Burger King Store

16130 NW U.S. Highway 441, Alachua, FL

NFPA FIRE FLOW CALCULATIONS

(1/30/2020)

Applicable Building Spec:	Type V(000) Construction, 3,349 sq.ft.
Required Fire Flow:	1500 GPM per Table 18.4.5.2.1, NFPA 1, 2018 Edition
Nearest Hydrant:	Existing hydrant (NW 62nd Lane near SE property corner) is less than 200 feet from building, meeting Section 18.5.3(1) of NFPA 1.
Additional Hydrants:	1. NW 62nd Lane, less than 600 feet west of the site. 2. U.S. 441 near NE property corner. These meet Section 18.5.4.2, NFPA 1
Maximum Hydrant Flow:	1500 gpm (max) from nearest hydrant, Table 18.5.4.3 of NFPA 1
Available Hydrant Flow:	Additional hydrant No. 1 above: 993 gpm @ 60 psi residual (per attached test). Nearest Hydrant and Additional hydrant No. 2: No flow test available at this time.
Total Available Flow:	It is expected that the other hydrants, particularly the "nearest" hydrant will match the flow of the tested hydrant as it is on the same main and is upstream of the tested hydrant, therefore the available flow will well exceed the required 1500 gpm.

H. DUANE MILFORD
LICENSE
No. 42657
STATE OF FLORIDA
PROFESSIONAL ENGINEER

H. Duane Milford, PE

Digitally signed by H. Duane Milford, PE
Date: 2020.01.30 10:15:55 -05'00'

Prepared by: H. Duane Milford, P.E.
MPH Civil Consultants, Inc.

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY H. DUANE MILFORD ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

W.W. GAY FIRE & INTEGRATED SYSTEMS, INC.
522 STOCKTON STREET • JACKSONVILLE, FL 32204 • PHONE 904-387-7973 • WWW.WWGFP.COM

FIRE HYDRANT FLOW TEST DATA

Company: Quality Dining

Address: 3018 US Hwy 301 N Suite 100
Tampa, FL 33619

Contact:
Name/Title: Trevor Gregory
Phone #: 813-909-5406

Hydrant Location:
(#1) Residual Hydrant: old 441 hwy across from America Best Inn
Hydrant Location:
(#2) Flowed Hydrant: old 441 Hwy across from Holiday Inn

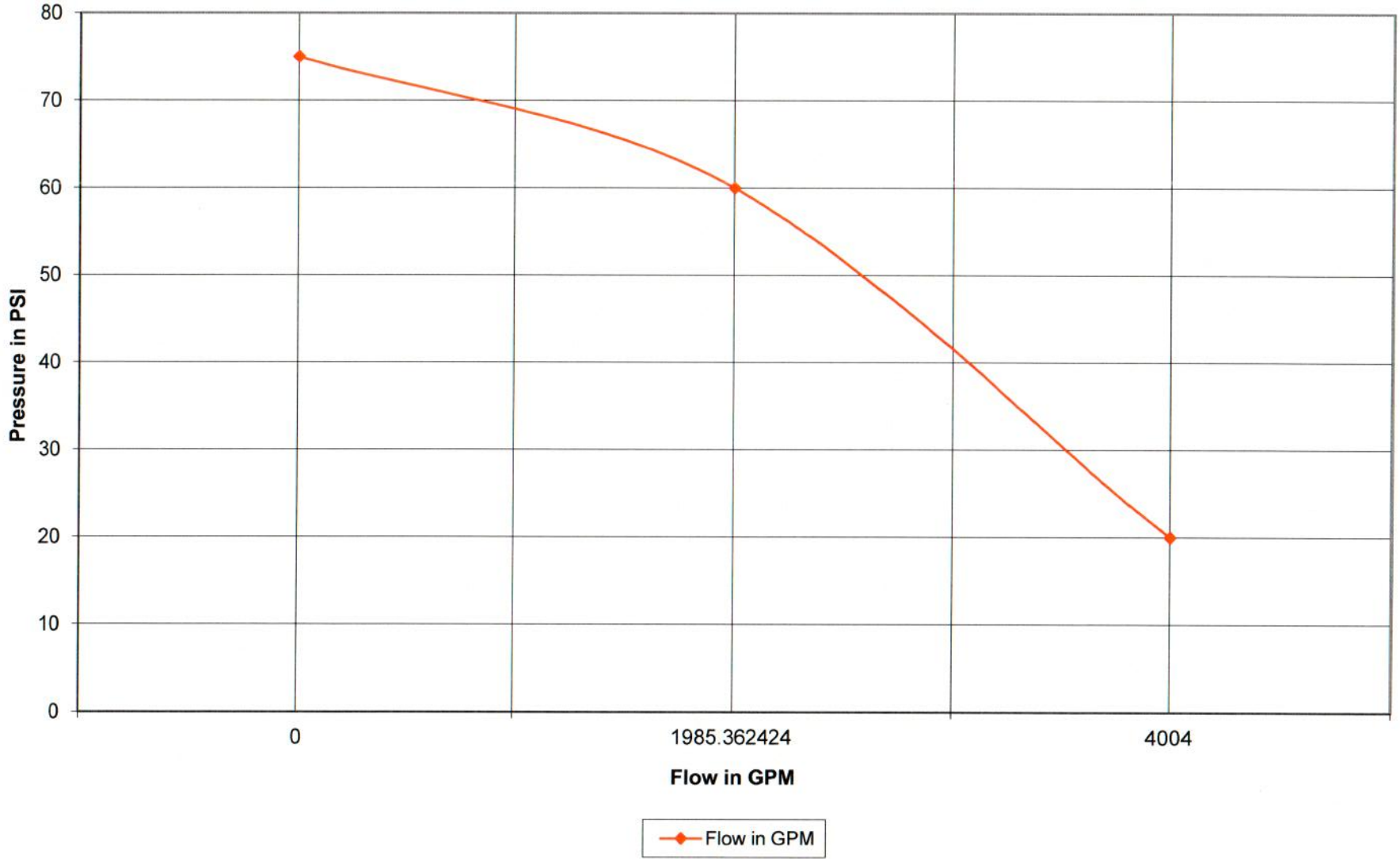
Testing:
Year: 2020 **Date:** 1/29/2020
Technician: Jerry Gentry **Time:** 9:00 AM

RESULTS

(#1) Residual Hydrant:
Static: 75 PSI
Residual: 60 PSI

(#2) Flowed Hydrant / Hydrants:

Pito:	1	35 PSI	2	35 PSI
Flow:	1	993 GPM	2	993 GPM

Hydrant Flow At 20 PSI: 4004 GPM

Quality Dining/Burger King Hydrant Flow Test