6/20/00

COMPUTED BY: K. DUNN DATE: APRIL 7, 2004
CHECKED BY: J. JATKO DATE: APRIL 7, 2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2514A	3-A

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

STATION / SIZE / THICKNESS OR GAUGE	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
SHEET 4															
99+30	CL	1		12.15	11.30	10.92									
-YA-REV0+42	RT	3	2			11.90					16.0				
-YA-REV0+42	LT		3		12.30						29.0				
-YA-REV0+44	RT														
-YA-REV0+47	LT														
-YA-REV0+74	RT	4													
-YA-REV0+77	RT	5	7		12.30	11.57			23.6						
-YA-REV0+95	LT	6	7		11.50	11.34					22.0				
-YA-REV1+27	RT	8	7		12.15	11.57			24.5						
-YA-REV1+02	RT	7		12.41	11.34	11.10									
-YB- 0+20	LT	8							7.8						
-YB- 0+21	CL														
-YB- 0+27	CL	9			12.30	12.10				39.0					
-YB- 0+44	LT														
-YB- 0+59	RT														
-YB- 1+02	RT	10													
100+72	CL	11		13.02	12.35										
100+95	LT														
101+51	RT	12													
SHEET 5															
102+63	LT	13													
103+14	CL	14													
103+25	LT	16	15	12.72	11.59	11.31				20.0					
103+25	RT		16		11.85	11.59				23.5					
103+60	LT	17													
103+70	RT	18													
103+78	LT	19													
103+80	RT	20													
104+00	LT	21													
104+68	LT														
104+86	RT	22													
105+00	RT														
SHEET 6															
105+35	LT	23													
105+50	RT	24													
105+60	CL	25													
105+75	RT														
105+78	RT		27		10.90	10.82							24.5		
105+85	LT	26													
105+89	LT	27	28	12.35	10.82	9.91							29.5		
106+85	CL														
106+88	RT	29													
SHEET 3-A TOTAL									55.9	82.5	67.0		54.0		

STATION	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300 (1.63)	400 (1.63)	450 (1.63)	600 (1.63)	600	800 (2.01)	800	900 (2.01)	900	1000 (2.77)	1000	1200 (2.77)	1200	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	C.S.P.	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	C.B. STD. 840.01 OR 840.02	FRAME, GRATES, AND HOOD STD. 840.03 TYPE OF GRATE E	F	G	
SHEET 4																										
99+30																			1							
-YA-REV0+42																			1							
-YA-REV0+42																										
-YA-REV0+44																										
-YA-REV0+47																										
-YA-REV0+74														9.0												
-YA-REV0+77																										
-YA-REV0+95																										
-YA-REV1+27																										
-YA-REV1+02																			1							
-YB- 0+20																										
-YB- 0+21																										
-YB- 0+27																										
-YB- 0+44																										
-YB- 0+59																										
-YB- 1+02														6.0												
100+72																			1							
100+95																										
101+51														7.7												
SHEET 5																										
102+63														7.2												
103+14																										
103+25																			1							
103+25																										
103+60														8.0												
103+70														5.8												
103+78														7.5												
103+80																										
104+00														7.5												
104+68																										
104+86														5.2												
105+00																										
SHEET 6																										
105+35														7.1												
105+50														6.1												
105+60																										
105+75																										
105+78																										
105+85														6.1												
105+89																			1	0.03						
106+85																										
106+88														7.9												
SHEET 3-A TOTAL														91.1					6	0.03						

STATION	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 GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	M.H. STD. 840.51 OR 840.53	M.H. FRAME & COVER STD. 840.54	FLOWABLE FILL (m^3)	M.D.I. FRAME WITH TWO GRATES STD. 840.20	CONV. EXIST. J.B. TO D.I.	MODIFIED CONCRETE FLUME	300mm X 450mm TEE	300 mm TEMPORARY PIPE (PLAIN C.S.)	450 mm TEMPORARY PIPE (PLAIN C.S.)	600 mm TEMPORARY PIPE (PLAIN C.S.)	800 mm TEMPORARY PIPE (PLAIN C.S.)	900 mm TEMPORARY PIPE (PLAIN C.S.)	CORR. STEEL ELBOW NO. & SIZE	PREFORMED SCOUR HOLES	CONC. COLLARS, CL. "B" m^3 STD.840.72	CONC. & BRICK PIPE PLUG m^3 STD.840.71	PIPE REMOVAL (meters)	REMARKS
SHEET 4																													
99+30				1			1																					2	
-YA-REV0+42											1																		
-YA-REV0+42																													
-YA-REV0+44																												8.4	
-YA-REV0+47														5.5															
-YA-REV0+74																												8.6	
-YA-REV0+77																												8	
-YA-REV0+95																													
-YA-REV1+27																													
-YA-REV1+02				1			1																			0.40			
-YB- 0+20																													
-YB- 0+21														6.6															
-YB- 0+27																													
-YB- 0+44																												7.3	
-YB- 0+59																												6	
-YB- 1+02																													
100+72					1		1																						
100+95																												7.4	
101+51																												9.7	
SHEET 5																													
102+63																												7.1	
103+14																		1	10										
103+25							1				1					1													
103+25																													
103+60																												9.7	
103+70																												4	
103+78																												9.7	
103+80														3.3					24										
104+00																												8.8	
104+68																												8.9	
104+86																												7.6	
105+00																												4.7	
SHEET 6																													
105+35																												7.4	
105+50																												6.2	
105+60																				28									
105+75																												13.7	
105+78																													
105+85																													
105+89							1			1						1					2					0.40		20.4	
106+85																												6	
106+88																												6.2	
SHEET 3-A TOTAL				2	1		5			1	2			15.4		2		1	34	28	2					0.80		177.8	

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

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