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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-5104	3D-1

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	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	C. S. PIPE (SE: SHOP ELONGATED) SIZE	C. S. PIPE THICKNESS OR GAUGE	R. C. PIPE CLASS IV SIZE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES A 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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	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 WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	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	TB M.H. STD. 840.52 6' DIAMETER	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	OFFSET CB STD. 804.D02	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 10+98	19 LT	0401		2164.6										1	5.0	2.0	1		1																											REMOVE EX CB
		0401	0411		2152.6	2146.5	0.6			24																																				
L 10+97	19 RT	0402		2164.6										1			1			1																									REMOVE EX DI
		0402	0401		2160.2	2159.8				36																																		
L 13+00	18 LT	0403		2170.5										1			1		1																										
		0403	0401		2166.0	2160.1	0.6			200																																			
L 13+00	18 RT	0404		2170.5										1			1			1																										
		0404	0403		2167.5	2167.2				36																																				
L 14+44	19 LT	0405		2174.3										1	2.8		1		1																										
		0405	0403		2166.5	2165.9	0.4			144																																			
L 14+45	18 RT	0406		2174.3										1			1			1																										
		0406	0404		2171.0	2167.2				144																																				
L 16+55	19 LT	0407		2179.6										1			1		1																										
		0407	0405		2176.6	2171.3	0.3			208																																			
L 16+55	18 RT	0408		2179.7										1			1			1																										
		0408	0406		2176.4	2171.2				208																																				
L 20+00	19 LT	0409		2188.1										1			1		1																										
		0409	0407		2185.1	2176.6				344																																				
L 20+00	18 RT	0410		2188.1										1			1			1																										
		0410	0408		2184.9	2176.4				344																																				
L 10+67	55 LT	0415		2157.0										1	5.0	1.7																												
		0415	0416		2145.3	2145.2				16																																			0.5526		
L 21+74	18 RT	0501		2189.3										1			1		1																										
		0501	0503		2186.3	2185.0				112																																				
L 22+80	42 LT	0502		2188.0										1								1	1																						
		0502	0504A		2185.2	2185.0				60																																				
L 22+90	18 RT	0503		2188.0										1			1		1																										
		0503	0505		2185.0	2184.7				80																																				
L 24+00	38 LT	0504		2187.5										1								1	1																						
		0504	0509		2184.3	2176.5				356																																				
L 23+75	18 RT	0505		2187.9										1			1		1																										
		0505	0506		2184.7	2184.5				96																																				
L 24+75	18 RT	0506		2187.6										1			1			1																										
		0506	0507		2184.5	2183.0				104																																				
L 25+80	19 RT	0507		2186.0										1			1		1																										
		0507	0508		2183.0	2178.0				168																																				
L 27+48	19 RT	0508		2181.0										1			1		1																										
		0508	0508A		2178.0	2175.7				40																																				
L 27+49	18 LT	0509		2180.2										1			1			1																										
		0509	0510		2176.9	2176.7				12																																				
L 27+63	18 LT	0510		2180.0										1			1			1																										
		0510	0510A		2176.6	2175.4				20																																				
L 28+12	18 LT	0511		2179.8										1																																
		0511	0518		2176.1	2174.7				44																																				
L 28+42	18 LT	0512		2179.6										1			1		1																										
		0512	0511		2176.6	2176.1				28																																				
L 28+50	19 LT	0513		2179.6										1			1		1																										
		0513	0512		2176.6	2176.6				8																																				
L 30+50	19 LT	0514		2186.2										1			1		1																										
		0514	0513		2183.4	2176.6				200																																				
SHEET TOTALS									48	2956		36		25	12.8	3.7	21		13	8	2	2																						

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