

# Coal City High School

## Athletic Field Renovations



COAL CITY HIGH SCHOOL



## How we got here

<b>December 2009</b>	<b>-Board formulates Ad Hoc Committee to discuss pros and cons of field turf</b>
<b>February 2010</b>	<b>-Presentation to Board from Ad Hoc Committee -Placed turf project on long range Capital Outlay plan</b>
<b>2013 - 2014</b>	<b>-Board gathered information, pros and cons on turf options from vendors, contractors, and other school districts</b>
<b>2017</b>	<b>Phase I of stadium upgrades completed (bleachers, concrete, fencing)</b>
<b>2020</b>	<b>-Board defers Phase II of stadium upgrades (turf) -Studies over potential health and safety reviewed -Uncertainty of Dresden Station</b>
<b>2022</b>	<b>-Agreement with Constellation (5 year)</b>
<b>July 2022</b>	<b>-District Strategic Plan meeting (60 stakeholders) -Facilities Improvement Committee formed -Cordogan Clark start Facilities Improvement Plan process</b>
<b>January 2023</b>	<b>-Facilities Improvement Plan completed -District prioritized items recommended -Finance Committee analyzed funding options</b>
<b>December 2023</b>	<b>-District issues debt to fund Facilities Improvement Plan recommendations (turf included in phase I)</b>



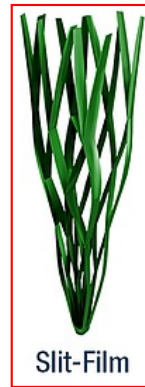
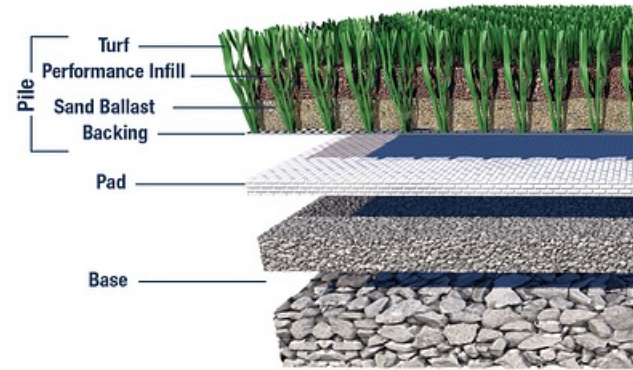
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## Turf System Characteristics

### Artificial Turf System

- Pile Type & Height
- Backing
- Shock Pad
- Sand Ballast
- Resilient Infill Options



Slit-Film

BB/SB



Monofilament



Dual Fiber

FB/S

Crumb Rubber



Organic Material



TPE



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## Resilient Infill

### Resilient Infill Options

- Base Bid: Thermoplastic Elastomer (TPE)
- Alternate: Organic Infill
- Considerations
  - Cost
  - Health
  - Heat
  - Traction
  - Splash

Crumb Rubber  
Cost Effective  
Heating Effect  
Microplastic  
Perceived Health Concerns



Organic (Corn, Wood, Coconut, Olive Cores, Cork)  
Medium Cost  
Cooling Properties  
Sustainable  
Shock Pad Needed  
Mimics Natural Turf



TPE  
Higher Cost  
Cooling Properties  
Microplastic  
Shock Pad Needed



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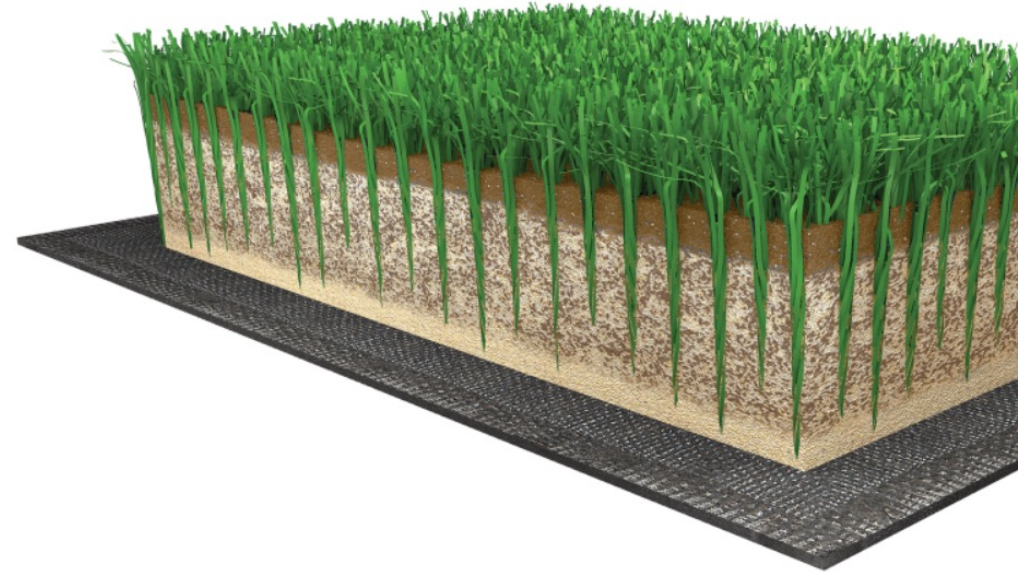
## Alternate Infill Considerations

### PureCobb Infill (Field Turf)

- Granulated woody-ring portion of corn cobs
- Used in Europe for almost 5 years
- Several Installations in North America

### OliveCore Infill (Field Turf) – Infields Only

- Granulated olive cores
- Several Installations in Illinois
  - Lewis University Softball Field
  - Illinois Wesleyan
  - Vernon Hills High School Softball



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## Base Bid Infill Considerations

### TPE Infill (Field Turf)

- Synthetic alternative to crumb rubber
- Uniform shape and size
- Temperature stability provides heat reduction at field level
- Balance of performance, shock attenuation, and durability



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