



SWIFTDRAIN PROVIDES A 12-INCH WIDE FIBER Reinforced Concrete Trench Drain System for Southern Company

INTRODUCTION

Southern Company, located in Alabama, required a heavy-duty outdoor trench drain system for one of its operational warehouses.

GA West, a contractor, approached Swift Drain for a heavy duty trench drain solution.

Swift Drain provided a 12-inch wide fiber reinforced concrete trench drain system with heavy-duty ductile iron grates, specifically designed for load class E applications.

This case study outlines Swift Drain's involvement in the project, including the design, shop drawings, and on-site modifications.

CLIENT REQUIREMENTS AND CHALLENGES

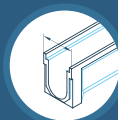
The client, Southern Company, needed a robust trench drain system that could withstand heavy loads and effectively manage water runoff in their warehouse area. The project presented several challenges, including the need for a custom invert height for the 12-inch pipe outlet and a pre-sloped channel of approximately 147 linear feet.

PRODUCT SELECTION

Swift Drain proposed a 12-inch wide fiber reinforced concrete trench drain system to meet the client's requirements. The use of fiber reinforced concrete ensured the drain's durability and strength, allowing it to withstand heavy loads.

The system was designed for load class E, which is suitable for areas with high wheel loads such as warehouses and industrial facilities.

TRENCH DRAIN SYSTEM SPECIFICATIONS



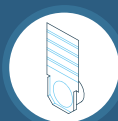
TRENCH DRAIN WIDTH
12 inches



MATERIAL
Fiber reinforced concrete



LENGTH
147 linear feet



OUTLET
12 inch invert, custom side outlet



GRATES
Class E ductile iron grates
for added strength and longevity



DESIGN AND SHOP DRAWINGS

Swift drain's engineering team collaborated with GA West to create detailed shop drawings for the trench drain system. The drawings incorporated the custom invert height of the 12-inch pipe outlet and provided a clear plan for on-site installation.

The design took into account the specific requirements of Southern Company's warehouse, ensuring efficient drainage and maximum functionality.

Pre-Sloped Channel and Connection

The trench drain system consisted of approximately 147 linear feet of pre-sloped channel at a 0.5% grade. This design facilitated proper water flow towards the outlet, preventing standing water and potential drainage issues.

Swift drain's expertise in pre-sloping technology ensured an effective and efficient drainage solution for the warehouse.

On-Site Modifications and Installation

During the installation process, Swift drain's technical team provided support to GA West to achieve proper installation, specifically the custom invert height of the 12-inch pipe outlet.

The field modification required careful adjustments to ensure a seamless connection and proper water flow from trench drain to pipe.

Swift drain's experts worked closely with the contractor to address any challenges and ensure the trench drain system met the desired specifications.

OUTCOME AND BENEFITS

The collaboration between Swift drain and GA West resulted in a successful installation of the 12-inch wide fiber reinforced concrete trench drain system for Southern Company. The system's heavy-duty ductile iron grates and load class E rating ensured its durability and ability to withstand the demanding conditions of the warehouse.

THE KEY BENEFITS OF SWIFTDRAIN'S SOLUTION INCLUDED:

EFFECTIVE WATER MANAGEMENT

The pre-sloped channel design facilitated efficient drainage, preventing water accumulation and minimizing the risk of water-related damage.

DURABILITY AND STRENGTH

The fiber reinforced concrete construction and heavy-duty ductile iron grates ensured the trench drain system's longevity and ability to withstand heavy loads.

CUSTOMIZATION AND SUPPORT

Swift drain's involvement in the design process and on-site modifications allowed for tailored solutions and seamless integration into the warehouse environment.

CONCLUSION

Swift drain's provision of a 12-inch wide fiber reinforced concrete trench drain system for Southern Company's warehouse in Alabama showcased their expertise in providing robust heavy duty drainage solutions.

Through collaboration with GA West, Swift drain successfully addressed the client's requirements, offering a customized design, shop drawings, and on-site support. The project's outcome demonstrated Swift drain's commitment to delivering durable, efficient, and customized drainage systems for various industrial applications.