



ASPHALT TO GREEN

***Drainage & Impact Attenuation Layer
For Asphalt to Green Applications
For Synthetic Turf Sport Surfaces and Playgrounds***



ASPHALT TO GREEN

Engineered Sportfield Solutions, in conjunction with *experts in the field*, has developed the ideal solution to easily convert impervious asphalt or concrete surfaces into synthetic turf surfaces for athletic playing fields and playgrounds. This *Asphalt to Green (A₂G)* application is growing in popularity around the United States, especially in urban areas where grass play surfaces are scarce and insufficient for demand. There is a strong environmental drive in many municipalities to expand *green* space by turning paved surfaces into athletic fields and playgrounds.

By utilizing our patent pending turf systems with Sport Drain_{MAX}, you can easily convert an asphalt or concrete base into a synthetic turf athletic surface. Sport Drain_{MAX} is deployed directly over the existing layer; the turf and infill systems are easily installed directly on top. It's that simple! Sport Drain_{MAX} provides horizontal drainage and shock attenuation in one easily installed layer. There is no need for an elaborate drainage system; its lightweight and thin profile allows for minimal slope while providing superior drainage and consistent, engineered safety directly under the entire turf surface.

These new A₂G turf fields can host a greater range of games, including contact and impact sports. A₂G can be easily designed for any type of sport including soccer, football, baseball, softball, lacrosse, rugby, and field hockey.

On the average athletic field, ESS converts 90,000 lbs. of post-industrial waste into an engineered product.

A₂G SYSTEM SOLUTIONS



Pomona College, Pomona, CA

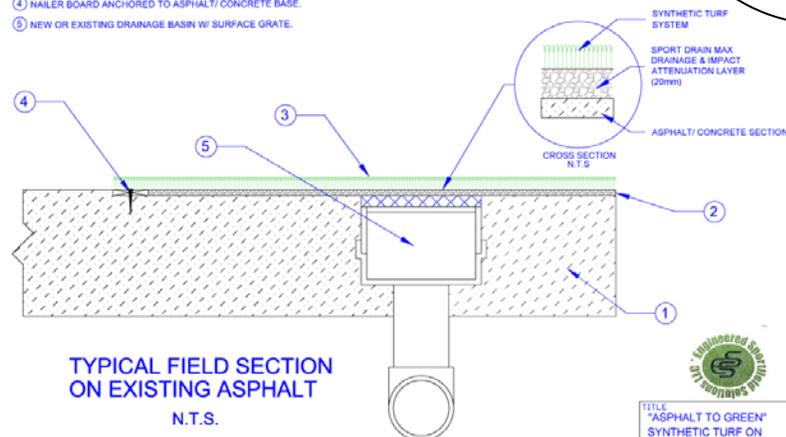
In 2011, Pomona College in Claremont, California completed construction of the new South Campus Parking Facility and Playing Field, which includes a full-size synthetic field on top of a 2-level parking structure for Lacrosse and Soccer. The new structure solved two pressing problems: **1)** A need for additional Parking and **2)** Maximizing the space by including the artificial sport field with the Asphalt to Green design. The parking structure was designed with a focus on sustainable construction and includes a variety of green building features. In keeping with an environmentally conscious plan, Sport Drain_{MAX} (made from 100% recycled materials) was selected and placed directly over the concrete deck and membrane, eliminating the need for any natural aggregate materials required for drainage. Sport Drain_{MAX} was chosen to provide horizontal Drainage and Shock Attenuation in one easily installed layer. Sport Drain_{MAX}'s lightweight and thin profile allows for minimal slope, while providing superior drainage and consistent engineered safety directly under your synthetic turf system.

- Parking Lots
- Parking Decks
- Roof Tops
- Tennis Courts
- Indoor/Outdoor
- Common Areas
- Sport Courts
- Basketball Courts



NOTES INDICATED BY NUMBER:

- 1 EXISTING ASPHALT/ CONCRETE CROSS SECTION
- 2 SPORT DRAIN MAX. SEE SPECIFICATIONS.
- 3 SYNTHETIC TURF SYSTEM. SEE SPECIFICATIONS.
- 4 NAILER BOARD ANCHORED TO ASPHALT/ CONCRETE BASE.
- 5 NEW OR EXISTING DRAINAGE BASIN W/ SURFACE GRATE.



TITLE
"ASPHALT TO GREEN"
SYNTHETIC TURF ON
EXISTING PAVEMENT
SECTION

DATE	REV.	APP'D.	RELEASE
08/11	001	SSC	—
08/11	002	SSC	—
08/11	003	SSC	—
08/11	004	SSC	—
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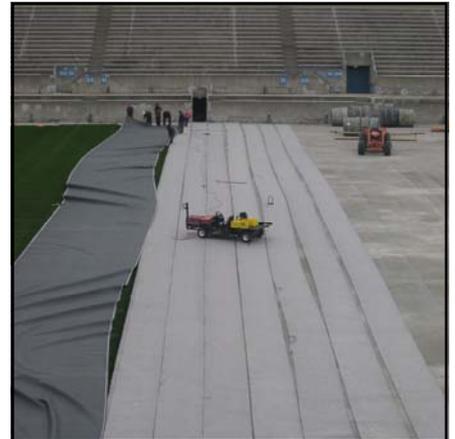
SPORT DRAIN_{MAX}



New York City Parks and Recreation has embraced the practice of turning *Asphalt to Green* for their public parks. Sport Drain_{MAX} has been paramount in ensuring the converted parks maintain safety and performance. This application is ideal for urban locations where green space is scarce.

THE KEY TO YOUR BEST FIELD

- Excellent drainage efficiency
- “Lays flat — stays flat” technology
- Crush resistant
- Safe and long lasting
- Excellent impact protection for the life of the field
- Quick and cost effective installation
- Environmentally friendly, 100% recycled and recyclable
- Installed and tested with any infill material to ensure safety and performance



Alan Lamport Stadium, Toronto.

The stadium, built in the 1970's and designed with AstroTurf directly on a concrete sub-base. The project engineer needed to effectively incorporate a drainage layer in the new resurfacing turf design. Removing the existing concrete would cause the project to be over budget. It was determined that the only way to proceed with the project was to incorporate Sport Drain_{MAX} as a Drainage and Impact Attenuation layer on the project.

Easily resurface existing asphalt or concrete into synthetic turf playing fields.

AG₂ SYSTEM ADVANTAGES

- Recycle outdated, under-utilized hard surfaces into high-demand synthetic turf systems.
- Save money and stretch your budget further, by reducing base layer demolition and construction costs.
- Tested to ensure a safe turf system on asphalt or concrete surfaces for any type of sport, including impact.
- Create a high performance synthetic surface using virtually any infill materials.
- Recover green space on existing paved surfaces using *Best Practice* design.
- Reduce the heat-island effect of urban areas.
- Manage stormwater with greater predictability.
- Revitalize communities — More green space within a city's boundaries improves the urban environment.



Georgetown Day School, Washington DC. Located in the center of our nation's capital, the school is challenged for open space. The need for parking and an athletic surface forced the school to maximize their urban space by constructing a synthetic turf athletic field on the top of the parking garage. Sport Drain_{MAX} was selected and placed directly over the concrete deck and membrane, eliminating the need for any natural aggregate materials required for drainage.



Phone: 410-878-6341

SELECTED ASPHALT TO GREEN PROJECTS

Alan Lamport Stadium – Toronto, Ontario (2007)

Asphalt Green – New York, NY (2009)

Georgetown Day School – Washington, DC (2009)

New York City Parks & Recreation (2009, 2010 & 2011)

University of Kentucky – Lexington, KY (2010)

Pomona College – Claremont, CA (2011)



Engineered Sportfield Solutions promotes engineered technologies that specifically target synthetic and natural turf projects.

About Engineered Sportfield Solutions, LLC

With 30 years experience developing and implementing synthetic aggregate systems, ESS has resolved the challenges typically associated with designing and building synthetic and natural drainage layers for sport fields. ESS provides products and services that *engineer* safety and performance for an optimal turf surface. It is our continuing mission to develop new and existing technologies to enhance any turf system. We strive to integrate design and materials to provide *Best Practice* solutions that improve performance by combining technological innovation with design engineering principles. These technologies enhance turf performance for your benefit while offering superior impact protection, drainage and durability, that are not attainable with any other natural or synthetic material. Our products will enhance field safety and long-term performance with no increase to traditional construction and maintenance cost.



FOR MORE INFORMATION, PLEASE VISIT

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