COMPUTED BY: Y. J. ANORD DATE: 1/29/02

CHECKED BY: R. A. SHILLINGLAW DATE: 1/29/02

RD187117

METRIC

PROJECT NO.	SHEET NO.
R-2610 B	3-E

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200mm & 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)	1000 (2.01)	1200 (2.01)	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE
SHEET 21																										
-L- 67+40	LT	58	61	152.34	151.50	151.21			22.8																	
-L- 67+40	LT	61	62	152.12	151.21	149.53				139.2																
-L- 68+80	LT	62		150.98	149.53	149.20					21.6															
-L- 68+80	LT	59	62	151.19	150.35	149.53			22.8																	
-L- 68+71	CL	59A																								
-L- 69+79	LT	62A																								
SHEET 22																										
-L- 70+31	LT	63	64	150.33	149.11	149.00	X		15.6																	
-L- 70+31	LT	64		151.00	149.00	145.65											10.8									
-L- 71+80	LT	65		150.84	150.26	149.94			25.2																	
-L- 73+35	LT	66	67	151.60	151.02	150.76			20.4																	
-L- 73+21	RT	66A																								
-L- 73+35	LT	67		151.60	150.76	150.00			36.0																	
-L- 74+04	LT	67B										28.8														
SHEET 23																										
-Y14- 10+30	CL	68A								26.4																
-L- 75+67	LT	68B								38.4																
-Y14- 10+42	CL																									
-Y14- 11+20	LT																									
-L- 75+61	RT	68	69	153.36	152.52	152.40	X		39.6																	
-L- 76+00	LT	69		153.24	152.40	151.00			32.4																	
-L- 77+00	LT	71	70	153.47	152.89	152.61			21.6																	
-L- 77+00	LT	70																20.4								
-L- 76+82	LT	70B											37.2													
-DRV- 10+20	CL	70C																						12.0		
SHEET 24																										
-L- 77+40	CL	72	71	153.62	153.04	152.89	x		39.6																	
-L- 78+70	LT	72A																						6.0		
-L- 79+00	LT	73		154.41	153.83	153.50			25.2																	
-L- 79+20	LT	74		155.40	153.50	151.50											9.6									
-L- 79+38	LT	74A													19.2											
-L- 80+40	LT	75	76	155.09	154.41	154.20			20.4																	
-L- 80+40	LT	76		155.04	154.20	153.80			20.4																	
SHEET 25																										
-L- 81+15	LT	76A												24.0												
-L- 81+25	LT	77		155.51	154.67	153.51			26.4																	
-L- 82+05	LT	77A											38.4													
-L- 82+60	LT	78		156.71	155.87	155.00			25.2																	
-L- 82+63	LT	78-A																								
-L- 82+63	LT	78-B																								
-L- 82+63	LT	78-C																						19.2		
-L- 83+50	LT	78-D																						13.2		
SHEET TOTALS									393.6	204.0	21.6	28.8	75.6	24.0	19.2		20.4	20.4						50.4		

STATION	STRUCTURE NO. FROM	ENDWALLS STD. 838.01 STD. 838.11 STD. 838.80 (UNLESS NOTED OTHERWIS) CU. METERS R.C.P.	C.S.P.	QUANITIES FOR DRAINAGE STRUCTURES PER EACH (0 THRU 1.50)	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') METERS A 1.5 THRU 3.00	B 3.00 AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND 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 GRATE STD. 840.20	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32 (EA)	M.D.I. GRATE & FRAME STD. 840.22	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	MODIFIED CON. FLUME (EA)	D.I. CONC. APRON (EA)	BORE & JACK 600mm WELDED STL PIPE (LM)	PIPE CLEAN OUT (each)	BORE & JACK 750mm WELDED STL PIPE (LM)	BERM DRAIN OUTLET STD 850.10	JB, TRAFFIC BEARING STD. 840.34	FLOWABLE FILL (M3)	RC FES (EA)	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" M^3 STD. 840.72	CONC. & BRICK PIPE PLUG, M^3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
SHEET 21																																							
-L- 67+40	58			1										1			1																						STR # 58
-L- 67+40	61			1										1			1																						STR # 61
-L- 68+80	62			1									1				1																						STR # 62
-L- 68+80	59			1										1			1																						STR # 59
-L- 68+71	59A																																					8.10	
-L- 69+79	62A			1																1																			STR # 62A
SHEET 22																																							
-L- 70+31	63			1									1				2																						STR # 63 4-GI
-L- 70+31	64			1	0.5									1		1																			2-400				STR # 64 STD 820.04
-L- 71+80	65			1											1		1																						STR # 65
-L- 73+35	66			1											1		1																						STR # 66
-L- 73+21	66A																																					8.2	
-L- 73+35	67			1										1			1																						STR # 67
-L- 74+04	67B																																			0.48			
SHEET 23																																							
-Y14- 10+30	68A																																						
-L- 75+67	68B																																			0.33			
-Y14- 10+42																																	3.0						375mm
-Y14- 11+20																																						7.2	
-L- 75+61	68			1										1			1																						STR # 68
-L- 76+00	69			1										1			1																						STR # 69
-L- 77+00	71			1											1		1																						STR # 71
-L- 77+00	70			1										1			1																						STR # 70
-L- 76+82	70B			1																												1							STR # 70B
-DRV- 10+20	70C																																						
SHEET 24																																							
-L- 77+40	72			1											1		1																						STR # 72
-L- 78+70	72A																																						
-L- 79+00	73			1											1		1																						STR # 73
-L- 79+20	74			1	0.4									1		1																			2-400				STR # 74 STD 820.04
-L- 79+38	74A																																			0.74			
-L- 80+40	75			1											1		1																						STR # 75
-L- 80+40	76			1										1			1																						STR # 76
SHEET 25																																							
-L- 81+15	76A																																			0.65			
-L- 81+25	77			1										1			1																						STR # 77
-L- 82+05	77A																																			0.56			
-L- 82+60	78			1										1			1																						STR # 78
-L- 82+63	78-A																																					10.76	
-L- 82+63	78-B																																					13.21	
-L- 82+63	78-C																																						
-L- 83+50	78-D																																						
SHEET TOTALS				22	0.9	0							2	12	6	2	19			1												1	3.0		4-400	2.76		47.47	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP
D.I.	INLET
M.D.I.	DROP INLET
M.D.I.(N.S.)	MEDIAN DROP INLET
	MEDIAN DROP INLET
	(NARROW SLOT)
J.B.	
M.H.	JUNCTION BOX
T.B.D.I.	MANHOLE
	TRAFFIC BEARING
T.B.J.B.	DROP INLET
	TRAFFIC BEARING
	JUNCTION BOX