2MQ6010FQ2

COMPUTED BY: CGM DATE: 08/11/2026

CHECKED BY: JJM DATE: 08/11/2026

PROJECT NO.	SHEET NO.
U-3422B	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	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE) 12	15	18	24	30	36	42	48	DO NOT USE PP PIPE	C. S. PIPE 12 .064	15 .064	18 .064	R. C. PIPE CLASS III 12	15	18	24	30	36	42	48	R. C. PIPE CLASS IV 12	15	18	24	30	36	42	48
		1228	1215		169.0	165.9																	72												
L 128+28	61 LT	1229		175.5																															
		1229	1202		170.1	169.5																				76									
Y5 12+50	65 LT	1230		172.7																															
		1230	1214		166.0	165.6																			116										
L 137+70	69 LT	1231		171.9																															
		1231	1218		168.4	168.3																32													
L 136+50	70 LT	1232		172.3																															
		1232	1217		170.0	169.6																							20						
L 130+20	76 LT	1233		174.2																															
		1233	1235		172.0	171.9																							16						
L 131+78	67 LT	1234		174.7																															
		1234	1210		172.5	172.4																							20						
L 130+20	61 LT	1235		174.9																															
		1235	1206		168.7	168.5																					76								
D2 11+15	0 CL	1236			170.0	169.7																								72					
L 143+60	37 LT	1301		172.9																															
		1301	1305		161.8	161.0																					244								
L 143+60	6 LT	1302		173.9																															
		1302	1301		169.7	169.6																							28						
L 143+60	37 RT	1303		172.9																															
		1303	1302		169.9	169.7																							40						
L 146+08	37 RT	1304		172.9																															
		1304	1307		169.9	169.3																							192						
L 146+03	55 LT	1305		173.0																															
		1305	1309		161.0	160.3																					196								
L 146+08	6 RT	1306		173.9																															
		1306	1304		170.7	169.9																							28						
L 148+00	37 RT	1307		172.3																															
		1307	1319		169.3	169.1																							84						
L 154+87	305 RT	1308		172.8																															
		1308	1325		160.9	160.6																					84								
L 148+00	37 LT	1309		172.3																															
		1309	1310		160.4	160.1																					112								
L 149+15	37 LT	1310		172.0																															
		1310	1314		160.1	159.7																					132								
L 149+75	37 RT	1311		171.8																															
		1311	1312		168.8	168.6																							72						
L 150+47	37 RT	1312		171.7																															
		1312	1313		168.3	168.2																								28					
L 150+47	6 RT	1313		172.7																															
		1313	1314		168.2	168.1																								40					
L 150+47	37 LT	1314		171.7																															
		1314	1320		159.7	159.5																					76								
L 152+25	37 LT	1315		172.3																															
		1315	1318		159.2	158.1																					344								
L 153+23	37 RT	1316		172.6																															
		1316	1312		169.6	168.6																							276						
L 155+70	37 LT	1318		172.4																															
		1318	1317		158.1	157.9																					72								
SHEET TOTALS																						32	72		116	76	1336		776	140					

STRUCTURE NUMBER FROM	TO	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	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 W/ GRATE STD. 840.20	G.D.I. (W.S. FLAT) FR. W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FR. W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ GRATE STD. 840.24	G.D.I. (N.S. SAG) FR. W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FR. W/ 2 GRATES STD. 840.29	DRIVEWAY D.I. STD. 840.30	FRAME W/ GRATE FOR DRIVEWAY STD. 840.30	J.B. STD. 840.31 OR STD. 840.32	ANG. VANE GRATES AND FRAMES STD. 840.33	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	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 M.H.	FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONC. AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
1228	1215																																													
1229					1	0.4		1			1																																			
1229	1202																																													
1230					1	1.7		1			1																																			
1230	1214																																													
1231					1											1	1																													
1231	1218																																													
1232					1											1	1																													
1232	1217																																													
1233					1											1	1																													
1233	1235																																													
1234					1											1	1																													
1234	1210																																													
1235					1	1.2		1		1																																				
1235	1206																																													
1236																																														
1301					1	5.0	0.1	1	1																																					
1301	1305																																													
1302					1							1				1	1																												106	Pipe Removal for all of Shet 13
1302	1301																																													
1303					1			1	1																																					
1303	1302																																													
1304					1			1		1																																				
1304	1307																																													
1305					1	5.0	2.0	1	1																																					
1305	1309																																													
1306					1							1				1	1																													
1306	1304																																													
1307					1			1		1																																				
1307	1319																																													
1308					1	5.0	1.9																									1				1											
1308	1325																																													
1309					1	5.0	1.9	1			1																																			
1309	1310																																													
1310					1	5.0	1.9	1			1																																			
1310	1314																																													
1311					1			1		1																																				
1311	1312																																													
1312					1			1	1																																					
1312	1313																																													
1313					1							1				1	1																													
1313	1314																																													
1314					1	5.0	2.0	1	1																																					
1314	1320																																													
1315					1	5.0	3.1	1		1																																				
1315	1318																																													
1316					1			1		1																																				
1316	1312																																													
1318					1	4.0	4.3																																							
1318	1317																																													
SHEET TOTALS					24	42.3	17.2	15	5	6	4	3				7	7															1				1										106	

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