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-D

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
L2 137+60	RT	118	119		86.1	85.54			24.0						
L2 137+63	RT	119		87.19	85.54										
L2 137+63	RT	119	120		85.54	85.2			4.8						
L2 137+64	RT	121	122		85.2	85.7									63.6
FLY 4+70	RT	123	124		86.1	86.25								28.8	
RAMP B 4+90	LT	124		88.21	86.25										
RAMP B 4+90	LT	124	125		86.25	86.39								28.8	
RAMP B 4+60	LT	125		88.3	86.39										
RAMP B 4+60	LT	125	126		86.39	86.7					18				
RAMP B 4+60	RT	126		87.77	86.7										
RAMP B 4+60	RT	126	127		86.7	88.2									
RAMP B 4+60	LT	125	130		86.39	87.06							148.8		
RAMP B 3+10	LT	130		88.81	87.06										
FLY 6+61	LT	128		93.92	93.11										
FLY 6+61	LT	128	129		93.11	87.89									
FLY 6+59	LT	129		88.7	87.89										
FLY 6+59	LT	129	130		87.89	87.06			10.8						
RAMP B 3+10	LT	130	131		87.06	87.34							21.6		
RAMP B 3+10	RT	131		88.71	87.34										
RAMP B 3+10	RT	131	132		87.34	88.8									
L2 138+85	RT	133	134		87.15	87.25				13.2					
L2 138+98	RT	134		88.74	87.25										
L2 138+98	RT	134	135		87.25	87.96			31.2						
L2 139+10	CL	135		88.77	87.96										
L2 139+10	CL	135	136		87.96	88.73			27.6						
L2 139+20	LT	136		89.54	88.73										
LOOP B 1+38	LT	137	138		89.9	87.92									
LOOP B 1+38	LT	138		88.73	87.92										
LOOP B 1+38	LT	138	139		87.92	87.79			20.4						
LOOP B 1+18	LT	139		88.68	87.79										
LOOP B 1+18	LT	139	140		87.79	87.6				24.0					
LOOP B 0+96	LT	140		88.74	87.6										
LOOP B 0+96	LT	140	141		87.6	87.18				51.6					
LOOP B 1+18	LT	139	142		87.79	87.98				14.4					
LOOP B 1+18	RT	142		89.02	87.98										
LOOP B 1+18	RT	142	143		87.98	88.13			16.8						
LOOP B 1+38	RT	143		89.07	88.13										
FLY 7+28	RT	144	145		89.71	94.82									
FLY 7+28	RT	145		95.63	94.82										
FLY 8+10	RT	146	147		90.5	95.92									
FLY 8+10	RT	147		96.73	95.92										
FLY 8+92	RT	148	149		89.4	96.72									
FLY 8+92	RT	149		97.53	96.72										
Y4 17+50	RT	150	151		86.9	86.4						51.6			
LOOP B 3+62	RT	152	153		86.4	88.77									
LOOP B 3+54	LT	153		89.58	88.77										
Y4 16+80	RT	154	155		87.14	87.25					20.4				
Y4 16+62	RT	155		88.8	87.25										
LOOP B 9+05	RT	155	156		87.25	89.1									
SHEET TOTAL									135.6	103.2	38.4	51.6	170.4	57.6	63.6

STATION	FROM	TO	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)	C.S. PLAIN PIPE 400 (1.63)	450 (1.63)	BITUMINOUS COATED C.S. PIPE TYPE A 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	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) R.C.P. (CM)	C.S.P. (CM)
L2 137+60	118	119																				
L2 137+63	119																					
L2 137+63	119	120																				
L2 137+64	121	122																			4.6	
FLY 4+70	123	124																				
RAMP B 4+90	124																					
RAMP B 4+90	124	125																				
RAMP B 4+60	125																					
RAMP B 4+60	125	126																				
RAMP B 4+60	126																					
RAMP B 4+60	126	127													8.4							
RAMP B 4+60	125	130																				
RAMP B 3+10	130																					
FLY 6+61	128																					
FLY 6+61	128	129											20.4									
FLY 6+59	129																					
FLY 6+59	129	130																				
RAMP B 3+10	130	131																				
RAMP B 3+10	131																					
RAMP B 3+10	131	132															7.2					
L2 138+85	133	134																				
L2 138+98	134																					
L2 138+98	134	135																				
L2 139+10	135																					
L2 139+10	135	136																				
L2 139+20	136																					
LOOP B 1+38	137	138											12.0									
LOOP B 1+38	138																					
LOOP B 1+38	138	139																				
LOOP B 1+18	139																					
LOOP B 1+18	139	140																				
LOOP B 0+96	140																					
LOOP B 0+96	140	141																				
LOOP B 1+18	139	142																				
LOOP B 1+18	142																					
LOOP B 1+18	142	143																				
LOOP B 1+38	143																					
FLY 7+28	144	145											15.6									
FLY 7+28	145																					
FLY 8+10	146	147											15.6									
FLY 8+10	147																					
FLY 8+92	148	149											20.4									
FLY 8+92	149																					
Y4 17+50	150	151																				
LOOP B 3+62	152	153											19.2									
LOOP B 3+54	153																					
Y4 16+80	154	155																				
Y4 16+62	155																					
LOOP B 9+05	155	156											4.8									
SHEET TOTAL													108.0		8.4		7.2				4.6	

STATION	FROM	TO	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	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
L2 137+60	118	119																			
L2 137+63	119		1	0.15											1		1				
L2 137+63	119	120																			
L2 137+64	121	122																			
FLY 4+70	123	124																			
RAMP B 4+90	124		1	0.46										1					1		
RAMP B 4+90	124	125																			
RAMP B 4+60	125		1	0.41										1					1		
RAMP B 4+60	125	126																			
RAMP B 4+60	126		1												1				1		
RAMP B 4+60	126	127																			
RAMP B 4+60	125	130																			
RAMP B 3+10	130		1	0.25										1					1		
FLY 6+61	128		1												1		1				
FLY 6+61	128	129																			
FLY 6+59	129		1												1				1		
FLY 6+59	129	130																			
RAMP B 3+10	130	131																			
RAMP B 3+10	131		1												1				1		
RAMP B 3+10	131	132																			
L2 138+85	133	134																			
L2 138+98	134		1												1				1		
L2 138+98	134	135																			
L2 139+10	135		1												1				1		
L2 139+10	135	136																			
L2 139+20	136		1												1				1		
LOOP B 1+38	137	138																			
LOOP B 1+38	138		1												1				1		
LOOP B 1+38	138	139																			
LOOP B 1+18	139		1												1				1		
LOOP B 1+18	139	140																			
LOOP B 0+96	140		1												1				1		
LOOP B 0+96	140	141																			
LOOP B 1+18	139	142																			
LOOP B 1+18	142		1			1															
LOOP B 1+18	142	143																			
LOOP B 1+38	143		1					1													
FLY 7+28	144	145																			
FLY 7+28	145		1												1		1				
FLY 8+10	146	147																			
FLY 8+10	147		1												1		1				
FLY 8+92	148	149																			
FLY 8+92	149		1								1						1				
Y4 17+50	150	151																			
LOOP B 3+62	152	153																			
LOOP B 3+54	153		1				1														
Y4 16+80	154	155																			
Y4 16+62	155		1	0.05										1					1		
LOOP B 9+05	155	156																			
SHEET TOTAL			21	1.32		1	1	1			1			4	13		5		13		

STATION	FROM	TO	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.	SIZE	CONC. COLLARS CL. "B" M3 STD. 840.72	CONC. & BRICK PIPE PLUG, M3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
L2 137+60	118	119																				
L2 137+63	119																					
L2 137+63	119	120																				
L2 137+64	121	122																				
FLY 4+70	123	124																				
RAMP B 4+90	124																					
RAMP B 4+90	124	125																				
RAMP B 4+60	125																					
RAMP B 4+60	125	126																				
RAMP B 4+60	126																					
RAMP B 4+60	126	127															1	600				
RAMP B 4+60	125	130																				
RAMP B 3+10	130																					
FLY 6+61	128																					
FLY 6+61	128	129															2	400				
FLY 6+59	129																					
FLY 6+59	129	130																				
RAMP B 3+10	130	131																				
RAMP B 3+10	131																					
RAMP B 3+10	131	132															1	900				
L2 138+85	133	134																				
L2 138+98	134																					
L2 138+98	134	135																				
L2 139+10	135																					
L2 139+10	135	136																				
L2 139+20	136																					
LOOP B 1+38	137	138															1	400				
LOOP B 1+38	138																					
LOOP B 1+38	138	139																				
LOOP B 1+18	139																					
LOOP B 1+18	139	140																				
LOOP B 0+96	140																					
LOOP B 0+96	140	141																				
LOOP B 1+18	139	142																				
LOOP B 1+18	142			1																		
LOOP B 1+18	142	143																				
LOOP B 1+38	143			1																		
FLY 7+28	144	145															2	400				
FLY 7+28	145																					
FLY 8+10	146	147															2	400				
FLY 8+10	147																					
FLY 8+92	148	149															2	400				
FLY 8+92	149																					
Y4 17+50	150	151																				
LOOP B 3+62	152	153																				
LOOP B 3+54	153			1																		
Y4 16+80	154	155																				
Y4 16+62	155																					
LOOP B 9+05	155	156															1	400				
SHEET TOTAL				3													10	400				
																	1	600				
																	1	900				

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 09:51
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dwheatley AT WSRAL-NEMO