

Atlantis®
GREEN CITIES FOR LIFE

Centre of Justice

Project Location
Santiago, Chile

Atlantis Application

Stormwater Infiltration Channel

Project Overview

The Centre of Justice in Santiago comprises eight glass-and-concrete buildings arranged around a large civic plaza beneath a single ceremonial roof canopy. The site is positioned adjacent to a park, Metro station and public jail, and is bordered by two major boulevards, with two freeways nearby.

An Atlantis Flo-Tank® modular infiltration channel was installed around the building as part of the site's stormwater infrastructure. The system incorporated geotextile-wrapped modules within an excavated trench and was completed in May 2006.

Technical Summary

Project	Centre of Justice
Location	Santiago, Chile
Application	Stormwater Infiltration Channel
Completion	May 2006
Size	--
Surface Use	--
Atlantis System	Flo-Tank®

Design Challenge

The Centre of Justice formed a substantial civic development comprising eight buildings organised around a large central plaza. Its urban context included major surrounding transport and public infrastructure, including two boulevards, a Metro station, an adjacent park and two nearby freeways.

The project required a stormwater infiltration channel around the building, introducing underground stormwater infrastructure into the developed site. The infiltration system required excavation for installation of the Atlantis Flo-Tank® modules and integration of the modular system within the surrounding site.

01 Provide a stormwater infiltration channel around the building.

02 Integrate the infiltration system within a major civic development comprising eight buildings.

03 Install the Atlantis modular system within an excavated trench.

04 Incorporate Atlantis Flo-Tank® modules.

05 Wrap the installed modular infiltration system in geotextile.

06 Accommodate the infiltration infrastructure within the Centre of Justice site in Santiago.

Solution

The stormwater system incorporated Atlantis Flo-Tank® modules to form an infiltration channel around the Centre of Justice building. The modular system was installed within a prepared excavation and wrapped in geotextile as part of the completed infiltration channel configuration.

The resulting underground installation integrated the Atlantis modular system into the site's stormwater infrastructure while maintaining the specified infiltration-channel application around the building.

Benefits

- Dedicated stormwater infiltration channel incorporated around the Centre of Justice building.
- Atlantis Flo-Tank® modular system used for the underground infiltration installation.
- Modular system installed within a prepared excavated trench.
- Geotextile wrapping incorporated around the Atlantis Flo-Tank® system.

Considerations

Installation required excavation and preparation of a trench for the Atlantis Flo-Tank® modules. The modular system was subsequently incorporated within the trench and wrapped in geotextile as part of the infiltration channel construction.

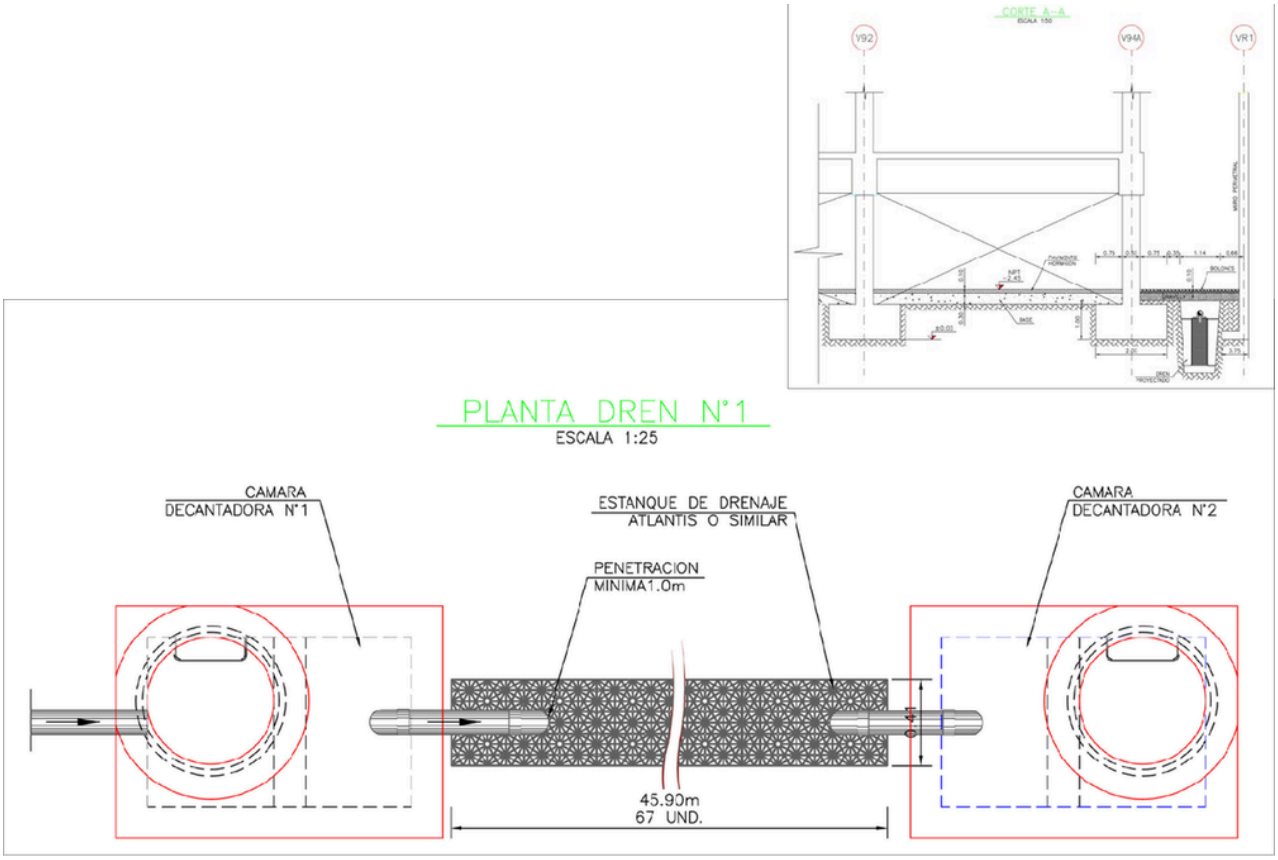
Project Outcomes

- Stormwater infiltration channel installed around the Centre of Justice building.
- Atlantis Flo-Tank® modules incorporated into the underground system.
- Modular infiltration system installed within a prepared excavated trench.
- Atlantis Flo-Tank® system wrapped in geotextile.
- Project completed in May 2006.

The project integrated a modular infiltration channel around a major civic development, using Atlantis Flo-Tank® modules within an excavated, geotextile-wrapped installation. The available technical information establishes the system configuration and application, but does not provide storage capacity, channel dimensions or hydraulic design criteria.

Did You Know?

The Centre of Justice development comprises eight glass-and-concrete buildings arranged around a large civic plaza beneath a single ceremonial roof canopy, with the Atlantis stormwater infiltration channel incorporated around the building.


CORTE A-A
ESCALA 1:50
V9.2
V9.4A
VR1
PLANTA DREN N°1
ESCALA 1:25
CAMARA
DECANTADORA N°1
ESTANQUE DE DRENAJE
ATLANTIS O SIMILAR
CAMARA
DECANTADORA N°2
PENETRACION
MINIMA1.0m
45.90m
67 UND.







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Thank You For Your Attention



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