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. R-2552C | SHEET NO. 3-A

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	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	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)	FOR DRAINAGE *TOTAL M. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') 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	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
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																																												
L2LT 108+74	LT	1A																																																																1							
L2LT 108+51	RT	1		61.48	59.6																															1	0.38										1					1																					connects to existing system
L2LT 108+51	RT	1	2		59.6	53.5							49.2																																																													
L2LT 109+00	RT	2		55.2	52.55																															1																			1				1																
L2LT 109+00	RT	2	3		53.55	53.5							4.8																																																													
L2RT 108+51	LT	4	5		–	62.28				13.2																																																																connects to existing system
L2RT 108+65	RT	5		63.2	62.13																															1												1				1																					
L2RT 108+65	RT	5	6		62.13	61.82					30.0																																																														
L2RT 108+77.5	RT	6		63.42	61.82																															1	0.1										1					1																					
L2RT 108+77.5	RT	6	7		62.17	65.76																				14.4																																											1	400				
L2RT 108+77.5	RT	6	8		61.82	61.15						36.0																																																												
L2RT 109+15	RT	8		63.5	61.15																															1	0.85										1					1																					
L2RT 109+15	RT	8	9		61.15	54.8																							51.6						1.5																																								
L2RT 108+77.5	LT	10		63.93	63.12																															1												1		1																									
L2RT 108+77.5	LT	10	11		63.12	62.85			75.6																																																																
L2RT 109+54	LT	11		64.62	62.85																															1	0.27											1		1																									
L2RT 109+54	LT	11	12		62.85	56.0																				16.8																																											2	400				
L2RT 109+54	LT	12		57.1	56																															1																			1				1																
L2RT 109+54	LT	12	13		56	54.5			26.4																																																																
L2RT 109+79	LT	13			–	–																																																																1						(SEE SHEET 4)
L2LT 109+95	LT	14			–	–																																																																1						(SEE SHEET 4)
L2LT 109+95	LT	14	15		54.4	63.11																				44.4																																											2	400				
L2LT 110+37	LT	15		63.92	63.11																															1												1		1																									
L2LT 111+16	LT	16		65.19	64.28																															1												1				1																					
L2LT 111+16	LT	16	17		64.28				20.4																																																																	
L2LT 111+15	RT	17		66.1	64.25																															1	0.35																		1				1																
L2LT 111+15	RT	17	18		64.25	57.8																				28.8																																											2	400				
L2RT 111+12	LT	19	20		57.84	67.63																				38.4																																											2	400				
L2RT 111+12	LT	20		68.44	67.63																															1									1	1																													
L2LT 112+70	LT	21		70.95	70.14																															1												1				1																					
L2LT 112+70	LT	21	22		70.14	70			25.2																																																																	
L2LT 112+70	RT	22		71.11	70																															1												1				1																					
L2LT 112+70	RT	22	23		70	65																				28.8																																											2	400				
L2RT 112+45	LT	24	25		65	70.56																				31.2																																											2	400				
L2RT 112+75	LT	25		71.2	70.56																															1																					1																			
L2LT 114+00	LT	26		75.95	75.14	75																														1												1				1																					
L2LT 114+00	LT	26	27		75.14				25.2																																																																	
L2LT 114+00	RT	27		76.11	75																															1												1				1																					
L2LT 114+00	RT	27	28		75	–			18.0																																																																	
L2RT 113+93	LT	29	30		74.8	72.8					40.8																																																														
L2RT 113+95	LT	31	32		–	76.4			26.4																																																																
L2RT 114+20	LT	32		77.21	76.4																															1												1				1																					
L2LT 114+82	LT	33	34		85.4	78.29																				21.6																																											1	400				
L2LT 114+82	LT	34		79.1	78.29																															1												1				1																					
L2LT 114+82	LT	34	35		78.29	77.75			26.4																																																																	
L2LT 114+72	RT	35		78.83	77.75																															1												1				1																					
L2LT 114+72	RT	35	36		77.75	77.6				28.8																																																															
L2RT 114+71	LT	36		78.8	77.6																															1												1				1																					
L2RT 114+71	LT	36	37		77.6	77.3					27.6																																																														
L2RT 114+71	RT	37		79.13	77.3																															1	0.33										1					1																					
L2RT 114+71	RT	37	38		77.3	75					27.6																																																															
SHEET TOTAL									243.6	42.0	126.0	36.0	54.0													224.4			51.6						1.5	22	2.28								1	1	4	13		3		14			3		1		3								1	2	14	400				

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

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