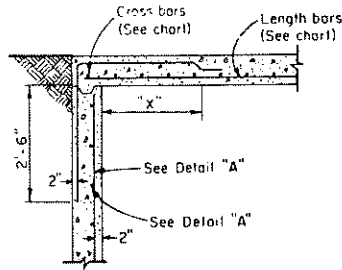
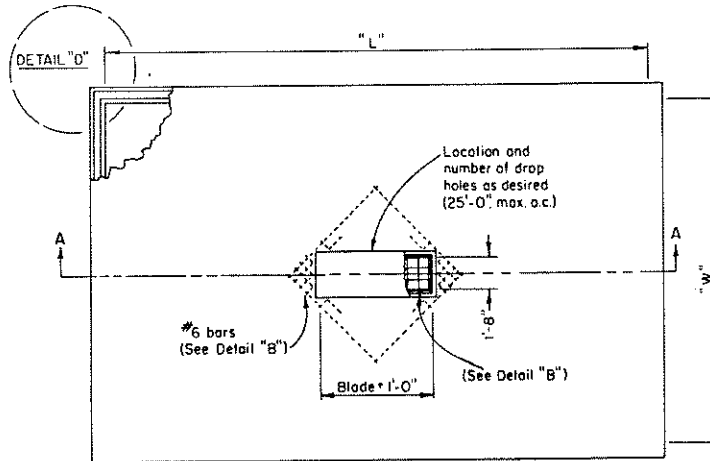


Tank Size				Length "L"	Dimensions				Tank Top Reinforcement				Cubic Yards (Volume of Concrete)		
Width "W"	Length "L"	Depth "D"	Gallon Capacity		Lengthways			Crossways		Base Slab	Walls	Tank Top	Total		
					"T"	"X"	"M"	Bar Size	Spacing					Bar Size	Spacing
12	As desired	10	900 x L	*Cow Days = 500	5 1/2"	1'-8"	1 1/2"	#4	8"	#6	7"	0.30 x L	0.5 x L	0.24 x L	1.04 x L
15	As desired	10	1125 x L	*Cow Days = 625	8"	2'-2"	1 1/2"	#4	6"	#6	6"	0.35 x L	0.5 x L	0.42 x L	1.27 x L
18	As desired	10	1350 x L	*Cow Days = 900	8"	2'-6"	1 1/2"	#4	6"	#7	6"	0.40 x L	0.5 x L	0.50 x L	1.40 x L
20	As desired	10	1500 x L	*Cow Days = 833	9"	2'-10"	1 1/2"	#4	6"	#7	5"	0.45 x L	0.5 x L	0.62 x L	1.57 x L
24	As desired	10	1800 x L	*Cow Days = 1000	11"	3'-5"	2"	#5	8"	#8	5 1/2"	0.52 x L	0.5 x L	0.90 x L	1.92 x L

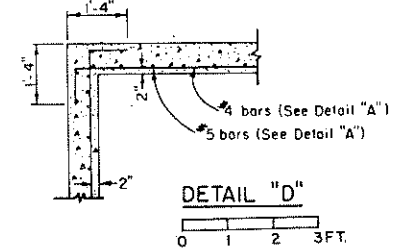
*Cow Days = Days Storage x Herd Size
(Based on: 18 gals./cow/day)



DETAIL "C"
1/2" x 1'-0"



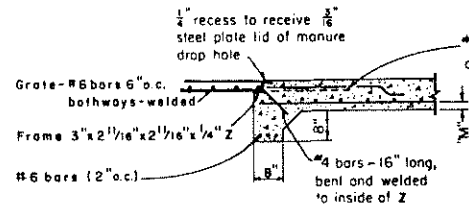
PLAN VIEW
0 2 4 6 FT.



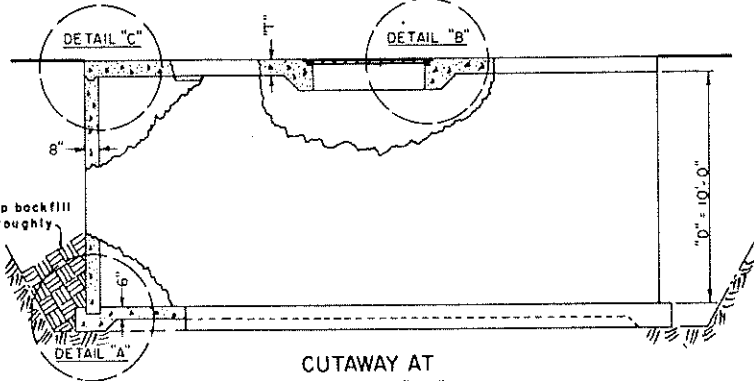
DETAIL "D"
0 1 2 3 FT.

NOTES:

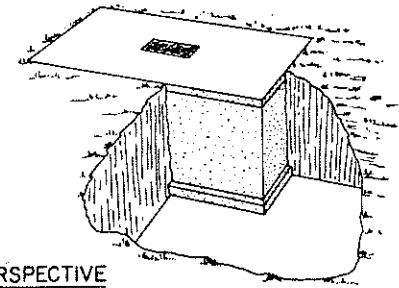
- 1) Design Live Load:
150 Lb./ft.², uniformly distributed
- 2) Concrete:
3,000 PSI at 28 days ($f_c = 1350$)
- 3) Steel:
 $f_s = 18,000$ PSI



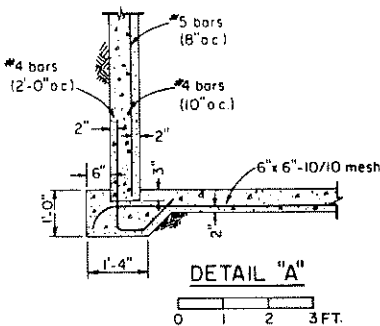
DETAIL "B"
0 1 2 3 FT.



CUTAWAY AT
SECTION "A-A"
0 2 4 6 FT.



PERSPECTIVE



DETAIL "A"
0 1 2 3 FT.

Adapted from:
Univ. of Mass.
Ag. Eng. Dept.
Plan No. MC-4619
Cornell Univ.
Plan No. 820

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

LIQUID MANURE TANK

MASS., N.Y. '65 EX. 5987 SHEET 1 OF 1