RD266193

COMPUTED BY:	L. JAH	DATE:	01/12/2015
CHECKED BY:	A.K. WHITE	DATE:	11/16/2015

PROJECT NO.	SHEET NO.
U-3308	3D-8

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 %	C. S. PIPE 12 (.064)	C. S. PIPE 15 (.064)	C. S. PIPE 18 (.064)	R. C. PIPE CLASS IV 15	R. C. PIPE CLASS IV 18	R. C. PIPE CLASS IV 24	R. C. PIPE CLASS IV 30	R. C. PIPE CLASS IV 36	R. C. PIPE CLASS IV 42	R. C. PIPE CLASS IV 48
LALT 59+83	35	RT	1203		352.8													
			1203	1211		349.7	337.6					316						
Y20 10+87	10	RT	1204		357.9													
			1204	1202		354.5	348.6			32								
Y20 10+67	39	LT	1205		357.9													
			1205	1204		354.7	354.5					56						
Y22 12+80	26	RT	1206		337.4													
			1206	1207		335.2	334.1					16						
Y22 12+65	15	RT	1207		337.3													
			1207	1208		334.1	334.1					28						
Y22 12+65	16	LT	1208		337.3													
			1208	1215		334.1	333.7					84						
LALT 63+25	35	LT	1209		339.8													
			1209	1210		336.7	332.0	0.3				100						
LALT 64+25	35	LT	1210		336.2													
			1210	1301		332.0	331.3	1.0				72						
LALT 63+01	35	RT	1211		340.8													
			1211	1212		337.6	335.7					72						
Y22 14+94	24	RT	1212		338.9													
			1212	1213		335.7	334.2					104						
Y22 16+00	20	RT	1213		337.4													
			1213	2401		334.1	333.1	0.5				188						
Y22 13+50	17	LT	1215		337.7													
			1215	1210		333.7	332.0					44						
LALT 63+04	4	LT	1216		341.3													
			1216	1211		338.2	337.6					40						
LALT 62+20	35	LT	1217		343.8													
			1217	1209		340.7	336.7					104						
LALT 64+99	35	LT	1301		334.4													
			1301	1309		329.5	329.2	0.4								40		
LALT 65+79	49	LT	1302		335.5													
			1302	1303		332.0	329.6								24			
LALT 65+79	28	LT	1303		334.0													
			1303	1309		329.6	329.5								40			
LALT 65+81	20	RT	1304		334.1													
			1304	1306		331.0	330.9					40						
LALT 65+25	20	RT	1305		334.4													
			1305	1306		331.2	331.2					12						
LALT 65+39	20	RT	1306		334.3													
			1306	1307		328.3	327.9	0.4									12	
LALT 65+39	30	RT	1307		334.3													
LALT 65+39	31	LT	1309		334.1													
			1309	1306		328.5	328.3	0.4									48	
Y 13+89	21	LT	1501		415.7													
			1501	1502		412.2	407.6	0.5		36								
Y 14+50	22	LT	1505		415.5													
			1505	1501		412.3	412.2					60						
Y 24+11	18	RT	1602		407.6													
			1602	1603		404.4	402.7	0.4				32						
Y 24+17	17	LT	1603		408.5													
SHEET TOTALS										68		1368			64	40	60	

Other column headings (no entries on this sheet): SIZE; THICKNESS OR GAUGE; Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC) 15, 18 – DO NOT USE RCP, DO NOT USE CSP, DO NOT USE CAAP, DO NOT USE HDPE, DO NOT USE PVC; R. C. PIPE CLASS V 12, 15, 18, 24, 30, 48; BIT COAT CORRUGATED METAL PIPE 36; ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY; REINFORCED ENDWALLS CY; DRAINAGE STRUCTURE MASONRY CY; OPEN THROAT C.B. STD. 840.04 OR STD. 840.05; T.B.D.I. 840.36; T.B.D.I. FRAME AND GRATE 840.37; DRIVEWAY D.I. STD. 840.30; FRAME W/ GRATE FOR DRIVEWAY STD. 840.30; T.B.J.B. STD. 840.34; CONVERT EXISTING C.B. TO J.B.; CONVERT EXISTING D.I. TO J.B.; CS PIPE ELBOWS NO. & SIZE; FLOWABLE FILL CY; CONCRETE COLLARS CL. "B" STD. 840.72 CY; CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY; PIPE REMOVAL LIN. FT.

QUANTITIES FOR DRAINAGE STRUCTURES — NOTE: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)

STRUCTURE	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	CONCRETE TRANSITIONAL SECTION – D.I. STD. 852.04 OR STD. 852.06	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND GRATES STD. 840.16	J.B. STD. 840.31 OR STD. 840.32	M.H. FRAME AND COVER STD. 840.54	REMARKS
1203	1			1		1							
1204	1			1		1							
1205	1			1			1						
1206	1								1	1			
1207	1			1	1								
1208	1			1	1								
1209	1			1			1						
1210	1			1			1						
1211	1			1		1							
1212	1			1		1							
1213	1			1	1								
1215	1			1			1						
1216	1							1	1	1			
1217	1			1			1						
1301	1			1			1						
1302	1								1	1			
1303	1			1	1								
1304	1			1	1								
1305	1			1		1							
1306	1	1.0		1		1							
1307	1	2.3									1	1	
1309	1	0.6		1			1						
1501	1			1		1							
1501–1502													TIES TO TRACK WORK
1505	1			1		1							
1602	1			1		1							
1603	1	0.8		1			1						
SHEET TOTALS	26	4.7		22	5	9	8	1	3	3	1	1	

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