

## Irrigation System Hydraulic Worksheet

Project Name: Project Location:	Quik Trip #4273 Wolfenberger Road & Caprice Drive							Date:	,	April 21, 2025
Prepared by:	Matthew	McFarl	ing				Current T			
Tap Size Static Water Pressure:		1.00 43	" psi			Source of Pressure	City Main			
Hydraulic Grade At Zone:	0					Company	Irrigation Design & Consulting			
	Ft. of Copper			Pipe Size (")		K Copper	Friction (from		Flow-GPM	Loss/Gain
Service Line (tap to meter): Water Meter: Service Line (meter to backflow): Backflow: Master Valve:		75 LF		1.00 1.00		K Copper	4.21	/100 FT	7 7	3.16 0.00
	5	5 LF		1.00 1" 1"		K Copper	4.21 11.6 1.89		7 7 7	0.21 11.60 1.89
Pressure Required at Head:										20
Lateral Allowance:										0.00
Control Valve Allowance:  Mainline Allowances:	Dine Mete	vriol	Sizo		Colo					1.89
Length of Mainline	Pipe Mate LF CL200 LF CL200	BE	Size	"@ "@	Gals. 7 7	GPM GPM-Looped	0.48	/100 FT /100 FT		0.00 4.90
Elevation:	Tap eleva	tion	6,168				High/Low:	6,168		0.00
Green shading indicates required information you must provide										
Total System requirements (PSI)										43.64
Available System Pressure (PSI)										43.00
Town of Castle Rock provides a minimum of 43 psi										
Total irrigated area for t	tap #			is		sq. ft.				