



Project: 2400 E Atlantic - Portman Holdings	Date:
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Computed by: CD	Page:
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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

AAC