



April 18, 2024

Town of Prescott Valley
Public Works Department
(928) 759-3079

Re: Brakes Plus Water Summary, Prescott Valley, Arizona

The proposed Brakes Plus (BP) project is located in the southwest part of Prescott Valley, Arizona, covering a portion of Section 14 of Township 14 North, Range 01 West of the Gila and Salt River Base & Meridian. The project is a development of vacant lot within the existing shopping center located at the southwest corner of Glassford Hill Road and Centre Court. The site is located on Yavapai Assessor's Parcel Number 103-02-762M, and it is 1.49 acres in size.

The BP lot is located within pressure zone 12, based on a Town of Prescott Valley Pressure Zone Schematic, which shows service from elevation 5160 to 5060 in elevation. Zone 12 is set by PRV #12, located at Kokopelli and shows an outlet pressure of 57 psi at an elevation of 5180. This translate to a hydraulic grade of 5311 feet. The proposed finished floor of the BP facility is at 5162.3 feet which means the static pressure will be 64.6 psi. The shopping center has existing fire hydrants and water services stub to the site. Based on the relatively low flows a standard one inch or half inch water meter can service the site. The design flow for the restaurant is calculated using ADEQ R18-9 Table 1 (attached) and are as follows:

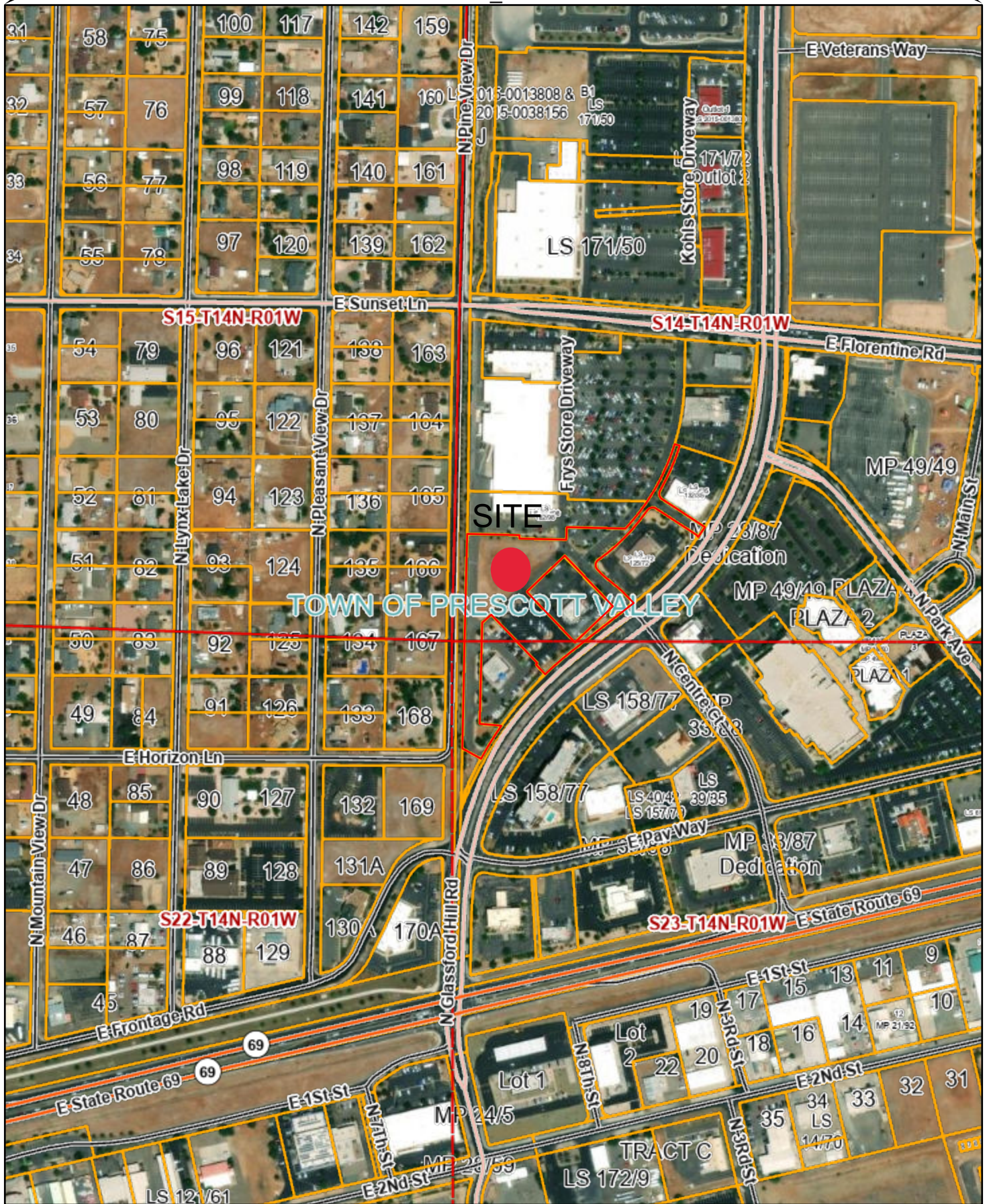
| Wastewater Source | Applicable Unit | Unit Design Flow | Quantity | Design Flow (GPD) | Peak Design Flow (3xdesign) | Flow (gpm) |
|-------------------|---------------------|------------------|----------|-------------------|-----------------------------|-------------|
| Service Station | 1 st Bay | 1000 | 1 | 1,000 | 3,000.00 | 2.08 |
| With Toilet | Each Add. Bay | 500 | 7 | 3,500 | 10,500.00 | 7.29 |
| | | | | | | |
| Total | | | 8 | 4,500.00 | 13,500.00 | 9.37 |

The peak design flow for the proposed restaurant will be 13,500 gallons per day or 9.4 gallons per minute.

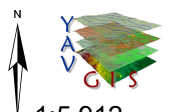
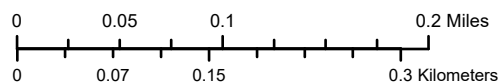
Respectfully Submitted,
Lyon Engineering



Scott A. Lyon, P.E.
President


Disclaimer:

Map and parcel information is believed to be accurate but accuracy is not guaranteed. No portion of the information should be considered to be, or used as, a legal document. The information is provided subject to the express condition that the user knowingly waives any and all claims for damages against Yavapai County that may arise from the use of this data.



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