

# **GSE - November 20, 2001 Talk**

TOPIC: Geotechnical Challenges Facing the Next Leg of Edmonton's South LRT Extension

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The proposed south extension of the City of Edmonton's Light Rail Transit system involves the construction of two 6.2-m-diameter tunnels over a distance of about 355 m from the existing University Station and the proposed Health Science Station. The invert of the tunnels will rise from an elevation of 650.3 m at the University Station to about 672 m at the Portal at an average grade of 6%. Unlike previous sections of the LRT, this underground segment will intersect all of Edmonton's major geological stratigraphy: clay shale bedrock; glacial till, outwash sands and lacustrine Lake Edmonton clay. The fine outwash sands will present the greatest tunnelling challenge, particularly beneath the University Campus where settlement tolerances must be strictly controlled.

Venue: Royal Glenora Club (11160 River Valley Road)

Time: 12:00 noon

Date: Tuesday, November 20, 2001

Cost: \$10 GSE Members, \$15 Non-Members