

## CASE STUDY

# D.C. United Audi Stadium

## Washington, D.C.

### OWNER

DC Events, Washington, D.C.

### ENGINEER

WSP USA, Washington, D.C.

### CONTRACTOR

Joseph J. Magnolia, Washington, D.C.

### INSTALLATION DATE

March 2018

### PRODUCTS

242 MC-3500 StormTech® Chambers  
1,000' (304 m) of 24" (600 mm) HDPE pipe  
8,860' (2,700 m) of 6" (150 mm) HDPE pipe  
ADS 0601TG non-woven geotextile  
ADS 315WTM woven geotextile

### DESCRIPTION

Two underground systems from ADS added to the high quality of Audi Stadium, D.C. United's home field, which will also host multiple other events.

242 StormTech MC-3500 chambers were installed under the field and in bio-retention sites outside the stadium for a total volume of 51,142 gallons (232,496 liters) of stormwater detention. StormTech chambers were chosen as they met stormwater management requirements, reduced storage footprint due to being shipped on pallets and were delivered just prior to installation. For soil separation, ADS 0601TG geotextile was utilized on top of the chambers and ADS 315WTM geotextile was used for scour protection below the chambers.

ADS perforated HDPE pipe was utilized to drain the playing surface. The pipe may also be hooked to a blower, which will blow warm or cool air through the system, to help maintain and nurture the natural grass turf. Nearly 10,000' (3,000 meters) of pipe was installed in just 15 days.



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