DocuSign Envelope ID: 366BE326-3A7E-4B08-BF79-89D42B5D3E94

USRAL3LT17006

COMPUTED BY:	AECOM	DATE:	07/02/2018
CHECKED BY:	AECOM	DATE:	07/02/2018

PROJECT NO.	SHEET NO.
R-3825B	3D-4

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	TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 15	18	24	30	36	42	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 15 .064	18 .064	24 .064	30 .079	R. C. PIPE CLASS IV 15	18	24	30	36	42	48
L 75+50	57 RT	0912A		173.7																									
		0912A	0913		169.7	167.4		12																					
L 76+35	3 LT	0914		169.9																									
		0914	0915		166.7	165.1																	64						
L 82+00	8 RT	0917		181.7																									
		0917	0922		178.5	174.9																	148						
L 83+53	56 LT	0918		185.0																									
		0918	0919		183.1	182.8		16																					
L 84+08	56 LT	0920		186.0																									
		0920	0924		184.1	183.8	0.4	16																					
L 84+18	56 LT	0921		186.3																									
		0921	0920		184.4	184.1	0.3	8																					
L 80+50	8 RT	0922		178.1																									
		0922	0908		174.9	173.7																	20						
L 86+54	80 RT	0925						28																					
L 87+50	23 LT	0926																											
		0926	0927		190.3	189.5																							
L 87+50	25 RT	0927																											
		0927	0903		189.5	188.6																						52	
L 80+88	70 LT	0928																											
		0928	0907		172.9	169.5																						60	
Y9 15+33	38 LT	1001		225.3																									
		1001	1002		222.3	221.9																	88						
Y9 15+31	50 RT	1002		225.2																									
		1002	1004		221.9	215.6	0.4																164						
Y9 17+02	39 LT	1003		218.9																									
		1003	1004		215.9	215.4																	88						
Y9 16+95	51 RT	1004		218.6																									
		1004	1005		215.4	213.2	0.9																88						
L 92+69	50 LT	1005		216.2																									
		1005	1006		213.0	212.8	0.7																	8					
L 92+59	51 LT	1006		216.1																									
		1006	1007		212.8	203.4	2.8		308																				
L 89+50	56 LT	1007		206.4																									
		1007	0902		202.9	193.6	1.0			200																			
Y9 14+08	39 RT	1008		229.8																									
		1008	1002		226.4	222.2																	124						
Y9 14+10	39 LT	1009		229.8																									
		1009	1008		226.8	226.4																	76						
L 101+50	87 RT	1101		193.5																									
		1101	1103		191.0	185.7	1.0				204																		
L 103+50	78 RT	1102		195.5																									
		1102	1103		194.2	186.9		24						X			X	X											
L 103+50	56 RT	1103		190.9																									
		1103	1105		185.7	173.6	1.3				248																		
L 106+00	80 RT	1104		190.0																									
		1104	1105		188.7	174.9		24						X			X	X											
L 106+00	55 RT	1105		178.9																									
		1105	1106		173.6	165.8	1.4				100																		
L 107+00	78 RT	1106		171.0																									
							SHEET TOTALS	128	308	200	552												860	8				112	

LINE & STATION	FROM	TO	WELDED STEEL PIPE GRADE B 0.5" THICK 15 IN SOIL	18 IN SOIL	24 IN SOIL	30 IN SOIL	36 IN SOIL	42 IN SOIL	48 IN SOIL	15 NOT IN SOIL	18 NOT IN SOIL	24 NOT IN SOIL	30 NOT IN SOIL	36 NOT IN SOIL	42 NOT IN SOIL	48 NOT IN SOIL	15" TEMPORARY PIPE	18" TEMPORARY PIPE	24" TEMPORARY PIPE	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	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 75+50	0912A																						1							
	0912A	0913																												
L 76+35	0914																						1							
	0914	0915																												
L 82+00	0917																						1							
	0917	0922																												
L 83+53	0918																						1							
	0918	0919																												
L 84+08	0920																						1							
	0920	0924																												
L 84+18	0921																						1							
	0921	0920																												
L 80+50	0922																						1							
	0922	0908																												
L 86+54	0925																													
L 87+50	0926																													
	0926	0927						18							18															
L 87+50	0927																													
	0927	0903																												
L 80+88	0928																													
	0928	0907																												
Y9 15+33	1001																						1			1			1	
	1001	1002																												
Y9 15+31	1002																						1			1		1		
	1002	1004																												
Y9 17+02	1003																						1			1			1	
	1003	1004																												
Y9 16+95	1004																						1			1		1		
	1004	1005																												
L 92+69	1005																						1			1		1		
	1005	1006																												
L 92+59	1006																						1			1		1		
	1006	1007																												
L 89+50	1007																						1							
	1007	0902																												
Y9 14+08	1008																						1			1		1		
	1008	1002																												
Y9 14+10	1009																						1			1			1	
	1009	1008																												
L 101+50	1101																													
	1101	1103																												
L 103+50	1102																													
	1102	1103																												
L 103+50	1103																						1	0.3						
	1103	1105																												
L 106+00	1104																													
	1104	1105																												
L 106+00	1105																						1	0.3						
	1105	1106																												
L 107+00	1106																						1	0.3						
SHEET TOTALS								18							18								19	0.9		8		5	3	

LINE & STATION	FROM	TO	CONCRETE TRANSITIONAL SECTION D.I. STD. 852.04 OR STD. 852.06 OR DETAIL SHEET 2C-2	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. (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/ 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	TEMP STEEL PLATE COVER PSH 2C-8	M.H. FRAME AND COVER STD. 840.54	T.B.J.B. SPECIAL DETAIL PSH 2C-6	15" PIPE END SECTION	18" CROSS PIPE END SECTION	ADJUST C.B.	15" DRAINAGE PIPE ELBOW	18" DRAINAGE PIPE ELBOW	24" DRAINAGE PIPE ELBOW	15" C.S. ELBOW	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 75+50	0912A							1				1																			
	0912A	0913																													
L 76+35	0914		1		1	1																									
	0914	0915																													
L 82+00	0917		1									1			1	1															See Detail Sheet 2C-2. Leave boxes low with steel plate and pave, then adjust height for final grade.
	0917	0922																													
L 83+53	0918							1				1																			
	0918	0919																													
L 84+08	0920								1			1																			
	0920	0924																													
L 84+18	0921								1			1																			
	0921	0920																													
L 80+50	0922		1									1			1	1															See Detail Sheet 2C-2. Leave boxes low with steel plate and pave, then adjust height for final grade.
	0922	0908																													
L 86+54	0925																														
L 87+50	0926																												0.7120		Special Detail Collar No. 840D72; See Detail Sheet 2C-10
	0926	0927																													
L 87+50	0927																												0.7120		Special Detail Collar No. 840D72; See Detail Sheet 2C-10
	0927	0903																													
L 80+88	0928																												0.7120		Special Detail Collar No. 840D72; See Detail Sheet 2C-10
	0928	0907																													
Y9 15+33	1001																														
	1001	1002																													
Y9 15+31	1002																														
	1002	1004																													
Y9 17+02	1003																														
	1003	1004																													
Y9 16+95	1004																														
	1004	1005																													
L 92+69	1005																														
	1005	1006																													
L 92+59	1006																														
	1006	1007																													
L 89+50	1007						1				1																				
	1007	0902																													
Y9 14+08	1008																														
	1008	1002																													
Y9 14+10	1009																														
	1009	1008																													
L 101+50	1101																														Open End
	1101	1103																													
L 103+50	1102																									1					
	1102	1103																			1										
L 103+50	1103						1				1																				
	1103	1105																													
L 106+00	1104																									1					
	1104	1105																			1										
L 106+00	1105						1				1																				
	1105	1106																													
L 107+00	1106						1				1																				
SHEET TOTALS			3		1	1	4	2	2		4	6			2	2						2				2			2.1360		

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