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COMPUTED BY: BJF	DATE: 11/10/2021	PROJECT NO. U-5798A	SHEET NO. 3D-1
CHECKED BY: CMB	DATE: 12/21/2021		

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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)

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 %	DRAINAGE 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
L 51+00	57 LT	401		222.35															
		401	405		219.35	218.80													
L 51+18	11 RT	402		223.62															
		402	403		220.00	219.76													
L 51+18	45 RT	403		222.66															
		403	404		219.66	219.20													
L 52+38	45 RT	404		222.95															
		404	407		219.10	217.60													
L 52+07	57 LT	405		222.56															
		405	406		218.70	218.10													
L 53+15	57 LT	406		222.88															
		406	408		218.00	216.90													
L 55+36	45 RT	407		222.95															
		407	506		217.50	215.26													
L 55+32	57 LT	408		222.69															
		408	501		216.80	215.60													
L 49+99	103 LT	409			217.86	217.60													
L 52+72	11 RT	411		224.02															
		411	402		220.85	220.10													
L 57+54	51 LT	501		219.19															
		501	502		215.50	214.19													
L 58+85	45 LT	502		217.19															
		502	503		213.94	213.42													
L 59+93	43 LT	503		216.67															
		503	507		210.92	210.40													
		504	505		212.80	212.20													
L 62+09	39 LT	504		218.73															
		505	519		211.95	210.45													
L 63+26	39 LT	505		220.43															
L 58+15	45 RT	506		218.16															
		506	510		215.16	214.06													
L 59+93	43 RT	507		216.67															
		507	513		210.30	210.00													
		508	509		214.17	213.60													
L 60+95	42 RT	508		217.17															
		509	517		213.50	213.20													
L 62+09	39 RT	509		218.79															
L 59+10	45 RT	510		216.96															
		510	507		213.96	213.05													
		512	503		211.30	211.02													
L 59+91	59 RT	513		216.00															
		513	511		209.85	209.80													
		514	513		213.90	212.35													
L 66+08	98 RT	515			218.60	218.50													
		517	504		213.10	212.90													
L 62+09	5 LT	517		219.75															
L 69+12	39 LT	518		214.97															
		518	622		206.40	205.60													
L 69+12	39 LT	518		214.97															
		519	520		210.35	209.70													
						SHEET TOTAL													

LINE & STATION / SIZE / THICKNESS OR GAUGE	C.S. PIPE 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 12	15	18	24	30	36	42	48	ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY	REINFORCED ENDWALLS CY	MASONRY DRAINAGE STRUCTURE CY	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE
	0.064	0.064	0.064	0.079	0.079	0.109	0.109																						
L 51+00																													
									108																				
L 51+18																													
									32																				
L 51+18																													
									116																				
L 52+38																													
									300																				
L 52+07																													
									112																				
L 53+15																													
									216																				
L 55+36																													
									284																				
L 55+32																													
									224																				
L 49+99												136																	
L 52+72																													
									152																				
L 57+54																													
									132																				
L 58+85																													
										108																			
L 59+93																													
																									88				
									120																				
L 62+09																													
										188																			
L 63+26																													
L 58+15																													
									100																				
L 59+93																													
														16															
									116																				
L 60+95																													
																44													
L 62+09																													
L 59+10																													
									84																				
														24															
L 59+91																													
														8															
										100																			
L 66+08										68																			
																36													
L 62+09																													
L 69+12																													
											104																		
L 69+12																													
										76																			
SHEET TOTAL									2096	540	104	136		48		80								88					

| LINE & STATION / SIZE / THICKNESS OR GAUGE | ENDWALLS STD. 838.01 OR STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN.FT. PER EACH (0' THRU 5.0') | 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 D.I. STD. 852.06 | C.B. STD. 852.55 | 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 | T.B. G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | 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/ 3 GRATES STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | T.B. J.B. STD. 840.34 | T.B. G.D.I. STD. 840.35 | STEEL FRAME AND TWO GRATES STD. 840.37 | STEEL FRAME AND GRATE STD. 840.37 | M.H. STD. 840.51, STD. 840.52, OR STD.53 | M.H. FRAME AND COVER STD. 840.54 | CONCRETE OPEN THROAT C.B. STD. 840.04 | CONVERT EXISTING C.B. TO J.B. | CONVERT EXISTING D.I. TO J.B. | CONVERT EXISTING J.B. TO 2 G.I. | CONVERT C.B. TO D.I. | ADJUST EXISTING MANHOLE | ADJUST EXISTING C.B. | ADJUST D.I. | ADJUST 2GI | 15" C.S. ELBOW | 18" C.S. ELBOW | 24" C.S. ELBOW | 30" C.S. ELBOW | 36" C.S. ELBOW | 42" C.S. ELBOW | 48" C.S. ELBOW | BERM DITCH OUTLET STD. 859.10 (PER EACH) | BERM DITCH OUTLET STD. 859.11 (PER EACH) | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | FLOWABLE FILL, C.Y. | CONC. & BRICK PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN. FT. | REMARKS |
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