COMPUTED BY: D.M.W. DATE: 9/2004
CHECKED BY: W.C.B. DATE: 12/2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2552C	3-1

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

STATION	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
Y4 33+70	RT	355		75	73.4	73									
Y4 33+70	RT	355	356		73.4	78.8						36.0			
Y4 30+87	RT	353	357		77.39							6.0			
Y4 31+31	LT	358		79.09	78.28	77.02									
Y4 31+31	LT	358	359		78.28				69.6						
Y4 32+01	LT	359		77.75	77.02										
Y4 DET 26+84	LT	360		89	88										
Y4 DET 26+84	LT	360	361		88	88.7									
Y4 DET 27+68	LT	362		88.8	88.24										
Y4 DET 27+68	LT	362	363		88.24	88.15									
Y 10+54	LT	–	–												
Y 11+39	CL	–	–												
Y 10+81	LT	–	–												
Y 11+46	LT	–	–												
Y1 11+41	LT	–	–												
Y3 17+65	LT	–	–												
Y3 17+90	LT	–	–												
Y4 6+06	L	–	–												
Y4 6+33	RT	–	–												
Y4 8+05	LT	–	–												
Y4 10+00	LT	–	–												
Y4 10+40	LT	–	–												
Y4 10+45	RT	–	–												
Y4 11+61	RT	–	–												
Y4 12+23	RT	–	–												
Y4 12+65	RT	–	–												
Y4 12+95	RT	–	–												
Y4 14+53	RT	–	–												
Y4 15+20	RT	–	–												
Y4 16+00	LT	–	–												
Y4 16+83	CL	–	–												
Y4 16+83	LT	–	–												
Y4 16+88	RT	–	–												
Y4 17+70	LT	–	–												
Y4 18+60	RT	–	–												
Y4 19+25	LT	–	–												
Y4 19+45	RT	–	–												
Y4 19+50	RT	–	–												
Y4 21+55	RT	–	–												
Y4 21+85	CL	–	–												
Y4 22+28	CL	–	–												
Y4 22+77	CL	–	–												
Y4 24+77	LT	–	–												
Y4 27+17	RT	–	–												
Y4 31+00	RT	–	–												
Y4 31+39	LT	–	–												
Y5 12+80	RT	–	–												
Y5 19+70	CL	–	–												
Y6 13+90	RT	–	–												
SHEET TOTAL									69.6			42.0			

STATION	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300	400	450	600	800	900	1000	1200	C.S. PLAIN PIPE 400	450	BITUMINOUS COATED C.S. PIPE TYPE A 400	450	600	800	900	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE
THICKNESS OR GAUGE	1.63	1.63	1.63	1.63	2.01	2.01	2.01	2.01	1.63	1.63	1.63	1.63	1.63	2.01	2.01			
Y4 33+70																		
Y4 33+70																		
Y4 30+87																		
Y4 31+31																		
Y4 31+31																		
Y4 32+01																		
Y4 DET 26+84																		
Y4 DET 26+84										22.8								
Y4 DET 27+68																		
Y4 DET 27+68									19.2									
Y 10+54																		
Y 11+39																		
Y 10+81																		
Y 11+46																		
Y1 11+41																		
Y3 17+65																		
Y3 17+90																		
Y4 6+06																		
Y4 6+33																		
Y4 8+05																		
Y4 10+00																		
Y4 10+40																		
Y4 10+45																		
Y4 11+61																		
Y4 12+23																		
Y4 12+65																		
Y4 12+95																		
Y4 14+53																		
Y4 15+20																		
Y4 16+00																		
Y4 16+83																		
Y4 16+83																		
Y4 16+88																		
Y4 17+70																		
Y4 18+60																		
Y4 19+25																		
Y4 19+45																		
Y4 19+50																		
Y4 21+55																		
Y4 21+85																		
Y4 22+28																		
Y4 22+77																		
Y4 24+77																		
Y4 27+17																		
Y4 31+00																		
Y4 31+39																		
Y5 12+80																		
Y5 19+70																		
Y6 13+90																		
SHEET TOTAL									19.2	22.8								

STATION	ENDWALLS STD. 838.01, 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)	METERS A 1.50 THRU 3.00	METERS B 3.00 AND ABOVE	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	B.A.D.I. (SEE SHEET 2-P)	T.B.D.I. STD. 840.36	T.B.D.I. FRAME WITH STEEL GRATE STD. 840.37	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 FLAT GRATES STD. 840.20	M.D.I. FRAME WITH SAG GRATE STD. 840.22	M.D.I. FRAME WITH TWO SAG GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH SAG GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO SAG GRATES STD. 840.24
Y4 33+70			1	0.1										1							1
Y4 33+70																					
Y4 30+87																					
Y4 31+31			1												1						1
Y4 31+31																					
Y4 32+01			1												1						1
Y4 DET 26+84			1													1			1		
Y4 DET 26+84																					
Y4 DET 27+68			1													1			1		
Y4 DET 27+68																					
Y 10+54																					
Y 11+39																					
Y 10+81																					
Y 11+46																					
Y1 11+41																					
Y3 17+65																					
Y3 17+90																					
Y4 6+06																					
Y4 6+33																					
Y4 8+05																					
Y4 10+00																					
Y4 10+40																					
Y4 10+45																					
Y4 11+61																					
Y4 12+23																					
Y4 12+65																					
Y4 12+95																					
Y4 14+53																					
Y4 15+20																					
Y4 16+00																					
Y4 16+83																					
Y4 16+83																					
Y4 16+88																					
Y4 17+70																					
Y4 18+60																					
Y4 19+25																					
Y4 19+45																					
Y4 19+50																					
Y4 21+55																					
Y4 21+85																					
Y4 22+28																					
Y4 22+77																					
Y4 24+77																					
Y4 27+17																					
Y4 31+00																					
Y4 31+39																					
Y5 12+80																					
Y5 19+70																					
Y6 13+90																					
SHEET TOTAL			5	0.1										1	2	2			2		3

FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B')

STATION	J.B. STD. 840.31 OR 840.32	C.B. STD. 840.01 OR 840.02	O.T.C.B. STD. 840.04 OR 840.05	M.H. STD. 840.51, 840.52 OR 840.53	M.H. FRAME AND COVER STD. 840.54	T.B.J.B. STD. 840.34	800 x 800 x 800mm PERF. C.S.P. TEE RISER 2.01mm THICK	CONVERT EXISTING D.I. OR C.B. TO J.B. (SEE SHEET 2-AC)	375mm BORE AND JACK SPIRAL WELDED STEEL (7mm THICK)	450mm BORE AND JACK SPIRAL WELDED STEEL (8mm THICK)	600mm BORE AND JACK SPIRAL WELDED STEEL (13mm THICK)	ADJUST EXISTING 2GI	MODIFIED CONCRETE FLUME (SEE SHEET 2-AA)	PREFORMED SCOUR HOLE (SEE REMARKS)	C.S. ELBOWS NO.	C.S. ELBOWS SIZE	CONC. COLLARS CL. "B" M3 STD. 840.72	CONC. & BRICK PIPE PLUG, M3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
Y4 33+70																				
Y4 33+70																				
Y4 30+87																				
Y4 31+31																				
Y4 31+31																				
Y4 32+01																				REMOVE EXIST. 2GI
Y4 DET 26+84																				
Y4 DET 26+84																				
Y4 DET 27+68																				
Y4 DET 27+68																				
Y 10+54																			6	
Y 11+39																			14.4	
Y 10+81																			6	
Y 11+46																			7.2	
Y1 11+41																			8.4	
Y3 17+65																			8.4	
Y3 17+90																			6	
Y4 6+06																			25.2	
Y4 6+33																			16.8	
Y4 8+05																		0.1		REMOVE 2 – 2GI
Y4 10+00																			18	
Y4 10+40																			6	
Y4 10+45																			7.2	
Y4 11+61																			14.4	
Y4 12+23																			7.2	
Y4 12+65																			12	
Y4 12+95																			9.6	
Y4 14+53																			6	
Y4 15+20																			7.2	
Y4 16+00																			8.4	
Y4 16+83																				REMOVE EXIST. 2GI
Y4 16+83																		0.32		REMOVE 2GI/4 PLUGS
Y4 16+88																			7.2	
Y4 17+70																			16.8	
Y4 18+60																			28.8	REMOVE EXIST. 2GI
Y4 19+25																			18	
Y4 19+45																			27.6	REMOVE EXIST. 2GI
Y4 19+50																			42	
Y4 21+55																			25.2	REMOVE EXIST. DI
Y4 21+85																			12	
Y4 22+28																			15.6	
Y4 22+77																			19.2	
Y4 24+77																			18	
Y4 27+17																				REMOVE EXIST. 2GI
Y4 31+00																			13.2	
Y4 31+39																			7.2	
Y5 12+80																			12	
Y5 19+70																			62.4	
Y6 13+90																			6	
SHEET TOTAL																		0.42	525.6	

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
O.T.C.B.	OPEN THROATED CATCH BASIN

6/20/00

17-MAR-2005 09:52
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dwheatley AT WSRAL-NEMO