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TGSZJR-LAPTOP

COMPUTED BY:	Zachary Richard, PE	DATE:	10/12/2022
CHECKED BY:	David Petty, PE	DATE:	2/20/2026

PROJECT NO.	SHEET NO.
A-0009CD	3D-3

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	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) 15	18	24	30	36	42	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
		4808	4815		2030.7	2028.2	0.9		20					X			
Y2 146+00	42 RT	4809		2017.2													
		4809	4810		2014.2	1981.0	2.1										
Y2 149+90	29 RT	4811		2042.1													
		4811	4812		2037.7	2009.5	0.9										
Y2 139+60	30 RT	4813		1979.6													
		4813	4814		1974.6	1968.5		28						X			
Y2 148+78	31 RT	4815		2035.5													
		4815	4816		2028.2	2025.2											
Y2 147+70	31 RT	4816		2028.7													
		4816	4817		2025.2	2015.5											
Y2 146+62	31 RT	4817		2022.8													
		4817	4809		2015.5	2014.2	1.3		60						X	X	
Y2 151+22	42 RT	4818		2046.4													
		4818	4811		2043.4	2037.7	0.9		128						X	X	
Y2 154+00	46 RT	4901		2056.2													
		4901	4908		2053.9	2053.8											
Y2 158+70	45 RT	4903		2072.3													
		4903	4904		2068.6	2065.6			72						X	X	
Y2 162+00	3 LT	4905		2063.9													
		4905	4906		2060.7	2055.7											
Y2 163+60	2 LT	4906		2058.9													
		4906	4907		2055.7	2048.9											
Y2 165+20	0 CL	4907		2052.1													
Y2 154+00	31 RT	4908		2058.9													
		4908	4902		2053.8	2053.1	0.5										
Y2 153+00	31 RT	4909		2055.7													
		4909	4910		2053.8	2053.7		12							X	X	
Y2 161+25	37 LT	4911		2063.6													
		4911	4912		2061.7	2061.6		12							X	X	
Y2 166+35	0 CL	5001		2047.0													
		5001	5002		2043.8	2041.7											
Y2 132+70	64 LT																
Y3A 10+64	1 RT																
Y2 158+67	32 RT																
Y2 163+61	14 LT																
Y2 99+58	24 LT																
Y2 99+60	19 LT																
Y2 99+81	9 LT																
Y2 99+87	21 RT																
Y3 11+95	27 LT																
Y2 104+63	26 RT																
Y2 107+97	1 RT																
Y2 141+19	11 LT																
Y2 132+36	9 RT																
Y2 132+37	59 RT																
Y2 132+70	49 LT																
Y2 142+72	17 LT																
Y2 146+10	69 LT																
Y2 145+96	20 LT																
SHEET TOTALS								52	280								

SIZE / THICKNESS OR GAUGE

LINE & STATION	FROM	TO	C. S. PIPE 15 (.064)	18 (.064)	24 (.064)	30 (.079)	36 (.079)	42 (.109)	48 (.109)	R. C. PIPE CLASS III 18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY
	4808	4815																				
Y2 146+00	4809																					
	4809	4810		124																		
Y2 149+90	4811																					
	4811	4812		132																		
Y2 139+60	4813																					
	4813	4814																				
Y2 148+78	4815																					
	4815	4816															104					
Y2 147+70	4816																					
	4816	4817															104					
Y2 146+62	4817																					
	4817	4809																				
Y2 151+22	4818																					
	4818	4811																				
Y2 154+00	4901																					
	4901	4908															16					
Y2 158+70	4903																					
	4903	4904																				
Y2 162+00	4905																					
	4905	4906														156						
Y2 163+60	4906																					
	4906	4907														156						
Y2 165+20	4907																					
Y2 154+00	4908																					
	4908	4902															84					
Y2 153+00	4909																					
	4909	4910																				
Y2 161+25	4911																					
	4911	4912																				
Y2 166+35	5001																					
	5001	5002														52						
SHEET TOTALS				256												364	308					

LINE & STATION	FROM	TO	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45	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. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	TEMP STEEL PLATE COVER SEE SHEET 2D-1	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	TB PRECAST DRAINAGE STRUCTURE STD. 840.46
	4808	4815																								
Y2 146+00	4809		1											1			1									
	4809	4810																								
Y2 149+90	4811		1																1						1	
	4811	4812																								
Y2 139+60	4813		1													1					1					
	4813	4814																								
Y2 148+78	4815		1	2.3										1		1										
	4815	4816																								
Y2 147+70	4816		1											1		1										
	4816	4817																								
Y2 146+62	4817		1	2.3										1		1										
	4817	4809																								
Y2 151+22	4818		1											1			1									
	4818	4811																								
Y2 154+00	4901		1												1		1									
	4901	4908																								
Y2 158+70	4903		1									1	1													
	4903	4904																								
Y2 162+00	4905		1							1						1					1					
	4905	4906																								
Y2 163+60	4906		1							1						1					1					
	4906	4907																								
Y2 165+20	4907		1	2.1						1						1					1					
Y2 154+00	4908		1	0.1										1		1										
	4908	4902																								
Y2 153+00	4909		1												1	1										
	4909	4910																								
Y2 161+25	4911		1												1	1										
	4911	4912																								
Y2 166+35	5001		1							1						1					1					
	5001	5002																								
SHEET TOTALS			16	6.8						4		1	1	6	3	11	3		1		5				1	

LINE & STATION	OFFSET	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 C.B. SEE SHT 2D-2	CONVERT EXISTING D.I. TO C.B. SEE SHT 2D-2	ADJUST D.I.	ADJUST M.H.	ADJUST C.B.	15" C.S. ELBOW, 0.064" THICK	18" C.S. ELBOW, 0.064" THICK	15" ELBOW	18" ELBOW	BERM DRAINAGE OUTLET STD. 850.10 (SY)	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
		4808	4815																		
Y2 146+00	42 RT	4809																			
		4809	4810										2								
Y2 149+90	29 RT	4811																			
		4811	4812										2								
Y2 139+60	30 RT	4813																			
		4813	4814																		
Y2 148+78	31 RT	4815																			
		4815	4816																		
Y2 147+70	31 RT	4816																			
		4816	4817																		
Y2 146+62	31 RT	4817																			
		4817	4809																		
Y2 151+22	42 RT	4818																			
		4818	4811																		
Y2 154+00	46 RT	4901																			
		4901	4908																		
Y2 158+70	45 RT	4903																			
		4903	4904																		
Y2 162+00	3 LT	4905																			CONFIRM EX 15" LOCATION, SEE NOTE ON PLANS.
		4905	4906																		EX INV UNKNOWN. SEE NOTE ON PLANS.
Y2 163+60	2 LT	4906																			
		4906	4907																		
Y2 165+20	0 CL	4907																			EX INV UNKNOWN. SEE NOTE ON PLANS.
Y2 154+00	31 RT	4908																			
		4908	4902																		
Y2 153+00	31 RT	4909																			
		4909	4910																		
Y2 161+25	37 LT	4911																			
		4911	4912																		
Y2 166+35	0 CL	5001																			
		5001	5002																		
Y2 132+70	64 LT																		0.013		Plug 8" HDPE.
Y3A 10+64	1 RT																			49	
Y2 158+67	32 RT																			29	
Y2 163+61	14 LT																			317	
Y2 99+58	24 LT																			30	Remove 18"
Y2 99+60	19 LT																			31	Remove 18" CMP (flowable filled from A-0009CE)
Y2 99+81	9 LT																			10	Remove 66" CMP
Y2 99+87	21 RT																			52	Remove 66" CMP
Y3 11+95	27 LT																			21	
Y2 104+63	26 RT																			49	
Y2 107+97	1 RT																			20	
Y2 141+19	11 LT																108				
Y2 132+36	9 RT																			110	
Y2 132+37	59 RT																			69	
Y2 132+70	49 LT																			29	
Y2 142+72	17 LT																5				
Y2 146+10	69 LT																			20	
Y2 145+96	20 LT																5				
SHEET TOTALS													4				118		0.013	836	

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