COMPUTED BY: NM DATE: 3/24/2016

CHECKED BY: WJW DATE: 3/24/2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-4929	3D-1

RD24862I

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 | C.S. PIPE 12 | 15 | 18 | 24 | 30 | 36 | 42 | 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 | ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY | REINFORCED ENDWALLS CY | MASONRY DRAINAGE STRUCTURE CY | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') PER EACH (0' THRU 5.0') | LIN.FT. A 5.0' THRU 10.0' | B 10.0' AND ABOVE | C.B. STD. 840.01 OR STD. 840.02 | FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E | F | G | CONCRETE TRANSITIONAL SECTION D.I. STD. 862.04 OR STD. 862.06 | C.B. STD. 852.05 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME W/ TWO GRATES STD. 840.16 | G.D.I. TYPE "A" STD. 840.17 OR 840.26 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. TYPE "D" STD. 840.19 OR 840.28 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (W.S. SAG) FRAME W/ 3 GRATES STD. 840.22 | J.B. STD. 840.31 OR 840.32 | T.B.J.B. STD. 840.34 | T.B.G.D.I. STD. 840.36 | STEEL FRAME AND TWO GRATES STD. 840.37 | STEEL FRAME AND GRATE STD. 840.37 | M.H. STD. 840.51, STD. 840.52, OR STD.53 | M.H. FRAME AND COVER STD. 840.54 | CONVERT EXISTING D.I. TO C.B. | CONVERT EXISTING C.B. TO J.B. | CONVERT EXISTING D.I. TO T.B.J.B. | CONVERT EXISTING J.B. TO 2 G.I. | ADJUST EXISTING MANHOLE | ADJUST D.I. | REBUILD D.I. | 15" C.S. ELBOW | 18" C.S. ELBOW | 24"C.S. ELBOW | SPECIAL CONCRETE MEDIAN 2GI | BERM DITCH OUTLET STD. 859.10 (PER EACH) | PREFORMED SCOUR HOLE (PER EACH) | FLOWABLE FILL, C.Y. | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | CONC. & BRICK PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN. FT. | OPEN THROAT C.B. STD. 840.04 OR STD. 840.05 | PIPE CLEANOUT | REMARKS |
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