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LD60070

COMPUTED BY: SRG DATE: 11-13-2019

CHECKED BY: JDL DATE: 11-13-2019

PROJECT NO.	SHEET NO.
U-5724	3D-4

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 %
L 46+88	36	RT	0620					
L 41+95	47	LT	0619					
Y2 33+40	22	LT	0701		113.9			
			0701	0915		111.6	111.4	
Y2 33+50	22	LT	0702		113.9			
			0702	0701		111.7	111.6	
Y2 36+92	22	LT	0705		113.2			
			0705	0706		111.0	111.0	
Y2 37+03	22	LT	0706		113.2			
			0706	0704		111.0	110.9	
Y2 41+02	22	LT	0707		113.2			
			0707	0708		111.0	110.9	
Y2 41+13	22	LT	0708		113.2			
			0708	0710		110.9	110.5	
Y2 42+50	22	LT	0710		114.2			
			0710	0709		110.5	110.5	
Y2 36+92	22	RT	0712		113.2			
			0712	0713		111.0	111.0	
Y2 37+03	22	RT	0713		113.2			
			0713	0711		111.0	110.9	
Y2 41+02	22	RT	0714		113.2			
			0714	0715		111.0	110.9	
Y2 41+13	22	RT	0715		113.2			
			0715	0716		110.9	110.9	
L 53+46	0	CL	0717	0703		111.7	111.4	
L 51+30	22	LT	0718		114.8			
			0718	0719		110.3	110.3	
L 49+50	22	RT	0720		114.3			
			0720	0721		110.8	110.4	
L 51+30	22	RT	0721		114.8			
			0721	0718		110.4	110.3	
L 51+30	38	RT	0722	0721		112.3	111.8	
L 49+50	38	RT	0723	0720		111.2	110.8	
Y2 38+67	45	LT	0724					
Y2 38+72	41	RT	0725					
Y2 41+90	46	LT	0726					
Y2 41+90	42	RT	0727					
L 53+64	42	RT	0728					
L 54+50	33	RT	0729					
Y2 10+66	39	RT	0802	0803		109.0	108.4	
Y2 10+75	22	RT	0803		111.4			
			0803	0801		107.3	107.1	
Y2 12+16	22	RT	0804		110.9			
			0804	0803		107.7	107.3	
Y2 12+62	22	RT	0805		111.2			
			0805	0804		108.0	107.7	
Y2 13+90	22	RT	0806		111.6			
			0806	0805		108.3	108.0	
Y2 13+90	22	LT	0807		111.8			
			0807	0806		108.5	108.3	

From	To	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC)													C. S. PIPE						
SIZE		12	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	15	18	24	30	36	42	48
THICKNESS OR GAUGE															.064	.064	.064	.079	.079	.109	.109
0620																					
0619																					
0701																					
0701	0915																				
0702																					
0702	0701																				
0705																					
0705	0706																				
0706																					
0706	0704		20																		
0707																					
0707	0708																				
0708																					
0708	0710																				
0710																					
0710	0709		24																		
0712																					
0712	0713																				
0713																					
0713	0711		20																		
0714																					
0714	0715																				
0715																					
0715	0716		20																		
0717	0703																				
0718																					
0718	0719					28															
0720																					
0720	0721																				
0721																					
0721	0718																				
0722	0721		16																		
0723	0720		16																		
0724						40															
0725																					
0726						44															
0727																					
0728																					
0729																					
0802	0803		20																		
0803																					
0803	0801																				
0804																					
0804	0803																				
0805																					
0805	0804																				
0806																					
0806	0805																				
0807																					
0807	0806																				
SHEET TOTALS			136			112															

From	To	R. C. PIPE CLASS III								R. C. PIPE CLASS IV								R. C. PIPE CLASS V							
SIZE		12	15	18	24	30	36	42	48	12	15	18	24	30	36	42	48	12	15	18	24	30	36	42	48
0620																									
0619																									
0701																									
0701	0915																		136						
0702																									
0702	0701																		8						
0705																									
0705	0706																		8						
0706																									
0706	0704																								
0707																									
0707	0708																		8						
0708																									
0708	0710																		136						
0710																									
0710	0709																								
0712																									
0712	0713																		12						
0713																									
0713	0711																								
0714																									
0714	0715																		8						
0715																									
0715	0716																								
0717	0703																			84					
0718																									
0718	0719																								
0720																									
0720	0721																				180				
0721																									
0721	0718												44												
0722	0721																								
0723	0720																								
0724																									
0725																									
0726																									
0727																									
0728											48														
0729																									
0802	0803																								
0803																									
0803	0801																			84					
0804																									
0804	0803																			124					
0805																									
0805	0804																			40					
0806																									
0806	0805																			128					
0807																									
0807	0806																			44					
SHEET TOTALS											48		44						316	504	180				

From	To	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G	
0620		36												
0619		44												
0701							1				1			
0701	0915													
0702							1					1		
0702	0701													
0705							1				1			
0705	0706													
0706							1					1		
0706	0704													
0707							1						1	
0707	0708													
0708							1				1			
0708	0710													
0710							1			1		1		
0710	0709													
0712							1				1			
0712	0713													
0713							1						1	
0713	0711													
0714							1					1		
0714	0715													
0715							1				1			
0715	0716													
0717	0703													
0718							1			1		1		
0718	0719													
0720							1						1	
0720	0721													
0721							1			1			1	
0721	0718													
0722	0721													
0723	0720													
0724														
0725				44										
0726														
0727				48										
0728														
0729		44												
0802	0803													
0803							1			1			1	
0803	0801													
0804							1			1	1			
0804	0803													
0805							1			1			1	
0805	0804													
0806							1			1			1	
0806	0805													
0807							1			1		1		
0807	0806													
SHEET TOTALS		124		92			19			8	6	6	7	

From	To	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04	D.I. STD. 840.14	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17	G.D.I. TYPE "B" STD. 840.18	G.D.I. TYPE "D" STD. 840.19	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	J.B. STD. 840.31	T.B.J.B. STD. 840.34	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	CB STD. 840D02 (SPECIAL DETAIL)	DI STD. 840D14 (SPECIAL DETAIL)	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
0620																							
0619																							
0701																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0701	0915																						
0702																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0702	0701																						
0705																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0705	0706																						
0706																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0706	0704																						
0707																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0707	0708																						
0708																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0708	0710																						
0710																							
0710	0709																						
0712																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0712	0713																						
0713																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0713	0711																						
0714																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0714	0715																						
0715																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0715	0716																						
0717	0703																						
0718																							
0718	0719																						
0720																	1						SPECIAL DESIGN, SEE DETAIL 840D02 SHEET 2C-2
0720	0721																						
0721																							
0721	0718																						
0722	0721																						
0723	0720																						
0724																							
0725																							
0726																							
0727																							
0728																							
0729																							
0802	0803																						
0803																							
0803	0801																						
0804																							
0804	0803																						
0805																							
0805	0804																						
0806																							
0806	0805																						
0807																							
0807	0806																						
SHEET TOTALS																	11						

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