COMPUTED BY: BTV DATE: 6-19-2015

CHECKED BY: VWB DATE: 6-19-2015

RD-299051

PROJECT NO.	SHEET NO.
I-5000	3D-5

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, or PVC) 12	15	18	24	30	36	42	48	DO NOT USE RCP	DO NOT USE CSP	DO NOT USE CAAP	DO NOT USE HDPE	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	36	42	48
Y3 20+50	28 LT	0805		719.8																																							
		0805	0800		717.0	715.9																							56														
Y2 23+00	41 LT	0900			708.2	699.1	0.7																						112														
Y2 27+97	357 RT	0903	0904		687.3	687.2	0.4																							24													
Y2 24+17	28 LT	0902			714.3	713.0			32																																		
Y2 25+29	316 RT	0906	0907		686.2	686.1																															28						
Y2 19+86	337 RT	0908	0909		684.6	684.3	0.6																							36													
Y1 37+29	54 LT																																										
Y2 23+00	61 LT																																										
Y1 24+11	70 RT																																										
Y1 24+24	59 RT																																										
RPD 33+64	48 LT																																										
RPD 33+09	10 RT																																										
Y1 25+11	50 RT																																										
Y1 26+65	47 RT																																										
RPD 24+65	5 RT																																										
TRAIL 18+07	34 RT																																										
RPD 33+90	67 RT																																										
Y1 26+79	54 LT																																										
RPD 23+12	110 RT																																										
Y1 39+94	54 LT																																										
Y1 37+47	413 RT																																										
SHEET TOTALS									32																				168	60							28						
PROJECT TOTALS									332				92								500	112	100						356	188	604		432			4	2196	426	160	32			

LINE & STATION	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	REINFORCED ENDWALLS 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	D.I. STD. 852.04 OR STD. 852.06	CONCRETE TRANSITIONAL SECTION 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/ 2 GRATES STD. 840.20	G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22	G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24	G.D.I. (N.S. FLAT) FRAME W/ 2 GRATES STD. 840.29	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.	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	36" SIDE DRAIN PIPE ELBOW	PREFORMED SCOUR HOLE (PER EACH)	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
Y3 20+50			1														1			1																									
Y2 23+00																																													
Y2 27+97																																													
Y2 24+17																																													
Y2 25+29																																													
Y2 19+86																																													
Y1 37+29																																												81	
Y2 23+00																																												41	
Y1 24+11																																												5	
Y1 24+24																																												23	
RPD 33+64																																												127	
RPD 33+09																																												45	
Y1 25+11																																												151	
Y1 26+65																																												151	
RPD 24+65																																												44	
TRAIL 18+07																																												32	
RPD 33+90																																												21	
Y1 26+79																																												154	
RPD 23+12																																												21	
Y1 39+94																																												64	
Y1 37+47																																									3				
SHEET TOTALS			1														1			1																					3			960	
PROJECT TOTALS			84	89.0		25	4	8	13	8		7		10	14		27	1	24	7	2		5	2	5		12	2	11	4	3			4	1	18	4	4	2	3	3	2.5378		960	

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