

SWM Golf Canada Office

Year of Construction: 2025

Location: Caledon, ON

Product Installed: HydroChain™

Category: Stormwater Management

CASE STUDY

CHALLENGE

A new office development within a golf course required a stormwater management system capable of providing 258m³ of stormwater storage while maximizing valuable site space. With limited room available and a parking lot planned above the installation area, a traditional stormwater pond was not a practical option. The solution needed to effectively manage runoff.

SOLUTION

HydroChain Subsurface Stormwater System was selected to meet the project's storage requirements within the constrained footprint.

SPECIAL NOTE

The HydroChain system incorporated 158 S-29B chambers (847mm layup length x 1569mm wide x 947mm high each) arranged in 11 rows of varying lengths to optimize the available space and accommodate site specific constraints. Manufactured from fiberglass-reinforced polypropylene, the chambers offer exceptional strength, durability, and long-term performance while remaining lightweight and easy to handle. Clear angular stone was placed beneath, between and above the chambers to provide structural support and additional storage capacity. The lightweight, modular chamber design allowed for efficient installation by a six-person crew.

Runoff enters the system through two inlet connections (300mm and 450mm dia.), while a 300mm dia. outlet pipe provides controlled discharge to a nearby ditch during large storm events. The open-bottom chamber design promotes infiltration into the surrounding soils, reducing runoff volumes and enhancing groundwater recharge. By storing stormwater underground, the system preserved valuable land area while delivering a reliable, sustainable stormwater management solution.

