RALD071

COMPUTED BY:	Allen Hodges	DATE:	12/8/15
CHECKED BY:	Benton Carroll	DATE:	12/9/15

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-2524D	3D-3

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 %	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	C. S. PIPE 15 .064	18 .064	24 .064	30 .079	36 .079	42 .109	48 .109
		0621	0623		854.8	851.4																				
Y6 19+62	22 LT	0622		854.4																						
		0622	0623		850.9	850.7																				
Y6 19+62	22 RT	0623		854.9																						
		0623	1102		850.7	847.8																				
Y6 19+63	39 RT	0624		853.6																						
		0624	0623		851.3	851.2																				
Y6 26+87	22 LT	0625		854.9																						
		0625	1203		851.2	850.3																				
Y6 26+87	22 RT	0626		854.9																						
		0626	0625		851.4	851.2																				
Y6 22+15	14 LT	0627																								
L 447+45	91 RT	0628		831.3																						
		0628	0615		282.5	826.4																				
		EX	0633		EX	813.4																	24				
L 443+50	95 RT	0633		817.4																						
		0633	0606		813.4	812.5	0.4																			
L 444+00	70 LT	0634		823.1																						
		0634	0630		817.8	817.5	0.6																			
L 451+70	0 CL	0701		836.8																						
		0701	0702		834.1	833.0	1.2																			
L 451+70	70 LT	0702		836.9																						
		0702	0725		830.5	829.7																				
L 451+70	93 RT	0703		839.9																						
		0703	0701		837.1	834.1	0.4																			
L 451+48	108 RT	0704		845.2																						
		0704	0703		842.9	837.1		24							X			X	X							
L 458+03	115 LT	0706		827.1																						
		0706	0710		822.4	820.7	0.4																			
Y7A 11+60	12 LT	0707		830.5																						
		0707	0709		827.5	826.9																				
Y7A 13+17	12 LT	0708		833.8																						
		0708	0729		829.5	826.3	1.2																			
		0709	0710		825.4	820.2	0.5																			
Y7A 12+05	12 LT	0709		829.9																						
L 459+51	108 LT	0710		825.4																						
		0710	0728		819.7	818.2	0.4																			
L 461+50	0 CL	0711		832.0																						
		0711	0802		828.8	816.4	1.1																			
L 458+00	71 LT	0712		836.8																						
		0712	0713		833.3	832.9																				
L 458+00	0 CL	0713		837.7																						
		0713	0711		832.9	829.2	0.7																			
L 461+50	71 LT	0714		833.0																						
		0714	0711		829.4	829.1																				
L 455+17	86 RT	0715		848.3																						
		0715	0726		846.1	842.5		136										X	X							
PED 16+90	13 RT	0716		856.8																						
		0716	0718		854.0	853.7																				
PED 16+23	45 RT	0717		855.9																						
SHEET TOTALS								160														24				

LINE & STATION	FROM	TO	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48
	0621	0623		112																						
Y6 19+62	0622																									
	0622	0623										40														
Y6 19+62	0623																									
	0623	1102		180																						
Y6 19+63	0624																									
	0624	0623										16														
Y6 26+87	0625																									
	0625	1203										144														
Y6 26+87	0626																									
	0626	0625										44														
Y6 22+15	0627																									
L 447+45	0628																									
	0628	0615		76																						
	EX	0633																								
L 443+50	0633																									
	0633	0606													176											
L 444+00	0634																									
	0634	0630		16																						
L 451+70	0701																									
	0701	0702		72																						
L 451+70	0702																									
	0702	0725												164												
L 451+70	0703																									
	0703	0701		92																						
L 451+48	0704																									
	0704	0703																								
L 458+03	0706																									
	0706	0710				140																				
Y7A 11+60	0707																									
	0707	0709										44														
Y7A 13+17	0708																									
	0708	0729												52												
	0709	0710													68											
Y7A 12+05	0709																									
L 459+51	0710																									
	0710	0728						272																		
L 461+50	0711																									
	0711	0802			548																					
L 458+00	0712																									
	0712	0713										72														
L 458+00	0713																									
	0713	0711		348																						
L 461+50	0714																									
	0714	0711										72														
L 455+17	0715																									
	0715	0726																								
PED 16+90	0716																									
	0716	0718		68																						
PED 16+23	0717																									
SHEET TOTALS				964	548	140		272				432		216	244											

LINE & STATION	FROM	TO	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	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. (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/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR STD. 840.32	SPECIAL DESIGN JB (See Detail Sht.)	T.B.D.I. STD. 840.35	OPEN THROAT CATCH BASIN SPECIAL DESIGN	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	ADJUST M.H.	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	15" C.S. ELBOW	18" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10	BERM DITCH OUTLET STD. 850.11	30" SLUICE GATE 38.8" SIZE SLUICE GATE)	36" SLUICE GATE 46" SIZE SLUICE GATE)	FLOWABLE FILL CY	PIPE REMOVAL LIN. FT.	REMARKS
	0621	0623																																								
Y6 19+62	0622			1			1		1																																	
	0622	0623																																								
Y6 19+62	0623			1			1			1																																
	0623	1102																																								
Y6 19+63	0624			1										1	1																											
	0624	0623																																								
Y6 26+87	0625			1			1			1																																
	0625	1203																																								
Y6 26+87	0626			1			1		1																																	
	0626	0625																																								
Y6 22+15	0627																												1													
L 447+45	0628			1													1			1																						
	0628	0615																																								
	EX	0633																																								
L 443+50	0633			1									1																													
	0633	0606																																								
L 444+00	0634			1	0.3												1	1																								
	0634	0630																																								
L 451+70	0701			1													1			1																						
	0701	0702																																								
L 451+70	0702			1	1.4											1		1																								
	0702	0725																																								
L 451+70	0703			1													1			1																						
	0703	0701																																								
L 451+48	0704			1										1	1																											
	0704	0703																												2												
L 458+03	0706			1												1				1																						
	0706	0710																																								
Y7A 11+60	0707			1			1			1																																
	0707	0709																																								
Y7A 13+17	0708			1			1		1																																	
	0708	0729																																								
	0709	0710																																								
Y7A 12+05	0709			1			1	1																																		
L 459+51	0710			1	0.8											1			1	1																						
	0710	0728																																								
L 461+50	0711			1													1			1																						
	0711	0802																																								
L 458+00	0712			1													1	1																								
	0712	0713																																								
L 458+00	0713			1													1			1																						
	0713	0711																																								
L 461+50	0714			1													1	1																								
	0714	0711																																								
L 455+17	0715			1										1	1																											
	0715	0726																																								
PED 16+90	0716			1													1				1																					
	0716	0718																																								
PED 16+23	0717			1										1	1																											
SHEET TOTALS				24	2.5		7	1	3	3			1	4	4	3	9	4	1	7	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