2MQ6010FQ2

COMPUTED BY:	CGM	DATE:	08/11/2026
CHECKED BY:	JJM	DATE:	08/11/2026

PROJECT NO.	SHEET NO.
U-3422B	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)

Size / Thickness or Gauge: C. S. Pipe 12, 15, 18 = .064

LINE & STATION	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	SD 15	SD 18	SD 24	SD 30	SD 36	SD 42	SD 48	DO NOT USE PP PIPE	C. S. PIPE 12 (.064)	C. S. PIPE 15 (.064)	C. S. PIPE 18 (.064)
		1111	1110		173.9	173.7													
Y3 39+21	51 RT	1112		178.6															
		1112	1111		175.6	175.1													
Y3 39+41	7 LT	1113		182.6															
		1113	1124		173.6	173.3													
L 123+79	48 RT	1114		182.6															
		1114	1123		176.1	175.9													
Y4 14+83	5 LT	1115		181.8															
		1115	1121		177.6	177.5													
Y4 14+30	34 RT	1116		181.4															
		1116	1122		178.4	177.8													
Y4 14+70	33 LT	1117		181.1															
		1117	1121		178.1	177.6													
D1 12+04	14 LT	1118		181.5															
		1118	1119		178.1	177.7													
D1 13+34	14 LT	1119		179.4															
		1119	1211		176.4	175.4													
Y4 14+43	40 LT	1120		181.7															
		1120	1135		179.4	178.3													
Y4 14+84	37 LT	1121		181.0															
		1121	1127		177.3	177.2													
Y4 14+83	34 RT	1122		180.7															
		1122	1115		177.8	177.6													
L 123+79	5 LT	1123		184.4															
		1123	1105		175.9	175.8													
Y3 40+35	6 LT	1124		181.5															
		1124	1108		172.8	171.6													
L 128+00	7 RT	1125		177.6															
		1125	1201		174.4	173.7													
Y3 38+25	7 LT	1126		180.6															
		1126	1110		177.5	175.0													
Y4 15+11	50 LT	1127		180.8															
		1127	1114		177.2	177.0													
L 116+55	51 RT	1128		184.8															
		1128	1102		182.6	181.6													
L 118+00	53 RT	1129		184.7															
		1129	1103		182.4	181.8													
L 123+74	57 LT	1132		182.9															
		1132	1105		180.4	179.9													
Y3 37+70	51 RT	1133		178.9															
		1133	1111		175.1	174.4													
Y3 39+41	51 RT	1134		179.0															
		1134	1112		175.9	175.6													
Y4 14+45	28 LT	1135		181.3															
		1135	1117		178.2	178.1													
L 128+72	7 RT	1201		176.9															
		1201	1204		173.7	173.0													
L 129+06	61 LT	1202		174.8															
		1202	1203		169.0	168.9													
L 129+48	61 LT	1203		174.7															
SHEET TOTALS																			

FROM	TO	R. C. PIPE CLASS III 12	III 15	III 18	III 24	III 30	III 36	III 42	III 48	R. C. PIPE CLASS IV 12	IV 15	IV 18	IV 24	IV 30	IV 36	IV 42	IV 48
1111	1110													56			
1112																	
1112	1111										24						
1113																	
1113	1124					96											
1114																	
1114	1123					52											
1115																	
1115	1121										32						
1116																	
1116	1122										52						
1117																	
1117	1121										12						
1118																	
1118	1119										128						
1119																	
1119	1211										120						
1120																	
1120	1135										12						
1121																	
1121	1127											28					
1122																	
1122	1115										36						
1123																	
1123	1105					40											
1124																	
1124	1108						228										
1125																	
1125	1201										72						
1126																	
1126	1110										68						
1127																	
1127	1114											48					
1128																	
1128	1102										16						
1129																	
1129	1103										16						
1132																	
1132	1105											12					
1133																	
1133	1111												104				
1134																	
1134	1112										16						
1135																	
1135	1117										24						
1201																	
1201	1204										32						
1202																	
1202	1203								40								
1203																	
SHEET TOTALS						188	228		40		660	88	104	56			

Quantities for drainage structures note: TOTAL LIN. FT. FOR PAY QUANTITY SHALL BE A + (1.3 X B)

FROM	TO	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS CY	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
1111	1110																
1112					1			1			1						
1112	1111																
1113					1	4.0						1					
1113	1124																
1114					1	1.5		1		1							
1114	1123																
1115					1							1				1	1
1115	1121																
1116					1			1		1							
1116	1122																
1117					1			1			1						
1117	1121																
1118					1			1		1							
1118	1119																
1119					1			1		1							
1119	1211																
1120					1											1	1
1120	1135																
1121					1			1	1								
1121	1127																
1122					1			1	1								
1122	1115																
1123					1	3.5						1				1	1
1123	1105																
1124					1	3.7											
1124	1108																
1125					1							1				1	1
1125	1201																
1126					1							1				1	1
1126	1110																
1127					1			1		1							
1127	1114																
1128					1											1	1
1128	1102																
1129					1											1	1
1129	1103																
1132					1											1	1
1132	1105																
1133					1			1		1							
1133	1111																
1134					1			1			1						
1134	1112																
1135					1			1			1						
1135	1117																
1201					1							1				1	1
1201	1204																
1202					1	0.8		1	1								
1202	1203																
1203					1	0.8		1		1							
SHEET TOTALS					25	14.3		14	3	7	4	6				9	9

FROM	TO	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
1111	1110																													
1112																														
1112	1111																													
1113												1						1												
1113	1124																													
1114																														
1114	1123																													
1115																														
1115	1121																													
1116																														
1116	1122																													
1117																														
1117	1121																													
1118																														
1118	1119																													
1119																														
1119	1211																													
1120																														
1120	1135																													
1121																														
1121	1127																													
1122																														
1122	1115																													
1123																														
1123	1105																													
1124																	1		1											
1124	1108																													
1125																														
1125	1201																													
1126																														
1126	1110																													
1127																														
1127	1114																													
1128																														
1128	1102																													
1129																														
1129	1103																													
1132																														
1132	1105																													
1133																														
1133	1111																													
1134																														
1134	1112																													
1135																														
1135	1117																													
1201																													175	Pipe Removal for all of Sheet 12
1201	1204																													
1202																														
1202	1203																													
1203																														
SHEET TOTALS												1					1	1	1										175	

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