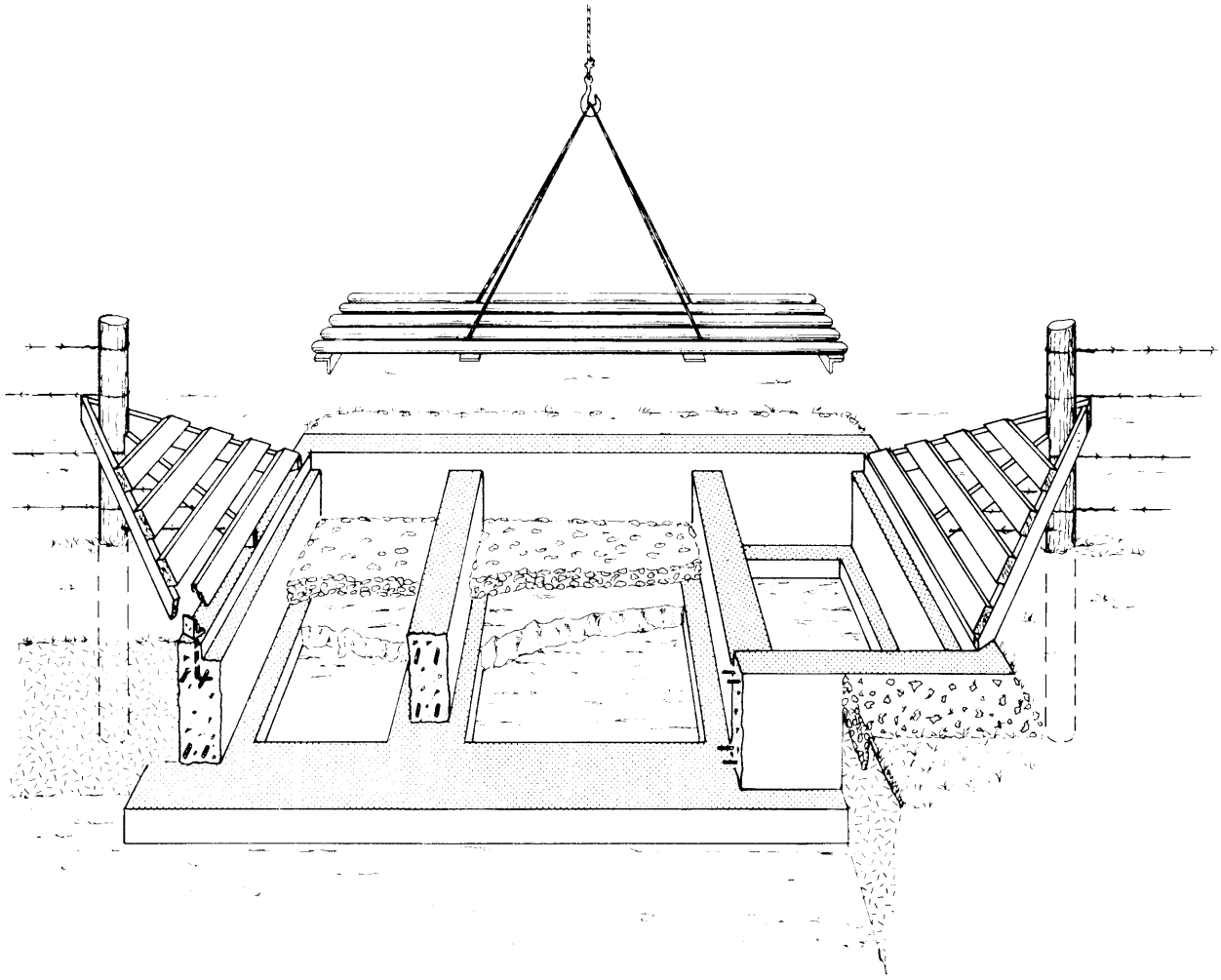
PLAN
8362

TEXAS GATE (VEHICLE PASS)

COMPLETE INSTRUCTIONS



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.

TEXAS GATE (VEHICLE PASS)

PLAN 8362 NEW 85:03

The Texas Gate, also called a Vehicle Pass, is a very convenient way to confine livestock but allow tractors, trucks and cars to pass through a feedlot or field fence. Rubber-tired wheels roll easy across the grid, spaced steel pipes, but cattle, sheep and horses will shun the round smooth piping over a pit. For cattle control at field openings, this vehicle pass is adequate as shown. However, if used at the entrance to a feedlot, add a swing gate at the feedlot side of the pipe grid to prevent animals from being accidentally crowded onto the pipes.

The pipe grids are shown 12 ft wide, with outward sloped triangular fence barriers at each side of the grids that allow passage of farm machines with transport width slightly over 12 ft. The sloped barriers also help discourage livestock from stepping across where the grid meets the fence. The width of the vehicle pass can be increased or decreased to suit the roadway, provided the supporting walls are re-spaced to provide equivalent support for the heaviest wheel traffic expected.

The supporting walls for the pit and pipe grid are 8 in. thick reinforced concrete. These walls should bear on firm undisturbed soil, and backfill around the outside should be thoroughly compacted to minimize settlement which causes bumping when traffic passes over.

1 16" x 8" footing
2 8" thick perimeter and support walls, 2-No.3 rebars at top and 2-No.3 rebars at bottom, 11/2 min. concrete cover
3 4" x 3" recess for 6
4 typical removable pipe grating unit, 3 required
5 3" extra strong pipe 11' – 11' long, 5 per unit, welded to 6 and 7 @ 6" oc
6 3" x 3" x 1/4" steel angle 2' - 6" long, locate to fit on end recessed wall, weld to 5
7 1/4" x 3" flat steel bar locate to fit on support wall and weld to 5
8 5/16" x 12" anchor bolts, with 3" x 3" x 1/4" steel angle, 6 required
9 6" dia x 8' - 0" pressure treated fence post, 3' - 0" into ground
10 2" x 6" slats, 2" x 4" braces, anchored to wall with 8 and nailed to post 9, underside closed with barbed wire
11 6" gravel bed