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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
A-0009CA	3D-7

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	24	30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 12 .064	15 .064	18 .064	24 .064	30 .079	36 .079	48 .109	R. C. PIPE CLASS III 12	15	18	24	30	36	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	48
		1214	1215		2075.5	2070.1	0.4																						100								
L 117+90	42 RT	1301																																			
		1301	1300		2087.2	2085.9																					84										
L 120+21	43 LT	1302		2105.4																																	
		1302	1303		2102.6	2093.8											80																				
L 134+15	33 RT	1400		2120.4																																	
		1400	1401		2117.5	2116.9																										20					
L 133+93	33 RT	1401		2119.8																																	
		1401	1402		2116.9	2113.3	0.8										20																				
L 131+10	39 LT	1403																																			
L 127+70	51 RT	1404																																			
L 137+28	21 LT	1405		2129.3																																	
		1405	1406		2126.5	2111.3											40																				
L 124+48	20 RT	1411																																			
L 146+33	21 LT	1500		2148.1																																	
		1500	1501		2145.3	2129.8											44																				
L 147+43	33 RT	1502		2148.3																												16					
		1502	1503		2145.5	2145.0																															
L 148+57	50 RT	1504																																			
		1504	1515		2139.3	2138.7														12																	
L 150+50	42 RT	1506		2148.6																																	
		1506	1507		2145.6	2141.1	1.2											176																			
L 141+70	47 RT	1513																																			
		1513	1517		2134.0	2129.2																				92											
L 148+57	37 RT	1515		2147.2																																	
		1515	1516		2138.2	2128.7																															
L 148+57	57 LT	1516		2135.6																																	
		1516	1505		2126.7	2126.5														12																	
L 141+61	42 LT	1517		2133.9																																	
		1517	1514		2126.2	2126.0																				16											
L 153+00	42 RT	1601		2150.3																																	
		1601	1618		2145.5	2144.8	0.3																			100											
L 153+00	78 RT	1602																																			
		1602	1601		2167.7	2146.2	0.3										36																				
L 155+30	42 RT	1603		2151.7																																	
		1603	1601		2146.9	2145.5																				228											
L 155+30	85 RT	1604																																			
		1604	1603		2167.2	2146.9	0.6												44																		
L 157+43	48 RT	1605																																			
		1605	1606		2151.8	2142.3														100																	
L 159+77	21 LT	1609		2156.7																																	
		1609	1610		2153.9	2153.2																										64					
L 160+44	22 LT	1610		2156.7																																	
		1610	1612		2153.2	2144.7	0.5										28																				
L 160+82	22 LT	1611		2156.7																																	
		1611	1610		2153.8	2153.2																										36					
L 162+96	48 RT	1613																																			
		1613	1617		2152.3	2144.2	0.5																														
L 165+14	39 RT	1615																																			
L 165+18	26 LT	1616		2160.8																																	
				SHEET TOTALS													248	176	44	124						436	84	100				136						

LINE & STATION	18" PIPE REHABILITAION CIPP LINER	24" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.500" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.500" THICK, GRADE B NOT IN SOIL	6" PVC PIPE (SPRING BOX)	6" DUCTILE IRON PIPE (SPRING BOX)	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	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) A: 0' THRU 5' EACH	B: 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 D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17, 840.26, OR 840.45	G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45	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	SPRING BOX STD. 840.41	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO D.I.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	4-SIDED OTCB, SEE DETAIL SHEET 2D-13	MIN. DEPTH 2GI-A, SEE SHEET DETAIL 2D-1	JB W/ WEIR WALL, SEE DEITAL SHEET 2D-2	DRY DET. OUTLET CTL. STR, SEE SHEET 2D-7	DRY DET. OUTLET CTL. STR, SEE SHEET 2D-11	BERM DRAINAGE OUTLET STD. 850.10 (SY)	BERM DRAINAGE OUTLET STD. 850.11 (SY)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 117+90																																																	
L 120+21																													1							1		1													
																																													2						ROD & LUG W/ GASKETS & 2 ELBOWS
L 134+15																													1							1	1														
L 133+93																	1							1	1																									
																																													2						2 ELBOWS
L 131+10										84																																								
L 127+70												44																																						
L 137+28																	1							1	1																									
																																													2						ROD & LUG W/ GASKETS & 2 ELBOWS
L 124+48									68								1											1																							SPRING BOX W/ 6" DIP
L 146+33																	1							1	1																									
																																													2						ROD & LUG W/ GASKETS & 2 ELBOWS
L 147+43																	1							1	1																									
L 148+57													2.300																																					HEADWALL
L 150+50																	1							1		1																								
L 141+70													1.500																																					HEADWALL
L 148+57																	1	4.0																					1			1										JB W/ MH
				46	46																																													TRENCHLESS INSTALLATION, L=92'
L 148+57																	1	3.9																					1			1										JB W/ MH
L 141+61																	1	2.7																					1			1										JB W/ MH
L 153+00																	1							1		1																								
L 153+00																																																	BERM DRAINAGE OUTLET (15")
																																													1						ROD & LUG W/ GASKETS & ELBOW
L 155+30																	1							1		1																								
L 155+30																																																	BERM DRAINAGE OUTLET (24")
																																														1						ROD & LUG W/ GASKETS & ELBOW
L 157+43																																																		
L 159+77																	1							1	1																									
L 160+44																	1							1	1																									
																																													2						ROD & LUG W/ GASKETS & 2 ELBOWS
L 160+82																	1							1	1																									
L 162+96													3.400																																					HEADWALL
					42	42																																												TRENCHLESS INSTALLATION, L=84'
L 165+14										32																																								
L 165+18																	1							1	1																									
SHEET TOTALS				46	46	42	42		68	116		44	7.200		17	10.6								2	11	9	4			3			1	3		11		1							11	31				

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