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TGSZJR-LAPTOP

COMPUTED BY:	Zachary Richard, PE	DATE:	3/23/2022
CHECKED BY:	David Petty, PE	DATE:	5/25/2022

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
A-0009CB	3D-3

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 | TO | TOP ELEVATION FT. | INVERT ELEVATION FT. | INVERT ELEVATION FT. | MINIMUM REQUIRED SLOPE % | Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 15 | 18 | 24 | 30 | 36 | 42 | 48 | DO NOT USE RCP | DO NOT USE CSP | DO NOT USE CAAP | DO NOT USE HDPE | DO NOT USE PVC | C. S. PIPE 15 .064 | 18 .064 | 24 .064 | 30 .064 | 36 .064 | 42 .064 | 48 .064 | R. C. PIPE CLASS III 15 | 18 | 24 | 30 | 36 | 42 | 48 | R. C. PIPE CLASS IV 15 | 18 | 24 | 30 | 36 | 42 | 36" CAA PIPE, 0.075" THICK | 48" CAA PIPE, 0.105" THICK | 36" WELDED STEEL PIPE 0.5" THICK, GRADE B, IN SOIL | 36" WELDED STEEL PIPE 0.5" THICK, GRADE B, NOT IN SOIL | 18" PIPE REHABILITATION CIPP LINER | 24" PIPE REHABILITATION CIPP LINER | ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY | QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 0' THRU 5' EACH | A 5' THRU 10' LIN. FT. | B 10' AND ABOVE LIN. FT. | 4-SIDED OTCB, SEE DETAIL SHEET 2D-1 | 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, 840.26, OR 840.45 | G.D.I. TYPE "B" STD. 840.18, 840.27, OR 840.45 | G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28 | 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 | J.B. STD. 840.31 OR STD. 840.32 | T.B.J.B. STD. 840.34 | T.B.D.I. STD. 840.35 | 6" PVC PIPE (SPRING BOX) | SPRING BOX STD. 840.41 | 6" HDPE PIPE (LF) | M.H. FRAME AND COVER STD. 840.54 | TB PRECAST DRAINAGE STRUCTURE STD. 840.46 | PRECAST 4' DIA MH STD 840.52 | CONTRACTOR DESIGN 4' DIA MH OVER 30' | T.B. G.D.I TYPE "A" SEE SHEET 2D-3 | CONVERT EXISTING D.I. TO J.B. SEE SHEET 2D-2 | ADJUST D.I. | MIN DEPTH TYPE A SPECIAL DSN SEE SHEET 2D-7 | 15" C.S. ELBOW, 0.064" THICK | 18" C.S. ELBOW, 0.064" THICK | 24" C.S. ELBOW, 0.064" THICK | 30" C.S. ELBOW, 0.064" THICK | 36" C.S. ELBOW, 0.064" THICK | 42" C.S. ELBOW, 0.064" THICK | 48" C.S. ELBOW, 0.064" THICK | 48" C.A.A. ELBOW, 0.105" THICK | BERM DRAINAGE OUTLET STD. 850.10 (SY) | BERM DRAINAGE OUTLET STD. 850.11 (SY) | BERM DRAINAGE OUTLET 36" DSN,SHT 2D-4 (SY) | BERM DRAINAGE OUTLET 42" DSN,SHT 2D-5 (SY) | BERM DRAINAGE OUTLET 48" DSN,SHT 2D-6 (SY) | FLOWABLE FILL CY | CONCRETE COLLARS CL. "B" STD. 840.72 CY | PIPE REMOVAL LIN. FT. | REMARKS |
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