



Project: Pompano Townhomes	Date:
Project No. 12411.00	2/28/2023
Computed by: NW	Page:
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**COMPUTING WORKSHEET**

**Summary of Required Fire Flow**

**1. Site Data**

Structure	Bldg Floor Area	Fire Flow Area
<b>North Building</b>		
Residential	7,868 SF	7,868 SF (Max. with 1 hr rated fire wall separation)
<b>South Building</b>		
Residential	11,529 SF	11,529 SF (Max. with 1 hr rated fire wall separation)

**North & South Building**

Type of Construction - III(200) - from NFPA 220; Unprotected Ordinary

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

**North Building**

Required Fire Flow (RFF) = **1,750 gpm @ 20 PSI** per NFPA 1 Ch 18 table 18.4.5.1.2  
 Duration = **2 Hours**

**South Building**

Required Fire Flow (RFF) = **2,250 gpm @ 20 PSI** per NFPA 1 Ch 18 table 18.4.5.1.2  
 Duration = **2 Hours**

**3. Determine Required Fire Flow per Florida Fire Prevention Code (NFPA 1 as amended)**

**Building A**

Unsprinkled Bldg (No Fire Flow Reduction) = **1,750 gpm @ 20 PSI**

**Building B-1**

Unsprinkled Bldg (No Fire Flow Reduction) = **2,250 gpm @ 20 PSI**

Controlling Required Fire Flow **2250 gpm**

**4. Determine Available Flow from Flow Test**

Total Flow at 20 psi using test data Residual Pressure

FH **7,518 gpm**

**Total Available Flow @ Test Static (79 psi) 7,518 gpm**

**Available flow exceeds Required Fire Flow Unsprinkled Building**

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

FH **5,218 gpm**

**Total Available Flow @ 50 psi Static 5,218 gpm**

**Available flow exceeds Required Fire Flow for Unsprinkled Building**

**DRC**