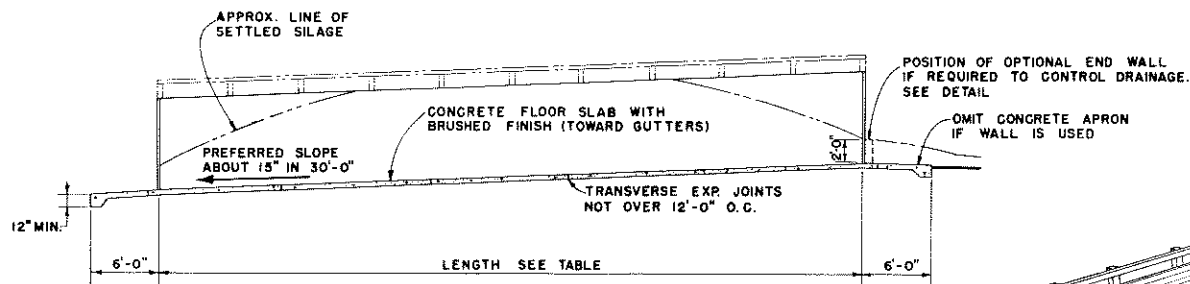
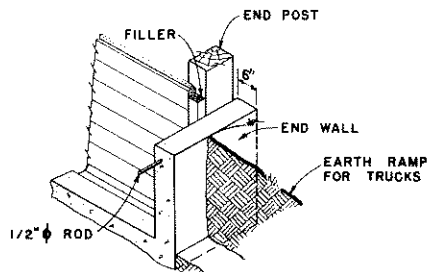


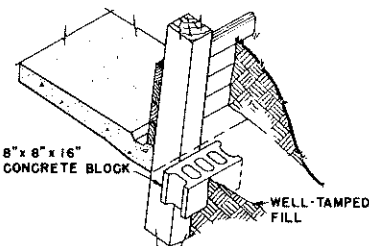
TYPICAL CROSS SECTION
SCALE: 1/2" = 1'-0"



TYPICAL LONGITUDINAL SECTION
SCALE: 1/8" = 1'-0"

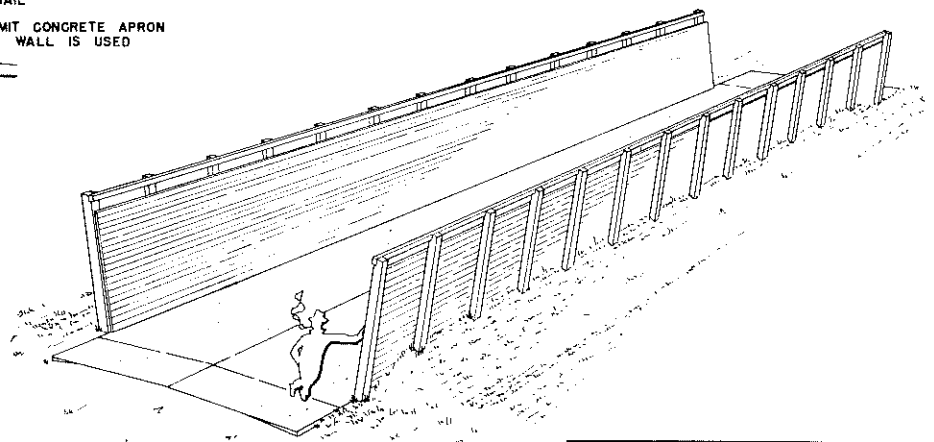


DETAIL OF OPTIONAL END WALL



POST DETAIL

SCALE: 1/2" = 1'-0"



PERSPECTIVE OF COMPLETED SILO
READY TO BE FILLED

| APPROXIMATE CAPACITIES | | | | | |
|------------------------|---------------|------------------|----------|----------|-----------------------------------|
| HERD SIZE | WIDTH OF SILO | FEEDING PERIOD → | | | CAPACITY FOR EACH 6 FT. OF LENGTH |
| | | 120 DAYS | 175 DAYS | 210 DAYS | |
| 30 HEAD | 16 FT. | 114 TONS | 163 TONS | 196 TONS | 16 TONS |
| 37 " | 20 " | 141 " | 202 " | 242 " | 20 " |
| 44 " | 24 " | 168 " | 240 " | 288 " | 24 " |
| 52 " | 28 " | 195 " | 278 " | 334 " | 28 " |
| 59 " | 32 " | 222 " | 317 " | 380 " | 32 " |

CAPACITY IS BASED ON SILAGE WEIGHT OF 40 LBS. PER CUBIC FOOT AND SETTLED DEPTH OF 8 FEET, EXCEPT AT ENDS.

WIDTH OF SILO IS BASED ON HERD SIZE AND ON AN AVERAGE CONSUMPTION OF 60 LBS. OF SILAGE PER ANIMAL PER DAY.

LENGTH OF SILO IS BASED ON 4" DAILY RATE OF USE FOR WARM WEATHER CONDITIONS. LENGTH MAY BE VARIED IN UNITS OF 6 FEET.

FOR SELF-FEEDING, WITH FREE ACCESS, A SILO WIDTH OF 3" TO 6" PER HEAD IS REQUIRED.

DETAILS OF MOVABLE FENCES FOR SELF-FEEDING ARE SHOWN ON PLAN NO. 5801

THIS SILO MAY BE BUILT IN TWO STAGES.
1. SLAB ALONE FOR USE AS SELF-FEEDING STACK SILO WITH WALLS ADDED LATER FOR INCREASED CAPACITY AND REDUCED SPOILAGE.
2. WALLS ALONE FOR MAXIMUM CAPACITY UNTIL WEATHER OR INTENTION TO USE AS SELF-FEEDER NECESSITATE FLOOR.

ALL CONCRETE TO BE 1: 2 1/2 : 3 1/2 MIX, WITH NOT MORE THAN 8 GALLONS OF WATER PER BAG OF CEMENT.

ALL WOOD SHOULD BE PRESSURE-TREATED WITH PRESERVATIVE (AFTER CUTTING) TO 8 LBS. PER CUBIC FOOT RETENTION.

STAGGER END JOINTS OF PLANKS IN EACH ROW SO JOINTS FALL ON ALTERNATE POSTS.

COOPERATIVE EXTENSION WORK IN
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STATE OF NORTH DAKOTA
NORTH DAKOTA STATE UNIVERSITY
OF AGRICULTURE AND APPLIED SCIENCE
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

BUNKER SILO
TYPE C

USDA '57 EX. 5843 SHEET 1 OF 1