

City of Edmonton South LRT Extension

SEGMENT MANUFACTURING

EDMONTON, ALBERTA



City of Edmonton South LRT Extension Twin Subway Tunnels-Portal to Existing University Station

COMPLETION DATE

May 2004

VALUE OF CONTRACT

\$20,000,000.00

OWNER

City of Edmonton
Contact: Brad Griffith
780-496-6614

CONSULTANT

Stantec Consulting Ltd.
Contact: Bart Becker
780-917-7293



Project Description

TUNNEL MINING DIMENSIONS

300m of 6.4m Ø Tunnel Mined at 6% downgrade. Majority of tunnel consisted of 240m Radius Curve

EXCAVATION METHOD

Lovat Earth Pressure Balance (EPB)
Tunnel Boring Machine – 6.4m Ø

GEOLOGY

Glacially deposited material consisting of clay layer, dry uniform sand layer, silty/sand with Hydrostatic Pressure reaching 2 bar & layer of bedrock

TUNNEL LINING

One Pass, 7 Piece Precast Concrete Segments 250mm Thick by 5.8m Internal Ø, 1.2m long

