WKST1

COMPUTED BY:	RBR	DATE:	6/15/2018
CHECKED BY:	ECOLOGICAL ENGINEERING, LLP	DATE:	6/15/2018

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-4405	3D-42

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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 54	60	66	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	STRUCTURAL PLATE PIPE 60	66	72
L 34+69	55 RT	0540		219.6																																	
		0540	0643		209.5	209.2		84																													
L 35+55	55 RT	0643		219.8																																	
		0643	0644		209.2	209.1		60																													
L 36+16	55 RT	0644		219.8																																	
		0644	0645		209.1	208.7		108																													
L 37+25	55 RT	0645		220.1																																	
		0645	0607		208.7	208.7		16																													
L 37+25	41 RT	0607		220.2																																	
		0607	0646		208.7	208.4																88															
L 38+16	42 RT	0646		220.3																																	
		0646	0614		208.4	207.3																384															
L 42+00	50 RT	0614		219.5																																	
		0614	0618		207.3	206.7																204															
L 44+03	50 RT	0618		216.8																																	
		0618	0623		206.7	206.5																40															
L 44+45	50 RT	0623		216.0																																	
		0623	0630		206.5	206.0																180															
L 46+25	50 RT	0630		213.7																																	
		0630	0635		206.0	205.9																44															
L 46+71	49 LT	0633		213.6																																	
		0633	0634		206.3	206.2																								48							
		0634	0635		206.0	205.9																								52							
		0635	0637		205.9	205.8				16																											
L 46+71	50 RT	0635		213.6																																	
L 46+60	83 LT	0636		212.0																																	
		0636	0633		206.5	206.4				36																											
L 46+69	66 RT	0637		211.3																																	
L 82+32	74 LT	0923		191.6																																	
		0923	0944		175.9	175.4	0.5																														
L 143+39	116 LT	1450	1451		140.0	140.0														52																	
L 143+31	93 LT	1451																																			
L 143+51	110 LT	1452	1453		140.0	140.0														52																	
L 143+43	85 LT	1453																																			
L 143+69	82 LT	1454																																			
L 143+69	105 LT	1455	1454		137.5	137.2														48																	
L 143+66	0 CL	1454	1460																																		
L 143+31	37 RT	1456																																			
L 143+35	58 RT	1456	1457		138.9	138.7														44																	
L 143+43	37 RT	1458																																			
L 143+47	58 RT	1458	1459		139.0	138.7														44																	
L 143+64	38 RT	1460																																			
L 143+63	58 RT	1460	1461		136.5	136.2														44																	
L 137+37	0 CL	0000																																			
L 137+37	0 CL	0000																																			
		1615	1611		194.0	193.8			52																												
L 173+28	44 LT	1615		203.0																																	
L 174+50	44 LT	1623		203.7																																	
		1623	1615		194.3	194.0																	120														
L 176+75	44 LT	1626		205.5																																	
				SHEET TOTALS				268	52	52										284			940	120							100							

LINE & STATION	### R.C. PIPE CULVERTS, CONTRACTOR DESIGN	### R.C. PIPE CULVERTS, CONTRACTOR DESIGN	### R.C. PIPE CULVERTS, CONTRACTOR DESIGN	72" WELDED STEEL PIPE 1" THICK, GRADE B IN SOIL	72" WELDED STEEL PIPE 1" THICK, GRADE B NOT IN SOIL	60" WELDED STEEL PIPE 0.875" THICK, GRADE B IN SOIL	60" WELDED STEEL PIPE 0.875" THICK, GRADE B NOT IN SOIL	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	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	J.B. STD. 840.31 OR STD. 840.32	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 34+69									6.236														1		1			
L 35+55									6.540														1		1			
L 36+16									6.601														1		1			
L 37+25									7.028														1		1			
L 37+25									3.960				1		1													
L 38+16									4.404				1		1													
L 42+00									4.217																			See Special Detail 2C-6
L 44+03									3.464				1		1													
L 44+45									3.271				1		1													
L 46+25									2.740				1		1													
L 46+71									2.381																			See Special Detail 2C-6
L 46+71									2.057																			See Special Detail 2C-6
L 46+60								6.300																				STD. 838.33
L 46+69								6.300																				See Structure Plans
L 82+32																												See Special Detail 2C-27
				84	84																							
L 143+39																												
L 143+31																												See Special Detail 2C-25
L 143+51																												
L 143+43																												See Special Detail 2C-25
L 143+69																												
L 143+69																												
L 143+66				62	62																							
L 143+31																												See Special Detail 2C-25
L 143+35																												
L 143+43																												See Special Detail 2C-25
L 143+47																												
L 143+64																										3.4176		
L 143+63																												
L 137+37						70	70																					
L 137+37						70	70																					
L 173+28									2.896																			See Special Detail 2C-6
L 174+50									3.286																			See Special Detail 2C-6
L 176+75									3.592																			See Special Detail 2C-6
SHEET TOTALS				146	146	140	140	12.600	62.673				5		3	2					4		4	3.4176		

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