Z11777

COMPUTED BY: VHB DATE: 9/29/2025

CHECKED BY: VHB DATE: 9/29/2025

PROJECT NO.	SHEET NO.
BP14.R038	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	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Alternate Pipe (RCP, CSP, CAAP, HDPE, or PVC) SIZE 12	15	18	24	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	R. C. PIPE CLASS III SIZE 12	15	18	24	R. C. PIPE CLASS IV SIZE 12	15	18	24	30	R. C. PIPE CLASS V SIZE 12	15	18	24	30	STRUCTURAL PLATE PIPE SIZE 60	66	72		
DRWY 10+14	12 LT	0401		1468.3																															
		0401	0402		1463.3	1457.7					36	X																							
DRWY 10+73	11 RT	0403		1467.4																															
		0403	0409		1462.3	1462.0																16													
DRWY 10+61	5 RT	0409		1467.6																															
		0409	0404		1462.0	1461.8																28													
L2 11+17	16 LT	0405		1464.6																															
		0405	0406		1461.1	1460.2																		16											
L2 11+32	12 LT	0406		1463.7																															
		0406	0407		1460.2	1459.9																		32											
L1 12+34	23 RT	0408																				24													
DRWY 10+14	5 RT	0000																																	
L1 12+15	2 LT	0000																																	
L2 11+27	2 RT	0000																																	
SHEET TOTALS											36											68	48											
PROJECT TOTALS											36											68	48											

### R.C. PIPE CULVERTS, CONTRACTOR DESIGN			15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	24" SIDE DRAIN PIPE		ENDWALLS STD. 838.11 (FOR PIPES 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) A 0' THRU 5' EACH	B 5' THRU 10' LIN. FT.	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	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. (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	ADJUST D.I.	15" DRAINAGE PIPE ELBOW	##" SIDE DRAIN PIPE ELBOW	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
																															2					