Z1485

COMPUTED BY:	VHB	DATE:	3/20/2023
CHECKED BY:	VHB	DATE:	3/20/2023

PROJECT NO.	SHEET NO.
U-6229	3D-1

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 %
L 20+81	13	RT	0401		237.3			
			0401	0402		234.0	233.6	
L 21+73	13	RT	0402		236.9			
			0402	0404		233.6	233.5	
L 21+86	3	RT	0403		236.1			
			0403	0404		232.1	232.1	0.3
L 21+86	12	RT	0404		236.7			
L 23+58	0	CL	0405		235.3			
			0405	0407		232.1	231.1	
L 23+58	12	RT	0406		235.4			
			0406	0405		232.2	232.1	
L 25+48	0	CL	0407		234.4			
			0407	0408		231.1	230.6	
L 27+02	13	LT	0408		233.9			
			0408	0412		230.6	230.2	
			EX0407	0410		229.7	229.5	
L 27+82	2	RT	0410		233.3			
			0410	0412		228.9	228.6	1.5
L 20+36	2	LT	0411		237.0			
			0411	0401		234.3	234.0	
L 27+77	15	LT	0412		233.4			
			0412	0409		228.6	228.0	1.9
L 28+32	15	LT	0501		233.3			
			0501	0502		230.1	229.9	
L 28+32	1	RT	0502		233.1			
			0502	0410		229.9	229.7	
L 29+20	15	LT	0503		233.1			
			0503	0504		229.9	229.6	
L 30+00	15	LT	0504		232.8			
			0504	0506		229.5	229.3	
L 30+00	1	LT	0505		232.8			
			0505	0504		229.6	229.5	
L 30+73	15	LT	0506		232.7			
			0506	0507		229.3	229.1	
L 31+46	15	LT	0507		232.6			
			0507	0509		229.0	228.8	
L 31+46	3	LT	0508		232.3			
			0508	0507		229.0	229.0	
L 31+93	14	LT	0509		232.6			
			0509	0510		228.8	228.7	
L 32+41	2	LT	0510		232.2			
			0510	0511		228.6	228.5	
L 32+58	0	CL	0511		232.7			
L 32+57	13	RT	0512		232.5			
L 40+75	2	LT	0513		231.5			
			0513	0601		228.2	227.8	
L 35+99	1	RT	0514		231.1			
L 42+23	3	LT	0601		231.1			
			0601	0602		227.8	227.5	
L 43+11	5	LT	0602		230.9			

FROM	TO	Side Drain Pipe (RCP, CSP, CAAP, HDPE, PVC, or PP PIPE)														R. C. PIPE CLASS III								R. C. PIPE CLASS IV							
		12	15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	DO NOT USE PVC	DO NOT USE PP PIPE	12	15	18	24	30	36	42	48	12	15	18	24	30	36	42	48
0401	0402																								88						
0402	0404																								12						
0403	0404																8														
0405	0407																								188						
0406	0405																12														
0407	0408																								152						
0408	0412																								72						
EX0407	0410																								48						
0410	0412																	16													
0411	0401																44														
0412	0409																									36					
0501	0502																12														
0502	0410																								48						
0503	0504																								84						
0504	0506																								72						
0505	0504																12														
0506	0507																								72						
0507	0509																								44						
0508	0507																8														
0509	0510																								48						
0510	0511																16														
0513	0601																								144						
0601	0602																								88						
SHEET TOTALS																	112	16							1160	36					

STRUCTURE FROM	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 2.G.I. STD. 852D06	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 WITH GRATE STD. 840.20	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	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/ GRATE STD. 840.29	G.D.I. (N.S. FLAT) FRAME 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	ANGLED VANE GRATES AND FRAMES STD. 840.33	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	TEMP STEEL PLATE COVER MASONRY DRAINAGE	SPRING BOX STD. 840.41	M.H. STD. 840.51, STD. 840.52, OR STD. 840.53	M.H. FRAME AND COVER STD. 840.54	BERM DITCH OUTLET STD. 850.10 (PER EACH)	BERM DITCH OUTLET STD. 850.11 (PER EACH)	MODIFIED CONC. FLUME	PREFORMED SCOUR HOLE (PER EACH)	ENERGY DISSIPATION BASIN		FLOWABLE FILL CY	CONCRETE COLLARS CL. "B" STD. 840.72 CY	CONCRETE AND BRICK PIPE PLUG STD. 840.71 CY	PIPE REMOVAL LIN. FT.	REMARKS
0401				1								1																1						1																	See Special Detail 852D06
0402				1								1																1						1																	See Special Detail 852D06
0403				1																								1						1																	
0404				1																								1						1																	
0405				1																								1						1																	
0406				1																								1						1																	
0407				1																								1						1																	
0408				1																								1						1																	
0410				1																								1						1																	
0411				1															1							1																									
0412				1																								1						1																	
0501				1																								1						1																	
0502				1																								1						1																	
0503				1																								1						1																	
0504				1																								1						1																	
0505				1																								1						1																	
0506				1																								1						1																	
0507				1																								1						1																	
0508				1																								1						1																	
0509				1								1																1						1																	See Special Detail 852D06
0510				1								1														1								1																	See Special Detail 852D06
0511				1																											1									1											
0512				1								1																1						1																	See Special Detail 852D06
0513				1																								1						1																	
0514				1															1							1																									
0601				1																								1						1																	
0602				1																								1						1																	
SHEET TOTALS				27								5							2							3		23			1			24						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