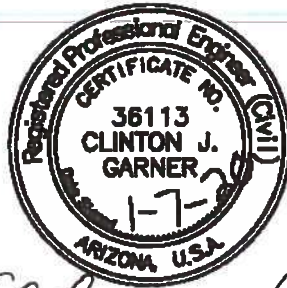




GarnerGroup

engineering

Water Report for
Ocean Blue Express Carwash
3163 Willow Creek Road
B1906-028
(GGE Job # 19-069)



Clinton J. Garner

January 7, 2020

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WATER DESIGN REPORT
OCEAN BLUE EXPRESS CARWASH
GGE JOB # 19-069
January 2020

Summary

Ocean Blue Express Carwash is a proposed automated carwash located near the southwest corner of Willow Creek Road and Willow Lake Road in Prescott, Arizona (APN 106-20-497 & 498). The project is located in a portion of the north half of Section 15, Township 14 North, Range 2 West of the Gila and Salt River Base and Meridian, Yavapai County, Arizona. The site is zoned PAD.

Introduction

Ocean Blue Express Carwash is a proposed automated carwash located on Lots 1 and 2 of Replat of Lakeview Plaza as recorded in Document 2014-0003538. Project owner is Ocean Blue Willow Creek, LLC.

Purpose of Report

Purpose of report is to provide water design criteria for new carwash.

Existing Water System Conditions

There is an existing 8" water line located in the existing paved road to the south of the site. An existing stub 6" is provided to this site near the southwest corner for fire protection. Domestic water will connect to the existing 8" line via an existing service line stubbed to the site.

Proposed Water System Conditions

New fire line will connect to the existing stub. New domestic will connect to the existing water on the south side of the project.

Design Criteria

Demands have been determined from another Ocean Blue Express Carwash in Prescott. The carwash is located at 1310 Iron Springs Road, APN 115-05-068P. A summary of the monthly demands for that carwash is included with the report. Based upon that summary, the average daily use is 15800 gallons per day. The following peaking factors will be used:

Maximum Daily Demand Peaking Factor = 1.65
Peak Hour Demand Peaking Factor = 3.17

Based upon those values, Ocean Blue Express Carwash will have the following water demand:

Maximum Daily Demand = 15800 GPD x 1.65 = 26070 GPD
Peak Hour Demand = 15800 GPD x 3.17 = 50086 GPD