

PROJECT DATA

GM HIGH FEATURE TEST FACILITY (HFTF)

MILFORD, MI

Client

General Motors Global Headquarters
200 Renaissance Center
Detroit, MI 48243
Alicia Washeleski
248.685.4226

Architect

Arcadis
25200 Telegraph Road
Southfield, MI 48034-2599
Hi Wang
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Size

54,050 sf

Cost

\$13,000,000

Date Completed

December, 2004



The General Motors High Feature Test Facility is the designed/built of two full-feature climatic wind tunnels that are capable of simulating just about any driving condition found on the face of the earth. These tunnels are equipped with technical systems that allow temperature simulations to such extreme temperatures as -40°C - 55°C (-40°F - 130°F), while also often providing such capabilities as sunlight simulation and humidity control. It is not uncommon for wind speed in these facilities to exceed 200 kilometers per hour (150 miles per hour) while simultaneously allowing a test article such as a automobile to be dynamically loaded through the use of an integral (to the wind tunnel) dynamometer. It is also not uncommon for a wide range of vehicles and components to be tested at this facility.

This facility will help General Motors develop and validate their next-generation powertrain products in a timely fashion by allowing testing currently completed on the road to be executed in a controlled, repeatable and climatically robust laboratory environment.

Unique features: Altitude simulation in conjunction with full-feature climatic wind tunnels, allowing for emissions measurements in a laboratory setting. Building demands included additions to existing building, site remediation and building consistency.

