

Transportation & Natural Resources Service Life and Costs For Reconstruction/ Spot Reconstruction/ Rehabilitation and Surface Treatment Types

Treatment Type	Description	Initial In-house Cost/mile (TNR crew)	Out-source cost/mile	Maximum Service Life
Bond Reconstruction Recon R1	Remove and discard existing paving materials, Stabilize sub grade to 12", add 12"-24" of flexible base, cover with 2"-4" HMAC; may include Geotextile. Two course at 12 years.	Not feasible with existing resources	\$650,000 to \$850,000	20 years
Bond Reconstruction Recon R2	Remove and discard existing paving materials, stabilize sub grade up to 12", add 8"-12" flexible base, cover with 2" HMAC. Thin overlay in 12 years.	Not feasible with existing resources	\$550,000 to \$650,000	20 years
Spot Recon.	Recycle existing materials in-place, add 6"-10" of flexible base, inject oil, and cover with two-course chip seal.	\$225,000	\$300,000 to \$400,000	10 years
In-House Rehab.	Recycle existing paving materials in-place, inject 6" of oil, add 2"-4" flexible Base and cover with two course chip seal.	\$170,000	\$225,000 to \$325,000	8 years
Overlay IVA	Level up existing surface with HMAC; add 1 1/2" HMAC surface.	Not feasible with existing resources	\$77,000	5-7 years
Type "F"	Apply 3/4" thick Type "F" mix to existing surface.	Not feasible with existing resources	\$35,000	4-5 years
Seal IV	Level up existing surface with HMAC, add two course chip seal.	\$58,000		5-7 years
Seal IID	Grade and oil, add two course chip seal to existing surface.	\$36,000		3-5 years
Seal IIB	Apply two course chip seal to existing surface.	\$32,000		3-5 years
Seal IIC	Apply single course trap rock to existing surface.	\$21,000		3-5 years
Seal IIA	Apply single course chip seal to existing surface.	\$16,000		3-5 years