6/20/00

COMPUTED BY: AL SMITH DATE: 9/23/02
CHECKED BY: S. ASHLEY DATE: 10/27/03

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
U-2734	3-G

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 1200 mm & 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) SIZE	300	375	450	600	750	900	1050	1200	DUCTILE IRON PIPE (UNLESS NOTED OTHERWISE) SIZE	300	375	450	600	750	900	1050	1200
								THICKNESS OR GAUGE																	
		159	163		10.62	10.84	*							42.0											
–L– 46+84	LT	160		12.72	10.81																				
		160	161		10.81	10.97										10.8									
–L– 46+84	LT	161		12.93	10.97																				
		161	162		10.97	11.00										2.4									
–L– 47+27	RT	163		12.58	10.84																				
		163	164		10.58	11.93				12.0															
		163	165		10.84	11.13	*							57.6											
–L– 47+28	LT	164		12.90	11.93																				
–L– 47+86	RT	165		12.80	11.13																				
		165	166		11.13	11.36							12.0												
		165	170		11.13	11.83	*							96.0											
–L– 47+87	LT	166		13.16	11.36																				
		166	167		11.36	11.50							13.2												
		168	169		11.52	11.60						13.2													
–L– 48+06	LT	169		12.80	11.60																				
–L– 48+84	RT	170		13.32	11.83																				
		170	171		11.83	11.87												7.2							
		170	173		11.83	12.08												12.0							
		170	175		11.83	12.00	*														20.4				
–L– 48+90	RT	171		13.45	11.87																				
		171	172		11.87	11.90												9.6							
–L– 48+99	RT	172		12.48	11.90																				
–L– 48+85	LT	173		13.76	12.08																				
		173	174		12.08	12.13												14.4							
–L– 48+86	LT	174		13.10	12.13																				
–L– 49+06	RT	175		13.47	12.00																				
		175	176		12.00	12.21	*														33.6				
–L– 49+41	RT	176		13.81	12.21																				
		176	177		12.21	12.98												12.0							
		176	178		12.21	12.46	*														46.8				
–L– 49+41	LT	177		14.09	12.98																				
–L– 49+90	RT	178		14.31	12.46																				
		178	179		12.46	12.90														24.0					
		178	180		12.46	12.57	*													22.8					
–L– 49+94	LT	180		14.19	12.57																				
SHEET TOTAL													25.2								100.8				
									12.0		13.2		195.6		13.2			55.2		46.8					

	PRECAST DRAINAGE STRUCTURE REQUIRED		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.	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. METERS C.S.P.	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	FOR DRAINAGE TOTAL M. FOR PAY QUANTITY SHALL BE COL. A + (0.3 X COL. B) METERS 1.50 THRU 3.00	METERS 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	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. (N.S.) FRAME W/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	M.H.C. STD. 840.54	T.B.D.I. STD. 840.35	D.I. FRAME & GRATE STD. 840.29	T.B.J.B. STD. 840.52	PRE-FORMED SCOUR HOLE	CONC. APRON FOR DI STD. 852.06	ADJUST EX. C.B.	ADJUST EX. D.I.	ADJUST EX. M.H.	CONV. EXIST. D.I. TO J.B.	CONC. APRON FOR CB STD. 852.05	FLOWABLE FILL (CUBIC METERS)	BORE AND JACK (METERS) W/TWO COLLARS	CONC. & BRICK PIPE PLUG m STD.840.71	CONC. COLLARS, CL. "B" m STD.840.72	PIPE REMOVAL (meters)	REMARKS
	X							1	0.41		1			X													1						
	X							1	0.46		1		X																				
																																0.74		RETAIN GRATE
	X							1	0.24		1			X																			20	
	X							1			1			X																				
	X							1			1			X																		1		
																																	15	
	X							1	0.30		1			X																		1		
																																	15.4	
	X							1									1	1															20.6	
	X							1						X																			22.8	SEE DETAIL SHEET 2-LL
																																	12.2	
	X							1	0.08				X																					SEE DETAIL SHEET 2-LL
								1																		1								SEE DETAIL SHEET 2-LL
	X							1	0.18					X																1				SEE DETAIL SHEET 2-LL
								1										1																SEE DETAIL SHEET 2-LL
	X							1						X																				SEE DETAIL SHEET 2-LL
																																	6.2	
	X							1	0.10					X																				SEE DETAIL SHEET 2-LL
	X							1	X					X																1				SEE DETAIL SHEET 2-LL
	X							1	0.35					X																				SEE DETAIL SHEET 2-LL
	X							1	0.12				X																				SEE DETAIL SHEET 2-LL
								17						11																5			0.74		
	14								2.24		6		3				2			1												112.2	SEE DETAIL SHEET 2-LL

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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