COMPUTED BY:	DK	DATE:	4/28/2017
CHECKED BY:	KM	DATE:	4/28/2017

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
B-4848	3D-1

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48 INCHES & UNDER)

STATION	LOCATION (LT. RT. OR CL)'	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	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
SIZE																			
THICKNESS OR GAUGE																			
-L- 17+75.00	RT	0401		2512.5															
-L- 17+75.00	CL	0401	0402		2509.5	2509.33													
-L- 14+51.00	CL	0403	0404		2511.78	2511.39													
-DRV1- 12+00.00	CL	0405	0406		2512.27	2511.99													
-L- 15+78.75	RT																		
-EL- 17+39.68	LT																		
-EL- 17+39.89	CL																		
-EL 17+40.50	RT																		
-DRV2- 10+61.81	CL																		
SHEET TOTALS																			
SAY																			

STATION	C.S. PIPE 12"	15"	18"	24"	30"	36"	42"	48"	.064	.064	.064	.064	.079	.079	.109	.109
SIZE																
THICKNESS OR GAUGE																
-L- 17+75.00																
-L- 17+75.00																
-L- 14+51.00																
-DRV1- 12+00.00																
-L- 15+78.75																
-EL- 17+39.68																
-EL- 17+39.89																
-EL 17+40.50																
-DRV2- 10+61.81																
SHEET TOTALS																
SAY																

STATION	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"
SIZE																
THICKNESS OR GAUGE																
-L- 17+75.00																
-L- 17+75.00			56													
-L- 14+51.00		76														
-DRV1- 12+00.00	60															
-L- 15+78.75																
-EL- 17+39.68																
-EL- 17+39.89																
-EL 17+40.50																
-DRV2- 10+61.81																
SHEET TOTALS	60	76	56													
SAY	**60**	**76**	**56**													

STATION	** " R.C. PIPE (CLASS V)	***" RC PIPE CULVERTS, CONTRACTOR DESIGN	****" RC PIPE CULVERTS, CONTRACTOR DESIGN	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	LIN. FT. A 5.0' THRU 10.0'	LIN. FT. B 10.0' AND ABOVE	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. "A" + (1.3 X COL. "B")	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES, AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET	CATCH BASIN	D.I. STD 840.14 or STD.840.15	D.I. FRAME AND W GRATE STD. 840.16	DRAINAGE PIPE ELBOWS NO. & SIZE	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
SIZE																								
THICKNESS OR GAUGE																								
-L- 17+75.00								1										1	1					
-L- 17+75.00																								
-L- 14+51.00																								
-DRV1- 12+00.00																								
-L- 15+78.75																							222	REMOVE 24" HDPE
-EL- 17+39.68																								REMOVE DI
-EL- 17+39.89																							40	REMOVE 24" HDPE
-EL 17+40.50																								REMOVE JB
-DRV2- 10+61.81																							87	REMOVE 12" CMP
SHEET TOTALS								1										1	1				349	
SAY								**1**										**1**	**1**				**350**	

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I.(N.S.)	(NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX