| COMPUTED BY: D. W. GARDNER | DATE: 09/10/13 |
|---|---|
| CHECKED BY: JBG | DATE: 08/04/14 |

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| B-4803 | 3D-1 |

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

# SUB–REGIONAL
# LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout.
See "Standard Specifications For Roads and Structures, Section 300–5".

| STATION | LOCATION (LT,RT, OR CL) | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | SLOPE CRITICAL | 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| –L– 14+72.00 | RT | 0401 | | 550.39 | | | | | | | | | | | | | | | |
| –L– 14+72.00 | RT | 0401 | 0402 | | 546.14 | | 0.9 | | 20 | | | | | | | | | | |
| –L– 14+72.00 | LT | 0402 | | 550.44 | | | | | | | | | | | | | | | |
| –L– 14+72.00 | LT | 0402 | 0403 | | 545.88 | 535.09 | | | 40 | | | | | | | X | | | |
| –L– 17+75.00 | LT | 0406 | | 550.00 | | | | | | | | | | | | | | | |
| –L– 17+75.00 | LT | 0406 | 0407 | | 545.30 | 546.00 | 1.0 | | 68 | | | | | | | | | | |
| –L– 17+75.00 | LT | 0406 | 0408 | | 545.10 | 537.40 | | | 72 | | | | | | | X | | | |
| –L– 18+23.00 | RT | 0407 | | 549.25 | | | | | | | | | | | | | | | |
| –L– 20+50.00 | RT | 0405 | | | | | | | 24 | | | | | | | | | | |
| –L– 21+60.00 | RT | | | | | | | | | | | | | | | | | | |
| –L– 25+51.00 | CL | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | | 224 | | | | | | | | | | |

SIZE / THICKNESS OR GAUGE

| STATION | C.S. PIPE 12" .064 | 15" .064 | 18" .064 | 24" .064 | 36" .079 | 42" .109 | 48" .109 | R.C. PIPE (CLASS III) 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE (CLASS IV) 12" | 15" | 18" | 24" | 30" | 36" | 42" | 48" |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| –L– 14+72.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 14+72.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 14+72.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 14+72.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 17+75.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 17+75.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 17+75.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 18+23.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 20+50.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 21+60.00 | | | | | | | | | | | | | | | | | | | | | | |
| –L– 25+51.00 | | | | | | | | | | | | | | | | | | | | | | |
| TOTALS | | | | | | | | | | | | | | | | | | | | | | |

| STATION | 15" SIDE DRAIN PIPE | 18" SIDE DRAIN PIPE | ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P. | C.S.P. | QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0') | * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| –L– 14+72.00 | | | | | 1 | | | | | | |
| –L– 14+72.00 | | | | | | | | | | | |
| –L– 14+72.00 | | | | | 1 | | | | | | |
| –L– 14+72.00 | | | | | | | | | | | |
| –L– 17+75.00 | | | | | 1 | | | | | | |
| –L– 17+75.00 | | | | | | | | | | | |
| –L– 17+75.00 | | | | | | | | | | | |
| –L– 18+23.00 | | | | | 1 | | | | | | |
| –L– 20+50.00 | | | | | | | | | | | |
| –L– 21+60.00 | | | | | | | | | | | |
| –L– 25+51.00 | | | | | | | | | | | |
| TOTALS | | | | | 4 | | | | | | |

| STATION | CONCRETE TRANSITIONAL SECTION CATCH BASIN | DROP INLET | T.B.D.I. STD. 840.35 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29 | G.D.I. TYPE "B" STD. 840.18 OR 840.27 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | DRAINAGE PIPE ELBOWS NO. & SIZE | PIPE REMOVAL LIN.FT. | REMARKS |
|---|---|---|---|---|---|---|---|---|---|
| –L– 14+72.00 | | | 1 | 1 | | | | | |
| –L– 14+72.00 | | | | | | | | | |
| –L– 14+72.00 | | | 1 | 1 | | | | | |
| –L– 14+72.00 | | | | | | | 2–15" | | |
| –L– 17+75.00 | | | | | 1 | 1 | | | |
| –L– 17+75.00 | | | | | | | | | |
| –L– 17+75.00 | | | | | | | 2–15" | | |
| –L– 18+23.00 | | | | | 1 | 1 | | | |
| –L– 20+50.00 | | | | | | | | | |
| –L– 21+60.00 | | | | | | | | 40 | REMOVE 18" RCP |
| –L– 25+51.00 | | | | | | | | 40 | REMOVE 18" RCP |
| TOTALS | | | 2 | 2 | 2 | 2 | 4–15" | 80 | |

ABBREVIATIONS

| | |
|---|---|
| C.B. | CATCH BASIN |
| N.D.I. | NARROW DROP INLET |
| D.I. | DROP INLET |
| G.D.I. | GRATED DROP INLET |
| G.D.I. (N.S.) | GRATED DROP INLET (NARROW SLOT) |
| J.B. | JUNCTION BOX |
| M.H. | MANHOLE |
| T.B.D.I. | TRAFFIC BEARING DROP INLET |
| T.B.J.B. | TRAFFIC BEARING JUNCTION BOX |

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