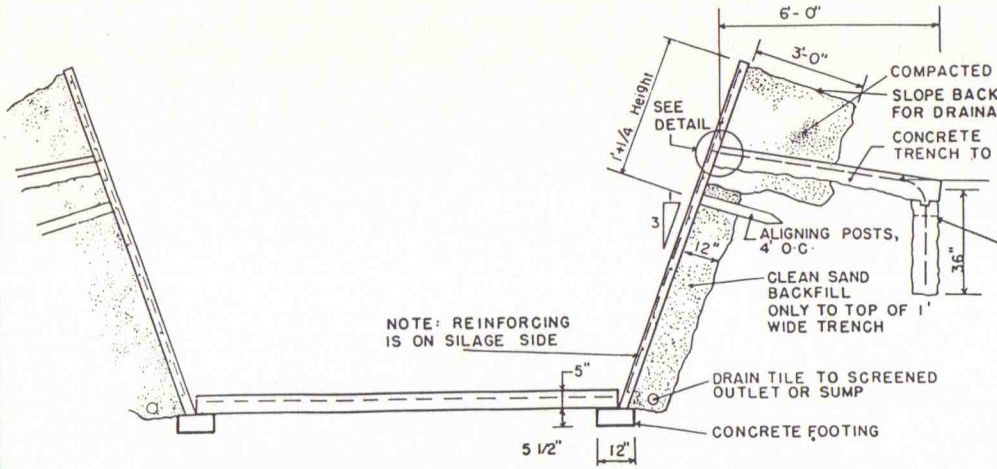
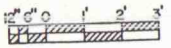
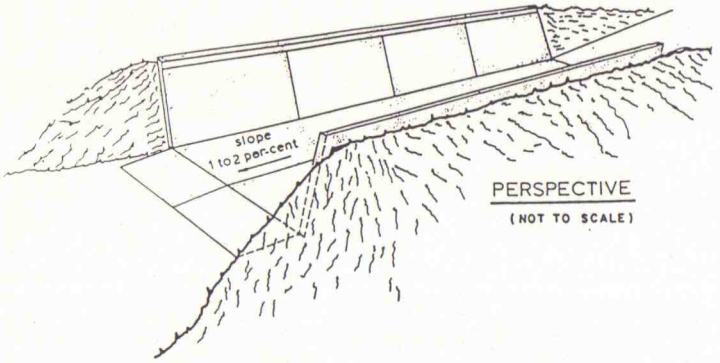


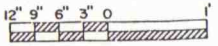
CROSS SECTION

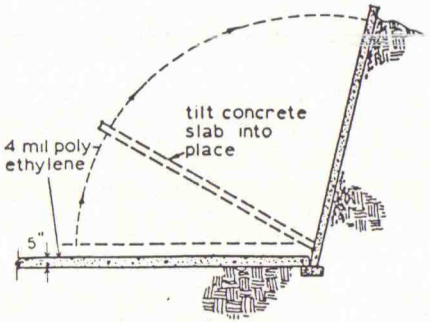




PERSPECTIVE

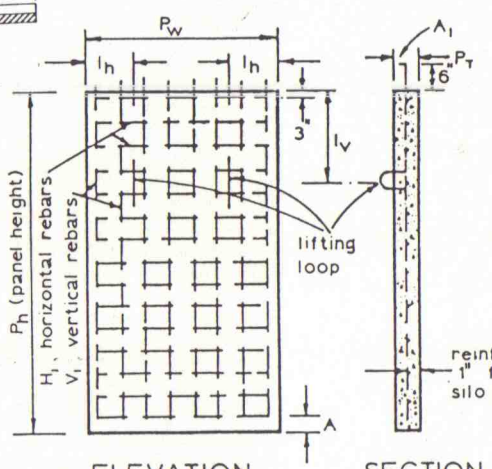
(NOT TO SCALE)





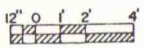
HALF SECTION DETAIL

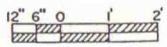
SCALE 1/4" = 1'-0"



ELEVATION

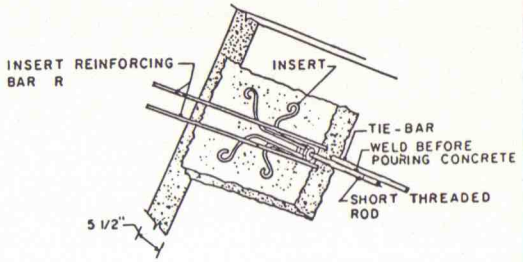
SECTION





LOOP FOR LIFTING

THE LIFTING LOOP IS FORMED FROM 3/4" DIAMETER X 3' LONG STEEL BARS.



TIE BAR INSERT DETAIL

(NOT TO SCALE)

BUNKER SILO CAPACITIES IN TONS/FOOT OF LENGTH

depth	width						
	20'	30'	40'	50'	60'	70'	80'
8'	3.5	5	6.5	8.1	10.0	11.3	13.0
10'	4.5	6.2	8.4	10.2	12.2	14.2	16.2
12'	5.5	7.5	10.0	12.3	14.6	17.0	20.0
14'	6.6	8.7	11.5	14.3	17.0	20.0	22.7
16'	7.5	10.0	13.1	16.3	20.0	22.7	26.0
18'	8.8	11.1	14.7	18.3	22.0	27.6	29.1

NOTES

1. Capacity is based on 40 pounds per cubic foot.
2. A daily use rate of 4" of silage is recommended in warm weather to keep silage fresh.
3. The aggregate should contain 40% sand, 60% gravel; and not more than 6 gallons of water per sack of cement.
4. Set grade so water will drain away from silo.

PANEL DIMENSION SCHEDULE

PANEL HT	P_W	P_T	A	l_h	l_V	WT
8'-0"	7'-11"	3 1/2"	3"	1'-6"	2'-6"	2600
10'-0"	7'-11"	3 1/2"	3"	1'-6"	3'-0"	3200
12'-0"	7'-11"	5 1/2"	3"	1'-6"	3'-6"	6100
14'-0"	7'-11"	5 1/2"	3"	1'-6"	4'-0"	7200

PANEL REINFORCEMENT SCHEDULE

	8 FOOT				10 FOOT				12 FOOT				14 FOOT			
	shape	no.	size	lgth	shape	no.	size	lgth	shape	no.	size	lgth	shape	no.	size	lgth
H_1	——	9	1/2"	7'6"	——	11	1/2"	7'6"	——	13	1/2"	7'6"	——	15	1/2"	7'6"
V_1	——	8	1/2"	7'6"	——	8	1/2"	9'6"	——	8	1/2"	11'6"	——	8	1/2"	13'6"
A_1	L	2	1/2"	2'6"	L	2	1/2"	2'6"	L	2	1/2"	2'6"	L	2	1/2"	2'6"

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS
STATE OF TENNESSEE
UNIVERSITY OF TENNESSEE
AGRICULTURAL ENGINEERING DEPARTMENT
AND
UNITED STATES DEPARTMENT OF AGRICULTURE COOPERATING

CONCRETE TRENCH SILO

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