



## Supply of new TBM to City of Edmonton, Alberta, Canada



LOVAT is pleased to announce the recent sale of a new LOVAT MP159SE Series 25500 Tunnel Boring Machine to the City of Edmonton, Department of Public Works and Asset Management.

The 4.03 metre diameter TBM is equipped with LOVAT Type ripper teeth, scraper teeth and a 4 spoke cuttinghead design for soft ground excavation. The cuttinghead is powered by a hydraulic drive system (600 kW) with maximum torque of 3,000 kN·m at 1.9 rpm. The TBM has been provisioned for the future installation of a screw conveyor to allow operation in Earth Pressure Balance mode.

The TBM will be used to bore the Mill Woods Double Barrel Replacement Storm Trunk at a length of 1,750 metres and a maximum slope of 0.10%. The entire tunnel alignment is below groundwater level in impermeable soils with a depth of cover varying from 30 to 37 metres. The subsurface profile along the tunnel alignment consists of variable thicknesses of low strength clay shale and sandstone.

Edmonton will utilize financing from Caterpillar Financial Services for the purchase of the TBM. This facility is now available to all LOVAT customers. LOVAT is also supplying technical assistance for TBM assembly, testing and the initial drive. The TBM is scheduled to be delivered mid 2009.