

**Perpetual Pavement: Time Has Come**  
by  
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Total pavement reconstruction, the remove-and-replace option, is rendered virtually obsolete. The only pavement rehabilitation needed would be replacement at about 20-year intervals of the hot mix asphalt (HMA) surface.

With HMA, we have the technology to achieve just that through Full-depth, deep-strength, rubblization of the in-place pcc and overlay with HMA by initially constructing a perpetual pavement design. The concept is not a new one. In fact, full-depth and deep-strength asphalt pavements have been built since the 1960's. Today, recent efforts in materials selection, mixture design, performance testing, and pavement design offer a methodology to obtain performances exceeding 50 years from asphalt pavement structure, while periodically replacing the pavement surface and recycling the old pavement material.

Perpetual Pavements have three distinct features: a rut-resistant and wear-resistant surface layer; a rut-resistant, durable intermediate layer; and a combination of adequate asphalt thickness and flexibility to resist deep fatigue cracking (Figure 1).

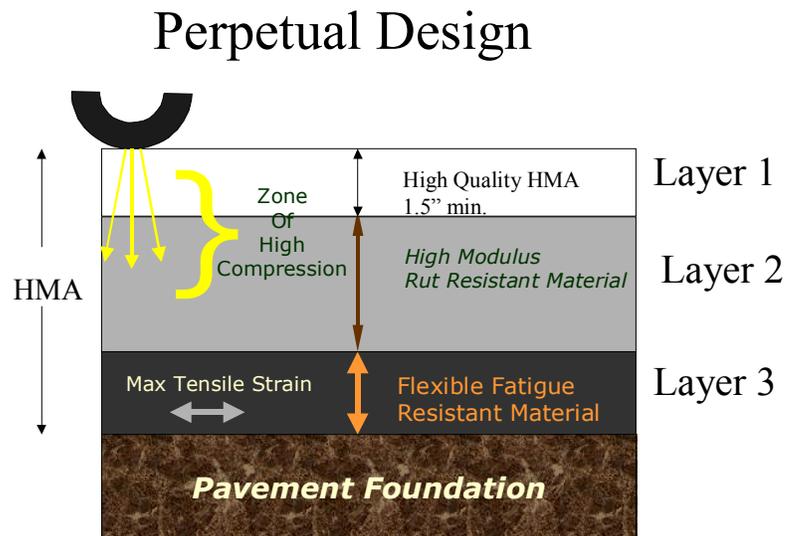


Figure 1

“Perpetual Pavement is engineering so that any distress that occurs is confined to the upper pavement layer,” explains Dr. David Newcomb, Vice President for Research and Technology at the National Asphalt Pavement Association (NAPA). “At some point in time, say, at about 20-plus years, you go back and mill out the surface and replace it with a new surface.”

With Perpetual Pavement, contactors can maintain and even enhance an aging pavement, rather than breaking it up and hauling it away such as with pcc, because the original structure is still sound and has great value.

A Perpetual Pavement is the ultimate engineering approach to the most cost-effective investment as a preventive maintenance strategy.

In addition, the process is environmentally friendly because the pavement material that is milled off is 100 percent recyclable.

Perpetual Pavement with HMA is “engineered HMA technology” structured for our future transportation needs.

For more information about HMA, visit the following web sites:

- [www.asphaltalliance.com](http://www.asphaltalliance.com)
- [www.asphaltisbest.com](http://www.asphaltisbest.com)