

ADOT SR 202 FREEWAY EXPANSION

MESA, AZ



Application:	Retaining Wall Drainage
AWD Product:	SITEDRAIN Sheet 94
AWD Product:	216,000 SF
Owner / Designer:	Arizona Department of Transportation
Contractor:	Kiewit Western Co. / Sundt Construction Inc.
Year Completed:	2009

PROJECT OVERVIEW

Retaining walls require proper drainage to reduce hydro-static pressure. Low permeability soil layers can trap water against below grade structures. Hydrostatic pressure build-up can compromise retaining wall stability, leading to cracks, leaks, and in extreme cases, structural failure.

As with the majority of state DOTs throughout the country, the State of Arizona Department of Transportation (ADOT) has formally recognized the many benefits of using geo-composite sheet drain products in lieu of traditional perfo-rated pipe and/or aggregate drainage systems in retaining wall (and other) drainage applications. ADOT includes sheet drain products both in their standard design specifications and on their approved products list. The ADOT SR 202 Free-way Expansion project required 216,000 SF of sheet drains to ensure retaining walls were structurally secure. SITED-RAIN Sheet 94 was installed, providing ADOT the most efficient, sustainable and cost effective construction solution for this project.

AWD worked directly with ADOT, the contractor, and our distributor, providing the project team with the technical expertise and product knowledge to help them select the appropriate sheet drain product to meet the specification and project requirements.

