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BELAM-NEW

COMPUTED BY:	DJS	DATE:	04/04/2023
CHECKED BY:	BNE	DATE:	04/04/2023

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-2707E	3D-8

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
L 866+97	83 RT																																						
L 866+71	32 RT																																						
L 866+44	43 LT																																						
L 871+46	30 RT																																						
L 876+35	93 RT																																						
L 874+72	0 CL																																						
L 876+92	41 RT																																						
L 877+73	1 RT																																						
L 877+91	99 RT																																						
L 878+21	79 RT																																						
L 877+94	56 LT																																						
L 875+13	59 RT																																						
L 880+05	98 RT																																						
L 902+53	32 LT																																						
L 890+53	46 RT																																						
L 894+07	46 RT																																						
L 904+82	463 LT																																						
L 914+44	21 LT																																						
SR10 21+00	68 LT																																						
SR10 22+02	44 LT																																						
SR10 27+88	20 RT																																						
SR10 22+67	50 LT																																						
Y42RPD 20+73	56 LT																																						
Y42RPD 21+83	36 RT																																						
SR9 12+06	15 RT																																						
SR9 12+07	21 LT																																						
SR9 14+67	16 RT																																						
SR9 13+89	54 LT																																						
Y42RPC 16+87	20 RT																																						
PVTENT2 11+35	2 LT																																						
L 861+07	63 LT																																						
L 861+09	4 RT																																						
L 862+55	31 LT																																						
L 892+70	44 LT																																						
L 914+38	35 RT																																						
L 913+61	9 RT																																						
L 917+48	32 RT																																						
L 917+39	24 LT																																						
SR7 43+33	24 RT																																						
SHEET TOTALS																																							
PROJECT TOTALS								1516	1192	136	216		204						176	116			1720	2660	880	328			72	1572	620	920			108	324		156

LINE & STATION	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 866+97																																																	51	
L 866+71																																															4			
L 866+44																																															6			
L 871+46																																															4			
L 876+35																																																	85	
L 874+72																																															36			
L 876+92																																															11			
L 877+73																																																	136	
L 877+91																																																	43	
L 878+21																																																	42	
L 877+94																																																	49	
L 875+13																																																	37	
L 880+05																																																	22	
L 902+53																																																	74	
L 890+53																																															5			
L 894+07																																															5			
L 904+82																																																	23	
L 914+44																																															5			
SR10 21+00																																																	27	
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SR10 22+67																																																	33	
Y42RPD 20+73																																																	40	
Y42RPD 21+83																																																	37	
																																																	30	
SR9 12+06																																																	42	
SR9 12+07																																																	41	
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PVTENT2 11+35																																																	131	
L 861+07																																																	41	
L 861+09																																															11			
L 862+55																																															5			
L 892+70																																																	23	
L 914+38																																															5			
L 913+61																																																	99	
L 917+48																																															3			
L 917+39																																															4			
SR7 43+33																																															5			
SHEET TOTALS																																															109			1232
PROJECT TOTALS			356	156	172	196	420	21.000	110	64.4	8	5		3		7	7	11	62	3	2	22	6	51	4	4	11	1	4	1	14	3	6	14	17		2					1			388	5.9212		2602

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