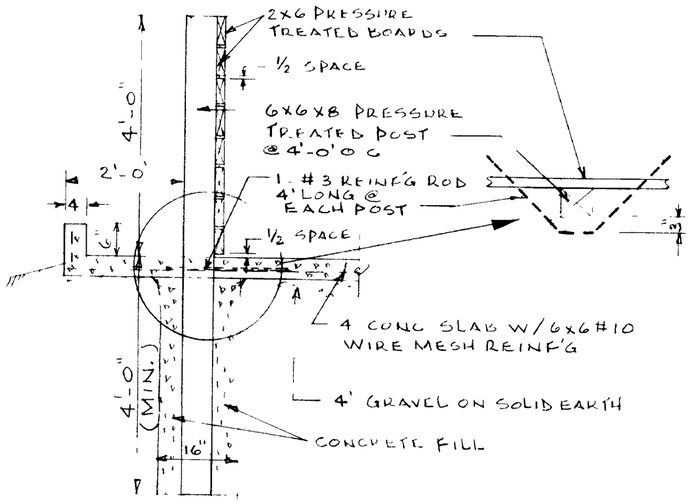
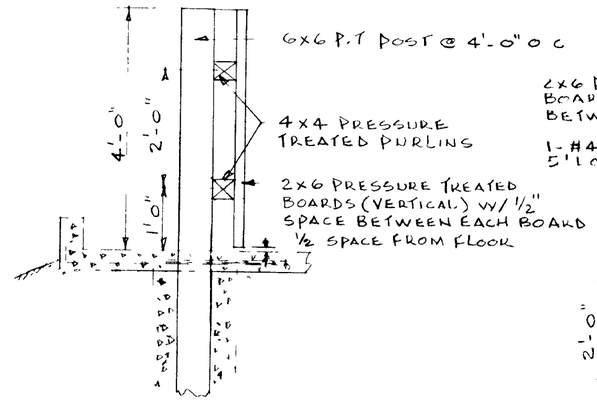


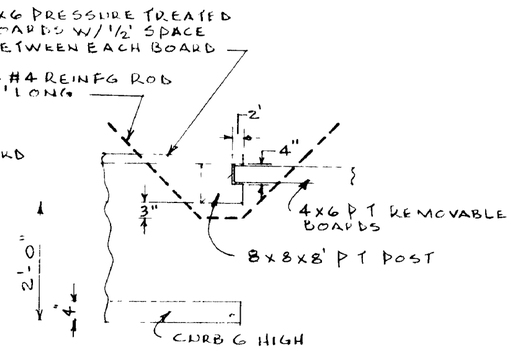
CROSS SECTION A-A

SCALE ½" = 1'-0"



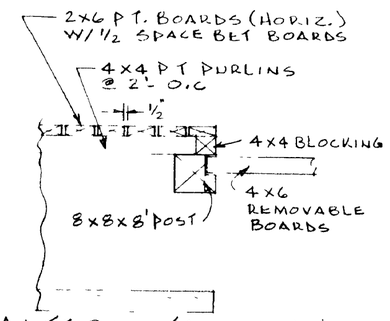
ALTERNATE WALL CONST'G

SCALE ½" = 1'-0"



PLAN VIEW B-B

SCALE ½" = 1'-0



ALTERNATE WALL CONSTRUCTION

SCALE ½" = 1'-0"

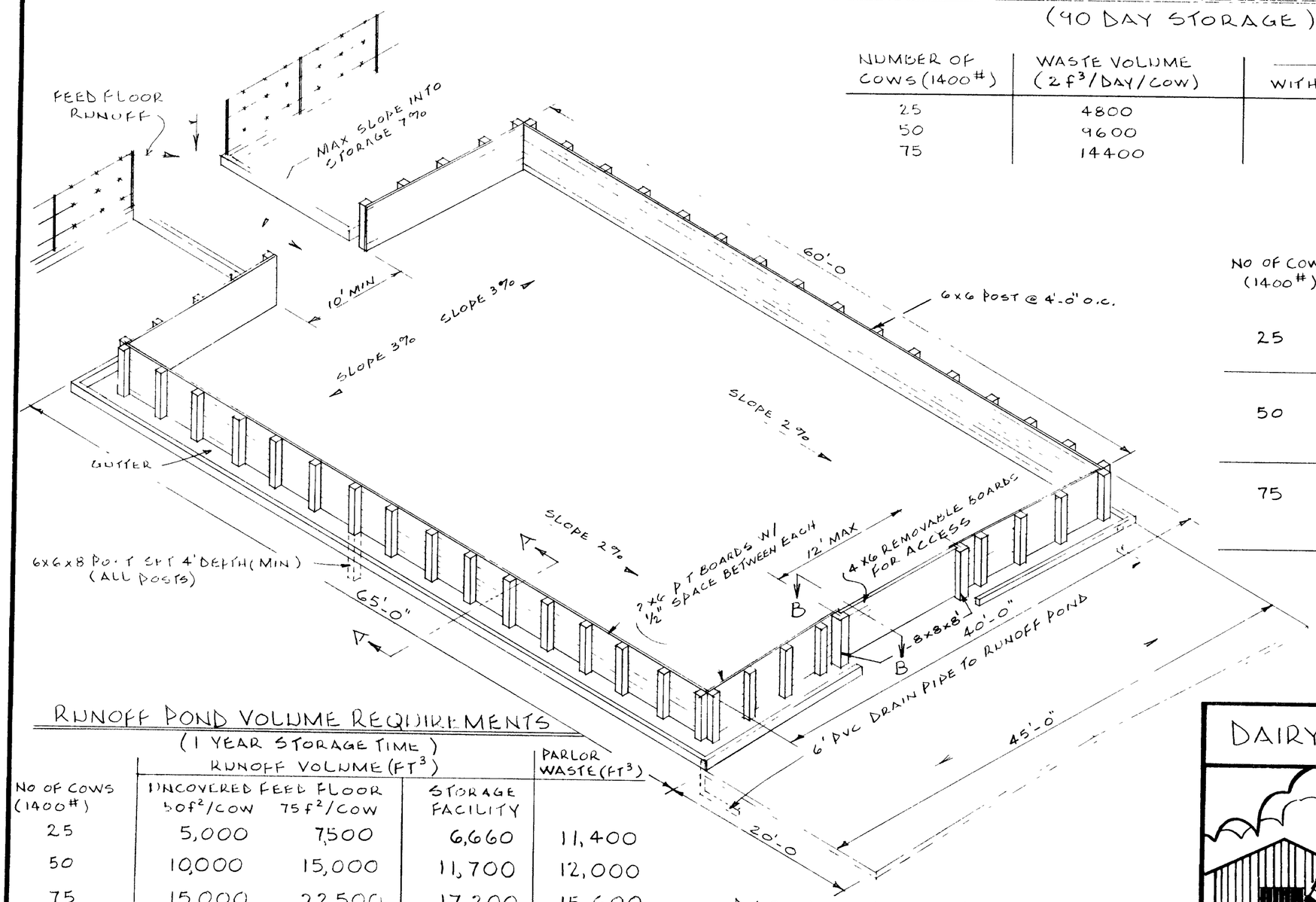
STORAGE FACILITY DIMENSION FOR DIFFERENT HERD SIZES

(90 DAY STORAGE)

NUMBER OF COWS (1400#)	WASTE VOLUME ($2f^3$/DAY/COW)	OVERALL DIMENSIONS WITH ACCESS & PAD	OVERALL DIMENSIONS WITHOUT ACCESS & PAD
25	4800	37'x65'	37'x45'
50	9600	45'x85'	45'x65'
75	14400	53'x101'	53'x81'

MATERIALS

NO OF COWS (1400#)	CONCRETE WITH ACCESS YD^3	CONCRETE WITHOUT ACCESS YD^3	TREATED LUMBER WITH ACCESS			TREATED LUMBER WITHOUT ACCESS	
				No	BF	No	BF
25	31	22	2x6		984		1080
			6x6x8'	36	868	40	964
			8x8x8'	2	44		
			4x6x12'	8	193		
			TOTAL – 2089			TOTAL	2044
50	48	38	2x6		1428		1524
			6x6x8'	50	1205	54	1301
			8x8x8	2	44		
			4x6x12'	8	193		
			TOTAL – 2870			TOTAL	2825
75	68	55	2x6		1812		1908
			6x6x8	62	1494	66	1590
			8x8x8'	2	44		
			4x6x12'	8	193		
			TOTAL – 3543			TOTAL – 3498	



PERSPECTIVE VIEW

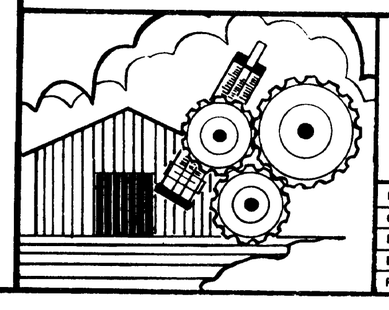
(50 COWS)

RUNOFF POND VOLUME REQUIREMENTS

(1 YEAR STORAGE TIME)

NO OF COWS (1400#)	RUNOFF VOLUME (FT^3) UNCOVERED FEED FLOOR $50f^2$/COW	UNCOVERED FEED FLOOR $75f^2$/COW	STORAGE FACILITY	PARLOR WASTE (FT^3)
25	5,000	7,500	6,660	11,400
50	10,000	15,000	11,700	12,000
75	15,000	22,500	17,200	15,600

DAIRY MANURE STORAGE FACILITY



COOPERATIVE EXTENSION SERVICE
AGRICULTURE AND HOME ECONOMICS
DEPARTMENT OF AGRICULTURAL ENGINEERING
COLLEGE OF AGRICULTURE
UNIVERSITY OF KENTUCKY
AND
U S DEPARTMENT OF AGRICULTURE COOPERATING

DESIGNED BY J. TARABA	SHEET 1 OF 1
CHECKED BY J T R E	PLAN NUMBER
DRAWN BY B E P.	KY. II. 723-34
DATE 6-82	
REVISIONS	