

DRONE INSPECTIONS



GRS recently completed a significant project at a school campus in Massachusetts. This project involved detailed inspections of the three buildings, each varying in size and scope. By utilizing advanced drone technology, GRS was able to provide solutions for both roofing and masonry repairs in a timely, cost-effective manner.

Challenges

The main challenge at the school was conducting thorough roof inspections across multiple buildings without disrupting campus activities. Traditional inspection methods, which require lifts and physical presence on the roof, are often costly and labor intensive. For a project of this scope, traditional methods would have been inefficient.



Aerial Drone Imagery of the Teaching Laboratory



Aerial Drone Imagery of the Small (front) & Large (back) Buildings

Innovative Solutions

To overcome these challenges, GRS deployed drones for the inspections. Drones provided a flexible and efficient way to capture highly detailed images of the entire building exteriors without interrupting daily campus operations. Our inspectors were then able to identify leaks and necessary repairs directly from the drone-captured images, eliminating the need for physically maneuvering around the buildings.

Key Findings

The drone inspections at the school revealed several critical repairs needed across the three buildings:

- **Small Building:** Issues identified included sealer failures, caulk failures, missing patches, clogged drains, puddling, and abandoned roof penetrations.
- **Large Building:** In addition to similar issues found at the small building, the large building had uncured flashings, wall termination problems, damaged edge metal, and multiple punctures.
- **Lab Building:** Despite its 20-year-old roof, this building was in better condition than anticipated, with only minor rust and leaks around the exhaust pipe stacks.



Split Base Flashing on the Teaching Laboratory

Thanks to the efficiency of drone inspections, GRS was able to quickly start repairs and even perform an additional inspection on the administration building which has nearly impossible roof access points. This inspection uncovered significant masonry and waterproofing issues, including cracked slate and large holes in roof valleys—problems that would have been difficult to detect from the ground.



Aerial Drone Imagery of the Small Building



Aerial Drone Imagery of the Administration Building

Conclusion

The successful completion of the school project underscores GRS as a valued and professional partner. Our ability to combine years of industry expertise with innovative solutions, such as drone technology, allows us to address complex challenges efficiently and effectively. By delivering high-quality, long-lasting results, GRS has strengthened our partnership with the school and reinforced our role as a trusted resource for their ongoing roofing, waterproofing, and masonry needs.

Contact us for your drone inspection today!
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