JSTANOVICH

COMPUTED BY:	Jake Stanovich	DATE:	03/10/2022
CHECKED BY:	Will Hines, PE	DATE:	03/10/2022

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

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 48 INCHES & UNDER)

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) 15	18	24	30	36	42	48	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 18	24	30	36	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 12	15	18	24	36	42
		1747	1748		197.5	191.2		48							X		X	X	X																	
Y14 31+72	16 LT	1747		200.9																																
Y14 18+83	43 RT	1749		192.5																																
		1749	1756		190.3	190.1		44								X	X		X																	
Y14 22+19	33 LT	1750		204.4																																
		1750	1761		201.1	200.3	0.5																	48												
DR1 14+00	13 RT	1751		193.4																																
		1751	1785		190.2	190.1																		24												
		1752	1753		190.1	190.0																		36												
Y14 16+26	26 RT	1752		193.3																																
Y14 16+62	26 RT	1753		193.4																																
		1753	1755		190.0	189.8																		52												
		1754	1755		190.1	189.8																		36												
Y14 16+26	26 LT	1754		193.3																																
Y14 16+62	26 LT	1755		193.4																																
		1755	1757		189.8	189.3																														
Y14 18+50	16 RT	1756		195.9																																
		1756	1757		190.1	189.3																														
Y14 18+50	18 LT	1757		195.8																																
		1757	1758		189.0	188.5																														
		1758	1759		188.5	187.7																														
Y14 20+09	16 LT	1758		199.7																																
Y14 21+73	16 RT	1760		203.6																																
		1760	1761		200.4	200.3																		32												
		1761	1762		200.3	185.3	2.4	76							X		X	X	X																	
Y14 21+73	18 LT	1761		203.6																																
		1763	1764		189.3	188.6		36								X	X		X																	
Y14RPC 17+22	87 RT	1763		192.5																																
		1765	1766		201.5	200.4		52								X	X	X	X																	
Y14RPB 22+05	6 RT	1765		204.8																																
Y14RAA 10+16	19 RT	1767		208.1																																
		1767	1768		204.8	204.1																		28												
Y14RPB 22+85	16 LT	1768		207.3																																
		1768	1769		204.1	201.5																		108												
Y14 22+36	35 RT	1769		204.7																																
		1769	1770		201.5	201.4																		36												
Y14RAA 12+97	20 RT	1770		206.1																																
		1770	1750		201.4	201.1																		36												
Y14 24+74	16 RT	1771		210.8																																
		1771	1772		207.6	206.8																		44												
Y14 24+45	19 LT	1772		210.1																																
		1772	1773		206.8	205.4																		44												
Y14 24+02	37 LT	1773		208.7																																
		1773	1774		205.4	205.1																		56												
Y14RAA 11+69	19 RT	1774		208.4																																
		1774	1775		205.1	204.1																		56												
Y14RAA 12+16	19 RT	1775		207.3																																
		1775	1750		204.1	201.1																		92												
		1776	1777		201.6	184.9		80							X		X	X	X																	
SBCD 11+95	14 LT	1776		204.9																																
					SHEET TOTALS			336																728												

LINE & STATION	QUANTITIES FOR SEALED DRAINAGE STRUCTURES NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B) 0' THRU 5'	A 5' THRU 10'	B 10' AND ABOVE	16" DUCTILE IRON PIPE (CLASS 250) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	18" DUCTILE IRON PIPE (CLASS 250) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	36" DUCTILE IRON PIPE (CLASS 150) TYPE 3 SEALED PIPE SYSTEM - SEE SPECIAL PROVISION	16" WELDED STEEL PIPE 0.281" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	18" WELDED STEEL PIPE 0.312" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	24" WELDED STEEL PIPE 0.375" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	30" WELDED STEEL PIPE 0.469" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	36" WELDED STEEL PIPE 0.532" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) 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	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. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	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	M.H. FRAME AND COVER STD. 840.54	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	BERM DITCH OUTLET STD. 850.11 (PER EACH)	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
																																						2											
Y14 31+72																1			1																														
Y14 18+83																1										1	1																						
Y14 22+19																1			1		1																												
DR1 14+00																1			1		1																												
Y14 16+26																1			1	1																														
Y14 16+62																1			1			1																												
Y14 16+26																1			1	1																														
Y14 16+62																1			1			1																												
Y14 18+50																1	0.8		1			1																												
Y14 18+50																			1		1																												Sealed System
Y14 20+09																1	5.0	1.1																														Sealed System
Y14 21+73																1			1			1																												
																																						2												
Y14 21+73																1			1			1																												
Y14RPC 17+22																1			1	1																														
Y14RPB 22+05																1			1			1																												
Y14RAA 10+16																1			1			1																												
Y14RPB 22+85																1			1			1																												
Y14 22+36																1			1			1																												
Y14RAA 12+97																1							1			1	1																							
Y14 24+74																1			1			1																												
Y14 24+45																1			1			1																												
Y14 24+02																1			1			1																												
Y14RAA 11+69																1			1			1																												
Y14RAA 12+16																1			1			1																												
																																						2												
SBCD 11+95																1			1			1																												
SHEET TOTALS	2	7	1		220	216										23	0.8		23	3	11	9	1			2	2																						

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