



**CITY OF SPOKANE WATER AND SEWER
PRELIMINARY USE CALCULATIONS**

PROJECT 21-3109
 NAME LENNAR - BEARD ADDITION
 DATE 4/14/2023
 ENGR TRW

WATER

CITY WATER ANTICIPATED USE CALCULATIONS ADD/MDD/PHD
 GALLONS PER DAY (GPD)

# OF UNITS	199.0					
	261.0	GALLONS PER CAPITA PER DAY				
	2.5	CAPITA PER UNIT				
	129,847.5	AVERAGE DAILY DEMAND (GPD) (ADD)				
	2.6	FACTOR FOR MAXIMUM DAILY DEMAND (GPD)(MDD)				
	337,603.5	MAXIMUM DAY DEMAND (GPD)(MDD)				
	1.7	FACTOR FOR PEAK HOUR DEMAND (GPD)(PHD)				
	573,926.0	PEAK HOUR DEMAND (GPD)(PHD)				

CITY WATER ANTICIPATED USE CALCULATIONS ADD/MDD/PHD
 GALLONS PER MINUTE (GPM) NOTE 1440= 24HR/DAY X 60MIN/HR

ADD	90.2	GPM
MDD	234.4	GPM
PHD	398.6	GPM



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SEWER

CITY SEWER ANTICIPATED USE CALCULATIONS ADD/MDD/PHD
 GALLONS PER DAY (GPD)

# OF UNITS	199.0					
	100.0	GALLONS PER CAPITA PER DAY				
	2.5	CAPITA PER UNIT				
	49,750.0	CAPITA FLOW W/O PEAKING FACTOR (GPD)				
	497.5	POPULATION SEE TABLE BELOW FOR FACTOR				
	3.0	PEAKING FACTOR, SEE TABLE BELOW				
	149,250.0	PEAK FLOW (GPD)				

CITY WATER ANTICIPATED USE CALCULATIONS ADD/MDD/PHD
 GALLONS PER MINUTE (GPM) NOTE 1440= 24HR/DAY X 60MIN/HR

W/O	34.5	GPM
PEAK	103.6	GPM

Population	Peak Factor
0 to 300	3.5
300 to 400	3.0
400 to 1,000	2.5
1,000 to 4,000	2.0
4,000 to 70,000	1.5