COMPUTED BY:	ITY	DATE:	10/6/2014
CHECKED BY:	KDA	DATE:	1/7/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5136	3D-1

RD2694/04

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300-5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

STATION	LOCATION (LT, RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE	THICKNESS OR GAUGE	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE SIZE	THICKNESS OR GAUGE	R.C. PIPE CLASS III SIZE	R.C. PIPE CLASS IV SIZE	** " R.C. PIPE (CLASS V)	**** RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	ENDWALLS CU. YARDS C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES "TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL. 'B') PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION (EACH) DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	G.D.I. TYPE "B" STD. 840.18 OR 840.27	T. B. G. D. I. STD. 840.35 OR 840.36	J.B. STD. 840.31 OR 840.32	M.H. FRAME AND COVER STD. 840.54	CONVERT DI TO C.B. (SEE DETAIL SHEET 2C-1)	T.B.J.B. STD. 840.34	TEMPORARY STEEL PLATE (SEE DETAIL SHEET 2C-2)	FLOWABLE FILL (CUBIC YARDS)	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L-																																																						
		401	402		668.3	666											16'																																		
13+58.00	RT	402		669																						1			1			1																			
		402	413		666												92'																																		
12+66.58	RT	413																																																		0.399		Collar & Extend & Tie To Existing 15"
14+25.09	RT																																																				102'	Remove Exist 24" RCP
18+00.00	RT	404		692.13	689.13																					1			1			1																					
		404	405		689.13	678.24											216'																																		77'	Remove Exist 24" RCP
15+82.00	RT	405		681.24																						1	0.04		1			1																					
		405	406		676.2	676.12												4'																																		
15+80.87	RT	406																																																	0.4465		Collar & Extend & Tie To Existing 18" RCP
15+74.76	CL	412		681.55																						1								1						1		1	1									
15+85.94	CL																																												1.00				0.09			Plug & Fill Exist 15" RCP/Rem Exist DI
17+55.51	CL																																												14.26				0.09			Plug & Fill Exist 15" RCP/Rem Exist DI
-DET- 8+09.50	LT	T015		664.1																						1												1														Temp. Detour phase
		T015	T016		661.08	660.9		56																																												56'	REMOVE TEMP PIPE
14+00.00	LT	409		671.6																						1										1	1																Temp. Detour phase
		409	T015		668.6	661.08		88																																												88'	REMOVE TEMP PIPE
14+00.00	LT	409		671.6																										1										1													
		409	410		668.6	661											128'																																			
12+80.13	LT	410		664																						1			1			1																					
		410	411		661	660.9											24'																																			
15+66.08	LT	408																								1										1	1																Temp. Detour phase
15+66.08	LT	408		679.81	672.8																									1										1													
		408	414		675	681.72											108'																																			
16+74.89	LT	414																								1										1	1																Temp. Detour phase
16+74.89	LT	414		685.92																										1										1													
		414	407		681.72	686.5											112'																																			
17+86.12	LT	407		691.36																						1			1			1											1									STEEL PLATE DURING TEMP DETOUR PHASE
		407	513		686.5	692.76											260'																																			
23+67.45	RT	501		705.97																						1	0.97		1			1																					
		501	502		700	698.5											40'																																			
23+67.45	RT	T010																																															0.045			TEMP. PLUG DURING PHASE CONST.
25+30.00	RT	T013		702.2																						1												1															
		501	T013		700	699.18											164'																												7.45							TO BE FILLED IN FINAL PHASE
27+41.00	RT	T014		701.12																						1												1															
		T013	T014		699.18	698.1											216'																												9.81							TO BE FILLED IN FINAL PHASE
		T014	512		698.1	695.49											52'																												2.18							TO BE FILLED IN FINAL PHASE
23+78.05		T011																																															0.045			TEMP. PLUG DURING PHASE CONST.
23+67.35	RT	502		706.62																						1	3.12		1			1			1								1									
		502	503		698.5	697.5											160'																																			
25+30.28	RT	503		704.66																						1	2.16		1			1			1								1									
		503	512		697.5	697										208'																																			160'	Remove Exist 15"RCP & DI
25+84.00	RT	T004																																															0.045			TEMP. PLUG
28+00.00	CL	504		700.65																						1	0.65		1			1			1								1									
		512	504		695.49	695										56'																																			
SHEET TOTALS								144								264'	1588'	4'								16	6.94		9		9	3	1	3		3	3		3	1	3	1	5		34.7				0.315	1'	483'	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	(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