COMPUTED BY: E. PHIPPS DATE: 6-25-04
CHECKED BY: J. RECK DATE: 6-25-04

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

KCI Associates of North Carolina, P.A.
RALEIGH OFFICE
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SUITE 200, LANDMARK CENTER I
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METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2562C	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 (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	1200	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.
THICKNESS OR GAUGE																1.63	1.63	1.63	1.63	2.01	2.01	2.77	2.77					
98+00	LT	1		39.948																								
		1	3		38.364	38.182	Y		18																			
98+00	RT	2		38.817																								
		2	3		38.233	38.182	Y		18																			
98+00	CL	3		40.138																								
		3	4		38.182	37.912	Y				90																	
98+90	CL	4		40.202																								
		4	5		37.912	37.658	Y				19.2																	
99+30	CL	EX																										
99+40	CL	EX																										
99+42	CL	5		39.717																								
		5	7		37.658	36.864					132																	
100+74	LT	6		37.665																								
		6	7		37.081	36.620	Y		22.8																			
100+74	CL	7		37.996																								
		7	10		36.395	35.181	Y				61.2																	
101+40	RT	9		36.450																								
		9	10		35.866	35.406	Y		24																			
101+46	LT	8		36.250																								
		8	10		35.666	35.406	Y		24																			
101+46	CL	10		36.968																								
		10	12		35.031	32.952	Y					94.8																
107+75	LT	EX																										
107+62.5	CL	24		40.530																								
		24	23		39.946	38.012	Y		120																			
106+44	LT	22		38.662																								
		22	23		38.078	38.012	Y		22.8																			
106+44	CL	23		38.710																								
		23	21		37.937	36.762				142.8																		
105+00	RT	20		37.481																								
		20	21		36.897	36.837			20.4																			
105+00	CL	21		37.425																								
		21	19		36.612	35.945				40.8																		
104+65	LT	18		37.150																								
		18	19		36.566	35.870			22.8																			
104+60	CL	19		37.093																								
		19	17		35.645	35.050					78																	
104+60	LT	EX																										
103+83	LT	15		36.915																								
		15	17		36.077	35.275			22.8																			
103+83	RT	16		36.000																								
		16	17		35.416	35.275			22.8																			
103+83	CL	17		36.500																								
		17	14		34.900	34.460						61.2																
103+24	LT	13		36.370																								
		13	EX		35.456	35.689				1.2																		
		13A	14		35.511	34.760				3.6																		
SHEET TOTAL									338.4	188.4	380.4	156																

STATION	STRUCTURE NO. FROM	STRUCTURE NO. TO	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	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. FRAME WITH GRATE STD. 840.22	M.D.I. FRAME WITH TWO GRATES STD. 840.22	M.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	M.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	CONCRETE APRON STD. 852.06	CONVERT T.B.J.B. TO M.D.I. TYPE "A" STD. 840.17 OR 840.26 (SEE SHT. 2-Q)	CORR. STEEL ELBOW NO. & SIZE	CONC. COLLARS, CL. "B" m^3 STD. 840.72	CONC. & BRICK PIPE PLUG m^3 STD. 840.71	PIPE REMOVAL (meters)	REMARKS
98+00	1		1	0.08						1				1										
	1	3																						
98+00	2		1							1				1										
	2	3																						
98+00	3		1	0.46												1	1	1	1					SEE NOTE ON SHT 4
	3	4																						
98+90	4		1	0.79				1						1										
	4	5																						
99+30	EX																						8	
99+40	EX																						6	
99+42	5		1	0.56				1						1										
	5	7																						
100+74	6		1							1				1										
	6	7																						
100+74	7		1	0.10				1						1										
	7	10																						
101+40	9		1							1				1										
	9	10																						
101+46	8		1							1				1										
	8	10																						
101+46	10		1	0.44				1						1										
	10	12																						
107+75	EX																						15	
107+62.5	24		1							1				1										
	24	23																						
106+44	22		1							1				1										
	22	23																						
106+44	23		1							1				1										
	23	21																						
105+00	20		1							1				1										
	20	21																						
105+00	21		1							1				1										
	21	19																						
104+65	18		1							1				1										
	18	19																						
104+60	19		1					1						1									8	
	19	17																						
104+60	EX																							
103+83	15		1						1					1										
	15	17																						
103+83	16		1							1				1										
	16	17																						
103+83	17		1	0.10				1						1										
	17	14																						
103+24	13		1						1					1							0.33			REMOVE HEADWALL
	13	EX																						PIPE CLEANOUT
	13A	14																			0.33			
SHEET TOTAL			21	2.53				6	2	12				20		1	1	1	1		0.66		37	

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

$$$$$$SYSTIME$$$$$$ $$$$$$DGN$$$$$$ $$$$$$USERNAME$$$$$$