7LMV2J3

COMPUTED BY: Jonathan T. May DATE: 4/5/2023

CHECKED BY: Vidya Mohandas DATE: 4/5/2023

PROJECT NO.	SHEET NO.
U-4424	3D-3

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	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	C. S. PIPE 12 (.064)	C. S. PIPE 15 (.064)	C. S. PIPE 18 (.064)	C. S. PIPE 24 (.064)	C. S. PIPE	C. S. PIPE 30 (.079)	R. C. PIPE CLASS IV 12	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30	R. C. PIPE CLASS IV 36	R. C. PIPE CLASS IV 42	R. C. PIPE CLASS IV 48	R. C. PIPE CLASS IV	R. C. PIPE CLASS V 24	R. C. PIPE CLASS V 30	R. C. PIPE CLASS V 36	R. C. PIPE CLASS V 42	R. C. PIPE CLASS V 48
		0620	0701		97.0	95.7									200												
L 50+79	20 LT	0701		99.0																							
		0701	0718		95.7	93.7									120												
L 53+79	20 LT	0702		93.8																							
		0702	0703		90.7	88.8									160												
L 55+40	20 LT	0703		92.1																							
		0703	0710		88.8	87.0									40												
L 56+52	36 LT	0704		90.5																							
		0704	0705		87.8	87.5	0.5								8												
L 56+54	26 LT	0705		92.7																							
		0705	0711		85.1	84.2	0.4														52						
L 56+28	36 LT	0706		91.5																							
L 54+33	44 RT	0707		92.5																							
		0707	0708		87.7	87.5									24												
L 54+33	20 RT	0708		93.6																							
		0708	0710		87.5	87.0									108												
L 55+40	50 RT	0709		89.8																							
		0709	0710		87.5	87.0									32												
L 55+40	20 RT	0710		92.4																							
		0710	0711		87.0	86.0										136											
L 56+78	20 RT	0711		91.9																							
		0711	0712		84.2	83.9	0.5														16						
L 56+85	34 RT	0712		92.9																							
L 57+08	51 RT	0713		87.8																							
L 57+84	20 LT	0714		92.5																							
		0714	0705		89.4	87.5	0.4								132												
L 60+00	20 RT	0715		96.6																							
		0715	0715 Outlet		93.1	91.5									36												
L 57+75	20 RT	0716		92.4																							
		0716	0711		89.3	86.0									96												
L 57+95	31 LT	0717		92.8																							
		0717	0714		90.1	89.4	0.3								16												
L 52+00	20 LT	0718		97.0																							
		0718	0702		93.7	90.7									176												
L 59+20	20 LT	0719		94.5																							
		0719	0720 Outlet		91.4	91.3									20												
L 55+86	65 RT	0721		90.5																							
		0721	0722		87.3	87.0									52												
L 56+39	65 RT	0722		90.2																							
		0722	0713		87.0	85.3									68												
72+75	20 LT	0801		96.5																							
		0801	0801 Outlet		89.1	88.0									108												
75+05	20 LT	0802		93.8																							
		0802	0801		90.3	89.1									228												
75+05	35 LT	0803		92.6																							
		0803	0802		90.4	90.3									16												
L 72+89	27 RT	0804		97.0																							
		0804	0804 Outlet		88.6	85.9	0.4									188											
L 73+01	56 RT	0805		93.7																							
		0805	0804		90.4	88.6										32											
SHEET TOTALS															1640	356					68						

STRUCTURE	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)) 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 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
0701		1			1			1																		
0702		1			1			1																		
0703		1			1			1																		
0704		1															1									1
0705																										
0706		1	0.5		1	1																				
0707		1															1									1
0708		1	1.1		1		1																			
0709		1															1									1
0710		1	0.4		1		1																			
0711		1	2.7		1			1																		
0712																										
0713		1															1									1
0714		1			1		1																			
0715		1			1			1																		
0716		1			1			1																		
0717		1															1									1
0718		1			1			1																		
0719		1			1		1																			
0721		1			1	1																				
0722		1			1	1																				
0801		1	2.4		1			1																		
0802		1			1	1																				
0803		1												1	1											
0804		1	3.5																							
0805																										
SHEET TOTALS		23	10.6		16	4	4	8						1	1		5									5

STRUCTURE	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	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	TEMP STEEL PLATE COVER MASONRY DRAINAGE	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. (See Sheet 2C-9)	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B. (See Sheet 2C-9)	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	15" C.S. ELBOW	18" C.S. ELBOW		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
0705											1			1											
0712											1			1											
0804					1						1														
SHEET TOTALS					1						3			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