RD214565,3/23/2005,R:\Estimates\FINAL\R2552AB_Drainage.xls

RD214565

COMPUTED BY: DJC DATE: 6/21/2004

CHECKED BY: KEM DATE: 3/15/2005

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT NO.: R-2552AB

SHEET NO.: 3-B

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

STATION / SIZE / THICKNESS OR GAUGE / -L-	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	600	800 / 2.01	800	900 / 2.01	900	1000 / 2.77	1000	400 / 1.63	UNCOATED	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	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
		29	27		63.780	63.710				20.4																																																										
38+40.009	RT	29		65.570	63.780																													1	0.29									1		1																						2GI
38+40.640	RT	29	30		63.780	61.200												12.0																																												1		1 @ 450				1.5m x 1.5m PSH
		31	32		64.070	63.850			21.6																																																											
38+61.036	RT	31		65.500	63.850																													1	0.15									1		1																						2GI
		32	29		63.850	63.780				20.4																																																								
38+60.92	CL	32		65.090	64.070																													1										1			1				1																		3GI
		33	31		64.280	63.850				72.0																																																								
39+33.287	RT	33		65.720	64.280																													1										1		1																						2GI
		34	33		65.090	64.280			33.6																																																											
39+67.518	RT	34		65.930	65.090																													1										1		1																						2GI
		35	33		64.480	64.280			32.4																																																											
39+32.920	LT	35		66.020	64.480																													1	0.04													1	1																				2GI
41+82.462	LT	36		61.930	60.800																													1																											1								SEE SHEET 2-E,2-F & 2-I FOR DETAILS
		36	37		60.800	60.500						9.6																																																							
41+79.735	LT	37		61.990	60.500																													1															1				1																JB W/ MH
		37	38		60.500	59.800						12.0																				3.4																										1											SEE SHEET 2-G FOR DETAIL
41+82.598	LT	39		61.910	60.800																													1															1				1																SEE SHEET 2-H FOR DETAIL
		39	40		60.800	60.750			10.8																																																											
41+71.914	LT	40			60.750																											0.9																									1				1								SEE SHEET 2-G FOR DETAIL
42+14.322	CL	42		66.650	64.610																													1	0.54									1			1																						2 GI W/FS
		42	41		64.610	61.000											33.6																																															1 @ 400				
42+40.000	RT	43		66.340	65.460																													1										1			1																						2GI W/FS
		43	42		65.460	64.610			37.2																																																												
		45	44		65.650	65.000					26.4																																																										
42+80.000	LT	45		67.100	65.650																													1									1				1																						2GI TYPE A
		46	45		67.260	65.650					100.8																																																										
43+80.000	LT	46		68.710	67.260																													1									1				1																						2GI TYPE A W/FS
		47	46		67.760	67.260			27.6																																																											
43+80.000	CL	47		69.020	67.760																													1										1			1																						2GI W/FS
		48	47		67.900	67.760			28.8																																																											
43+80.000	RT	48		68.710	67.900																													1										1			1																						2GI W/FS
		49	46		67.620	67.260				58.8																																																									
44+38.368	LT	49		68.710	67.620																													1										1			1																						2GI
		50	49		81.500	67.620											26.4																																															1 @ 400				
44+38.368	LT	50			81.500																																																										1					BDO SEE STD. 850.10 & 850.11
45+66.891	RT	51		74.230	72.500																													1	0.23																										1								SEE SHEET 2-E,2-F & 2-I FOR DETAILS
		51	52		72.500	72.000								8.4																		4.0																											1										SEE SHT. 2-G FOR DETAIL
45+79.005	RT	53		74.610	73.500																													1															1				1																SEE SHT. 2-H FOR DETAIL
		53	54		73.500				12.0																																																											
45+82.757	RT	54																														0.9																									1				1								SEE SHT. 2-G FOR DETAIL
		56	55		73.710	73.500							34.8																																																							
																																																																1 @ 450				
SHEET TOTALS								0.0	204.0	171.6	127.2	21.6	34.8	8.4	0.0	0.0	60.0	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.2	0.0	18	1.25	0	0	0	0	0	0	0	2	10	0	4	8	1	1	3	1	0	0	3	0	0	2	1	1	2	2	1	1	2 @ 400				

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