COMPUTED BY: C.M.W DATE: AUGUST 14, 2004
CHECKED BY: T.A.M. DATE: AUGUST 14, 2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. R-977A | SHEET NO. 3-J

METRIC

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

STATION	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE 300	375	450	600	750	900	1050	1200	BITUMINOUS COATED C.S. PIPE TYPE B 300 (1.63)	400 (1.63)	450 (1.63)	600 (1.63)	600 (1.63 UNCOATED)	(2.01)	800 (2.01)	800	900 (2.01)	900	1000 (2.77)	1000	1200 (2.77)	1200 (3.51)
-LREV- 63+83 RT	281	282		483.73	483.83												9.6											
-LREV- 63+93 RT	282		484.57	483.83																								
-LREV- 63+93 RT	282	283		483.83	485.50												4.8											
-LREV- 63+92 RT	282	284		483.83	487.11												40.8											
-LREV- 64+33 RT	284		487.75	487.11																								
-LREV- 64+33 RT	284	285		487.11	496.06											42.0												
-LREV- 64+69 RT	285		497.33	496.06																								
-LREV- 64+69 RT	285	286		496.06	496.43			18.0																				
-LREV- 64+69 RT	286		497.24	496.43																								
-LREV- 67+01 CL	287		495.32	494.43																								
-LREV- 67+01 RT	287	288		494.43	493.26				30.0																			
-LREV- 67+19 RT	288		494.71	493.26																								
-LREV- 67+19 RT	288	289		493.26	477.30													57.6										
-LREV- 68+01 RT	290	291																10.8										
-LREV- 69+71 RT	295	296		477.30	478.30													12.0										
-LREV- 69+73 LT	292	293		492.64	492.50			25.2																				
-LREV- 69+81 RT	293		493.53	492.50																								
-LREV- 69+81 RT	293	294		492.50	478.30												36.0											
-LREV- 70+06 RT	297	298																										
-LREV- 70+58 CL	299		492.83	491.74																								
-LREV- 70+58 RT	299	300		491.74	491.69				18.0																			
-LREV- 70+58 RT	300		493.63	491.69																								
-LREV- 70+58 RT	300	301		491.69	480.70												39.6											
-LREV- 71+20 RT	302	303																										
-LREV- 71+31 RT	304	305		486.55	492.95											30.0												
-LREV- 71+26 RT	305		493.87	492.95																								
-LREV- 72+05 RT	306		494.95	494.03																								
-LREV- 72+05 RT	306	307		494.03	490.90											13.2												
-LREV- 72+19 RT	308	309		486.50	487.50																			16.8				
-LREV- 72+26 RT	310	311		488.90	492.04						72.0																	
-Y5- 12+41 RT	312	313		493.70	494.36					44.4																		
-LREV- 74.41 RT	314	315		495.90	496.80				14.4																			
-LREV- 74+50 RT	315		497.69	496.80																								
-LREV- 74+50 RT	315	316		496.80	496.94				22.8																			
-LREV- 74+57 CL	316		497.95	496.94																								
-LREV- 76+40 RT	317	318		508.30	500.82											20.4												
SHEET TOTAL								43.2	85.2	44.4	72.0					105.6	130.8	80.4						16.8				

STATION	150mm PERFORATED HDPE PIPE	600 BORE AND JACK	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	900mm SIDE DRAIN PIPE	MODIFIED CONCRETE FLUME (SEE SHEET 2-P)	ENDWALLS STD. 838.01 OR STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P. (CM)	C.S.P. (CM)	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	375 x 375 x 375 TEE	C.B. STD. 840.01 OR 840.02	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & 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 GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24
-LREV- 63+83 RT																												
-LREV- 63+93 RT										1																		
-LREV- 63+93 RT																												
-LREV- 63+92 RT																												
-LREV- 64+33 RT										1																		
-LREV- 64+33 RT																												
-LREV- 64+69 RT										1												1						
-LREV- 64+69 RT																												
-LREV- 64+69 RT										1												1				1		
-LREV- 67+01 CL										1												1				1		
-LREV- 67+01 RT																												
-LREV- 67+19 RT										1											1				1	1		
-LREV- 67+19 RT									1.1																			
-LREV- 68+01 RT																												
-LREV- 69+71 RT									1.1																			
-LREV- 69+73 LT																												
-LREV- 69+81 RT										1												1						
-LREV- 69+81 RT																												
-LREV- 70+06 RT				9.6																								
-LREV- 70+58 CL										1											1				1	1		
-LREV- 70+58 RT																												
-LREV- 70+58 RT										1	0.44											1					1	
-LREV- 70+58 RT																												
-LREV- 71+20 RT			7.2																									
-LREV- 71+31 RT																												
-LREV- 71+26 RT										1												1						
-LREV- 72+05 RT										1												1						
-LREV- 72+05 RT																												
-LREV- 72+19 RT																												
-LREV- 72+26 RT																												
-Y5- 12+41 RT																												
-LREV- 74.41 RT																												
-LREV- 74+50 RT										1												1				1		
-LREV- 74+50 RT																												
-LREV- 74+57 CL										1												1				1		
-LREV- 76+40 RT																												
SHEET TOTAL			7.2	9.6					2.2	13	0.44										2	9			2	6	1	

STATION	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	M.H. STD. 840.51, 840.52, OR 840.53	M.H. FRAME & COVER STD. 840.54	O.T.C.B. STD. 840.04 OR 840.05	SPRING BOX STD. 840.41	150mm C.S. Pipe, 1.63mm THICK (SPRING BOX)	PERFORATED 150mm C.S. Pipe STUB. 1.63mmTHICK	M.D.I. FRAME WITH TWO GRATES STD. 840.33 (ANGLE VANE)	900 x 900 x 900mm PERF C.S.P. TEE RISER 2.01mm THICK	800 x 800 x 800mm PERF C.S.P. TEE RISER 2.01mm THICK	600 x 600 x 600mm PERF C.S.P. TEE RISER 1.63mm THICK	450 x 450 x 450mm PERF C.S.P. TEE RISER 1.63mm THICK	SLUICE GATE (FOR 600 C.S.P.)	CONC. COLLARS CL. "A" CM STD 840.72	CONC. & BRICK PIPE PLUG C.M. STD. 840.71	ADJUST EXISTING D.I.	PIPE REMOVAL (LINEAR METER)	C.S. ELBOWS NO.	C.S. ELBOWS SIZE	REMARKS
-LREV- 63+83 RT																					
-LREV- 63+93 RT					1																
-LREV- 63+93 RT																			1	450	
-LREV- 63+92 RT																					
-LREV- 64+33 RT					1																
-LREV- 64+33 RT																					
-LREV- 64+69 RT									1												
-LREV- 64+69 RT																					
-LREV- 64+69 RT																					
-LREV- 67+01 CL																					
-LREV- 67+01 RT																					
-LREV- 67+19 RT																					3GI
-LREV- 67+19 RT																			2	600	
-LREV- 68+01 RT												1						10.8			TEMP. PIPE AND RISER
-LREV- 69+71 RT														1							
-LREV- 69+73 LT																0.29					
-LREV- 69+81 RT									1												
-LREV- 69+81 RT																			2	450	
-LREV- 70+06 RT																					
-LREV- 70+58 CL																					3GI
-LREV- 70+58 RT																					
-LREV- 70+58 RT																					
-LREV- 70+58 RT																			2	450	
-LREV- 71+20 RT																					
-LREV- 71+31 RT																			2	400	
-LREV- 71+26 RT									1												
-LREV- 72+05 RT									1												
-LREV- 72+05 RT																			2	400	
-LREV- 72+19 RT										1											PERMANENT
-LREV- 72+26 RT																					
-Y5- 12+41 RT																					
-LREV- 74.41 RT																					
-LREV- 74+50 RT																					
-LREV- 74+50 RT																		13.2			
-LREV- 74+57 CL																					
-LREV- 76+40 RT																			1	400	
SHEET TOTAL					2				4	1		1		1		0.29		24.0	5@	400	
																			5@	450	
																			2@	600	

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 JUCTION BOX

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