WNK	DATE:	ATE:09/25/19														PROJEC	REFERENCE NO.	SI																	
EPA	DATE:	. 09/2	26/19				STATE OF NORTH CAROLINA																		R-0120										
													\mathbb{D}	DIVIS	SION	I OF		GHW	VAYS)													PREPARED IN The office of:	KCA KISINGER CAMPO & ASSOCIATES	NC FIRM 301 F Raj (
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STATION		STRUCTURE NO.	TOP ELEVATION	NVERT ELEVATION	NVERT ELEVATION	SLOPE CRITICAL		AGE PIPE			T OF PL			ALLS	S, <i>E</i> 1	TC. (R.C. PI CLASS	'IPE			END STD. 838. STD. (UN	NALLS 838.01 11 OR 838.80 LESS		*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')	FF GR ANE STA	RAME, ATES, HOOD NDARD 40.03	CONCRETE TRANSITIONAL SECTION	ES STD. 840.29		Ш	. 840.71	40.72		C.B. N.D.I. D.I.	ABBREVIATIONS CATCH F NARROW DF DROP I	DP INLET LET
	OFFSET	RUCTURE NO.	TOP ELEVATION		INVERT ELEVATION	SLOPE CRITICAL	DRAIN	AGE PIPE			T OF PL		ENDW A	4LLS	S, E1	R.C. PI	'IPE			END STD. 838. STD. (UN	838.01 11 OR 838.80 LESS DTED		TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL'B')	FF GR ANE STA	ATES, HOOD NDARD	CONCRETE TRANSITIONAL SECTION	/O GRATES STD. 840.29		IO. & SIZE	C.Y. STD. 840.71	/. STD. 840.72		N.D.I. D.I. G.D.I. G.D.I.(N.	CATCH E NARROW DE DROP I GRATED DR 6.) (NARROV	DP INLE LET P INLET SLOT)
	OFFSET	RUCTURE NO.	TOP ELEVATION		INVERT ELEVATION	SLOPE CRITICAL	DRAIN	AGE PIPE AP, HDPE, or PV	VC)		T OF PL	PES, 1	R.C. PIPE CLASS III			R.C. PI CLASS	1PE 3 IV		TS, CONTRACTOR DESIGN	END STD. 838 STD. (UN NC OTHE	838.01 11 OR 838.80 LESS DTED		*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')	FF GR ANE STA	ATES, HOOD NDARD	CONCRETE TRANSITIONAL SECTION	VITH TWO GRATES STD. 840.29 5		BOWS NO. & SIZE	PLUG, C.Y. STD. 840.71	"B" C.Y. STD. 840.72		N.D.I. D.I. G.D.I.	CATCH E NARROW DF DROP I GRATED DR S.) (NARROV JUNCTIO MANH	DP INLE LET IP INLET SLOT) BOX DLE
STATION		RUCTURE NO.	TOP ELEVATION		INVERT ELEVATION	SLOPE CRITICAL	DRAIN (RCP, CSP, CA	AGE PIPE AP, HDPE, or PV	USE HDPE (3Ad USE HDPE	12" 15" 18"	C.S. PIPE	PES, 1 48" 12" 15"	R.C. PIPE CLASS III			R.C. PI CLASS	1PE 3 IV		CONTRACTOR DESIGN CONTRACTOR DESIGN	END STD. 838. STD. (UN NC OTHE CU.	NALLS 838.01 11 OR 838.80 LESS DTED RWISE)		i' AND ABOVE □ i' AND ABOVE □ i' AND ABOVE □ i' A' + (1.3 X COL'B')	FF GR STA STA T	ATES, HOOD NDARD	IP INLET CONCRETE CONCRETE CONCRETE SE	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.29 T.B.D.I. STD. 840.35		SIDE DRAIN 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.	N.D.I. D.I. G.D.I. G.D.I.(N. J.B. M.H.	CATCH E NARROW DE DROP I GRATED DR S.) (NARROV JUNCTIO MANH TRAFFIC B	DP INLE LET SLOT) BOX DLE ARING LET ARING
STATION SIZE THICKNESS		10 400 400 10 10 10 10 10 10 10 10 10 10 10 10 1	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAIN (RCP, CSP, CA	AGE PIPE AP, HDPE, or PV	USE HDPE (3Ad USE HDPE	12" 15" 18"	T OF PL C.S. PIPE 24" 30" 36" 42"	PES, 1 48" 12" 15"	R.C. PIPE CLASS III			R.C. PI CLASS	1PE 3 IV	PIPE (CLASS V)	: CULVERTS, CONTRACTOR DESIGN : CULVERTS, CONTRACTOR DESIGN AIN PIPE	END STD. 838. STD. (UN NC OTHE CU. 3	WALLS 838.01 11 OR 838.80 LESS DTED RWISE) YARDS	ER EACH (0' THRU 5.0') QUANTITIES FOR DRAINAGE 0' THRU 10.0' > STRUCTURES	i' AND ABOVE □ i' AND ABOVE □ i' AND ABOVE □ i' A' + (1.3 X COL'B')	FF GR STA STA T	ATES, 0 HOOD NDARD 40.03 PE OF RATE	P INLET CONCRETE CONCRETE CONCRETE SE	I. (N.S.) FRAME D.I. STD. 840.		SIDE DRAIN 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.	N.D.I. D.I. G.D.I. G.D.I.(N. J.B. M.H. T.B.D.I	CATCH E NARROW DE DROP I GRATED DR (NARROV JUNCTIO MANH TRAFFIC B DROP I TRAFFIC B JUNCTIO	DP INLE LET SLOT) BOX DLE ARING LET ARING
STATION SIZE THICKNESS OR GAUGE	OFFSET	TO STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	20.5	SLOPE CRITICAL	DRAIN (RCP, CSP, CA	AGE PIPE AP, HDPE, or PV	USE HDPE (3Ad USE HDPE	12" 15" 18"	T OF PL C.S. PIPE 24" 30" 36" 42"	PES, 1 48" 12" 15"	R.C. PIPE CLASS III			R.C. PI CLASS	1PE 3 IV	PIPE (CLASS V)	: CULVERTS, CONTRACTOR DESIGN : CULVERTS, CONTRACTOR DESIGN AIN PIPE	END STD. 838. STD. (UN NC OTHE CU. 3	WALLS 838.01 11 OR 838.80 LESS DTED RWISE) YARDS	ER EACH (0' THRU 5.0') QUANTITIES FOR DRAINAGE 0' THRU 10.0' > STRUCTURES	i' AND ABOVE □ i' AND ABOVE □ i' AND ABOVE □ i' A' + (1.3 X COL'B')	FF GR STA STA T	ATES, 0 HOOD NDARD 40.03 PE OF RATE	P INLET CONCRETE CONCRETE CONCRETE SE	I. (N.S.) FRAME D.I. STD. 840.		SIDE DRAIN 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.	N.D.I. D.I. G.D.I. G.D.I.(N. J.B. M.H. T.B.D.I	CATCH E NARROW DE DROP I GRATED DR (NARROV JUNCTIO MANH TRAFFIC B DROP I TRAFFIC B JUNCTIO	DP INLE LET SLOT) BOX DLE ARING LET ARING

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19	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	ſ
	DIVISION OF HIGHWAYS	
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