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TGSZJR-LAPTOP

COMPUTED BY:	Zachary Richard, PE	DATE:	3/23/2022
CHECKED BY:	David Petty, PE	DATE:	5/25/2022

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
A-0009CB	3D-8

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) 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
L 395+15	47 LT	3312		3080.2															
		3312	3313		3077.0	3076.6													
L 394+56	86 LT	3313		3084.5															
		3313	3314		3076.3	3075.6													
L 393+80	28 RT	3314		3085.9															
		3314	3315		3075.6	3075.3	0.9		32							X	X		
L 396+65	26 RT	3316		3067.2															
		3316	3317		3064.0	3063.8													
L 396+30	26 RT	3317		3069.5															
		3317	3318		3063.8	3045.0													
L 399+00	46 LT	3319		3066.2															
		3319	3320		3044.9	3044.8													
L 399+00	41 LT	3320		3048.7															
		3320	3327		3044.8	3044.5	0.3												
L 401+00	54 LT	3322		3048.0															
		3322	3323		3046.5	3042.1													
L 401+00	45 LT	3323		3045.1															
		3323	3324		3028.8	3028.7													
L 401+00	41 LT	3324		3032.7															
		3324	3325		3028.7	3020.7													
L 402+17	42 LT	3325		3024.2															
		3325	3326		3020.7	3019.6													
L 398+94	22 RT	3327		3051.9															
		3327	3321		3044.5	3044.3	0.4		24							X	X		
L 402+95	31 RT	3328						36											
L 405+50	34 LT	3401		3005.0															
		3401	3404		3001.8	2999.2													
L 406+00	45 LT	3402		3005.5															
		3402	3403		3004.0	3001.4	0.3												
L 406+00	36 LT	3403		3004.4															
		3403	3404		2998.8	2998.7	0.4												
L 406+00	32 LT	3404		3002.4															
		3404	3405		2998.7	2997.1	0.6												
L 406+00	22 RT	3405		3000.6															
		3405	3406		2997.1	2992.3	0.7												
L 406+60	22 RT	3406		2995.8															
		3406	3407		2989.8	2988.0	3.0												
L 409+20	51 LT	3408		2976.5															
		3408	3409		2974.5	2972.3													
L 409+20	22 RT	3409		2977.3															
		3409	3410		2972.3	2968.4													
L 409+75	22 RT	3410		2973.4															
		3410	3411		2968.4	2960.0	0.9												
L 412+82	44 LT	3412		2950.4															
		3412	3413		2948.4	2947.4													
L 412+82	22 RT	3413		2952.4															
		3413	3414		2947.4	2943.2													
L 413+47	22 RT	3414		2948.2															
		3414	3415		2943.2	2921.3	0.7												
L 384+22	149 RT																		
						SHEET TOTALS		36	56										

LINE & STATION / SIZE / THICKNESS OR GAUGE	C. S. PIPE .064	15	.064	18	.064	24	.064	30	.064	36	.064	42	.064	48	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42	48
L 395+15																												
																						68						
L 394+56																												
																136												
L 393+80																												
L 396+65																												
																						32						
L 396+30																												
L 399+00																												
																							4					
L 399+00																												
																							60					
L 401+00																												
				8																								
L 401+00																												
																							4					
L 401+00																												
																							108					
L 402+17																												
																							108					
L 398+94																												
L 402+95																												
L 405+50																												
																						48						
L 406+00																												
				8																								
L 406+00																												
																							4					
L 406+00																												
																							52					
L 406+00																												
																							56					
L 406+60																												
																							36					
L 409+20																												
																	72											
L 409+20																												
																	52											
L 409+75																												
				32																								
L 412+82																												
																	68											
L 412+82																												
																	60											
L 413+47																												
				44																								
L 384+22																												
SHEET TOTALS		40		16		76										136	252					148	432					

LINE & STATION / SIZE / THICKNESS OR GAUGE	36" CAA PIPE, 0.075" THICK	48" CAA PIPE, 0.105" THICK	36" WELDED STEEL PIPE 0.5" THICK, GRADE B, IN SOIL	36" WELDED STEEL PIPE 0.5" THICK, GRADE B, NOT IN SOIL	18" PIPE REHABILITATION CIPP LINER	24" PIPE REHABILITATION CIPP LINER	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.	4-SIDED OTCB, SEE DETAIL SHEET 2D-1	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, 840.26, OR 840.45	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/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	6" PVC PIPE (SPRING BOX)	SPRING BOX STD. 840.41	6" HDPE PIPE (LF)	M.H. FRAME AND COVER STD. 840.54	TB PRECAST DRAINAGE STRUCTURE STD. 840.46	PRECAST 4' DIA MH STD 840.52	CONTRACTOR DESIGN 4' DIA MH OVER 30'	T.B. G.D.I TYPE "A" SEE SHEET 2D-3	CONVERT EXISTING D.I. TO J.B. SEE SHEET 2D-2	ADJUST D.I.	MIN DEPTH TYPE A SPECIAL DSN SEE SHEET 2D-7	15" C.S. ELBOW, 0.064" THICK	18" C.S. ELBOW, 0.064" THICK	24" C.S. ELBOW, 0.064" THICK	30" C.S. ELBOW, 0.064" THICK	36" C.S. ELBOW, 0.064" THICK	42" C.S. ELBOW, 0.064" THICK	48" C.S. ELBOW, 0.064" THICK	48" C.A.A. ELBOW, 0.105" THICK	BERM DRAINAGE OUTLET STD. 850.10 (SY)	BERM DRAINAGE OUTLET STD. 850.11 (SY)	BERM DRAINAGE OUTLET 36" DSN,SHT 2D-4 (SY)	BERM DRAINAGE OUTLET 42" DSN,SHT 2D-5 (SY)	BERM DRAINAGE OUTLET 48" DSN,SHT 2D-6 (SY)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 395+15								1						1																																								
L 394+56								1	3.2					1		1																																						
L 393+80								1	5.0	0.3						1						1																																
L 396+65								1								1						1																																
L 396+30								1	0.7							1						1																																
																																						2																
L 399+00								1	5.0	11.3								1														1																						
L 399+00								1								1						1																																
L 401+00																																																			11				
																																						1																
L 401+00								1	5.0	6.3								1														1																						
L 401+00								1									1																																					
L 402+17								1									1																																					
L 398+94								1	2.4								1																																					
L 402+95																																																						
L 405+50								1									1																																					
L 406+00																																																			11				
																																						1																
L 406+00								1	0.6					1			1																																					
L 406+00								1									1																																					
L 406+00								1									1																																					
L 406+00								1									1																																					
L 406+60								1	1.0								1																																					
L 409+20																																																						
L 409+20								1									1																			1																		
L 409+75								1									1																			1																		
																																								2														
L 412+82							1.500																																															
L 412+82								1									1																			1																		
L 413+47								1									1																			1																		
																																								2														
L 384+22																																																						28
SHEET TOTALS							1.500	20	22.9	17.9				3		17		3			11				1	1		4			2	2	4					22							28	

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