US004070AA

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
I-5987B	3D-18

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)

ABBREVIATIONS
- C.A.A. CORRUGATED ALUMINIUM ALLOY
- C.B. CATCH BASIN
- C.S. CORRUGATED STEEL
- D.I. DROP INLET
- G.D.I. GRATED DROP INLET
- H.D.P.E. HIGH DENSITY POLYETHYLENE
- J.B. JUNCTION BOX
- M.H. MANHOLE
- N.S. NARROW SLOT
- P.V.C. POLYVINYL CHLORIDE
- R.C. REINFORCED CONCRETE
- T.B.D.I. TRAFFIC BEARING DROP INLET
- T.B.J.B. TRAFFIC BEARING JUNCTION BOX
- W.S. WIDE SLOT

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	C. S. PIPE 15 .064
			2127	2128		168.6	164.4												
Y1BRPA 11+31	26	RT	2129		172.9														
			2129	2130		168.9	165.8		36								X	X	
SR3 40+90	27	LT	2203						32								X	X	
LB2 729+00	1	RT	2248		173.9														
			2248	2250		170.1	169.9	0.4											
LB2 729+50	1	RT	2250		173.8														
			2250	2251		169.9	169.9	0.5											
LB2 729+50	1	LT	2251		174.7														
			2251	2256		169.6	169.2												
LB2 734+50	1	RT	2308		172.3														
			2308	2310		166.4	166.2	0.4											
LB2 735+20	1	RT	2310		172.1														
			2310	2311		166.2	166.1	0.5											
LB2 735+20	1	LT	2311		172.9														
			2311	2316		166.1	164.0												
LB2 739+00	1	RT	2320		171.2														
			2320	2321		165.4	165.0												
LB2 739+92	1	RT	2321		171.3														
			2321	2324		165.0	165.0	0.4											
LB2 739+92	1	LT	2324		171.0														
			2324	2326		164.7	163.5												
LB2 750+50	1	RT	2410		171.2														
			2410	2412		165.4	165.3												
LB2 750+50	1	LT	2412		171.2														
			2412	2416		165.3	162.8												
LB3 763+00	1	LT	2503		170.2														
			2503	2507		166.3	166.0												
LB3 763+00	1	RT	2505		170.2														
			2505	2503		166.3	166.3												
LB3 755+50	1	RT	2510		169.7														
			2510	2512		165.9	165.8												
LB3 755+50	1	LT	2512		169.7														
			2512	2516		165.8	162.6												
LB3 758+70	1	RT	2520		169.0														
			2520	2521		165.2	165.2												
LB3 758+70	1	LT	2521		169.0														
			2521	2526		165.2	161.2												
Y6 29+20	16	RT	2550		192.5														
			2550	2552		189.7	189.5												
Y6 29+05	14	LT	2552		192.2														
			2552	2554		189.5	166.2		60							X			
Y6 35+00	18	RT	2560		186.8														
			2560	2561		184.1	176.1		36							X			
Y6 35+00	18	LT	2562		186.8														
			2562	2563		184.1	163.0		80							X			
Y6 27+18	18	RT	2565		187.5														
			2565	2566		184.7	180.5		24							X			
LB3 759+00	73	RT	2570		168.4														
			2570	2572		164.6	160.8		44								X	X	
SHEET TOTALS									312										

FROM	TO	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 15	18	24	16" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	48" WELDED STEEL PIPE 0.625" THICK, GRADE B IN SOIL	16" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	24" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	42" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL	48" WELDED STEEL PIPE 0.625" THICK, GRADE B NOT IN SOIL
2127	2128								76																							
2129																																
2129	2130																															
2203																																
2248																																
2248	2250								48																							
2250																																
2250	2251								4																							
2251																																
2251	2256									96																						
2308																																
2308	2310								68																							
2310																																
2310	2311								4																							
2311																																
2311	2316																		56							56						
2320																																
2320	2321								92																							
2321																																
2321	2324								4																							
2324																																
2324	2326																			56							56					
2410																																
2410	2412								4																							
2412																																
2412	2416																		56							56						
2503																																
2503	2507								96																							
2505																																
2505	2503								4																							
2510																																
2510	2512								4																							
2512																																
2512	2516																		56							56						
2520																																
2520	2521								4																							
2521																																
2521	2526																		56							56						
2550																																
2550	2552								32																							
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2552	2554																															
2560																																
2560	2561																															
2562																																
2562	2563																															
2565																																
2565	2566																															
2570																																
2570	2572																															
SHEET TOTALS									440	96									224	56						224	56					

FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A 5' THRU 10' LIN. FT.	B 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G	CONCRETE TRANSITIONAL SECTION TBDI - SEE DETAIL, SHEET 2B-21	C.B. STD. 852.05	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	15" C.S. SLOTTED DRAIN PIPE	M.H. FRAME AND COVER STD. 840.54	ADJUST C.B.	ADJUST D.I.	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	24" SIDE DRAIN PIPE ELBOW	30" SIDE DRAIN PIPE ELBOW	36" SIDE DRAIN PIPE ELBOW	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
2127	2128																																				
2129			1																			1	1														
2129	2130																																				
2203																																					
2248			1																			1	1														
2248	2250																																				
2250			1																			1	1														
2250	2251																																				
2251			1	0.1																		1	1														
2251	2256																																				
2308			1	0.9																		1	1														
2308	2310																																				
2310			1	0.9																		1	1														
2310	2311																																				
2311			1	1.8																		1	1														
2311	2316																																	4			Flowable Fill: 15" RCP
2320			1	0.8																		1	1														
2320	2321																																				
2321			1	1.3																		1	1														
2321	2324																																				
2324			1	1.3																		1	1														
2324	2326																																				
2410			1	0.8																		1	1														
2410	2412																																				
2412			1	0.9																		1	1														
2412	2416																																				
2503			1																			1	1														
2503	2507																																				
2505			1																			1	1														
2505	2503																																				
2510			1																			1	1														
2510	2512																																				
2512			1																			1	1														
2512	2516																																	11			Flowable Fill: 3@18" RCP
2520			1																			1	1														
2520	2521																																				
2521			1																			1	1														
2521	2526																																				
2550			1																			1	1														
2550	2552																																	2			Flowable Fill: 15" CMP
2552			1																			1	1														
2552	2554																												2								
2560			1																			1	1														
2560	2561																												2								
2562			1																			1	1														
2562	2563																												2								
2565			1																			1	1														
2565	2566																												2								
2570			1																			1	1														
2570	2572																																				
SHEET TOTALS			24	8.8																		24	24						8					17			