RD266410

COMPUTED BY: GSBLELL DATE: 3/29/2012

CHECKED BY: AJFOSTER DATE: 4/8/2014

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2519B	3D-16

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) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
-Y30- STA. 12+80	CL	2610	2611		2636.79	2633.25													
-Y30- STA. 12+80	LT	2611		2638.50															
-Y30- STA. 12+62.78	LT	2609	2611		2636.45	2634.50			28'										
-Y30- STA. 12+54.48	LT	2611	2612		2633.25	2625.16						104'							
-L- STA. 317+12.56	LT	2614	2613		2617.48	2617.45													
-L- STA. 317+14.29	LT	2614		2622.48															
-L- STA. 316+90.49	RT	2615		2644.99															
-L- STA. 317+02.24	RT	2615	2614		2640.75	2617.48													
-L- STA. 316+70.11	RT	2616	2615		2624.00	2640.75													
-L- STA. 318+50	RT	2617		2636.96															
-L- STA. 318+50	RT	2617	2618		2633.96	2624.89													
-L- STA. 319+62.49	RT	2619			2623.19	2612.00			28'										
-L- STA. 326+20	CL	2631		2628.68															
-L- STA. 325+83	CL	2631	2620		2624.44	2623.24			92'										
-L- STA. 325+00	CL	2620		2626.99															
-L- STA. 325+31	CL	2620	2621		2623.24	2622.66													
-L- STA. 324+70	CL	2621		2626.41															
-L- STA. 324+70	CL	2621	2622		2622.66	2619.50													
-L- STA. 321+28.91	CL																		
-L- STA. 323+15	RT																		
-L- STA. 321+36	RT																		
-L- STA. 327+50	LT	2623		2631.22															
-L- STA. 327+24	LT	2623	2624		2629.30	2627.65			52'										
-L- STA. 327+76	LT																		
-L- STA. 327+77	CL																		
-L- STA. 328+00	CL	2625		2633.30															
-L- STA. 328+05	RT	2626		2631.07															
-L- STA. 328+02.51	RT	2625	2626		2629.06	2628.32													
-L- STA. 329+35	RT	2627		2634.80															
-L- STA. 328+70	RT	2627	2626		2632.00	2628.32			128'										
-L- STA. 327+78	RT	2626	2628		2628.32	2627.65			52'										
-L- STA. 329+17	CL																		
SHEET 27																			
-L- STA. 331+35	RT	2702		2639.35															
-L- STA. 331+24.45	RT	2701		2660.85															
-L- STA. 331+30.46	RT	2701	2702		2658.10	2636.55													
-L- STA. 330+87.73	RT	2702	2627		2636.55	2632.00			200'										
-L- STA. 330+89	CL																		
-L- STA. 331+60	CL	2703		2643.31															
-L- STA. 331+61	LT	2703	2704		2638.95	2639.59													
-L- STA. 331+81	LT																		
-L- STA. 332+55	LT																		
-DR31- STA. 11+25	RT	2705		2664.42															
-L- STA. 336+09.92	RT	2706		2651.96															
-L- STA. 336+09.93	RT	2705	2706		2661.67	2649.21													
-L- STA. 335+79.95	RT	2706	2708		2649.43	2647.80			56'										
-L- STA. 335+37	RT	2708		2650.56															
-L- STA. 335+41.41	RT	2707		2654.50															
-L- STA. 335+50	RT	2707	2708		2651.50	2647.56													
-L- STA. 335+08.5	RT	2708	2709		2647.06	2643.45					80'								
-L- STA. 334+67.00	RT	2709		2648.20															
-L- STA. 334+67.00	CL	2724		2651.94															
-L- STA. 334+67.00	RT	2709	2724		2643.45	2647.70													
-L- STA. 334+67.0	LT	2724	2710		2647.70	2642.90													
-L- STA. 334+66.87	LT	2710		2646.40															
-L- STA. 334+75.27	LT	2710	2711		2642.90	2638.05					148'								
-L- STA. 334+82.11	LT	2711		2642.11															
-L- STA. 334+75.59	LT	2711	2712		2638.05	2638.00					8'								
SHEET TOTALS									636'		236'	104'							

STATION	C.S. PIPE 12" (.064)	15" (.064)	18" (.064)	24" (.064)	30" (.079)	36" (.079)	42" (.109)	48" (.109)	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"	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
-Y30- STA. 12+80					36'																									
-Y30- STA. 12+80																														
-Y30- STA. 12+62.78																														
-Y30- STA. 12+54.48																														
-L- STA. 317+12.56																					12'									
-L- STA. 317+14.29																														
-L- STA. 316+90.49																														
-L- STA. 317+02.24																											116'			
-L- STA. 316+70.11																					76'									
-L- STA. 318+50																														
-L- STA. 318+50		32'																												
-L- STA. 319+62.49																														
-L- STA. 326+20																														
-L- STA. 325+83																														
-L- STA. 325+00																														
-L- STA. 325+31																		56'												
-L- STA. 324+70																														
-L- STA. 324+70																		52'												
-L- STA. 321+28.91																														
-L- STA. 323+15																														
-L- STA. 321+36																														
-L- STA. 327+50																														
-L- STA. 327+24																														
-L- STA. 327+76																														
-L- STA. 327+77																														
-L- STA. 328+00																														
-L- STA. 328+05																														
-L- STA. 328+02.51																		48'												
-L- STA. 329+35																														
-L- STA. 328+70																														
-L- STA. 327+78																														
-L- STA. 329+17																														
SHEET 27																														
-L- STA. 331+35																														
-L- STA. 331+24.45																														
-L- STA. 331+30.46		48'																												
-L- STA. 330+87.73																														
-L- STA. 330+89																														
-L- STA. 331+60																														
-L- STA. 331+61																		48'												
-L- STA. 331+81																														
-L- STA. 332+55																														
-DR31- STA. 11+25																														
-L- STA. 336+09.92																														
-L- STA. 336+09.93		48'																												
-L- STA. 335+79.95																														
-L- STA. 335+37																														
-L- STA. 335+41.41																														
-L- STA. 335+50			24'																											
-L- STA. 335+08.5																														
-L- STA. 334+67.00																														
-L- STA. 334+67.00																														
-L- STA. 334+67.00												58'																		
-L- STA. 334+67.0												64'																		
-L- STA. 334+66.87																														
-L- STA. 334+75.27																														
-L- STA. 334+82.11																														
-L- STA. 334+75.59																														
SHEET TOTALS		128'	24'		36'							122'						204'			88'						116'			

STATION	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
-Y30- STA. 12+80																																		
-Y30- STA. 12+80			1	0.25																		1		1										
-Y30- STA. 12+62.78																																		
-Y30- STA. 12+54.48	2.000																																138	REMOVE EXIST. 30" RC PIPE
-L- STA. 317+12.56																																0.656		
-L- STA. 317+14.29			1																			1		1										
-L- STA. 316+90.49			1																		1													
-L- STA. 317+02.24																																		FILL WITH FLOWABLE MAT'L
-L- STA. 316+70.11																																		
-L- STA. 318+50			1												1				1															
-L- STA. 318+50																																		
-L- STA. 319+62.49	0.732																													2@15"				
-L- STA. 326+20			1			1			1		1																							
-L- STA. 325+83																																		
-L- STA. 325+00			1							1		1	1																					
-L- STA. 325+31																																		
-L- STA. 324+70			1							1		1	1																					
-L- STA. 324+70																										1								REMOVE STRUCTURE
-L- STA. 321+28.91																																	15	REMOVE EXIST. 15" CM PIPE
-L- STA. 323+15																											21							PLUG & FILL EXIST. 72" CM PIPE
-L- STA. 321+36																											21							PLUG & FILL EXIST. 72" CM PIPE
-L- STA. 327+50			1													1			1															
-L- STA. 327+24																																		
-L- STA. 327+76																																	31	REMOVE EXIST. 18" CM PIPE & HW
-L- STA. 327+77																																	41	REMOVE EXIST. 15" CM PIPE & DI
-L- STA. 328+00			1			1		1			1																							
-L- STA. 328+05			1												1			1																
-L- STA. 328+02.51																																		
-L- STA. 329+35			1												1			1																
-L- STA. 328+70																																		
-L- STA. 327+78																																		
-L- STA. 329+17																																	19	REMOVE EXIST. 12" RC PIPE
SHEET 27																																		
-L- STA. 331+35			1												1			1																
-L- STA. 331+24.45			1												1			1																
-L- STA. 331+30.46																														2@15"				
-L- STA. 330+87.73																																		
-L- STA. 330+89																											3							PLUG & FILL EXIST. 15" CMP, REMOVE HW
-L- STA. 331+60			1			1			1		1																						49	REMOVE EXIST. 12" RC PIPE
-L- STA. 331+61																																		
-L- STA. 331+81																											12				0.116			PLUG EXIST. 24" CM PIPE & REMOVE DI
-L- STA. 332+55																											12							PLUG & FILL EXIST. 24" CMP, REMOVE HW
-DR31- STA. 11+25			1												1			1																
-L- STA. 336+09.92			1												1			1																
-L- STA. 336+09.93																														2@15"				
-L- STA. 335+79.95																																		
-L- STA. 335+37			1												1			1																
-L- STA. 335+41.41			1												1			1																
-L- STA. 335+50																														2@18"				
-L- STA. 335+08.5																																		
-L- STA. 334+67.00			1												1			1																
-L- STA. 334+67.00			1																			1		1										
-L- STA. 334+67.00																																		
-L- STA. 334+67.0																																		
-L- STA. 334+66.87			1												1			1									4							PLUG EXIST. 18" CMP, REMOVE DI & HW
-L- STA. 334+75.27																											4							PLUG EXIST. 18" CMP
-L- STA. 334+82.11			1																			1												
-L- STA. 334+75.59																																		
SHEET TOTALS	2.732		22	0.25		3		1	2	2	3	2	2		11	1		10	2		1	4		3		1	77			6@15",2@18"	0.116	0.656	293	

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