COMPUTED BY:	ITY	DATE:	10/6/2014
CHECKED BY:	KDA	DATE:	1/7/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5136	3D-2

RD26404

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	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"	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE
THICKNESS OR GAUGE																			
29+03.50	LT	505		699.81															
		504	505		695	694.5													
30+30.00	LT	506		698.99															
		506	505		695.25	694.5													
29+03.17	CL	507																	
		505	507		694.5	694.47													
27+02.70	LT	510			695.8														
27+02.70	LT	510		699.23															
		511	510		697	695.8													
24+50.00	LT	511		704.75															
27+40.45	CL	512		700.67															
		510	512		695.8	695.49													
20+47.61	LT	513		702.76	692.76														
-L- 15+98	RT																		
SHEET TOTALS																			
PROJECT TOTALS									144										
SAY																			

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
29+03.50																
30+30.00																
29+03.17																
27+02.70																
27+02.70																
24+50.00																
27+40.45																
20+47.61																
-L- 15+98																
SHEET TOTALS																
PROJECT TOTALS																
SAY																

STATION	R.C. PIPE CLASS III SIZE 12"	15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV SIZE 12"	15"	18"	24"	30"	36"	42"	48"
29+03.50																
										100'						
30+30.00																
										124'						
29+03.17																
										4'						
27+02.70																
27+02.70																
										244'						
24+50.00																
27+40.45																
		60'														
20+47.61																
-L- 15+98																
SHEET TOTALS		60'								472'						
PROJECT TOTALS		324'								2060'	4'					
SAY																

STATION	** " R.C. PIPE (CLASS V)	*** " RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	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.	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 (EACH) DROP INLET	CATCH BASIN
29+03.50								1	0.31						1	
30+30.00								1							1	
29+03.17																
27+02.70								1								
27+02.70													1			
24+50.00								1	2.75		1			1		
27+40.45								1								
20+47.61								1	5		1		1			
-L- 15+98																
SHEET TOTALS								6	8.06		2		1	2	2	
PROJECT TOTALS								22	15		11		10	5	3	3
SAY									15							

STATION	DI. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATE STD. 840.16	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29	G.D.I. TYPE "B" STD. 840.18 OR 840.27	T. B. G. D. I. STD. 840.35 OR 840.36	J.B. STD. 840.31 OR 840.32	M.H. FRAME AND COVER STD. 840.54	CONVERT DI TO C.B. (SEE DETAIL SHEET 2C-1)	T.B.J.B. STD. 840.34	TEMPORARY STEEL PLATE (SEE DETAIL SHEET 2C-2)		FLOWABLE FILL (CUBIC YARDS)			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
29+03.50	1	1								1									Remove Existing CB
30+30.00	1	1								1									Remove Existing CB
29+03.17																	0.399		Collar and extend Exist 15" RCP
27+02.70			1		1														Temp. Detour phase
27+02.70								1											FINAL PHASE
24+50.00										1									
27+40.45						1				1									Remove Exist D.I./Steel Plate at multiple phases
20+47.61										1									
-L- 15+98										1									Phase 2 - IN CONC. ISLAND
SHEET TOTALS	2	2	1		1	1		1		6							0.399		
PROJECT TOTALS	2	2	4	3	1	4	1	4	1	11		34.7					0.315	1'	483'
SAY																	1	2'	483'

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