RD266183

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-5313	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 %
L 14+57	16	LT	0401		78.1			
L 13+80	16	LT	0402		77.5			
			0401	0402		74.9	74.3	
L 13+80	23	LT	0403			74.2		
			0402	0403		74.3	74.2	
L 16+30	15	LT	0404		78.5			
L 16+80	16	LT	0405		78.1			
			0404	0405		75.3	74.9	
L 16+80	23	LT	0406			74.8		
			0405	0406		74.9	74.8	

Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC)

FROM-TO	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
0401													
0402													
0401-0402													
0403													
0402-0403		8								X	X		X
0404													
0405													
0404-0405													
0406													
0405-0406		8								X	X		X
SHEET TOTALS		16											
PROJECT TOTALS		16											

FROM-TO	C. S. PIPE 12 (.064)	C. S. 15 (.064)	C. S. 18 (.064)	C. S. 24 (.064)	C. S. 30 (.079)	C. S. 36 (.079)	C. S. 42 (.109)	R. C. PIPE CLASS III 12	III 15	III 18	III 24	III 30	III 36	III 42	R. C. PIPE CLASS IV 12	IV 15	IV 18	IV 24	IV 30	IV 36	IV 42	STRUCTURAL PLATE PIPE 60	66	72
0401																								
0402																								
0401-0402																80								
0403																								
0402-0403																								
0404																								
0405																								
0404-0405																52								
0406																								
0405-0406																								
SHEET TOTALS																132								
PROJECT TOTALS																132								

QUANTITIES FOR DRAINAGE STRUCTURES — NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)

FROM-TO	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE	DRAINAGE STRUCTURE MASONRY CY	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	
0401					1							
0402					1							
0401-0402												
0403												
0402-0403												
0404					1							
0405					1							
0404-0405												
0406												
0405-0406												
SHEET TOTALS					4							
PROJECT TOTALS					4							

FROM-TO	CONCRETE TRANSITIONAL SECTION: D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION: 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									
0402									
0401-0402									
0403									
0402-0403									
0404									
0405									
0404-0405									
0406									
0405-0406									
SHEET TOTALS									
PROJECT TOTALS									

FROM-TO	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
0401								1
0402								1
0401-0402								
0403								
0402-0403								
0404								1
0405								1
0404-0405								
0406								
0405-0406								
SHEET TOTALS								4
PROJECT TOTALS								4

FROM-TO	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	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						1							
0402						1							
0401-0402													
0403													
0402-0403													
0404						1							
0405						1							
0404-0405													
0406													
0405-0406													
SHEET TOTALS						4							
PROJECT TOTALS						4							

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