CARYLSBROOKHA3

COMPUTED BY:	William M. Hines	**DATE:**	2/15/16
CHECKED BY:	Susan Lancaster	**DATE:**	01/18/17

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
U-3109A	3D-15

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)

Column headings: LINE & STATION / SIZE / THICKNESS OR GAUGE; OFFSET; STRUCTURE NUMBER (FROM, TO); TOP ELEVATION (FT.); INVERT ELEVATION (FT.); INVERT ELEVATION (FT.); MINIMUM REQUIRED SLOPE (%); Drainage Pipe (RCP, CSP, CAAP, HDPE, or PVC): 15, 18, 24, 30, 36, 42, DO NOT USE RCP, DO NOT USE CSP, DO NOT USE CAAP, DO NOT USE HDPE, DO NOT USE PVC; C. S. PIPE: 12, 15, 18, 24 (.064, .064, .064, .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; R. C. PIPE CLASS V: 12, 15, 18, 30; 15" SIDE DRAIN PIPE; 18" SIDE DRAIN PIPE; ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) (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; 4" CONCRETE PAVED DITCH, S.Y. STD 850.01; 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/ 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; J.B. STD. 840.31 OR STD. 840.32; T.B.J.B. STD. 840.34; M.H. FRAME AND COVER STD. 840.54; 15" C.S. ELBOW; 18" C.S. ELBOW; 24" C.S. ELBOW; 30" C.S. ELBOW; BERM DITCH OUTLET STD. 850.10 (PER EACH); BERM DITCH OUTLET STD. 850.11 (PER EACH); 15" SLUICE GATE; 18" SLUICE GATE; 30" SLUICE GATE; PIPE CLEAN-OUT (PER EACH); PREFORMED SCOUR HOLE (PER EACH); ENERGY DISSIPATOR 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.

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

LINE & STATION	OFFSET		PIPE REMOVAL (LIN. FT.)	REMARKS
L 88+20	78	LT	122	Remove Exist. 18" RCP
L 88+90	95	LT	256	
L 112+00	93	RT	27	
L 147+74	137	LT	28	Remove Exist. 12" RCP
L 148+35	145	RT	60	Remove Exist. 12" RCP
L 149+10	153	LT	20	Remove Exist. 12" RCP
L 149+32	195	LT	34	Remove Exist. 12" RCP
L 149+40	149	RT	40	Remove Exist. 12" RCP
L 151+55	206	LT	21	Remove Exist. 12" RCP
L 151+98	255	LT	34	Remove Exist. 12" RCP
L 152+26	226	LT	20	Remove Exist. 12" RCP
L 152+53	236	LT	8	Remove Exist. 12" RCP
L 152+98	148	LT	31	Remove Exist. 12" RCP
L 153+45	320	LT	83	Remove Exist. 12" RCP
L 154+75	383	LT	17	Remove Exist. 12" RCP
L 156+85	112	LT	20	Remove Exist. 24" HDPE
L 187+85	85	LT	21	Remove Exist. 12" RCP
L 188+30	39	LT	28	Remove Exist. 12" RCP
Y6 15+87	106	LT	14	Remove Exist. 12" RCP
Y6 16+30	69	LT	19	Remove Exist. 12" RCP
Y6 21+59	120	RT	28	Remove Exist. 12" RCP
Y6 22+29	127	RT	22	Remove Exist. 12" RCP
Y6 22+99	99	RT	17	Remove Exist. 12" RCP
Y6 23+69	41	RT	14	Remove Exist. 12" RCP
Y6 23+90	64	RT	21	Remove Exist. 12" RCP
Y6 24+80	37	RT	20	Remove Exist. 12" RCP
Y6 25+42	5	LT	19	Remove Exist. 12" RCP
Y6 25+55	23	RT	29	Remove Exist. 12" RCP
Y6 26+43	14	RT	19	Remove Exist. 12" RCP
Y6 26+85	16	LT	18	Remove Exist. 12" RCP
Y6 27+51	20	LT	48	Remove Exist. 12" RCP
Y6 28+26	14	RT	19	Remove Exist. 12" RCP
Y6A 12+23	6	RT	19	Remove Exist. 12" RCP
Y6A 13+40	21	LT	23	Remove Exist. 12" RCP
Y6A 14+14	34	LT	20	Remove Exist. 12" RCP
Y6A 15+13	20	LT	18	Remove Exist. 12" RCP
Y6A 15+54	19	LT	22	Remove Exist. 12" RCP
Y6A 17+25	0	CL	42	4' Culvert and Headwalls
Y6A 18+62	22	LT	15	Remove Exist. 12" RCP
Y6A 18+82	11	RT	22	Remove Exist. 12" RCP
Y6A 18+87	23	LT	22	Remove Exist. 12" RCP
Y6A 19+86	4	RT	19	Remove Exist. 12" RCP
Y6A 20+33	32	LT	16	Remove Exist. 12" RCP
Y6A 20+70	34	LT	21	Remove Exist. 12" RCP
Y6A 21+60	18	LT	20	Remove Exist. 12" RCP
Y6A 21+85	8	LT	29	Remove Exist. 12" RCP
Y6A 21+75	23	RT	30	Remove Exist. 12" RCP
Y7 15+61	27	RT	32	Remove Exist. 18" RCP
Y7 20+73	19	LT	23	Remove Exist. 15" RCP
Y7 23+80	38	LT	23	Remove Exist. 15" RCP
SHEET TOTALS			1593	