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-G

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

STATION	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- 15+37 LT	182	183		501.05	501.90			14.4																				
-Y3- 15+37 LT	182	184		501.05	498.72				27.6																			
-Y3- 15+56 RT	185	186		499.48	502.88							62.4																
-Y3- 16+20 RT	186		504.00	502.88																								
-Y3- 16+20 RT	186	187		502.88	507.00												30.0											
-Y3- 16+20 RT	186	188		502.88	506.91											10.8												
-Y3- 16+20 RT	188		507.82	506.91																								
-Y3- 16+20 RT	186	189		502.88	505.85							33.6																
-LREV- 46+01 RT	189		507.60	505.85																								
-LREV- 46+01 RT	189	190		505.85	515.69											24.0												
-LREV- 45+99 RT	190		517.08	515.69																								
-LREV- 45+99 RT	190	191		515.69	515.74			18.0																				
-LREV- 45+98 CL	191		516.55	515.74																								
-LREV- 46+02 CL	189	194		505.85	506.80						78.0 (CL IV) (750)																	
-LREV- 45+81 LT	192	193		512.50	506.80												22.8											
-LREV- 46+01 RT	189	195		505.85	509.70						78.0																	
-LREV- 46+80 RT	195		511.30	509.70																								
-LREV- 46+80 RT	195	196		509.70	518.11											16.8												
-LREV- 46+80 RT	196		519.02	518.11																								
-LREV- 46+80 RT	195	203		509.70	511.21						60.0																	
-Y3- 16+98 RT	197		513.80	512.29																								
-Y3- 16+98 RT	197	198		512.29	510.20											7.2												
-LREV- 47+00 LT	199	200		517.63	513.66												18.0											
-LREV- 47+17 LT	200		514.20	513.66																								
-LREV- 47+17 LT	200	201		513.66	511.90				24.0																			
-LREV- 47+17 LT	202	203		511.90	511.21						68.4 (CL IV) (750)																	
-LREV- 47+40 RT	203		513.50	511.21																								
-LREV- 47+40 RT	203	204		511.21	519.54																							
-LREV- 47+40 RT	203	205		511.21	515.00				56.4																			
-LREV- 47+40 RT	203	206		511.21	519.31				39.6																			
-LREV- 47+77 RT	206		520.20	519.31																								
-LREV- 47+77 RT	206	207		519.31	519.58			24.0																				
-LREV- 47+85 CL	207		520.58	519.58																								
-Y3- 18+16 LT	208	209		519.50	519.69			12.0																				
-Y3- 18+28 LT	209		520.50	519.69																								
-Y3- 18+28 RT	209	210		519.69	519.79			20.4																				
SHEET TOTAL								88.88	147.6		138.0	96.0				58.8	70.8											
											146.4 (CL IV) (750)																	

STATION	FROM	TO	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- 15+37 LT	182	183																												
-Y3- 15+37 LT	182	184																												
-Y3- 15+56 RT	185	186																												
-Y3- 16+20 RT	186											1																		
-Y3- 16+20 RT	186	187									0.9																			
-Y3- 16+20 RT	186	188																												
-Y3- 16+20 RT	188											1												1						
-Y3- 16+20 RT	186	189																												
-LREV- 46+01 RT	189											1	0.25										1							1
-LREV- 46+01 RT	189	190																												
-LREV- 45+99 RT	190											1												1						
-LREV- 45+99 RT	190	191																												
-LREV- 45+98 CL	191											1												1				1		
-LREV- 46+02 CL	189	194																												
-LREV- 45+81 LT	192	193									1.7																			
-LREV- 46+01 RT	189	195																												
-LREV- 46+80 RT	195											1	0.10										1					1		
-LREV- 46+80 RT	195	196																												
-LREV- 46+80 RT	196											1												1						
-LREV- 46+80 RT	195	203																												
-Y3- 16+98 RT	197											1	0.01											1						
-Y3- 16+98 RT	197	198																												
-LREV- 47+00 LT	199	200									0.9																			
-LREV- 47+17 LT	200											1																		
-LREV- 47+17 LT	200	201																												
-LREV- 47+17 LT	202	203																												
-LREV- 47+40 RT	203											1	0.79										1					1		
-LREV- 47+40 RT	203	204										1																		
-LREV- 47+40 RT	203	205																												
-LREV- 47+40 RT	203	206																												
-LREV- 47+77 RT	206											1												1				1		
-LREV- 47+77 RT	206	207																												
-LREV- 47+85 CL	207											1												1				1		
-Y3- 18+16 LT	208	209																												
-Y3- 18+28 LT	209											1												1						1
-Y3- 18+28 RT	209	210																												
SHEET TOTAL											3.5	14	1.15										3	8				5		2

STATION	FROM	TO	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- 15+37 LT	182	183																					
-Y3- 15+37 LT	182	184																					
-Y3- 15+56 RT	185	186																					
-Y3- 16+20 RT	186						1																
-Y3- 16+20 RT	186	187																					"L" HEADWALL (STD. 838.05 OR 838.15)
-Y3- 16+20 RT	186	188																			2	400	
-Y3- 16+20 RT	188										1												
-Y3- 16+20 RT	186	189																					
-LREV- 46+01 RT	189																						
-LREV- 46+01 RT	189	190																		16.8	2	400	
-LREV- 45+99 RT	190										1												
-LREV- 45+99 RT	190	191																					
-LREV- 45+98 CL	191																						
-LREV- 46+02 CL	189	194																					METHOD "B" INSTALLATION
-LREV- 45+81 LT	192	193																			1	450	"L" HEADWALL (STD. 838.05 OR 838.15)
-LREV- 46+01 RT	189	195																					
-LREV- 46+80 RT	195																						
-LREV- 46+80 RT	195	196																			2	400	
-LREV- 46+80 RT	196										1												
-LREV- 46+80 RT	195	203																					
-Y3- 16+98 RT	197										1												
-Y3- 16+98 RT	197	198																			2	400	
-LREV- 47+00 LT	199	200																					"L" HEADWALL (STD. 838.05 OR 838.15)
-LREV- 47+17 LT	200						1																SIDES OPEN
-LREV- 47+17 LT	200	201																					
-LREV- 47+17 LT	202	203																		6.0			METHOD "B" INSTALLATION
-LREV- 47+40 RT	203																						
-LREV- 47+40 RT	203	204						1	37.2	2.4													
-LREV- 47+40 RT	203	205																					
-LREV- 47+40 RT	203	206																					
-LREV- 47+77 RT	206																						
-LREV- 47+77 RT	206	207																					
-LREV- 47+85 CL	207																						
-Y3- 18+16 LT	208	209																					
-Y3- 18+28 LT	209																						
-Y3- 18+28 RT	209	210																					
SHEET TOTAL							2	1	37.2	2.4	4									22.8	8@	400	
																					1@	450	

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

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

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