RD104,10/13/00,G:\Admin\DataMasters\Excel_sheets\Drainage_Summaries.xls

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.	SHEET NO.
R-513C	3-G

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200mm & 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	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)
330+50 -L-	CL	178		41.3	40.74	40.65			28.8														
65+95 -Y8-	CL	179			39.23	39.1								28.8									
333+16 -L-	CL	180			40.17																		
63+14 -Y8-	RT	181																					
65+33 -Y8-	RT	182																					
335+88 -L-	CL	183		41.34	40.26																		
		183	186		41.61	40.3			136.8														
68+73 -Y8-	LT	184			EXIST.	40.41				6.0													
68+73 -Y8-	RT	185			40.52	EXIST.				2.4													
337+25 -L-	CL	186		42.42																			
342+75 -L-	CL	187		42.39																			
		187	188		41.58	39.53			106.8														
343+81 -L-	CL	188		41.22																			
71+60 -Y8-	RT	189																					
72+40 -Y8-	RT	190																					
73+00 -Y8-	RT	191			39.14	EXIST.			4.8														
73+00 -Y8-	LT	192			EXIST.	39.1			4.8														
12+37 -Y1A-	LT	193			40.2	EXIST.							2.4										
12+37 -Y1A-	RT	194			EXIST.	40.1							2.4										
12+20 -Y1A-	LT	195																					
12+20 -Y1A-	RT	195A																					
11+16 -Y1A-	LT	196																					
16+87 -Y1-	RT	197																					
17+11 -Y1-	LT	198																					
17+30 -Y1-	RT	199																					
24+84 -Y5-	CL	200			41.3	41.25						56.4 (CL IV)											
27+56 -Y5-	LT	201			EXIST.	42.35				2.4													
27+56 -Y5-	RT	202			42.45	EXIST.				2.4													
27+65 -Y5-	RT	202A																					
27+82 -Y5-	RT	203																					
11+54 -Y2-	LT	204		39.1	38.5					2.4													
11+54 -Y2-	CL	205		39.91	38.63																		
[illegible]1+54 -Y2-	CL	206		39.63	38.63																		
11+54 -Y2-	RT	207			38.6	EXIST.				3.6													
13+66 -Y2-	RT	208		38.8	38.18					1.2													
15+20 -Y2-	CL	209		39.48																			
		209	210		38.67	38.57			120.0														
16+40 -Y2-	CL	210		39.31	38.57																		
16+40 -Y2-	RT	211		39.45	38.45																		
SHEET TOTALS									402.0	20.4			4.8	28.8									
												56.4 (CL IV)											

STATION	STRUCTURE NO. FROM	STRUCTURE NO. TO	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 FOR DRAINAGE STRUCTURES PER EACH (0 THRU 1.50)	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') METERS A 1.5 THRU 3.00	B 3.00 AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND 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 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	MANHOLE STD. 840.51	M.H. STD. 840.51 OR 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT D.I. TO J.B.	ADJUST D.I.
330+50 -L-	178							1											1		1								
65+95 -Y8-	179					3.4																							
333+16 -L-	180																												1
63+14 -Y8-	181		9.6																										
65+33 -Y8-	182		9.6																										
335+88 -L-	183																												1
	183	186																											
68+73 -Y8-	184																												
68+73 -Y8-	185																												
337+25 -L-	186							1										1			1								
342+75 -L-	187							1										1			1								
	187	188																											
343+81 -L-	188																												1
71+60 -Y8-	189		9.6																										
72+40 -Y8-	190		9.6																										
73+00 -Y8-	191																												
73+00 -Y8-	192																												
12+37 -Y1A-	193					2.6																							
12+37 -Y1A-	194																												
12+20 -Y1A-	195		9.6																										
12+20 -Y1A-	195A		9.6																										
11+16 -Y1A-	196			9.6																									
16+87 -Y1-	197		9.6																										
17+11 -Y1-	198		9.6																										
17+30 -Y1-	199		9.6																										
24+84 -Y5-	200																												
27+56 -Y5-	201																												
27+56 -Y5-	202																												
27+65 -Y5-	202A		9.6																										
27+82 -Y5-	203		9.6																										
11+54 -Y2-	204							1											1		1								
11+54 -Y2-	205							1										1			1								
[illegible]1+54 -Y2-	206																												1
11+54 -Y2-	207																												
13+66 -Y2-	208							1											1		1								
15+20 -Y2-	209							1											1		1								
	209	210																											
16+40 -Y2-	210																												1
16+40 -Y2-	211																											1	
SHEET TOTALS			105.6	9.6		6.0		7										3	4		7							1	5

STATION	STRUCTURE NO. FROM	STRUCTURE NO. TO	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
330+50 -L-	178						
65+95 -Y8-	179						
333+16 -L-	180						
63+14 -Y8-	181						
65+33 -Y8-	182						
335+88 -L-	183						
	183	186					
68+73 -Y8-	184			0.33			REMOVE FES
68+73 -Y8-	185			0.33			REMOVE FES
337+25 -L-	186						
342+75 -L-	187						
	187	188					
343+81 -L-	188						
71+60 -Y8-	189					7.2	
72+40 -Y8-	190					7.2	
73+00 -Y8-	191			0.29			REMOVE FES
73+00 -Y8-	192			0.29			REMOVE FES
12+37 -Y1A-	193			0.56			
12+37 -Y1A-	194			0.56			
12+20 -Y1A-	195					7.2	
12+20 -Y1A-	195A						
11+16 -Y1A-	196					7.2	
16+87 -Y1-	197					6.6	
17+11 -Y1-	198					9	
17+30 -Y1-	199						
24+84 -Y5-	200						
27+56 -Y5-	201			0.33			
27+56 -Y5-	202			0.33			
27+65 -Y5-	202A						
27+82 -Y5-	203					9	
11+54 -Y2-	204			0.33			
11+54 -Y2-	205						
[illegible]1+54 -Y2-	206						SEE DETAIL SHEET 2K
11+54 -Y2-	207			0.33			REMOVE H.W.
13+66 -Y2-	208			0.33			REMOVE H.W.
15+20 -Y2-	209						
	209	210					
16+40 -Y2-	210						
16+40 -Y2-	211						SEE DETAIL SHEET 2K
SHEET TOTALS				4.01		53.4	

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 JUNCTION BOX