



## **NORTHCREST SITE – OPTION STATISTICS**

## **Report CAOFS21-004 - Appendix A**

SITE AREA: 5.22 acres  
DEVELOPMENT AREA: approximately 1 acre  
SITE COVERAGE: 19%

The Northcrest Arena site is very narrow, which presents challenges given the required orientation of the fire station and the need for drive-through bays. There are also challenges given that due to a year-round ice surface in the building, there will be permafrost under the building that will need time to thaw following demolition. In this option, the development is in the location of Northcrest Arena and its parking lot. The proposed building would be located near the front of the arena footprint, which should help mitigate the impacts of the permafrost.

### **RESPONSE TIMES FOR THIS OPTION:**

INITIAL ARRIVING COMPANY – 4 FIREFIGHTERS IN 4 MINUTES OF TRAVEL TIME, TO 90% OF INCIDENTS:

75.8% HISTORIC CALLS COVERED (increase from 71.9% with existing station)  
39.3% MUNICIPAL AREA COVERED (increase from 38.8% with existing station)  
47.5% ROAD LENGTH COVERED (increase from 45.3% with existing station)

SECOND ARRIVING COMPANY – 8 FIREFIGHTERS IN 6 MINUTES OF TRAVEL TIME, TO 90% OF INCIDENTS:

69.6% HISTORIC CALLS COVERED (increase from 54.5% with existing station)  
27.8% MUNICIPAL AREA COVERED (increase from 22.6% with existing station)  
39.7% ROAD LENGTH COVERED (increase from 32.0% with existing station)

SINGLE-FAMILY DWELLING INITIAL FULL ALARM ASSIGNMENT – 16 FIREFIGHTERS IN 8 MINUTES OF TRAVEL TIME, TO 90% OF INCIDENTS:

**\*\*The department currently operates in a three station model, and current minimum staffing of 15 firefighters on duty means that they are currently unable to achieve the benchmark of 16 firefighters on a regular basis. The percentages below for scenarios of 15 firefighters in 8 minutes of travel time for reference purposes only and are not comparable to response coverage in a four station model with minimum staffing in excess of 16 firefighters.\*\***

38.9% HISTORIC CALLS COVERED (increase from 20.5% with existing station)  
10.1% MUNICIPAL AREA COVERED (increase from 4.1% with existing station)  
17.4% ROAD LENGTH COVERED (increase from 8.2% with existing station)



