PC0MWKCC

COMPUTED BY:	SB	DATE:	05/20/2021
CHECKED BY:	DM	DATE:	05/20/21

PROJECT NO.	SHEET NO.
R-5737	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 %
			0705	0706		715.4	715.3	
L 67+11	4	LT	0706		720.2			
			0706	0707		715.3	710.8	
L 68+50	4	LT	0707		715.0			
			0707	0708		710.5	710.5	0.4
L 68+50	4	RT	0708		715.3			
			0708	0709		710.5	708.2	0.4
L 68+48	45	RT	0709		714.2			
			0709	0710		708.2	707.6	0.6
RPD 16+26	15	RT	0710		711.5			
			0710	0711		707.6	704.0	0.8
L 68+50	114	RT	0711		708.2			
			0711	0712		703.5	702.7	
L 69+50	102	RT	0712		706.2			
			0712	0713		702.7	692.0	1.3
L 67+49	50	LT	0714		721.3			
			0714	0704		718.3	715.4	
L 73+50	4	LT	0716		696.4			
			0716	0717		692.2	691.0	
L 73+50	4	RT	0717		696.4			
			0717	0718		691.0	689.4	
RPD 11+24	23	LT	0718		694.4			
			0718	0721		689.4	671.8	1.1
Y3 28+99	12	RT	0722		737.1			
			0722	0765		723.7	723.6	
Y1 23+91	20	LT	0724		732.7			
			0724	0778		728.7	728.6	
Y3 31+94	16	RT	0725		730.8			
			0725	0784		725.2	724.8	
Y3 32+99	29	RT	0726		730.2			
			0726	0795		725.8	725.7	
Y3 32+93	28	LT	0727		730.6			
			0727	0795		726.1	725.7	
Y1 22+76	27	LT	0729		730.4			
			0729	0779		726.4	724.5	
L 60+52	177	LT	0730		737.5			
			0730	0736		734.5	714.4	
Y2 10+75	23	LT	0731		731.2			
			0731	0732		723.8	723.2	
Y2 10+66	29	RT	0732		730.9			
			0732	0733		723.2	722.9	0.3
Y1 21+08	19	RT	0733		728.4			
			0733	0788		722.9	717.4	0.3
L 59+72	100	LT	0734		719.7			
			0734	0735		713.0	712.8	
L 59+73	62	LT	0735		720.5			
			0735	0737		712.8	712.5	0.4
C2 13+30	20	RT	0736		718.6			
			0736	0737		713.9	712.5	0.4
C2 14+04	20	RT	0737		718.8			

FROM	TO	Side Drain Pipe (RCP, CSP, CAAP, HDPE, or PVC) 12	15	18	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	C. S. PIPE 12 .064	15 .064	18 .064	24 .064		30 .079			36 .079			42 .109	48 .109	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	42
0705	0706																																40			
0706	0707																																136			
0707	0708																																8			
0708	0709																																40			
0709	0710																																12			
0710	0711																																56			
0711	0712																																	96		
0712	0713												140																							
0714	0704																															40				
0716	0717																																12			
0717	0718																																52			
0718	0721											56																								
0722	0765																															24				
0724	0778																															40				
0725	0784																															68				
0726	0795																															12				
0727	0795																															48				
0729	0779																																60			
0730	0736											64																								
0731	0732																																52			
0732	0733																																88			
0733	0788																																160			
0734	0735																															44				
0735	0737																															60				
0736	0737																															84				
SHEET TOTALS												120	140																			420	716	96		
PROJECT TOTALS			132	256							16	480	140		84									1080	136	28						3736	2436	544	256	184

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

LINE & STATION	FROM	DRAINAGE STRUCTURE MASONRY CY	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	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	GDI TYPE "A" STD. 840.17 OR STD. 840.26	GDI TYPE "B" STD. 840.18 OR STD. 840.27	GDI TYPE "D" STD. 840.19 OR STD. 840.28	GDI (WS FLAT) FRAME W/ GRATE STD. 840.20	GDI (WS FLAT) FRAME W/ 2 GRATES STD. 840.20	GDI (WS SAG) FRAME W/ GRATE STD. 840.22	GDI (WS SAG) FRAME W/ 2 GRATES STD. 840.22	GDI (NS SAG) FRAME W/ GRATE STD. 840.24	GDI (NS SAG) FRAME W/ 2 GRATES STD. 840.24	GDI (NS FLAT) FRAME W/ GRATE STD. 840.29	GDI (NS FLAT) FRAME W/ 2 GRATES STD. 840.29
L 67+11	0706		1																								
L 68+50	0707		1																								
L 68+50	0708		1																								
L 68+48	0709		1																								
RPD 16+26	0710		1															1			1						
L 68+50	0711		1														1								1		
L 69+50	0712		1														1								1		
L 67+49	0714		1															1					1				
L 73+50	0716		1																								
	0716 (to 0717)		1																								
L 73+50	0717																										
RPD 11+24	0718		1	1.8														1			1						
Y3 28+99	0722		1	5.0	3.3	1		1																			
Y1 23+91	0724		1			1		1																			
Y3 31+94	0725		1	0.6		1		1																			
Y3 32+99	0726		1			1	1																				
Y3 32+93	0727		1			1	1																				
Y1 22+76	0729		1			1		1																			
L 60+52	0730		1												1	1											
Y2 10+75	0731		1	2.4		1	1																				
Y2 10+66	0732		1	2.7		1			1																		
Y1 21+08	0733		1	0.5		1			1																		
L 59+72	0734		1	1.8														1			1						
L 59+73	0735		1	2.7														1			1						
C2 13+30	0736		1			1			1																		
C2 14+04	0737		1	1.8		1		1																			
SHEET TOTALS			25	19.3	3.3	11	3	5	3						1	1	2	5			4		1		2		
PROJECT TOTALS			144	200.9		45	10	21	16						3	3	4	45	3	1	34		16		2		

LINE & STATION	FROM	DRIVEWAY D.I. STD. 840.30	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	STEEL FRAME WITH TWO GRATES STD. 840.37	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING C.B. TO D.I.	CONVERT EXISTING D.I. TO J.B.	CONVERT EXISTING J.B. TO D.I.	ADJUST C.B.	ADJUST D.I.	ENERGY DISSIPATION BASIN	CONCRETE ENDWALL STD. 838.01 CY	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE & BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
L 67+11	0706					1	1															
L 68+50	0707					1	1															
L 68+50	0708					1	1															
L 68+48	0709					1	1															
L 73+50	0716					1	1															
L 73+50	0717					1	1															
C2 14+04	0737													1								ADJUST GRATE AFTER DETOUR IS REMOVED
SHEET TOTALS						6	6							1								
PROJECT TOTALS			4	3	1	37	37		5			3		1	1	1	14	33	1.8446	0.798	1979	

ABBREVIATIONS

C.A.A.	CORRUGATED ALUMINIUM ALLOY
C.B.	CATCH BASIN
C.S.	CORRUGATED STEEL
D.I.	DROP INLET
GDI	GRATED DROP INLET
H.D.P.E.	HIGH DENSITY POLYETHYLENE
J.B.	JUNCTION BOX
M.H.	MANHOLE
NS	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
WS	WIDE SLOT