MOORECO

COMPUTED BY:	C.MOORE	DATE:	9/1/2016
CHECKED BY:	S. BONDOR	DATE:	9/1/2016

PROJECT NO.	SHEET NO.
U-3440	3D-12

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 %	Drainage 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	DO NOT USE PVC	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	R. C. PIPE CLASS IV 12	15	48	54	60	42" WELDED STEEL PIPE 0.1094" THICK GRADE B NOT IN SOIL	42" WELDED STEEL PIPE 0.1094" THICK GRADE B IN SOIL	36" WELDED STEEL PIPE 0.1094" THICK, GRADE B NOT IN SOIL	36" WELDED STEEL PIPE 0.1094" THICK, GRADE B IN SOIL	15" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CY	DRAINAGE STRUCTURE MASONRY FT	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. DETAIL 2C-10 OR 2C-14	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/ 2 GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME W/ GRATE 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	J.B. STD. 840.31 OR STD. 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	M.H. FRAME AND COVER STD. 840.54	ADJUST MH	15" C.S. ELBOW	18" C.S. ELBOW	24" C.S. ELBOW	30" C.S. ELBOW	36" C.S. ELBOW	48" C.S. ELBOW	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
L 54+67	41 RT	0722	0723																																																																																			26	
L 64+40	50 RT	0836	0837																																																																																		50	
L 70+00	10 LT	0838	0839																																																																																	28	
Y7 10+85	96 LT	0840	0841																																																																																			63	
L 86+52	41 LT	0932	0933																																																																																	23	
L 87+00	42 LT	0934	0935																																																																																	22	
L 87+77	4 LT	0936	1049																																																																																	40	
L 89+95	4 LT	1050	1051																																																																																	19	
L 95+51	30 RT	1052	1053																																																																																	159	
L 98+00	18 RT	1054	1055																																																																																	82	
Y8 12+00	15 LT	1056	1057																																																																																	20	
L 98+59	80 RT	1058	1059																																																																																	29	
L 99+50	1 RT	1122	1123																																																																																	128	
L 102+08	4 LT	1124	1125																																																																																	168	
Y11 10+61	18 RT	1126	1127																																																																																	58	
Y11 11+47	20 RT	1128	1129																																																																																	38	
Y11 12+00	20 RT	1130	1131																																																																																	29	
Y11 12+35	17 RT	1132	1133																																																																																	15	
Y11 13+18	15 RT	1134	1135																																																																																	18	
Y11 13+93	16 RT	1136	1137																																																																																	18	
L 106+59	44 LT	1138	1139																																																																																		20	
L 107+15	3 LT	1140	1141																																																																																	45	
L 110 + 22	6 RT	1142	1143																																																																																	52	
L 112+ 20	10 LT	1144	1145																																																																																	48	
L 117+36	68 LT	1247	1248																																																																																	28	
L 118+00	64 LT	1249	1263																																																																																	25	
L 120+00	98 LT	1251	1252																																																																																	147	
Y14 10+44	20 RT	1253	1254																																																																																	382	
Y15 12+25	4 RT	1255	1256																																																																																	44	
Y16 12+45	14 RT	1257	1258																																																																																	89	
L 121+96	7 LT	1259	1260																																																																																	26	
L 128+08	3 LT	1327	1328																																																																																	24	
L 128+50	1 LT	1329	1330																																																																																	160	
L 131+92	40 LT	1331	1332																																																																																	33	
L 137+28	26 RT	1333	1334																																																																																	16	
L 140+70	44 LT	1335	1336																																																																																	111	
L 140+73	35 RT	1435	1436																																																																																	76	
L 146+39	26 RT	1437	1438																																																																																	389	
Y8A 11+42	18 RT	1060	1061																																							36																																												
Y8 11+80	24 LT	1062	1063																																							20																																											
Y10 11+72	14 RT	1146	1147																																							40																																											
Y10 13+08	21 RT	1148	1149																																							20																																											
Y10 13+16	25 LT	1150	1151																																							24																																											
Y10 13+ 46	25 LT	1152	1153																																							20																																											
Y10 14+34	30 LT	1154	1155																																							28																																											
Y10 14+74	30 LT	1156	1157																																							28																																											
Y11 12+12	43 RT	1158	1159																																							48																																											
Y11 13+15	26 RT	1160	1161																																							16																																											
Y11 13+90	27 RT	1162	1163																																							20																																											
SHEET TOTALS																																								300																																										2748	

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