



ALTERNATE FOR RAMP USING PIPE DRAIN
SCALE: 1" = 5'-0"

LAGOON SIZES FOR 1 TO 1 SIDE SLOPES (DIMENSIONS TO NEAREST FOOT)											
NO. OF COWS	HOLDING PEN AND MILKING WASTES					NO. OF COWS	CONTINUOUS CONFINEMENT				
	(ANAEROBIC) 8' MIN. DEPTH		(AEROBIC) 5' DEPTH				(ANAEROBIC) 8' MIN. DEPTH		(AEROBIC) 5' DEPTH		
	MIN. VOL. CU. FT.	A	B	VOL. CU. FT.	C D		MIN. VOL. CU. FT.	A	B	VOL. CU. FT.	C D
25	4,500	40	25	2,500	40 19	25	9,000	50	35	5,000	50 27
50	9,000	50	35	5,000	50 27	50	18,000	75	42	10,000	75 34
75	13,500	60	41	7,500	60 32	75	27,000	100	45	15,000	100 36
100	18,000	75	42	10,000	75 34	100	36,000	100	57	20,000	100 47
150	27,000	100	45	15,000	100 36	150	54,000	150	56	30,000	150 46
200	36,000	100	57	20,000	100 47	200	72,000	200	55	40,000	200 46

LAGOON SIZES FOR 3 TO 1 SIDE SLOPES (DIMENSIONS TO NEAREST FOOT)											
NO. OF COWS	HOLDING PEN AND MILKING WASTES					NO. OF COWS	CONTINUOUS CONFINEMENT				
	(ANAEROBIC) 8' MIN. DEPTH		(AEROBIC) 5' DEPTH				(ANAEROBIC) 8' MIN. DEPTH		(AEROBIC) 5' DEPTH		
	MIN. VOL. CU. FT.	A	B	VOL. CU. FT.	C D		MIN. VOL. CU. FT.	A	B	VOL. CU. FT.	C D
25	4,500	60	40	2,500	60 20	25	9,000	70	48	5,000	70 33
50	9,000	70	48	5,000	70 33	50	18,000	95	56	10,000	95 40
75	13,500	80	54	7,500	80 38	75	27,000	120	69	15,000	120 44
100	18,000	95	56	10,000	95 40	100	36,000	120	71	20,000	120 53
150	27,000	120	69	15,000	120 44	150	54,000	170	70	30,000	170 54
200	36,000	120	71	20,000	120 53	200	72,000	220	70	40,000	220 55

RAMP ON PILINGS
SCALE: 1" = 5'-0"

LSU AgCenter
Louisiana State University

LAGOON SYSTEM FOR DAIRY WASTE DISPOSAL

ENGINEER	CES	SCALE	AS SHOWN
DRAWN BY	BAL	SHEET	1 OF 1
TRACED BY	BAL	DATE	REV 8-12-70 NO. 34-3

Disclaimer

This site makes available conceptual plans that can be helpful in developing building layouts and selecting equipment for various agricultural applications. These plans do not necessarily represent the most current technology or construction codes. They are not construction plans and do not replace the need for competent design assistance in developing safe, legal and well-functioning agricultural building system. The LSU Agriculture Center, the Mid-West Plan Service, the United States Department of Agriculture and none of the cooperating land-grant universities warranty these plans.