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COMPUTED BY: GL DATE: 5/12/2026

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
BP14.R014	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 12 .064	C. S. PIPE 15 .064	C. S. PIPE 18 .064	C. S. PIPE 24 .064	C. S. PIPE 30 .079	C. S. PIPE 36 .079	C. S. PIPE 42 .109	C. S. PIPE 48 .109	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48
L 10+06	15	RT	0401		1960.5																			
			0401	0402		1957.0	1956.5											32						
L 10+06	17	LT	0402		1960.6																			
			0402	0403		1956.4	1952.2											96						
L 11+10	16	LT	0403		1955.9																			
			0403	0413		1952.2	1949.3											48						
L 11+73	15	LT	0404		1954.5																			
			0404	0413		1950.0	1949.3											16						
DR1 10+40	12	LT	0406		1957.7																			
			0406	0407		1954.5	1953.5											36						
DR1 11+02	14	LT	0408		1955.0																			
			0408	0404		1951.5	1950.0											56						
DR1 11+06	40	LT	0410		1956.5																			
			0410	0408		1952.5	1952.0											24						
L 11+73	32	LT	0413		1952.9																			
			0413	0405		1949.3	1945.0	0.5		28														
L 10+17	19	RT	0415		1962.0																			
			0415	0401		1957.6	1957.4											12						
DR1 11+15	0	CL																						
SHEET TOTALS										28								320						
PROJECT TOTALS										28								320						

STRUCTURE	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	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. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28
0401				1														1	
0401–0402																			
0402				1															
0402–0403																			
0403				1															
0403–0413																			
0404				1															
0404–0413																			
0406				1											1	1			
0406–0407																			
0408				1															
0408–0404																			
0410				1														1	
0410–0408																			
0413				1															
0413–0405																			
0415				1														1	
0415–0401																			
DR1 11+15																			
SHEET TOTALS				9											1	1		3	
PROJECT TOTALS				9											1	1		3	

STRUCTURE	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	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
0401						1														
0401–0402																				
0402											1									1
0402–0403																				
0403											1									1
0403–0413																				
0404							1							1						
0404–0413																				
0406																				
0406–0407																				
0408								1						1						
0408–0404																				
0410				1																
0410–0408																				
0413											1									1
0413–0405																				
0415				1																
0415–0401																				
DR1 11+15																				
SHEET TOTALS				2		1	1	1			3			2						3
PROJECT TOTALS				2		1	1	1			3			2						3

STRUCTURE	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	30" C.S. ELBOW	36" C.S. ELBOW	48" C.S. ELBOW	BERM DITCH OUTLET STD. 850.11 (PER EACH)	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
0401																						
0401–0402																						
0402																						
0402–0403																						
0403																						
0403–0413																						
0404																						
0404–0413																						
0406																						
0406–0407																						
0408																						
0408–0404																						
0410																						
0410–0408																						
0413																						
0413–0405							2															
0415																						
0415–0401																						
DR1 11+15																					46	
																					60	
																					46	
SHEET TOTALS							2														152	
PROJECT TOTALS							2														152	

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