COMPUTED BY: VWB DATE: 9/18/2014

CHECKED BY: LDR DATE: 9/19/2014

DD84744

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5119	3D-1

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

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

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) 12"	15"	18"	24"	30"	36"	42"	48"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
Sheet 4																			
13+35 -RP-	LT	404		752.6	749.9														
13+35 -RP-	LT	404	403		749.9	748.5													
14+06 -RP-	LT	403		751.7	748.5														
14+20 -RP-	LT	403	402		748.5	739.1	0.37		24							X			
14+20 -RP-	LT	402		743.4	739.1														
17+45 -Y1-	LT	411		727.4	715.6														
18+36 -L-	RT	410		748.2	745.0														
24+85 -L-	RT	409		750.2	747.4														
24+15 -L-	RT	409	408		747.4	746.2													
24+15 -L-	RT	408		749.0	746.2														
22+00 -L-	RT	408	407		746.2	742.3													
22+00 -L-	RT	407		745.0	742.3														
20+94 -L-	RT	407	406		742.3	741.5													
20+94 -L-	RT	406		746.1	741.5														
Sheet 5																			
30+43 -L-	RT	501		749.0	741.6														
32+83 -L-	RT	502		742.8	734.3														
31+89 -L-	LT	503		742.3	736.6														
32+92 -L-	LT	506			715.0														
38+00 -L-	LT	514		729.6	727.1														
38+00 -L-	LT	514	515		726.9	715.9	0.41		24							X			
3+70 -RP-	RT	516		733.7	730.9														
3+70 -RP-	RT	516	517		730.9	715.4	0.42		36										
9+75 -RP-	LT	520		750.8	748.1														
9+75 -RP-	LT	520	521		748.1	741.1	0.10		24							X			
5+80 -RP-	RT	522																	
SHEET TOTALS									108										
SAY																			

STATION	FROM	TO	C.S. 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"
13+35 -RP-	404																									
13+35 -RP-	404	403										80														
14+06 -RP-	403																									
14+20 -RP-	403	402																								
14+20 -RP-	402																									
17+45 -Y1-	411																									
18+36 -L-	410																									
24+85 -L-	409																									
24+15 -L-	409	408										68														
24+15 -L-	408																									
22+00 -L-	408	407										208														
22+00 -L-	407																									
20+94 -L-	407	406											100													
20+94 -L-	406																									
30+43 -L-	501																									
32+83 -L-	502																									
31+89 -L-	503																									
32+92 -L-	506																									
38+00 -L-	514																									
38+00 -L-	514	515																								
3+70 -RP-	516																									
3+70 -RP-	516	517																								
9+75 -RP-	520																									
9+75 -RP-	520	521																								
5+80 -RP-	522																									
SHEET TOTALS												356	100													
SAY																										

STATION	FROM	TO	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A 5.0' THRU 10.0'	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	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN
13+35 -RP-	404									1								
13+35 -RP-	404	403																
14+06 -RP-	403									1								
14+20 -RP-	403	402																
14+20 -RP-	402																	
17+45 -Y1-	411									1	5	1.8						
18+36 -L-	410																	
24+85 -L-	409									1								
24+15 -L-	409	408																
24+15 -L-	408									1								
22+00 -L-	408	407																
22+00 -L-	407									1								
20+94 -L-	407	406																
20+94 -L-	406									1								
30+43 -L-	501										1.8							
32+83 -L-	502																	
31+89 -L-	503										1.1							
32+92 -L-	506																	
38+00 -L-	514									1								
38+00 -L-	514	515																
3+70 -RP-	516									1								
3+70 -RP-	516	517																
9+75 -RP-	520									1								
9+75 -RP-	520	521																
5+80 -RP-	522																	
SHEET TOTALS										10	7.9	1.84						
SAY											10.3							

STATION	FROM	TO	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND 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. TYPE "D" STD. 840.19 OR 840.28	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. FRAME WITH TWO GRATES STD. 840.29	J.B. STD. 840.31 OR 840.32	TRAFFIC BEARING G.D.I. STD. 840.35	STEEL GRATE AND FRAME STD. 840.37	ADJUSTMENT OF D.I.	PIPE CLEAN OUT	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
13+35 -RP-	404					1					1										
13+35 -RP-	404	403																			
14+06 -RP-	403					1					1						2 @ 15"				
14+20 -RP-	403	402																			
14+20 -RP-	402																				RETAIN EXIST SLAB TOP DI
17+45 -Y1-	411										1		1								
18+36 -L-	410														1	1					
24+85 -L-	409					1					1										
24+15 -L-	409	408																			
24+15 -L-	408					1					1										
22+00 -L-	408	407																			
22+00 -L-	407					1			1												
20+94 -L-	407	406																		106	REMOVE 15" RCP AND D.I.
20+94 -L-	406					1			1							1				8	REMOVE 24" RCP AND D.I.
30+43 -L-	501														1						EXISTING TOP EL=745.17
32+83 -L-	502														1						
31+89 -L-	503														1						EXISTING TOP EL=739.23
32+92 -L-	506															1					
38+00 -L-	514					1					1										
38+00 -L-	514	515															2 @ 15"			25	REMOVE 12" CMP AND FLUME
3+70 -RP-	516					1					1										
3+70 -RP-	516	517															2 @ 15"			40	REMOVE 12" CMP AND FLUME
9+75 -RP-	520					1					1										
9+75 -RP-	520	521															2 @ 15"				
5+80 -RP-	522																			38	REMOVE 12" CMP AND FLUME
SHEET TOTALS						9			2		8		1		4	3	8 @ 15"			217	
SAY																					

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.)	(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