COMPUTED BY: VHB DATE: 3/29/2023

CHECKED BY: VHB DATE: 3/29/2023

Z1501

PROJECT NO.	SHEET NO.
R-5725	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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30	36	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	R. C. PIPE CLASS IV 12	15	18	24	30	36			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	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	##" SPRING BOX PIPE	SPRING BOX STD. 840.41		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 D.I.	CONVERT EXISTING D.I. TO J.B.	15" DRAINAGE PIPE ELBOW	18" DRAINAGE PIPE ELBOW	24" DRAINAGE PIPE ELBOW	30" DRAINAGE PIPE ELBOW		BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (4" CONCRETE PA	MODIFIED CONC. FLUME	PREFORMED SCOUR HOLE (PER EACH)	ENERGY DISSIPATION BASIN		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
		0635	0701		925.9	919.9														168																																																																			
L2 33+00	27 LT	0636		932.6																										1			1			1																																																		
		0636	0637		929.6	926.2														52																																																																			
L2 33+39	60 LT	0637		929.2																										1			1			1																																																		
		0637	EX0602		926.2	924.3														108																																																																			
L2 35+35	29 LT	0701		922.9																										1			1			1																																																		
		0701	0702		919.9	914.3	0.3													164																																																																				
L2 37+00	17 LT	0702		917.3																										1			1			1																																																		
		0702	0705		914.3	910.3	0.4													104																																																																			
L2 37+89	29 RT	0703		912.2																																																																																					OEP
		0703	0704		909.7	908.2																	20																																																																	
L2 37+96	14 RT	0704		913.7																										1	0.5		1		1																																																			
		0704	0705		908.2	907.9																	28																																																																	
L2 38+06	16 LT	0705		913.3																										1	0.4		1			1																																																			
		0705	0706		907.9	907.7																	28																																																																	
Y2A 16+36	14 RT	0802		941.1																										1			1			1																																																		
		0802	0801		937.9	937.7														36																																																																				
Y2A 16+36	14 LT	0803		942.0																										1			1		1																																																		
		0803	0802		939.0	938.1														28																																																																				
Y2A 17+65	15 RT	0804		943.3																										1			1			1																																																		
		0804	0802		938.5	937.9														124																																																																				
Y2A 18+35	31 RT	0805		943.6																										1			1			1																																																		
		0805	0804		938.9	938.5														76																																																																				
DRIVE2 10+55	20 RT	0806		943.0																										1			1		1																																																		
		0806	0805		939.3	938.9														72																																																																				
DRIVE2 10+63	24 LT	0807		942.5																										1			1			1																																																		
		0807	0806		939.5	939.3														44																																																																					
DRIVE1 11+10	24 RT	0808		942.4																										1			1			1																																																		
		0808	0809		939.4	939.2														44																																																																				
DRIVE1 11+20	20 LT	0809		943.2																										1			1		1																																																		
		0809	EX0801		939.2	927.4														116																																																																				
Y2B 10+56	43 LT	0810		943.8																										1			1	1																																																				
		0810	0809		940.6	940.2														60																																																																				
L2 16+41	40 RT	0000																																																																																					65	
L2 10+05	7 LT	0000																																																																																				51	
L2 20+43	54 RT	0000																																																																																					103	
L2 22+81	44 RT	0000																																																																																					81	
L2 25+39	38 RT	0000																																																																																					77	
Y2A 16+68	27 RT	0000																																																																																					97	
Y2A 17+45	27 RT	0000																																																																																					51	
L2 13+71	45 LT	0000																																																																																					20	
L2 14+08	30 LT	0000																																																																																					76	
L2 14+44	51 LT	0000																																																																																					24	
L2 25+99	71 RT	0000																																																																																					53	
L2 18+99	90 LT	0000																																																																																31				
L2 18+93	5 RT	0000																																																																																50				
L1 12+31	33 RT	0000																																																																																					22	
SHEET TOTALS																				1196			76							15	0.9		15	1	4	10																																														81			720	
PROJECT TOTALS									188			80	28							5796	1296	280	336							87	36.1		68	10	26	32		8				9	9		7	2						9					1						8					2		1				4			31					81			720	

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