6/20/00

COMPUTED BY: W.T. BEST DATE: 03-03-2004
CHECKED BY: W.A. SMITH DATE: 03-22-2004

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2813C	3-B

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

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

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO.		TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (UNLESS NOTED OTHERWISE)							
SIZE		FROM	TO					300	375	450	600	750	900	1050	1200
10+53.229 -Y1-	RT.	27		661.71											
10+73.456 -Y1-	RT.	28		660.94											
		27	28		660.80	660.02			20.723						
10+87.496 -Y1-	RT.	28	29		659.90	655.00									
10+73.456 -Y1-	LT.	30		660.94											
		30	28		660.02	659.90			6.095						
10+33.002 -Y1-	LT.	31		663.23											
		31	30		662.54	660.02			41.446						
43+19.173 -L-	RT.	32		664.07											
		32	31		663.15	662.54			19.504						
43+26.170 -L-	RT.	33		664.31											
		33	32		663.39	663.15			13.409						
46+21.435 -L-	RT.	34	33												
43+79.692 -L-	RT.	34A													
43+01.603 -L-	LT.	35		661.93											
43+17.527 -L-	LT.	36		662.29											
		36	35		660.65	660.47						13.409			
43+19.989 -L-	LT.	37		663.32											
		37	36		662.40	661.60			10.971						
43+06.841 -L-	LT.														
43+13.507 -L-	LT.														
43+28.248 -L-	RT.														
43+99.967 -L-	LT.	38		666.34											
		38	37		665.42	662.40			75.578						
44+04.607 -L-	RT.														
44+22.421 -L-	RT.														
44+48.298 -L-	LT.														
44+51.187 -L-	RT.														
44+67.892 -L-	LT.	39		670.64											
		39	38		669.72	665.42			67.045						
45+63.389 -L-	LT.	40		674.55											
		40	39		673.63	669.72			96.301						
46+99.869 -L-	LT.	41		674.77											
47+27.446 -L-	LT.	42		674.71											
		41	42		673.85	673.75	X		24.380						
47+88.376 -L-	LT.	43		674.67											
		42	43		673.75	673.55	X			59.731					
47+80.080 -L-	RT.	44		675.01											
		44	43		672.85	672.65				20.723					
47+80.080 -L-	RT.	45	44		672.95	672.85				10.971					
47+91.350 -L-	LT.	43	46		672.65	670.00									
48+17.864 -L-	LT.	47		674.57											
		47	43		673.40	673.30	X		29.256						
48+54.948 -L-	LT	48		674.44											
		48	47		673.52	673.40	X		37.789						
10+05.741 -Y2REV-	℄	49							13.409						
47+79.775 -L-	RT.														
48+28.472 -L-	RT.														
48+95.995 -L-	LT.	50		674.30											
SHEET TOTAL									455.906	91.425		13.409			

STATION	FROM	TO	BITUMINOUS COATED C.S. PIPE TYPE B (UNLESS NOTED OTHERWISE)													375mm SIDE DRAIN PIPE	450mm SIDE DRAIN PIPE	600mm SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. METERS	
SIZE			300	400	450	600		800		900		1000		1200					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						
10+53.229 -Y1-	27																			
10+73.456 -Y1-	28																			
	27	28																		
10+87.496 -Y1-	28	29		17.066																
10+73.456 -Y1-	30																			
	30	28																		
10+33.002 -Y1-	31																			
	31	30																		
43+19.173 -L-	32																			
	32	31																		
43+26.170 -L-	33																			
	33	32																		
46+21.435 -L-	34	33																		
43+79.692 -L-	34A															6.095				
43+01.603 -L-	35																			
43+17.527 -L-	36																			
	36	35																		
43+19.989 -L-	37																			
	37	36																		
43+06.841 -L-																				
43+13.507 -L-																				
43+28.248 -L-																				
43+99.967 -L-	38																			
	38	37																		
44+04.607 -L-																				
44+22.421 -L-																				
44+48.298 -L-																				
44+51.187 -L-																				
44+67.892 -L-	39																			
	39	38																		
45+63.389 -L-	40																			
	40	39																		
46+99.869 -L-	41																			
47+27.446 -L-	42																			
	41	42																		
47+88.376 -L-	43																			
	42	43																		
47+80.080 -L-	44																			
	44	43																		
47+80.080 -L-	45	44																		
47+91.350 -L-	43	46			13.409															
48+17.864 -L-	47																			
	47	43																		
48+54.948 -L-	48																			
	48	47																		
10+05.741 -Y2REV-	49																			
47+79.775 -L-																				
48+28.472 -L-																				
48+95.995 -L-	50																			
SHEET TOTAL				17.066	13.409											6.095				

STATION	FROM	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	C.B. STD. 840.04 OR 840.05	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 & GRATE STD. 840.16	DRIVEWAY D.I. STD. 840.30	DRIVEWAY D.I. FRAME AND GRATE (meters)	CONCRETE APRON FOR C.B. STD. 852.05	FLOWABLE FILL (CUBIC METERS)	CONV. EXIST. D.I. TO J.B.	T.B.J.B. STD. 840.34	J.B. STD. 840.31 OR 840.32	M.H. FRAME & COVER STD. 840.54
10+53.229 -Y1-	27		1			1		1												
10+73.456 -Y1-	28		1			1		1												
	27	28																		
10+87.496 -Y1-	28	29																		
10+73.456 -Y1-	30		1			1			1											
	30	28																		
10+33.002 -Y1-	31		1			1			1											
	31	30																		
43+19.173 -L-	32		1								1	1								
	32	31																		
43+26.170 -L-	33		1			1			1											
	33	32																		
46+21.435 -L-	34	33																		
43+79.692 -L-	34A																			
43+01.603 -L-	35		1			1		1							1					
43+17.527 -L-	36		1	0.140							1	1								
	36	35																		
43+19.989 -L-	37		1			1		1												
	37	36																		
43+06.841 -L-																				
43+13.507 -L-																				
43+28.248 -L-																				
43+99.967 -L-	38		1			1		1												
	38	37																		
44+04.607 -L-																				
44+22.421 -L-																				
44+48.298 -L-																				
44+51.187 -L-																				
44+67.892 -L-	39		1			1		1												
	39	38																		
45+63.389 -L-	40		1			1		1												
	40	39																		
46+99.869 -L-	41		1			1			1											
47+27.446 -L-	42		1			1			1											
	41	42																		
47+88.376 -L-	43		1	0.520		1			1											
	42	43																		
47+80.080 -L-	44		1	0.660		1		1												
	44	43																		
47+80.080 -L-	45	44																		
47+91.350 -L-	43	46																		
48+17.864 -L-	47		1			1			1											
	47	43																		
48+54.948 -L-	48		1			1			1											
	48	47																		
10+05.741 -Y2REV-	49																			
47+79.775 -L-																				
48+28.472 -L-																				
48+95.995 -L-	50		1			1			1											
SHEET TOTAL			19	1.320		17		8	9		2	2			1					

STATION	FROM	TO	SLOTTED DRAIN 300mm DIA PIPE (SEE DETAIL SHT 2-S)	1200mm WELDED STEEL PIPE		900mm HIGH DENSITY POLYETHYLENE PIPE	900mm HIGH DENSITY POLYETHYLENE PIPE ELBOWS NO. & SIZE			450 X 450 X 375mm CONC. TEE	375 X 375 X 375mm CONC. TEE		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
10+53.229 -Y1-	27																
10+73.456 -Y1-	28																
	27	28															
10+87.496 -Y1-	28	29											1@400				OUTLET PIPE, CL 'B' RIP RAP REQ'D
10+73.456 -Y1-	30																
	30	28															
10+33.002 -Y1-	31																
	31	30															
43+19.173 -L-	32																
	32	31															
43+26.170 -L-	33																
	33	32															
46+21.435 -L-	34	33	300mm @ 395														
43+79.692 -L-	34A																REMOVE EX. PIPE
43+01.603 -L-	35																
43+17.527 -L-	36																
	36	35															
43+19.989 -L-	37																
	37	36															
43+06.841 -L-																10.637	750mm CMP
43+13.507 -L-																3.000	PARTIAL REMOVAL 750mm CMP
43+28.248 -L-																24.516	300mm PVC
43+99.967 -L-	38																
	38	37															
44+04.607 -L-																11.183	300mm CONC.
44+22.421 -L-																14.001	300mm CONC.
44+48.298 -L-																11.874	450mm CMP
44+51.187 -L-																6.414	300mm CONC.
44+67.892 -L-	39																
	39	38															
45+63.389 -L-	40																
	40	39															
46+99.869 -L-	41																
47+27.446 -L-	42																
	41	42															
47+88.376 -L-	43																
	42	43															
47+80.080 -L-	44																
	44	43															
47+80.080 -L-	45	44															INLET PIPE
47+91.350 -L-	43	46											1@450				OUTLET PIPE, CL 'B' RIP RAP REQ'D
48+17.864 -L-	47																
	47	43															
48+54.948 -L-	48																
	48	47															
10+05.741 -Y2REV-	49																CROSSPIPE
47+79.775 -L-																18.770	450mm CMP
48+28.472 -L-																15.070	300mm CMP
48+95.995 -L-	50																
SHEET TOTAL			300@395										1@400 1@450			115.465	

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