6/20/00

COMPUTED BY: S.P. ASHLEY DATE: 06/06/02
CHECKED BY: JRH DATE: 11/10/03

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-0513A	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) SIZE	300	375	450	600	750	900	1050	1200	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) SIZE	300	400	450	600		800		900		CLASS IV R.C. PIPE SIZE	450	750
								THICKNESS OR GAUGE									1.63	1.63	1.63	1.63		2.01		2.01			
–L–																												
76+40	CL.	149		51.31																								
76+40	LT.	149	150		49.80	49.01					31.2																	
78+51	RT.	151	152		48.30	48.27								22.8														
78+48	RT.	152		49.90																								
78+44	RT.	152	153		48.27	48.23								30														
78+40	CL.	153		50.70																								
78+36	LT.	153	154		48.23	48.20								32.4														
80+60	CL.	155		51.31																								
80+60	RT.	155	156		50.50	49.57				30																		
80+60	RT.	156		50.45																								
80+60	RT.	156	157		49.57	49.46	X				22.8																	
83+20	CL.	157A			48.70	48.70	X						91.2															
84+80	CL.	157B			48.48	48.48	X						88.8															
85+60	CL.	158		51.25																								
85+60	RT.	158	159		50.44	48.97				31.2																		
85+60	RT.	159		49.86																								
85+60	RT.	159	160		48.97	48.70					19.2																	
–Y1–																												
11+25	RT.	161			54.02	54.03						6																
11+25	LT.	162			54.08	54.09						4.4																
12+12	RT.	163	164		53.88	53.82								10.8														
12+15	RT.	164		57.2																								
12+15	LT.	165			53.71	53.66								8.4														
–SR2–																												
10+08	CL.	165A			54.40	54.35					42																	
–Y2–																												
11+10	LT.	166		DRIVEWAY PIPE						6																		
11+00	RT.	167		DRIVEWAY PIPE								6																
11+40	LT.	168		DRIVEWAY PIPE						4.8																		
12+31	RT.	169		DRIVEWAY PIPE								13.4																
11+90	LT.	170		DRIVEWAY PIPE						4.8																		
12+30	LT.	171		DRIVEWAY PIPE							7.2																	
12+61	LT.	172		DRIVEWAY PIPE							8.4																	
13+20	LT.	173		DRIVEWAY PIPE							32.4																	
14+22	CL.	174		56.60																								
14+22	LT.	174	175		55.59	49.40											25.2											
–SR4–																												
10+22	CL.	176			49.66	49.62					19.2																	
–TEMPY1–																												
13+40	CL.	178			55.40	55.20					18.0																	
13+85	CL.	179			52.20	52.00					26.4																	
–DW5–																												
10+08	CL.	180		DRIVEWAY PIPE								6.0																
SHEET TOTAL										76.8	226.8	35.8	180	104.4			25.2											
PROJECT TOTALS: R-0513A										1096.8	1059.2	383.80	350.2	355.2			218.4	60			62.4	87.6						
PROJECT TOTALS: R-0513BA										1048.4	665.4	697.9	186	562.5	189.6		723.6											
GRAND TOTALS										2145.2	1724.6	1081.7	536.2	917.7	189.6		942	60			62.4	87.6						

STATION	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS C.S.P.	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	FOR DRAINAGE TOTAL M. FOR PAY QUANTITY SHALL BE COL. "A" + (1.5 X COL. "B") METERS A: 1.50 THRU 3.00	METERS B: 3.00 AND ABOVE	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 "D" STD. 840.19 OR 840.28	M.D.I. TYPE "B" STD. 840.18 OR 840.27	M.D.I. TYPE "A" STD. 840.17 OR 840.26	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. FRAME WITH GRATE STD. 840.22	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	M.D.I. FRAME WITH TWO GRATES STD. 840.20	T.B.D.I. STD. 840.35	T.B.D.I. FRAME WITH TWO GRATES STD. 840.37	M.H. FRAME & COVER STD. 840.54	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	REMOVE EX. DI					375mm PARALLEL PIPE END SECTION	450mm PARELLEL PIPE END SECTION	CORR. STEEL ELBOW NO. & SIZE	PREFORMED SCOUR HOLE	CONC. COLLARS, CL. "B" CM STD.840.72	CONC. & BRICK PIPE PLUG m3 STD.840.71	PIPE REMOVAL	REMARKS
–L–																																				
76+40			1	.01								1		1																					
76+40																																			
78+51	2.6																																		
78+48			1	.13								1		1																					
78+44																																			
78+40			1	.97								1		1																					
78+36																																			
80+60			1									1		1																					
80+60																																			
80+60			1									1		1																					
80+60																																			
83+20																																			
84+80																																			
85+60			1									1		1																					
85+60																																			
85+60			1									1		1																					
–Y1–																																			
11+25																																			
11+25																																			
12+12	2.6																																		
12+15			1																																
12+15																																			
–SR2–																																			
10+08																																			
–Y2–																																			
11+10																																			
11+00																																		5.7	REMOVE EX. PIPE & HDWL.'S
11+40																																		5.9	REMOVE EX. PIPE & HDWL.'S
12+31																																		12	REMOVE EX. 600 PIPE
11+90																																			
12+30																																			
12+61																																			
13+20																																			
14+22			1																		1	1													
14+22																																2@400			
–SR4–																																			
10+22																																		40	REMOVE EX. PIPE & HDWL'S
–TEMPY1–																																			
13+40																																		18.0	TEMPORARY PIPE
13+85																																		26.4	TEMPORARY PIPE
–DW5–																																			
10+08																																			
SHEET TOTAL	5.2		9	1.11								1	1	7		7							1						2@400	1	1.36	68	
PROJECT TOTALS: R-0513A	17.1		79	8.67	0.38	5		1	4	2	2	17	42		56		1	9	5	12		1		3					14@400	3	6.49	235	NOTE: INCL 106.8 m PIPE REM & 2.28CM CONC. COLLARS FROM 1350mm SHEET
																													6@450				
PROJECT TOTALS: R-0513BA	33.2		86	6.3	0.2	5	1		3	1	1	2	74	1	46	1		2	32	3							6	4	54@400	2	0.66	28.4	
GRAND TOTALS	48.8		165	14.97	0.58	10	1	1	7	3	3	19	116	1	102	1	1	11	37	15		1		3			6	4	68@400 6@450	5	7.15	263.4	

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

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