



GEO-FOUNDATIONS Contractors Inc.

Renaissance ROM



Date: 2003

Technology: Anchored Shotcrete



Application of shotcrete at east wall, third bench

The Renaissance ROM project, featuring the new Michael Lee Chin Chrystal designed by architect Daniel Liebskind, rises above Bloor Street in Toronto in dramatic fashion. Part of the excavation required to construct this new addition to the 90-year old ROM was made possible by permanent anchored shotcrete underpinning constructed by Geo-Foundations. Three vertical cuts within the influence of existing ROM footings were supported by more than 320 square metres of shotcrete facing, tied back by 134 post-tensioned, permanent soil anchors. The shotcrete was reinforced by a double layer of galvanized welded wire mesh and constructed complete with the Drain Great® system of vertical back wall drainage strips and base collection piping.



Anchored shotcrete progress, west elevation



Drilling of soil anchors, east elevation