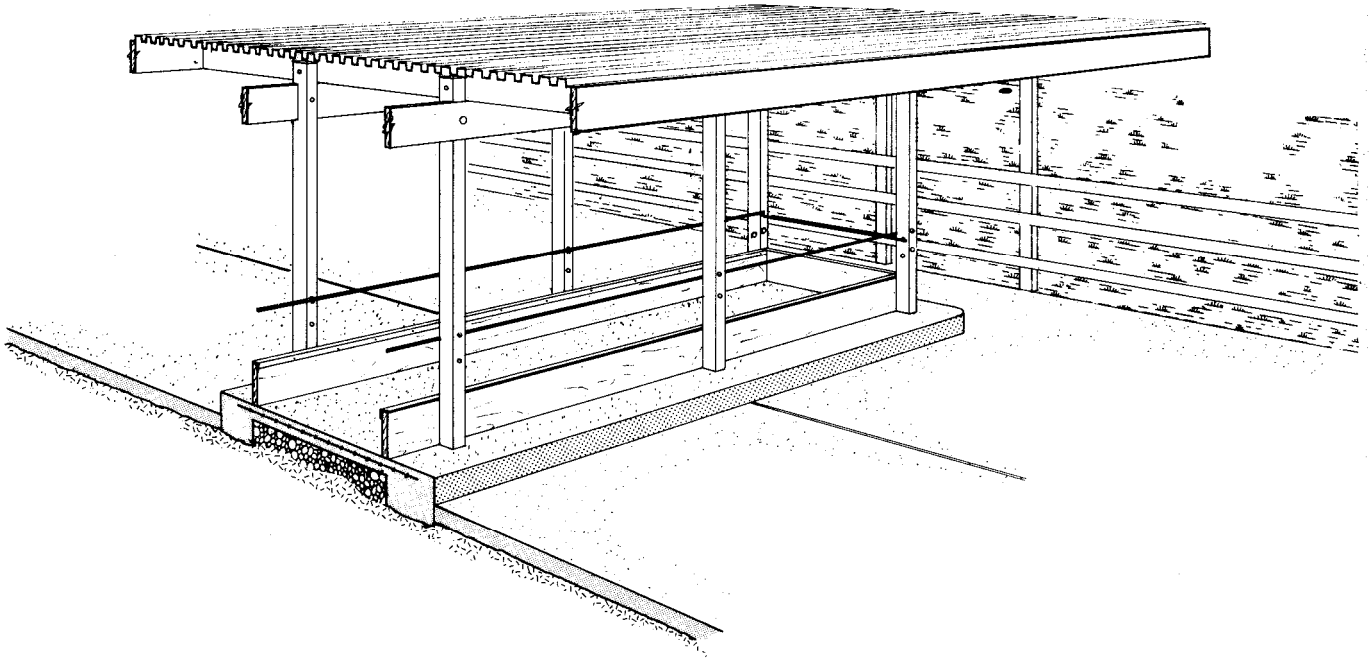
PLAN

1621

COVERED FEED BUNK



CANADA PLAN SERVICE

The Canada Plan Service prepares detailed plans showing how to construct modern farm buildings, livestock housing systems, storages and equipment for Canadian Agriculture.

This leaflet gives the details for a farm building component or piece of farmstead equipment. To obtain another copy of this leaflet, contact your local provincial agricultural engineer or extension advisor.

COVERED FEED BUNK

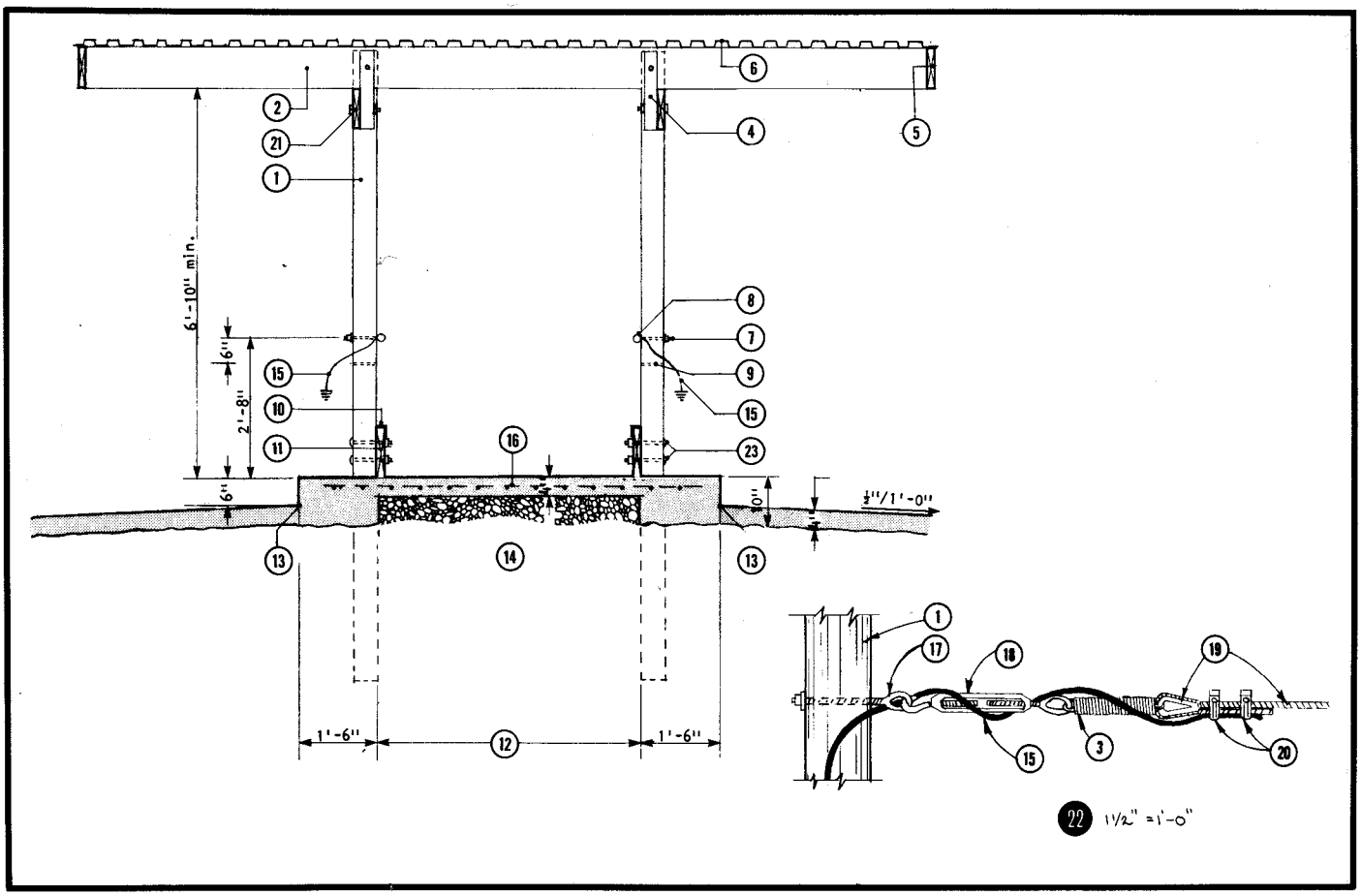
PLAN 1621 REVISED 06:05

Details for a feed bunk with roof are given on this leaflet. This feed bunk can be used for mechanical feeding of chopped forages and concentrates to beef or dairy cattle. Cattle are given access to both sides of the bunk, to minimize the required length.

This structure may be built with or without roof; many cattlemen operating feedlots in hot summer weather or in areas of high rainfall like the roof for a cattle sunshade and to protect the feed from rain. Two roves of pressure-treated wood posts support the bunk sides and roof.

The roof is a simple structure with horizontal rafters supporting deep-profile steel roofing. The roof is not sloped in the conventional way, but is sloped instead towards the outer end of the feed bunk, taking advantage of the drainage slope of the feedlot pavement. This roof can be extended beyond the end of the feed bunk to drain just outside the feedlot perimeter fence; this reduces contaminated feedlot runoff and prevents some icing of the pavement along the bunk.

In small feedlots this bunk can be filled with a bottom-unloading *Bunk Feed Cart* (plan 1622) which rolls along easily on the side planks. For larger herds, use one of the many types of mechanical bunk feeders such as augers, belt feeders or travelling chain conveyors.



1. 5" top, pressure-treated pole, or 4" x 6" P.T. post, 8'-0" o.c. (end post spacing 12'-0" to allow for roof extension outside of feedlot)
2. 2" x 10" x 16'-0" rafters 4'-0"o.c. (2'-8" o.c. for heavy snow areas)
3. spring
4. 4" x 4" x 18" cleat, purlin to rafter except at posts, 1/2" bolts
5. 2" x 10" face board
6. galvanized steel roofing - see manufacturer for gauge and profile to span supports spaced as in 2 ; slope roof to end outside of feed lot
7. 3/8" x 8" eye bolt
8. 3/8" cable or 2" galv. pipe
9. hole for cable height adjustment
10. 1½" x 1½" x 3/16" angle - for feed cart 1622
11. 2" x 12" keeper (minimum)
12. 5'-0" approx., adjust to suit bunk feed cart wheel tread
13. expansion joint
14. rubble or compacted granular fill
15. copper conductor (#8 A.W.G. min.) attached to end post eye bolts only. Ground in accordance with provincial codes
16. 6 x 6 7/7 reinforcing mesh
17. 1/2" x 10" eye bolt
18. 1/2" turnbuckle
19. 3/8" cable with 3/8" thimble
20. clamps
21. 2" x 10" beam, notch into posts (for 12' span, use 1 - 2" x 10" & 1 - 2" x 12" beam)
22. connection detail - copper conductor to post at end of feed bunk (if cable used)
23. 1/2" 0 carriage bolts