8/17/99

REVISIONS

COMPUTED BY: JMK DATE: 9/29/2015

CHECKED BY: BTB DATE: 9/29/2015

PROJECT REFERENCE NO.	SHEET NO.
B-4655	3D-1

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.

SUBREGIONAL

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) SIZE 12"	15"	18"	24"	30"	36"	42"	48"	DRAINAGE PIPE THICKNESS OR GAUGE DO NOT USE RCP	DO NOT USE CSP	DO NOT USE PVC	DO NOT USE HDPE
19+08 -L-	RT	0401		247.48	244.73														
19+08 -L-	RT	0401	0402		244.73	244.50			16									X	X
19+30 -L-	LT	0403		247.14	244.39														
19+30 -L-	LT	0403	0404		244.39	241.84			16							X		X	X
10+73 -Y-	CL	0405			248.50	243.30													
12+79 -Y-	RT	0406																	
15+04 -L-	LT	0407																	
15+94 -L-	LT	0408																	
22+03 -L-	LT	0409																	
SHEET TOTALS									32										

STATION	C.S. PIPE SIZE 12"	15"	18"	24"	30"	36"	42"	48"	C.S. PIPE THICKNESS OR GAUGE .064	.064	.064	.064	.079	.079	.109	.109
19+08 -L-																
19+08 -L-																
19+30 -L-																
19+30 -L-																
10+73 -Y-																
12+79 -Y-																
15+04 -L-																
15+94 -L-																
22+03 -L-																
SHEET TOTALS																

STATION	R.C. PIPE CLASS III SIZE 12"	15"	18"	24"	30"	36"	42"	48"
19+08 -L-								
19+08 -L-								
19+30 -L-								
19+30 -L-								
10+73 -Y-				72				
12+79 -Y-								
15+04 -L-								
15+94 -L-								
22+03 -L-								
SHEET TOTALS				72				

STATION	R.C. PIPE CLASS IV SIZE 12"	15"	18"	24"	30"	36"	42"	48"
19+08 -L-								
19+08 -L-								
19+30 -L-								
19+30 -L-								
10+73 -Y-								
12+79 -Y-								
15+04 -L-								
15+94 -L-								
22+03 -L-								
SHEET TOTALS								

STATION	** "R.C. PIPE (CLASS V)	*** RC PIPE CULVERTS, CONTRACTOR DESIGN	**** RC PIPE CULVERTS, CONTRACTOR DESIGN	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.
19+08 -L-							
19+08 -L-							
19+30 -L-							
19+30 -L-							
10+73 -Y-							
12+79 -Y-					44		
15+04 -L-				36			
15+94 -L-				32			
22+03 -L-					32		
SHEET TOTALS				68	76		

STATION	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES 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. FRAME WITH GRATE STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.31 OR 840.32	G.D.I. FRAME (N.S. FLAT) W/2 GRATES STD. 840.29	T.B.D.I. STD. 840.35
19+08 -L-	1																		1	1
19+08 -L-																				
19+30 -L-	1																		1	1
19+30 -L-																				
10+73 -Y-																				
12+79 -Y-																				
15+04 -L-																				
15+94 -L-																				
22+03 -L-																				
SHEET TOTALS	2																		2	2

STATION	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
19+08 -L-					
19+08 -L-					
19+30 -L-					
19+30 -L-	2 @ 15"				
10+73 -Y-				37	
12+79 -Y-				22	
15+04 -L-				21	
15+94 -L-				34	
22+03 -L-				21	
SHEET TOTALS	2 @ 15"			135	

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

1/3/2017
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USER:kaua