



SWIFTDRAIN GRP TRENCH DRAIN SYSTEM

for the MacArthur Airport Hangar
at Mid Atlantic Airport



INTRODUCTION

This case study highlights the successful implementation of SwiftDrain's GRP trench drain system for the MacArthur Airport Hangar at Mid Atlantic Airport.

The project involved the installation of a heavy-duty trench drain system spanning 120 linear feet, with 8 inches width and a class F airport rating.

SwiftDrain provided valuable support by offering installation assistance, detailed shop drawings, and a customized catch basin system with cast iron framing. The project was carried out by West Rac Construction.

PROJECT BACKGROUND

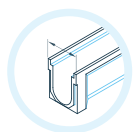
The MacArthur Airport Hangar required a reliable and robust trench drain system to effectively manage water drainage and ensure a safe environment.

SwiftDrain's GRP trench drain system was selected for its durability, load-bearing capacity, and resistance to chemicals and environmental conditions.

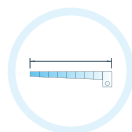
SwiftDrain's GRP Trench Drain System:

SwiftDrain's trench drain system is constructed using GRP, a composite material known for its strength, corrosion resistance, and longevity. The 8-inch wide trench drains were specifically designed to meet the demanding requirements of airport environments, adhering to class F airport rating standards for optimal performance and safety.

TRENCH DRAIN SYSTEM SPECIFICATIONS



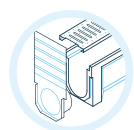
TRENCH DRAIN WIDTH
8 inches



LENGTH
120 linear feet



MATERIAL
GRP



CATCH BASIN
Custom 48" x 48"
catch basin system



GRATES
Class F locking
ductile iron grates

PROJECT SCOPE

The project involved the installation of a 8-inch wide heavy-duty class F airport-rated trench drain system, covering a total length of 120 linear feet.

Swift drain provided comprehensive support throughout the installation process, including expert guidance and detailed shop drawings. Additionally, a customized 48" x 48" catch basin system with cast iron framing was seamlessly integrated into the trench drain.

CONTRACTOR COLLABORATION

West Rac Construction, a Long Island construction company experienced in commercial projects, was selected as the contractor for the MacArthur Airport Hangar project.

Swift drain collaborated closely with West Rac Construction, ensuring effective communication and coordination to achieve successful installation of the trench drain system.

INSTALLATION PROCESS

Swift drain's team provided on-site installation assistance, ensuring the proper installation of the trench drain system. They worked closely with West Rac Construction, sharing their expertise and offering guidance throughout the process.

The detailed shop drawings provided by Swift drain facilitated accurate placement of the trench drains.

CUSTOM CATCH BASIN SYSTEM

As part of the project, Swift drain supplied a customized 48" x 48" catch basin system with cast iron framing, designed to seamlessly integrate with the trench drain system.

This customized solution enhanced the overall functionality and efficiency of the drainage system within the hangar.

BENEFITS AND RESULTS

The implementation of Swift drain's GRP trench drain system provided several benefits to the MacArthur Airport Hangar:

DURABILITY AND RELIABILITY

The trench drain system made of GRP demonstrated exceptional durability, withstanding Class F heavy loads and the constant traffic associated with airport operations.

CHEMICAL RESISTANCE

The GRP material exhibited excellent resistance to chemicals, making it well-suited for an airport environment where fuel spills and other contaminants are common.

LONGEVITY AND LOW MAINTENANCE

GRP's longevity resulted in reduced maintenance costs over time. The robust construction of the trench drain system ensured a long lifespan, minimizing the need for frequent replacements.

CUSTOMIZED SOLUTION

The provision of a customized catch basin system that seamlessly integrated with the trench drain showcased Swift drain's ability to deliver tailored solutions to meet specific project requirements.

CONCLUSION

Swift drain's GRP trench drain system proved to be a reliable and effective solution for the MacArthur Airport Hangar project at Mid Atlantic Airport.

The installation of the heavy-duty trench drain system, along with the customized catch basin system, successfully

addressed the project's drainage needs while meeting the rigorous site conditions and weight load requirements of an airport environment.

Through collaboration with West Rac Construction, Swift drain ensured the seamless implementation of the system, resulting in an effective long term drainage solution.