RA-1553

COMPUTED BY: T.A.HARRIS DATE: 6/6/13

CHECKED BY: VBARODAWALA DATE: 5/12/14

PROJECT NO.	SHEET NO.
R-2514C	3D-2

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 %	Side drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 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
L 44+00	10 LT	0610		44.2	40.2															
		0610	0611		40.2	36.0														
L 38+75	18 LT	0612		45.8	42.6															
L 45+75	18 RT	0613		46.2	43.0															
		0613	0713		43.0	42.7														
L 37+36	94 LT	0614									32						X			
L 54+30	0 CL	0701		42.2	37.5															
		0701	0702		37.5	36.8														
L 53+79	80 LT																			
L 47+48	112 LT	0703									32						X			
L 48+09	79 LT																			
L 48+73	108 LT	0704									36						X			
L 49+00	0 CL									100										
L 50+33	102 LT	0705									32						X			
L 51+59	0 CL																			
L 52+37	99 LT	0706									28						X			
L 54+72	101 LT	0707									36						X			
L 55+92	101 LT	0708									32						X			
L 56+77	102 LT	0709									32						X			
L 57+31	100 LT	0710									28						X			
L 58+25	101 LT	0711									32						X			
L 46+34	108 LT	0712									68						X			
L 46+20	14 RT	0713		45.9	42.7															
		0713	0714		42.7	40.3														
L 46+90	0 CL	0714		43.0	40.3															
		0714	0715		40.3	36.2														
L 71+70	14 LT	0801		47.3	43.3															
		0801	0802		43.3	43.5														
		0801	0803		43.3	38.3														
L 72+50	10 RT	0802		46.5	43.5															
L 73+41	78 LT																			
L 65+87	0 CL	0804		43.1	38.8															
		0804	0805		38.8	37.7														
L 60+70	99 LT	0806									28						X			
L 63+05 / L 63+51	RT / 79 LT																			
L 64+56	88 LT	0807									28						X			
L 67+87	99 LT	0808								28							X			
L 68+00	0 CL									100										
L 69+09	98 LT	0809								28							X			
L 73+77	99 LT	0810							28								X			
L 87+46	58 LT	0901		52.0	46.8															
		0901	0903		46.8	38.6	0.5													
		0901	0902		46.8	47.0														
		0901	0907		46.8	49.4														
L 88+00	58 LT	0907		52.1	49.4															
L 87+46	0 CL	0902		50.0	47.0															
		0902	0904		47.0	49.3														
L 86+80	14 RT	0904		52.4	49.3															
		0904	0914		49.3	49.4														
L 77+45	0 CL	0905		46.6	43.6															
							SHEET TOTALS		28	256	444									

LINE & STATION	FROM	TO	C. A. A. PIPE 12 (.064)	15 (.064)	18 (.064)	24 (.064)	30 (.079)	36 (.079)	42 (.109)	48 (.109)	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
L 44+00	0610																																	
	0610	0611										92																						
L 38+75	0612																																	
L 45+75	0613																																	
	0613	0713										44																						
L 37+36	0614																																	
L 54+30	0701																																	
	0701	0702												100																				
L 53+79																																		
L 47+48	0703																																	
L 48+09																																		
L 48+73	0704																																	
L 49+00																																		
L 50+33	0705																																	
L 51+59																																		
L 52+37	0706																																	
L 54+72	0707																																	
L 55+92	0708																																	
L 56+77	0709																																	
L 57+31	0710																																	
L 58+25	0711																																	
L 46+34	0712																																	
L 46+20	0713																																	
	0713	0714										72																						
L 46+90	0714																																	
	0714	0715										112																						
L 71+70	0801																																	
	0801	0802																				84												
	0801	0803																				84												
L 72+50	0802																																	
L 73+41																																		
L 65+87	0804																																	
	0804	0805											88																					
L 60+70	0806																																	
L 63+05 / L 63+51																																		
L 64+56	0807																																	
L 67+87	0808																																	
L 68+00																																		
L 69+09	0809																																	
L 73+77	0810																																	
L 87+46	0901																																	
	0901	0903			52																													
	0901	0902											60																					
	0901	0907										56																						
L 88+00	0907																																	
L 87+46	0902																																	
	0902	0904										68																						
L 86+80	0904																																	
	0904	0914																											48							
L 77+45	0905																																	
SHEET TOTALS					52							444	148	100								168								48						

LINE & STATION	FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS 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. 840.01 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 "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	SPECIAL JB (SEE SPECIAL DETAIL 2C-3)	18" CAAP PIPE ELBOW	JB STD. 840.31 or 840.32	TB G.D.I. STD. 840.36	STEEL GRATE AND FRAME STD. 840.37	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 44+00	0610					1											1			1	1									
	0610	0611																												
L 38+75	0612					1							1		1	1														
L 45+75	0613					1							1		1	1														
	0613	0713																												
L 37+36	0614																													
L 54+30	0701					1											1			1	1								12	REMOVE 18" RCP
	0701	0702																												
L 53+79																													20	REMOVE 15" RCP
L 47+48	0703																												19	REMOVE 18" HDPE
L 48+09																													40	REMOVE 15" RCP
L 48+73	0704																												41	REMOVE 15" RCP
L 49+00																													100	TEMPORARY DRAINAGE, SEE SHEET TMP-23
L 50+33	0705																												17	REMOVE 15" RCP
L 51+59																													68	REMOVE 24" RCP
L 52+37	0706																												23	REMOVE 15" RCP
L 54+72	0707																												20	REMOVE 15" RCP
L 55+92	0708																												15	REMOVE 15" RCP
L 56+77	0709																												18	REMOVE 18" HDPE
L 57+31	0710																												24	REMOVE 15" RCP
L 58+25	0711																												31	REMOVE 15" RCP
L 46+34	0712																												21	REMOVE 15" RCP
L 46+20	0713					1							1		1	1														
	0713	0714																												
L 46+90	0714					1												1			1									
	0714	0715																												
L 71+70	0801					1							1		1	1														
	0801	0802																												
	0801	0803																												
L 72+50	0802					1												1			1									
L 73+41																													47	REMOVE 15" RCP
L 65+87	0804					1											1			1	1									
	0804	0805																												
L 60+70	0806																												24	REMOVE 15" RCP
L 63+05 / L 63+51																													30	REMOVE 15" RCP/18" RCP
L 64+56	0807																												17	REMOVE 15" RCP
L 67+87	0808																												16	REMOVE 15" RCP
L 68+00																													100	TEMPORARY DRAINAGE, SEE SHEET TMP-24
L 69+09	0809																												29	REMOVE 15" CMP
L 73+77	0810																												54	REMOVE 15" RCP
L 87+46	0901					1	0.2											1	1											
	0901	0903																					2							ROD & LUG W/ SLEEVE GASKET
	0901	0902																												
	0901	0907																												
L 88+00	0907					1												1	1											
L 87+46	0902					1												1			1									
	0902	0904																												
L 86+80	0904					1							1		1	1														
	0904	0914																												
L 77+45	0905					1												1			1									
SHEET TOTALS						14	0.2						5		5	5	3	6	2	3	7		2						786	

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