COMPUTED BY: DJC DATE: 6/22/2004

CHECKED BY: KEM DATE: 3/15/2005

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.	SHEET NO.
R-2552AB	3-F

RD214565

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200mm & 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	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE) 300	400	450	600		800		900		1000		400 UNCOATED		375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) R.C.P.	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES "TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') METERS A	METERS B	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	TRAFFIC BEARING D.I. STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	J.B. STD. 840.31 OR 840.32	M.D.I. FRAME WITH GRATE STD. 840.22	TRAFFIC BEARING DROP INLET STD. 840.35	M.D.I. (N.S) FRAME WITH TWO GRATES STD.840.29	M.H. FRAME AND COVER STD. 840.54	0.T.C.B. STD. 840.04 OR 840.05	CONC. APRON FOR DROP INLET	375 mm SLUICE GATE (SEE SHEET 2-G)	900 mm SLUICE GATE (SEE SHEET 2-G)	1050 mm SLUICE GATE (SEE SHEET 2-G AND 2-E)	CONCRETE RISER W/TRASH RACK (SEE SHEET 2-E AND 2-F)	LEVEL SPREADER (SEE DETAIL O)	PREFORMED SCOUR HOLE (PSH) SEE SHT. 2-D	BERM DRAINAGE OUTLET (BDO)	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
SIZE								300	375	450	600	750	900	1050	1200	300	400	450	600		800		900		1000		400 UNCOATED		375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE)		QUANTITIES FOR DRAINAGE STRUCTURES "TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')		C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03			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	TRAFFIC BEARING D.I. STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	J.B. STD. 840.31 OR 840.32	M.D.I. FRAME WITH GRATE STD. 840.22	TRAFFIC BEARING DROP INLET STD. 840.35	M.D.I. (N.S) FRAME WITH TWO GRATES STD.840.29	M.H. FRAME AND COVER STD. 840.54	0.T.C.B. STD. 840.04 OR 840.05	CONC. APRON FOR DROP INLET	375 mm SLUICE GATE (SEE SHEET 2-G)	900 mm SLUICE GATE (SEE SHEET 2-G)	1050 mm SLUICE GATE (SEE SHEET 2-G AND 2-E)	CONCRETE RISER W/TRASH RACK (SEE SHEET 2-E AND 2-F)	LEVEL SPREADER (SEE DETAIL O)	PREFORMED SCOUR HOLE (PSH) SEE SHT. 2-D	BERM DRAINAGE OUTLET (BDO)	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)	
THICKNESS OR GAUGE		FROM	TO					1.63	1.63	1.63	1.63	2.01	2.01	70	1.63																R.C.P.	C.S.P.	PER EACH (0 THRU 1.50)	1.5 THRU 3.00	3.00 AND ABOVE																																				
-RPC-																																																											
		129	128									8.4																																																	
12+21.772	RT	129		82.100	80.000																													1	0.60																												O.T.C.B
		131	132		88.090													19.2																																											
13+00.000	RT	131		89.000	88.090																													1																												2GI W/FS
-RPD-																																																												
12+50.070	LT	133		89.860	89.020																													1																												2GI
		133	134		89.020	88.100											6.0																																											
12+50.003	LT	134			88.100																																																						1.2mm x 1.2mm PSH
		135	133		89.260	89.020			15.6																																																			
12+65.434	LT	135		89.840	89.260																													1																												2GI
13+82.110	RT	138			90.200																																																						1.2mm x 1.2mm PSH
		139	138		90.880	90.200			26.4																																																		
13+79.842	LT	139		91.79	90.880																													1																												2GI
		140	139		91.700	90.880											6																																										
13+79.221	LT	140			91.700																																																							SEE SHT. 2-D FOR DETAIL
		142	141		93.970	93.800								30.0																																														
15+15.390	RT	162		95.550	94.710																													1																												2GI
		162	163		94.710	94.400											6.0																																										
15+17.000	RT	163			94.400																																																							1.2mm x 1.2mm PSH
15+57.239	LT	142			93.970																																																							HEADWALL
-SRB-																																																													
10+06.716	LT	153																																																									DRIVEWAY PIPE
10+37.777	LT	154																																																									DRIVEWAY PIPE
10+68.887	LT	155																																																									DRIVEWAY PIPE
11+11.871	CL	143	144		97.000	96.700				15.6																																																		CROSSLINE PIPE
11+16.879	LT	156																																																									DRIVEWAY PIPE
11+96.270	CL	145	146		97.450	97.360				13.2																																																		CROSSLINE PIPE
13+19.710	LT	157																																																									DRIVEWAY PIPE
13+51.732	LT	158																																																									DRIVEWAY PIPE
15+25.164	LT	159																																																									DRIVEWAY PIPE
15+45.476	LT	160																																																										DRIVEWAY PIPE
-SRD-																																																												
14+06.143	LT	161																																																									DRIVEWAY PIPE
15+53.986	LT	147			94.100	93.97								18.0																																														HEADWALL
-Y2DET-																																																											
18+80.683	CL	148	149		95.120	93.200												26.4																																										26.4	TEMP. PIPE (UNCOATED)
19+36.411	CL	150	151		94.300	92.500												31.2																																										31.2	TEMP. PIPE (UNCOATED)
SHEET TOTAL								0.0	42.0	28.8	0.0	8.4	0.0	48.0	0.0	0.0	18.0	19.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.6	0.0	66.0	0.0	0.0	6.0	0.0	6	0.6	0	0	0	0	0	0	0	0	5	0	3	2	0	0	0	0	0	0	1	0	0	0	0	0	5	1	3 @ 400	0	0	57.6	
PROJECT TOTAL								0.0	1015.2	861.6	744.0	201.6	163.2	208.8	0.0	0.0	103.2	123.6	55.2	0.0	0.0	0.0	0.0	0.0	69.6	0.0	57.6	0.0	128.4	0.0	0.0	21.2	0.0	79	10.04	0	0	0	0	0	2	2	11	51	4	17	49	1	1	4	2	2	2	4	1	2	3	1	2	3	4	13	8	7 @ 400	0.66	0.06	104.0	
SAY TOTAL								0.0	1015.2	861.6	744.0	201.6	163.2	208.8	0.0	0.0	103.2	123.6	55.2	0.0	0.0	0.0	0.0	0.0	69.6	0.0	57.6	0.0	128.4	0.0	0.0	22.0	0.0	79	11.00	0	0	0	0	0	2	2	11	51	4	17	49	1	1	4	2	2	2	4	1	2	3	1	2	3	4	13	8	1 @ 1000	1.0	1.0	104.0	

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