COMPUTED BY: GSBLELL	DATE: 3/29/2012	PROJECT NO.	SHEET NO.
CHECKED BY: AJFOSTER	DATE: 3/6/2014	R-2519B	3D-3

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

R0206410

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" THICKNESS OR GAUGE	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
-L- STA. 56+04	LT	0718	0719		2485.17	2469.80													
-L- STA. 56+05	LT	0719	0720		2469.80	2469.70													
-L- STA. 60+00	LT	0717		2530.34															
-L- STA. 58+57	LT	0717	0718		2521.00	2497.70													
-L- STA. 62+50	LT	0715		2538.25															
-L- STA. 61+26	LT	0715	0717		2535.25	2521.00													
-L- STA. 62+50	LT	0716	0715		2543.89	2535.50													
-L- STA. 64+50	LT	0714		2545.05															
-L- STA. 63+50	LT	0714	0715		2542.30	2535.50													
-L- STA. 64+50	LT	0713		2463.70															
-L- STA. 64+50	LT	0713	0714		2461.60	2542.30			48'										
-L- STA. 64+50	CL	0712		2547.47															
-L- STA. 64+50	LT	0712	0714		2543.23	2542.30			52'										
-L- STA. 65+50	CL	0711		2549.11															
-L- STA. 60+62	CL	0711	0712		2545.70	2543.23													
-L- STA. 65+01	RT	0721								112'							X	X	X
-L- STA. 57+24.4	CL	0723		2511.09															
-L- STA. 57+24.5	LT	0723	0718		2506.09	2496.60													
-L- STA. 60+75	CL	0722		2534.49															
-L- STA. 60+75	LT	0722	0717		2530.25	2521.00													
SHEET 8																			
-L- STA. 70+88	RT	0801							28'										
-L- STA. 71+54	RT	0802							20'										
-L- STA. 71+50	CL	0804		2539.25															
-L- STA. 71+50	RT	0803	0804		2529.68	2529.41													
-L- STA. 71+50	LT	0805		2535.00															
-L- STA. 71+50	LT	0804	0805		2529.41	2528.97													
-L- STA. 72+12	LT	0805	0806		2528.97	2514.00													
-L- STA. 72+50	RT	0807		2529.61															
-L- STA. 75+00	RT	0808		2514.49															
-L- STA. 73+00	RT	0807	0817		2526.61	2521.22													
-L- STA. 73+51	RT	0817		2524.22															
-L- STA. 74+05.62	RT	0817	0808		2521.22	2511.49				144'									
-L- STA. 76+50	RT	0809		2503.55															
-L- STA. 75+75	RT	0808	0809		2511.49	2500.55				144'									
-L- STA. 77+00	RT	0810		2481.52															
-L- STA. 76+75	RT	0809	0810		2500.55	2477.70													
-L- STA. 76+61	RT	0811	0810		2481.25	2477.70			96'										
-L- STA. 77+77	RT	0810	0902		2477.70	2456.00													
-L- STA. 75+81	LT	0813							40'								X	X	X
-L- STA. 77+16	LT	0814							28'								X	X	X
-L- STA. 76+50	CL	0812		2508.70															
-L- STA. 79+55	CL	0914		2492.10															
-L- STA. 78+02	CL	0812	0914		2503.70	2488.50													
-D3- STA. 14+30	CL	0815							36'										
-L- STA. 71+07	LT	0816							28'										
SHEET 9																			
-L- STA. 79+16	RT	0902	0901		2456.00	2453.50													
-L- STA. 78+53	RT	0902		2464.00															
-L- STA. 79+34	RT	0906		2490.58															
-Y8- STA. 11+10	RT	0907		2485.85															
-Y8- STA. 10+90	RT	0906	0907		2486.58	2481.85													
SHEET TOTALS									376'	400'									

STATION	C.S. PIPE 12" THICKNESS OR GAUGE	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS III 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 12"	15"	18"	24"	30"	36"	42"	48"
-L- STA. 56+04																208'								
-L- STA. 56+05																16'								
-L- STA. 60+00																								
-L- STA. 58+57											348'													
-L- STA. 62+50																								
-L- STA. 61+26										176'														
-L- STA. 62+50		28'																						
-L- STA. 64+50																								
-L- STA. 63+50										200'														
-L- STA. 64+50																								
-L- STA. 64+50																								
-L- STA. 64+50																								
-L- STA. 64+50																								
-L- STA. 65+50																								
-L- STA. 60+62																		100'						
-L- STA. 65+01																								
-L- STA. 57+24.4																								
-L- STA. 57+24.5	68'																							
-L- STA. 60+75																								
-L- STA. 60+75																		60'						
SHEET 8																								
-L- STA. 70+88																								
-L- STA. 71+54																								
-L- STA. 71+50																								
-L- STA. 71+50											80'													
-L- STA. 71+50																								
-L- STA. 71+50											68'													
-L- STA. 72+12	104'																							
-L- STA. 72+50																								
-L- STA. 75+00																								
-L- STA. 73+00																		96'						
-L- STA. 73+51																								
-L- STA. 74+05.62																								
-L- STA. 76+50																								
-L- STA. 75+75																								
-L- STA. 77+00																								
-L- STA. 76+75	56'																							
-L- STA. 76+61																								
-L- STA. 77+77	148'																							
-L- STA. 75+81																								
-L- STA. 77+16																								
-L- STA. 76+50																								
-L- STA. 79+55																								
-L- STA. 78+02																		304'						
-D3- STA. 14+30											24'													
-L- STA. 71+07																								
SHEET 9																								
-L- STA. 79+16				24'																				
-L- STA. 78+53																								
-L- STA. 79+34																								
-Y8- STA. 11+10																								
-Y8- STA. 10+90																		52'						
SHEET TOTALS	96'	308'	24'						376'	496'	24'					224'		516'	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.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B") 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	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. 840D04 (SHEET 2C-10)	PREFORMED SCOUR HOLE	FLOWABLE FILL	J.B. STD. 840.52	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	CS 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. 56+04																																											
-L- STA. 56+05																																											
-L- STA. 60+00									1	4.39												1			1																
-L- STA. 58+57																																											
-L- STA. 62+50									1													1			1																		
-L- STA. 61+26																																											
-L- STA. 62+50																																							2@15"				
-L- STA. 64+50									1													1			1																		
-L- STA. 63+50																																									100'	REMOVE 12" CM PIPE
-L- STA. 64+50									1																										1							
-L- STA. 64+50																																							2@15"				
-L- STA. 64+50									1			1			1			1																									
-L- STA. 64+50																																											
-L- STA. 65+50									1			1			1			1																									
-L- STA. 60+62																																											
-L- STA. 65+01																																	1										
-L- STA. 57+24.4									1																								1		1								
-L- STA. 57+24.5																																											
-L- STA. 60+75									1																								1		1								
-L- STA. 60+75																																											
SHEET 8																																											
-L- STA. 70+88																																											
-L- STA. 71+54																																											
-L- STA. 71+50									1	4.84		1		1				1																									
-L- STA. 71+50																																											
-L- STA. 71+50									1	1.03												1			1																		
-L- STA. 71+50																																											PLUG EXIST. 24" CM PIPE
-L- STA. 72+12																																				12							
-L- STA. 72+50									1												1				1											8		1					3GI
-L- STA. 75+00									1													1			1											7							
-L- STA. 73+00																																									48'	REMOVE 18" CM PIPE
-L- STA. 73+51									1													1			1																		
-L- STA. 74+05.62																																											
-L- STA. 76+50									1													1			1																		
-L- STA. 75+75																																											
-L- STA. 77+00									1													1			1																		
-L- STA. 76+75																																											
-L- STA. 76+61																																											
-L- STA. 77+77																																											
-L- STA. 75+81																																	1										
-L- STA. 77+16																																											
-L- STA. 76+50									1			1			1			1																									
-L- STA. 79+55									1							1			1	1																							
-L- STA. 78+02																																											
-D3- STA. 14+30																																											
-L- STA. 71+07																																											
SHEET 9																																											
-L- STA. 79+16																																											
-L- STA. 78+53									1	3																								1				1					
-L- STA. 79+34									1																				1	1													
-Y8- STA. 11+10									1																				1	1													
-Y8- STA. 10+90																																											
SHEET TOTALS									20	13.26		4		2	2	1	4	1	1	1	8			9	2	2		2	2	3	1		27	1	1	4@15"			148'	

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