COMPUTED BY: D. Altieri DATE: 6/25/24

CHECKED BY: H. Harkenrider, PE DATE: 9/4/2024

DL-C0XGRV3

PROJECT NO.	SHEET NO.
BR-0174	3D-1

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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 %	(RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	24	30	36	42	48	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	C. S. PIPE (SE: SHOP ELONGATED) 12 .064	15 .064	18 .064	24 .064		30 .079			36 .079			42 .109	48 .109	54	60	66	72	78	84					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	G.D.I. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30		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	TEMP STEEL PLATE COVER MASONRY DRAINAGE		15" ELBOW	18" ELBOW	24" ELBOW	30" ELBOW	36" ELBOW		MODIFIED CONC. FLUME	PREFORMED SCOUR HOLE (PER EACH)	ENERGY DISSIPATION BASIN		FLOWABLE FILL CY	PIPE REMOVAL LIN. FT.	REMARKS
-L- 18+83	16 RT	0401		24.8																																																		1											1				1																	
		0401	0401A		22.0	13.2			28														X																																																					2											1 TON CLASS 'B' RIP RAP, 5 SY GEOTEXTILE
-L- 17+15	16 RT	0402																																																			1											1				1																	
		0402	0420A		21.2	14.2			24														X																																																				2											1 TON CLASS 'B' RIP RAP, 5 SY GEOTEXTILE
-L- 20+95	16 RT	0403		25.9																																																		1											1				1																	
		0403	0403A		23.0	14.3			28														X																																																				2											1 TON CLASS 'B' RIP RAP, 5 SY GEOTEXTILE
SHEET TOTALS									80																																													3											3				3					6												
PROJECT TOTALS									80																																													3											3				3					6												

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