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SNOW & SALT PARADOX

Salt has been used since 1942 to keep concrete and asphalt snow and ice free. However, its impact is proving to be harmful to the environment and infrastructure.

NEW HAMPSHIRE ENVIRONMENTAL AFFAIRS CONCLUDED IN 2013:

Road Salt Pollution - Toxic to Fish, Invertebrates and Other Species

- EPA Acute Toxicity (kills fish quickly) = 860 mg Cl/L
- EPA Chronic Toxicity (kills fish slowly) = 230 mg Cl/L
 - Contaminates drinking water
- EPA Secondary Maximum Contaminant Level (MCL) based on taste = 250 mg/L of Na or Cl
 - * Associated with high blood pressure - EPA advisory limit 20 mg Na/L

Salt Destroys Vegetation, Infrastructure and Corrodes Vehicles

- No way to remove NaCl once applied
- Not removed by plants and does not stick to soils
- Desalinization is EXPENSIVE and impractical (high energy)

LIABILITY: The state of Maine* estimates the average lawsuit claim due to falls from untreated surfaces is \$33,000 according to statewide statistics.

*Maine Dept. of Labor

SALT USAGE: Salt use in New Hampshire has nearly doubled the past 40 years to about 190,000 tons (\$16.15M) per year or 21.5 tons per lane mile.

*New Hampshire Dept. of Environmental Services



BLACK ICE: Melting and refreezing causes black ice in Northern tier states. Using Heated PaveDrain could save lives by collecting the water before it ever hits the main highway.



ROADWAYS: Roadways become treacherous when driving in these conditions. Also, once the snow season is over and the budgets are exhausted, states and towns have to use street sweepers to clean the sand and salt costing even more money.



THE MOST EXPENSIVE SYSTEM EVER SOLD IS THE ONE THAT DOES NOT WORK ~ HENRY FORD

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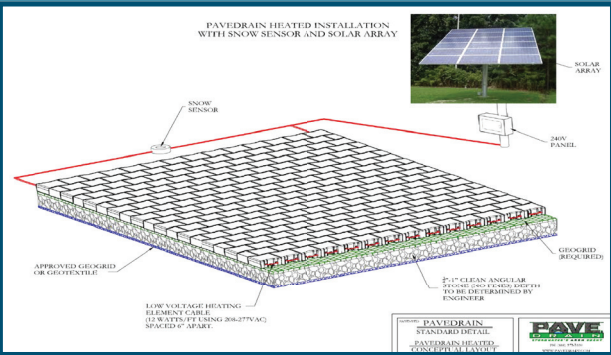
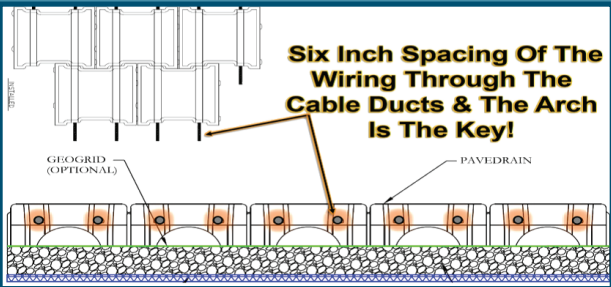
PaveDrain was able to achieve thermal mass from a cold start in 22 degree weather and melt 6" of snow in 8 hours.



PROBLEM SOLVED!

The PaveDrain system infiltrates at over 1,000 inches per hour (ASTM C1701). When HEATED the snow or ice does NOT run off and freeze downhill causing problems or liabilities for your neighbors. The PaveDrain system is environmentally friendly year round.

DON'T PLOW OR SHOVEL IT. MELT IT! COST EFFECTIVELY. ON SITE.



HEATED PAVEDRAIN is a combination of on site stormwater treatment and solves the expense of snow, salt and ice.

The patented innovative design of the PaveDrain system allows heating to occur near the surface via the cable ducts, quickly leading to thermal mass.

Applications:

- Parking Lots
- Driveways
- Sidewalks
- Intersections
- Shoulders of roads & highways

We approach the PaveDrain system with an efficient solution based methodology.

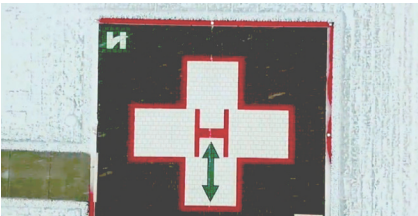
- **PEX TUBING**
(hydronic with glycol for antifreeze)
- **LOW VOLTAGE ELECTRIC**
- **HOT WIRE - LINE VOLTAGE**



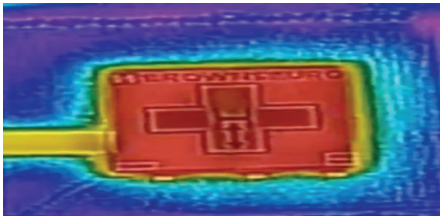
Ice & snow FREE walkways



Eliminate costly snow storage and plowing damage



Landing Area is Snow & Ice FREE



Actual Thermal Imaging

Photos courtesy of Lily Helipads, LLC

