Z1501

COMPUTED BY: VHB DATE: 8/24/2021

CHECKED BY: VHB DATE: 8/24/2021

PROJECT NO.	SHEET NO.
U-4405A	3D-6

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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) 12	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 12 .064	15 .064	18 .064		R. C. PIPE CLASS III 12	15	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48
L 36+92	63 RT	0000																																	
L 37+61	63 RT	0000																																	
L 24+26	36 RT	0000																																	
L 30+17	61 RT	0000																																	
L 30+89	61 RT	0000																																	
L 31+73	63 RT	0000																																	
L 32+37	48 RT	0000																																	
L 33+06	58 RT	0000																																	
L 34+22	16 RT	0000																																	
L 38+74	54 RT	0000																																	
L 39+01	65 RT	0000																																	
Y4 19+44	1 LT	0000																																	
L 41+41	60 RT	0000																																	
L 48+46	68 RT	0000																																	
L 49+72	61 LT	0000																																	
L 25+56	70 LT	0000																																	
L 45+65	2 RT	0000																																	
L 36+14	53 RT	0000																																	
L 35+54	54 RT	0000																																	
L 36+20	70 LT	0000																																	
L 36+41	32 RT	0000																																	
L 28+02	62 RT	0000																																	
L 25+28	65 RT	0000																																	
L 37+84	77 LT	0000																																	
L 38+51	76 LT	0000																																	
L 34+23	36 RT	0000																																	
L 34+23	55 RT	0000																																	
L 49+46	3 RT	0000																																	
L 46+64	0 CL	0000																																	
L 38+00	34 LT	0000																																	
L 38+07	33 RT	0000																																	
L 20+59	71 RT	0000																																	
L 19+41	1 RT	0000																																	
L 15+89	67 LT	0000																																	
SR3 13+10	11 LT	0000																																	
SR3 13+21	17 LT	0000																																	
L 58+00	50 RT	0713		219.0																															
		0713	0716		216.0	214.3																							216						
L 58+00	49 LT	0714		219.0																															
		0714	0718		212.9	212.2																									240				
L 58+06	73 LT	0715		216.0																															
		0715	0714		213.5	213.4				24																									
L 60+16	50 RT	0716		217.3																															
		0716	0717		214.1	214.0																								24					
L 60+40	50 RT	0717		217.4																															
		0717	0718		214.0	213.6																								96					
L 60+40	49 LT	0718		216.8																															
		0718	0720		211.7	211.4																										96			
L 61+39	72 LT	0719		213.9																															
		0719	0720		209.4	209.3				24																									
SHEET TOTALS										48																			216	120	240	96			

LINE & STATION	STRUCTURE NUMBER FROM	TO	30" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.5" THICK, GRADE B IN SOIL	36" WELDED STEEL PIPE 0.5" THICK, GRADE B NOT IN SOIL	15" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	QUANTITIES FOR DRAINAGE STRUCTURES 0' THRU 5' EACH	5' THRU 10' (A) LIN. FT.	10' AND ABOVE (B) LIN. FT.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G		CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	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 STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 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	15" SLOTTED DRAIN	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	T.B.G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING D.I. TO J.B.	ADJUST C.B.	ADJUST D.I.	ADJUST JB W/MH	15" C.S. ELBOW	18" C.S. ELBOW	12" DRAINAGE PIPE ELBOW	15" DRAINAGE PIPE ELBOW	24" DRAINAGE PIPE ELBOW	30" DRAINAGE PIPE ELBOWS	48" DRAINAGE PIPE ELBOW
L 36+92	0000																																													
L 37+61	0000																																													
L 24+26	0000																																													
L 30+17	0000																																													
L 30+89	0000																																													
L 31+73	0000																																													
L 32+37	0000																																													
L 33+06	0000																																													
L 34+22	0000																																													
L 38+74	0000																																													
L 39+01	0000																																													
Y4 19+44	0000																																													
L 41+41	0000																																													
L 48+46	0000																																													
L 49+72	0000																																													
L 25+56	0000																																													
L 45+65	0000																																													
L 36+14	0000																																													
L 35+54	0000																																													
L 36+20	0000																																													
L 36+41	0000																																													
L 28+02	0000																																													
L 25+28	0000																																													
L 37+84	0000																																													
L 38+51	0000																																													
L 34+23	0000																																													
L 34+23	0000																																													
L 49+46	0000																																													
L 46+64	0000																																													
L 38+00	0000																																													
L 38+07	0000																																													
L 20+59	0000																																													
L 19+41	0000																																													
L 15+89	0000																																													
SR3 13+10	0000																																													
SR3 13+21	0000																																													
L 58+00	0713								1			1		1																																
	0713	0716																																											
L 58+00	0714								1	1.1		1			1																															
	0714	0718																																											
L 58+06	0715								1											1	1																									
	0715	0714																																											
L 60+16	0716								1			1		1																																
	0716	0717																																											
L 60+40	0717								1			1		1																																
	0717	0718																																											
L 60+40	0718								1	0.1		1			1																															
	0718	0720																																											
L 61+39	0719								1											1	1																									
	0719	0720																																											
SHEET TOTALS									7	1.2		5		3	2					2	2																									

LINE & STATION	STRUCTURE NUMBER FROM	TO	PIPE CLEAN OUT CY	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 36+92	0000						17	
L 37+61	0000						16	
L 24+26	0000						61	
L 30+17	0000						65	
L 30+89	0000						73	
L 31+73	0000						89	
L 32+37	0000						47	
L 33+06	0000						13	
L 34+22	0000			2				
L 38+74	0000						18	
L 39+01	0000						19	
Y4 19+44	0000			38				
L 41+41	0000						29	
L 48+46	0000						82	
L 49+72	0000						49	
L 25+56	0000						41	
L 45+65	0000			6				
L 36+14	0000						21	
L 35+54	0000						21	
L 36+20	0000						40	
L 36+41	0000						775	
L 28+02	0000						357	
L 25+28	0000						185	
L 37+84	0000						8	
L 38+51	0000						19	
L 34+23	0000						15	
L 34+23	0000			1				
L 49+46	0000						557	
L 46+64	0000						131	
L 38+00	0000			4				
L 38+07	0000			4				
L 20+59	0000						74	
L 19+41	0000						376	
L 15+89	0000						32	
SR3 13+10	0000						24	
SR3 13+21	0000					0.029		
L 58+00	0713							
	0713	0716						
L 58+00	0714							
	0714	0718						
L 58+06	0715							
	0715	0714						
L 60+16	0716							
	0716	0717						
L 60+40	0717							
	0717	0718						
L 60+40	0718							
	0718	0720						
L 61+39	0719							
	0719	0720						
SHEET TOTALS				55		0.029	3254	

ABBREVIATIONS

- C.A.A. CORRUGATED ALUMINIUM ALLOY
- C.B. CATCH BASIN
- C.S. CORRUGATED STEEL
- D.I. DROP INLET
- G.D.I. GRATED DROP INLET
- H.D.P.E. HIGH DENSITY POLYETHYLENE
- J.B. JUNCTION BOX
- M.H. MANHOLE
- N.S. NARROW SLOT
- P.V.C. POLYVINYL CHLORIDE
- R.C. REINFORCED CONCRETE
- T.B.D.I. TRAFFIC BEARING DROP INLET
- T.B.J.B. TRAFFIC BEARING JUNCTION BOX
- W.S. WIDE SLOT