

The New York State Department of Transportation (NYSDOT) has not adopted a comprehensive PCC pavement sustainability strategy. NYSDOT recognizes that PCC pavements have "sustainable" characteristics. Interestingly, the characteristics that make PCC sustainable can conflict with other sustainable efforts, begging the question, "Is any pavement truly "sustainable?""

- of goods and services needed to sustain our economy. Those same networks also foreign energy – at least for the present.
- increases our "carbon footprint" and contributes to global warming.
- 3. PCC pavements have very high load carrying capacities and are designed for 50 year on the other hand, is a significant source of carbon dioxide and mercury.
- "Build It To Last."
- sidewalks. Those features are expensive.

NYSDOT typically constructs PCC pavement for our most trafficked and heavily loaded pavements. Traffic, and maintaining it through work zones, can work against sustainable practices.

- zones encourage production efficiencies.
- durability we have become accustomed to with standard PCC mixes.
- unless a reactive coarse aggregate is selected.
- expensive, often made with HES concrete, and do not have a long service history.

PCC Pavement Sustainability in New York Economy, Environment, and Society: 2 Out of 3 is Easy Bill Cuerdon, NYSDOT

1. PCC pavements, and pavement networks in general, allow the safe and efficient movement encourage sprawl which claims land and other resources while increasing dependency on

2. Pavement networks have helped people experience a high quality of life. For many, it may be a relatively short drive to virtually anything. It has been argued that this convenience

service lives in New York. Long life is PCC's most sustainable feature. Cement production,

4. NYSDOT will overlay PCC pavements (with either HMA or PCC) after decades of service. It is not unreasonable to expect a smooth, quiet, low rolling resistant, PCC pavement constructed today to carry loads for 100 years. The best sustainable pavement practice is

5. NYSDOT has constructed beautiful, high capacity PCC pavements in urban areas with impressive planted medians and architecturally enhanced crosswalks, parking lanes, and

6. Recycled PCC pavement is frequently used as subbase or used in commercial concrete.

1. Smaller work zones can result when a project is designed to minimize traffic delay. This can increase total construction duration, emissions, and user delay costs. Larger work

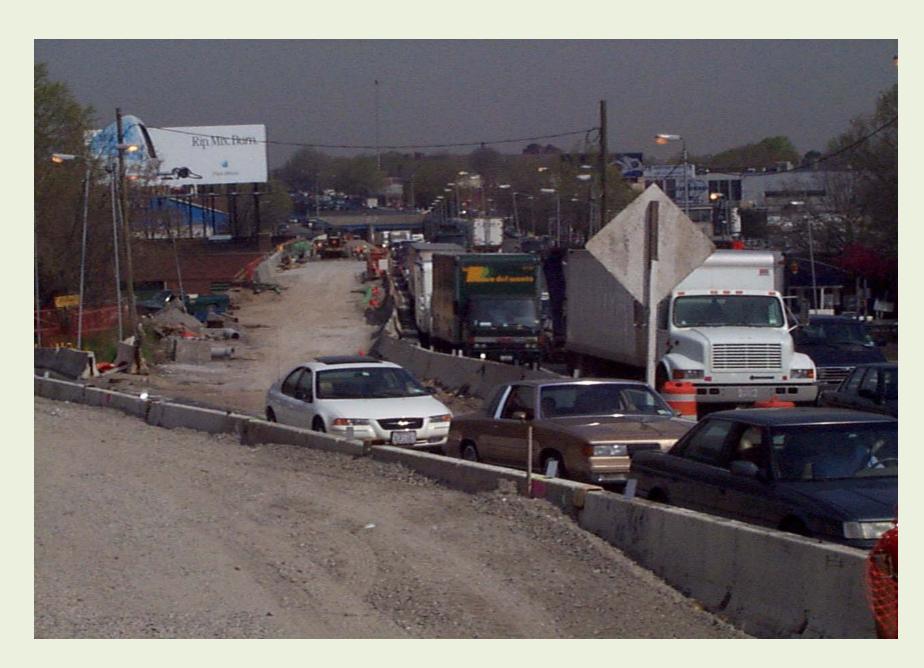
2. Working under traffic can increase the use of high early strength concretes. HES concretes are more expensive, use more cement, and are less likely to have the excellent long-term

3. Accelerated construction to accommodate traffic discourages using fly ash, slag, or other supplementary cementitious materials. NYSDOT allows SCMs, but does not require them,

4. NYSDOT uses precast slabs to ensure traffic is not interrupted during rush hours. They are



Longitudinally Tined and Quiet



Small Work Zones Decrease Efficiency



PCC Roundabout Will Move A Lot Of Traffic A Long Time



Precast PCC Pavement







Unbonded PCC Overlay Test Section Atop Rubblized, Cracked and Seated, and Non-Fractured PCC Pavement





Colored, Stamped PCC X-Walk. Nice and Safe.

Colored, Stamped Parking and Exposed Agg Sidewalks



PCC Pavement Rebuilds Lower Manhattan