

Pyramat[®] Helps Restore Rural Beauty

PROJECT

Jumbo Grade

Location

Washoe Valley, Nevada

Installation Date

November, 1999

Owner

Washoe County

Engineer

Washoe County PWD
Stantec

Contractor

A&K Earthmovers

Product & Quantity

Pyramat – 4500 SY

Approving Agency

Washoe County Public Works Department
NRCS

Usage

Pyramat[®] High Performance Turf Reinforcement Mat (HPTRM) was used to line the channel in between gabion drop structures in this trapezoidal channel.

Notes

High flow velocities were causing a significant amount of erosion in this rural N. Nevada drainage channel, impacting horse stables on the West bank and depositing sediment in environmentally sensitive Washoe Lake. To control this erosion problem, Jumbo Grade drainage channel was to be regraded and lined with 36" riprap. In an effort to keep the channel aesthetics natural, gabion drop structures were used to reduce the water velocity to 14.5 fps, which allowed for the use of Pyramat[®] HPTRM to line the channel in between the gabion drop structures. One concern with using a TRM for Jumbo Grade was the potential for the horses' hooves to puncture the material. But with a tensile strength of 3000 lb/ft, almost 20 times the strength of a standard TRM, Pyramat[®] HPTRM could easily handle the added stresses. A native seed mix was used to restore the natural vegetation in the channel and after a full growing season, Jumbo Grade was permanently protected with Pyramat[®] reinforced vegetation.

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