



S.M.A.R.T. News

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ADA Compliance in Asheville, NC

The City of Asheville in North Carolina completed the College St. Streetscape Project in June, incorporating many technologies and design concepts. Numerous ADA compliant ramps were installed using "Brick Red" Step-Safe® precast polymer concrete tactile dome safety tiles manufactured by Castek, Inc., a subsidiary of Transpo Industries. The Step-Safe® product and onsite technical support was provided by Traffic Distributor Links, Inc. of Zebulon, NC.

The installation crews quickly learned how to efficiently install the Step-Safe® tiles. The crew made a template out of plywood the size of the tile pattern (2'x 8'). After pouring and bull-floating the concrete, the crew placed the board into and level with the concrete and scraped off the excess amount collecting at the edges. After the concrete became firm enough to work, the board was pulled and the Step-Safe® tile placed into the cavity and pressed to create a bond with the concrete.

The US DOT and the Access Board have published guidelines for detectable warning surfaces. Under these guidelines, construction work at a street intersection, crosswalk and adjacent pedestrian areas must be made ADA compliant. Compliance means the surface of the pedestrian approach to a street requires a ramp with a detectable warning surface.

Step-Safe® polymer concrete tiles have been used for street corner ramps, crosswalks, train/subway station platforms and commercial locations since 1993. Step-Safe® tiles are constructed of a special precast polymer concrete matrix, making them high-strength, resistant to wear, weather and corrosion, assuring a long life. The exposed coarse angular sand on the back side of each tile creates a strong bond when placed in fresh concrete or exterior grade tile mortars.

The City of Asheville installation crew stated the entire project was a rewarding learning experience and Step-Safe® Detectable Warning Tiles provided an important, functional and aesthetic compliment to the project.

EnviroSafe™ Stormwater Basin has Cutting-Edge Filtering Technology

As a longtime purveyor of road and parking surface products, Transpo Industries has realized another growing demand... controlling stormwater pollutant run-off. Unchecked growth of impervious surfaces, is contributing to exponential increases in stormwater run-off volumes and pollutant loadings. As rain or melted snow, run-off enters our watershed directly or via municipal separate stormwater sewer systems (MS4s). Typical of urban settings, little infiltration is realized through the surface. As a result, run-off flows across the land picking up pollutants that end up in our lakes, rivers and oceans. Stormwater pollution is responsible for beach closings, shellfishing bans and fish kills.

The 1987 amendments to the Clean Water Act charged the Environmental Protection Agency (EPA) with addressing stormwater runoff. In 1990, the first part of a two-phase program was initiated. The National Pollution Discharge Elimination System (NPDES) was aimed at MS4s and industry.

In response, **Transpo offers the EnviroSafe™ Modular Catch Basin Filtration System**, an economical retrofit to existing catch basins and stormwater sewer grates. Comprised of a basin housing a filter cartridge, this unit mounts at the point of entry grate. Along with a large basin capacity for trapping debris, the filter cartridge is designed for a wide range of pollutants including Total Suspended Solids (TSS), bacteria, hydrocarbons, oils, and metals.

Inside the cartridge, the modular construction includes open cell foam that is treated with an antimicrobial shield. In addition to filtering sediment this foam is highly effective against microorganisms like bacteria, fungus, and mold. Other layers incorporate coagulant-based and ion exchange processes for filtering hydrocarbons, oils, grease and heavy metals like cadmium, lead, copper and zinc. The high filtered flow rates and the overflow bypass designed into the basin alleviates flooding concerns.

As infrastructure grows to accommodate an increasing population, the stress to our environment is inescapable. Confronting these problems and providing solutions to industry and municipalities is a Transpo tradition. With EnviroSafe™ water resources are a precious asset Transpo is committed to protecting.



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Nebraska Installation of BODAN[®] Highway/Railroad Crossing System

The grain and cattle industry brings a large percentage of truck traffic to the area of route 81, 26 miles north of Norfolk, NE. The Nebraska Department of Roads, working closely with the Northeast Nebraska Railroad began searching for a solution to a crossing which had failed four times since 1990.

Transpo's BODAN[®] system became the best solution for long-term life for this busy railroad crossing. Fifty linear feet was laid in less than seven hours! Because of the immediate success of this project, a second project was planned for the spring of 2006.

The BODAN[®] precast polymer concrete panels "bridge" between the rails, thus eliminating any fastening to the cross ties. These unique modular panels make installation for any crossing possible, while allowing for easy removal during routine track maintenance. This is the only crossing system with optional **built-in flashing warning lights**, which could cut down on the the need for quad gates at some railroad crossings.



Crew lowers a precast polymer concrete panel into place

T-48 Chip Seal in SD for Bridge Preservation



The South Dakota DOT has used Transpo's T-48 Polysulfide Epoxy Chip Seal for over ten years to protect concrete bridge decks and restore their skid-resistance. With the proven performance of the T-48 materials they have completed multiple bridge rehabilitation projects every year. The Chip Seal system is accomplished by applying the specialized T-48 resin to the bridge deck surface with squeegees and then broadcasting a coarse-wearing surface aggregate onto the surface. Based on the success of the South Dakota installations, there are many states using the system and other State DOT's are considering T-48 as a low cost solution for bridge deck preservation.

Screen-Safe[™] Withstands Hurricanes in FL

Reports from the Florida Turnpike Authority confirm that the Screen-Safe[™] installation from June 2004 is still holding up well, despite several hurricanes of a category 2 (or higher) this past season.



Clint Moore Bridge, Palm Beach County, Florida