



Project: 2400 E Atlantic - Portman Holdings	Date:
Project No. 14267.00	4/16/2025
Computed by: CD	Page:
Checked by: NW	1

COMPUTING WORKSHEET

Summary of required Fire Flow

1. Site Data

Structure	Bldg Area	Fire Flow Area
Building A		
Residential Building	631,656 SF	334,461 SF (Max. with 1 hr rated fire wall separation)

Building Extension

Type of Construction - II(222) - from NFPA 220

2. Determine Required Fire Flow per Florida Fire Prevention Code (NFPA 1 as amended) (Sprinkled Building)

Building 1

Required Fire Flow (RFF) = **6,000** gpm@ 20 PSI per NFPA 1 Ch 18 table 18.4.5.1.2

Duration = **4** Hours

3. Determine Required Fire Flow per Florida Fire Prevention Code (NFPA 1 as amended) (For NFPA compliant Automatic Sprinkled Building)

Building 1

Sprinkled Bldg Required Fire Flow reduce RFF by 75% =

1500 gpm @ 20 PSI

Minimum Required Flow for Sprinkled Bldg =

1000 gpm @ 20 PSI

USE **1,000.00** gpm

Minimum Required Flow for Quick Response Heads =

600 gpm @ 20 PSI

USE **600** gpm

Total Required Fire Flow

1,000.00 gpm

4. Determine Available Flow from Flow Test

Total Flow at 20 psi using test data Residual Pressure

FH

6,294 gpm

Total Available Flow @ 20 psi

6,294 gpm

Exceeds Required Fire Flow (RFF)

Available flow exceeds Required Fire Flow unsprinkled building

Total Flow at 20 psi with Design System Residual Pressure Adjusted to 50 psi

FH

4,329 gpm

Total Available Flow @ 50 psi Static

4,329 gpm

Exceeds Sprinkled Bldg RFF

Available flow exceeds Required Fire Flow for sprinkled Building