“We had one of the driest, hottest summers on record in Kansas City, and Bull’s-Eye thrived all season. It’s the best bermuda I’ve ever dealt with.”

Let’s Talk Turf.

- DEEP BLUE GREEN COLOR
- RESISTS SCALPING
- NO SEED HEADS
- BETTER IN SHADE
- EXCELLENT WEAR TOLERANCE

Just ask the pros!

Trevor Vance
Director of Grounds and Landscape
Kauffman Stadium
Home of the Kansas City Royals

For details call 800/447-1840, or visit www.westcoastturf.com

Circle 137 on card or www.onersims.ca/2007-137
Stadium lighting installation was actually a component of a larger capital improvements project, which includes additional improvements to the Prairie Ridge High School campus. The project components are based on need and practicality.

The initial discussions began nearly three years ago, but in a less formal fashion. The capital improvements committee was formed about a year ago, and after that point, momentum was quickly built.

The decision and planning process involved many people, including Prairie Ridge High School administration, High School District #155, the City of Crystal Lake, and McHenry County.

Several factors were considered and discussed as the project was established. The installation of lights allows for Friday night football games as well as track and other events. Since funds raised by the booster club are distributed to many programs throughout the school, increased income from night football games and other events will benefit every student in every organization served by the booster club—from fine arts to the library to athletics. The higher revenues generated by these events will benefit the Prairie Ridge community for many years to come.

The project was funded through a combination of private donations, donated services and, most importantly, money raised by various groups throughout the high school. Nearly 40 percent of the funds were raised through the efforts of students and faculty at Prairie Ridge.

The lighting system was purchased from Musco Sports Lighting, Muscatine, IA, based on experience several members of the committee had with Musco on similar projects elsewhere.
Musco has a solid reputation for installing a quality product that delivers a system that is energy efficient. Since the football stadium is located adjacent to a neighborhood, we also sought a design that would direct the light on the field rather than across the neighborhood. Musco satisfied that requirement as well. Other systems were evaluated, but Musco was chosen.

**ST:** How was the electrical contractor chosen?

**Burg:** The electrical contractor was an active member of the booster club, and also has a solid reputation for quality work and the ability to deliver the project on a tight deadline. The booster club was under a tight deadline to have the installation completed by the first home football game.

**ST:** What advice would you give to other schools who might be considering a field lighting system?

**Burg:** Involve as many people as you possibly can in the project, including fund raising. Also, allow for as much time as possible for the project.

---

It's true to your game, and ours. That's why we make it our business at Pennington to provide lush, durable turfgrass for any managed property or athletic field.

Our Applaud Perennial Ryegrass series is rated #1 for its high turf quality, disease resistance, density, color, and mowability.

Pennington's Plantation tall fescue is also the top in its class, because of its fine texture and outstanding dark, green color that will endure any condition, any time of year.

Our bluegrass and perennial ryegrass is so good, it was used to cover every square inch of the season's toughest game in professional football – SUPER BOWL XXXVIII and will continue to cover the next four Super Bowl fields.

Whether it is the biggest arena in pro football or your front lawn, you can trust Pennington to go the extra yard for all your turfgrass needs.
DEER CONTROL
Deer-Away uses the odor of eggs to chase deer away before they get a chance to nibble on trees, shrubs or ornamental flowers. The patented formula is also effective in deterring rabbits and other large wild animals.
Woodstream Corp./800-880-1819
For Information, circle 070 or see www.oners.ims.ca/2907-070

BE A CROWD PLEASER!

When it comes to pleasing fans, nothing beats a great game played on real turf maintained to perfection. Anderson's Professional Turf™ (APT) products help you get the cheers you deserve when the teams hit the field.

Our line up of all-star products – over fifty different formulas – has been developed to offer you maximum flexibility in toppling turf care challenges and to assure your ability to attain optimum results. From the infield out and goal to goal, APT products help you keep your turf healthy and hearty under the most demanding game conditions. And if insects or weeds attempt to get in on the action, we can help you give them the boot with our undefeated special teams of control products.

For nearly 40 years, The Andersons has been refining the art and science of producing turf-specific fertilizers, pest control products and fertilizer/pest control combination products. And we’ve never been more fired up about serving your needs. We want you to see those Turf Heads in the stands get up to give you a standing "O"!

The Andersons® For a free selection guide and more information about The Andersons complete line of Professional Turf products call toll free, 1-800-225-2839.

BACKSTOPS AND BASES
Here are some suppliers and manufacturers of backstops and bases:

<table>
<thead>
<tr>
<th>Supplier</th>
<th>Phone Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFP Soft Touch</td>
<td>800-965-4690</td>
</tr>
<tr>
<td>American Athletic</td>
<td>800-247-3878</td>
</tr>
<tr>
<td>Ball Products</td>
<td>800-767-2255</td>
</tr>
<tr>
<td>Irl (GPI)</td>
<td>800-747-5985</td>
</tr>
<tr>
<td>Beacon Ballfields</td>
<td>800-527-7510</td>
</tr>
<tr>
<td>BSN Sports</td>
<td>800-248-5192</td>
</tr>
<tr>
<td>C &amp; H Baseball</td>
<td>800-387-5868</td>
</tr>
<tr>
<td>Covermaster</td>
<td>800-445-6680</td>
</tr>
<tr>
<td>CoverSports USA</td>
<td>713-488-9200</td>
</tr>
<tr>
<td>Fielder’s Choice</td>
<td>800-621-0146</td>
</tr>
<tr>
<td>M. Putterman</td>
<td>800-338-6287</td>
</tr>
<tr>
<td>Mancino Mfg</td>
<td>800-529-6645</td>
</tr>
<tr>
<td>Parugas/Pal/Beam/Olay</td>
<td>800-247-BEAM</td>
</tr>
<tr>
<td>ProMats</td>
<td>800-678-6297</td>
</tr>
<tr>
<td>Turbo Link</td>
<td>727-442-2570</td>
</tr>
<tr>
<td>World Class</td>
<td>800-748-9649</td>
</tr>
</tbody>
</table>

WALL PADS
Promats introduces a new field wall pad using SKYDEX Smarter Cushioning materials. These pads are durable, 60 percent lighter and absorb more impact. Pads can be customized.
Promats Inc./800-678-6287
For Information, circle 099 or see www.oners.ims.ca/2907-099

SPOT COVER KITS
CoverSports USA has new Spot Cover Kits designed to protect bases, pitching mounds, home plate, and bullpens. Each spot cover is made from 16-oz. reinforced vinyl or 6-oz. polyethylene fabrics to stand up to sun and rain.
CoverSports USA
800-445-6680
For Information, circle 068 or see www.oners.ims.ca/2907-068

CoverSports USA
http://www.greenmediaonline.com
Turns out there actually are enough hours in the day.

Introducing the Toro® Groundsmaster® 4100-D. It’s designed from the ground up to get more done. The entire 10.5’ cutting deck is in front for easy maneuvering. And fast mowing. Muscle? It has the most net horsepower and torque in its class. For Toro Financing™ options, call 1-800-803-8676 or visit toro.com.
REGIONAL INFIELD MIXES
AND RED WARNING TRACKS
FOR EVERY STATE & CLIMATE!
PLUS INFIELD CONDITIONERS
TO IMPROVE EXISTING INFIELDS:
IF TOO HARD AND POORLY DRAINING:
THE REDDER, LESS DUSTY, MORE UNIFORM
“RED” OR “GREY” FOR INFIELDS
“GREEN” FOR TURF
FOR CONSISTENT INFIELD CUSHION
IN WET OR DRY WEATHER!
IF TOO SOFT & DUSTY:
STABILIZER®
FOR FIRM, YET RESILIENT, PLAYING SURFACES
TO QUICKLY DRY INFIELDS!

The Original & Most Absorbent is Now
DIAMOND-DRY.

DuraScreen interior seams are on a heavy polyester reinforced grommet strip; edges are tough polyester webbing. Custom colors and sizes; factory direct pricing.
BP International/800-767-2255
For information, circle 998 or see www.oners.ims.ca/2907-098

COOL OFF!
For the athletic department that has everything! One push activates 13 misting heads to cool off athletes during play or after. This model 530 SM Mister is available in stainless steel with nine colors to choose from. Comes standard with stainless steel mounting plate.
Most Dependable Fountains/800-552-6331
For information, circle 077 or see www.oners.ims.ca/2907-077

SEE BP FROM NEAT SEAT
Since 1968, C & H Baseball has set a standard in portable batting cages for major league to the high school level. The “Pro Cage” is the highest quality batting cage on the market today, says C & H. Exclusive coaches’ observation bench is available as an accessory to our batting cage. Watch practice from unique perspective.
C & H Baseball/800-248-5192
For information, circle 094 or see www.oners.ims.ca/2907-094

LED-POWERED OUTDOOR LIGHT
Millennio is an LED pole-mounted area lighting fixture for outdoor area lighting. This fusion of optimized controlled light, design and packaging, with the LED technology, which is energy efficient and long-lasting Light-Emitting Diodes (LED), designed for use over public pathways, parks and grounds.
HessAmerica/704-471-2211
For Information, circle 078 or see www.oners.ims.ca/2907-078
FENCE COVER
Pioneer has available its Fence Guard, a rounded tubing material for barbs of chain link fencing. Polyethylene tubing retains its shape. Install by sliding onto fence and securing with plastic ties. Available in 80-ft. sections in many colors. Pioneer Manufacturing/800-977-1500
For information, circle 071 or see www.oners.im.ca/2907-071

TREE PLANTING INOCULANT
Mycor Tree Saver, a comprehensive mycorrhizal fungal and microbial soil inoculant used to increase survival and growth rates of trees and shrubs after planting, has been reformulated to include formononetin, a patented isoflavone, and beneficial rhizosphere bacteria. Plant Health Care/800-621-9051
For information, circle 074 or see www.oners.im.ca/2907-074

TRAILING TREATS
Easy-to-grow Silver Falls and Emerald Falls dichondra are high-impact, long-performance component plants for mixed plantings in containers and beds. Both plants are heat and drought tolerant. Both also work well as unusual annual groundcovers.
Ball Horticultural/800-879-BALL
For information, circle 075 or see www.oners.im.ca/2907-075

Jump Into The Sea

- Most Salt Tolerant Turfgrass • Darker Green Color Than Bermudagrass
- Tolerates Gray Water, Effluent and Many Medium-to-Poor Quality Water Sources
- Low Fertilization Requirements • Handles Wide Range of Soil pH Levels: 4.0-9.8
- Minimal Pesticide Requirements • High Tolerance to Salt Spray, Water Logging and Periodic Inundations • Good Rooting in Sandy, Clay or Muck-Type Soils
- Can Be Overseeded with Bentgrass-Ryegrass-Alkaligrass Blends
- Root Growth & Functionality Still Maintained in 40-55°F Soil Temperature Range
- Excellent Low Light Intensity Tolerance

Providing Excellent Footing & Soft Landings for Professionals, Amateurs and Beginners

SeaIsle Certified Seashore Paspalum
www.seaisle1.com

Circle 105 on card or www.oners.im.ca/2907-105
TEMPORARY BACKSTOP
This product can act as a temporary backstop or field net in a variety of different situations and environments. One person can take it from storage to fully assembled size (15 ft. high x 36 ft. wide) in just minutes. The Beacon Port-A-Stop uses telescoping fiberglass poles, steel ground anchoring rods, and a knotless nylon net to create a quick, convenient, and temporary barrier for any sport.
Beacon Ballfields/800-747-9985
For information, circle 067 or see www.oners.ims.ca/2907-067

Not just green, Perk green.
Perk makes turf green up quickly without excess growth.

More than simply a traditional fertilizer, Perk is a true turf revitalizer. Our proprietary slow release organic iron combines iron humate with potash, nitrogen and magnesium to produce the only organic granular controlled-release iron source available. Perk provides deep, long-lasting greening and increased resistance to wear, drought and disease without stimulating excessive growth. Plus, the 1.5% magnesium in Perk even promotes the production of chlorophyll. You'll find Perk perfect for greening up fairways, fields and lawns. For more information, visit www.LebanonTurf.com. Or, for the name of your nearest distributor, call 1-800-233-0628. And give your turf a little Perk-me-up.

WEATHER STATION SENSOR ADAPTERS
Onset Computer has introduced two Universal Sensor Adapters for its HOBO Weather Station products. The 12-bit 4-20 mA adapter and 0-5 VDC voltage Universal sensor adapters enable users to quickly and easily supplement Onset’s wide range of plug-and-play smart sensors with specialized third-party sensors.
Onset Computer Corp.
800-564-4377
For information, circle 072 or see www.oners.ims.ca/2907-072

HELP ROLLING UP COVERS
Field cover handling is simplified using Covermaster’s system. With the cover stored on the company’s Tarpmate, a lightweight plastic roller, and with Tarp Machine attached to your tractor, this system can handle any size cover simply by pushing and rolling it across the field. Free demo video.
Covermaster/800-387-5828
For information, circle 066 or see www.oners.ims.ca/2907-066
PATCH FROZEN CONCRETE
Arctic Freeze is a mortar that won’t crack, shrink, or lose its bond when applied in severely cold temps. The product is 100 percent solids epoxy mortar that provides cold temp repairs indoors or out. Fills potholes in concrete and allows for traffic flow within 2 hours of repair.
Garon Products/800-631-5380
For information, circle 076 or see www.oners.ims.ca/2907-076

UNIVERSAL TIRE CHAINS
Prime Line has universal tire chains, all zinc-plated, with two link spacing for traction. No tools required to install, one pair per carton.
Prime Line/217-324-9400
For information, circle 073 or see www.oners.ims.ca/2907-073

FACILITY DESIGN
As a part of Clough Harbour & Associates LLP, an ENR Top 100 full service engineering firm, is Clough Harbour Sports, its sports facility design division. This group of more than 20 professionals provides programming, planning, design, and project management of a full spectrum of indoor and outdoor sporting venues. The unit specializes in sportsfield design for both new and renovated facilities. Included in their portfolio are natural and synthetic surfaces as well as a wide variety of rootzones, turfgrasses, drainage, and irrigation systems.
To turn a field into a venue, CLOUGH HARBOUR SPORTS also designs the ancillary support facilities such as seating, press works, concessioning, training, lockers, etc. Its primary clients consist of nearly 50 colleges and universities, numerous municipalities, and more than 20 sportplexes, with selected professional and secondary school work included.
Since forming nearly a decade ago, this practice has worked in 18 states as well as on international facilities and several Olympic organizations.
Clough Harbour Sports
For information, circle 064 or see www.oners.ims.ca/2907-064

For the best performance... on the mound and in the batter’s box, you can’t beat Pro Mound packing clay. A unique blue gumbo clay, Pro Mound bonds to form a solid subsurface that allows players to dig in and establish footing without leaving large holes. It performs all year long – season after season.

Pro’s Choice
Sports Field Products
Call for information and samples of our full line of sports field products, including Rapid Dry* drying agent, Soilmaster® soil conditioner and baseball accessories.
800.648.1166
www.prochoice1.com

Circle 114 on card or www.oners.ims.ca/2907-114

http://www.sportsturfmanager.com • STMA
Just a little rain used to flood the University of Mississippi women's softball field, but not any more thanks to recent renovations.

"Both the infield and outfield were non-playable after a half an inch to one inch of rainfall," explains Clay Stewart, President of Stewart Environmental Construction, Inc. The Tupelo, MS-based firm specializes in sports field and golf course construction and renovation.

"The renovation addressed several problems dating from the original construction. Due to those problems, the university had to make numerous repairs and upgrades over the years," Stewart says. "The original grades, which were done mechanically, had deteriorated and drainage was not moving fast enough. Using new technologies not available at the time of the original construction, we've been able to improve both the surface and sub-surface drainage. We've changed some existing grades to meet our desired drainage criteria, and altered the tight soil configuration to allow more percolation."

First, the crew used a Caterpillar 262 skid steer loader to remove the existing turfgrass. After stripping the soil and removing the existing drainage system, Stewart and his crew began establishing new grades for proper drainage and creating a different soil profile for all turf areas. A Cat D4G LGP track-type tractor smoothed the varied elevation of the existing grade, providing a consistent profile of material, according to Stewart. "We used the D4G dozer to create a level plane and decrease mounding between the planes," he says. "The existing grade had undulations, so we had to remove some soil and do some cut-and-fill. This size machine was ideal for the job, not too big for a small area, but strong enough for the work involved. Once we laser-shot the desired sub-grade, the dozer was able to get to that level without having to re-establish the elevation."

The finished grade of both surface and sub-surface now measures one percent, an increase from the 0.8 percent average of the original grade. "We laser-graded the existing sub-grade," Stewart says. "We installed a larger storm drainage system for surface runoff, and a complete under-drainage system, with 4-inch laterals tied into 6- and 8-inch storm drains." The new irrigation system is designed to connect into a new central system currently under development by the university.

The crew used a Cat 303CR hydraulic excavator to install both the main trunk line storm drainage and the under-drainage system. "We used an excavator instead of a trencher because the excavator can also load a dump trailer. This way we avoided double work," Stewart reports. "In addition, the existing soil was so heavy with clay that a trencher would have had trouble staying on grade."

The sub-surface drainage uses N-12 ADS perforated pipe, chosen for its double wall design, which could be used for both surface and sub-surface. Nyloplast catch basins collect the surface water.

"On the field itself, we've employed a lab-tested pea gravel and a USGA sand mixture. Changing the soil profile improved the percolation rate from 3 to 4 inches an hour to our desired rate of 13 inches per hour, when mixed with the native soil. Testing verified that the sand will bridge over the pea gravel and won't infiltrate it."

Stewart Environmental used a calcinite clay material on infield skinned areas and installed a new warning track of crushed red stone. The crew put down a new field-tested variety of certified 419 Bermuda turfgrass, chosen for its traffic tolerance, denser growth, and greater propensity for self-repair. "It's also more drought and cold tolerant," Stewart says.

After the modifications to the surface and sub-surface drainage system, Stewart says that now even after a 2-inch rain the water moves fast enough to make the field playable within 30-45 minutes.

Kurt D. Tisdale is manager, general construction, North American Commercial Division, Caterpillar Inc.

February 2004