COMPUTED BY: SMB DATE: 10/20/2014

CHECKED BY: TJC DATE: 10/20/2014

RD248621

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5124	3D-1

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)

STATION / SIZE / THICKNESS OR GAUGE	LOCATION (LT, RT, OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	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
L 23+50	LT	0501		93.0	89.8														
		0501	0502		89.8	87.0			20							X			
L 23+50	RT	0503		93.0	89.8														
		0503	0504		89.8	89.0			20										
L 37+95	LT	0601		93.0	90.2														
		0601	0602		90.2	90.1													
L 37+95	RT	0602		93.0	90.1														
		0602	0603		90.1	90.0			16										
L 53+54	RT	0701		94.4	91.2														
		0701	0702		91.2	91.1			20										
L 53+74	RT	0702		94.5	91.1														
		0702	0703		91.1	91.0			16							X			
L 57+07	RT	0704																	
L 59+00	RT	0705							16										
L 63+55	LT	0801	0802		94.3	93.7				36									
L 63+79	LT	0802		101.3	93.7														
SHEET TOTALS									108	36									

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"
L 23+50	0501																									
	0501	0502																								
L 23+50	0503																									
	0503	0504																								
L 37+95	0601																									
	0601	0602																		40						
L 37+95	0602																									
	0602	0603																								
L 53+54	0701																									
	0701	0702																								
L 53+74	0702																									
	0702	0703																								
L 57+07	0704																									
L 59+00	0705																									
L 63+55	0801	0802																								
L 63+79	0802																									
SHEET TOTALS																				40						

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. 838.01 838.11 OR STD. 838.80 (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
L 23+50	0501									1								
	0501	0502																
L 23+50	0503									1								
	0503	0504																
L 37+95	0601									1								
	0601	0602																
L 37+95	0602									1								
	0602	0603																
L 53+54	0701									1								
	0701	0702																
L 53+74	0702									1								
	0702	0703																
L 57+07	0704																	
L 59+00	0705																	
L 63+55	0801	0802																
L 63+79	0802									1	2.6							
SHEET TOTALS										7	2.6							

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. 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. (N.S.) FRAME WITH TWO GRATES STD. 840.29	T.B.J.B. STD. 840.34	MANHOLE FRAME AND COVER STD. 840.54	PIPE CLEANOUT, EA	SIDE DRAIN 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
L 23+50	0501					1							1								
	0501	0502																			
L 23+50	0503					1							1								
	0503	0504																			
L 37+95	0601					1							1								
	0601	0602																			
L 37+95	0602					1							1								
	0602	0603																			
L 53+54	0701					1							1								
	0701	0702																			
L 53+74	0702					1							1								
	0702	0703																			
L 57+07	0704															1					
L 59+00	0705																				REMOVE 15" RCP
L 63+55	0801	0802																			OPEN END PIPE
L 63+79	0802													1	1					5	REMOVE HW & A SMALL SECTION OF 18" RCP
SHEET TOTALS						6							6	1	1	1				5	

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