COMPUTED BY: FMY DATE: 7/12/04
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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2568B	3-F

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

CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)
NOTE: * CLASS IV R.C. PIPE WITH METHOD 'B' INSTALLATION
▲ CLASS IV R.C. PIPE
■ WELDED STEEL PIPE

BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)

STATION LOCATION	STRUCTURE NO. (FROM - TO)	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	R.C. PIPE SIZE 300	375	450	600	750	900	1050	1200	C.S. PIPE 300 (THICKNESS OR GAUGE 1.63)	400 (1.63)	450 (1.63)	600 (1.63)	800 (2.01)	900 (2.01)	1000 (2.77)	1200 (2.77)
-L- 69+03 LT.																					
-L- 69+07 LT.	169																				
-L- 69+32 LT.																					
-L- 69+83 LT.																					
-L- 69+93 LT.	170																				
-L- 70+54 LT.																					
-L- 70+79 LT.																					
-L- 71+11 LT.																					
-Y14- 10+34 LT.	171	239.30																			
	171 - 171A		238.46	241.76			55.2														
-Y14- 10+90 LT.	171A	242.60																			
	171A - 171B		241.76	242.00			14.4														
-Y14- 11+10 LT.	171B	242.60																			
	171 - 172		238.46	237.18											3.6						
-L- 71+25 RT.	172	240.50																			
	172 - 173		237.18	242.54											28.8						
-L- 71+30 RT.	173	243.35																			
-L- 72+18 LT.	174																				
-L- 73+40	175	243.92																			
	175 - 176		242.72	242.93			21.6														
-L- 73+39 LT.	176	243.49																			
-L- 73+40 LT.	176 - 177		242.93	245.00											4.8						
-L- 73+66 LT.																					
-L- 73+83 LT.	177A																				
	175 - 178		242.72	241.47			141.6														
-L- 74+82 LT.	178	242.28																			
-L- 74+80 LT.	178 - 179		240.10	241.47				24.0													
-Y11- 12+98	180								39.6												
-Y11- 11+64 RT.	181																				
-Y11- 10+49 RT.	182																				
-Y13- 10+87 RT.	183							4.8													
-Y13- 10+58 RT.																					
-Y13- 10+87 LT.	184							4.8													
-Y11- 11+60 LT.	185																				
-L- 74+92 RT.																					
-L- 75+21 RT.																					
-Y12- 10+12																					
-Y12- 10+23	186									37.2											
-RTLN2- 75+49	187		232.65								▲27.6										
-RTLN2- 75+52 LT.	T188																				
-RTLN2- 75+52 LT.	188	240.40																			
-LTLN2- 75+90	188 - 189		232.65	230.80							▲102.0										
-LTLN2- 76+12 LT.																					
-RTLN2- 76+02 RT.	191 - 192		237.50	237.67			18.0														
-RTLN2- 76+20 RT.	192	238.25																			
-RTLN2- 76+20 RT.	192 - 193		237.67	239.50											4.8						
-RTLN2- 76+59 LT.	194	237.97																			
SHEET TOTALS							250.8	33.6	39.6	37.2	▲129.6				42.0						

STATION LOCATION	375 mm SIDE DRAIN PIPE	450 mm SIDE DRAIN PIPE	600 mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	C.S.P.	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS A 1.50 THRU 3.00	B 3.00 AND ABOVE	C.B. STD. 840.01 OR 840.02	FRAME, GRATES & HOOD STANDARD 840.03 TYPE GRATE E	F	G	D.I. STD.840.14 OR STD.840.15	D.I. GRATES & FRAMES 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. GRATES & FRAMES STD.840.22	BERM DRAIN OUTLET STD. 850.10	J.B. STD.840.31 OR STD. 840.32	CONVERT D.I. TO J.B. (SEE SHEET 2-H)	M.H. FRAME & COVER STD.840.54	CORR. STEEL ELBOW NO. & SIZE	CONC. COLLARS, CL. "B" m3 STD.840.72	CONC. & BRICK PIPE PLUG m3 STD.840.71	PIPE REMOVAL (meters)	REMARKS
-L- 69+03 LT.																										13.3	REMOVE EXISTING 375 mm PVC PIPE
-L- 69+07 LT.	8.4																										375 PIPE
-L- 69+32 LT.																										6.3	REMOVE EXISTING 300 mm CONC. PIPE
-L- 69+83 LT.																										15.1	REMOVE EXISTING 450 mm CONC. PIPE
-L- 69+93 LT.	8.4																									7.7	375 PIPE REMOVE EXISTING 375 mm CONC. PIPE
-L- 70+54 LT.																										12.8	REMOVE EXISTING 300 mm PVC PIPE
-L- 70+79 LT.																										21.1	REMOVE EXISTING 375 mm CONC. PIPE
-L- 71+11 LT.																										8.9	REMOVE EXISTING 300 mm CONC. PIPE
-Y14- 10+34 LT.						1										1		1									2GI
																											375 PIPE
-Y14- 10+90 LT.						1										1		1									2GI
																											375 PIPE
-Y14- 11+10 LT.						1										1		1									2GI
																											400 CSP
-L- 71+25 RT.																					1	1					CONVERT D.I. TO J.B. W/MH COVER
																											400 CSP
-L- 71+30 RT.						1										1		1									2GI
-L- 72+18 LT.	10.8																										375 PIPE
-L- 73+40						1										1		1									2GI
																											375 PIPE
-L- 73+39 LT.						1										1		1									2GI
-L- 73+40 LT.																			1				1 - 400				400 CSP W/ELBOW & BDO
-L- 73+66 LT.																										71.2	REMOVE EXISTING 600 mm CONC. PIPE
-L- 73+83 LT.	10.8																										375 PIPE
																											375 PIPE
-L- 74+82 LT.						1	.68									1		1									2GI
-L- 74+80 LT.																											OPEN ENDED 450 PIPE
-Y11- 12+98																											OPEN ENDED 600 PIPE
-Y11- 11+64 RT.	13.2																										375 PIPE
-Y11- 10+49 RT.	8.4																										375 PIPE
-Y13- 10+87 RT.																								0.33			COLLAR & EXTEND 450 PIPE
-Y13- 10+58 RT.																										6.3	REMOVE EXISTING 300 mm CONC. PIPE
-Y13- 10+87 LT.																								0.33			COLLAR & EXTEND 450 PIPE
-Y11- 11+60 LT.	8.4																										375 PIPE
-L- 74+92 RT.																										3.1	REMOVE EXISTING 375 mm CONC. PIPE
-L- 75+21 RT.																										13.3	REMOVE EXISTING 375 mm CONC. PIPE
-Y12- 10+12																										26.1	REMOVE EXISTING 450 mm CONC. PIPE
-Y12- 10+23																											OPEN ENDED 750 PIPE
-RTLN2- 75+49																											OPEN ENDED 900 CLASS IV PIPE
-RTLN2- 75+52 LT.						1									1			*1									* TEMPORARY 2GI REMOVE EXIST. HW
-RTLN2- 75+52 LT.						1	1.5	4.75												1						17.1	J.B. REMOVE EXIST. 450 mm CONC. PIPE
-LTLN2- 75+90																											OPEN ENDED 900 CLASS IV PIPE
-LTLN2- 76+12 LT.																										14.9	REMOVE EXISTING 900 mm CONC. PIPE
-RTLN2- 76+02 RT.																											OPEN ENDED 375 PIPE
-RTLN2- 76+20 RT.						1										1		1									2GI
-RTLN2- 76+20 RT.																			1				1 - 400				400 CSP W/ELBOW & BDO
-RTLN2- 76+59 LT.						1										1		1									2GI
SHEET TOTALS	68.4					11	2.18	6.175							1	9		10	2 @ 400	1	1	1	2 - 400	0.66		237.2	

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

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