RAL-R72

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.	SHEET NO.
R-2539C	3-O

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

ABBREVIATIONS

C.B.	CATCH BASIN
B.D.O.	BERM DRAIN OUTLET
D.I.	DROP INLET
M.D.I.	MEDIAN DROP INLET
O.T.C.B.	OPEN THROAT CATCH BASIN
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

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	450 CLASS IV	600	600 CLASS IV	750	750 CLASS IV	900	900 CLASS IV	1050	1050 CLASS IV	1200	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 400 / 1.63
SHEET 22																					
L 220+77	R	273		4.07	2.83																
L 220+77	R	273	276		2.83	2.76	X					37.2									
L 220+85	L	274		4.05	2.97																
L 220+85	L	274	277		2.97	2.85	X		58.8												
L 221+14	R	275		3.70	3.01																
L 221+14	R	275	276		3.01	2.76			4.8												
L 221+14	R	276		3.94	2.76																
L 221+14	R	276	279		2.76	2.68	X					38.4									
SHEET 23																					
L 221+44	L	277		3.91	2.85																
L 221+44	L	277	287		2.85	2.75	X			54.0											
L 221+45	R	278		3.45	2.77																
L 221+45	R	278	279		2.77	2.68			8.4												
L 221+52	R	279		3.85	2.68																
L 221+52	R	279	285		2.68	2.55	X					60.0									
L 221+73	R	280		3.65	2.97																
L 221+73	R	280	281		2.97	2.65			8.4												
L 221+82	R	281		3.90	2.65																
L 221+82	R	281	283		2.65	2.61	X			15.6											
Y16 10+44	R	282		3.88	2.88																
Y16 10+44	R	282	283		2.88	2.61				24.0											
Y16 10+53	L	IN	282		2.95	2.61				9.6											
Y16 10+62	M	IN	282		3.12	2.61				20.4											
L 221+97	R	283		3.81	2.61																
L 221+97	R	283	284		2.61	2.79	X			7.2											
L 222+03	R	284		3.57	2.79																
L 222+03	R	284	285		2.79	2.55	X			12.2											
L 222+12	R	285		3.96	2.55																
L 222+12	R	285	290		2.55	2.39	X							21.6							
L 221+98	L	286		3.41	2.80																
L 221+98	L	286	287		2.80	2.75		7.2													
L 221+98	L	287		3.98	2.75																
L 221+98	L	287	289		2.75	2.69	X			28.8											
L 222+27	L	288		3.48	2.80																
L 222+27	L	288	289		2.80	2.69			7.2												
L 222+27	L	289		3.92	2.69																
L 222+27	L	289	292		2.69	2.52	X			21.6											
L 222+33	R	290		3.90	2.39																
L 222+33	R	IN	290		2.79	2.39				6.0											
L 222+33	R	290	294		2.39	2.33	X							30.0							
L 222+48	L	291		3.14	2.53																
L 222+48	L	291	292		2.53	2.52	X	7.2													
SHEET TOTALS								14.4	87.6	199.4		135.6		51.6							

STATION	DUCTILE IRON PIPE, CLASS 50 (UNLESS NOTED OTHERWISE) 300	400	450	600	750	900	1050	1200	375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	750mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS R.C.P.	C.S.P.	QUANITIES FOR DRAINAGE STRUCTURES PER EACH (0 THRU 1.50)	*TOTAL METERS 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
SHEET 22																							
L 220+77															1			1		1			
L 220+77																							
L 220+85															1			1			1		
L 220+85																							
L 221+14															1							1	1
L 221+14																							
L 221+14															1			1		1			
L 221+14																							
SHEET 23																							
L 221+44															1			1	1				
L 221+44																							
L 221+45															1							1	1
L 221+45																							
L 221+52															1			1	1				
L 221+52																							
L 221+73															1							1	1
L 221+73																							
L 221+82															1			1	1				
L 221+82																							
Y16 10+44															1			1		1			
Y16 10+44																							
Y16 10+53																							
Y16 10+62																							
L 221+97															1			1	1				
L 221+97																							
L 222+03															1							1	1
L 222+03																							
L 222+12															1			1		1			
L 222+12																							
L 221+98															1							1	1
L 221+98																							
L 221+98															1			1			1		
L 221+98																							
L 222+27															1							1	1
L 222+27																							
L 222+27															1			1			1		
L 222+27																							
L 222+33															1	0.01		1		1			
L 222+33																							
L 222+33																							
L 222+48															1							1	1
L 222+48																							
SHEET TOTALS															19	0.01		12	4	5	3	7	7

STATION	T.B.D.I. STD. 840.35 OR 840.36	T.B.D.I. FRAME AND GRATE STD. 840.37	DRIVEWAY D.I. STD. 840.30	DRIVEWAY GRATE & FRAME (M)	MOD. CONC. FLUME W/ CONC. DITCH FOR 750 C&G (SEE DETAIL 2-Z)	J.B. STD. 840.31 OR 840.32	M.H. FRAME AND COVER STD. 840.54	D.I. NARROW FRAME AND GRATE STD. 840.13	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. 840.20	M.D.I. FRAME WITH TWO GRATES STD. 840.20	M.D.I. FRAME WITH GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. FRAME WITH GRATE STD. 840.29	M.D.I. FRAME WITH TWO GRATES STD. 840.29	MOD.CONC. FLUME W/ CONC./RIP RAP DITCH FOR 200X450 CURB (SEE DETAIL 2-AA)	MOD.CONC. FLUME W/ RIP RAP DITCH FOR 750 C&G (SEE DETAIL 2-Z)	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" M^3 STD. 840.72	CONC. & BRICK PIPE PLUG, M^3 STD. 840.71	PIPE REMOVAL (METERS)	REMARKS
SHEET 22																								
L 220+77																								
L 220+77																							7.4	375 RCP
L 220+85																							5.6	375 RCP
L 220+85																								
L 221+14																								
L 221+14																							6.8	375 RCP
L 221+14																								
L 221+14																							6.0	375 RCP
SHEET 23																								
L 221+44																								
L 221+44																							5.9	375 PLASTIC
L 221+45																								
L 221+45																								
L 221+52																								
L 221+52																							2.7	375 RCP
L 221+73																								
L 221+73																							6.3	375 RCP
L 221+82																								
L 221+82																							14.9	450 RCP
Y16 10+44																								
Y16 10+44																								
Y16 10+53																							8.3	375 RCP
Y16 10+62																								
L 221+97																								
L 221+97																								
L 222+03																								
L 222+03																								
L 222+12																								
L 222+12																								
L 221+98																								
L 221+98																								
L 221+98																								
L 221+98																							4.9	375 RCP
L 222+27																								
L 222+27																								
L 222+27																								
L 222+27																							3.5	375 RCP
L 222+33																								
L 222+33																							11.0	450 RCP
L 222+33																								
L 222+48																								
L 222+48																								
SHEET TOTALS																							83.3	