

## Save These Dates . . .

**December 11, 2003**  
Annual Owners Forum, Project Estimating: Concept to Reality, "The Elusive Quest for Price Certainty"

**January 15, 2004\***  
On-Line Documents & Project Management

**January 29, 2004**  
Central Region Outlook

**February 11, 2004**  
B2B: Business to Business and Back to Basics

**March 28, 2004**  
Winter Social: American Originals, Treasures from the National Archives

**March 30, 2004**  
5th Annual Construction & Facilities Management Conference and Exhibition

\*Technology Breakfast Seminar Series

## Green Parking at Rentschler Field

**G**reen parking uses sustainable site design that focuses on minimizing impervious surfaces and providing more natural, environmentally friendly solutions for stormwater management. Rentschler Field, the new home of University of Connecticut Division 1-A Football team in East Hartford, Connecticut is a good example of such a project. Fuss & O'Neill, Inc., the parking consultant for the project, applied a four-step process.

### *Step 1: Determine need for parking*

The first step is to work with regulators to determine the appropriate amount of parking needed for the facility's use. This requires consideration of the frequency and timing of peak events, as well as the possibility of encouraging pedestrian access and the use of mass transit.

Since Rentschler Field is used for many different events, the expected attendance and the average number of passengers per car vary according to the event. For most small events, it was determined that 3,500 on-site parking spaces would be necessary. For a sell-out event, nearly 12,000 parking spaces would be needed.

### *Step 2: Identify alternative parking areas*

It is not always necessary to build all new parking areas to meet requirements. Other parking opportunities should be evaluated, including existing pavements and parking, shared parking opportunities, and found parking, such as restaurants, small lots, or even the driveways of friends.

Upon the analysis of the Rentschler Field project, it was determined that only 3,500

on-site parking spaces were required due to the availability of local commuter lots and abandoned runways and parking at the adjacent Pratt & Whitney facility.

### *Step 3: Minimize impervious pavement areas*

An evaluation of primary and overflow parking requirements was completed to determine if pervious parking could be used for some, or even all needs, as well as the design of efficient lots.



There are numerous types of pervious alternatives for parking including natural types (gravel or grass), modified pavements (pervious bituminous mixes), and alternative structural matrices (concrete and plastic matrices and root zone reinforcing fibers).

At Rentschler Field, processed aggregate drive aisles and reinforced turf fibers manufactured by Turfgrid were used for most parking areas. Impervious pavements were

(please see Green Parking on page 3)

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## Welcome New Members

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## Green (continued from page 3)

create a less desirable project. If properly considered, the concepts of green parking can be used to develop more environmentally compatible designs while decreasing construction costs and reducing maintenance requirements. Rentschler Field stands as an example of sustainable site design on a large scale, but the concepts used can be applied to almost any size project. ▲

## CT DEP Programs Provide Assistance

The Connecticut Department of Environmental Protection (DEP) offers three easy ways to help you find cost savings through pollution prevention and to learn about your permit and waste handling requirements: The Ombudsman's Office, the COMPASS program and the Pollution Prevention Office. Though these assistance programs are typically utilized by manufacturers, they also offer services to the construction sector. These services include the opportunity to review permit obligations prior to construction, review of building operations to identify energy efficiency opportunities, and assist with understanding the increasingly complex federal regulations governing the use, transport and disposal of hazardous materials.

*The Office of the Ombudsman* (860-424-3003) continues to promote improved environmental performance by providing a central point of contact for all stakeholders seeking information and assistance from the DEP. Some of the services of interest to the construction industry include:

- Scheduling/coordinating multi-media pre-application meetings in an effort to fully explain all permit application requirements and coordinating application processing
- Promoting compliance assurance through increased access to information via personal response and Internet access
- Participating in federal stewardship programs and administering the CT GreenCircle Award program
- Working in partnership with the CT Department of Economic and Community Development, other state agencies, and municipalities in outreach efforts to new and expanding businesses.

- Making referrals to and coordinating with other DEP programs and non-DEP service providers and providing outreach opportunities to promote compliance by better informing business and industry of applicable regulatory obligations.

The *Hazardous Waste Compliance Assistance (COMPASS) Program* (1-888-424-4193) provides help to Connecticut businesses and industries in complying with waste management regulations through outreach programs that disseminate information and offer site-specific assistance. COMPASS has three main components:

- A toll-free number for the regulated community is available to provide immediate access to DEP hazardous waste management staff for general compliance assistance information requests.
- The Waste Engineering and Enforcement Division (WEED) offers compliance assistance information through guidance documents and sponsors training conferences and seminars for the regulated community. A Compliance Assistance Handbook is also available.
- WEED offers consultative services in the form of site-specific conferences focusing on hazardous waste regulations applicable to the facility and its operations. DEP also offers on-site voluntary compliance audits to operators of new or expanding businesses.

Pollution prevention can mean more profits for your business. An effective pollution prevention program

*(Please see DEP Programs on page 4)*

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## Green Parking

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only used for special parking areas, high traffic areas, emergency vehicle access, and other similar areas.

### *Step 4: Design natural, sustainable stormwater treatment systems*

Sustainable site design is based on the use of sheet flow to minimize concentrated flows and the use of vegetated filter strips, grass swales, rain gardens, and bio filtration, wherever feasible. When stormwater pipes are needed, they should be designed with low slopes to decrease outfall velocity, and outfalls should be designed to minimize potential for erosion.

The stormwater treatment systems should also imitate nature to the maximum extent possible. This includes the use of bio filtration to remove sediments and the minimization of energy, settlement of sediments, and lessening of impacts to downstream peak flows. When natural alternatives are not feasible, concentrators or other structural alternatives should be used. Created wetlands for water polishing and removal of potentially harmful materials can often be used. At Rentschler Field, over an acre of wetlands was created to treat stormwater and also add to the diversity of wildlife habitats in the area.

Sustainable site design and green parking do not have to cost more or

*(Please see Green on page 2)*

## F O C U S

### 9th Annual State of the State Program



*Moira K. Lyons, Connecticut Speaker of the House and Moderator Ronald Van Winkle, Town of West Hartford*

Over 200 members and guests attended the popular October 30 program at the Radisson Hotel and Conference Center in Cromwell.

Highlights included presentations on Connecticut's budget crisis, Connecticut Legislative highlights, and a focus on Connecticut's towns and Cities.



*Dr. William Cianci, Construction Institute Executive Director*



*Kevin Sullivan, Connecticut Senate President Pro Tempore*

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**CT DEP Programs** (continued from page 2)

involves having a team of knowledgeable employees review and document the manufacturing processes, investigate areas of material loss, and make recommendations to prevent the loss or to reclaim and reuse the material. The Pollution Prevention (P2) Office (860-424-3297) offers a variety of services to help you identify and achieve your pollution prevention goals:

- On-site business pollution prevention assistance provided primarily through a partnership with the Connecticut State Technology Extension Program (CONN/STEP). Non-regulatory pollution prevention walk-throughs are also available.
- The Northeast Regional Technology Collaborative sponsors programs that

originate in the federal Department of Energy's Office of Industrial Technology. These programs, presented through the P2 Office, include motor master, improving steam efficiency, and funding pollution prevention projects.

In short, DEP provides proactive support for interested businesses offering a wide array of services that may be tailored to the special needs of the construction sector. Taking advantage of DEP's expertise may provide savings in energy cost as well as the potential to assist companies in streamlining compliance to avoid costly violations.

Call us. We're here to help you help us improve the quality of life in our beautiful state. ▲

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