COMPUTED BY: C. MOZINGO DATE: 03-28-01
CHECKED BY: R. SHILLINGLAW DATE: 04-10-01

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2610 A	3-B

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

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	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 (1.63)	400 (1.63)	450 (1.63)	600 (1.63)	800 (2.01)	900 (2.01)	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE
SHEET 4																								
-L- 12+10	RT	1		--	72.618	72.240				15.6														
-L- 12+48	RT	2	3	--	75.374	75.330			14.4															
-L- 12+48	CL	2		77.110	--	--																		
-L- 12+48	RT	3		77.190	--	--																		
-L- 12+48	RT	3	4	--	75.330	70.110											15.6							
-L- 12+48	RT	3	5	--	75.330	76.560			84.0															
-L- 13+32	RT	6	5	--	76.730	76.560			14.4															
-L- 13+32	CL	6		77.540	--	--																		
-L- 13+32	RT	5		77.370	--	--																		
SHEET 5																								
-L- 14+00	LT	7		--	76.000	73.900																	24.0	
-L- 14+80	RT	8	9	--	79.370	79.320			19.2															
-L- 14+80	CL	8		80.260	--	--																		
-L- 14+80	RT	9	9A	--	79.320	74.100												14.4						
-L- 14+80	RT	9		80.620	--	--																		
-L- 15+70	RT	10		--	73.649	73.280					7.2 (CLASS IV W/ METHOD B INSTALL)													
-L- 15+85	LT	11		--	74.930	74.367					27.6 (CLASS IV W/ METHOD B INSTALL)													
SHEET 6																								
-L- 17+75	LT	12		--	--	--																		
SHEET 7																								
-L- 19+60	LT	13		--	87.242	85.504				24.0														
-L- 20+00	RT	14	15	--	88.200	88.165			18.0															
-L- 20+00	CL	14		89.010	--	--																		
-L- 20+00	RT	15	16	--	88.140	85.410											9.6							
-L- 20+00	RT	15		89.210	--	--																		
-L- 20+00	RT	16		86.000	--	--																		
-L- 20+00	RT	16	17	--	85.360	83.780				43.2														
-L- 19+57	RT	17		85.400	--	--																		
-L- 19+57	RT	17	18	--	83.870	84.117				3.6														
-L- 21+50	LT	20		--	84.573	84.250				44.4														
-L- 21+00	LT	21	22	--	86.445	83.445			30.0															
-L- 21+00	LT	21		87.330	--	--																		
-L- 22+79	LT	26	27	--	82.970	83.530			24.0															
-L- 22+79	CL	26		84.300	--	--																		
-L- 22+79	LT	27		84.340	--	--																		
-Y3REV- 10+65	CL	19		--	85.750	85.481				19.2														
-Y3REV- 11+60	CL	22	23	--	83.370	83.270				28.8														
-Y3REV- 11+60	LT	22		85.000	--	--																		
-Y3REV- 11+60	LT	22	24	--	83.370	83.470				33.6														
SHEET TOTAL									204.0		34.8 (CL IV)						25.2							
										212.4								14.4					24.0	

STATION	LOCATION	FROM	TO	ENDWALLS STD. 838.01, STD. 838.11, STD. 838.80 (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	TYPE OF CONSTRUCTION PERMITTED BRICK	BLOCK	CONCRETE	PRECAST	C.B. STD 840.01 OR 840.02	FRAME, GRATES, AND HOOD STD 840.03 TYPE OF GRATE E	F	G	MDI TYPE "A" STD 840.17 OR 840.26	MDI TYPE "B" STD 840.18 OR 840.27	MDI TYPE "D" STD 840.19 OR 840.28	FRAME W/TWO GRATES, STD 840.22 (WIDE SLOT SAG)	FRAME W/TWO GRATES, STD 840.24 (NARROW SLOT SAG)	JB STD 840.31 OR 840.32	MODIFIED CONCRETE FLUME (EA)	CONCRETE CB STD. 840.04 OR 840.05	MH FRAME & COVER STD 840.54	DI STD 840.14 OR 840.15	FRAME W/TWO GRATES, STD 840.16 (DI GRATES)	CONVERT CB TO DI (EA)	FRAME W/TWO GRATES, STD 840.20 (WIDE SLOT FLAT)	CONVERT DI TO JB (EA)	BDO STD 850.10	CONVERT CB TO JB (EA)	ADJUST CB (EA)	TYPE "B" BIT. COAT. CS PIPE ELBOWS NO. & SIZE (EA)	CONCRETE COLLARS, CL "B" STD 840.72 (CM)	CONCRETE & BRICK PIPE PLUG STD 840.71 (CM)	FLOWABLE FILL MATERIAL (CM)	TRAFFIC BEARING JB STD 840.34 (EA)	PIPE REMOVAL (LM)	REMARKS
SHEET 4																																								
-L- 12+10	RT	1																																	0.33					
-L- 12+48	RT	2	3																																					
-L- 12+48	CL	2				1			X	X	X	X						1		1																				STR # 2
-L- 12+48	RT	3				1	0.36		X	X	X	X						1											1											STR # 3 STD. 820.04
-L- 12+48	RT	3	4																															2-400						
-L- 12+48	RT	3	5																																					
-L- 13+32	RT	6	5																																					
-L- 13+32	CL	6				1			X	X	X	X						1		1																				STR # 6
-L- 13+32	RT	5				1			X	X	X	X						1											1											STR # 5 STD.820.04
SHEET 5																																								
-L- 14+00	LT	7																																					21.6	
-L- 14+80	RT	8	9																																					
-L- 14+80	CL	8				1			X	X	X	X						1		1																				STR # 8
-L- 14+80	RT	9	9A																															2-450						
-L- 14+80	RT	9				1			X	X	X	X						1											1											STR # 9 STD. 820.04
-L- 15+70	RT	10																																	0.40					
-L- 15+85	LT	11																																	0.40					
SHEET 6																																								
-L- 17+75	LT	12																					1																	MODIFIED CONC. FLUME SEE 2-0
SHEET 7																																								
-L- 19+60	LT	13																																	0.33					
-L- 20+00	RT	14	15																																					
-L- 20+00	CL	14				1			X	X	X	X						1		1																				STR # 14
-L- 20+00	RT	15	16																															2-400						
-L- 20+00	RT	15				1			X	X	X	X						1											1											STR # 15 STD. 820.04
-L- 20+00	RT	16				1			X	X	X	X													1															STR # 16
-L- 20+00	RT	16	17																																					
-L- 19+57	RT	17				1	0.12		X	X	X	X															1	1												STR # 17
-L- 19+57	RT	17	18																																0.33					
-L- 21+50	LT	20																																	0.33				34.9	
-L- 21+00	LT	21	22																																					
-L- 21+00	LT	21				1			X	X	X	X						1		1																				STR # 21
-L- 22+79	LT	26	27																																					
-L- 22+79	CL	26																										1												STR # 26
-L- 22+79	LT	27				1			X	X	X	X						1		1																				STR # 27
-Y3REV- 10+65	CL	19																																						
-Y3REV- 11+60	CL	22	23																																					
-Y3REV- 11+60	LT	22				1	0.13		X	X	X	X															1	1												STR # 22
-Y3REV- 11+60	LT	22	24																																					
SHEET TOTAL							0.61											10		6				1	1		2		1						4-400						
						13																						2		4					2-450	2.12				56.5	

ABBREVIATIONS

E.D.	EXTRA DEPTH
H.D.	HEAVY DUTY
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