NC1010,11/10/2003,G:\TRA\30135\TRA\GEOPAK\Quant\Drainage_summaries.xls

NC1010

COMPUTED BY: LGC DATE: 2/20/2002

CHECKED BY: BDS DATE: 5/20/2002

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.	SHEET NO.
R-2911A	3-A

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200mm & UNDER)

STATION (SIZE / THICKNESS OR GAUGE)	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE) 300	375	450	600	750	900	1050	1200	CLASS IV R.C. PIPE 750	900	1200
Sheet 04																		
09+83.240	RT	1		268.15														
09+83.240	RT	1	OUT		267.31	267.30		2.4										
11+72.885	RT	2		270.32														
11+72.885	RT	2	3		269.41	268.79			42.0									
11+93.298	RT																	
12+15.040	RT	3		269.74														
12+15.040	RT	3	4		268.64	267.66			90.0									
12+17.340	RT																	
Sheet 05																		
12+46.460	LT																	
12+51.464	RT																	
12+79.741	RT																	
13+05.000	RT	4		268.85														
13+05.000	RT	4	5		267.66	267.68		4.8										
13+05.000	RT	5		268.49														
13+05.000	RT	4	6		267.66	267.22				55.2								
13+07.795	LT																	
13+11.929	RT																	
13+42.633	RT																	
13+60.000	RT	6		268.23														
13+60.000	LT	7		268.23														
13+60.000	L/R	7	6		266.94	267.07				19.2								
13+60.000	LT	7	8		266.79	265.76				100.8								
13+87.770	RT																	
14+05.198	RT																	
14+47.907	RT																	
14+60.000	LT	8		267.11														
14+60.000	L/R	8	9		265.76	266.20			18.0									
14+60.000	RT	9		267.11														
14+60.000	LT	8	10		265.61	265.14					60.0							
14+76.639	RT																	
14+95.165	RT																	
15+15.233	LT																	
15+20.000	LT	10		266.26														
15+20.000	LT	10	11		265.14	265.53		6.0										
15+20.000	LT	11		266.37														
15+20.000	LT	10	14		264.99	264.05					57.6							
15+24.048	RT																	
15+57.053	RT																	
15+77.000	LT	14		265.17														
15+77.000	L/R	14	13		264.05	264.26			19.2									
15+77.000	RT	13		265.17														
15+77.000	RT	13	12		264.33	264.79		27.6										
15+50.123	RT	12		265.68														
Sheet 06																		
10+24.752 -Y-	LT	15		264.37														
10+24.752 -Y-	LT	15	OUT		263.72	263.70			4.8									
10+24.752 -Y-	L/R	15	16		263.72	263.77			12.0									
10+24.794 -Y-	RT	16		264.43														
SHEET TOTALS								40.8	186.0	175.2	117.6							

STATION	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 (1.63)	400 (1.63)	450 (1.63)	600 (1.63)	800 (2.01)	900 (2.01)	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	C.S.P.	QUANITIES FOR DRAINAGE STRUCTURES PER EACH (0 THRU 1.50)	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') METERS A 1.5 THRU 3.00	B 3.00 AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOODS STANDARD 840.03 TYPE OF GRATE E	F	G
Sheet 04																		
09+83.240												1						1
09+83.240																		
11+72.885												1			1		1	
11+72.885																		
11+93.298																		
12+15.040												1			1		1	
12+15.040																		
12+17.340																		
Sheet 05																		
12+46.460																		
12+51.464																		
12+79.741																		
13+05.000												1			1		1	
13+05.000																		
13+05.000												1						
13+05.000																		
13+07.795																		
13+11.929																		
13+42.633																		
13+60.000												1			1		1	
13+60.000												1			1			1
13+60.000																		
13+60.000																		
13+87.770																		
14+05.198																		
14+47.907																		
14+60.000												1			1			1
14+60.000																		
14+60.000												1			1		1	
14+60.000																		
14+76.639																		
14+95.165																		
15+15.233																		
15+20.000												1			1			1
15+20.000																		
15+20.000												1						
15+20.000																		
15+24.048																		
15+57.053																		
15+77.000												1			1			1
15+77.000																		
15+77.000												1			1		1	
15+77.000																		
15+50.123												1						
Sheet 06																		
10+24.752 -Y-												1					1	
10+24.752 -Y-																		
10+24.752 -Y-																		
10+24.794 -Y-												1						1
SHEET TOTALS												16			10		7	6

STATION	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "D" STD. 840.19 OR 840.28	M.D.I. FRAME WITH GRATE STD. 840.20	M.D.I. FRAME WITH TWO GRATES STD. 840.20	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	C.B. STD. 840D01 OR STD. 840D02 (SHEET 2R)*	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	T.B.J.B. STD. 840.34	CONCRETE APRON FOR CB STD. 852.05	CONCRETE APRON FOR DI STD. 852.06	CORR. STEEL ELBOWS NO. & SIZE 300	400	450	600	800	900	CONC. COLLARS CL. "B" M^3 STD. 840.72 450	1200	CONC. & BRICK PIPE PLUG, M^3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
Sheet 04																													
09+83.240																													C.B. STD. 840D01 OR STD. 840D02 (SHEET 2R)
09+83.240																													
11+72.885																													
11+72.885																													
11+93.298																												7	
12+15.040																													
12+15.040																													
12+17.340																												6	
Sheet 05																													
12+46.460																												9	
12+51.464																												6	
12+79.741																												6	
13+05.000																													
13+05.000																													
13+05.000	1	1																											
13+05.000																													
13+07.795																												12	
13+11.929																												6	
13+42.633																												6	
13+60.000																													
13+60.000																													
13+60.000																													
13+60.000																													
13+87.770																												6	
14+05.198																												7	
14+47.907																												7	
14+60.000																													
14+60.000																													
14+60.000																													
14+60.000																													
14+76.639																												7	
14+95.165																												7	
15+15.233																												25	
15+20.000																													
15+20.000																													
15+20.000	1	1																											
15+20.000																													
15+24.048																												7	
15+57.053																												7	
15+77.000																													
15+77.000																													
15+77.000																													
15+77.000																													
15+50.123	1	1																											
Sheet 06																													
10+24.752 -Y-																													C.B. STD. 840D01 OR STD. 840D02 (SHEET 2R)
10+24.752 -Y-																													
10+24.752 -Y-																													
10+24.794 -Y-																													C.B. STD. 840D01 OR STD. 840D02 (SHEET 2R)
SHEET TOTALS	3	3																										130	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
M.D.I.(N.S.)	MEDIAN DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX