COMPUTED BY:	AMK	DATE:	3/2/2026
CHECKED BY:	CAH	DATE:	3/3/2026

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

SIZE / THICKNESS OR GAUGE

LINE & STATION	OFFSET		STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	% MINIMUM REQUIRED SLOPE	SIDE DRAIN PIPE (RCP, CSP, CAAP, HDPE, PP 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, PP, OR PVC
SHEET 4																				
- Y1- 16+50.00	-31	LT	428		3174.1															
- Y1- 16+50.00		LT	428	414		3164.0	3163.8	0.9%												
- Y1- 16+50.00	-20	LT	414		3166.5															
- Y1- 16+50.00		LT	414	401		3163.8	3163.5	0.4%												
- Y1- 17+50.00	-20	LT	401		3169.4															
- Y1- 17+50.00		LT	401	426		3163.5	3163.3	0.4%												
- DR1- 11+49.83	10	RT	415		3192.1															
- DR1- 11+49.83		RT	415	425		3184.0	3178.9	4.4%												
- DR1- 11+14.69		RT	427	425		3204.7	3178.9	1.8%												
- DR1- 11+00.00	7	RT	425		3182.0															
- DR1- 11+00.00		RT	425	426		3177.0	3171.1	0.5%												
- DR1- 10+43.58	7	RT	426		3174.2															
- DR1- 10+43.58		RT	426	402		3163.3	3163.0	0.5%												
- Y1- 21+81.81	-49	LT	404		3180.1															
- Y1- 21+81.81		LT	404	411		3177.3	3176.9	0.5%												
- Y1- 21+95.00	-30	LT	411		3180.9															
- Y1- 21+95.00		LT	411	413		3176.2	3176.0	0.5%												
- Y1- 21+09.30	-50	LT	412		3180.5															
- Y1- 21+09.30		LT	412	413		3177.5	3177.3	0.6%												
- Y1- 21+58.00	-31	LT	413		3183.0															
- Y1- 21+58.00		LT	413	430		3175.5	3175.3	0.7%												
- Y1- 21+58.13	0	CL	430		3182.8															
- Y1- 21+58.13		CL	430	419		3175.3	3175.1	0.7%												
- Y1- 21+58.22		RT	421																	
-Y1- 22+94.49	28	RT	422							48										
-Y1- 25+04.80	-16	LT	431							20										
- L- 17+50.00	32	RT	410		3200.0															
- L- 17+50.00		RT	410	417		3196.5	3195.5	0.8%												
- L- 16+39.51	22	RT	417		3199.0															
- L- 16+39.51		RT	417	420		3195.0	3194.4	0.6%												
- Y1- 21+18.13		LT	429		3182.4															
- Y1- 21+18.13		LT	429	430		3179.2	3179.0	0.5%												
- Y1- 21+58.22		RT	419		3180.2															
- Y1- 21+58.22		RT	419	409		3169.1	3165.0	0.7%												
SHEET 5																				
-L- 27+22.19	28	RT	510							64										
- L- 26+75.00		RT	507	505		3252.9	3241.0	3.1%												
- L- 26+00.00	28	RT	505		3245.0															
- L- 26+00.00		RT	505	506		3239.8	3233.5	0.5%												
- L- 25+10.00	27	RT	506		3238.7															
- L- 25+10.00		RT	506	504		3233.5	3226.8	0.6%												
- L- 24+34.00	31	RT	504		3232.0															
- L- 24+34.00		RT	504	503		3226.8	3218.9	0.8%												
- L- 22+00.00	19	RT	503		3223.8															
- L- 22+00.00		RT	503	501		3218.4	3214.6	0.5%												
- L- 22+00.00	-33	LT	501		3220.0															
- L- 22+00.00		LT	501	502		3213.3	3213.1	0.5%												
SHEET TOTALS									0	132	0	0	0	0	0	0				

LINE & STATION	C.S. PIPE 15" (.064)	18" (.064)	24" (.064)	30" (.079)	36" (.079)	42" (.109)	48" (.109)	R.C. PIPE CLASS III 15"	18"	24"	30"	36"	42"	48"	R.C. PIPE CLASS IV 15"	18"	24"	30"	36"	42"	48"	PIPE AS NOTED 6" HDPE	15" RCP-V	36" WELDED STEEL, IN SOIL	36" WELDED STEEL, NOT IN SOIL	ENDWALLS STD. 838.01 OR STD. 838.11 (UNLESS NOTED OTHERWISE) CU. YARDS R.C.P.	C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES PER EACH (0' THRU 5.0')	*TOTAL L.F. FOR PAY QUANTITY SHALL BE COL. 'A' + (1.3 X COL.'B') LIN. FT. A 5.0' THRU 10.0'	B 10.0' AND ABOVE
SHEET 4																														
- Y1- 16+50.00																												1	5.0	0.2
- Y1- 16+50.00															12															
- Y1- 16+50.00																												1		
- Y1- 16+50.00															104															
- Y1- 17+50.00																												1	1.0	
- Y1- 17+50.00															40															
- DR1- 11+49.83																												1	3.2	
- DR1- 11+49.83								48																						
- DR1- 11+14.69	52																													
- DR1- 11+00.00																												1	0.1	
- DR1- 11+00.00								56																						
- DR1- 10+43.58																												1	5.0	0.9
- DR1- 10+43.58								48																						
- Y1- 21+81.81																												1		
- Y1- 21+81.81								24																						
- Y1- 21+95.00																												1		
- Y1- 21+95.00										36																				
- Y1- 21+09.30																												1		
- Y1- 21+09.30									52																					
- Y1- 21+58.00																												1	2.6	
- Y1- 21+58.00																		32												
- Y1- 21+58.13																												1	2.6	
- Y1- 21+58.13																		28												
- Y1- 21+58.22									72																					
-Y1- 22+94.49																														
-Y1- 25+04.80																														
- L- 17+50.00																												1		
- L- 17+50.00										112																				
- L- 16+39.51																												1		
- L- 16+39.51											80																			
- Y1- 21+18.13																												1		
- Y1- 21+18.13															40															
- Y1- 21+58.22																												1	5.0	1.1
- Y1- 21+58.22																		40												
SHEET 5																														
-L- 27+22.19																														
- L- 26+75.00	72																													
- L- 26+00.00																												1	0.3	
- L- 26+00.00											84																			
- L- 25+10.00																												1	0.3	
- L- 25+10.00											72																			
- L- 24+34.00																												1	0.3	
- L- 24+34.00											236																			
- L- 22+00.00																												1	0.4	
- L- 22+00.00																			52											
- L- 22+00.00																												1	1.8	
- L- 22+00.00												36																		
SHEET TOTALS	124	0	0	0	0	0	0	176	124	148	472	36	0	0	196	0	0	100	52	0	0	0	0	0	0	0	0	20	27.6	2.2

LINE & STATION	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 DROP INLET	CATCH BASIN	D.I. STD. 840.14 OR STD. 840.15	D.I. FRAME AND 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. FRAME WITH TWO FLAT GRATES STD. 840.20	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	G.D.I. (N.S.) FR. WITH TWO FLAT GRATES. STD. 840.29	J.B. STD. 840.31 OR 840.32	TBJB STD. 840.34	T.B.D.I. STD. 840.35	STEEL GRATE AND FRAME STD. 840.37	SPRING BOX STD. 840.41	M.H. FRAME AND COVER STD. 840.54	PIPE COLLAR	ADJUST CB	ADJUST DI	BERM DRAINAGE OUTLET STD. (4" CONCRETE PAVED DITCH)	TEMPORARY STEEL PLATE COVERS FOR MASONRY DRAINAGE	ENERGY DISSIPATOR, SEE DETAIL 2C-7	FLOWABLE FILL (CY)	C.S. PIPE ELBOWS	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	CONC. COLLARS CL. "B" C.Y. STD. 840.72	PIPE REMOVAL LIN. FT.	REMARKS
SHEET 4																																	
- Y1- 16+50.00										1					1																		
- Y1- 16+50.00																																	
- Y1- 16+50.00										1					1																		
- Y1- 16+50.00																																	
- Y1- 17+50.00										1					1																		
- Y1- 17+50.00																																	
- DR1- 11+49.83										1				1																			
- DR1- 11+49.83																																	
- DR1- 11+14.69																									11				2 @ 15				
- DR1- 11+00.00										1					1																		
- DR1- 11+00.00																																	
- DR1- 10+43.58										1					1																		
- DR1- 10+43.58																																	
- Y1- 21+81.81										1				1																			
- Y1- 21+81.81																																22	
- Y1- 21+95.00									1					1																			
- Y1- 21+95.00																																	
- Y1- 21+09.30										1				1																			
- Y1- 21+09.30																																	
- Y1- 21+58.00																1					1												
- Y1- 21+58.00																																102	
- Y1- 21+58.13																	1				1												
- Y1- 21+58.13																																	
- Y1- 21+58.22																																192	
-Y1- 22+94.49																																	Driveway pipe
-Y1- 25+04.80																																	
- L- 17+50.00									1					1																			
- L- 17+50.00																																	
- L- 16+39.51									1						1																		
- L- 16+39.51																																27	
- Y1- 21+18.13					1										1			1															
- Y1- 21+18.13																																	
- Y1- 21+58.22																1					1												
- Y1- 21+58.22																																	
SHEET 5																																	
-L- 27+22.19																												2.7				89	Driveway pipe
- L- 26+75.00																													2 @ 15				
- L- 26+00.00									1					2																			4GI
- L- 26+00.00																												4.2				17	
- L- 25+10.00									1					2																			4GI
- L- 25+10.00																																61	
- L- 24+34.00									1					2																			4GI
- L- 24+34.00																												3.3				30	
- L- 22+00.00																1					1												
- L- 22+00.00																																	
- L- 22+00.00																1					1												
- L- 22+00.00																																	
																											0						
SHEET TOTALS	0	0	0	0	1	0	0	0	6	8	0	0	0	11	7	4	1	1	0	0	5	0	0	0	11	0	0	10	4 @ 15	0	0	540	

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.)	(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

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