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BELAM-NEW

COMPUTED BY: DJS DATE: 04/19/2023

CHECKED BY: BNE DATE: 04/19/2023

PROJECT NO.	SHEET NO.
R-2707D	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	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 15	18	24	30	36	42	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE HDPE	DO NOT USE PVC	DO NOT USE PP PIPE	C. S. PIPE 15 .064	18 .064	24 .064	36 .079	R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	36	42	48	R. C. PIPE CLASS V 30	48	42" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	48" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	16" WELDED STEEL PIPE 0.281" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	18" WELDED STEEL PIPE 0.312" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	30" WELDED STEEL PIPE 0.500" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	42" WELDED STEEL PIPE 0.625" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	48" WELDED STEEL PIPE 0.688" THICK, GRADE B (50% IN SOIL, 50% NOT IN SOIL)	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.	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STD. 840.03 GRATE TYPE E	F	G		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. (W.S. FLAT) FRAME WITH GRATE STD. 840.20	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	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	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	SPRING BOX STD. 840.41	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING D.I. TO J.B. w/ MH	ADJUST D.I.	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	24" SIDE DRAIN PIPE ELBOW	30" SIDE DRAIN PIPE ELBOW	36" SIDE DRAIN PIPE ELBOW	18" SLUICE GATE (25" SIZE SLUICE GATE)	24" SLUICE GATE (32" SIZE SLUICE GATE)	30" SLUICE GATE (38.75" SIZE SLUICE GATE)	BERM DITCH OUTLET STD. 850.10	BERM DITCH OUTLET STD. 850.11	ENERGY DISSIPATION BASIN	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 759+00	58 RT	1308		798.1																																											1											1			1																										
		1308	1309		795.3	794.5																							96																																																										
L 760+00	58 RT	1309		797.2																																											1											1			1																										
		1309	1310		794.5	793.4																							96																																																										
L 761+00	58 RT	1310		796.2																																											1											1			1																										
		1310	1311		793.4	791.4	0.3																						56																																																										
L 761+00	0 CL	1311		794.2																																											1											1					1																								
		1311	1314		791.4	785.4	0.5																344																																																																	
L 764+45	58 LT	1312		791.1																																											1	0.2										1			1																										
		1312	1314		786.0	785.4																							56																																																										
L 764+45	58 RT	1313		791.1																																											1											1			1																										
		1313	1314		788.4	785.4																							56																																																										
L 764+45	0 CL	1314		789.2																																											1											1					1																								
		1314	1404		785.4	771.5	0.5																							404																																																								
L 762+50	77 LT	1315		791.1																																											1											1					1																								
		1315	1316		788.4	767.1	1.3	164						X																																																												2															
L 764+10	120 LT	1316		771.0																																											1																				1				1																			
		1316	1317		767.1	767.0	0.3	16																																																																															
L 763+90	108 RT	1318		776.9																																										6.000																																															
		1318	1319		776.9	764.6																													232																																																							
PVTENT6 10+32	0 CL	1320						28																																																																																		
Y3 27+21	32 RT	1321						36																																																																																	
PVTENT2 10+32	0 CL	1322						24																																																																																	
L 765+50	58 LT	1401		789.2																																											1											1			1																										
		1401	1312		786.5	786.0																							104																																																										
L 768+50	58 RT	1402		782.9																																											1											1			1																										
		1402	1404		780.1	776.9																							56																																																										
L 768+50	106 LT	1403		775.0																																											1											1					1																								
		1403	1404		772.2	771.7																	104																																																																		
L 768+50	0 CL	1404		780.9																																											1	4.9									1						1																									
		1404	1408		771.0	764.2	0.3																		396																																																														
L 771+50	58 RT	1405		774.9																																											1											1			1																										
		1405	1406		772.1	770.8																							44																																																										
L 771+95	58 RT	1406		773.6																																											1											1			1																										
		1406	1408		770.8	764.9																							80																																																										
L 772+50	82 LT	1407		767.9																																											1											1					1																								
		1407	1408		765.2	764.9																	84																																																																	
L 772+50	0 CL	1408		769.9																																											1	0.8									1						1																									
		1408	1410		764.2	748.7	0.7																		496																																																														
L 777+50	58 RT	1409		755.4																																											1											1			1																										
		1409	1410		752.7	749.5																							56																																																											
L 777+50	0 CL	1410		753.5																																											1	0.3									1						1																									
		1410	1501		748.2	732.0	0.3																			496																																																													
L 777+14	140 RT	1412	1413		720.0	711.5						72		X																																																																2											
L 782+50	0 CL	1501		737.3																																											1	0.3									1						1																									
		1501	1503		732.0	731.7	0.3																			56																																																											
L 782+35	58 RT	1502		739.6																																											1											1			1																										
		1502	1503		736.9	733.0																							12																																																										
L 782+50	58 RT	1503		739.2																																											1	2.4										1			1																										
		1503	1504		731.7	727.0	0.4				52																																																																														
SHEET TOTALS								268			52	72											532		892	552				712	404					232										6.000	22	8.9									4	17			12		9			1				1			2				2											

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