

Project: Thornton Industrial
Project Number:
City: Casa Grande
Date: 3/30/2023

Domestic Demand Summary per AWC Guidelines

Building	Land Use	Building Area	Building Area	Average Day Demand (gpd/acre)	Average Day Demand (ADD)	Average Day Demand (ADD)	Max Day Demand (MDD) (ADD*2.0)	Max Day Demand (MDD) (ADD*2.0)	Peak Hour Demand (PHD) (ADD*3.0)	Peak Hour Demand (PHD) (ADD*3.0)
		(SF)	Acre		(gal/unit/day)	(gal/min)	(gal/day)	(gal/min)	(gal/day)	(gal/min)
1	Industrial	113,248	2.60	1,800	4,680	3.25	9,359	6.5	14,039	9.7
2	Industrial	129,784	2.98	1,800	5,363	3.72	10,726	7.4	16,089	11.2
3	Industrial	255,104	5.86	1,800	10,541	7.32	21,083	14.6	31,624	22.0
--	Landscape	200,000	4.59	1,170	5,372	3.73	10,744	7.5	16,116	11.2
Total		698,136	16.03		25,956	18.03	51,912	36.1	77,868	54.1

Fire Flow Summary - III-B

ID	Construction Type	Building Area (SF)	Minimum Req'd Fire Flow for Buildings Table B105.1	Minimum Req'd Fire Flow for Buildings w/50% Reduction (gpm)	Available Fire Flow at 20 psi (gpm)	Sprinkler Reduction Required	Building Sprinklered
Building 1	III-B	113,248	7,250	3,625			
Building 2	III-B	129,784	7,750	3,875			
Building 3	III-B	255,104	8,000	4,000			
Hose Demand							
Sprinkler Demand							
Max Fire Flow Required:				4,000			