

DRAINAGE STRUCTURE DESIGN RECORD																																			
STR. NO.	DRAINAGE AREA	STATION	AREA (ac)	ANTICIPATED LAND USE	WEIGHTED RUNOFF		LENGTH OF OVERLAND FLOW	SLOPE OF OVERLAND FLOW	LENGTH OF CHANNEL FLOW	SLOPE OF CHANNEL FLOW	TIME OF CONCENTRATION	DESIGN YEAR	INTENSITY OF DESIGN YEAR RAINFALL					DISCHARGE OF DESIGN YEAR RAINFALL					OVERTOPPING CAPACITY	ALLOWABLE HEADWATER	DESIGN YEAR HEADWATER	SLOPE	FLOWLINE INLET ELEVATION	FLOWLINE OUTLET ELEVATION	OUTLET VELOCITY	STRUCTURE DESCRIPTION					
					C	%							INCHES PER HOUR					CUBIC FEET PER SECOND													CFS	ELEV.	ELEV.	FT./FT.	FT/S
					FT.	%							I(5)	I(10)	I(25)	I(50)	I(100)	Q(5)	Q(10)	Q(25)	Q(50)	Q(100)													
1	DA-1	106+41.81	324.46	WOODLAND/GRASSED	0.23	1.63	1986.55	2.27	5688.61	1.41	74.38	5	1.98	2.25	2.61	2.97	3.30	144.44	164.50	209.63	259.98	300.91	1224.85	842.37	839.39	0.0071	836.37	835.60	5.38	EXTEND 10' X 6' RCB 33' LT. & 36' RT.					
2	DA-2	118+50.00	38.20	WOODLAND/GRASSED	0.23	4.26	1525.86	0.67	-	-	26.67	5	3.64	4.15	4.81	5.46	6.07	31.31	35.66	45.44	56.36	65.23	36.96	871.58	876.16	0.0403	870.08	867.50	14.56	CONST. 28" X 18" X 64' RCPA W/ PCES EACH END					
5	DA-3	140+00.00	19.80	WOODLAND/GRASSED	0.23	3.64	1236.27	3.64	-	-	25.46	5	3.73	4.25	4.92	5.59	6.22	16.62	18.92	24.12	29.91	34.62	61.49	868.80	868.35	0.0164	866.30	865.55	8.58	CONST. 30" X 58' RCP W/ PCES EACH END					
10	DA-4	158+09.90	40.87	PASTURE	0.30	4.18	801.99	4.36	991.69	4.03	30.22	5	3.41	3.89	4.50	5.12	5.69	41.84	47.65	60.73	75.31	87.17	43.29	826.27	829.24	0.0133	824.44	823.88	10.65	CONST. 36" X 22" X 42' RCPA W/ PCES EACH END					
18	DA-5	205+20.14	21.95	GRASSED	0.35	3.14	954.28	3.14	-	-	23.83	5	3.86	4.39	5.09	5.78	6.43	29.61	33.73	42.98	53.30	61.69	90.91	832.20	831.62	0.0209	829.20	828.07	10.56	CONST. 3' X 3' X 54' RCB					
20	DA-6	218+02.77	159.13	WOODLAND/PASTURE	0.25	1.86	857.99	1.40	3004.57	2.00	48.85	5	2.59	2.95	3.42	3.88	4.32	103.01	117.32	149.51	185.42	214.60	283.99	816.78	817.01	0.0228	812.78	810.96	14.48	EXTEND 4' X 4' RCB 21.5' LT. & 25.5' RT.					
23	DA-8	253+25.12	299.83	WOODLAND/PASTURE	0.23	1.92	7549.72	1.92	-	-	60.93	5	2.25	2.57	2.97	3.38	3.76	157.72	179.63	228.92	283.90	328.59	288.81	800.12	800.38	0.0052	796.12	795.79	9.50	CONST. 2-48" X 64' RCP W/ PCES EACH END					
27	DA-9	259+17.70	16.55	WOODLAND/PASTURE	0.25	5.01	1297.59	5.01	-	-	26.85	5	3.63	4.13	4.79	5.45	6.05	15.02	17.10	21.80	27.03	31.29	21.03	818.39	817.82	0.0127	815.89	815.23	8.26	CONST. SMD T2A					
29	DA-10	282+88.32	54.37	WOODLAND/PASTURE	0.25	4.46	630.71	5.55	1501.08	4.00	28.08	5	3.55	4.04	4.68	5.32	5.91	48.22	54.92	69.99	86.80	100.46	196.22	811.41	810.01	0.0144	807.41	806.71	10.15	EXTEND 4' X 4' RCB 6' LT. & 9.5' RT.					
33	DA-11	293+87.43	6.88	PASTURE	0.30	6.75	814.53	6.14	-	-	21.70	5	4.03	4.59	5.32	6.05	6.72	8.33	9.48	12.09	14.99	17.34	54.03	840.88	839.65	0.0071	838.71	838.44	5.36	CONST. 43" X 26" X 38' RCPA W/ PCES EACH END					
42	DA-14	338+69.97	1.66	WOODLAND/PASTURE	0.15	5.59	268.39	5.59	-	-	13.28	5	4.97	5.66	6.55	7.45	8.28	1.24	1.41	1.80	2.23	2.58	47.27	883.47	881.83	0.0381	881.47	879.49	5.21	EXTEND 2' X 2' RCB 10' LT. & 11' RT.					
45	DA-15	349+96.24	38.16	WOODLAND/PASTURE	0.20	4.17	627.10	5.58	1412.17	3.54	28.49	5	3.52	4.01	4.65	5.28	5.87	26.87	30.60	39.00	48.37	55.98	121.77	840.44	839.20	0.0247	837.44	835.96	10.42	EXTEND 4' X 3' RCB 8.5' LT. & 10' RT.					
46	DA-16	356+74.25	36.92	WOODLAND/PASTURE	0.23	1.97	1777.00	1.97	-	-	35.21	5	3.14	3.57	4.14	4.71	5.23	27.04	30.79	39.24	48.66	56.32	104.95	842.68	840.49	0.0145	838.68	838.04	8.72	EXTEND 4' X 4' RCB 10.5' LT. & 10.5' RT.					
53	DA-17	388+35.35	299.49	WOODLAND/PASTURE	0.23	1.52	505.11	4.95	7066.68	1.27	68.74	5	2.08	2.37	2.75	3.13	3.47	145.66	165.89	211.40	262.18	303.45	969.49	836.88	831.92	0.0578	828.88	825.93	16.20	EXTEND 10' X 8' RCB 15' LT. & 15' RT. W/ 3' DROP					
54	DA-18	389+08.87	299.59	WOODLAND/GRASSED	0.29	1.85	1488.01	3.02	4714.58	1.48	63.06	5	2.20	2.51	2.91	3.31	3.67	189.91	216.29	275.64	341.84	395.65	342.54	834.51	835.50	0.0786	829.51	824.95	21.22	EXTEND 5' X 5' RCB 9.5' LT. & 14' RT. W/ 2' DROP					
55	DA-19	396+23.61	10.34	PASTURE	0.30	3.81	432.10	3.47	616.91	4.05	24.17	5	3.83	4.36	5.05	5.74	6.38	11.87	13.52	17.24	21.37	24.74	88.37	857.67	855.94	0.0136	854.67	854.07	7.27	EXTEND 3' X 3' RCB 11.5' LT. & 11.5' RT.					
57	DA-20	403+78.19	9.04	GRASSED	0.35	2.72	920.20	2.72	-	-	24.20	5	3.83	4.36	5.05	5.74	6.38	12.10	13.78	17.57	21.79	25.22	113.17	873.00	872.04	0.0272	871.00	869.56	8.57	EXTEND 4' X 2' RCB 13.5' LT. & 14' RT.					
59	DA-21	414+65.00	83.86	WOODLAND/GRASSED	0.29	1.79	471.31	3.18	3712.59	1.62	46.30	5	2.68	3.05	3.53	4.01	4.46	64.50	73.46	93.62	116.11	134.38	244.72	860.84	860.25	0.0048	857.84	857.61	7.78	EXTEND 6' X 3' RCB 12.5' LT. & 14.5' RT.					

SUMMARY OF REMOVALS				
STATION	OFFSET	DESCRIPTION	REMOVAL OF HEADWALL (EA)	REMOVAL OF GUARDRAIL (LF)
106+41.81	X-ING	REMOVE HEADWALL LT & RT	2	
182+39.89	15.57 LT & RT	BEG. 115' GUARDRAIL LT & RT		230
184+80.32	12.98 LT & RT	BEG. 112' GUARDRAIL LT & RT		224
205+03.44	16.23 RT	BEG. 90' GUARDRAIL RT		90
218+02.79	X-ING	REMOVE HEADWALL LT & RT	2	
250+79.16	19.66 RT	BEG. 76 LF GUARDRAIL RT		76
282+88.30	X-ING	REMOVE HEADWALL LT & RT	2	
323+52.93	X-ING	REMOVE HEADWALL LT & RT	2	
338+70.06	X-ING	REMOVE HEADWALL LT & RT	2	
349+96.21	X-ING	REMOVE HEADWALL LT & RT	2	
356+74.25	X-ING	REMOVE HEADWALL LT & RT	2	
388+35.35	X-ING	REMOVE HEADWALL LT & RT	2	
389+08.85	X-ING	REMOVE HEADWALL LT & RT	2	
396+23.57	X-ING	REMOVE HEADWALL LT & RT	2	
403+78.33	X-ING	REMOVE HEADWALL LT & RT	2	
414+63.30	X-ING	REMOVE HEADWALL LT & RT	2	
TOTALS			24	620

STRIPING SUMMARY TABLE														
SOLID LINE LEFT			DASHED LINE LEFT			SINGLE DASHED CENTERLINE			DASHED LINE RIGHT			SOLID LINE RIGHT		
BEGIN	END	L.F.	BEGIN	END	L.F.	BEGIN	END	L.F.	BEGIN	END	L.F.	BEGIN	END	L.F.
100+15	107+00	685	108+00	114+00	172	107+00	108+00	39	100+15	107+00	195	108+00	114+00	600
115+00	122+00	700	122+00	129+00	199	114+00	115+00	39	115+00	121+00	172	121+00	130+00	900
129+00	138+00	900	139+00	145+00	172	138+00	139+00	39	130+00	138+00	225	139+00	147+00	800
145+00	155+00	1,000	160+00	166+00	172	155+00	160+00	145	147+00	155+00	225	160+00	166+00	600
167+00	174+00	700	186+00	192+00	172	166+00	167+00	39	167+00	174+00	199	186+00	197+00	1,100
192+00	219+00	2,700	220+00	227+00	199	174+00	186+00	332	197+00	204+00	199	204+00	212+00	800
227+00	237+00	1,000	264+00	271+00	199	219+00	220+00	39	212+00	219+00	199	220+00	229+00	900
271+00	281+00	1,000	289+00	296+00	199	237+00	264+00	732	229+00	237+00	225	264+00	274+00	1,000
296+00	305+00	900	306+00	313+00	199	281+00	289+00	225	274+00	281+00	199	289+00	298+00	900
313+00	322+00	900	328+00	335+00	199	305+00	306+00	39	298+00	305+00	199	306+00	315+00	900
335+00	348+00	1,300	361+00	368+00	199	322+00	328+00	173	315+00	322+00	199	328+00	341+00	1,300
368+00	371+00	300	396+00	403+00	199	348+00	361+00	359	341+00	348+00	199	361+00	371+00	1,000
403+00	418+30	1,530				371+00	396+00	679	408+00	415+00	199	396+00	408+00	1,200
SUBTOTAL		13,615	SUBTOTAL		2,277	SUBTOTAL		2,876	SUBTOTAL		2,632	SUBTOTAL		12,330
													TOTAL	33,730