R4LD071

COMPUTED BY:	BRC	DATE:	1/26/16
CHECKED BY:	BJH	DATE:	8/22/16

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2915C	3D-12

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 54 INCHES & OVER)

| 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 | Side Drain Pipe (RCP, CSP, CAAP, or HDPE) 54 | 60 | 66 | 72 | 78 | 84 | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | C. S. PIPE 54 | 60 | 66 | 72 | 78 | 84 | | | | R. C. PIPE CLASS III 54 | 60 | 66 | 72 | 78 | 84 | | R. C. PIPE CLASS IV 54 | 60 | 66 | 72 | 78 | 84 | | R. C. PIPE CLASS V 54 | 60 | 66 | 72 | 78 | 84 | | STRUCTURAL PLATE PIPE 60 | 66 | 72 | 84 | 60" WELDED STEEL PIPE 0.875" THICK, GRADE B IN SOIL | 60" WELDED STEEL PIPE 0.875" THICK, GRADE B NOT IN SOIL | 84" WELDED STEEL PIPE 1.0" THICK, GRADE B IN SOIL | 84" WELDED STEEL PIPE 1.0" THICK, GRADE B NOT IN SOIL | 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 | 5' THRU 10' LIN. FT. (A) | 10' AND ABOVE LIN. FT. (B) | C.B. STD. 840.01 OR STD. 840.02 | 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 | J.B. SPECIAL DESIGN | J.B. STD. 840.31 OR STD. 840.32 | ANGLED VANE GRATES AND FRAMES STD. 840.33 | T.B.J.B. STD. 840.34 OR 840.46 | T.B.D.I. STD. 840.35 OR STD. 840.46 | T.B.D.I. FOR STEEL GRATES STD. 840.36 | STEEL FRAME WITH TWO GRATES STD. 840.37 | TEMP STEEL PLATE COVER MASONRY DRAINAGE | T.B.J.B. SPECIAL DESIGN | M.H. STD. 840.51, STD. 840.52, OR STD. 840.53 | M.H. FRAME AND COVER STD. 840.54 | PIPE REMOVAL LIN. FT. | REMARKS |
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