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Appendix A
WISCONSIN DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION
AGRICULTURAL ENGINEERING PRACTITIONER; CERTIFICATION

PRACTITIONER _____ OFFICE _____ Original _____ Revised _____

(SIGNATURE) _____ TITLE _____ DATE _____

CONCURRED BY _____ TITLE Supervisor _____ DATE _____

CERTIFIED BY _____ TITLE DATCP Agricultural Engineer _____ DATE _____

CONCURRED BY _____ TITLE _____ DATE _____

STD. CODE	PRACTICE	SUB-PRACTICE	CONTROLLING FACTORS	UNITS	JOB CLASS					CERTIFICATION RATING		
					I	II	III	IV	V	DESIGN	CONST	
560	ACCESS ROAD		GRADE	%	10	ALL						
			DRAINAGE AREA	ACRES	10	20	40	160	ALL			
			VELOCITY	F.P.S.	4	6	8	10	ALL			
575	ANIMAL TRAILS AND WALKWAYS		GRADE	%	ALL							
410	GRADE STABILIZATION STRUCTURE	EARTHEN EMBANKMENTS	HAZARD	CLASS	a	a	a	a	a			
			DRAINAGE AREA	ACRES	20	40	160	320	640			
			EFFECTIVE HEIGHT (a)	FEET	10	15	20	25	35			
			STORAGE (b)	AC.FT.	5	15	30	50	85			
378	POND (EMBANKMENT) STRUCTURE FOR WATER CONTROL		CONDUIT (SINGLE)	INCH	12	18	24	36	48			
			NET DROP	FEET	2*	3*	4*	4	6			
402	DAM, FLOODWATER RETARDING	BOX DROP TO CULVERT	WEIR CAPACITY	C.F.S.	100*	200*	300*	400	500			
			NET DROP	FEET	2*	3*	4*	3	4			
			WEIR CAPACITY	C.F.S.	100*	200*	300*	300	300			
362	DIVERSION		NET DROP	FEET	4	6	8	10	12			
			CAPACITY	C.F.S.	50	100	200	250	300			
			DRAINAGE AREA	ACRES	10	20	40	160	ALL			

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STD. CODE	PRACTICE	SUB-PRACTICE	CONTROLLING FACTORS	UNITS	JOB CLASS					CERTIFICATION RATING		
					I	II	III	IV	V	DESIGN	CONST	
393	FILTER STRIP	SEDIMENT RELATED	WIDTH	FEET	ALL							
		BARNYARD	CONTRIBUTING AREA	SQ. FT.	15000	40000	ALL					
		MILKING CENTER	VOLUME	G.P.D.	300	600	ALL					
		OTHER WASTES	FILTER AREA	SQ. FT.	1000	2500	5000	10000	ALL			
412	GRASSED WATERWAY		DRAINAGE AREA	ACRES	50	200	600	1300	ALL			
561	HEAVY USE AREA PROTECTION		AREA	SQ. FT.	15000	40000	ALL					
468	LINED WATERWAY OR OUTLET		DESIGN CAPACITY (c)	C.F.S.	10	30	100	150	ALL			
582	OPEN CHANNEL		DESIGN VELOCITY	F.P.S.	2	4	6	8	10			
584	STREAM CHANNEL STABILIZATION		DESIGN CAPACITY	C.F.S.	100	200	300	400	500			
516	PIPELINE, LIVESTOCK WATER		LENGTH	MILES	1/4	1	3	30	ALL			
378	POND (EXCAVATED)		VOLUME OF EXCAVATION	CU. YD.	20000	ALL						
521	POND SEALING OR LINING, WATER PONDS		AREA TREATED	ACRES	1/4	1/2	1	2	ALL			
558	ROOF RUNOFF MANAGEMENT		ROOF SIZE	SQ. FT.	1500	3000	4500	7000	ALL			
350	SEDIMENT BASIN, LIVESTOCK		WALL HEIGHT	FEET	2*	4*	5*	6*	8*			
			CONTRIBUTING AREA	SQ. FT.	15000	40000	ALL					
574	SPRING DEVELOPMENT		ESTIMATED FLOW	G.P.M.	ALL							
580	STREAMBANK AND SHORELINE PROTECTION	LAKESHORES STREAMBANKS	WAVE HEIGHT	FEET	-	3	ALL					
			CAPACITY	C.F.S.	100	300	1000	2000	4000			
			VELOCITY (d)	F.P.S.	2	4	6	8	10			
606	SUBSURFACE DRAIN		PIPE SIZE	INCH	4	6	8	12	ALL			
607	SURFACE DRAIN FIELD DITCH		DRAINAGE AREA	ACRES	10	20	50	100	ALL			
608	SURFACE DRAINAGE, MAIN OR LATERAL		DRAINAGE AREA	ACRES	100	320	640	2000	ALL			
600	TERRACE	GRADIENT	EMBANKMENT HEIGHT	FEET	2	3	ALL					
		UNDERGROUND OUTLET	EMBANKMENT HEIGHT	FEET	3	4	6	8	ALL			
614	TROUGH OR TANK		NUMBER	EACH	ALL							
620	UNDERGROUND OUTLET		PIPE SIZE	INCH	4	6	8	12	ALL			
638	WATER AND SEDIMENT CONTROL BASIN		EMBANKMENT HEIGHT	FEET	5	10	15					
725	CREVICE AND SINKHOLE TREATMENT		NUMBER	EACH	ALL							

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STD. CODE	PRACTICE	SUB-PRACTICE	CONTROLLING FACTORS	UNITS	JOB CLASS					CERTIFICATION RATING	
					I	II	III	IV	V	DESIGN	CONST
312	WASTE MANAGEMENT SYSTEM		ANIMAL UNITS	EACH	75	150	300	600	1000		
313	WASTE STORAGE FACILITY (INCLUDES CLOSURE)	STRUCTURAL FACILITIES	DESIGN CAPACITY PREQUALIFIED (e) WALL HT.(STANDARD) WALL HT. (f) (NON-STANDARD)	CU. FT. EACH FEET FEET	5000 ALL., subject to design capacity	25000 75000	150000 150000	300000 300000	4* 6* 8*	4 6 8	
632		EARTHEN FACILITIES	EFFECTIVE HEIGHT (a)	FEET	10	15	20	25	ALL		
		UNLINED POND	DESIGN CAPACITY	CU.FT.		100000	500000	1.5M			
		CONCRETE LINER	DESIGN CAPACITY	CU.FT.		100000	500000	1.5M			
		CLAY LINER	DESIGN CAPACITY	CU.FT.		100000	500000	1.5M			
		MEMBRANE AND GEO-SYNTHETIC CLAY LINER	DESIGN CAPACITY	CU.FT.		100000	500000	1.5M			
634	MANURE TRANSFER		TYPE	EACH	PUMP	GRAVITY	ALL				
			RECEPTION TANK (g) (subject to wall height class under 313)	EACH	STAND.	NON-	ALL				
351	WELL DECOMMISSIONING		ESTIMATED DEPTH	FEET	100	200	300	500	ALL		
657	WETLAND RESTORATION	SCRAPE	SURFACE AREA	ACRE	1/2	1	ALL				
		TILE BREAK	DRAIN DIAMETER	INCH	6	8	12	ALL			
		DITCH PLUG	DEPTH	FEET	4	6	8	ALL			
		EMBANKMENT	DRAINAGE AREA	ACRES	80	160	320	640	ALL		
			EFFECTIVE HEIGHT	FEET	4	6	8	10	ALL		
			DRAINAGE AREA	ACRES	20	40	80	120	160		
			STORAGE (b)	AC.FT.	5	15	30	50	50		

* STANDARD DETAIL DRAWINGS

NOTES:

1. CERTIFICATION IS NOT GRANTED FOR PRACTICES NOT SHOWN.
2. OTHER RESTRICTIONS MAY APPLY AS NOTED.

FOOTNOTES:

- a. DIFFERENCE IN ELEVATION IN FEET BETWEEN THE EMERGENCY SPILLWAY CREST (TOP OF EMBANKMENT IF NO EMERGENCY SPILLWAY) AND THE LOWEST POINT IN THE CROSS SECTION TAKEN ALONG THE CENTERLINE OF THE EMBANKMENT.
- b. STORAGE - TOTAL STORAGE CAPACITY AT THE TOP OF THE DAM IN ACRE-FEET.
- c. LINED WATERWAY OR OUTLET (468) - THE JOB CLASS WILL BE BASED ON THE 10 YEAR 24 HOUR DURATION PEAK DISCHARGE.
- d. MAXIMUM DESIGN VELOCITY.
- e. PREQUALIFIED STRUCTURES CAN BE FOUND IN CHAPTER 17 OF THE ENGINEERING FIELD HANDBOOK.
- f. THE MNTC DRAWING Nos. 5.E-33-001 AND 5.E-33-002 ARE CLASSIFIED UNDER WALL HEIGHT (NON-STANDARD).
- g. THE MNTC DRAWING Nos. 5.E-33-001 AND 5.E-33-002 ARE CLASSIFIED AS NON-STANDARD DRAWINGS.