



# CHECKMATE PROJECT PROFILE

## ANNIS ROAD UPGRADE 2006

### CHALLENGE:

In rural areas, past road construction employed available materials regardless of quality, resulting in soft base conditions. This, in conjunction with soft and improperly prepared subgrade, results in roads which are subjected to extensive rutting and cracking under normal traffic conditions, and hence a very short life. Maintenance and upgrading of these roads is costly due to a short service life.

### PRODUCT:

RG5050 is a biaxial geogrid which is specially treated to withstand high temperatures and is to be placed between overlays of asphalt. The individual yarns of the geogrids are impregnated with bitumen to achieve a high bonding with the asphalt.

### SOLUTION:

Checkmates RG5050 prevents reflective cracking (when cracks in the original lift of asphalt project upwards into the more recent overlay), and prevent rutting by providing structural support in the asphalt overlay. By using RG5050, the overall thickness of the asphalt overlay can be reduced with no adverse impact on structural integrity, resulting in savings to the owner and a longer service life.



Longitudinal cracking and rutting, from localized base failure.



Placement of the Checkmate RG5050



Placed RoadGrid in outer wheel wells



**CHECKMATE**  
GEOSYNTHETICS

T: 604.824.4963

F: 604.648.9362

[www.checkmategeogrid.com](http://www.checkmategeogrid.com)

303-44500 South Sumas Road  
Chilliwack, BC  
Canada V2R 5M3

PROJECT: Annis Road Upgrade 2006

OWNER: City of Chilliwack

PRODUCT: Checkmate RoadGrid 5050

CONTRACTOR: Martens Asphalt Ltd., Chilliwack, BC