



THE ENGINEERING BEHIND LANDSCAPE

This presentation is to brief the application of engineering principles and technology involved in landscape.

This would assist while making design and construction of water feature, pool and gardens.

SWIMMING POOL

While designing pool size you need to know the nature of Project keeping the following details in mind.

We handle a wide variety of pools, from a simple lap pool to highly complex projects including infinity edge, linear deck slot, standard deck level overflow and letterbox surface flow – all of which require the inclusion of surface distribution channels and balance tank controls

- ❑ Size of the pool in relation with pool usage
- ❑ Balancing tank location, size, level, access
- ❑ Pump room location, size, level, access
- ❑ Drain location
- ❑ Inlet location
- ❑ Vacuum point detail

SWIMMING POOL

Making sure you understand its function and spend time considering its location, size, access and other features

Location

Ideally, your pool's plantroom should be located with its floor level atleast with the water line:
Ideally, it should be below water level with the pumps always below the pool water level.

There are 2 reasons for this :

First, it will mean the water circulation system will operate most effectively, and

Second, it will need much less suction pipework installation means longer life for equipment.

There will be various limitations on its location, but the basic rule of thumb holds : the deeper the better.

SWIMMING POOL

Size

Exactly how big the plantroom needs to be will depend entirely on the size of the project, but making it as large as possible given the other constraints will be worth it in the long run.

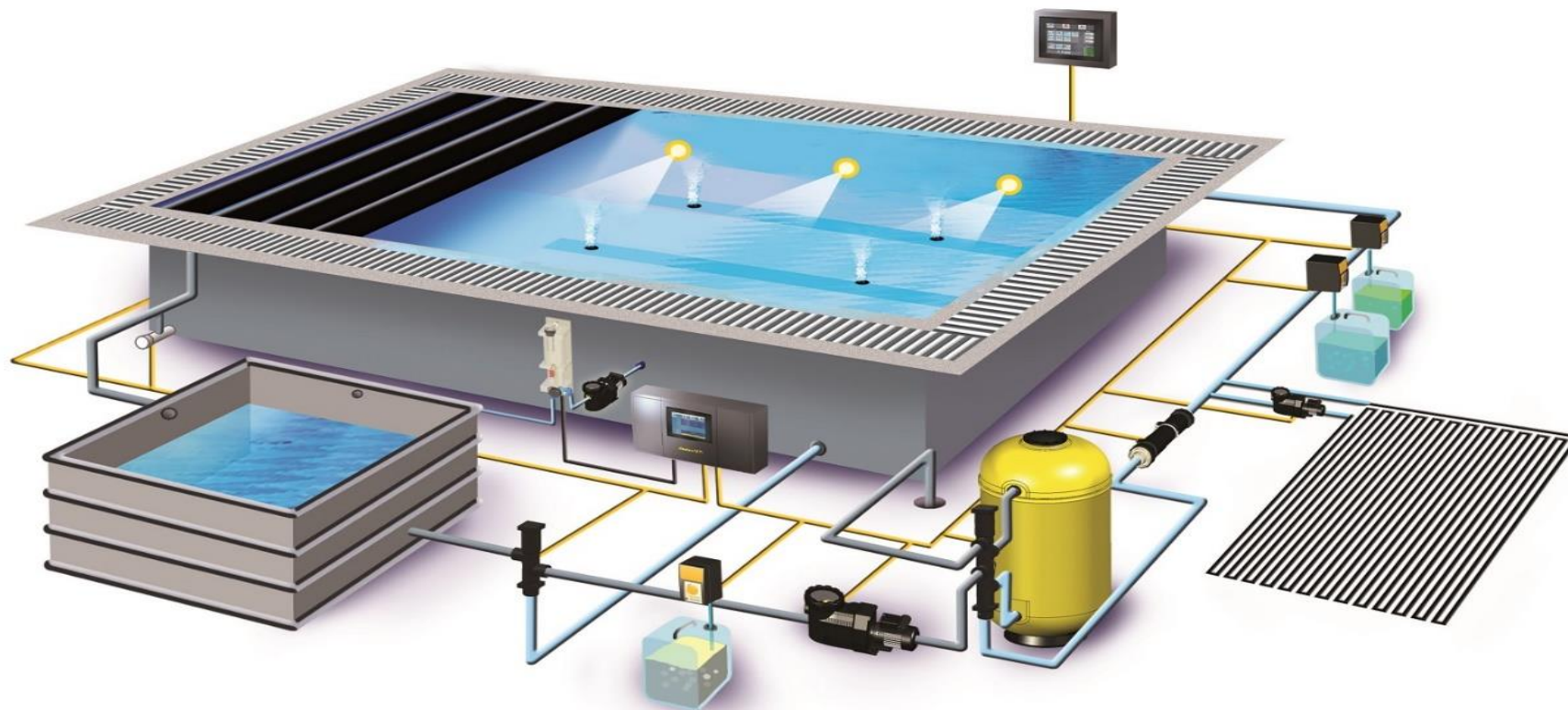
Access

It is very important that the plantroom is easily accessible, as there will be a need for regular maintenance, and you also need to take into account that over time some parts will need to be replaced due to normal wear and tear

Noise Suppression

Some equipment in a pool plantroom can generate noise, so considering ways to suppress or block out that noise from your pool hall is important. Adding a layer of sound insulation around the inside of your plantroom will reduce or eliminate background noise – this is especially useful if we design inside house or office.

WATER CIRCULATION SYSTEM

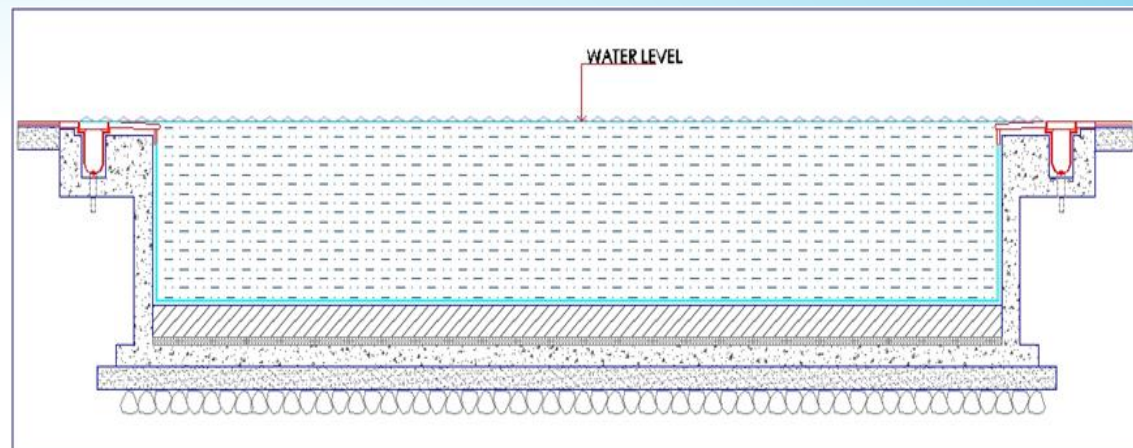


SWIMMING POOL

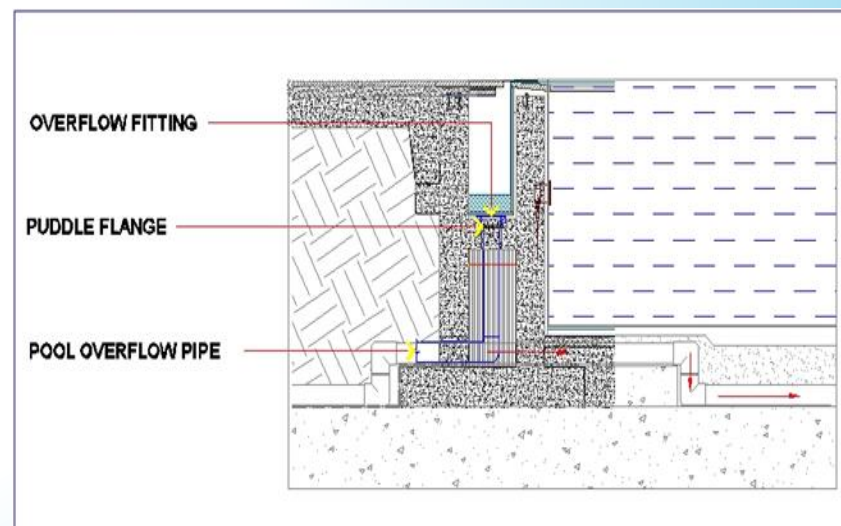
There are different type of pool available today and client choose to be unique on selection

Pools with

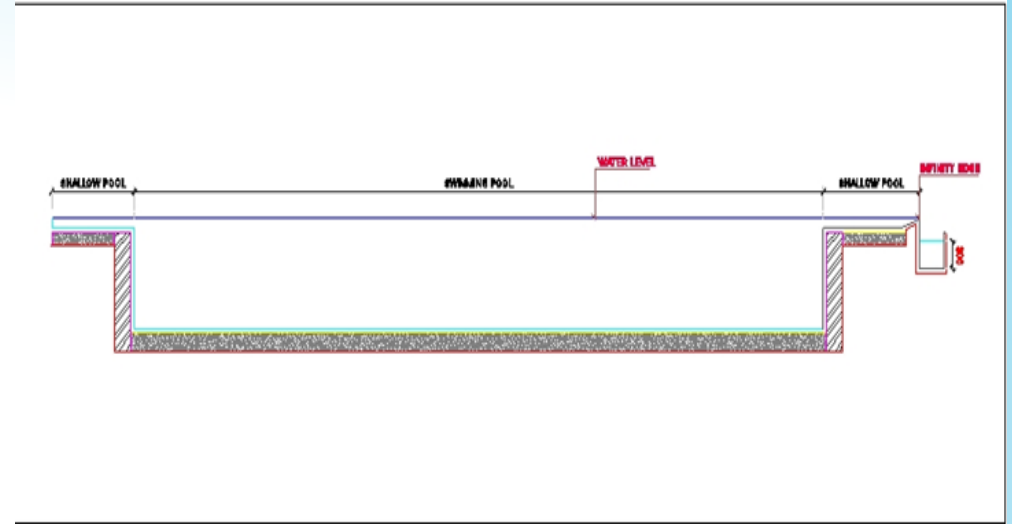
- All side overflow
- 2 side overflow
- 3 side overflow with infinity edges
- Linear slot overflow
- Pool facing nature to have which create real infinity edge pool
- Pool with water feature
- Pool with Jacuzzi



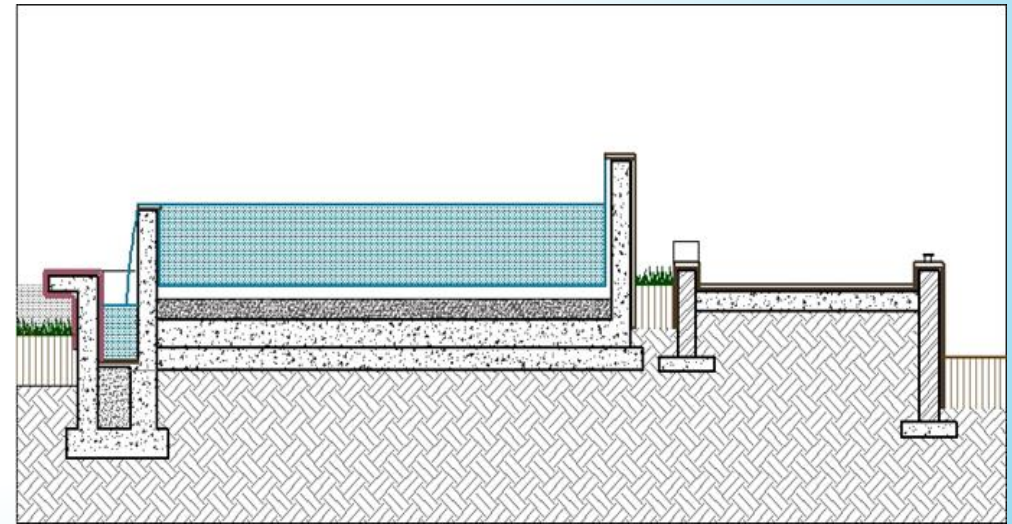
OVERFLOW POOL



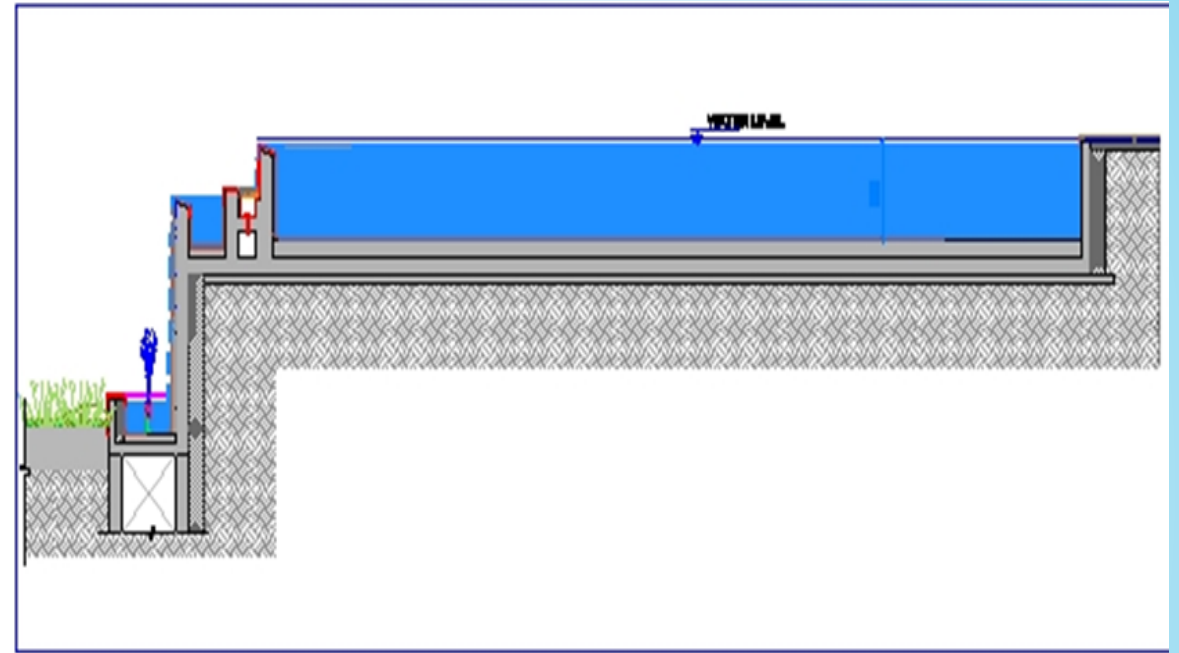
SLOTTED OVERFLOW POOL



REAL INFINITY EDGE POOL



ONE SIDE OVERFLOW POOL



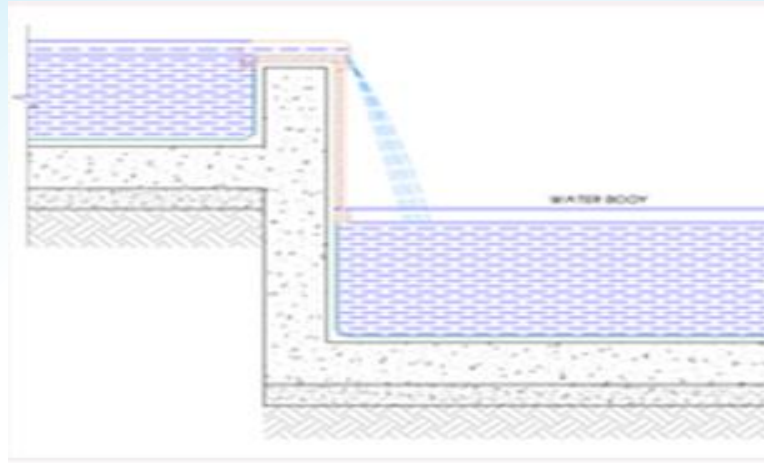
← POOL WITH WATER FEATURE →

WATER FEATURE

While designing water feature or a fountain you need to know the following details in mind.

- What is waterfall, different types, how engineering is different in each?
- Water trickling in wall: Different types approached differently
 - Flat wall
 - Inclined wall
 - Deep slope walls
 - Multi level steps

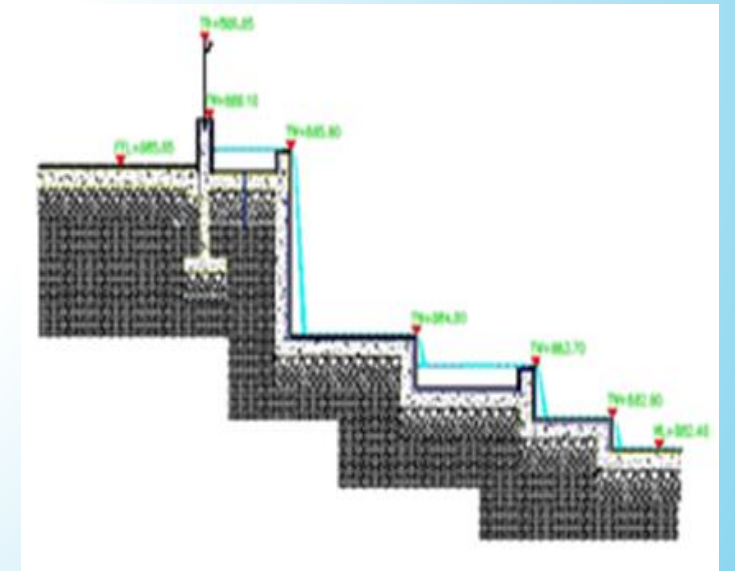
Engineering changes a lot with different functions, type, & kind of water feature.

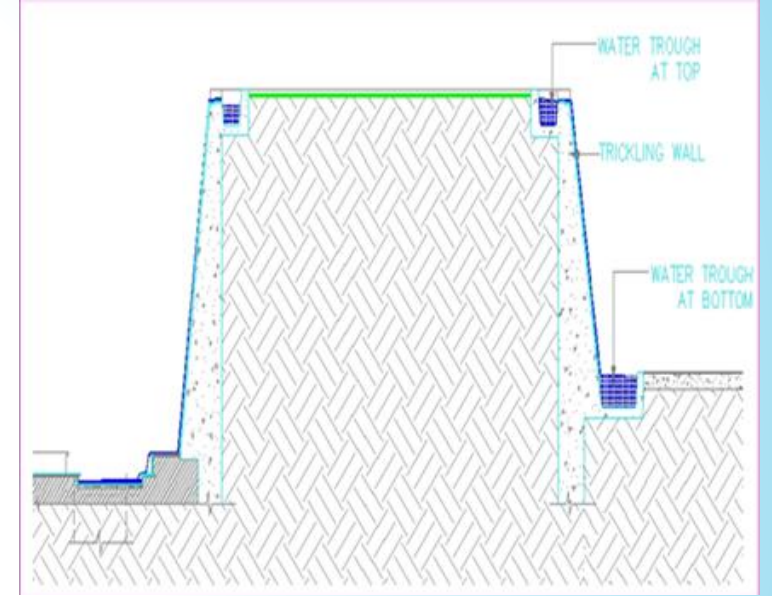
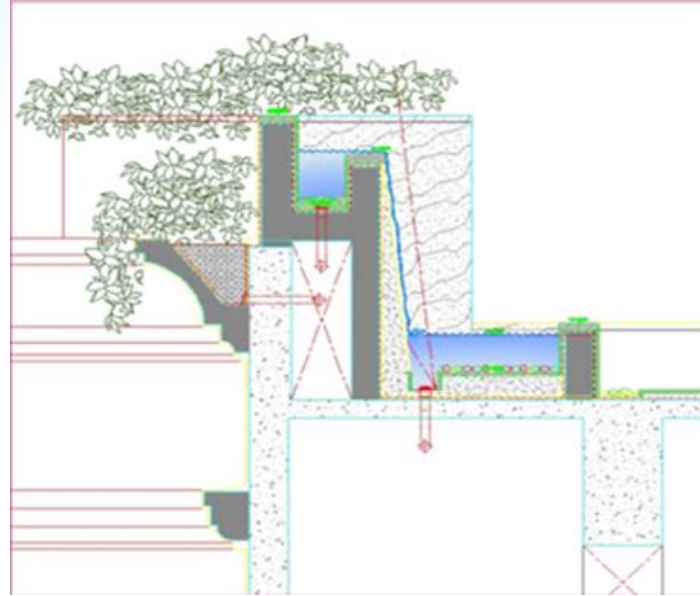


WATERFALL



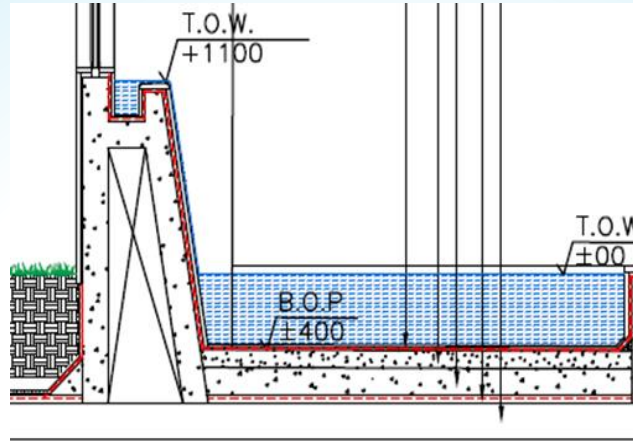
MULTILEVEL WATER CASCADE



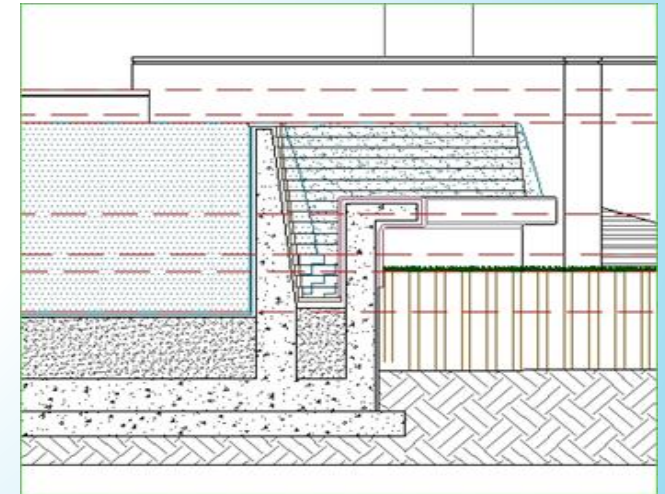


**← WATER TRICKLING EFFECT
SLOPED WALL (SINGLE SIDE)**

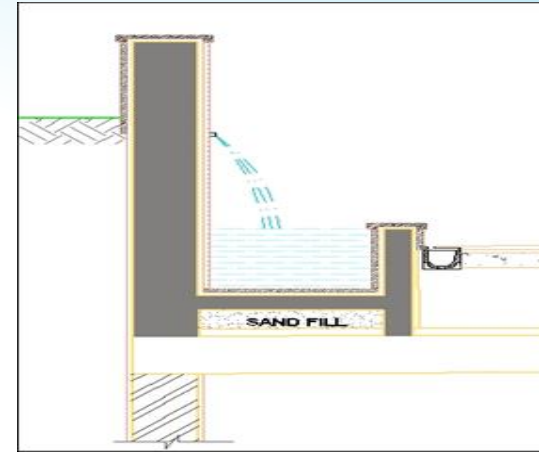
→ (DOUBLE SIDE)



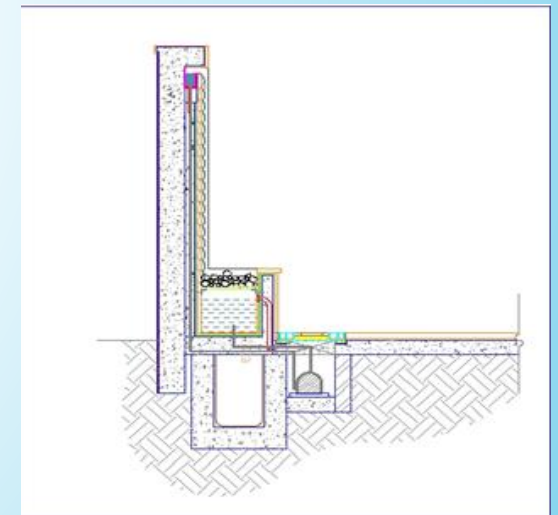
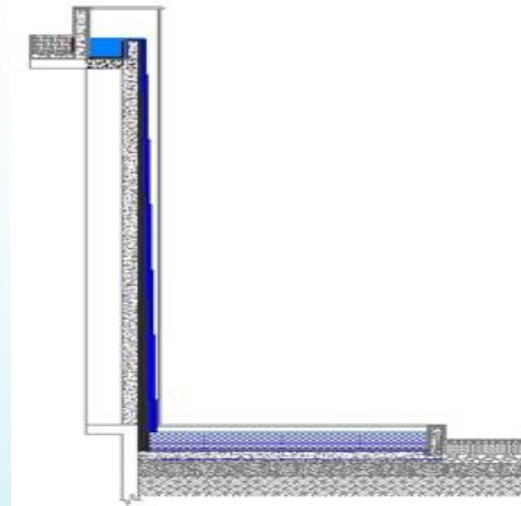
WATER CASCADE



CURVED WATER CASCADE



WATERFALL WITH READYMAD E FIXTURES



WATER TRICKLING STRAIGHT WALL

IRRIGATION

Protect your investment and simplify maintenance of your landscape and lawn with the right irrigation system. We, experts can ensure your project uses only the water needed, only where it's needed, only when it's needed, saving precious resources and your budget

INTEGRATION IS OUR CORE

We are **AQVASTAR**

We integrate our design in swimming pool, water features, and irrigation.

We create singular experiences with water in coordination with architects.

We work closely with clients, project architects, landscape architects and MEP consultants. This fusion of disciplines results in outstanding design and build of correct system needed for projects, which are always delivered on time and on budget.

We ensure it is design & built without any compromise on quality & safety.



THANK YOU