JSTANOVICH

COMPUTED BY:	Jake Stanovich	DATE:	06/23/2021
CHECKED BY:	Will Hines, PE	DATE:	06/23/2021

PROJECT NO.	SHEET NO.
I-5878	3D-13

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, or PVC) 15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
		5715	5716		187.5	187.3													
Y15 44+55	5 RT	5716		190.6															
		5716	5718		187.3	185.1													
Y15 45+14	51 RT	5717		183.4															
		5717	5718		183.4	182.9													
Y15 45+04	5 LT	5718		190.7															
		5718	5719		182.9	182.3													
Y15 46+17	4 LT	5720		190.2															
		5720	5721		187.0	184.8													
Y15 35+48	7 LT	5722		194.3															
		5722	5701		191.0	190.9													
Y15 39+70	7 LT	5723		192.5															
		5723	5710		189.3	189.0													
Y15 39+12	7 LT	5724		192.8															
		5724	5723		189.5	189.3													
Y15 45+60	5 LT	5725		190.5															
		5725	5720		187.3	187.0													
Y15 35+50	75 RT	5726		184.3															
		5726	5727		184.3	184.2							40			X	X	X	X
Y15 35+90	66 RT	5727		190.7															
		5727	5728		184.2	183.8							116			X	X	X	X
Y15 37+10	56 RT	5728		189.4															
		5728	5708		183.8	183.7							28			X	X	X	X
Y15 39+85	98 LT	5731		182.1															
Y15 42+18	94 LT	5733		187.4	181.6														
Y15 42+60	52 RT	5734	5735		187.0	186.7													
Y15 46+98	49 RT	5736	5736A		185.0	184.8													
SR12 10+34	1 RT	5801	5802		201.9	201.5													
		17100	1758		189.6	188.8													
Y14 19+91	47 RT	17100		192.6															
Y14 31+14	0 CL	17101	17101A		187.1	186.5													
		17102	17103		189.4	189.3			44							X	X	X	X
Y14RPC 15+34	92 RT	17102		192.8															
SR9A 15+69	0 CL	17104	17104A		191.6	191.3													
SR9A 10+32	0 CL	17105	17105A		190.7	190.4													
SR9 92+90	0 CL	17106	17116		187.6	184.5													
DR10 12+00	25 LT	17107		187.5															
		17107	17108		187.5	185.3													
		17108	17109		185.3	181.5		88								X	X	X	X
DR10 11+98	23 RT	17108		188.0															
Y14 20+27	45 RT	17110		196.0															
		17110	17100		192.7	189.6		36								X	X	X	X
L 964+00	85 RT	17111		191.2															
		17111	17112		189.2	186.6		264								X	X	X	X
L 966+68	90 RT	17112		188.8															
		17112	17113		186.6	186.5			36							X	X	X	X
L 962+00	115 LT	17114		188.9															
		17114	17115		185.6	184.7				292						X	X	X	X
Y14RPB 14+98	38 LT	17115		187.9															
		17115	17116		184.7	184.5				40						X	X	X	X
SHEET TOTALS								388	80	332			184						

FROM	TO	R. C. PIPE CLASS III 18	24	30	36	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 12	15	18	24	36	42
5715	5716					52												
5716																		
5716	5718					52												
5717																		
5717	5718										60							
5718																		
5718	5719										60							
5720																		
5720	5721					60												
5722																		
5722	5701					60												
5723																		
5723	5710					60												
5724																		
5724	5723					60												
5725																		
5725	5720					60												
5726																		
5726	5727																	
5727																		
5727	5728																	
5728																		
5728	5708																	
5731																		
5733																		
5734	5735							100										
5736	5736A						68											
5801	5802						60											
17100	1758																	
17100																		
17101	17101A			184														
17102	17103																	
17102																		
17104	17104A								92									
17105	17105A							80										
17106	17116								80									
17107																		
17107	17108					48												
17108	17109																	
17108																		
17110																		
17110	17100																	
17111																		
17111	17112																	
17112																		
17112	17113																	
17114																		
17114	17115																	
17115																		
17115	17116																	
SHEET TOTALS				184		452	128	180	172		120							

FROM	TO	QUANTITIES FOR SEALED DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5'	A 5' THRU 10'	B 10' AND ABOVE		16" DUCTILE IRON PIPE (CLASS 250) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	18" DUCTILE IRON PIPE (CLASS 250) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	36" DUCTILE IRON PIPE (CLASS 150) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	16" WELDED STEEL PIPE 0.281" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	18" WELDED STEEL PIPE 0.312" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	24" WELDED STEEL PIPE 0.375" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	30" WELDED STEEL PIPE 0.469" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	36" WELDED STEEL PIPE 0.532" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	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
5715	5716																						
5716															1							1	
5716	5718																						
5717														4.500									
5717	5718																						
5718															1	2.9						1	
5718	5719																						
5720															1							1	
5720	5721																						
5722															1							1	
5722	5701																						
5723															1							1	
5723	5710																						
5724															1							1	
5724	5723																						
5725															1							1	
5725	5720																						
5726														4.500									
5726	5727																						
5727															1	1.5							
5727	5728																						
5728															1	0.6							
5728	5708																						
5731														6.000									
5733															1	0.8							
5734	5735																						
5736	5736A																						
5801	5802													1.000									
17100	1758					64																	
17100															1			1	1				
17101	17101A																						
17102	17103																						
17102															1			1	1				
17104	17104A																						
17105	17105A																						
17106	17116																						
17107																							
17107	17108																						
17108	17109																						
17108															1								
17110															1								
17110	17100																						
17111															1								
17111	17112																						
17112															1								
17112	17113																						
17114															1								
17114	17115																						
17115															1								
17115	17116																						
SHEET TOTALS						64								16.000	18	5.8		2	2			7	

FROM	TO	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 W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	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	J.B. STD. 840.31 OR STD. 840.32	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	TEMPORARY 1" STEEL COVER	M.H. FRAME AND COVER STD. 840.54	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	BERM DITCH OUTLET STD. 850.11 (PER 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
5715	5716																												
5716			1	1																									
5716	5718																												
5717																													
5717	5718																												
5718			1	1																									
5718	5719																												
5720			1	1																									
5720	5721																												
5722			1	1																									
5722	5701																												
5723			1	1																									
5723	5710																												
5724			1	1																									
5724	5723																												
5725			1	1																									
5725	5720																												
5726																													
5726	5727																												
5727													1						1										
5727	5728																												
5728			1	1																									
5728	5708																												
5731																													
5733		1																											OTCB with 4 openings
5734	5735																												
5736	5736A																												
5801	5802																												
17100	1758																												
17100																													
17101	17101A																												
17102	17103																												
17102																													
17104	17104A																												
17105	17105A																												
17106	17116																												
17107																													
17107	17108																												
17108	17109																												
17108						1				1																			
17110		1																											
17110	17100																			2									
17111							1		1																				
17111	17112																												
17112							1		1																				
17112	17113																												
17114					1				1																				Special Detail Std. 840d17
17114	17115																												
17115					1				1																				Special Detail Std. 840d17
17115	17116																												
SHEET TOTALS		2	8	8	2	1	2		4	1			1						1	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