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COMPUTED BY:	CGM	DATE:	08/11/2026
CHECKED BY:	JJM	DATE:	08/11/2026

PROJECT NO.	SHEET NO.
U-3422B	3D-9

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)

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) 12	15	18	24	30	36	42	48	DO NOT USE PP PIPE	C. S. PIPE 12 .064	15 .064	18 .064	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 NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY 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 D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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 W/ GRATE STD. 840.20	G.D.I. (W.S. FLAT) FR. W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FR. W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FR. W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FR. W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANG. VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST M.H.		FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONC. AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
Y3 34+40	37	LT	1810		184.7																																				1	2.7		1			1																																		
			1810	1809		177.0	176.8																	72																																																										
Y3 36+50	51	RT	1811		182.1																																				1	1.0		1		1																																			
			1811	1133		176.1	175.1																									104																																																								
Y3 32+75	52	LT	1812		184.4																																				1												1	1																													
			1812	1807		182.2	178.2															16																																																																
Y3 33+75	37	LT	1814		184.6																																				1	2.4		1			1																																		
			1814	1810		177.2	177.0																	64																																																										
Y3 27+12	37	LT	1819		184.2																																				1	0.1		1	1																																				
			1819	1805		179.2	178.9																									88																																																								
Y3 34+40	50	RT	1820		184.3																																				1												1	1																													
			1820	1809		182.0	181.3																						12																																																													
Y3 24+40	41	LT	1821							30																																																																										
Y3 25+00	43	RT	1822							30																																																																											
Y3 25+30	44	RT	1823		183.2																																																																																		
			1823	1804		183.2	180.9																						96																																																													
Y3 25+15	42	LT	1824		183.3																																																																																		
			1824	1801		183.3	181.5																						80																																																													
Y5 14+89	65	LT	1901		171.8																																				1			1			1																																112	Pipe Removal for all of Sheet 19 [19, 19A, 19B]
			1901	1215		167.1	166.7																		108																																																																		
Y5 14+60	7	RT	1902		173.8																																				1								1				1	1																													
			1902	1922		170.5	170.4																						40																																																														
Y5 15+77	57	LT	1903		172.6																																				1	0.3		1			1																																		
			1903	1901		167.3	167.1																		88																																																																			
Y5 16+85	47	LT	1904		173.2																																				1			1			1																																		
			1904	1903		169.1	167.3																						108																																																													
Y5 17+25	37	RT	1905		173.1																																				1	0.9		1		1																																			
			1905	1941		167.2	166.8																	148																																																										
Y5 18+45	37	RT	1906		173.4																																				1	0.3		1		1																																			
			1906	1905		168.1	167.8																124																																																													
Y5 20+26	37	RT	1907		173.8																																				1			1		1																																			
			1907	1906		169.9	168.4																						184																																																													
Y5 20+62	7	RT	1908		174.6																																				1								1				1	1																													
			1908	1930		171.5	171.3																						40																																																														
Y5 20+50	75	LT	1909		173.2																																				1			1	1																																				
			1909	1910		170.2	170.0																						64																																																													
Y5 19+87	59	LT	1910		173.7																																				1			1			1																																		
			1910	1919		170.0	169.7																						108																																																													
Y5 20+20	8	LT	1911		174.7																																				1								1				1	1																													
			1911	1910		171.3	170.0																						60																																																													
Y5 22+79	37	LT	1912		173.1																																				1			1	1																																				
			1912	1915		169.6	169.4																							56																																																											
Y5 22+79	6	RT	1913		174.1																																				1								1				1	1																													
			1913	1912		169.7	169.6																							40																																																											
Y5 22+79	37	RT	1914		173.1																																				1			1	1																																				
			1914	1913		169.8	169.7																							28																																																											
Y5 23+35	37	LT	1915		173.2																																				1			1		1																																			
			1915	1918		169.4	168.9																							192																																																											
Y5 24+25	37	RT	1916		173.5																																				1			1			1																																		
			1916	1914		170.5	170.1																						144																																																													
							SHEET TOTALS			60												16	124	284	196					936	316	192									22	7.7		16	4	5	7		4				6	6																													112	