



CASE STUDY

ENHANCING THE DEPARTMENT OF PUBLIC WORKS FACILITY WITH A CUSTOM FABRIC STRUCTURE



Customer Overview

The Department of Public Works (DPW) in Middleborough, Massachusetts, sought to upgrade its facility with a new side entrance. To meet their requirements for durability and flexibility, the department pivoted to a custom-designed fabric structure.



Facilities upgrade



Durability requirements

The Challenge

The project faced several challenges, including aligning the new structure with the facility's hillside location and ensuring it complemented the building's modern design and color scheme. Most critically, the structure needed to withstand Massachusetts' harsh winters, including heavy snow, strong winds, and extreme weather, to ensure safety and durability.

Proposed Solutions

To address these challenges, the project team collaborated with Calhoun Super Structure to design and install a customized fabric structure. NovaShield fabric was chosen for its exceptional durability, UV protection, and weather resistance. A unique dormer design was incorporated above the side entrance to prevent heavy snow buildup, reducing the risk of structural strain or damage. The lightweight yet robust nature of NovaShield allowed for a quicker installation process while maintaining long-term performance.



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Results

The project successfully addressed all challenges and exceeded expectations. The custom fabric structure integrated seamlessly with the hillside location and complemented the DPW facility's modern aesthetic. The dormer design effectively mitigated the risk of snow accumulation, ensuring year-round safety and functionality. NovaShield's translucency provided an added benefit, creating a well-lit environment that reduced the need for artificial lighting, contributing to energy and cost savings. The structure's quick installation and low maintenance requirements further reinforced its value as a practical and durable solution.



**Seamless
integration**



**Modern
aesthetic**



**Low maintenance
solution**



“Cost-efficient with a shorter installation timeframe than traditional wood or metal buildings, the VP structure met the town's design and function needs.”

Conclusion

The Middleborough DPW's decision to adopt a custom fabric structure proved to be a transformative solution. By leveraging NovaShield's superior performance and innovative design features, the project successfully met all functional, aesthetic, and environmental requirements. This case demonstrates the potential of fabric structures as a versatile alternative to traditional construction methods, particularly in challenging environments.

To learn more about Calhoun Super Structure, visit <https://calhounsuperstructure.com/>