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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROJECT NO.	SHEET NO.
C-5621	3D-3

R02/08/21

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

LINE & STATION	OFFSET	STRUCTURE NUMBER FROM	STRUCTURE NUMBER TO	TOP ELEVATION FT.	INVERT ELEVATION FT.	INVERT ELEVATION FT.	MINIMUM REQUIRED SLOPE %	SIDE DRAIN 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																			
		0513	0514		767.10	766.80													
RA2 11+73	35 RT	0514		774.20															
		0514	0515		766.70	764.50													
Y7 11+27	23 LT	0515		772.93															
		0515	0516		764.50	764.10													
Y7 11+42	32 LT	0516		773.10															
Y7 11+29	37 RT	0517		772.64															
		0517	0526		769.73	766.50													
Y7 11+89	51 RT	0521		770.60															
		0521	0526		763.55	763.52													
RA2 13+47	33 RT	0522		773.92															
		0522	0523		770.75	770.55													
Y2 11+31	5 LT	0523		775.50															
		0523	0509		769.80	769.15													
RA2 10+50	32 RT	0524		773.58															
		0524	0525		770.58	770.23													
RA2 10+90	34 RT	0525		773.54															
		0525	0517		770.13	769.83													
Y7 11+71	28 RT	0526		773.85															
Y7 11+93	17 RT	0527		774.10															
		0527	0526		771.10	769.00													
Y2 14+95	CL	0528		802.59															
		0528	0503		799.59	796.74													
RA2 13+10	35 RT	0529		773.68															
		0529	0511A		768.50	768.30													
Y1A 14+83	32 RT	0601		802.53															
		0601	0604		779.53	798.70													
Y1A 14+78	26 LT	0602		802.83															
		0602	0603		796.80	792.40													
Y1A 14+86	61 RT	0604		802.00															
		0604	0605		796.90	796.60													
Y1A 17+49	44 RT	0606		794.04															
		0606	0607		791.04	790.10													
Y1A 17+32	40 RT	0607		793.99															
		0607	0611		790.00	787.25													
Y1A 17+50	36 LT	0608		794.11															
		0608	0634		790.72	790.40													
Y1A 17+34	33 LT	0609		794.10															
		0609	0608		790.90	790.82													
Y1A 17+42	79 RT	0611		791.50															
		0611	0612		786.50	785.90													
Y4 11+60	21 LT	0612		794.13															
		0612	0633		785.80	785.70													
Y4 11+59	28 RT	0613		794.03															
		0613	0614A		785.40	785.10													
Y4 10+82	36 RT	0614		798.43															
		0614	0614A		789.30	785.80													
Y4 11+19	33 RT	0614A		796.50															
		0614A	0615		784.50	783.00													
		0616	0635		780.80	780.40													
						SHEET TOTAL													

LINE & STATION	C.S. PIPE 12	15	18	24	30	36	42	48	R.C. PIPE CLASS III 12	15	18	24	30	36	42	48	R.C. PIPE CLASS IV 12	15	18	24	R.C. PIPE CLASS V 12	15	18	24
SIZE / THICKNESS OR GAUGE	0.064	0.064	0.064	0.079	0.079	0.109	0.109																	
													64											
RA2 11+73																								
													84											
Y7 11+27																								
													20											
Y7 11+42																								
Y7 11+29																								
									36															
Y7 11+89																								
														28										
RA2 13+47																								
									32															
Y2 11+31																								
												36												
RA2 10+50																								
									60															
RA2 10+90																								
									44															
Y7 11+71																								
Y7 11+93																								
									24															
Y2 14+95																								
									52															
RA2 13+10																								
												40												
Y1A 14+83																								
									28															
Y1A 14+78																								
									56															
Y1A 14+86																								
												64												
Y1A 17+49																								
									16															
Y1A 17+32																								
									44															
Y1A 17+50																								
									64															
Y1A 17+34																								
									16															
Y1A 17+42																								
												52												
Y4 11+60																								
												28												
Y4 11+59																								
												40												
Y4 10+82																								
									40															
Y4 11+19																								
													120											
														76										
SHEET TOTAL									512			260	288	76	28									

| LINE & STATION | ENDWALLS STD. 838.01 OR STD.838.11 (UNLESS OTHERWISE NOTED) CY | REINFORCED ENDWALLS CY | MASONRY DRAINAGE STRUCTURE CY | 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 *TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN FT. PER EACH (0' THRU 5.0') | A 5.0' THRU 10.0' | B 10.0' AND ABOVE | 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 D.I. STD. 852.04 OR STD. 852.06 | C.B. STD. 852.05 | D.I. STD. 840.14 OR STD. 840.15 | D.I. FRAME AND GRATE 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 | T.B. G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.29 | G.D.I. (W.S. FLAT) FRAME W/ 2 GRATES STD. 840.20 | G.D.I. (W.S. SAG) FRAME W/ 2 GRATES STD. 840.22 | G.D.I. (W.S. SAG) FRAME W/ GRATE STD. 840.22 | G.D.I. (N.S. SAG) FRAME W/ 2 GRATES STD. 840.24 | J.B. STD. 840.31 OR 840.32 | T.B. J.B. STD. 840.34 | T.B.G.D.I. STD. 840.35 | T.B.G.D.I. STD. 840.36 | STEEL FRAME AND TWO GRATES STD. 840.37 | STEEL FRAME AND GRATE STD. 840.37 | M.H. STD. 840.51, STD. 840.52, OR STD.53 | M.H. FRAME AND COVER STD. 840.54 | CONVERT EXISTING D.I. TO C.B. | CONVERT EXISTING C.B. TO J.B. | CONVERT EXISTING D.I. TO J.B. | CONVERT EXISTING J.B. TO 2 G.I. | CONVERT C.B. TO D.I. | ADJUST EXISTING MANHOLE | ADJUST EXISTING C.B. | ADJUST D.I. | ADJUST 2GI | 15" C.S. ELBOW | 18" C.S. ELBOW | 24" C.S. ELBOW | 30" C.S. ELBOW | PARALLEL PIPE END SECTION - PRECAST CONCRETE SECTION FOR 15" TO 24" STD. 310.02 | CROSS PIPE END SECTION - PRECAST CONCRETE SECTION FOR 18" TO 30" STD. 310.03 | BERM DITCH OUTLET STD. 850.10 (PER EACH) | BERM DITCH OUTLET STD. 850.11 (PER EACH) | CONC. COLLARS CL. "B" C.Y. STD. 840.72 | FLOWABLE FILL, C.Y. | CONC. & BRICK PLUG, C.Y. STD. 840.71 | PIPE REMOVAL LIN. FT. | REMARKS |
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