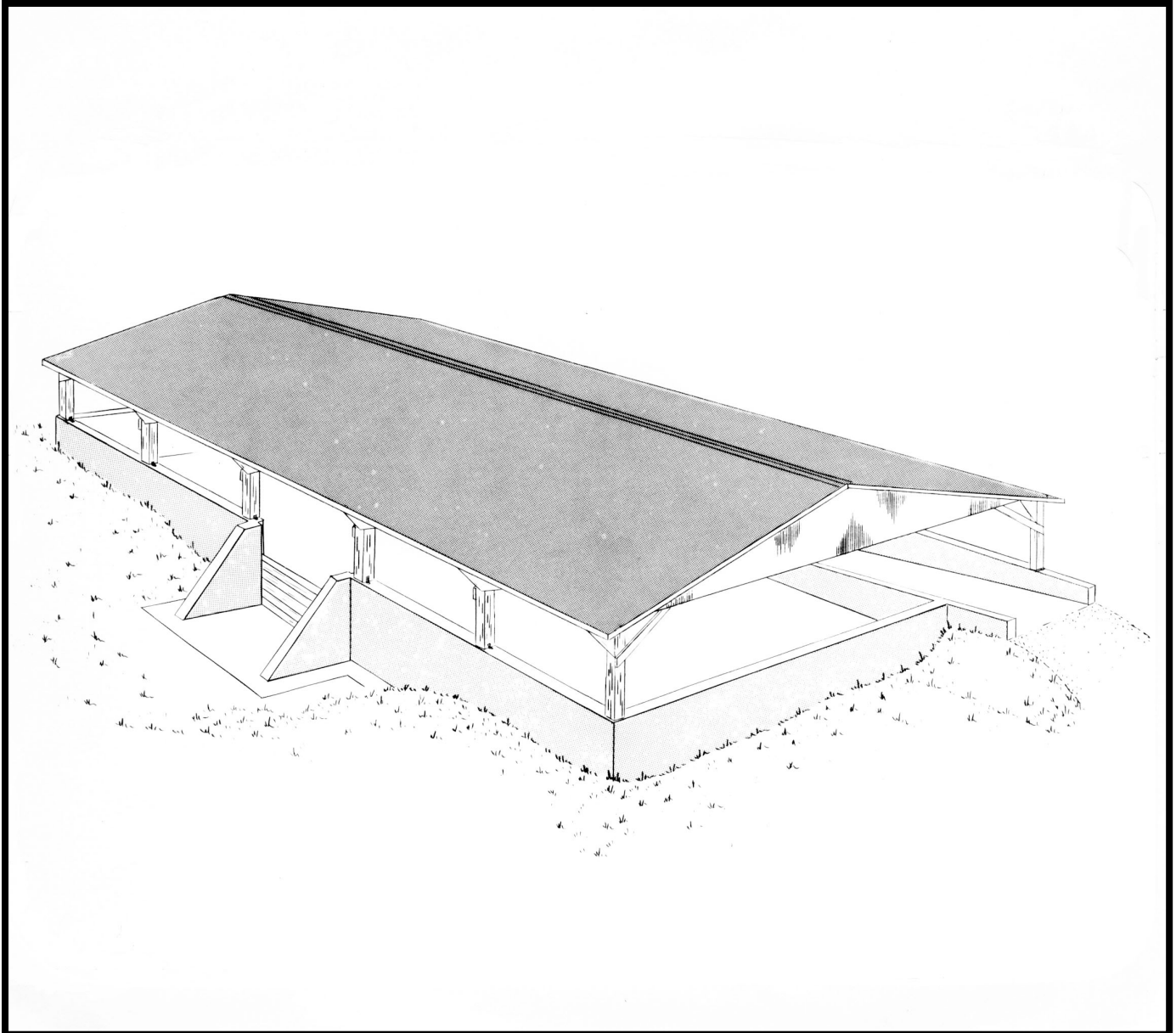




# CONCRETE MANURE TANK – 8 FT. DEEP



## 383-10

### CONCRETE MANURE TANK 8 FEET DEEP

This plan gives details for a rectangular concrete tank which can be constructed up to a maximum of 8 feet deep. It can be as long and as wide as is necessary.

If you plan to roof the storage, do not build the tank wider than about 60 feet or the maximum span for conventional roof trusses. For roof structure details, see Plan No. 383-11.

A buttressed bulkhead can be constructed as an exit/entrance for tractor clean-out.

Emptying can also be achieved by the use of an unloading ramp. Note that a sump should be built in the floor to facilitate pump-out.

Filling can be done by a barn cleaner (at low slope), plunger manure pump and underground pipe, a tractor and front-end loader, or by gravity flow.

This plan also shows details on how a circulatory agitation system can be constructed in a rectangular storage.

This tank can be buried up to 8 feet deep in the ground. Note the position of the reinforcing bars in the side walls for the various depths. Note that the floor of the tank should not be located more than 24" below the highest expected ground watertable.

Open manure storage can be the source of bad odours which can make life unpleasant around the farm, especially when the manure is disturbed for loading and spreading. Locate the manure storage as far away as possible and downwind from the farm residence and neighbours.

For the safety of children, farm workers, and cattle, a fence should be installed around the manure tank. This fence should be galvanized wire mesh 4 feet high minimum, or equivalent. The fence should be fastened to the roof support posts, or to steel posts cast into the concrete tank wall at 12 foot intervals.

Advice can be obtained from the BC Ministry of Agriculture, Fisheries and Food when planning any improvement to manure systems and livestock housing.