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.	SHEET NO.
R-2552C	3-F

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
Y5 18+92	RT	207	208		81.8	81.6						31.2			
FLY 13+60	RT	209	210		83.62	89.73									
FLY 13+60	RT	210		90.54	89.73										
FLY 13+92	RT	211	212		83.05	81.33				57.6 (CL IV)					
RAMP A 5+40	LT	212			81.33										
RAMP A 5+40	LT	212	213		81.33	81.20				40.8					
Y5 19+96	RT	214	215		81.20	81.10					19.2				
Y5 20+07	LT	216	217		–	–						6.0			
FLY 14+25	RT	218	219		83.40	89.07									
FLY 14+25	RT	219		89.88	89.07										
Y5 20+57	LT	220	221		–	–									
RAMP C 3+61	RT	222	223	78.9	79.12	78.96									26.4
RAMP C 5+04	RT	224	225		79.53	78.09					44.4				
LOOP C 2+87	RT	225		79.24	78.09										
LOOP C 2+87	RT	225	226		78.09	78.01					13.2				
LOOP C 2+87	LT	226		78.47	78.01										
LOOP C 2+87	LT	226	227		78.01	77.93					10.8				
LOOP C 1+24	LT	228			77.53										
LOOP C 1+24	LT	228	230	78.39	77.53	77.00			12.0						
LOOP C 1+19	RT	229	230		77.75	77.00						21.6			
LOOP C 1+09	LT	230			77.00										
LOOP C 1+09	LT	230	231	80.04	77.00	76.90						10.8			
L2 147+20	RT	232	233		77.75	76.90							34.8		
L2 146+60	CL	234		79.54	79.23										
L2 146+60	CL	234	235		79.23	78.73			40.8						
L2 147+02	CL	235		79.22	78.73										
L2 147+02	CL	235	236		78.73	77.06			44.4						
L2 147+48	CL	236			77.06										
Y4 22+66	RT	239	240		78.46	86.98									
Y4 22+66	RT	240		87.79	86.98										
FLY 15+80	LT	241		89.19	88.38										
FLY 15+80	LT	241	242	81.24	88.38	78.79									
RAMP A 4+32	LT	243	244		79.90	80.20			18.0						
RAMP A 4+50	LT	244		81.30	80.20										
RAMP A 4+50	LT	244	245		80.20	80.42			21.6						
RAMP A 4+50	RT	245		81.26	80.42										
Y4 23+40	CL	246		87.93	87.12										
Y4 23+40	CL	246	247		87.12	87.00			28.8						
FLY 16+67	LT	247		87.93	87.00										
FLY 16+67	LT	247	248		87.00	77.74									
LOOP C 0+53	LT	249	250		76.80	77.24						43.2			
L2 148+09	RT	250		79.22	77.24										
L2 148+09	RT	250	251		77.24	77.25						1.2			
L2 148+09	LT	251		79.22	77.25										
L2 148+09	LT	251	252		77.25	77.40						42.0			
SHEET TOTAL									165.6	40.8	87.6	156.0	34.8		26.4

STATION	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	B 3.00 AND ABOVE	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G
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											
Y5 18+92																										
FLY 13+60											16.8															
FLY 13+60																					1					
FLY 13+92																										
RAMP A 5+40																					1					
RAMP A 5+40																										
Y5 19+96																										
Y5 20+07																										
FLY 14+25											16.8															
FLY 14+25																					1					
Y5 20+57																8.4										
RAMP C 3+61																			4.6							
RAMP C 5+04																										
LOOP C 2+87																					1					
LOOP C 2+87																										
LOOP C 2+87																					1				1	
LOOP C 2+87																										
LOOP C 1+24																					1					1
LOOP C 1+24																										
LOOP C 1+19																			3.4							
LOOP C 1+09																					1			1		
LOOP C 1+09																										
L2 147+20																										
L2 146+60																					1					
L2 146+60																										
L2 147+02																					1					
L2 147+02																										
L2 147+48																					1					
Y4 22+66											24.0															
Y4 22+66																					1					
FLY 15+80																					1					
FLY 15+80											24.0															
RAMP A 4+32																										
RAMP A 4+50																					1					
RAMP A 4+50																										
RAMP A 4+50																					1					
Y4 23+40																					1					
Y4 23+40																										
FLY 16+67																					1					
FLY 16+67											30.0															
LOOP C 0+53																										
L2 148+09																					1	1.48				
L2 148+09																										
L2 148+09																					1	0.47				
L2 148+09																										
SHEET TOTAL											111.6					8.4			8.0		18	1.95		1	1	1

STATION	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.	SIZE	CONC. COLLARS CL. "B" M3 STD. 840.72	CONC. & BRICK PIPE PLUG, M3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
Y5 18+92																																	
FLY 13+60																												2	400				
FLY 13+60							1		1																								
FLY 13+92																																	METHOD "B" INSTALLATION*
RAMP A 5+40								1			1																						
RAMP A 5+40																																	
Y5 19+96																																	
Y5 20+07																																6.0	
FLY 14+25																												2	400				
FLY 14+25							1		1																								
Y5 20+57																																	
RAMP C 3+61																																	
RAMP C 5+04																																	
LOOP C 2+87								1			1																						
LOOP C 2+87																																	
LOOP C 2+87															1																		
LOOP C 2+87																																	
LOOP C 1+24															1																		
LOOP C 1+24																																	
LOOP C 1+19																																	
LOOP C 1+09															1																		
LOOP C 1+09																																	
L2 147+20																																	
L2 146+60							1				1																						
L2 146+60																																	
L2 147+02							1				1																						
L2 147+02																																	
L2 147+48						1					1																				0.20	33.6	REM. EX. 2GI & PLUG (2) 450 RCP @4 PLACES
Y4 22+66																												2	400				
Y4 22+66							1		1																							19.2	
FLY 15+80							1		1																								
FLY 15+80																												2	400				
RAMP A 4+32																																	
RAMP A 4+50							1				1																						
RAMP A 4+50																																	
RAMP A 4+50							1				1																						
Y4 23+40							1				1																						
Y4 23+40																																	
FLY 16+67			1						1																								
FLY 16+67																												2	400				
LOOP C 0+53																																	
L2 148+09							1		1																								
L2 148+09																																	
L2 148+09							1		1																								
L2 148+09																																	
SHEET TOTAL			1			1	11	2	7		8				3													10	400		0.2	58.8	

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