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

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-977A	3-F

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

STATION / SIZE / THICKNESS OR GAUGE	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	600 / 1.63 (UNCOATED)	2.01	800 / 2.01	800	900 / 2.01	900	1000 / 2.77	1000	1200 / 2.77	1200 / 3.51
-Y3- 11+44 RT	152	154		483.44	485.71									39.6														
-Y3- 12+00 RT	154		488.30	485.71																								
-Y3- 12+00 RT	154	155		485.71	486.38									21.6														
-Y3- 12+00 RT	154	156		485.71	485.80					21.6																		
-Y3- 12+01 LT	156		487.25	485.80																								
-Y3- 12+01 LT	156	157		485.80	491.11												8.4											
-LREV- 41+84 RT	157		491.75	491.11																								
-LREV- 41+84 RT	157	158		491.11	498.11												25.2											
-LREV- 42+05RT	158		498.75	497.86																								
-LREV- 42+05RT	158	159		497.86	507.09											25.2												
-LREV- 42+05RT	159		508.71	507.09																								
-LREV- 42+05RT	159	160		507.09	507.26			19.2																				
-LREV- 41+98 RT	160		508.14	507.26																								
-LREV- 42+05 RT	158	161		498.11	507.05											67.2												
-LREV- 42+65 RT	161		508.97	507.05																								
-LREV- 42+65 RT	161	162		507.05	508.52			24.0																				
-LREV- 42+65 CL	162		509.33	508.52																								
-Y3- 13+12 RT	163	164		490.30	490.44					30.0																		
-Y3- 13+29 LT	164		491.25	490.44																								
-Y3- 13+29 LT	164	165		490.44	492.00													12.0										
-LREV- 43+03 RT	166	167		–	–												15.6											
-LREV- 43+20 RT	168	169		501.10	506.40				74.4 (CL IV) (450)																			
-LREV- 43+25 RT	170	171		501.18	510.39												48.0											
-LREV- 43+70 RT	171		511.28	510.39																								
-LREV- 43+70 RT	171	172		510.39	511.03			26.4																				
-LREV- 43+80 CL	172		511.84	511.03																								
-Y3- 14+18 LT	173		495.61	494.80																								
-Y3- 14+18 LT	173	174		494.80	494.16			25.2																				
-Y3- 13+92 RT	175	176		–	–																							
-Y3- 15+21 RT	177		501.28	500.37																								
-Y3- 15+21 RT	177	178		500.37	497.96											10.8												
-LREV- 44+70 RT	179		514.28	513.47																								
-LREV- 44+70 RT	179	180		513.47	513.06			21.6																				
-LREV- 44+80 CL	180		513.94	512.00																								
-LREV- 44+80 LT	180	181		512.00	512.78				13.2																			
-LREV- 44+80 LT	180	182		512.00	501.05												58.8											
-Y3- 15+37 LT	182		501.94	501.05																								
SHEET TOTAL								116.4	13.2	51.6				61.2		103.2	156.0	12.0										
									74.4 (CL IV) (450)																			

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
-Y3- 11+44 RT								4.5																				
-Y3- 12+00 RT										1	1.09																	
-Y3- 12+00 RT								4.5																				
-Y3- 12+00 RT																												
-Y3- 12+01 LT										1													1					1
-Y3- 12+01 LT																												
-LREV- 41+84 RT										1																		
-LREV- 41+84 RT																												
-LREV- 42+05RT										1																		
-LREV- 42+05RT																												
-LREV- 42+05RT										1	0.12											1		1				
-LREV- 42+05RT																												
-LREV- 41+98 RT										1												1				1		
-LREV- 42+05 RT																												
-LREV- 42+65 RT										1	0.42											1				1		
-LREV- 42+65 RT																												
-LREV- 42+65 CL										1												1				1		
-Y3- 13+12 RT																												
-Y3- 13+29 LT										1													1					1
-Y3- 13+29 LT																												
-LREV- 43+03 RT																												
-LREV- 43+20 RT																												
-LREV- 43+25 RT									0.8																			
-LREV- 43+70 RT										1												1				1		
-LREV- 43+70 RT																												
-LREV- 43+80 CL										1												1				1		
-Y3- 14+18 LT										1												1						1
-Y3- 14+18 LT																												
-Y3- 13+92 RT						9.6		2.6																				
-Y3- 15+21 RT										1												1						
-Y3- 15+21 RT																												
-LREV- 44+70 RT										1												1						
-LREV- 44+70 RT																												
-LREV- 44+80 CL										1	0.44											1				1		
-LREV- 44+80 LT																												
-LREV- 44+80 LT																												
-Y3- 15+37 LT										1												1						1
SHEET TOTAL						9.6		11.6	0.8	16	2.07											11	2	1		6		4

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	SLUISE 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.	SIZE	REMARKS
-Y3- 11+44 RT																					"L" HDWL
-Y3- 12+00 RT	1			1																	
-Y3- 12+00 RT																		18.0			"L" HDWL (STD. 838.05 OR 838.15)
-Y3- 12+00 RT																					
-Y3- 12+01 LT																					
-Y3- 12+01 LT																			2	450	
-LREV- 41+84 RT					1																
-LREV- 41+84 RT																					
-LREV- 42+05RT					1																
-LREV- 42+05RT																			2	400	
-LREV- 42+05RT																					
-LREV- 42+05RT																					
-LREV- 41+98 RT																					
-LREV- 42+05 RT																					
-LREV- 42+65 RT																					
-LREV- 42+65 RT																					
-LREV- 42+65 CL																					
-Y3- 13+12 RT																		58.8			
-Y3- 13+29 LT																					
-Y3- 13+29 LT																			1	600	
-LREV- 43+03 RT													1								PERMANENT
-LREV- 43+20 RT																					METHOD "B" INSTALLATION
-LREV- 43+25 RT																			1	450	
-LREV- 43+70 RT																					
-LREV- 43+70 RT																					
-LREV- 43+80 CL																					
-Y3- 14+18 LT																					
-Y3- 14+18 LT																		13.2			
-Y3- 13+92 RT																		8.4			
-Y3- 15+21 RT									1												
-Y3- 15+21 RT																			2	400	
-LREV- 44+70 RT									1												
-LREV- 44+70 RT																					
-LREV- 44+80 CL																					
-LREV- 44+80 LT																					
-LREV- 44+80 LT																					
-Y3- 15+37 LT																					
SHEET TOTAL	1			1	2				2				1					99.0	4@	400	
																			3@	450	
																			1@	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

6/20/00

$$$$$$$$SYSTIME$$$$$$$$ $$$$$$$$DGN$$$$$$$$ $$$$$$$$USERNAME$$$$$$$$

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