Tensar_®

<u>Research Organization</u> Ingios Geotechics, Inc.

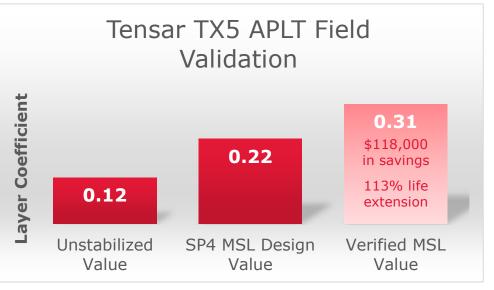
Section Tested 6-inches of base over TX5

Testing Conducted

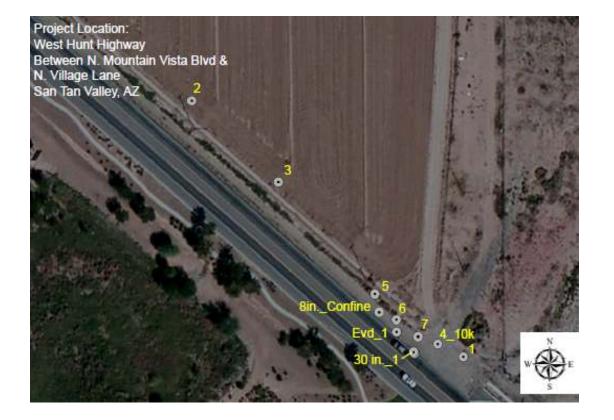
Mr of the mechanically stabilized base course Mr of the subgrade Mr composite modulus Modulus of subgrade reaction (k) ev1 and ev2 strain modulus testing Resilient deflections (scaling exponent)

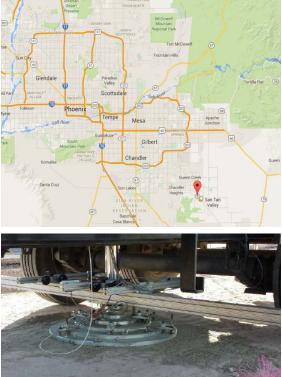
Mr (Ave) base	155,694 psi
Mr (Ave) subgrade	16,144 psi
Mr (Ave) composite	34,251 psi
Ev2 (top of stabilized base)	15.23 ksi
Ev2/Ev1 Ratio	1.60
K-value (stabilized)	392 pci





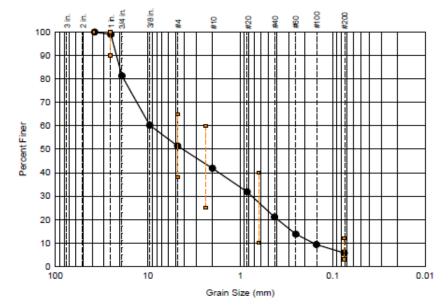


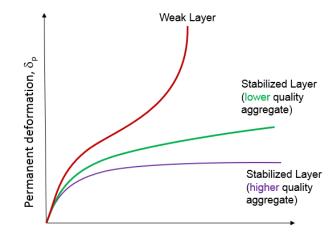




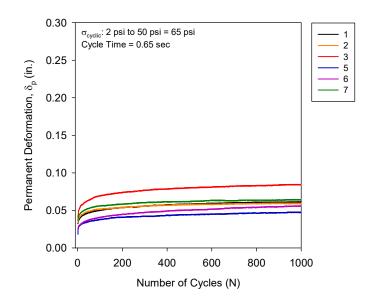






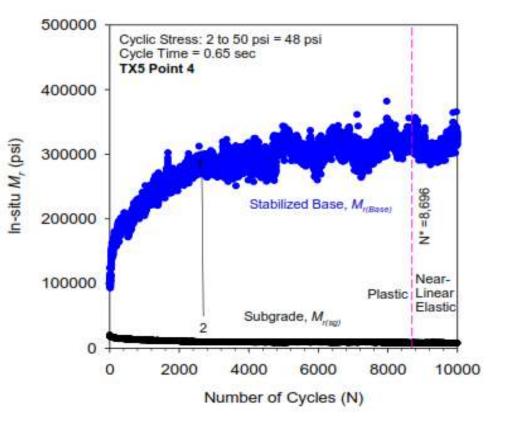






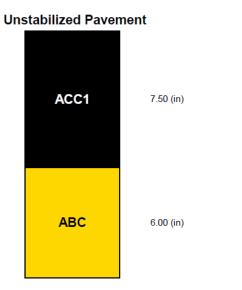
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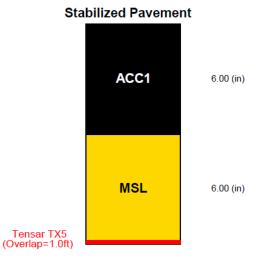
"For the 10,000 cycle test, the in-situ resilient modulus rapidly increased in the aggregate base layer for the first ~3000 cycles and then continued to increase at a slower rate. Based on a permanent deformation rate of 0.0001in./cycle the transition from plastic deformation accumulation to near-linear elastic occurs at $N^* = 8,696$ cycles. At N*, the in-situ *Mr* was about 321,881 psi (2x higher than the average value from the 1000 cycle tests)."



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Pavement Design Options



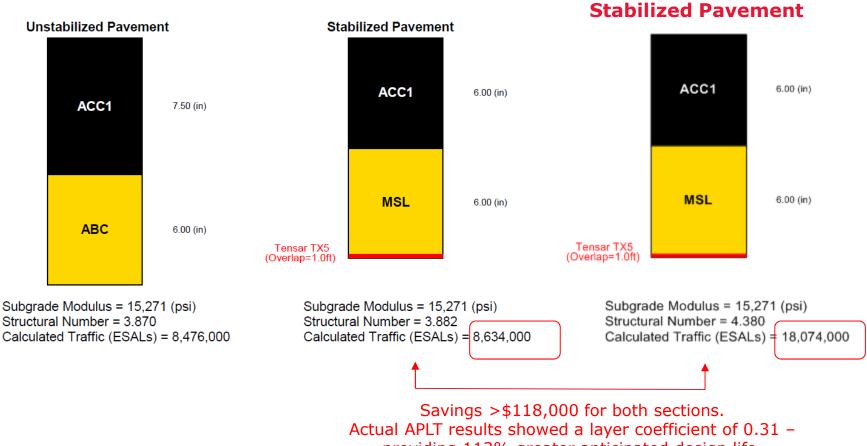


Subgrade Modulus = 15,271 (psi) Structural Number = 3.870 Calculated Traffic (ESALs) = 8,476,000 Subgrade Modulus = 15,271 (psi) Structural Number = 3.882 Calculated Traffic (ESALs) = 8,634,000

Savings >\$118,000

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Actual Tested Values of the



providing 113% greater anticipated design life.



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- Significant improvement in structural contribution (layer coefficient) with TX5
- Savings of greater than \$118,000
- Estimated 113% greater design life
- K-values, Ev1 and Ev2 values established