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PROJECT REFERENCE NO.	SHEET NO.
R-5206	3D-2

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48” & UNDER)

STATION	LOCATION (LT,RT, OR CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL
-L- 42+21	RT	0614		2250.1			
-L- 53+86	LT	0701		2193.6			
		0701	0706		2190.9	2186.6	
-L- 55+67	LT	0702		2189.0			
		0702	0703		2185.7	2184.4	X
-L- 56+56	LT	0703		2187.5			
		0703	0704		2182.7	2181.8	X
		0706	0702		2186.6	2185.7	X
-L- 54+78	LT	0705		2196.4			
		0705	0706		2186.9	2186.6	X
-L- 54+78	LT	0706		2190.7			
-L- 56+56	LT	0708		2188.9			
		0708	0703		2183.7	2183.6	X
		0709	0710		2183.0	2180.1	X
-L- 58+65	LT	0710		2184.5			
		0711	0710		2185.0	2180.9	
		0710	0710A		2180.1	2179.2	X
-L- 59+00	LT	0710A		2184.0			
		0710A	0710B		2179.2	2178.6	
-L- 59+50	LT	0710B		2183.3			
		0710B	0712		2178.6	2178.4	
-L- 59+73	LT	0712		2183.2			
		0712	0714		2178.4	2176.7	X
-L- 60+69	LT	0714		2181.4			
		0714	0713		2176.7	2172.9	X
		0715	0716		2182.8	2179.8	
-L- 62+55	LT	0716		2182.7			
		0716	0717		2179.8	2178.4	
-L- 63+00	LT	0717		2181.2			
		0717	0718		2178.4	2175.9	
-L- 63+50	LT	0718		2179.1			
		0718	0719		2174.5	2172.9	X
-L- 63+96	LT	0719		2177.5			
		0719	0720		2172.9	2171.8	X
-L- 64+37	CL	0721			2170.8	2168.6	X
-L- 64+50	LT	0722		2175.3			
		0722	0722A		2172.0	2170.2	
-L- 65+00	LT	0722A		2173.51			
		0722A	0722B		2170.2	2168.2	
-L- 65+50	LT	0722B		2171.52			
		0722B	0723		2168.2	2166.2	
-L- 66+00	LT	0723		2169.53			
		0723	0723A		2166.2	2164.5	
-L- 66+45	LT	0723A		2167.8			
		0723A	0723B		2164.5	2162.8	
-L- 66+95	LT	0723B		2166.1			
		0723B	0802		2162.8	2160.1	
-L- 66+67	LT	0802		6163.4			
SHEET TOTALS							

STATION	FROM	TO	CLASS III R.C. PIPE 12″	15″	18″	24″	30″	36″	42″	48″	C.S. PIPE 12″ .064	15″ .064	18″ .064	24″ .064	30″ .079	36″ .079	42″ .109	48″ .109
-L- 42+21	0614																	
-L- 53+86	0701																	
	0701	0706																
-L- 55+67	0702																	
	0702	0703																
-L- 56+56	0703																	
	0703	0704																
	0706	0702																
-L- 54+78	0705																	
	0705	0706																
-L- 54+78	0706																	
-L- 56+56	0708																	
	0708	0703																
	0709	0710																
-L- 58+65	0710																	
	0711	0710										12						
	0710	0710A																
-L- 59+00	0710A																	
	0710A	0710B																
-L- 59+50	0710B																	
	0710B	0712																
-L- 59+73	0712																	
	0712	0714																
-L- 60+69	0714																	
	0714	0713												88				
	0715	0716																
-L- 62+55	0716																	
	0716	0717																
-L- 63+00	0717																	
	0717	0718																
-L- 63+50	0718																	
	0718	0719																
-L- 63+96	0719																	
	0719	0720																
-L- 64+37	0721																	
-L- 64+50	0722																	
	0722	0722A																
-L- 65+00	0722A																	
	0722A	0722B																
-L- 65+50	0722B																	
	0722B	0723																
-L- 66+00	0723																	
	0723	0723A																
-L- 66+45	0723A																	
	0723A	0723B																
-L- 66+95	0723B																	
	0723B	0802																
-L- 66+67	0802																	
SHEET TOTALS												12		88				

STATION	FROM	TO	R.C. PIPE CLASS IV 12″	15″	18″	24″	30″	36″	42″	48″	15″ SIDE DRAIN PIPE	18″ SIDE DRAIN PIPE	24″ SIDE DRAIN PIPE	ENDWALLS STD. 838.05 or STD. 838.15 (UNLESS NOTED OTHERWISE) CU. YDS.	R.C.P.
-L- 42+21	0614														
-L- 53+86	0701														
	0701	0706		92											
-L- 55+67	0702														
	0702	0703			88										
-L- 56+56	0703														
	0703	0704				44									
	0706	0702			88										
-L- 54+78	0705														
	0705	0706		8											
-L- 54+78	0706														
-L- 56+56	0708														
	0708	0703			8										
	0709	0710				28									
-L- 58+65	0710														
	0711	0710													
	0710	0710A				36									
-L- 59+00	0710A														
	0710A	0710B				48									
-L- 59+50	0710B														
	0710B	0712				24									
-L- 59+73	0712														
	0712	0714				100									
-L- 60+69	0714														
	0714	0713													
	0715	0716		32											
-L- 62+55	0716														
	0716	0717		48											
-L- 63+00	0717														
	0717	0718			100										
-L- 63+50	0718														
	0718	0719			12										
-L- 63+96	0719														
	0719	0720			44										
-L- 64+37	0721						44								2.5
-L- 64+50	0722														
	0722	0722A		48											
-L- 65+00	0722A														
	0722A	0722B		48											
-L- 65+50	0722B														
	0722B	0723			48										
-L- 66+00	0723														
	0723	0723A			44										
-L- 66+45	0723A														
	0723A	0723B			48										
-L- 66+95	0723B														
	0723B	0802			68										
-L- 66+67	0802														
SHEET TOTALS				276	548	280	44								2.5

STATION	FROM	TO	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0′ THRU 5.0′)	LIN. *FT. A 5.0′ THRU 10.0′	LIN. *FT. B 10.0′ AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G
-L- 42+21	0614		1	2.4					
-L- 53+86	0701		1						
	0701	0706							
-L- 55+67	0702		1						
	0702	0703							
-L- 56+56	0703		1						
	0703	0704							
	0706	0702							
-L- 54+78	0705		1	4.5					
	0705	0706							
-L- 54+78	0706		1						
-L- 56+56	0708		1	0.2					
	0708	0703							
	0709	0710							
-L- 58+65	0710		1						
	0711	0710							
	0710	0710A							
-L- 59+00	0710A		1			1			1
	0710A	0710B							
-L- 59+50	0710B		1			1			1
	0710B	0712							
-L- 59+73	0712		1			1			1
	0712	0714							
-L- 60+69	0714		1						
	0714	0713							
	0715	0716							
-L- 62+55	0716		1						
	0716	0717							
-L- 63+00	0717		1						
	0717	0718							
-L- 63+50	0718		1						
	0718	0719							
-L- 63+96	0719		1						
	0719	0720							
-L- 64+37	0721								
-L- 64+50	0722		1			1			1
	0722	0722A							
-L- 65+00	0722A		1			1			1
	0722A	0722B							
-L- 65+50	0722B		1			1			1
	0722B	0723							
-L- 66+00	0723		1			1			1
	0723	0723A							
-L- 66+45	0723A		1			1			1
	0723A	0723B							
-L- 66+95	0723B		1			1			1
	0723B	0802							
-L- 66+67	0802		1			1			1
SHEET TOTALS			23	7.1		10			10

* TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. ‘A’ + (1.3 X COL.‘B’)

STATION	FROM	TO	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME & GRATE STD. 840.16	G.D.I. TYPE ″A″ STD. 840.17 OR 840.26	G.D.I. TYPE ″B″ STD. 840.18 OR 840.27	G.D.I. TYPE ″D″ STD. 840.19 OR 840.28	G.D.I. (W.S. FLAT) FRAME W/2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME WITH TWO GRATES STD. 840.29	J.B. STD. 840.31 OR 840.32	M.H. STD. 840.51, 840.52, OR 840.53	CORR. STEEL FLARED END SECTION STD. 310	M.H. FRAME & GRATE STD. 840.54	BERM DITCH OUTLET STD. 850.11 (PER EACH)	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. ″B″ C.Y. STD 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
-L- 42+21	0614				1							1										
-L- 53+86	0701					1						1										
	0701	0706																				
-L- 55+67	0702					1						1										
	0702	0703																				
-L- 56+56	0703				1							1										
	0703	0704																				
	0706	0702																				
-L- 54+78	0705		1	1																		
	0705	0706																				
-L- 54+78	0706					1						1										
-L- 56+56	0708		1	1																	40	REMOVE EXISTING 15″ CMP
	0708	0703																				
	0709	0710																			20	REMOVE EXISTING 15″ CMP
-L- 58+65	0710													1		1						
	0711	0710																				
	0710	0710A																				
-L- 59+00	0710A																					
	0710A	0710B																				
-L- 59+50	0710B																					
	0710B	0712																				
-L- 59+73	0712																				32	REMOVE EXISTING 12″ CMP
	0712	0714																				
-L- 60+69	0714				1						1											
	0714	0713																			80	REMOVE EXISTING 18″ CMP
	0715	0716																			72	REMOVE EXISTING 10″ CMP
-L- 62+55	0716					1						1										
	0716	0717																				
-L- 63+00	0717					1						1										
	0717	0718																				
-L- 63+50	0718					1						1										
	0718	0719																				
-L- 63+96	0719					1						1										
	0719	0720																				
-L- 64+37	0721																				52	REM EXIST 30″ CMP & 21′ OF EXIST 15″ TERRA
-L- 64+50	0722																					
	0722	0722A																				
-L- 65+00	0722A																					
	0722A	0722B																				
-L- 65+50	0722B																					
	0722B	0723																				
-L- 66+00	0723																					
	0723	0723A																				
-L- 66+45	0723A																					
	0723A	0723B																				
-L- 66+95	0723B																					
	0723B	0802																			20	REMOVE EXISTING 12″ CMP
-L- 66+67	0802																					
SHEET TOTALS			2	2	3	7					1	9		1		1					316	

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

$$$$$SYSTIME$$$$$
$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$USERNAME$$$$$