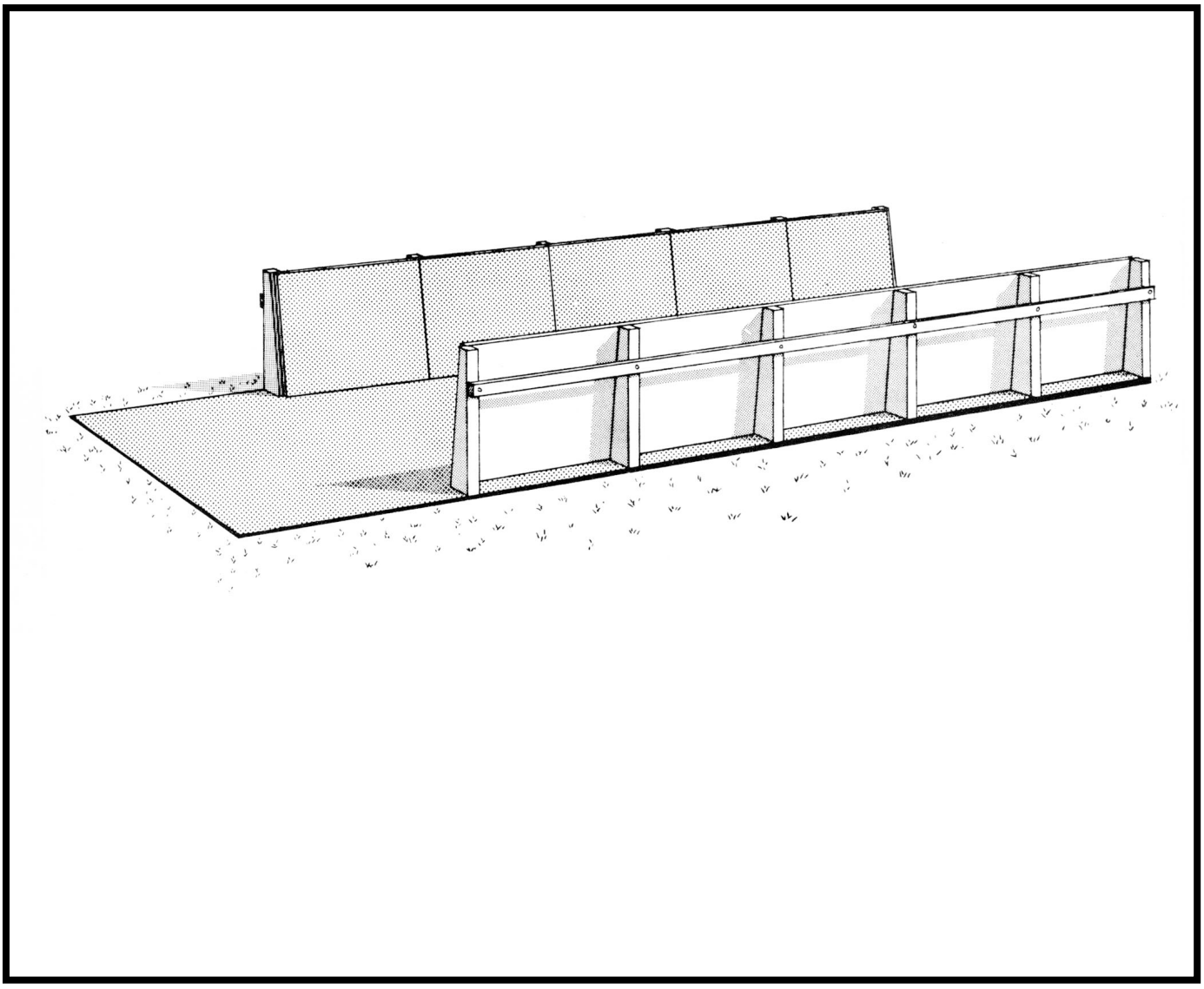
OPEN TOP CONCRETE WALL BUNKER SILO 6, 8 OR 10 FT WALL (TILTUP)



DEVELOPED CANADA PLAN SERVICE

372-38

HORIZONTAL SILO (TILT-UP CONCRETE TYPE)

CPS
PLAN 2648

This is a detailed plan set for a tilt-up concrete horizontal silo with 4-inch precast concrete wall panels 6, 8, or 10 ft. high. The walls are sloped outward at the top to facilitate packing. Two methods are shown for supporting the tilt-up wall panels. For silo walls below ground concrete ties set to thrust against a row of concrete 'dead men' provide the support. For silo walls mostly above ground, two types of cast-in-place concrete buttments are shown, spaced at 8-foot centers. The concrete floors are crowned for drainage at the middle and sloped to the unloading end.

A table indicates the capacity per foot of length of silos of different width and wall height.

For winter feeding, the open feeding face of a horizontal silo should face south for maximum exposure to the sun.

This silo can be filled several ways. Some farmers dump the silage from trucks or self-unloading wagons onto the silo floor, then pile and pack with a small bulldozer or a tractor with front-end loader. Others blow silage with a forage blower and pack with a tractor. Thorough packing squeezes air out to help reduce spoilage and to increase storage capacity.

Always cover the packed silage with a sealing membrane such as 6-mil black polyethylene plastic. This film can be bought up to 40 feet wide. Tie the plastic down securely with rope netting, a layer of old tires or baled straw to prevent billowing and tearing by wind. The baled straw also adds insulation to reduce freezing.

These silos can be unloaded with a tractor front-end loader or a commercial horizontal silo unloader. These special unloaders chew the silage down, leaving the feeding face smooth and even for minimum drying and spoilage. The unloader also mixes the silage and fills a self-unloading truck or forage wagon for delivery to the feeding area.