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

LTNC1005

COMPUTED BY: LGC DATE: 2/20/2002

CHECKED BY: BDS DATE: 5/20/2002

METRIC

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

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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

STATION	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	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)
25+08.000	LT	32	IN		273.89	274.30			6.0															
25+08.000	L/R	32	33		273.66	273.50				19.2														
25+08.000	RT	33		274.72																				
25+08.000	RT	33	OUT		273.35	273.00				7.2														
Sheet 09																								
26+19.000	LT	34		272.30																				
26+19.000	L/R	34	35		271.39	271.30			22.8															
26+19.000	RT	35		272.30																				
26+19.000	RT	35	OUT		271.15	270.90			14.4															
26+81.934	LT	37		269.64																				
26+81.934	L/R	37	37A		268.72	268.77			18.0															
26+81.934	RT	37A		269.90																				
26+81.934	LT	37	38		268.72	263.84			144.0															
28+13.698	RT																							
28+27.000	LT	38		264.75																				
28+21.306	LT	36							13.2															
28+27.000	L/R	38	IN		263.76	265.50				24.0														
28+27.000	LT	38	39		263.69	262.65				34.8														
28+48.118	LT																							
28+61.533	LT	39		263.66																				
28+61.533	L/R	39	40		262.65	263.23			12.0															
28+61.533	RT	40		264.15																				
28+61.533	LT	39	44		262.50	258.82				108.0														
28+68.800	LT																							
28+69.299	LT																							
29+70.406	LT	44		259.97																				
10+26.078 -Y4-	LT	41																						
10+42.378 -Y4-	LT	42																						
Sheet 10																								
29+70.406	L/R	44	43B		258.82	259.31			12.0															
29+70.406	RT	43B		260.26																				
29+70.406	RT	43B	43A		259.31	259.34			3.6															
29+68.000	RT	43A		260.26																				
29+68.000	RT	43A	43		259.34	259.68			8.4															
29+60.000	RT	43		260.60																				
29+70.406	LT	44	45		258.82	257.21					50.4													
30+20.000	LT	45		258.35																				
30+20.000	L/R	45	46		257.06	256.94					19.2													
30+20.000	RT	46		258.38																				
30+20.000	RT	46	50		256.79	252.53					132.0													
31+51.650	RT	50		253.82																				
31+17.628	LT	48			249.36	244.73																		24.0
31+40.407	L/R	47			246.37	244.73											58.8							
31+51.650	LT	49		254.06																				
31+51.650	L/R	49	50		253.14	252.53			12.0															
31+51.650	RT	50	OUT		252.38	250.00																14.4		
31+97.965	RT	50A		253.42																				
31+97.965	RT	50A	OUT		250.15	249.10														10.8				
32+39.661	LT	51		252.77																				
32+39.661	LT	51	52		251.85	251.84			1.2															
SHEET TOTALS									267.6	193.2	201.6						58.8			10.8		14.4		24.0

ENDWALLS: STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE), CU. METERS. QUANITIES FOR DRAINAGE STRUCTURES: *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B'), METERS. FRAME, GRATES, AND HOODS STANDARD 840.03, TYPE OF GRATE.

STATION	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS R.C.P.	ENDWALLS C.S.P.	PER EACH (0 THRU 1.50)	A 1.5 THRU 3.00	B 3.00 AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	E	F	G	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
25+08.000																																									
25+08.000																																									
25+08.000						1			1		1																														
25+08.000																																									
Sheet 09																																									
26+19.000						1			1			1																													
26+19.000																																									
26+19.000						1			1		1																														
26+19.000																																									
26+81.934						1			1			1																													
26+81.934																																									
26+81.934						1			1		1																														
26+81.934																																									
28+13.698																																								7	
28+27.000						1			1			1																													
28+21.306																																									
28+27.000																																									
28+27.000																																									
28+48.118																																								8	
28+61.533						1			1			1																													
28+61.533																																									
28+61.533						1			1			1																													
28+61.533																																									
28+68.800																																								6	
28+69.299																																								6	
29+70.406						1			1			1																													
10+26.078 -Y4-	6.0																																								
10+42.378 -Y4-	7.2																																								
Sheet 10																																									
29+70.406																																									
29+70.406						1			1			1																	1												
29+70.406																																									
29+68.000						1			1			1																	1												
29+68.000																																									
29+60.000						1			1			1																	1												
29+70.406																																									
30+20.000						1			1			1																													
30+20.000																																									
30+20.000						1	0.09		1		1																														
30+20.000																																									
31+51.650						1			1		1																														
31+17.628																																				2					
31+40.407				2.6																																					METHOD 'B' INSTALLATION
31+51.650						1			1		1																		1												
31+51.650																																									
31+51.650																																		2							
31+97.965						1	1.5	0.27	1		1																														
31+97.965																																2									
32+39.661						1			1	1																			1												
32+39.661																																									
SHEET TOTALS	13.2			2.6		18	1.59	0.27	18	1	7	10																	5			2		2		2				27	

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