COMPUTED BY: SP DATE: 07 /2014
CHECKED BY: BU DATE: 07 /2014

PROJECT REFERENCE NO.	SHEET NO.
SS-4905BI	3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

See "Standard Specifications For Roads and Structures, Section 300–5".

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & 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	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	C.S. PIPE 12"	15"	18"	24"	36"	42"	48"
																				.064	.064	.064	.064	.079	.109	.109
SHEET 4																										
12+97	LT	401			378.00	377.76																				
12+97	RT	404			378.78	378.54																				
14+64	RT	405			376.90	376.50																				
15+20	LT	403			375.22	374.52																				
15+24	LT	402			EXIST.	375.71																				
15+39	RT	406			376.32	EXIST.																				
SHEET 5																										
16+08	RT	505	504		377.04	376.83																				
16+32	RT	505		380.00	377.04																					
16+50	RT	506	507		379.32	377.40																				
16+43	RT	507	505		377.30	377.04																				
16+53	RT	507		381.10	377.30																					
16+68	RT	508	507		378.55	377.40																				
16+84	RT	508		381.72	378.50																					
16+87	RT	510	508		378.55	378.50																				
16+91	RT	510		380.80	378.55																					
16+83	LT	501			377.20	377.05																				
17+08	LT	502			377.81	377.43																				
17+22	LT	503		381.04	377.43																					
17+25	LT	503A			378.50	378.10																				
18+62	RT	511			385.50	385.10																				
TOTAL																										

STATION / SIZE / THICKNESS OR GAUGE	R.C. PIPE (CLASS III) 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE (CLASS IV) 12"	15"	18"	24"	30"	36"	42"	48"	*** R. C. PIPE (CLASS V)	*** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	*** R. C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. 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 CATCH BASIN	DROP INLET	G.D.I. FRAME WITH GRATE STD. 840.16	G.D.I. FRAME WITH GRATE STD. 840.22	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	T.B.J.B. STD. 840.34	M. H. FRAME & COVER ST. 840.54	CONC. COLLARS CL. "B" C.Y. STD 840.72	PIPE ELBOWS (15", C.A.A.)	PIPE REMOVAL LIN.FT.	REMARKS
SHEET 4																																											
12+97	12																																									8	REMOVE 12" RCP
12+97	12																																									8	REMOVE 12" RCP
14+64	48																																									37	REMOVE 15" RCP
15+20		18																																									
15+24	7																																								.40		COLLAR & EXTEND 15" RCP – CL IV
15+39	8																																								.40		COLLAR & EXTEND 15" RCP – CL IV
SHEET 5																																											
16+08	50																																									41	REMOVE 15" RCP
16+32																							1										1										D.I. STD. 840.14 OR STD. 840.15
16+50								16																																.40		COLLAR & EXTEND 15" RCP – CL IV
16+43								21																																		
16+53																							1													1	1						TBJB w /MANHOLE
16+68								33																																		PLUG EXIST. 12" RCP
16+84																							1			1			1														C.B. STD. 840.01 OR 840.02
16+87	8																																										
16+91																							1										1										D.I. STD. 840.14 OR STD. 840.15
16+83		15																																								15	REMOVE 15" RCP
17+08								29																																			PLUG EXIST. 15" RCP NEAR INTERSECTION
17+22																							1			1			1														C.B. STD. 840.01 OR 840.02
17+25	6																																										
18+62	24																																									22	REMOVE 15" RCP
TOTAL	175	15	18					99															5			2		1	1							2		1	1	1.2		131	

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.)	GRATED DROP INLET (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

SUMMARY OF EARTHWORK

LOCATION	UNCL. EXCAV.	UNDERCUT	EMBANK. +20%	BORROW	WASTE
(–L–) 10+80 TO 20+57	397		60		337
SUBTOTALS:	397		60		337
CONTAMINATED SOIL:	150				
PROJECT TOTALS:	247		60		187
GRAND TOTALS:	247		60		187

Approximate quantities only. Unclassified excavation, removal of existing pavement, and clearing & gurbbing will be paid for at the lump sump price for "Grading".

4/04/06

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