MH4585

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PROJECT NO.	SHEET NO.
U-5808	3D-2

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	OFFSET		STRUCTURE NUMBER FROM	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE)										C. S. PIPE				R. C. PIPE CLASS III		
SIZE / THICKNESS OR GAUGE									12	15	18	24	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	12 .064	15 .064	18 .064	24 .064	12	15	18
Y1A 11+38	19	RT	0433		705.2																				
			0433	0430		701.5	701.3																		
L1 43+78	21	RT	0434		705.2																				
			0434	0405		701.1	700.6																		
Y1B 12+03	3	LT																							
L2 52+24	0	CL	0501			691.8	690.3																		
L2 53+47	0	CL	0502		728.9																				
			0502	0503		724.0	722.1																		
L2 53+43	33	RT	0503		727.8																				
			0503	0504		722.1	691.2			76			X												
L2 53+42	109	RT	0504																						
L2 56+55	0	CL	0505		727.9																				
			0505	0506		723.1	722.1																		
L2 56+56	33	RT	0506		726.9																				
			0506	0507		722.1	691.2			88			X												
L2 56+62	120	RT	0507																						
L2 60+00	6	LT	0508		708.9																				
			0508	0509		704.9	701.0																		
L2 60+65	8	LT	0509		705.0																				
			0509	0511		701.0	699.4																		
L2 60+00	39	RT	0510		707.9																				
			0510	0511		703.9	699.4																		
L2 60+66	40	RT	0511		704.4																				
			0511	511A		699.4	695.7	0.3																	
L2 61+80	40	RT	511A		698.7																				
			511A	0512		695.7	690.4			32															
L2 61+80	70	RT	0512																						
L2 62+50	4	LT	0515		695.1																				
			0515	0516		692.1	690.6																		
L2 62+93	3	LT	0516		693.6																				
			0516	0518		690.6	690.1																		
L2 62+50	33	LT	0517		694.3																				
			0517	0518		691.3	690.1																		
L2 62+93	33	LT	0518		693.1																				
			0518	0608		690.1	686.0																		
L2 56+88	0	CL	0520			692.2	690.0																		
L2 59+80			0521			690.8	687.9																		
Y2 12+10	21	RT	0602		692.2																				
			0602	0603		689.2	688.7																		
Y2 12+37	21	RT	0603		692.0																				
			0603	0604		688.7	688.5																		
Y2 12+50	22	RT	0604		692.0																				
			0604	0625		688.5	687.5	0.3																	
L2 63+90	8	LT	0605		691.5																				
			0605	0606		686.5	685.7	0.5																	
L2 63+86	34	RT	0606		690.7																				
			0606	0607		685.7	682.5	0.6		40															
Y2 12+77	34	LT	0610		691.6																				
			0610	0611		687.0	686.9			48															
Y2 12+78	81	LT	0611		689.7																				
SHEET TOTALS										284															

LINE & STATION	STRUCTURE NUMBER FROM	TO	R. C. PIPE CLASS IV									R. C. PIPE CLASS V			ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	DRAINAGE STRUCTURE MASONRY CY	QUANTITIES FOR DRAINAGE STRUCTURES (NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)) 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
			12	15	18	24	30	36	72	78	84	12	15	18										
Y1A 11+38	0433																	1			1		1	
	0433	0430		40																				
L1 43+78	0434																	1						
	0434	0405		32																				
Y1B 12+03																								
L2 52+24	0501							224							3.400									
L2 53+47	0502																	1						
	0502	0503		32																				
L2 53+43	0503																	1						
	0503	0504																						
L2 53+42	0504																							
L2 56+55	0505																	1						
	0505	0506		32																				
L2 56+56	0506																	1						
	0506	0507																						
L2 56+62	0507																							
L2 60+00	0508																	1			1		1	
	0508	0509		64																				
L2 60+65	0509																	1			1		1	
	0509	0511		48																				
L2 60+00	0510																	1						
	0510	0511		68																				
L2 60+66	0511																	1						
	0511	511A		116																				
L2 61+80	511A																	1						
	511A	0512																						
L2 61+80	0512																							
L2 62+50	0515																	1			1			1
	0515	0516		40																				
L2 62+93	0516																	1			1			1
	0516	0518		28																				
L2 62+50	0517																	1			1			1
	0517	0518		40																				
L2 62+93	0518																	1			1			1
	0518	0608		60																				
L2 56+88	0520													228										
L2 59+80	0521													180										
Y2 12+10	0602																	1			1		1	
	0602	0603		28																				
Y2 12+37	0603																	1			1		1	
	0603	0604		12																				
Y2 12+50	0604																	1			1		1	
	0604	0625		56																				
L2 63+90	0605																	1						
	0605	0606		44																				
L2 63+86	0606																	1			1		1	
	0606	0607																						
Y2 12+77	0610																	1			1			1
	0610	0611																						
Y2 12+78	0611																	1						
SHEET TOTALS				740				224						408	3.400			22			12		7	5

LINE & STATION	STRUCTURE NUMBER FROM	TO	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	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. 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/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	J.B. STD. 840.31 OR STD. 840.32	ANGLED VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	STEEL FRAME WITH TWO GRATES STD. 840.37	TEMP STEEL PLATE COVER MASONRY DRAINAGE	SPRING BOX STD. 840.41	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	15" DRAINAGE PIPE ELBOW	ADJUSTMENT OF MANHOLE	MODIFIED CONC. FLUME	PREFORMED SCOUR HOLE (PER EACH)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
Y1A 11+38	0433																																				
	0433	0430																																			
L1 43+78	0434		1				1	1																													
	0434	0405																																			
Y1B 12+03																																				45	
L2 52+24	0501																																				
L2 53+47	0502		1										1											1													
	0502	0503																																			
L2 53+43	0503									1									1																		
	0503	0504																												2							
L2 53+42	0504																																1				
L2 56+55	0505		1										1											1													
	0505	0506																																			
L2 56+56	0506									1									1																		
	0506	0507																												2							
L2 56+62	0507																																1				
L2 60+00	0508			1																																	
	0508	0509																																			
L2 60+65	0509			1																																	
	0509	0511																																			
L2 60+00	0510									1									1																		
	0510	0511																																			
L2 60+66	0511									1									1																		
	0511	511A																																			
L2 61+80	511A									1									1																		
	511A	0512																												2							
L2 61+80	0512																																1				
L2 62+50	0515			1																																	
	0515	0516																																			
L2 62+93	0516			1																																	
	0516	0518																																			
L2 62+50	0517																																				
	0517	0518																																			
L2 62+93	0518																																				
	0518	0608																																			
L2 56+88	0520																																				
L2 59+80	0521																																				
Y2 12+10	0602																																				
	0602	0603																																			
Y2 12+37	0603																																				
	0603	0604																																			
Y2 12+50	0604																																				
	0604	0625																																			
L2 63+90	0605		1				1	1																													
	0605	0606																																			
L2 63+86	0606																																				
	0606	0607																																			
Y2 12+77	0610																																				
	0610	0611																																			
Y2 12+78	0611									1							1																				
SHEET TOTALS			4	4			2	2		6			2				1		5				2							6			3			45	

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