COMPUTED BY:
 MJB
 DATE:
 1/16/2023

 CHECKED BY:
 ASB
 DATE:
 11/7/2023

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. SHEET NO. R-2577A 3D-24

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	\mathbb{OF}	PIPES,	ENDWA	LLS,	ETC	. (FOF	R PIPES	48" &	UNDER)
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LINE & STATION	Ę	STRUCTURE NO.	VATION	EVATION	EVATION UIRED SLOPE	(RCP	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, PP or PVC)				C.S. PIF		R.	R.C. PIPE CLASS III		R.C. PIPE CLASS IV		PIPE AS NOTED		D STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE)		QUANTITIES	FOR DRAINAGE STRUCTURES	QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B')	FR GRA AND STAN	AME, ATES, HOOD IDARD 0.03	CONCRETE TRANSITIONAL SECTION			840.20	840.24 D. 840.29									C.B. N.D.I. D.I. G.D.I. G.D.I.(N.S.) J.B.	NARI DR GRATEI (NAR	TCH BASIN ROW DROP INLET ROP INLET ED DROP INLET RROW SLOT) ICTION BOX
SIZE	OFFS		OP ELEV	/ERT ELI	VERT ELI	15" 18'	" 24" 30") V	15" 18" 2	4'' 30'' 3	6" 42" 48" 15"	18" 24"	36" 42"	48" 15" 1	8" 24" 30	0" 36" 2	24" 24" 30	0" 30" 4	48" 48"	CU. YARDS	8	A	В					9 2	ES B	TES STD. ATES. ST			1.37). 840.71		M.H. T.B.D.I.	M TRAFF	IANHOLE FIC BEARING
THICKNESS OR GAUGE		FROM	01	NI	NII %			DO NOT USE RCP DO NOT USE CSP	DO NOT USE CAAP DO NOT USE HDPE, PP, OR P\	.064	.079	.109						Trenchless W.S. (IN SOIL) Trenchless W.S. (NOT IN SOIL)	Trenchless W.S. (IN SOIL) Trenchless W.S. (NOT IN SOIL)	Trenchless W.S. (IN SOIL) Trenchless W.S. (NOT IN SOIL)	R.C.P.	C.C.: . ER EACH (0' THRU 5.0')	χυ 10.0'	0.0' AND ABOVE		PE OF RATE	ROP INLET ATCH BASIN	.I. STD. 840.14 OR STD. 840.15 .I. FRAME AND GRATE STD. 840.16	.D.I. TYPE "A" STD. 840.17 OR 840.2 .D.I. TYPE "B" STD. 840.18 OR 840.2	II. IYPE "D" SID. 840.19 OK 84 II. FRAME WITH TWO FLAT GR II. FRAME WITH TWO GRATES	D.I. (N.S.) FRAME WITH TWO GRATE. D.I. (N.S.) FR. WITH TWO FLAT GRATE			TEEL GRATE AND FRAME STD. 840:54. I.H. FRAME AND COVER STD. 840:54 DJUST MH	DJUST CB ERM DRAINAGE OUTLET TCB STD. 840.04 OR 840.05	LOWABLE FILL (CY)	.S. PIPE ELBOWS NO. & SIZE	ONC. & BRICK PIPE PLUG, C.Y. STD	IPE REMOVAL LIN. FT.	T.B.J.B.	TRAFF	ROP INLET FIC BEARING ICTION BOX
SHEET 23																						-	2		8 L				8 8 8	3 8 8	0 0 2	1 σ ¬		Ø ≥ ∢	A B O				<u> </u>			
- L2- 239+86.70 - L2- 239+86.70	-41 LT -41 LT	2301 2301	964.8		960.5 0.4	%					_				68					_		1			1	1																
- Y18- 10+66.65 - Y18- 10+66.65	38 RT	2311 2311	963.3	}	959.0 0.4										QA							1			1 1																	
- Y18- 10+55.82	-42 LT	2312	963.4			/									04							1			1 1																	
- Y18- 10+55.82 - L- 240+47.21	-42 LT	2312	2313 2313	_	958.7 0.5° 961.6 0.4°	%					++		32		56		+															++										
- L- 245+62.92	49 RT	2319	980.6	;									02									1			1	1																
- L- 245+62.92 - L- 243+50.17	49 RT 41 RT	2319 2318	2318 974.8	+	970.8 0.5	%					++				216		+					1			1	1																
- L- 243+50.17	41 RT	2318	2314	970.8	965.8 0.5	%									168																											
- L2- 241+82.43 - L2- 241+82.43	53 RT 53 RT	2314 2314	969.8 2313		962.4 0.5	%					++				136		++		+			1			1	1						++						,				
- L2- 240+48.13	41 RT	2313	966.4		057.7 0.5	0/							0.4									1	3.4		1	1													0.5			
- L2- 240+48.13 - L2- 240+52.20	-41 RT	2302	2302 966.5		957.7 0.5	%							84									1	3.8		1	1													85			
- L2- 240+52.20	-41 LT	2302	2304 985.5		957.4 0.5	%							52									1			1	1													20			
- L- 247+51.97 - L- 247+51.97	-41 LT	2309 2309		_	977.8 0.4	%									156										1	1													22			
- L- 246+00.25	-41 LT	2308 2308	981.8 2307		974.0 0.5	0/									140							1			1	1													27			
- L- 246+00.25 - L- 244+64.06	-41 LT	2308	978.0		974.0 0.5	%									140							1			1	1													23			
- L- 244+64.06 - L- 243+47.70	-41 LT	2307 2306	2306 974.7	_	970.7 0.5	%									120							1			1	1																
- L- 243+47.70	-41 LT	2306	2305		968.4 0.5	%									84										'																	
- L2- 242+01.09 - L2- 242+01.09	-12 LT	2325	971.3 2324	1	968.3 0.1	%					++				68							1					1	1 1														
- L- 242+67.05	-12 LT	2324	973.2	2							+				00							1					1	1 1														
- L- 242+67.05 - L- 242+67.16	-12 LT -41 LT		2305 972. ²	_	968.2 0.5	%	+ + +				++	+		+	32		++		++	++		1	0.2		1	1						++	+ + +			+						
- L- 242+67.16	-41 LT	2305	2310	967.2	963.3 2.0	%				44													,. <u>.</u>													2	2 @ 15					
- Y19- 10+78.00 - Y19- 10+82.03	-52 LT 27 RT	2328 2317	2317 971.2		964.5 0.5	%					++		80	+	+		+		+	+		1	2.1		1 1	+						++	+ + +						89			
- Y19- 10+82.03	27 RT	2317	2315	964.1	963.9 0.5	%					\bot		24													$\downarrow \downarrow$																
- L- 247+54.85 - L- 247+54.85	53 RT 53 RT		985. ² 2321	982.4	980.4 0.5	%					++	40		+			+			++-		 1	+		1	1						++										
- Y18- 11+12.11	19 RT	2316	964.9																																1							
- Y18- 10+90.01	-20 LT	2303	964.2											_												_																
			_		$+$ $\overline{+}$	$+ \overline{+}$					$+ \overline{+}$						$+ \overline{1}$						 			$+ \overline{1}$						$+ \overline{+}$										
3D-24 SHEET TOTALS		 			 	+				44	++	40	104 168		1328		+		++			+	17 96		15 3	7 5	2	2 2				+ + -			2		2 @ 15		284			
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