USRAL3LT17006

COMPUTED BY: NKS DATE: 01/21/2022

CHECKED BY: MDB DATE: 06/24/2022

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-4442	3D-1

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 %	C. S. PIPE 15 .064	C. S. PIPE 18 .064	C. S. PIPE 24 .064	C. S. PIPE 30 .079			R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30	R. C. PIPE CLASS IV 36	R. C. PIPE CLASS IV 42	R. C. PIPE CLASS IV 48			36" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL		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	3-SIDE OTCB - SEE DETAIL SHEET 2C-6	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. 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 WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	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	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	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	TEMP STEEL PLATE COVER MASONRY DRAINAGE. DET		M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54		CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.		15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW		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
L 298+00	84 LT	0401		2086.1																																																																																		Open End
		0401	0402		2084.1	2083.3										84																																																																						
L 298+00	0 CL	0402		2090.1																									1	1.8														1					1																																							
		0402	0403		2083.3	2082.7										56																																																																						
L 298+00	55 RT	0403		2090.4																									1	2.5														1			1																																									
		0403	0404		2082.7	2071.1	0.7			40																																																																					2										
L 300+98	60 RT	0405		2077.3																									1															1			1																																									
		0405	0406		2072.8	2060.5		44																																																																			2												
L 302+32	113 LT	0407		2072.3																									1	0.2									1																																																		3-Side OTCB, See Detail on sheet 2C-6
		0407	0408		2067.1	2062.8	0.7							40																																																																								
L 302+60	81 LT	0408		2066.6																									1															1					1																																							
		0408	0409		2062.1	2061.2										92																																																																						
L 302+78	8 RT	0409		2070.0																									1	4.8																												1				1			1																					See Special Detail Sheet 2C-7
		0409	0410		2060.2	2051.8										128																																																																						
L 309+13	2 LT	0501		2047.1																									1															1			1																1																								See Special Detail Sheet 2C-7
		5001	0502		2042.6	2042.5								12																																																																								
L 309+00	2 RT	0502		2047.3																									1															1			1																1																								See Special Detail Sheet 2C-7
		0502	0503		2042.5	2041.9								52																																																																								
L 308+44	2 RT	0503		2048.3																									1	1.4														1			1																1																								See Special Detail Sheet 2C-7
		0503	0504		2041.9	2041.3								60																																																																								
L 308+44	62 RT	0504		2047.5																									1	1.4														1			1																																									
		0504	0505		2041.3	2036.1	1.1	28																																																																				2												
L 313+00	61 RT	0506		2042.6																									1															1			1																																									
		0506	0507		2038.1	2037.8								24																																																																								
L 312+74	61 RT	0507		2042.4																									1															1			1																																									
		0507	0508		2037.8	2034.0	3.1	24																																																																				2												
L 312+74	61 LT	0509		2042.5																									1															1			1																																									
		0509	0510		2039.7	2037.6	1.0	24																																																																				2												
L 318+46	62 RT	0511		2045.2																									1															1			1																																									
		0511	0520		2040.7	2040.0								64																																																																								
L 317+35	60 RT	0512		2044.7																									1	0.2														1			1																																									
		0512	0513		2039.6	2032.7	0.4	36																																																																				2												
L 318+46	62 LT	0514		2045.2																									1															1			1																																									
		0514	0522		2040.7	2040.0								64																																																																								
L 317+35	61 LT	0515		2044.7																									1	0.1														1			1																																									
		0515	0516		2039.6	2030.4	0.4	28																																																																			2												
L 318+18	2 RT	0517		2046.1																									1															1			1																																									
		0517	0518		2041.6	2041.4								12																																																																									
L 318+30	2 LT	0518		2046.1																									1															1			1																1																								See Special Detail Sheet 2C-7
		0518	0604		2041.4	2040.1								268																																																																								
L 308+00	2 LT	0519		2049.4																									1															1			1																1																								See Special Detail Sheet 2C-7
		0519	0503		2044.9	2043.8								44																																																																							
L 317+80	61 RT	0520		2044.7																									1															1			1																																									
		0520	0512		2040.0	2039.5								44																																																																							
L 317+80	62 LT	0522		2044.7																									1															1			1																																									
		0522	0515		2040.0	2039.6								44																																																																							
L 321+16	93 RT	0601		2042.4																																																																																	Open End
		0601	0603		2040.9	2040.8									28																																																																						
L 324+05	62 RT	0602		2058.9																									1															1			1																																									
		0602	0603		2054.4	2045.2								284																																																																								
SHEET TOTALS								184		40				1012	28	360													23	12.4									1					21			19		2									1				6			1									12		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