

## 5220 Wisconsin Potable Water, Sanitary Sewage and Storm Water Estimates<sup>1</sup>

### **Estimate of daily quantity of potable water required<sup>2</sup>**

Residential Use (60 gallons per person per day) X (108 Residents) = 6,480 GAL

Retail Use (400 gallons per toilet room) X (4 toilet rooms) = 1,600 GAL

Estimate of total quantity of potable water per day **8,080 GAL**

### **Estimated quantity of sanitary sewage**

Assumes same quantity as for potable water quantity **8,080 GAL<sup>3</sup>**

### **Estimated quantity of storm water run-off**

Building footprint area / 24 3<sup>4</sup>

(22,500 SF<sup>5</sup>) / (24 3) = **926 GAL per minute**

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<sup>1</sup> Estimates are all preliminary and are subject to more specific mechanical and plumbing engineering design

<sup>2</sup> From BOCA National Plumbing Code – Appendix E Table E-4A

<sup>3</sup> Conservative estimate, assumes no reduction for HVAC system evaporation

<sup>4</sup> Factor assumes local rainfall rate of 3.2 inches per hour from BOCA National Plumbing Code – Appendix D

<sup>5</sup> Conservative estimate, assumes no reduction for portions of roof which are green roof material and provide storm water retention