JSTANOVICH

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
I-5878	3D-19

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 %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 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 IV 12	15	18	24	30	36	42	48	54	60	66	72	78	84	DUCTILE IRON PIPE TYPE 3 SEALED PIPE SYSTEM SEE SPECIAL PROVISIONS		60	CLASS 150		
Y14RPB 21+86	89 LT	1713		181.0																																		
		1713	1714		181.0	180.1																																
L 973+63	74 LT	1714		187.1																																		
		1714	1715		179.5	179.1																																
L 973+63	2 LT	1715		187.8																																		
		1715	1716		179.1	179.0																						8										
L 973+62	2 RT	1716		187.8																																		
		1716	1717		179.0	178.6																																
Y14RPB 21+91	95 LT	1736		181.0																																		
		1736	1738		181.0	179.9																																
L 973+71	74 LT	1738		186.8																																		
		1738	1739		179.5	179.1																																
L 973+71	2 LT	1739		187.8																																		
		1739	1740		179.1	178.6																																
Y15 30+07	7 LT	1942		196.2																																		
		1942	1970		186.0	185.9																			52													
Y15 27+10	5 RT	1947		197.1																																		
		1947	1971		186.9	186.7																			52													
Y15 30+58	7 LT	1970		196.1																																		
		1970	19102		185.9	185.7																			60													
Y15 27+64	3 RT	1971		196.8																																		
		1971	1973		186.7	186.2																			192													
Y15 29+57	7 LT	1973		196.4																																		
		1973	1942		186.2	186.0																			48													
Y15RPD 27+86	47 RT	1994		185.0																																		
		1994	19107		185.0	183.8																												152				
L 1038+00	2 RT	2101		176.5																																		
		2101	2104		167.3	166.5																				304												
L 1038+00	2 LT	2102		176.5																																		
		2102	2101		167.4	167.3																				8												
L 1041+00	2 RT	2104		178.8																																		
		2104	2116		166.5	166.1																																
L 1038+00	93 LT	2105		167.7																																		
		2105	2102		167.7	167.4																																
SR9A 20+24	0 CL	5501	5502		189.0	188.7																			72													
Y15 39+95	88 LT	5732		182.1																																		
Y15 42+18	94 LT	5733		187.4	181.6																																	
Y15 35+69	70 LT	5737		193.9																																		
		5737	5740		183.3	182.4																												232				
DR13 10+90	31 LT	5740		189.8																																		
		5740	5741		182.4	182.2																												48				
DR13 11+00	16 RT	5741		194.5																																		
		5741	5730		182.2	182.1			20						X	X	X	X																				
		19102	1948		185.7	185.5		52								X	X	X																				
Y15 30+60	64 LT	19102		193.9																																		
Y15 34+09	76 LT	19107		192.8																																		
		19107	5737		183.8	183.3																												164				
SHEET TOTALS								52	20																476	312	8							596				
PROJECT TOTALS								52	20																476	312	8							596				

LINE & STATION	60" WELDED STEEL PIPE 0.844" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	66" WELDED STEEL PIPE 0.938" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	MASONRY - SEALED DRAINAGE SYSTEM CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	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	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMPORARY 1" STEEL COVER	##" SPRING BOX PIPE	SPRING BOX STD. 840.41	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	##" 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
Y14RPB 21+86				7.900																																		
	332																																					
L 973+63					6.263										1	1																						Special Detail Std. 840d17
		72																																				
L 973+63					5.932										1							1																
L 973+62					6.163										1							1																
		124																																				
Y14RPB 21+91																																						
	360																																					
L 973+71					6.042										1	1																						Special Detail Std. 840d17
		72																																				
L 973+71					6.128										1							1																
		124																																				
Y15 30+07					5.443					1				1	1																							
Y15 27+10					5.313					1				1	1																							
Y15 30+58					5.443					1				1	1																							
Y15 27+64					5.398					1				1	1																							
Y15 29+57					5.443					1				1	1																							
Y15RPD 27+86				5.600																																		
L 1038+00					5.971										1							1	1															
L 1038+00					6.050										1							1	1															
L 1041+00					7.631										1							1	1															
	112																																					
L 1038+00				5.600																																		
	92																																					
SR9A 20+24				5.000																																		
Y15 39+95				5.600																																		
Y15 42+18					2.730							1																										Special Detail Std. 840D04; OTCB with 4 openings
Y15 35+69			6.919												1		1																					Sealed System
DR13 10+90			3.389									1																										Sealed System; Special Detail Std. 840D04; OTCB with 4 openings
DR13 11+00					3.206	1			1																													Special Detail Std. 840D02
Y15 30+60					4.569													1										1										
Y15 34+09			5.997												1		1																					Sealed System
SHEET TOTALS	896	392	16.305	29.700	87.725	1			1	5		2		5	5	10	2	2	1				6	3				1										
PROJECT TOTALS	896	392	16.305	29.700	87.725	1			1	5		2		5	5	10	2	2	1				6	3				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