# **WATER STATEMENT**

SCOTTSDALE

SCOTTSDALE

ACCEPTED AS NOTED

FOR A DOMESTIC WATER and FIRE LINE SERVING

7474 E.PINNACLE PEAK ROAD

SCOTTSDALE, AZ 85260

APN #212-05-531

Provide Basis of Design information, including but not limited to, domestic and fire flow demands per DSPM 6-1.200, 6-1.20, Figure 6-1.2, 6-1.402, 6-1.404, 6-1.405, 6-1.406, 6-1.413, 6-1.414, 6-1.415, 6-1.416, 6-1.419, 6-1.501, 6-1.502, 6-1.507.

PINNACLE PEAK

## "PET RESORT"

Plan Check # QS #45-45



Prepared By

### KEOGH ENGINEERING, INC.

650 N. 137<sup>TH</sup> Avenue Suite 110 Goodyear, Arizona 85338

Job No. 22270

February 2023

### **Basis of Design Report**

The purpose of this report is to provide justification for the connection of domestic water and fire line service serving the Pinnacle Peak Pet Resort. The City of Scottsdale Building Department requires that "Pinnacle Peak Pet Resort" domestic and fire line tie into the existing 2" Dom. And 4" Fire line located at the north property line of this site (see the Water Exhibit).

The subject site is located at the northwest corner of the intersection of Los Portones Drive and Pinnacle Peal Road and a part of the "Pinnacle Peak Office Park" in the City of Scottsdale.

Water QS #45-45 was analyzed for existing sewer facilities in the area (see Water Exhibit).

Demonstrate there is adequate flow and pressures for all four model

6-1.202 for this project. Use

square footages of combined first

All new construction will cor Different owners. Scottsdale and M scenarios described in DSPM

### **Design Statement:**

The site is included and a part of the overall existing water system and second floor in calculating fire demand per DSPM 6-1.501.

"Pinnacle Peak Office Park". It is assumed that "Pinnacle Peak Pet Resort" site.

This project will connect to an existing 2"domestic and 4" fire line located at the north property line of this site. The site will also provide 2" domestic and 4" fire line back flow preventers (see the Water Exhibit).

Per the Fire Flow Test there is a static pressure of 72 p.s.i. See Fire Flow Test dated 2-16-23

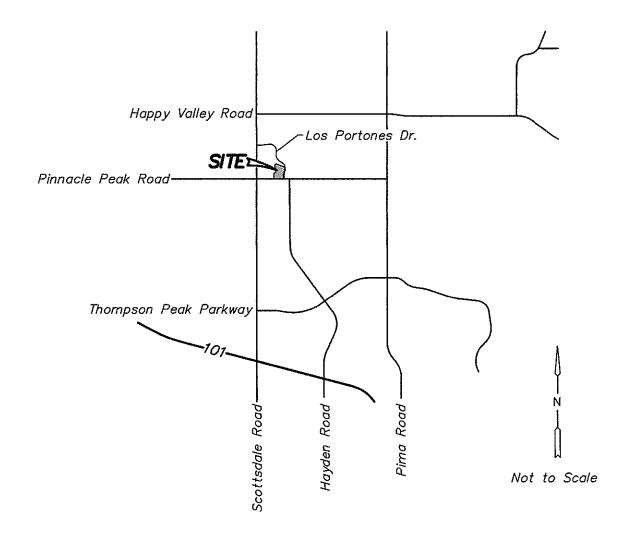
## **ESTIMATED QUATITIES:**

100 L.F. - 2" Domestic Water Service

1 Ea. - 2" Back Flow Preventer

100 L.F. - 4" Fire line

1 Ea. – 4" Back Flow Preventer



# Keogh Engineering, Inc.

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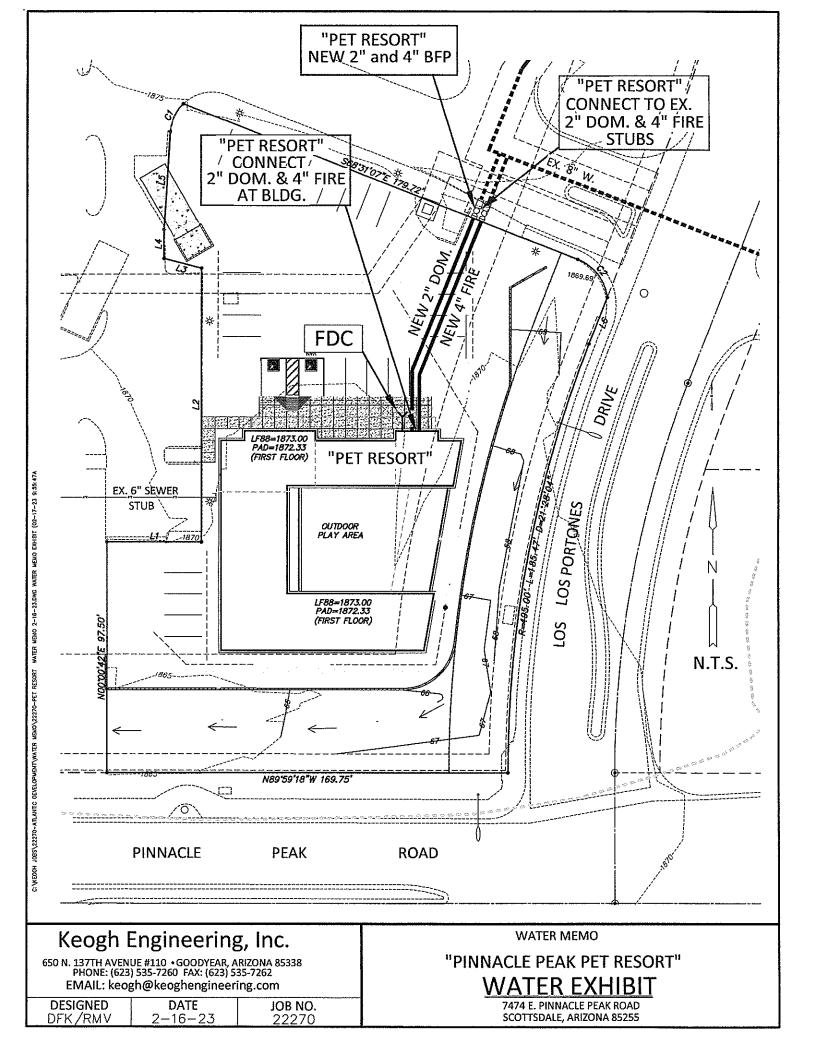
 DESIGNED
 DATE
 JOB NO.

 DFK /RMV
 2-17-23
 22270

**BASIS OF DESIGN** 

PINNACLE PEAK PET RESORT

7474 E. PINNACLE PEAK ROAD SCOTTSDALE, ARIZONA 85255



# **Arizona Flow Testing LLC**

### HYDRANT FLOW TEST REPORT

Project Name:

Not Provided

Project Address:

7474 East Pinnacle Peak Road, Scottsdale, Arizona, 85255

Client Project No.:

Not Provided

Arizona Flow Testing Project No.:

23092

Flow Test Permit No.:

C71323

Date and time flow test conducted:

February 6, 2023 at 7:00 AM

Data is current and reliable until:

August 6, 2023

Conducted by:

Floyd Vaughan-Az Flow Testing, LLC (480-250-8154)

Static Pressure:

Residual Pressure:

Main size: Not Provided

Witnessed by:

Sonny Schreiner - City of Scottsdale-Inspector (602-819-7718)

Data with 20 PSI Safety Factor

(Measured in pounds per square inch)

(Measured in pounds per square inch)

Approx. distance between hydrants: 340 Feet

20.0 PSI

#### **Raw Test Data**

Static Pressure:

92.0 PSI

(Measured in pounds per square inch)

Residual Pressure:

40.0 PSI

(Measured in pounds per square inch)

Pitot Pressure:

17.0 PSI

(Measured in pounds per square inch)

+

Diffuser Orifice Diameter: One 4-inch Pollard Diffuser

(Measured in inches)

Coefficient of Diffuser: 0.9

Flowing GPM:

1,772 GPM

(Measured in gallons per minute)

Flowing GPM:

1,772 GPM

Scottsdale requires a

maximum Static

Pressure of 72 PSI for

AFES Design.

GPM @ 20 PSI:

2,112 GPM

GPM @ 20 PSI:

1,772 GPM

### Flow Test Location

North

