COMPUTED BY: JCL DATE: 12/30/14
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PROJECT REFERENCE NO. R-3622B | SHEET NO. 3D-5

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUB–REGIONAL & REGIONAL
LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300–5".

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) 4"	6"	8"	12"	15"	18"	24"	30"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC
113+95 -L-	C/L	1107	1108		1684.0'	1675.1'														
117+30 -L-	LT	1201		1679.1'	1675.2'															
	LT	1201	1202		1675.2'	1667.6'														
119+60 -L-	LT	1202		1671.6'	1667.6'															
119+60 -L-	C/L	1202	1210		1667.6'	1667.5'														
119+60 -L-	RT	1210		1671.5'	1664.2'															
119+60 -L-	RT	1210	1203		1664.2'	1663.9'														
121+90 -L-	RT	1203A							12'							X	X	X	X	
121+90 -L-	LT	1204		1667.5'	1664.3'															
	LT	1204	1204A		1664.3'	1663.6'														
122+85 -L-	LT	1204A		1666.8'	1661.4'															
122+85 -L-	LT	1204B	1204A		1665.3'	1661.4'														
	LT	1204A	1205		1661.4'	1659.9'														
124+20 -L-	LT	1205		1665.3'	1659.9'															
	LT	1205	1207		1659.9'	1657.8'														
125+80 -L-	LT	1207		1664.2'	1657.8'															
125+80 -L-	LT	1206	1207		1660.1'	1660.1'														
125+77 -L-	C/L	1207	1208		1657.8'	1657.5'														
126+17 -L-	LT	1209		1664.1'	1660.9'															
	LT	1209	1207		1660.9'	1657.8'														
PAGE TOTAL									12'											
GRAND TOTAL								24'	100'	60'	20'	56'	76'							
SAY																				
								TEMPORARY PIPE SUMMARY												
84+50 -LTemp-	RT	0914											48'							
86+00 -LTemp-	RT	0915											48'							
GRAND TOTAL													172'							

STATION	FROM	TO	C.S. PIPE 12" .064	15" .064	18" .064	24" .064	30" .079	36" .109	42" .109	R.C. PIPE (CLASS III) 15"	18"	24"	30"	36"	42"	WELDED STEEL PIPE 36" 0.5"	R.C. PIPE (CLASS IV) 36"	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE
113+95 -L-	1107	1108				84'														
117+30 -L-	1201																			
	1201	1202								228'										
119+60 -L-	1202																			
119+60 -L-	1202	1210								28'										
119+60 -L-	1210																			
119+60 -L-	1210	1203		16'																
121+90 -L-	1203A																			
121+90 -L-	1204																			
	1204	1204A								92'										
122+85 -L-	1204A																			
122+85 -L-	1204B	1204A							16'											
	1204A	1205													132'					
124+20 -L-	1205																			
	1205	1207													156'					
125+80 -L-	1207																			
125+80 -L-	1206	1207											20'							
125+77 -L-	1207	1208													60'					
126+17 -L-	1209																			
	1209	1207								36'										
PAGE TOTAL				16'		84'			16'	384'			20'		348'					
GRAND TOTAL			20'	160'	288'	268'	276'	24'	16'	1820'	740'	868'	632'	192'	348'	48'	108'	124'	52'	20'

STATION	FROM	TO	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	LIN. *FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE	T.B.D.I. STD. 840.35	SPECIAL T.B.D.I. (SEE SHEET 2C–1 FOR DETAIL)	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. TYPE "D" STD. 840.19 OR STD 840.28	G.D.I. (W.X. 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	G.D.I. (N.S. SAG) FRAME W/GRATE STD 840.29	G.D.I. (N.S. FLAT) FRAME W/2 GRATES STD. 840.29
113+95 -L-	1107	1108																
117+30 -L-	1201				1			1										1
	1201	1202																
119+60 -L-	1202				1			1										1
119+60 -L-	1202	1210																
119+60 -L-	1210				1			1								1		
119+60 -L-	1210	1203	0.70															
121+90 -L-	1203A				1													
121+90 -L-	1204				1			1										1
	1204	1204A																
122+85 -L-	1204A				1	0.4'			1									1
122+85 -L-	1204B	1204A	3.80															
	1204A	1205																
124+20 -L-	1205				1	0.4'			1									1
	1205	1207																
125+80 -L-	1207				1	1.4'												
125+80 -L-	1206	1207	2.30															
125+77 -L-	1207	1208																
126+17 -L-	1209				1			1										1
	1209	1207																
PAGE TOTAL			6.80		9	2.2'		5	2							1		6
GRAND TOTAL			27.70		70	42.2'	1.9'	35	8	3	9	8				20		43
						44.7'												
SAY			28.00			45.0'												

STATION	FROM	TO	G.D.I. (N.S.) WITH GRATE FOR DRIVEWAY STD 840.30	J.B. STD. 840.31 OR 840.32	T.B.J.B STD. 840.34	SPRING BOX STD 840.41	M.H. FRAME AND COVER STD. 840.54	18" CS SLOTTED DRAIN –SEE SHEET 2C–5 FOR DETAIL	8"X8"X15" HDPE TEE	15"X15"X15" HDPE TEE	##" DRAINAGE PIPE ELBOW	12" C.S. ELBOW	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 OR 850.11 (SY)	SPECIAL BERM DITCH OUTLET (SEE SHEET 2C–2)	CONC. COLLARS CL. "B" C.Y. (SEE SHEET 2C–3)	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
113+95 -L-	1107	1108																					Remove Exist. 24" CMP, Preformed Scour Hole at Outlet
117+30 -L-	1201																						
	1201	1202																					
119+60 -L-	1202																						
119+60 -L-	1202	1210																					
119+60 -L-	1210																						
119+60 -L-	1210	1203											2										Endwall on Outlet
121+90 -L-	1203A					1																	
121+90 -L-	1204																						
	1204	1204A																					
122+85 -L-	1204A																						
122+85 -L-	1204B	1204A																					Endwall on Inlet
	1204A	1205																					
124+20 -L-	1205																						
	1205	1207																					
125+80 -L-	1207				1		1																
125+80 -L-	1206	1207																					Endwall on Inlet
125+77 -L-	1207	1208																					Remove Exist. 24" CMP.
126+17 -L-	1209																						
	1209	1207																					
PAGE TOTAL					1	1	1						2										
GRAND TOTAL				1	3	3	4	24'	3	1		2	12	10	10	4	2	210	32	2.760		1349'	
																		242					
SAY																		250		3.0			
84+50 -LTemp-	0914																					48'	
86+00 -LTemp-	0915																					48'	
GRAND TOTAL																						1445'	

ABBREVIATIONS

C.B. CATCH BASIN
N.D.I. NARROW DROP INLET
D.I. DROP INLET
G.D.I. GRATED DROP INLET
G.D.I. (N.S.) GRATED DROP INLET (NARROW SLOT)
J.B. JUNCTION BOX
M.H. MANHOLE
T.B.D.I. TRAFFIC BEARING DROP INLET
T.B.J.B. TRAFFIC BEARING JUNCTION BOX