RD104,10/13/00,G:\Admin\DataMasters\Excel_sheets\Drainage_Summaries.xls

COMPUTED BY: RWZ DATE: MARCH 2004

CHECKED BY: WCP DATE: APRIL 2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC | PROJECT NO. R-513C | SHEET NO. 3-E

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	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	1000 2.01	1200 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.	QUANTITIES FOR DRAINAGE STRUCTURES *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	PER EACH (0 THRU 1.50)	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE 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 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	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT D.I. TO J.B.	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
301+00 -L-	CL	120		42.17																								1																											
		120	121		41.36	41			27.6																																														
301+05 -L-	RT	121		41.89	41	40.73				31.2																		1																											
302+00 -L-	RT	122			40.21	39.9								118.8													3.4																											
302+60 -L-	CL	123		41.54																								1																											
		123	124		40.98	39.9			58.8																																												
303+20 -L-	RT	124		41.7																								1																											
		124	125		39.9	39.95	*		31.2																																												
1+20 -RPD-	LT	125		40.5																								1																											
304+20 -L-	RT	126		40.25																								1																											
		126	127		39.61	39.53	*			31.2																																											
304+20 -L-	CL	127		40.9																								1																											
		127	128		39.53	39.5	*			8.4																																											
304+20 -L-	LT	128		40.5																								1																											
		128	129		39.5	39.43	*			22.8																																											
304+20 -L-		129		40.5	39.43	39.3				50.4																		1																											
36+40 -Y8-	RT	130		41.28																								1																											
		130	126		40.28	39.61			31.2																																												
		130	137		40.28	40.41			26.4																																												
34+06 -Y3-	RT	131		51.6																								1																											
		131	132		50.79	50.69			21.6																																												
34+11 -Y3-	LT	132		51.6	50.69	41.8											36.0											1																										2 @ 400				
34+80 -Y3-	CL	133			42.4	41.6				92.4 (CL IV)																																												
35+95 -Y3-	CL	134			41.85	41.36				67.2																																												
4+00 -RPD-	CL	135			40.51	40.44							54.0														2.6																											
31+69 -Y8-	CL	136			41	40.8							37.2														2.6																										7.2	
10+20 -Y8B-	CL	137		41.22																								1																											
304+98 -L-	LT	138		41.05																																																	SEE DETAIL SHEET 2K
		138	139		40.14	40.18			21.6																																											
305+20 -L-	CL	139		40.74																								1																											
11+60 -Y9-	LT	140																								7.2																											
13+29 -Y9-	CL	141			40.4	40.3				26.4																																											
8+43 -Y8-	RT	142																								9.6																											
41+65 -Y8-	CL	145			40.2	40.1						28.8																																									
16+05 -Y9-	CL	146		41	39.9	39.8						33.6																1																										3.6	REMOVE FES
310+28 -L-	LT	147		41.9	41.01	40.67	*			25.2																		1																											
		147	150		41.01	41.94	*			172.8																																											
17+35 -Y9-	LT	147A																								9.6																											
42+30 -Y8-	RT	148		41.7	40.81	40.66				12.0																		1																											
SHEET TOTALS									218.4	447.6		62.4	91.2	118.8			36.0											26.4		8.6		17																						2 @ 400			10.8	
										92.4 (CL IV)																																											

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