COMPUTED BY:	WC PARKER, PE	DATE:	7/16/2015
CHECKED BY:	DP BOCKER, PE	DATE:	7/17/2015

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
W-5518	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 / 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-, 12+30	LT	0400									48								
-L-, 13+41	CL	0401			101.5	101.2													
-L-, 22+66	LT	0501		130.8															
		0501	0500		127.5	103.8			88							X			X
-L-, 22+66	RT	0502		130.8															
		0502	0501		127.6	127.5													
-L-, 25+47	RT	0504		131.6															
		0504	0503		128.3	104.2			92							X			X
-L-, 25+47	LT	0505		131.6															
		0505	0504		128.5	128.3													
-L- 33+65	CL	0600			101.8	101.4													
-L-, 21+05	RT																		
-L-, 26+15	RT																		
-L-, 33+80	LT																		
-L-, 33+65	LT																		
SHEET TOTALS								0	180	0	48	0	0	0	0	0	0	0	0

STATION	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-, 12+30																								
-L-, 13+41																				72				
-L-, 22+66																								
-L-, 22+66																								
																		32						
-L-, 25+47																								
-L-, 25+47																								
																		32						
-L- 33+65																				84				
SHEET TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	64	0	156	0	0	0	0

STATION	** " 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-, 22+66 (LT, 0501)								1								
-L-, 22+66 (RT, 0502)								1								
-L-, 25+47 (RT, 0504)								1								
-L-, 25+47 (LT, 0505)								1								
SHEET TOTALS	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0

STATION	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	T.B.D.I. STD. 840.35	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					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-, 12+30																		48	REMOVE 24" CMP
-L-, 22+66 (LT, 0501)						1			1										
(0501–0500)															2@15"				
-L-, 22+66 (RT, 0502)						1			1										
-L-, 25+47 (RT, 0504)						1			1										
(0504–0503)															2@15"				
-L-, 25+47 (LT, 0505)						1			1										
-L-, 21+05																		20	REMOVE 18" RCP
-L-, 26+15																		33	REMOVE 15" RCP
-L-, 33+80																		14	REMOVE 15" RCP
-L-, 33+65																			PIPE CLEAN-OUT - 38 LIN. FT.
SHEET TOTALS	0	0	0	0	0	4	0	0	4	0	0	0	0	0	4@15"	0	0	115	

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