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USMVCLCTNN22X2

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
BR-0044	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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	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
L 13+30	43 LT	0401	0402		619.1	612.0			44							X				
L 14+50	20 LT	0403		618.3																
		0403	0404		615.6	588.9			64							X			X	X
L 15+23	71 LT	0501		584.5																
		0501	0502		578.6	562.0							44			X				
L 15+51	104 LT	0502		567.0																
		0502	0503		562.0	561.2							32							
L 17+50	20 RT	0504		606.0																
		0504	0505		603.3	597.9														
L 18+90	16 RT	0505		600.6																
		0505	0506		597.9	597.5														
L 18+90	16 LT	0506		600.6																
		0506	0507		597.5	553.7			104							X			X	X
L 25+04	16 RT	0508		576.1																
		0508	0509		573.3	573.0														
L 25+04	16 LT	0509		576.1																
		0509	0510		573.0	551.6			68							X			X	X
L 28+43	22 RT	0511		567.4																
		0511	0512		564.6	564.4														
L 28+86	22 RT	0512		567.4																
		0512	0513		564.4	555.7			52							X			X	X
L 30+05	20 LT	0601		566.9																
		0601	0602		564.0	561.6			16							X			X	X
L 30+79	39 LT	0603			563.3	562.7					60									
SHEET TOTALS									348		60		76							
PROJECT TOTALS									348		60		76							

LINE & STATION	C. S. PIPE .064 12	.064 15	.064 18	.064 24	.079 30	.079 36	.109 42	.109 48	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE
L 13+30																																			
L 14+50																																			
L 15+23																																			
L 15+51																																			
L 17+50																																			
																	140																		
L 18+90																																			
																	32																		
L 18+90																																			
L 25+04																																			
																	28																		
L 25+04																																			
L 28+43																																			
																	40																		
L 28+86																																			
L 30+05																																			
L 30+79																																			
SHEET TOTALS																	240																		
PROJECT TOTALS																	240																		

LINE & STATION	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. 852.06 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	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	15" DRAINAGE PIPE ELBOW	PIPE REMOVAL LIN. FT.	REMARKS
L 13+30																																		36	Remove 36 LF 15" RCP
L 14+50	1																					1									1				
																																	2		
L 15+23	1	0.9																			1														
L 15+51	1																				1														
L 17+50	1																				1														
L 18+90	1																				1														
L 18+90	1																				1														
L 25+04	1																				1														
L 25+04	1																				1														
L 28+43	1																				1														
L 28+86	1																				1														
L 30+05	1																				1														
L 30+79																																		45	Remove 45 LF 24" RCP
SHEET TOTALS	11	0.9																			9			2			9			8	81				
PROJECT TOTALS	11	0.9																			9			2			9			8	81				

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