COMPUTED BY: KCBE DATE: 6/29/2016

CHECKED BY: RAM DATE: 9/6/2016

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
R-3100A	3D-11

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 54 INCHES & OVER)

STATION	LOCATION (LT, RT, OR CL)*	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	CLASS III R.C. PIPE (* CLASS IV) SIZE 54"	60"	*60"	66"	72"	78"	84"	C.S. PIPE SIZE 54" THICKNESS OR GAUGE .109	.138	.168	.138	.168	60" .138	.168	66" .138	.168	72" .139	.168	STRUCTURAL PLATE PIPE SIZE 60" THICKNESS OR GAUGE 12	10	66" 12	10	72" 12	10	REINFORCED ENDWALLS WITH R.C. - C.Y.	WITH C.S. - C.Y.	MASONRY DRAINAGE STRUCTURES CUBIC YARDS	C.B. STD. 840.01 OR 840.02	FRAMES, GRATES & HOOD STANDARD 840.03 TYPE OF GRATE E	F	G	CONCRETE TRANSITIONAL SECTION DROP INLET STD. 852.06		D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME WITH TWO GRATES STD. 840.16	G.D.I. TYPE "A" STD. 840.17 OR 840.26	G.D.I. TYPE "B" STD. 840.18 OR 840.27	G.D.I. TYPE "D" STD. 840.19 OR 840.28	G.D.I. (W.S. SAG) FRAME WITH GRATE STD. 840.22	G.D.I. (W.S. SAG) FRAME WITH TWO GRATES STD. 840.22	G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20	M.H. FRAME AND COVER STD. 840.54	J.B. STD. 840.31 OR 840.32	T.B.J.B. STD. 840.34	T.B.D.I. STD. 840.35	REINF. CONC. FLARED END SECTIONS NO. & SIZE	CORR. STEEL FLARED END SECTIONS NO. & Size	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" * C.Y. STD. 840.72	ANCHORAGE FOR FRAME AND GRATES STD. 840.25	PIPE REMOVAL LIN. FT.	REMARKS
L 32+91	LT	508			992.2	988.6				172																								5.9																											92	
L 146+90	RT	1401		955.1																																5.548											1			1	1											
		1401	1402		948.3	941.1		212																																																				204	REMOVE DI
L 149+00	RT	1402		949																																4.27											1			1	1											
		1402	1405		941.1	934.9		184																																																				248	REMOVE DI
L 150+82	RT	1405		944.2																																4.27											1			1	1											
		1405	1407		934.9	930.5		120																																																					REMOVE DI
L 152+00	RT	1407		939.9																																5.274											1			1	1											
		1407	1409		930.5	930.1			120																																																				160	ENERGY DISSIPATOR
R-3100A TOTALS								516	120	172																								5.900 / 6		19.362 / 20											4			4	4											704	
R-3100B TOTALS								116	236																									11.100 / 11.1																													
GRAND TOTALS								632	356	172																								17.1		20											4			4	4											704	
																																																		**	**											

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.)	GRATED DROP INLET (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

** **SEE SHEET 3D-11 FOR ADDITIONAL QUANTITIES