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-A

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 300	375	450	600	750	900	1050	1200	DUCTILE IRON PIPE 300	375	450	600	750	900	1050	1200
-L- 13+18	LT	1B		7.92	7.00																		
-L- 13+18	LT	1C		8.00	6.48																		
		1B	1C		7.00	6.86			3.6														
-L- 13+69	LT	1		8.08	5.25																		
-L- 13+60	LT	1A	1		4.88	5.25									4.9								
-L- 13+71	RT	2		7.60	6.63																		
		2	3		6.63	5.80			8.4														
-L- 13+71	RT	3		8.00	5.80																		
		3	4		5.90	7.17			33.6														
-L- 14+06	RT	4		8.09	7.17																		
		5	6		7.58	6.96					11.0												
-L- 14+47	LT	6		8.30	6.96																		
		6	7		6.96	7.29					21.6												
-L- 14+47	RT	7		8.21	7.29																		
		7	8		7.29	7.36					31.2												
-L- 14+77	RT	8		8.32	7.36																		
-L- 15+18		10A		8.65																			
-L- 14+93	RT	9		8.50	7.43																		
		9	10		7.43	7.47				24.0													
-L- 15+18	RT	10		8.39	7.47																		
		10	11		7.47	7.57			49.2														
-L- 15+18		10A	10		7.68	7.55			15.8														
-L- 15+68	RT	11		8.51	7.57																		
		11	12		7.57	7.80			6.0														
		11	13		7.57	7.64			30.0														
-L- 15+70	RT	12		8.50	7.80																		
-L- 15+99	RT	13		8.54	7.64																		
-L- 15+21	LT	14									8.4												
-L- 16+47	RT	15		8.40	7.80																		
		15	16		7.80	7.66			7.2														
-L- 16+55	RT	16		8.25	7.66																		
	RT	16	17		7.66	7.62	*		8.4														
-L- 16+64	RT	17		8.25	7.62																		
		17	18		7.62	7.60	*		2.4														
-L- 16+67	RT	18		8.25	7.60																		
		18	19		7.60	7.57	*		7.2														
-L- 16+74	RT	19		8.25	7.57																		
		20	21		7.10	6.20						6											
-L- 18+48	LT	21		7.37	5.77																		
		21	22		5.77	5.45	*					104											
-L- 19+51	LT	22		7.08	5.45																		
		22	23		5.45	5.14	*					94											
-L- 20+48	LT	23		6.75	5.14		*					40											
		23	24		5.14	5.00																	
SHEET TOTAL										24.0													
									168.2		52.8												

STATION	FROM	TO	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.	C.S.P.	QUANTITIES: STRUCTURES PER EACH (0 THRU 1.50)	FOR DRAINAGE *TOTAL M FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') METERS A 1.50 THRU 3.00	B 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. 840.29	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
-L- 13+18	1B								1					X																										PLACED BY OTHERS
-L- 13+18	1C		X						1	0.02													1	1																PLACED BY OTHERS REMOVE CB
	1B	1C																																						PLACED BY OTHERS
-L- 13+69	1		X						1	1.19														1			1													PLACED BY OTHERS REMOVE CB
-L- 13+60	1A	1																																				0.74		PLACED BY OTHERS
-L- 13+71	2								1							1	1																							REMOVE DI, CB
	2	3																																						
-L- 13+71	3		X						1	0.70		1			X																									
	3	4																																			0.02			
-L- 14+06	4		X						1			1			X																									
	5	6																																						PLACED BY OTHERS
-L- 14+47	6		X						1														1	1																PLACED BY OTHERS REMOVE CB
	6	7																																						
-L- 14+47	7		X						1			1			X																									
	7	8																																						
-L- 14+77	8		X						1														1	1															31	REMOVE DI, 450 PIPE
-L- 15+18	10A		X						1							1	1												1											
-L- 14+93	9																															1								ADJUST EXIST. MH
	9	10																																						
-L- 15+18	10		X						1			1			X																									MIN. DEPTH
	10	11																																						REMOVE DI
-L- 15+18	10A	10																																						
-L- 15+68	11		X						1			1			X																									
	11	12																																						
	11	13																																						
-L- 15+70	12								1							1	1																							
-L- 15+99	13		X						1			1			X																									
-L- 15+21	14																																				0.05			PLACED BY OTHERS REMOVE FES AT -L- 15+00 LT.
-L- 16+47	15								1							1	1																							
	15	16																																	54.85					
-L- 16+55	16		X						1			1	1																											REMOVE CB
	16	17																																					6.5	REMOVE 300 PIPE
-L- 16+64	17		X						1			1	1																											REMOVE CB
	17	18																																					3.5	REMOVE 300 PIPE
-L- 16+67	18		X						1			1	1																											REMOVE DI
	18	19																																					5.6	REMOVE 300 PIPE
-L- 16+74	19		X						1			1	1																										5.3	REMOVE CB, 375 PIPE
	20	21																																						PLACED BY OTHERS
-L- 18+48	21																																		30.53				3.0	PLACED BY OTHERS/REM. HW
	21	22																																						PLACED BY OTHERS
-L- 19+51	22																																		33.91					PLACED BY OTHERS
	22	23																																						PLACED BY OTHERS
-L- 20+48	23									0.11																														PLACED BY OTHERS
	23	24																																						PLACED BY OTHERS
SHEET TOTAL									15						6	4								1								1								
			12							.7		10	4				4						1						1						54.85		0.02		51.9	

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

6/20/00

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