COMPUTED BY:	EGH	DATE:	10/24/2014
CHECKED BY:	SNM	DATE:	10/27/2014

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2915A	3D-10

RD24821

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 | LOCATION (LT, RT, OR CL)' | STRUCTURE NUMBER FROM | STRUCTURE NUMBER TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | SLOPE CRITICAL % | SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE 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 THICKNESS OR GAUGE 0.064 | 0.064 | 0.064 | 0.064 | 0.079 | 0.079 | 0.109 | 0.109 | R.C. PIPE CLASS III SIZE 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | R.C. PIPE CLASS IV SIZE 12 | 15 | 18 | 24 | 30 | 36 | 42 | 48 | ** " R.C. PIPE (CLASS V) | 15" RC PIPE CULVERTS, CONTRACTOR DESIGN | 18" RC PIPE CULVERTS, CONTRACTOR DESIGN | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (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 DROP INLET STD. 852.04 OR 852.06 | CATCH BASIN STD. 852.05 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE 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. FRAME WITH TWO GRATES STD. 840.20 WIDE/FLAT | G.D.I. FRAME WITH TWO GRATES STD. 840.22 WIDE/SAG | G.D.I. FRAME WITH TWO GRATES STD. 840.29 NARROW/FLAT | G.D.I. FRAME WITH TWO GRATES STD. 840.24 NARROW/SAG | J.B. STD. 840.31 OR 840.32 | T.B.J.B. STD. 840.34 | T.B.D.I. STD. 840.35 | MANHOLE FRAME AND COVER STD. 840.54 | BERM DRAINAGE OUTLET (BDO) STD. 850.10 | BERM DRAINAGE OUTLET (BDO) STD. 850.11 | CONCRETE MEDIAN DI TYPE-A, EXTRA DEPTH (840D17) | FLOWABLE FILL (C.Y.) | 15" SIDE DRAIN PIPE ELBOWS | 18" SIDE DRAIN PIPE ELBOWS NO. & SIZE | 24" SIDE DRAIN PIPE ELBOWS NO. & SIZE | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | PSH (PREFORMED SCOUR HOLE (QTY. EACH) | PIPE REMOVAL LIN. FT. | 15" PIPE END SECTION | 18" PIPE END SECTION | REMARKS |
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