RD248621

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2514D	3D-2

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
-Y3LPA- 11+26	LT	0647		46.50															
-Y3LPA- 11+26	LT	0647	0648		43.30	23.62			92							X			
-Y3LPA- 13+74	RT																		
-Y3LPA- 14+36	LT																		
-Y3LPA- 15+00	CL	0657	0658		22.00	20.10													
-Y3LPA- 18+55	LT	0655		27.93															
-Y3LPA- 18+55	LT	0655	0656		24.93	24.66			28										
-Y3LPA- 19+79	RT	0652		30.06															
-Y3LPA- 19+80	CL	0652	0653		26.89	26.06													
-Y3LPA- 19+80	LT	0653		29.06															
-Y3LPA- 19+80	LT	0653	0654		26.06	25.78			36										
-Y3RPA- 17+91	CL	0668	0669		22.83	22.80													
-Y3LPD- 16+98	LT	0618		27.10															
-Y3LPD- 16+98	CL	0618	0619		24.35	23.95													
-Y3LPD- 16+98	RT	0619		27.12															
-Y3LPD- 17+25	RT	0619	0620		23.87	23.41													
-Y3LPD- 17+52	RT	0620		26.66															
-Y3LPD- 17+52	RT	0620	0621		23.41	22.50				28									
-Y3LPD- 18+06	CL	0624	0625		22.40	22.30													
-Y3LPD- 18+09	CL	0622	0623		22.40	22.30													
-Y3LPD- 18+37	LT	0615		28.32															
-Y3LPD- 18+37	CL	0615	0616		25.15	24.21													
-Y3LPD- 18+38	RT	0616		27.21															
-Y3LPD- 18+38	RT	0616	0617		24.21	22.39			32										
-Y3RPD- 17+68	CL	0665	0667		22.90	22.87													
-L- 345+00	CL	0706		20.33															
-L- 345+00	LT	0706	0707		17.58	15.90													
-L- 348+50	RT	0701	0702		12.90	12.45													
-L- 348+50	CL	0702		17.23															
-L- 348+50	LT	0702	0703		12.45	12.00													
-L- 349+67	CL	0708		16.87															
-L- 349+09	CL	0702	0708		12.45	14.12													
-L- 353+50	CL	0704		20.66															
-L- 353+50	LT	0704	0705		18.74	18.42													
-L- 356+37	RT	0801		30.54															
-L- 356+27	RT	0801	0802		27.79	27.35													
-L- 356+17	RT	0802		30.10															
-L- 356+17	RT	0802	0803		27.35	19.39													
-L- 356+80	LT	0804		31.49															
-L- 356+65	LT	0805		30.85															
-L- 356+73	LT	0804	0805		28.74	25.85													
-L- 356+65	LT	0805	0806		25.85	15.09													
-L- 356+65	CL	0808		28.78															
-L- 356+65	LT	0808	0805		26.03	25.85													
-L- 358+00	CL	0807	0809		13.76	12.50													
-Y4- 26+16	CL	0810	0811		14.00	13.50													
-DRV3- 10+23	LT	0812		16.84															
-DRV3- 10+33	CL	0812	0813		14.09	13.50													
-L- 370+35	LT	0901		34.79															
-L- 370+25	LT	0901	0902		32.04	31.98													
-L- 370+15	LT	0902		35.06															
-L- 370+15	LT	0902	0903		31.98	31.39													
-L- 370+15	CL	0903		34.14															
-L- 370+15	RT	0903	0904		31.39	30.91													
-L- 370+15	RT	0904		35.06															
-L- 370+25	RT	0907	0904		32.04	30.91													
-L- 370+35	RT	0907		34.79															
-L- 370+15	RT	0904	0905		30.91	23.40													
-L- 370+33	RT	0905	0906		9.82	4.45													
-L- 370+15	RT	0905		26.15															
-DRV3- 17+30	CL	0925	0926		5.60	5.40													
-L- 375+70	LT	0913		27.38															
-L- 376+00	LT	0914		26.98															
-L- 375+85	LT	0913	0914		24.63	24.23													
SHEET 2 TOTALS									188	28									

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''	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.
-Y3LPA- 11+26																												
-Y3LPA- 11+26																												
-Y3LPA- 13+74																												
-Y3LPA- 14+36																												
-Y3LPA- 15+00																							184					4.5	
-Y3LPA- 18+55																												
-Y3LPA- 18+55																												
-Y3LPA- 19+79																												
-Y3LPA- 19+80																		32										
-Y3LPA- 19+80																												
-Y3LPA- 19+80																												
-Y3RPA- 17+91																						140						3.4	
-Y3LPD- 16+98																												
-Y3LPD- 16+98																		40										
-Y3LPD- 16+98																												
-Y3LPD- 17+25																			52									
-Y3LPD- 17+52																												
-Y3LPD- 17+52																												
-Y3LPD- 18+06																					136							
-Y3LPD- 18+09																					136							
-Y3LPD- 18+37																												
-Y3LPD- 18+37																		32										
-Y3LPD- 18+38																												
-Y3LPD- 18+38																												
-Y3RPD- 17+68																						140						3.4	
-L- 345+00																												
-L- 345+00																		96										
-L- 348+50																						100						3.4	
-L- 348+50																												
-L- 348+50																						104							
-L- 349+67																												
-L- 349+09																		116										
-L- 353+50																												
-L- 353+50																		84										
-L- 356+37																												
-L- 356+27																		20										
-L- 356+17																												
-L- 356+17		44																										
-L- 356+80																												
-L- 356+65																												
-L- 356+73																		16										
-L- 356+65		52																										
-L- 356+65																												
-L- 356+65																		60										
-L- 358+00																					260							
-Y4- 26+16																			68									
-DRV3- 10+23																												
-DRV3- 10+33																		68										
-L- 370+35																												
-L- 370+25																		20										
-L- 370+15																												
-L- 370+15																		60										
-L- 370+15																												
-L- 370+15																		60										
-L- 370+15																												
-L- 370+25																		20										
-L- 370+35																												
-L- 370+15																			28									
-L- 370+33																			80									
-L- 370+15																												
-DRV3- 17+30																				60								
-L- 375+70																												
-L- 376+00																												
-L- 375+85																		32										
SHEET 2 TOTALS		96																756	228	60	532	484	184					14.7	

STATION	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	G.D.I. FRAME WITH TWO GRATES STD. 840.20	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	SPECIAL 3GI, SEE DETAIL SHEET 2C-2	C.B. STD. 840.04 OR 840.05	T.B.D.I. STD. 840.36	T.B.D.I. STEEL FRAME WITH TWO GRATES STD. 840.37	BERM DRAINAGE OUTLET STD. 850.11	CONVERT EXIST. D.I. TO J.B.	MANHOLE FRAME AND COVER STD. 840.54	SPEICAL JB, SEE DETAIL SHEET 2C-2	SIDE DRAIN 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
-Y3LPA- 11+26	1												1		1																		
-Y3LPA- 11+26																													2 @ 15"				
-Y3LPA- 13+74																																18	REMOVE 12" RCP
-Y3LPA- 14+36																																26	REMOVE 24" RCP
-Y3LPA- 15+00																																	
-Y3LPA- 18+55	1			1	1																												
-Y3LPA- 18+55																																	
-Y3LPA- 19+79	1							1		1	1																						
-Y3LPA- 19+80																																	
-Y3LPA- 19+80	1			1		1																											
-Y3LPA- 19+80																																	
-Y3RPA- 17+91																																	
-Y3LPD- 16+98	1												1				1																
-Y3LPD- 16+98																																	
-Y3LPD- 16+98	1			1		1																											
-Y3LPD- 17+25																																	
-Y3LPD- 17+52	1			1	1																												
-Y3LPD- 17+52																																	
-Y3LPD- 18+06																																	
-Y3LPD- 18+09																																	
-Y3LPD- 18+37	1							1		1	1																						
-Y3LPD- 18+37																																	
-Y3LPD- 18+38	1			1			1																										
-Y3LPD- 18+38																																	
-Y3RPD- 17+68																																	
-L- 345+00	1												1				1																
-L- 345+00																																	
-L- 348+50																																	
-L- 348+50	1												1				1																
-L- 348+50																																	
-L- 349+67	1											1				1	1																3GI
-L- 349+09																																	
-L- 353+50	1													1			1																
-L- 353+50																																	
-L- 356+37	1												1		1																		
-L- 356+27																																	
-L- 356+17	1												1		1																		
-L- 356+17																																	
-L- 356+80	1												1		1																		
-L- 356+65	1												1		1																		
-L- 356+73																																	
-L- 356+65																																	
-L- 356+65	1													1			1																
-L- 356+65																																	
-L- 358+00																																	
-Y4- 26+16																																65	REMOVE EXISTING PIPE
-DRV3- 10+23	1									1	1																						
-DRV3- 10+33																																	
-L- 370+35	1												1		1																		
-L- 370+25																																	
-L- 370+15	1												1		1																		
-L- 370+15																																	
-L- 370+15	1												1				1																
-L- 370+15																																	
-L- 370+15	1												1		1																		
-L- 370+25																																	
-L- 370+35	1												1		1																		
-L- 370+15																																	
-L- 370+33																																	
-L- 370+15	1	5	6.33																	1							1						
-DRV3- 17+30																																	
-L- 375+70	1												1		1																		
-L- 376+00	1												1		1																		
-L- 375+85																																	
SHEET 2 TOTALS	27	5.00	6.33	5	2	2	1	2		3	3	1	15	2	11	1	7			1							1		2 @ 15"			109	

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