COMPUTED BY:	RWP	DATE:	2/18/2014
CHECKED BY:	RSW	DATE:	6/24/2014

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".

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2603	3D-3

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

STATION / SIZE / THICKNESS OR GAUGE	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) 12"	15"	18"	24"	30"	36"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE 15" .064	18" .064	24" .064	36" .079	42" .109	48" .109	R.C. PIPE CLASS III 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 15"	18"	24"	30"	36"	42"	48"	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.	C.S.P.	QUANTITIES FOR MASONRY 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'	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 DROP INLET	CATCH BASIN	O.T.C.B. STD. 840.04 OR 840.05	D.I. STD. 840.14 OR 840.15	D.I. FRAME & GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35 (FOR CAST IRON FRAME & GRATES)		DRIVEWAY DROP INLET, STD. 840.30				G.D.I. (N.S.) FRAME WITH SAG GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO SAG GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH SAG GRATE STD. 840.29	G.D.I. (N.S.) FRAME WITH TWO FLAT GRATES STD. 840.29	FRAME WITH GRATES, DRIVEWAY DROP INLET, STD. 840.30	MANHOLE FRAME AND COVER STD. 840.54	TEMPORARY 1" STEEL COVER (SEE DETAIL ON SHEET 2C-10)	PREFORMED SCOUR HOLE		BERM DRAINAGE OUTLET (SY) STD. 850.10 OR 850.11	CONVERT EXIST. D.I. TO J.B. w / MH (SEE DETAIL ON SHEET 2C-4)			ADJUST EXIST. C.B.	ADJUST EXIST. D.I.	FLOWABLE FILL (CY)	CORR. STEEL PIPE ELBOWS - NO. & SIZE (INCHES)	DRAINAGE PIPE ELBOWS - NO. & SIZE (INCHES)	CONC. & BRICK PIPE PLUG (C.Y.) STD. 840.71	CONC. COLLARS CL. "B" (C.Y.) STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
-L- 43+38	RT	0618		1077.8	1074.0																																							1			1			1																																					
		0618	0616		1074.0	1073.1																			76																																																														80	REM 2-18"
-L- 43+38	RT	0645		1077.2	1074.2																																							1			1	1																																						
		0645	0618		1074.2	1074.0			16																																																																																
-L- 44+14	RT	0616		1077.3	1073.1																																							1			1	1																																						
-L- 44+22 (OUT)	RT	0616	0644		1073.1	1073.0				8																																																																																	
-L- 42+00	LT	0624		1078.2	1075.4																																							1			1			1																																					
		0624	0620		1075.4	1075.2																		100																																																															56	REM 2-15";1-18"
-L- 42+89	LT	0619		1079.2	1076.4																																							1													1													1																				
		0619	0620		1076.4	1074.6			28																																																																																
-L- 43+01	LT	0620		1077.6	1074.6																																							1			1	1																																						
		0620	0621		1074.6	1070.0																		72																																																															23	REM 12"
-L- 43+74	LT	0621		1078.1	1070.0																																																																		1				1										15	REM 15"
-L- 44+00	LT	0623		1078.2	1075.2																																							1			1		1																																						
		0623	0622		1075.2	1073.5			16					X																																																																									
-L- 44+01	LT	0622		1077.5	1073.5																																							1												1											1	1																						
		0622	0621		1073.5	1072.0			28																																																																																
-L- 47+26	RT	0632		1085.8	1083.0																																							1													1													1																				
		0632	0631		1083.0	1082.7			20																																																																																
-L- 47+25	RT	0631		1086.0	1082.7																																							1			1			1																																					
		0631	0628		1082.7	1078.8																		124																																																																
-L- 46+04	RT	0627		1083.9	1080.9																																							1													1													1																				
		0627	0628		1080.9	1078.8			20																																																																																
-L- 46+00	LT	0630		1082.1	1079.3																																							1													1											1																					
		0630	0629		1079.3	1079.1			12																																																																																	
-L- 46+00	LT	0629		1082.3	1079.1																																							1			1		1																																						
		0629	0628		1079.1	1078.8																		60																																																																
-L- 46+00	RT	0628		1082.3	1078.8																																							1			1			1																																					
		0628	0626		1078.8	1075.4																			164																																																														
-L- 44+35	RT	0626		1078.6	1075.1																																							1			1			1																																					
-L- 44+26 (OUT)	RT	0626	0625		1075.1	1073.4				20																																																																																
NOT USED		0633	0634																																																																																					
-Y6- 10+71	LT	0635		1093.2	1088.9																																							1			1			1																																				6	REM 6' OF EX. 30"
		0635	0636		1088.9	1088.6																					40																																																														
-Y6- 10+78	RT	0636		1092.8	1088.6																																							1												1														1																				
		0636	0637		1088.6	1084.4																					60																																																													71	REM 15"
-Y6- 11+39	RT	0637		1088.6	1084.4																																							1			1		1																																						
		0637	0639		1084.4	1084.0																					124																																																													293	REM 15", 24", & 30"
-L- 48+81(IN)	LT	0638	0639		1092.8	1088.0			12					X																																																													11													
-L- 48+81	LT	0639		1092.0	1084.0																																							1	3.0														1												1																		
		0639	0640		1084.0	1083.8						20		X																																																																												
-L- 49+10 (IN)	LT	0643	0640		1092.2	1085.1			20																																																																					11													
-L- 49+00	LT	0640		1091.1	1084.1																																							1	2.0		1		1																																						
		0640	0641		1084.1	1079.4																					60																																																													44	REM 15"
-L- 49+00	RT	0641		1098.1	1084.1																																							1	5.0	4.0	1			1																																					
-L- 49+18 (OUT)	RT	0641	0642		1084.1	1079.4						40																																																																													155	REM 2-30"
-Y7- 13+55	RT	0703		1095.0	1092.2																																							1													1											1																					
		0703	0702		1092.2	1091.9																		56																																																																	
-Y7- 13+50	LT	0704		1095.6	1092.8																																							1													1											1																			36	REM 15"
		0704	0702		1092.8	1091.9																		56																																																																
-Y7- 13+96	RT	0702		1095.2	1091.9																																							1			1	1																																						
		0702	0701		1091.9	1090.7			52																																																																																
-L- 51+50	LT	0701		1095.7	1090.7																																							1			1		1																																						
		0701	0640		1090.7	1085.1																		248																																																																		
-L- 53+71	RT	0706		1097.1	1094.3																																							1													1													1															0.065		67	REM 18" TO R/W
		0706	0707		1094.3	1091.3																		96																																																																	
-L- 54+00	LT	0707		1094.3	1091.3																																							1			1			1																																					
		0707	0708		1091.3	1085.9																		244																																																																	
SHEET TOTALS									224	28		60												1056	240		284																	27	10.0	4.0	17	4	5	8						2	7		1								1	4		5		2				22	1								0.065		846	

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.)	GRATED 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 JUNCTION BOX

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