



## Memo

To: Jay Parker, AICP, CFM Principle Planner  
From: Nicole Pattie, PE  
CC: Molly Titus, PE  
Date: 5/20/2024  
Re: 571 Main Street, South Kingstown, RI Fire Flow

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The proposed development consists of 32 residential units as a mix of two-family and four-family buildings. The dwellings are not proposed to be sprinklered.

Based on the NFPA 1 Fire Flow Handbook Section 18.4 Fire Flow Requirements for Buildings, the required fire flow for the project is:

Section 18.4.5.1 – One- and Two-Family Dwellings Not Exceeding 5,000 sf

18.4.5.1.1 The minimum fire flow and flow duration requirements for one- and two-family dwellings having a fire flow area that does not exceed 5,000 sf shall be 1,000 gpm for 1 hour.

The project does not qualify for fire flow reduction for building separation. Buildings must be greater than 30 feet apart to be permitted fire flow reduction of 25%. As proposed, multiple buildings are separated by 18 feet, with none meeting the greater than 30 feet. While the project does meet the separation distance, Section 18.4.5.1.4.4 states: Where multiple buildings are located on a single lot and abut a lot line, the building separation distance for determining fire flow reduction shall be the smallest of the two distances.