RAL-2UA2440BPJ

COMPUTED BY: CGM DATE: 3/06/14

CHECKED BY: JRR DATE:

PROJECT NO.	SHEET NO.
U-2579B	3D-21

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 (STATEWIDE TIER) (RCP, CSP, CAAP, HDPE, or PVC) 15	18	24	30	36	42	48	DO NOT USE RCP	C. S. PIPE (SE: SHOP ELONGATED) 15 .064	18 .064	24 .064	30 .064	36 .079	42 .109
-Y5DET- 24+49	LT	0448			928.7	926.0												88			
-Y5DET- 28+76	CL	0449			922.3	922.0											80				
-Y5DET- 31+58	RT	0450							16												
-Y4CD- 72+25	RT	0455		865.7	863.0																
		0455	0456		863.0	862.0		52													
-Y4CD- 72+80	RT	0456		864.7	962.0																
		0456	OUT		962.0	843.5		56							X						
-Y4RPBD- 83+10	RT	0458		860.8	858.0																
		0458	OUT		858.0	855.6		40													
-Y4RPBD- 75+10	RT	0460		885.7	882.9																
		0460	OUT		882.9	887.5		56							X						
-Y4RPBD 72+40	RT	0461		95.2	892.4																
		0461	OUT		892.4	887.0		56							X						
-Y4RPD- 29+50	RT	0462		933.3	930.5																
		0462	OUT		930.5	922.4		48							X						
-Y4RPC- 30+40	LT	0463	OUT						20												
-Y4RPC- 33+00	LT	0464		884.6	881.8																
		0464	OUT		881.8	871.2		64							X						
-Y4RPC- 34+40	LT	0465		882.7	879.9																
		0465	OUT		879.9	879.7		44													
-Y4RPC- 33+20	LT	0466	OUT						24												
-Y4- 117+80	LT	0467	OUT							24											
-Y4- 118+40	LT	0468	OUT							28											
-Y4- 125+90	LT	0469		901.4	900.0																
		0469	0470		900.0	879.8			68						X						
-Y4- 125+90	LT	0470		882.8	879.8																
		0470	EX		879.8	875.5			52												
-Y4- 126+00	RT	0471		882.4	879.6																
		0471	EX		879.6	875.8		120													
-Y4- 135+13	LT	0472		850.9	848.1																
		0472	OUT		848.1	845.0		44													
						SHEET TOTALS		580	180	52							80	88			

R. C. PIPE CLASS III 15	18	24	30	36	42	48	R. C. PIPE CLASS IV 15	18	24	30	42	48	R. C. PIPE CLASS V 24	30	36	8" DIP (DUCTILE IRON PIPE)	42" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	48" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	36" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	18" R.C. PIPE CULVERTS, CONTRACTOR DESIGN	30" WELDED STEEL PIPE, 0.500, TRENCLESS INSTALLATION	36" WELDED STEEL PIPE, 0.500, TRENCLESS INSTALLATION	42" WELDED STEEL PIPE, 0.625, TRENCLESS INSTALLATION	48" WELDED STEEL PIPE, 0.625, TRENCLESS INSTALLATION	ENDWALLS STD. 838.01 OR STD. 838.11 OR 838.80 (UNLESS NOTED OTHERWISE) CY

STRUCTURE NUMBER FROM	TO	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	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. (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/ 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.D.I. STD. 840.36	STEEL GRATE AND FRAME STD. 840.37	SPRING BOX STD. 840.41	M.H. FRAME AND COVER STD. 840.54	CONVERT EXISTING C.B. TO J.B.	CONVERT EXISTING O.T.C.B. TO 2GI	15" SIDE DRAIN PIPE ELBOW	18" SIDE DRAIN PIPE ELBOW	24" SIDE DRAIN PIPE ELBOW	30" SIDE DRAIN PIPE ELBOW	36" SIDE DRAIN PIPE ELBOW	15" C.S. PIPE ELBOW	18" C.S. PIPE ELBOW	24" C.S. PIPE ELBOW	42" C.S. PIPE ELBOW	BERM DITCH OUTLET STD. 850.10	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
0450																																										0.4500			
0455		1													1			1																											
0456		1													1			1																											
0456	OUT																											2																	
0458		1													1			1																											
0460		1													1			1																											
0461		1													1			1																											
0462		1													1			1																											
0462	OUT																											2																	
0464		1													1	1																													
0464	OUT																											2																	
0465		1													1			1																											
0469																																				1									BERM DITCH OUTLET
0469	0470																												1																
0470		1													1			1																											
0470	EX																																												TIE TO EX. 2GI ON U2579G
0471		1													1			1																											
0471	EX																																												TIE TO EX. 2GI ON U2579G
0472		1													1	1																													
SHEET TOTALS		11													11	2		9										6	1								1					0.4500			

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