11/14/23

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, 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 PPP	DO NOT USE PVC	C. S. PIPE 15 .079	18 .079	24 .079	30 .079	36 .079
L 63+98	20 LT	0879		805.7																							
		0879	0877		802.4	801.8																					
L 63+50	19 LT	0880		805.8																							
		0880	0879		802.6	802.4																					
RPD 21+58	4 LT	0884	0885		769.5	763.4																					
Y1 10+98	34 LT	0901							32																		
Y1 13+51	63 LT	0902							48																		
Y1 14+38	61 LT	0903							48																		
Y1 14+57	41 RT	0904							36																		
Y1 16+55	1 RT	0905	0906		859.5	856.6																					
Y1 18+76	46 LT	0907							28																		
Y1 30+26	46 RT	1002		830.6																							
		1002	1015		823.8	822.8																					
Y1 30+26	71 RT	1003		831.9																							
		1003	1002		824.0	823.8				28																	
Y1 31+28	43 RT	1004		831.1																							
		1004	1002		824.5	824.0						104															
Y1 31+73	43 RT	1005		830.7																							
		1005	1004		824.7	824.5						48															
Y1 33+50	45 LT	1007		830.0																							
		1007	1006		826.5	826.0			68																		
Y1 34+14	32 RT	1008		833.0																							
		1008	1005		827.5	825.2					240																
Y1 34+65	45 LT	1009		831.4																							
		1009	1007		827.9	826.5			116																		
Y1 35+28	45 LT	1010		832.3																							
		1010	1009		828.8	827.9			64																		
Y1 36+14	30 RT	1011		837.5																							
		1011	1008		833.1	828.7					200																
Y1 37+61	31 LT	1012		840.9																							
		1012	1016		837.4	835.5			32																		
Y1 38+23	29 RT	1013		840.0																							
		1013	1011		835.7	833.2					208																
Y1 38+55	29 LT	1014		842.3																							
		1014	1012		839.1	837.4			92																		
Y1 30+26	8 LT	1015		831.5																							
		1015	1001		822.8	821.7																					
Y1 37+35	45 LT	1016		839.0																							
		1016	1010		835.5	828.8			208																		
Y2 25+36	85 LT	1101			805.7																						
		1101	1102		805.7	804.5																					
Y2 21+46	0	1103			817.7																						
		1103	1104		817.7	817.4																					
Y2 21+54	0	1104			817.4																						
RPD 13+01	13 LT	1201			770.3																						
		1201	1202		770.3	770.1																					
RPD 13+03	44 LT	1202		775.0																							
		1202	1204		769.6	767.3						328															
Y2 62+02	80 RT	1203		775.2																							
		1203	1204		767.4	767.3																					
Y2 62+04	94 RT	1204		773.8																							
		1204	1205		767.3	767.1						36															
Y2 58+73	80 RT																										
Y1 26+98	32 RT																										
Y1 27+91	35 RT																										
SHEET TOTALS (48" or Less)									772	28	648	516															

LINE & STATION	FROM	TO	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48	18" WELDED STEEL PIPE 0.25" THICK, GRADE B IN SOIL	18" WELDED STEEL PIPE 0.25" THICK, GRADE B NOT IN SOIL	24" WELDED STEEL PIPE 0.375" THICK, GRADE B IN SOIL	24" WELDED STEEL PIPE 0.375" THICK, GRADE B NOT IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B IN SOIL	30" WELDED STEEL PIPE 0.50" THICK, GRADE B NOT IN SOIL	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS 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	
L 63+98	0879																		1							
	0879	0877		116																						
L 63+50	0880																		1							
	0880	0879		44																						
RPD 21+58	0884	0885			204																					
Y1 10+98	0901																									
Y1 13+51	0902																									
Y1 14+38	0903																									
Y1 14+57	0904																									
Y1 16+55	0905	0906						112									2.800									
Y1 18+76	0907																									
Y1 30+26	1002																		1	1.8						
	1002	1015													28	28										
Y1 30+26	1003																		1	2.9						
	1003	1002																								
Y1 31+28	1004																		1	1.6						
	1004	1002																								
Y1 31+73	1005																		1	1.0						
	1005	1004																								
Y1 33+50	1007																		1							
	1007	1006																								
Y1 34+14	1008																		1	0.5						
	1008	1005																								
Y1 34+65	1009																		1							
	1009	1007																								
Y1 35+28	1010																		1							
	1010	1009																								
Y1 36+14	1011																		1							
	1011	1008																								
Y1 37+61	1012																		1							
	1012	1016																								
Y1 38+23	1013																		1							
	1013	1011																								
Y1 38+55	1014																		1							
	1014	1012																								
Y1 30+26	1015																		1	3.7						
	1015	1001													30	30										
Y1 37+35	1016																		1							
	1016	1010																								
Y2 25+36	1101																									
	1101	1102			44																					
Y2 21+46	1103																									
	1103	1104			8																					
Y2 21+54	1104																									
RPD 13+01	1201																									
	1201	1202		32																						
RPD 13+03	1202																		1	0.4						
	1202	1204																								
Y2 62+02	1203																		1	2.8						
	1203	1204			12																					
Y2 62+04	1204																		1	1.5						
	1204	1205																								
Y2 58+73																										
Y1 26+98																										
Y1 27+91																										
SHEET TOTALS (48" or Less)				192	268			112							58	58	3		19	16						

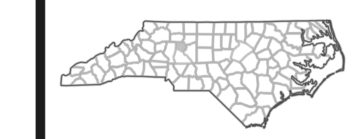
LINE & STATION	FROM	TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06	C.B. STD. 852.05	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR STD. 840.26	G.D.I. TYPE "B" STD. 840.18 OR STD. 840.27	G.D.I. TYPE "D" STD. 840.19 OR STD. 840.28	G.D.I. (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	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	T.B.D.I. FOR STEEL GRATES STD. 840.36	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	30" SIDE DRAIN PIPE ELBOW	SPRING BOX STD. 840.41	BERM DITCH OUTLET STD. 850.10 (SY)	BERM DITCH OUTLET STD. 850.11 (SY)	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 63+98	0879																1			1														
	0879	0877																																
L 63+50	0880																1			1														
	0880	0879																																
RPD 21+58	0884	0885																																
Y1 10+98	0901																																	
Y1 13+51	0902																																	
Y1 14+38	0903																																	
Y1 14+57	0904																																	
Y1 16+55	0905	0906																																
Y1 18+76	0907																																	
Y1 30+26	1002				1	1																												
	1002	1015																																
Y1 30+26	1003																	1					1											
	1003	1002																																
Y1 31+28	1004				1	1																												
	1004	1002																																
Y1 31+73	1005				1	1																												
	1005	1004																																
Y1 33+50	1007				1	1																												
	1007	1006																																
Y1 34+14	1008				1	1																												
	1008	1005																																
Y1 34+65	1009				1	1																												
	1009	1007																																
Y1 35+28	1010				1	1																												
	1010	1009																																
Y1 36+14	1011				1	1																												
	1011	1008																																
Y1 37+61	1012				1	1																												
	1012	1016																																
Y1 38+23	1013				1	1																												
	1013	1011																																
Y1 38+55	1014				1	1																												
	1014	1012																																
Y1 30+26	1015		1		1	1																												
	1015	1001																																
Y1 37+35	1016				1	1																												
	1016	1010																																
Y2 25+36	1101																														0.4465			
	1101	1102																																
Y2 21+46	1103																														0.4465			
	1103	1104																																
Y2 21+54	1104																														0.4465			
RPD 13+01	1201																														0.4000			
	1201	1202																																
RPD 13+03	1202							1					1																					
	1202	1204																																
Y2 62+02	1203																	1					1											
	1203	1204																																
Y2 62+04	1204							1					1																					
	1204	1205																																
Y2 58+73																																	326	18-inches
Y1 26+98																																	91	12-inches
Y1 27+91																																	27	15-inches
SHEET TOTALS (48" or Less)			1		13	13		2					2				2	2		2			2								2		444	

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**

U-6187

FINAL | 3D-5

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DAVIE COUNTY



ROADWAY DESIGN UNIT

PREPARED BY

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