



CONTECH[®]
ENGINEERED SOLUTIONS
A QUIKRETE[®] COMPANY



UrbanPond[®] Concrete Stormwater Detention



The experts you need to solve your stormwater challenges



Contech is the leader in stormwater solutions, helping engineers, contractors and owners with infrastructure and land development projects throughout North America.

With our responsive team of stormwater experts, local regulatory expertise and flexible solutions, Contech is the trusted partner you can count on for stormwater management solutions.

Your Contech Team



STORMWATER CONSULTANT

It's my job to recommend the best solution to meet permitting requirements.



STORMWATER DESIGN ENGINEER

I work with consultants to design the best approved solution to meet your project's needs.



REGULATORY MANAGER

I understand the local stormwater regulations and what solutions will be approved.



SALES ENGINEER

I make sure our solutions meet the needs of the contractor during construction.

Contech is your partner in stormwater management solutions



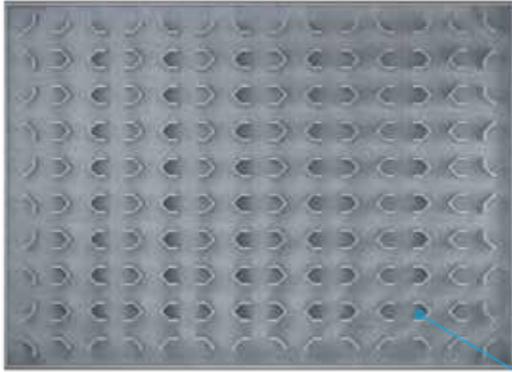
Innovative Concrete Stormwater Detention – UrbanPond®

UrbanPond is a modular precast concrete underground storage system that mimics the function of ponds and open detention basins. It has high void percentages to maximize stormwater volume, and its robust precast form allows systems to be buried deeper without the need for specialized backfill, increased wall thicknesses, or extra rebar reinforcement.

Change to modules are comprised of 8' x 16' interior and perimeter modules with inside heights ranging from 3' to 14' in 6" increments, giving designers more versatility to accommodate dense development, urban infill, or larger high-volume projects. The modular design can be placed under roadways, parking lots and landscape areas in various shapes, sizes, and depths. The system's internal offset leg configuration provides channel-less water distribution for stormwater entering and exiting the system, and the robust precast form allows it to be buried.

UrbanPond, a traffic-rated underground stormwater storage system, is designed and produced with considerations such as height of cover, live and dead loads, proximity to adjacent structures, and required detention volume.

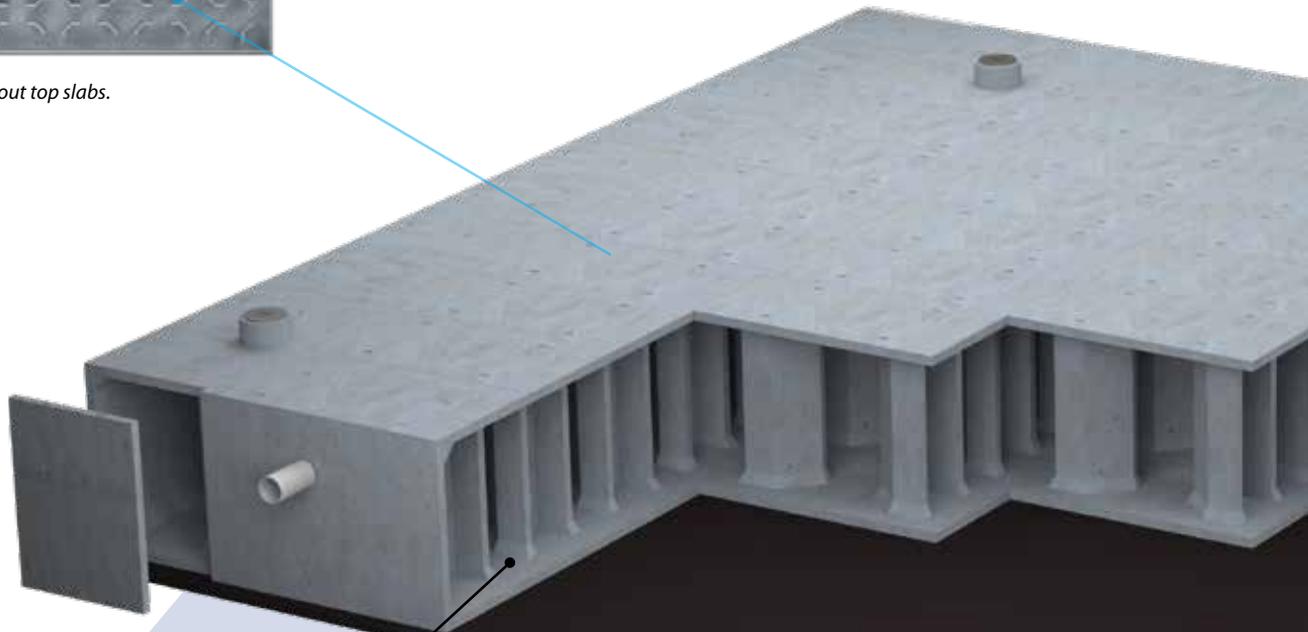
UrbanPond® Configuration



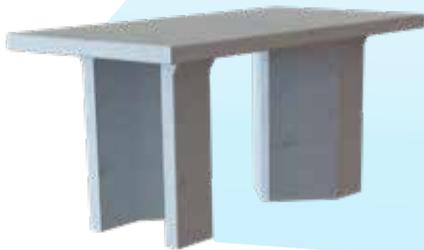
Top view without top slabs.

8' x 16' Module Assembly

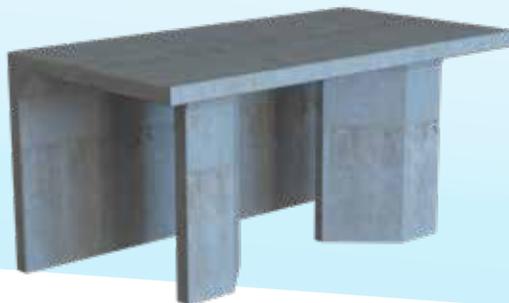
The UrbanPond structure benefits from repeating tessellated shapes. The offset leg configuration of the modules creates an open, channel-less internal space.



Inflow Pipe



Interior



Perimeter

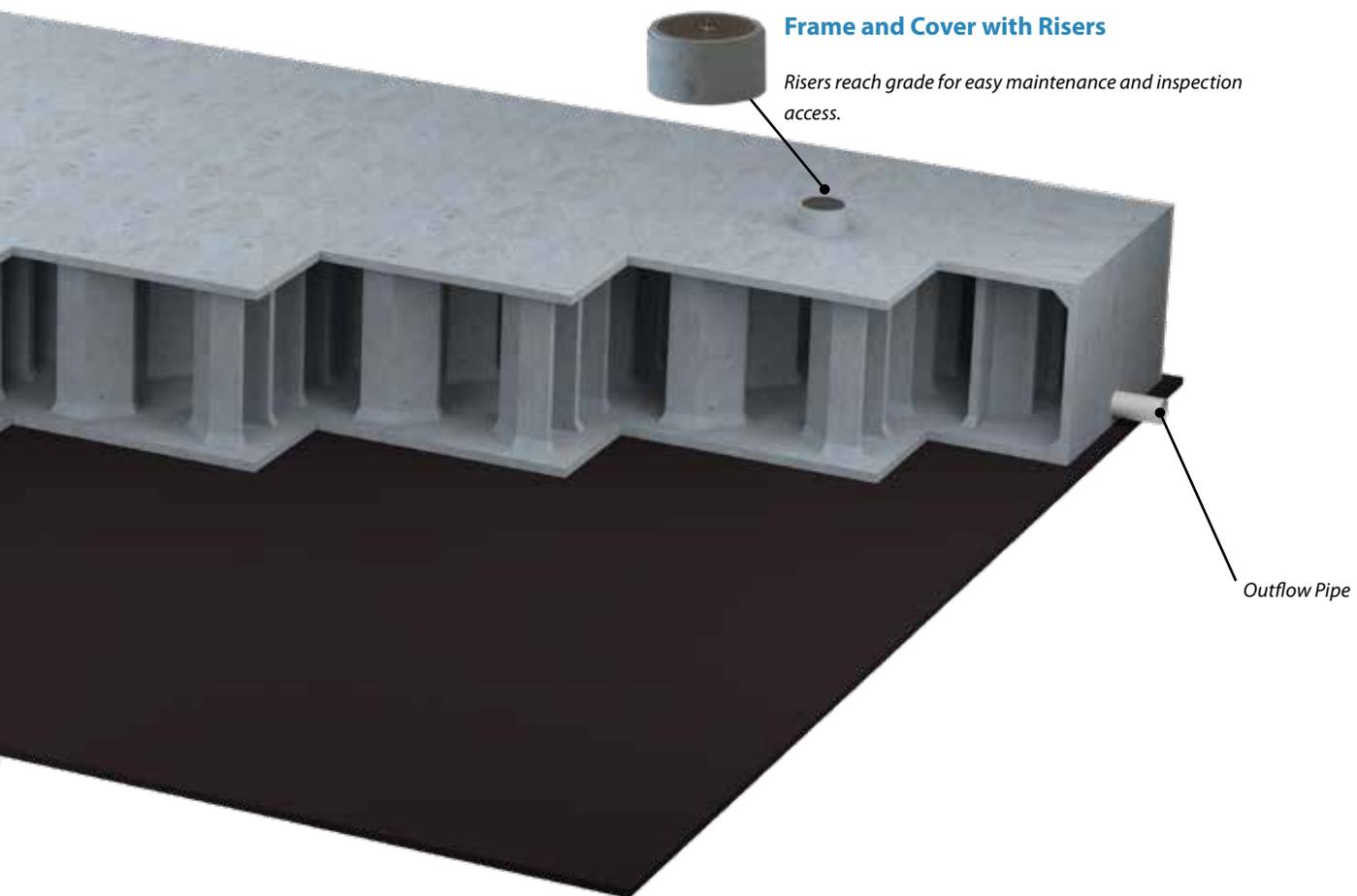
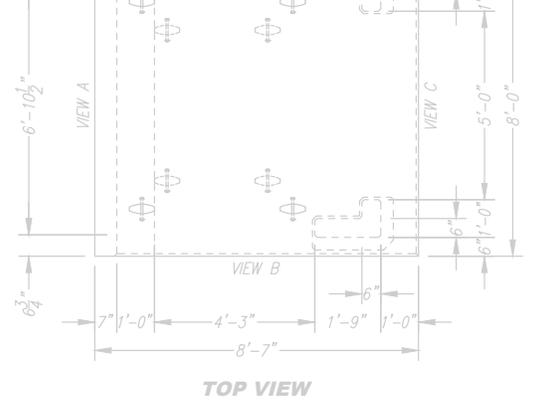


Interior Stacked



Perimeter Wall Panel

Superior strength and load capacity



Eliminates the need to purchase rock backfill required in other concrete systems.

UrbanPond® Features and Benefits

FEATURE	BENEFIT
Modular design to meet site constraints and installation requirements	Design flexibility while maximizing storage space
Optional built-in orifice control riser	Slowly discharges captured runoff to keep your site in compliance with local regulations
Designed to meet HS-20 and HS-25 loading requirements	Superior strength & load capacity
Minimum cover of only 12"	Maximizes available depth
Can be backfilled with native soil	Eliminates the need to purchase rock required in other concrete systems



APPLICATION TIPS

- Best practice designs for subsurface infiltration include pretreatment to reduce cost and frequency of maintenance while ensuring the infiltration capacity of the facility.

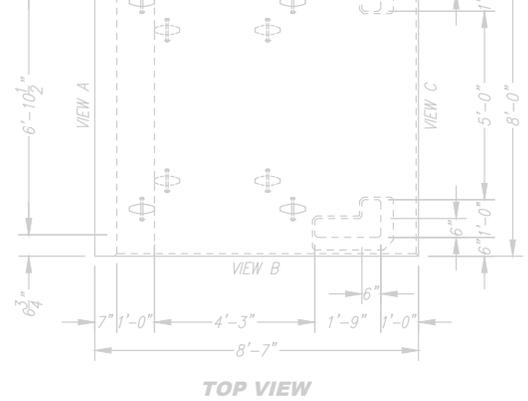
UrbanPond® System Sizing

UrbanPond modules are available with inside heights ranging from 3 feet to 7 feet, in 6-inch increments, and the stacked UrbanPond modules are stackable up to 14 feet.

URBAN POND INSIDE HEIGHT (FT)	8' X 16' INTERIOR MODULE STORAGE VOLUME (CF)	8' X 16' PERIMETER MODULE STORAGE VOLUME (CF)
3	356	360
4	475	484
5	595	607
6	714	730
7	834	854
8	950	
9	1070	
10	1190	
11	1310	
12	1428	
13	1548	
14	1668	

A breakthrough system for underground storage management

UrbanPond® Applications



Detention/Retention

Detention with controlled discharge utilizing built-in outlet orifice structures. Retention for long-term storage of runoff onsite to meet strict stormwater requirements.

Flood Control

Flood Control of peak storm events to minimize downstream flooding and erosion.

Infiltration Galleries

UrbanPond infiltration galleries are designed to maximize the transfer of water for percolation into native soils and groundwater recharge. The features include 30" diameter infiltration openings in each module.

Treatment Train Design Options

The example shows an upstream Debris Separating Baffle Box (DSBB) to treat large flows, and capture trash, debris, and suspended solids, as well as hydrocarbons. The Modular Wetlands Linear is downstream, and the only biofiltration product that can be placed downstream of a detention system.



UrbanPond® Maintenance

UrbanPond is designed to be maintained from the finished surface via a vacuum truck. Access ports are strategically placed throughout the system to facilitate maintenance. Modules can be modified to act as clear wells or pretreatment chambers for capturing trash, debris, and sediment. This consolidates maintenance requirements to a select few modules. Standard manholes, hinged manholes, and other access hatches are available.



UrbanPond® systems are designed with multiple port locations for easy maintenance.

A partner you can rely on



STORMWATER
SOLUTIONS



PIPE
SOLUTIONS



STRUCTURES
SOLUTIONS

Few companies offer the wide range of high-quality stormwater resources you can find with us — state-of-the-art products, decades of expertise, and all the maintenance support you need to operate your system cost-effectively.

THE CONTECH WAY

Contech® Engineered Solutions provides innovative, cost-effective site solutions to engineers, contractors, and developers on projects across North America. Our portfolio includes bridges, drainage, erosion control, retaining wall, sanitary sewer and stormwater management products.

TAKE THE NEXT STEP

For more information: www.ContechES.com

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