LINDA092017-PC

COMPUTED BY: LMJ DATE: 12-05-24

CHECKED BY: WHT DATE: 12-05-24

PROJECT NO.: U-5536 SHEET NO.: 3D-5

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 %	Drainage Pipe (RCP, CSP, HDPE, PVC, or PP PIPE) 15	18	24	30	36	DO NOT USE RCP	DO NOT USE HDPE	DO NOT USE PVC	DO NOT USE PP PIPE	C. S. PIPE 15 .064	18 .064	24 .064		R. C. PIPE CLASS III 15	18	24	30	36		R. C. PIPE CLASS IV 15	18	24	30	36		R. C. PIPE CLASS V 15	18	24			15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	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	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. FRAME AND COVER STD. 840.54	ADJUST C.B.	15" DRAINAGE PIPE ELBOW		PIPE CLEANOUT EACH	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 52+17	24	RT	0702		951.3																																							1			1		1																																	
			0702	0703		946.3	945.0		20																																																																										
L 52+17	45	RT	0703		947.2																																							1											1	1																													
			0703	0704		945.0	944.8		32																																																																									
Y7 12+33	49	LT	0704		946.7																																							1											1	1																												MIN D DI
			0704	0706		944.8	944.6		28																																																																										
Y7 11+68	28	LT	0705		949.1																																							1			1	1																																					
			0705	0706		945.7	945.5																					48																																																										
Y7 12+15	28	LT	0706		949.4																																							1			1		1																																	
			0706	0708		944.6	944.4	0.4																				44																																																									
Y7 11+68	19	RT	0707		949.2																																							1			1		1																																	
			0707	0708		945.9	944.4																					48																																																										
Y7 12+15	19	RT	0708		949.1																																							1			1	1																																					
			0708	0709		944.2	943.8			80																																																																									
L 53+20	24	RT	0709		948.4																																							1			1		1																																	
			0709	0722		943.8	943.3																						100																																																									
Y8 15+22	21	LT	0711		954.0																																							1			1			1																																
			0711	0715		950.7	950.2																					72																																																										
L 56+80	21	LT	0712		950.2																																							1			1		1																																	
			0712	0716		946.6	946.0																					128																																																										
L 56+80	20	RT	0713		950.2																																							1			1			1																																
			0713	0712		946.8	946.6																					40																																																										
RABT4 12+53	47	RT	0714		946.8																																																																																		
RABT4 12+52	31	RT	0715		953.6																																							1			1			1																																
			0715	0713		950.2	946.8																					120																																																										
L 57+97	47	LT	0716		952.2																																							1	1.2		1		1																																	
			0716	0717		946.0	945.0																			112																																																													
Y8 17+76	20	LT	0717		948.0																																							1			1			1																																
			0717	0718		945.0	944.1																					36																																																										
Y8 17+83	18	RT	0718		947.5																																							1			1		1																																	
			0718	0719		943.9	936.8																			232																																																													
Y8 20+18	18	RT	0719		940.1																																							1			1		1																																	
			0719	E701		936.8	934.2	0.9																80																																																												
L 54+20	24	RT	0722		946.9																																							1	3.1		1		1																																	
			0722	0724		938.9	938.7																								60																																																						
L 54+60	24	RT	0723		946.9																																							1			1	1																																					
			0723	0722		942.9	942.7																					40																																																										
L 53+92	30	LT	0724		947.1																																							1	3.4		1			1																																
			0724	0728		938.7	918.2					76																																																																									
L 54+60	30	LT	0725		946.7																																							1			1	1																																					
			0725	0724		942.7	942.5																					68																																																										
L 54+34	52	RT	0727		941.5																																																																																		
			0727	0722		939.0	938.9																				32																																																												
L 53+53	96	LT	0728		923.2																																							1	5.0	0.5																									1			1									
			0728	0729		914.0	914.0					20																																																																									
L 61+22	21	RT	0750		943.9																																							1	1.0		1		1																																	
			0750	0780		938.0	937.8																									44																																																		36	
L 61+70	21	RT	0751		943.7																																							1			1	1																																					
			0751	0750		940.4	939.5	0.4																44																																																												
L 61+82	21	RT	0752		943.7																																							1			1			1																																
SHEET TOTALS									80	80		96											468		32			644	100		60	44												24	13.7	0.5	21	5	10	6					2	2														1			1								36	