Docusign Envelope ID: 07CCEA16-C15B-40DB-B199-8E00EA1949E7

RAL-GTPH6L3

COMPUTED BY:	CGM	DATE:	08/6/2024
CHECKED BY:	JJM	DATE:	08/6/2024

PROJECT NO.	SHEET NO.
U-3422A	3D-4

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 / 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	
		0724	0715		177.2	176.9															16															
L 69+00	53 RT	0725		181.5																																
		0725	0713		179.3	179.0															16															
L 66+00	65 LT	0726		182.3																																
		0726	0708		180.0	179.6															16															
L 69+00	55 LT	0727		181.2																																
		0727	0712		178.9	178.2															20															
Y1 21+75	0 CL	0728	0729		176.8	176.5																										84				
Y2 11+50	27 LT	0730			181.9	181.5				92																										
L 75+75	37 LT	0801		174.2																																
		0801	0803		170.2	168.7																									184					
L 77+55	63 LT	0802		168.3																																
		0802	0803		168.3	167.7																		28												
L 79+45	37 RT	0806		174.3																																
		0806	0816		171.0	170.2																								112						
L 79+50	37 LT	0807		174.3																																
		0807	0815		171.3	169.4																							112							
L 81+80	37 RT	0808		178.0																																
		0808	0806		174.0	171.0																								228						
L 82+00	37 LT	0809		179.7																																
		0809	0899		176.7	174.0																							112							
L 83+33	7 LT	0810		181.9																																
		0810	0818		178.8	178.1																							12							
L 83+53	37 RT	0811		180.6																																
		0811	0898		177.3	176.4																							92							
L 86+06	37 RT	0812		181.6																																
		0812	0819		170.5	170.2																				|132|									
L 86+06	7 RT	0813		183.0																																
		0813	0812		179.9	178.6																							28							
L 87+40	55 RT	0814		181.8																																
		0814	0812		170.9	170.5																				|132|									
L 78+38	37 LT	0815		173.4																																
		0815	0803		166.6	166.2																					|76|								
L 78+38	37 RT	0816		173.4																																
		0816	0804		170.2	169.8																								80						
L 78+38	68 LT	0817		166.8																																
		0817	0815		166.8	166.6																					|36|								
L 83+33	7 LT	0818		181.3																																
		0818	0821		178.1	177.1																							136							
L 84+70	37 RT	0819		181.0																																
		0819	0820		170.2	170.0																				|52|									
L 84+70	7 LT	0821		183.0																																
		0821	0819		178.0	176.5																								44						
L 87+56	64 LT	0823		182.1																																
		0823	0825		179.1	178.9																	76													
L 76+50	37 RT	0824		173.6																																
		0824	0804		168.6	168.0																									108				
L 87+56	7 RT	0825		184.0																																
		0825	0814		178.9	178.1																	48													
						SHEET TOTALS				92												68		124	28		316	112		492	464	184	192					

STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	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 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	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	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 C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	15" 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
0724	0715																																															
0725					1												1	1																														
0725	0713																																															
0726					1												1	1																														
0726	0708																																															
0727					1												1	1																														
0727	0712																																															
0728	0729																																															
0730																																																
0801					1			1			1																																				87	Pipe Removal for all of Sheet 8
0801	0803																																															
0802																																																OEP
0802	0803																																															
0806					1			1			1																																					
0806	0816																																															
0807					1			1		1																																						
0807	0815																																															
0808					1			1			1																																					
0808	0806																																															
0809					1			1		1																																						
0809	0899																																															
0810					1								1				1	1																														
0810	0818																																															
0811					1			1			1																																					
0811	0898																																															
0812					1	5.0	1.1	1			1																																					
0812	0819																																															
0813					1								1				1	1																														
0813	0812																																															
0814					1	5.0	0.9	1	1																																							
0814	0812																																															
0815					1	1.8		1		1																																						
0815	0803																																															
0816					1			1		1																																						
0816	0804																																															
0817			6.000																																													HW
0817	0815																																															
0818					1								1				1	1																														
0818	0821																																															
0819					1	5.0	0.8	1			1																																					
0819	0820																																															
0821					1								1				1	1																														
0821	0819																																															
0823					1												1	1																														
0823	0825																																															
0824					1			1		1																																						
0824	0804																																															
0825					1	0.1							1				1	1																														
0825	0814																																															
SHEET TOTALS			6.000			21	16.9	2.8	12	1	5	6		5				9	9																													87	

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