COMPUTED BY:	PMW/SHB/RM	DATE:	7/29/2004
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RAL-R72

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.	SHEET NO.
R-2539C	3-H

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

CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	300	375	450	450 CLASS IV	600	600 CLASS IV	750	750 CLASS IV	900	900 CLASS IV	1050	1050 CLASS IV	1200
SHEET 19																				
L 208+39	L																			
L 208+50	L																			
L 208+74	L	132		2.95	2.34															
L 208+74	L	132	133		2.34	2.32	X	6.0												
L 208+74	L	133		3.30	2.32															
L 208+74	L	133	134		2.32	2.20	X		21.6											
L 208+96	L	134		3.24	2.20															
L 208+95	R	135		3.25	2.16															
L 208+95	R	135	OUT		2.16	2.14	X			7.2										
L 209+10	R	136		3.23	2.32															
L 209+10	R	136	135		2.32	2.16	X		15.6											
L 209+04	L	137		2.58	1.97															
L 209+04	L	137	138		1.97	1.97	X	15.6												
L 209+04	L	138		2.96	1.97															
L 209+04	L	138	140		1.97	1.92	X		8.4											
L 209+11	L	139		2.81	2.12															
L 209+11	L	139	140		2.12	1.92		19.2												
L 209+12	L	140		2.98	1.92															
L 209+12	L	140	142		1.92	1.87	X			21.6										
L 209+29	L	141		2.77	2.08															
L 209+29	L	141	142		2.08	1.87		6.0												
L 209+29	L	142		3.25	1.87															
L 209+29	L	142	143		1.87	1.83	X			12.0										
L 209+41	L	IN	143		2.93	1.83				6.0										
L 209+41	L	143		3.28	1.83															
L 209+41	L	143	144		1.83	1.75	X			27.6										
L 209+68	L	144		3.30	1.75															
L 209+68	L	IN	144		2.55	1.75				6.0										
L 209+68	L	144	148		1.75	1.67	X			27.6										
L 209+65	R	145		3.31	1.18															
L 209+65	R	145	OUT		1.18	1.17	X													7.2
L 209+53	R	146																9.6		
L 209+95	L	147		2.75	2.14															
L 209+95	L	147	148		2.14	1.67		7.2												
L 209+95	L	148		3.24	1.67															
L 209+95	L	148	150		1.67	1.60	X			24.0										
L 210+19	L	149		3.19	1.60															
L 210+19	L	149	150		1.60	1.60	X	6.0												
L 210+19	L	150		3.19	1.60															
L 210+19	L	150	151		1.60	1.57	X			9.6										
L 210+29	L	IN	151		1.82	1.57				6.0										
L 210+29	L	151		3.18	1.57															
L 210+29	L	151	152		1.57	1.37	X			6.0										
L 210+35	L	152		3.18	1.37															
L 210+35	M	152	156		1.37	1.32	X											19.2		
SHEET TOTALS								60.0	45.6	153.6								28.8		7.2

STATION	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 400 / 1.63	DUCTILE IRON PIPE, CLASS 50 (UNLESS NOTED OTHERWISE) 300	400	450	600	750	900	1050	1200	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	750mm 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 METERS FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') METERS A 1.5 THRU 3.00	B 3.00 AND ABOVE
L 208+74 (132)																1		
L 208+74 (133)																1		
L 208+96 (134)																1		
L 208+95 (135)																1		
L 209+10 (136)																1		
L 209+04 (137)																1		
L 209+04 (138)																1		
L 209+11 (139)																1		
L 209+12 (140)																1		
L 209+29 (141)																1		
L 209+29 (142)																1		
L 209+41 (143)																1		
L 209+68 (144)																1	0.05	
L 209+65 (145)																1	0.63	
L 209+95 (147)																1		
L 209+95 (148)																1	0.07	
L 210+19 (149)																1	0.09	
L 210+19 (150)																1	0.09	
L 210+29 (151)																1	0.11	
L 210+35 (152)																1	0.31	
SHEET TOTALS																20	1.35	

STATION	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	T.B.D.I. STD. 840.35 OR 840.36	T.B.D.I. FRAME AND GRATE STD. 840.37	DRIVEWAY D.I.STD. 840.30	DRIVEWAY GRATE & FRAME (M)	MOD. CONC. FLUME W/ CONC. DITCH FOR 750 C&G (SEE DETAIL 2-Z)	J.B. STD. 840.31 OR 840.32	M.H. FRAME AND COVER STD. 840.54	D.I. NARROW FRAME AND GRATE STD. 840.13	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 GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. FRAME WITH GRATE STD. 840.29	M.D.I. FRAME WITH TWO GRATES STD. 840.29	MOD.CONC. FLUME W/ CONC./RIP RAP DITCH FOR 200X450 CURB (SEE DETAIL 2-AA)	MOD.CONC. FLUME W/ RIP RAP DITCH FOR 750 C&G (SEE DETAIL 2-Z)	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" M^3 STD. 840.72	CONC. & BRICK PIPE PLUG, M^3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
L 208+39																													10.9	375 RCP
L 208+50																													6.1	375 RCP
L 208+74 (132)					1	1																								
L 208+74 (133)	1			1																										
L 208+74 (133-134)																													10.4	450 RCP
L 208+96 (134)	1			1																										
L 208+95 (135)	1		1																											
L 209+10 (136)	1	1																												
L 209+04 (137)					1	1																								
L 209+04 (138)	1		1																											
L 209+11 (139)					1	1																								
L 209+12 (140)	1			1																										
L 209+29 (141)					1	1																								
L 209+29 (142)	1		1																											
L 209+41 (IN-143)																													7.5	375 RCP
L 209+41 (143)	1		1																											
L 209+41 (143-144)																													4.2	375 RCP
L 209+68 (144)	1			1																										
L 209+65 (145)	1		1																											
L 209+65 (145-OUT)																													6.3	375 RCP
L 209+53 (146)																													9.3	REMOVE 750 CMP & EX. HW (1-2.7 WD & 1-2.9 WD)
L 209+95 (147)					1	1																								
L 209+95 (147-148)																													6.1	375 RCP
L 209+95 (148)	1			1																										
L 210+19 (149)					1	1																								
L 210+19 (150)	1			1																										
L 210+19 (150-151)																													7.4	375 RCP
L 210+29 (151)	1	1																												
L 210+29 (151-152)																													4.8	450 RCP
L 210+35 (152)	1		1																											
L 210+35 (152-156)																													18.9	1200 RCP
SHEET TOTALS	14	2	6	6	6	6																							91.9	

ABBREVIATIONS

C.B.	CATCH BASIN
B.D.O.	BERM DRAIN OUTLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
O.T.C.B.	OPEN THROAT CATCH BASIN
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX