DocuSign Envelope ID: 196E2B88-D119-4927-B877-8A91A1929379

DBOCKER-7

COMPUTED BY:	TLR/JPS	DATE:	11/2/2016
CHECKED BY:	DPB	DATE:	3/22/2017

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3330	3D-9

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 54 INCHES & OVER)

LINE & STATION / SIZE / THICKNESS OR GAUGE	OFFSET		STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %
L 113+70	72	RT	1013		93.2			
			1013	1014		8.1.1	81.0	
L 113+73	95	RT	1025	1013		81.5	81.1	
L 115+71	86	RT	1051		89.9			
			1051	1050		81.1	80.7	
L 115+58	75	RT	1052		94.2			
			1052	1051		83.9	81.1	

Structure (From–To)	Side Drain Pipe (RCP, CSP, CAAP, or HDPE) 54	60	66	72	78	84		DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	R. C. PIPE CLASS III 54	60	66	72	78	84		R. C. PIPE CLASS IV 54	60	66	72	78	84		R. C. PIPE CLASS V 54	60	66	72	78	84	
1013																																	
1013–1014																						24											
1025–1013																																	
1051																																	
1051–1050																							120										
1052																																	
1052–1051																							188										
SHEET TOTALS																						24	308										
PROJECT TOTALS																						24	308										

Structure (From–To)	##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	##" R.C. PIPE CULVERTS, CONTRACTOR DESIGN		##" x ##" C.S. PIPE ARCH CULVERTS, ##" THICK	##" x ##" C.S. STRUCTURAL PLATE PIPE ARCH, ## GAUGE	66" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	66" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	##" WELDED STEEL PIPE ##" THICK, GRADE B (UNDER RR)	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH	A: 5' THRU 10' LIN. FT.	B: 10' AND ABOVE LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G		CONCRETE TRANSITIONAL SECTION: D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	M.H. FRAME AND COVER STD. 840.54	JB. STD. 840.31 OR STD. 840.32	##" SLUICE GATE (##" SIZE SLUICE GATE)		MODIFIED CONC. FLUME	PREFORMED SCOUR HOLE (PER EACH)	ENERGY DISSIPATION BASIN		FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
1013												11.261														1	1												
1013–1014																																							
1025–1013							100	100																															
1051												7.868												1	1														
1051–1050																																							
1052												7.868												1	1														
1052–1051																																							
SHEET TOTALS							100	100				26.997												2	2	1	1												
PROJECT TOTALS							100	100				26.997												2	2	1	1												

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
N.S.	NARROW SLOT
P.V.C.	POLYVINYL CHLORIDE
R.C.	REINFORCED CONCRETE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX
W.S.	WIDE SLOT