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PROJECT NO.	SHEET NO.
U-6005	3D-1

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 %	Drainage Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 12	15	18	24	30	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	DO NOT USE PP PIPE
L 11+82	28 RT	0401		977.3														
		0401	0402		973.2	971.2												
L 12+51	17 RT	0402		974.4														
		0402	0407		971.2	960.7	0.3											
L 13+08	41 LT	0403		970.6														
		0403	0404		967.8	967.7			20					X	X	X	X	X
L 13+08	23 LT	0404		973.3														
		0404	0405		967.7	967.2												
L 14+20	22 LT	0405		971.2														
		0405	0406		967.2	967.0			44					X	X	X	X	X
L 16+01	22 RT	0407		968.5														
		0407	0410		959.9	959.5	0.3											
Y3 10+80	22 RT	0408		965.0														
		0408	0407		960.3	959.9					64			X	X	X	X	X
L 16+50	27 LT	0409		968.0														
		0409	0412		964.8	964.5												
L 16+85	27 RT	0410		967.8														
		0410	0413		959.5	959.3	0.3											
L 17+15	49 RT	0411		965.9														
		0411	0413		963.6	960.1			24							X	X	X
L 17+19	27 LT	0412		967.7														
		0412	0415		964.5	964.4												
L 17+19	27 RT	0413		967.7														
		0413	0416		959.3	959.3	0.4											
L 17+29	27 LT	0415		967.7														
		0415	0414		958.5	958.3						36		X	X	X	X	X
L 17+29	27 RT	0416		967.7														
		0416	0415		958.8	958.5												
L 17+40	27 LT	0417		967.7														
		0417	0415		964.5	964.4												
L 17+40	27 RT	0418		967.7														
		0418	0416		964.5	964.4												
L 18+00	27 LT	0419		967.9														
		0419	0417		964.8	964.5												
L 18+00	27 RT	0420		967.9														
		0420	0418		964.8	964.5												
L 18+60	27 RT	0421		968.4														
		0421	0420		965.3	964.8												
L 18+61	42 RT	0422		968.1														
		0422	0421		965.8	965.3			16					X	X	X	X	X
L 19+25	27 LT	0424		969.3														
		0424	0423		965.3	965.2	0.6				24			X	X	X	X	X
L 20+65	27 LT	0425		971.8														
		0425	0424		968.4	966.1	1.7											
Y4 12+92	13 RT	0426		972.1														
		0426	0425		968.9	968.6			40					X	X	X	X	X
Y5 10+60	13 RT	0427		970.2														
		0427	0428		967.0	963.3	0.4		56					X	X	X	X	X
L 21+28	55 RT	0429		972.4														
		0429	0427		969.2	967.0												
						SHEET TOTALS			200		88	36						

LINE & STATION	C. S. PIPE 12	15	18	24	30	36	42	48	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	R. C. PIPE CLASS V 12	15	18	24	30	36	42	48
	.064	.064	.064	.064	.079	.079	.109	.109																								
L 11+82																																
																		68														
L 12+51																																
																		348														
L 13+08																																
L 13+08																																
																		112														
L 14+20																																
L 16+01																																
																				84												
Y3 10+80																																
L 16+50																																
																		68														
L 16+85																																
																				32												
L 17+15																																
L 17+19																																
																		8														
L 17+19																																
																				8												
L 17+29																																
L 17+29																																
																					52											
L 17+40																																
																		8														
L 17+40																																
																		8														
L 18+00																																
																		60														
L 18+00																																
																		60														
L 18+60																																
																		60														
L 18+61																																
L 19+25																																
L 20+65																																
																			140													
Y4 12+92																																
Y5 10+60																																
L 21+28																																
																		32														
SHEET TOTALS																		832	140	124	52											

LINE & STATION	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. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION C.B. STD. 852.05	OPEN THROAT C.B. STD. 840.04 OR STD. 840.05	CONCRETE BRIDGE APPROACH D.I. STD. 840.13	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. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	J.B. STD. 840.31 OR STD. 840.32	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	ADJUST C.B.	ADJUST D.I.	15" DRAINAGE PIPE ELBOW	15" C.S. ELBOW	18" C.S. ELBOW	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 11+82	1			1		1																										
L 12+51	1			1		1																										
L 13+08	1													1		1																
L 13+08	1	0.6		1			1																									
L 14+20	1			1			1																									
L 16+01	1	3.6		1		1																										
Y3 10+80	1												1		1	1																3GI-A
L 16+50	1			1			1																									
L 16+85	1	3.3		1		1																										
L 17+15	1											1	1																			
																							2									
L 17+19	1			1			1																									
L 17+19	1	3.4		1		1																										
L 17+29	1	4.2		1	1																											
L 17+29	1	3.9		1	1																											
L 17+40	1			1		1																										
L 17+40	1			1			1																									
L 18+00	1			1		1																										
L 18+00	1			1			1																									
L 18+60	1			1			1																									
L 18+61	1											1	1																			
L 19+25	1			1		1																										
L 20+65	1			1		1																										
Y4 12+92	1			1			1																									
Y5 10+60	1			1		1																										
L 21+28	1			1			1																									
SHEET TOTALS	25	19.0		21	2	10	9					2	2	1	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