COMPUTED BY:	GSBLELL	DATE:	3/29/2012
CHECKED BY:	AJFOSTER	DATE:	4/16/2014

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2519B	3D-19

R0265428

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	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE	12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	C.S. PIPE SIZE	12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS III SIZE	12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV SIZE	12"	15"	18"	24"	30"	36"	42"	48"
								THICKNESS OR GAUGE													.064	.054	.064	.064	.079	.079	.109	.109																		
-L- STA. 377+95.77	LT	3005	3006		2823.05	2822.89																							56'																	
-L- STA. 377+88.81	CL	3006		2833.50																																										
-L- STA. 377+79.69	RT	3006	3007		2822.89	2821.20																							68'																	
-L- STA. 377+69.98	RT	3007		2827.17																																										
-L- STA. 377+61.82	RT	3007	3008		2820.70	2809.80																			40'																					
-L- STA. 378+35.33	RT	3011	3007		2831.06	2821.20							124'																																	
-L- STA. 378+26.28	LT	3010	3005		2831.17	2823.05							48'																																	
-L- STA. 378+50	LT	3010		2836.47																																										
-L- STA. 378+51	LT	3009	3010		2838.70	2831.17																			28'																					
-L- STA. 379+36	LT	3013	3010		2841.55	2831.67						180'																																		
-L- STA. 380+22	LT	3013		2847.50																																										
-L- STA. 380+22	LT	3012	3013		2841.72	2841.55						40'																																		
-L- STA. 381+50	LT	3014		2855.60																																										
-L- STA. 381+50	LT	3014	3015		2851.60	2851.40																																					48'			
-L- STA. 381+50	CL	3015		2856.65																																										
-L- STA. 381+50	RT	3015	3016		2851.40	2849.66																																					48'			
-L- STA. 381+50	RT	3016		2853.66																																										
-L- STA. 381+50	RT	3016	3017		2849.66	2837.96																			56'																					
-L- STA. 384+00	LT	3020		2870.17																																										
-L- STA. 382+73.21	LT	3020	3014		2866.67	2852.10						256'																																		
-L- STA. 385+11.26	LT	3101	3020		2877.57	2867.42			200'																																					
-L- STA. 384+23.39	RT	3018		2842.45																																										
-L- STA. 384+00.91	RT	3018	3019		2837.21	2830.00						80'																																		
SHEET 31																																														
-L- STA. 386+00	LT	3101		2880.37																																										
-L- STA. 386+00	CL	3102		2883.78																																										
-L- STA. 386+00	LT	3102	3101		2880.00	2877.57																																	68'							
-L- STA. 386+24.95	LT	3103	3101		2879.57	2877.57			48'																																					
-L- STA. 386+50	LT	3103		2882.37																																										
-L- STA. 387+94.28	LT	3104							28'																																					
-L- STA. 389+00	LT	3105		2889.85																																										
-L- STA. 389+00	LT	3105	3106		2887.05	2886.21																									64'															
-L- STA. 389+00	CL	3106		2895.34																																										
-L- STA. 388+92.34	RT	3106	3107		2885.96	2885.61																																		52'						
-L- STA. 388+85	RT	3107		2893.63																																										
-L- STA. 388+62.5	RT	3107	3108		2885.61	2865.49																	64'																							
-L- STA. 389+01.42	CL																																													
-L- STA. 389+67.73	CL																																													
-L- STA. 390.+31.72	CL																																													
-L- STA. 391+00	LT	3109		2895.96																																										
-L- STA. 390+00	LT	3109	3105		2893.16	2887.05			188'																																					
-L- STA. 392+00	CL	3110		2904.42																																										
-L- STA. 390+50	CL	3110	3106		2900.67	2886.21																																	300'							
-L- STA. 393+02.38	RT	3111							48'																																					
-L- STA. 397+09.63	LT	3112							24'																																					
-L- STA. 397+75.17	LT	3113	3114		2898.27	2893.45																							72'																	
-L- STA. 397+85	CL	3114		2904.81																																										
-L- STA. 397+85	RT	3114	3115		2893.45	2893.30																							32'																	
-L- STA. 397+85	RT	3115		2905.13																																										
-L- STA. 397+85	RT	3115	3116		2893.30	2791.34																		212'																						
-L- STA. 397+81.75	RT																																													
SHEET TOTALS									536'			556'	172'										64'	212'	84'	40'				64'			104'	124'				368'	52'		96'					

STATION	36" R.C. PIPE (CLASS V)	42" R.C. PIPE (CLASS V)	30" WELDED PIPE, .500" THICK, GRADE B	36" WELDED PIPE, .500" THICK, GRADE B	42" WELDED PIPE, .625" THICK, GRADE B	48" WELDED PIPE, .625" THICK, GRADE B	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 PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. A + (1.3 X COL. B)	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE 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	SPRING BOX STD. 840.41	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.G.D.I. STD. 840.35	T.B.J.B. STD. 840.34	J.B. STD. 840.31 OR 840.32	PARALLEL PIPE END SECTION STD. 310.02 OR 310.04	M.H. FRAME AND COVER STD. 840.54	OT CATCH BASIN OR STD. 840/D04 (SHEET 2C-10)	PREFORMED SCOUR HOLE	FLOWABLE FILL	J.B. STD. 840.52	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	GS 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- STA. 377+95.77																																											
-L- STA. 377+88.81									1	5	0.61	1			1																											
-L- STA. 377+79.69																																											
-L- STA. 377+69.98									1	0.97										1				1																			
-L- STA. 377+61.82																																									2@36"		
-L- STA. 378+35.33																																											
-L- STA. 378+26.28																																											
-L- STA. 378+50									1	0.3											1			1																			
-L- STA. 378+51																																				8						PLUG /FILL EXIST. 15" CMP W/FLOWEBLE MAT'L
-L- STA. 379+36																																											
-L- STA. 380+22									1	0.95											1			1																			
-L- STA. 380+22																																				20							
-L- STA. 381+50									1											1				1																			
-L- STA. 381+50																																											
-L- STA. 381+50									1	0.25		1			1																											
-L- STA. 381+50																																											
-L- STA. 381+50									1												1			1																			
-L- STA. 381+50																																											
-L- STA. 384+00									1											1				1																			
-L- STA. 382+73.21																																											
-L- STA. 385+11.26																																											
-L- STA. 384+23.39									1	0.24																						1											
-L- STA. 384+00.91																																											REMOVE EXIST. 24" CM PIPE
SHEET 31																																											
-L- STA. 386+00									1												1			1																			
-L- STA. 386+00									1			1			1																											
-L- STA. 386+00																																											
-L- STA. 386+24.95																																				1							
-L- STA. 386+50									1												1			1																			
-L- STA. 387+94.28																																											
-L- STA. 389+00									1												1			1																			
-L- STA. 389+00																																											
-L- STA. 389+00									1	4.38		1			1																											
-L- STA. 388+92.34																																											
-L- STA. 388+85									1	3.02											1			1																			
-L- STA. 388+62.5																																				11				2@18"			
-L- STA. 389+01.42																																											PLUG /FILL EXIST. 18" CMP W/FLOWEBLE MAT'L
-L- STA. 389+67.73																																				8							REMOVE EXIST. HW
-L- STA. 390.+31.72																																				1							PLUG & FILL EXIST. 15" CM PIPE
-L- STA. 391+00									1												1			1																			
-L- STA. 390+00																																											
-L- STA. 392+00									1			1			1																											
-L- STA. 390+50																																											
-L- STA. 393+02.38																																1											
-L- STA. 397+09.63																																											
-L- STA. 397+75.17							1.512																																			65'	REMOVE EXIST. 24" CM PIPE
-L- STA. 397+85									1	5.00	1.36	1			1																											
-L- STA. 397+85																																											
-L- STA. 397+85									1	5.00	1.83																					1		1									
-L- STA. 397+85																																								2@24"			USE ROD & LUG CONNECTORS
-L- STA. 397+81.75																																										20'	REMOVE EXIST. 15" CM PIPE
SHEET TOTALS							1.512'		19	25.11	3.80	6		3	3					3	8			11							2	1	1			49			2@18",2@24",2@36"			85'	

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