COMPUTED BY: JCB **DATE:** 2/05/2020
CHECKED BY: LDR **DATE:** 2/05/2020

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-2579BA	3D-1

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	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)		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	20" WELDED STEEL PIPE .500. TRENCHLESS INSTALLATION (NOT IN SOIL)	20" WELDED STEEL PIPE .500. TRENCHLESS INSTALLATION (IN SOIL)		ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	DRAINAGE STRUCTURE MASONRY CY
Y4WB 28+88	43 RT	0327		905.1																				
		0327	0327A	900.7	900.1									12										
Y4WB 28+91	30 RT	0327A																						
Y4 29+07	0 CL	0328		906.1																				
Y4WB 32+00	43 RT	0329		897.3																				
		0329	0330		894.6	892.3							84											
Y4WB 32+82	43 RT	0330		895.9																				
		0330	0330A		890.2	890.0									8									
Y4WB 32+87	37 RT	0330A																						
Y4 33+36	0 CL	0331																						
Y4WB 32+69	58 RT	0334																					4.500	
		0334	0330		890.4	890.2									20									
		0334	0335		890.4	889.4											36							
Y4WB 33+00	43 RT	0335		895.8																				
Y4WB 38+75	69 RT	0340		877.2																				
		0340	0480		871.0	868.2												92						
Y4 39+35	0 CL	0337		886.3																				
Y4 39+35	0 CL	0338		877.7																				
Y4WB 39+64	45 RT	0339																						
		0339	0480		870.4	869.6								16										
Y4WB 43+00	47 RT	0341		869.0																				
		0341	0478		864.0	858.5	0.4		16															
Y4 43+00	0 CL	0342		867.9																				
		0342	0345		865.1	856.0							348											
Y4WB 46+00	47 RT	0344		861.1																				
		0344	0477		856.1	850.5			16															
Y4 46+50	0 CL	0345		858.8																				
		0345	0347		856.0	849.3							348											
Y4 50+00	0 CL	0347		852.3																				
		0347	0351		849.3	846.9	0.5						248											
Y4WB 49+75	47 RT	0348		853.3																				
		0348	0350		850.1	847.2							276											
Y4WB 52+51	47 RT	0350		850.4																				
		0350	353B		847.2	845.7							148											
Y4 52+50	0 CL	0351		849.9																				
		0351	0356		846.9	844.8	0.8						196											
Y4WB 54+74	47 RT	0353		849.8																				
		0353	356B		844.7	842.0								172										
Y4WB 54+47	47 RT	353A		849.8																				
		353A	0353		845.0	844.7								24										
Y4WB 54+00	47 RT	353B		849.9																				
		353B	353A		845.7	845.2	0.4						44											
Y4WB 55+68	43 RT	0355		837.6																				
		0355	0007		837.6	836.4											88							
Y4 56+50	0 CL	356A		849.9																				
		356A	356B		842.7	841.3	2.1													52	24			
Y4WB 56+50	47 RT	356B		850.5																				
		356B	0008		841.3	836.3	0.3								64									
Y4 54+48	0 CL	0356		849.0																				
		0356	356A		844.8	842.7	0.5							200										
							SHEET TOTALS		32				1692	424	92		124	92		52	24		4.500	

LINE & STATION	FROM	TO	QUANTITIES FOR DRAINAGE STRUCTURES 0' THRU 5' EACH	5' THRU 10' (A) LIN. FT.	10' AND ABOVE (B) 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) 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	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING O.T.C.B. TO 2GI	
Y4WB 28+88	0327		1															1					1																
	0327	0327A																																					
Y4WB 28+91	0327A																																						
Y4 29+07	0328																						1															1	
Y4WB 32+00	0329		1															1					1																
	0329	0330																																					
Y4WB 32+82	0330		1	0.7																										1								1		
	0330	0330A																																					
Y4WB 32+87	0330A																																						
Y4 33+36	0331																						1															1	
Y4WB 32+69	0334																																						
	0334	0330																																					
	0334	0335																																					
Y4WB 33+00	0335		1	1.4																										1								1		
Y4WB 38+75	0340		1	1.2													1						1																
	0340	0480																																					
Y4 39+35	0337																						1															1	
Y4 39+35	0338																						1															1	
Y4WB 39+64	0339																																						
	0339	0480																																					
Y4WB 43+00	0341		1															1			1																		
	0341	0478																																					
Y4 43+00	0342		1															1					1																
	0342	0345																																					
Y4WB 46+00	0344		1															1			1																		
	0344	0477																																					
Y4 46+50	0345		1															1					1																
	0345	0347																																					
Y4 50+00	0347		1															1					1																
	0347	0351																																					
Y4WB 49+75	0348		1															1			1																		
	0348	0350																																					
Y4WB 52+51	0350		1															1			1																		
	0350	353B																																					
Y4 52+50	0351		1															1					1																
	0351	0356																																					
Y4WB 54+74	0353		1	0.1														1			1																		
	0353	356B																																					
Y4WB 54+47	353A		1															1			1																		
	353A	0353																																					
Y4WB 54+00	353B		1															1			1																		
	353B	353A																																					
Y4WB 55+68	0355																																						
	0355	0007																																					
Y4 56+50	356A		1	2.2														1					1																
	356A	356B																																					
Y4WB 56+50	356B		1	4.2														1			1																		
	356B	0008																																					
Y4 54+48	0356		1														1					1	1																
	0356	356A																																					
SHEET TOTALS			19	9.8													2	15			8	1	13							2								2	4	

LINE & STATION	FROM	TO	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 D.I.	15" C.S. ELBOW	18" C.S. ELBOW	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
Y4WB 28+88	0327																	
	0327	0327A																
Y4WB 28+91	0327A														0.4500			
Y4 29+07	0328																	Special Detail, See Sheet 2C-1
Y4WB 32+00	0329																	
	0329	0330																
Y4WB 32+82	0330																	
	0330	0330A																
Y4WB 32+87	0330A														0.5500			
Y4 33+36	0331																	Special Detail, See Sheet 2C-1
Y4WB 32+69	0334																	DOUBLE PIPE
	0334	0330																
	0334	0335																
Y4WB 33+00	0335																	
Y4WB 38+75	0340																	
	0340	0480																
Y4 39+35	0337																	Special Detail, See Sheet 2C-1
Y4 39+35	0338																	Special Detail, See Sheet 2C-1
Y4WB 39+64	0339														0.4500			
	0339	0480																
Y4WB 43+00	0341																	
	0341	0478							2									
Y4 43+00	0342																	
	0342	0345																
Y4WB 46+00	0344																	
	0344	0477							2									
Y4 46+50	0345																	
	0345	0347																
Y4 50+00	0347																	
	0347	0351																
Y4WB 49+75	0348																	
	0348	0350																
Y4WB 52+51	0350																	
	0350	353B																
Y4 52+50	0351																	
	0351	0356																
Y4WB 54+74	0353																	
	0353	356B																
Y4WB 54+47	353A																	
	353A	0353																
Y4WB 54+00	353B																	
	353B	353A																
Y4WB 55+68	0355														0.7640			
	0355	0007																
Y4 56+50	356A																	
	356A	356B								2								
Y4WB 56+50	356B																	
	356B	0008																
Y4 54+48	0356																	
	0356	356A																
SHEET TOTALS									4	2					2.2140			

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

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