

2004 Perpetual Pavement Minnesota TH 10

The Asphalt Pavement Alliance (APA) recently announced that the Minnesota Department of Transportation (Mn/DOT) has won its' third Perpetual Pavement Award, this time for a section of Trunk Highway 10 in Anoka. Mn/DOT received Perpetual Pavement Awards in 2002 for I-35 near Willow River and in 2003 for TH 71 south of Park Rapids.



To qualify for this prestigious award, a pavement must meet strict criteria and demonstrate Hot Mix Asphalt's long-life characteristics, excellence in design, quality in construction, and value to the traveling public. The award is given to owners of asphalt pavements that are at least 35 years old and have never had a structural failure. The average interval between resurfacing of each winning pavement has been increased to no less than 13 years. Nominations for the Perpetual Pavement Award were evaluated by engineers at the National Center for

Asphalt Technology (NCAT) and the winners were validated by a panel of industry experts.

The Perpetual Pavement Awards were presented at a special ceremony at NCAT, May 18, 2005. Each winner received an engraved crystal obelisk and a plaque. The names and project information will be added to a plaque which is on permanent display at NCAT. "This road has lasted because of good structural design and good pavement design," commented Patrick Hughes, Mn/DOT Metro District Engineer, lower right in picture below. "The wearing course that we used back in 1962 was 100 percent crushed material—probably close to the SuperPave materials of today."

The award-winning pavement is TH 10 between milepost 224 and 227. The highway was opened to traffic in 1966. The original construction of the road consisted of 18 inches of select granular material, 6 inches of aggregate base, 3 inches of bituminous base, and three inches of bituminous binder course with 1-inch of Hot Mix Asphalt (HMA) surface.



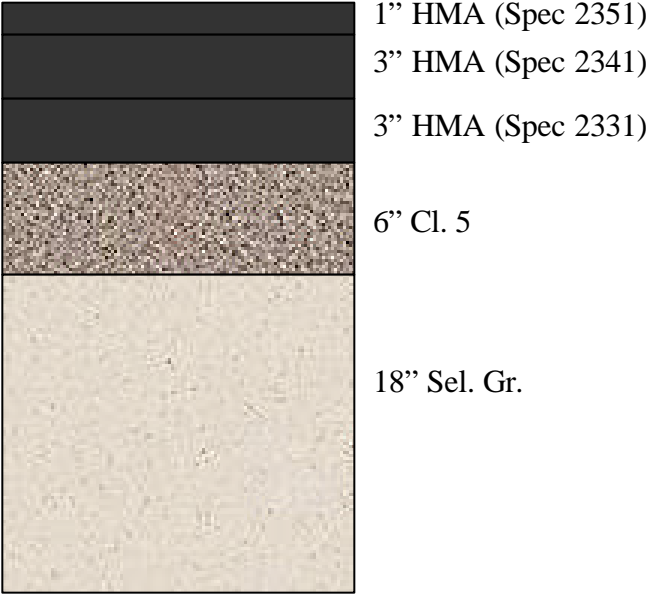
Since its construction, the road has withstood 13.5 million ESALS (Equivalent Single Axle Loads). The contractor on this project was the Duininck Brothers/Gilchrist Company. Since the original construction in 1966, the pavement was overlaid with a 3/4-inch wearing course in 1978, then milled two inches and overlaid with 3.5 inches of HMA.



“Even though this pavement has been punished by more than 35 years of use, motorists are still using the original pavement structure,” said Larry O’Donnell, APA Co-Chairman. “The extraordinary performance of this pavement is worthy of attention.”

“Perpetual Pavement is an industry standard which is extremely well represented by this highway,” added Luke Stango, APA Co-Chairman. “Long life, durability, and exceptional performance are hallmarks of Hot Mix Asphalt. This pavement is testimony to high-performance asphalt as a marriage of excellent design and quality construction.”

2004 Perpetual Pavement Award, TH 10 in Anoka, Typical Section



1978 (12 years of service) 3/4” Overlay (Spec 2361)
1994 (28 years of service) 2” Mill & 3.5” Overlay (Spec 2340, Type 47)

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