COMPUTED BY:
 WNK
 DATE:
 09/25/2019

 CHECKED BY:
 EPA
 DATE:
 09/26/2019

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO.

//BP./.R.90

PREPARED IN THE OFFICE OF:

KISINGER CAMPO

SHEET NO.

ON FIRM LICENSE No: C-1506 301 Fayetteville St., Suite 1500 Raleigh, NC 27601

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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## NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROJECT NO. SHEET NO.

17BP.1.R.90 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)

												/							<u> </u>																	
STATION	IN (LT, RT, OR CL)'	STRUCTURE NO.	TOP ELEVATION INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC)				C.S. PIPE				R.C. PIPE CLASS III				R.C. PIPE CLASS IV			TRACTOR DESIGN	DESIGN	-	STD. 838.01 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE)	QUANTITIES FOR DRAINAGE STRUCTURES  *TOTAL L.F. FOR PAY  QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')		3 X COL.'B	FRAME, GRATES, AND HOOD STANDARD 840.03		SECTION SECTION V/2 GRATES STD. 840.29		.Y. STD. 840.71	STD. 840.72		C.B. N.D.I. D.I. G.D.I. G.D.I.(N.S.)	CATCH BASIN NARROW DROP INLET DROP INLET GRATED DROP INLET (NARROW SLOT)	
SIZE	LOCATIC				12" 15"	18" 24"	30" 36" 42'	48" 48" SS	AAP	12" 15	" 18" 24"	30" 36" 42	' 48'' 12''	15" 18" 2	4" 30" 3	36'' 42'' 48	12" 15"	18" 24" 30	36" 42"	48'' S	TS, CONT	TS, CONT		CU. YARDS	5.0')	A B	STD 840.0			S FRAME V	ELBOW	PLUG, C.	."B" C.Y. §	   	J.B. M.H. T.B.D.I.	JUNCTION BOX MANHOLE TRAFFIC BEARING
THICKNESS OR GAUGE	NO Ca H	10							USE	.064	.064	.079	.109							R.C. PIPE (CLAS)	PIPEC	RC PIPE CULVER	SIDE DRAIN PIPE	R.C.P.	EACH (0' THRU	THRU 10.0' AND ABOVE	STD 840 01 OR S	TYPE OF GRATE	P INLET CH BASIN	D.I. STD. 840.3	DRAINAGE PIPE I	C. & BRICK PIPE	C. COLLARS CL	REMOVAL LIN. I	T.B.J.B.	DROP INLET TRAFFIC BEARING JUNCTION BOX
																				*	**		15" S		PER	5.0' 7	2   E	E F (	DRO CAT	T.B. G.D	15".[	CON	CON	PIPE		REMARKS
L 14+83	14 LT 40	00	97.4																						1					1 1						
	<b> </b>	0 401	94.6 89	.9	20			Х																							1					
L 14+83	14 RT 40		97.4																				$\perp \perp$		1					1 1						
	40	2 403	94.6 91	.4	20			X																							1					
SHEET TOTALS					40																				2					2 2	2					