PROJECT REFERENCE NO.	SHEET NO.
U-5810	3D-4

COMPUTED BY:	AMK	DATE:	3/2/2026
CHECKED BY:	CAH	DATE:	3/3/2026

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

| LINE & STATION / SIZE / THICKNESS OR GAUGE | OFFSET | STRUCTURE NO. FROM | STRUCTURE NO. TO | TOP ELEVATION | INVERT ELEVATION | INVERT ELEVATION | % MINIMUM REQUIRED SLOPE | SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, PP 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, PP, OR PVC | C.S. PIPE 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS III 15" | 18" | 24" | 30" | 36" | 42" | 48" | R.C. PIPE CLASS IV 15" | 18" | 24" | 30" | 36" | 42" | 48" | PIPE AS NOTED HDPE 6" | RCP-V 15" | WELDED STEEL, IN SOIL 36" | WELDED STEEL, NOT IN SOIL 36" | 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' | LIN. FT. 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 | CATCH BASIN | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND 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. FRAME WITH TWO FLAT GRATES STD. 840.20 | G.D.I. FRAME WITH TWO GRATES STD. 840.22 | G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24 | G.D.I. (N.S.) FR. WITH TWO FLAT GRATES. STD. 840.29 | J.B. STD. 840.31 OR 840.32 | TBJB STD. 840.34 | T.B.D.I. STD. 840.35 | STEEL GRATE AND FRAME STD. 840.37 | SPRING BOX STD. 840.41 | M.H. FRAME AND COVER STD. 840.54 | PIPE COLLAR | ADJUST CB | ADJUST DI | BERM DRAINAGE OUTLET STD. (4" CONCRETE PAVED DITCH) | TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE | ENERGY DISSIPATOR. SEE DETAIL 2C-7 | FLOWABLE FILL (CY) | C.S. PIPE ELBOWS | CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71 | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | PIPE REMOVAL LIN. FT. | REMARKS |
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