**ALTERNATE BID #1 = "PG Binder & Fibers"**

For those agencies preferring a cost-effective option to the ASTM D 6690 rubberized material, PG 64-22 binder with 6 to 8% polyester reinforcing fibers has been a proven performer throughout the northeastern United States. In an over-banded application, the superior elastic recovery and adhesion properties of the asphalt binder reduces sealant failures as compared to more brittle materials. Additionally, the polyester reinforcing fibers further enhance long-term performance by better distributing the tensile stresses caused by both traffic and thermal expansion/contraction than unreinforced materials.

**ALTERNATE BID #2 = "Polymer and Crumb Rubber Modified Binder & Fibers"**

For agencies preferring a high-performance version of the PG 64-22 binder with fibers material described in Alternate Bid #1 above, a newer sealant comprised of polymer and crumb rubber modified (PCRM) asphalt binder with 8% polyester fibers has been designed to meet the latest FHWA material stress creep recovery (MSCR) testing standards. Modification includes 7% ground tire rubber (80-mesh) and 3-4% polymer, and the modified binder meets PG 64-28E ("Extreme") grading requirements in accordance with AASHTO M320. This combination of highly modified asphalt binder plus a heavy dosage of polyester reinforcing fibers has been engineered to perform well across a wide range of New England weather conditions, remaining stable at higher summertime temperatures, and yet flexible in colder winter months.