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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5839	3D-6

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 %	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	DO NOT USE PVC
		1314	1313		2713	2711														
Y15 11+50	17 RT	1316		2687																
		1316	1305		2685	2680	6				28					X		X	X	X
Y21RPB 16+06	28LT	1401		2716																
L 63+42	38 RT	1404		2722																
L 63+43	4 RT	1405		2724																
L 65+89	52 RT	1408		2732																
		1408	1407		2728	2724			116											
L 62+75	85RT	1410		2718																
		1410	1401		2709	2708														
L 63+82	38 RT	1411		2724																
		1411	1404		2718	2715														
Y21LPD 19+68	2 RT	1502		2736																
Y21LPD 19+68	11 LT	1503		2735																
Y21RPD 16+00	9 RT	1504		2739																
		1504	1503		2735	2732														
L 68+41	8 LT	1506		2734																
		1506	1507		2731	2729														
L 68+41	38 RT	1507		2732																
		1507	1508		2729	2725														
L 70+23	38 RT	1508		2728																
		1508	1510		2725	2722														
L 70+23	58 RT	1509		2730																
		1509	1508		2727	2725														
		1510	1514		2722	2717	1													
L 71+23	41 RT	1510		2725																
L 72+42	33 RT	1512		2719																
L 72+00	33 LT	1513		2721																
		1513	1516		2715	2712														
L 72+00	35 RT	1514		2721																
		1514	1512		2717	2713	2													
L 70+69	1 LT	1515		2727																
L 72+00	1 RT	1516		2722																
Y8 10+55	17 RT	1801		2621																
		1801	933		2617	2617			44								X	X		
Y8 10+55	16 LT	1802		2621																
		1802	1801		2617	2617														
Y9 14+50	10 RT	1901		2640																
Y9 14+50	35 RT	1902		2640																
		1902	1901		2637	2636														
Y9 13+55	3 LT	1903		2638																
Y9 13+57	13 LT	1904		2638																
		1905	1904		2635	2635														
Y9 13+37	13 LT	1905		2638																
		1907	1905		2636	2635														
Y9 12+88	11 LT	1907		2639																
Y9 12+88	22 RT	1908		2639																
		1908	1907		2636	2636														
SHEET TOTAL									160		28									
PROJECT TOTAL									352		28									

FROM	TO	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"	ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0')	LIN.FT. A 5.0' THRU 10.0'	LIN.FT. 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
1314	1313										24																
1316																											
1316	1305																										
1401																								1			1
1404																					1	1.9		1			1
1405																											
1408																					1						
1408	1407																										
1410																											
1410	1401											12															
1411																					1	1.0		1			1
1411	1404										36																
1502																					1	5.0	4.4				
1503																					1	5.0	4.0				
1504																					1						
1504	1503										120																
1506																					1						
1506	1507										44																
1507																					1			1		1	
1507	1508										180																
1508																					1			1		1	
1508	1510										100																
1509																					1						
1509	1508										20																
1510	1514										76																
1510																											
1512																					1	0.2		1		1	
1513																					1	1.4		1			1
1513	1516										32																
1514																					1			1		1	
1514	1512										40																
1515																											
1516																					1	4.6					
																					1	1.2					
1801																					1			1		1	
1801	933																										
1802																					1			1	1		
1802	1801										32																
1901																					1	2.7					
1902																					1			1			1
1902	1901										24																
1903																					1						
1904																					1			1			1
1905	1904										20																
1905																					1			1	1		
1907	1905										48																
1907																					1						
1908																					1			1			1
1908	1907										32																
SHEET TOTAL											828	12									24	23.0	8.4	14	2	5	7
PROJECT TOTAL											4485	1128	1832	48	224						153	125.9	20.6	100	13	46	45

FROM	TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	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	SPECIAL OFFSET CB W/ MANHOLE (DETAIL 2D-1)	J.B. STD. 840.31 OR 840.32	T.B. J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING D.I. TO J.B.	ADJUST C.B.	ADJUST D.I.	ADJUST M.H	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
1314	1313																							
1316																								Stub out
1316	1305																							
1401																	1							
1404																								
1405		1			1													1						
1408										1				1										
1408	1407																							
1410																				0.40				
1410	1401																							
1411																								
1411	1404																							
1502											1			1										
1503		1		1	1																			
1504		1		1	1																			
1504	1503																							
1506		1		1	1																			
1506	1507																							
1507																					5.196			
1507	1508																							
1508																								
1508	1510																							
1509				1	1																			
1509	1508																							
1510	1514																							
1510														1		1							80	
1512																							62	
1513																								
1513	1516																							
1514																								
1514	1512																							
1515					1													1						
1516											1			1										
											1			1										
1801																								
1801	933																							
1802																								
1802	1801																							
1901											1			1										
1902																								
1902	1901																							
1903											1			1									4	
1904																								
1905	1904																							
1905																								
1907	1905																							
1907							1					1												
1908																								
1908	1907																							
SHEET TOTAL		4		4	6		1			1	5	1		7		1	1	2		0.40	5.196		146	
PROJECT TOTAL		11	1	18	18	3	7	1	4	12	11	5		33	4	3	3	2	2	5.38	70.776		1764	

ABBREVIATIONS

C.A.A - CORRUGATED ALUMINUM INLET
C.B - CATCH BASIN
C.S. - CORRUGATED STEEL
D.I. - DROP INLET
G.D.I. - GRATED DROP INLET
P.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