

Project Title : WIDENING OF LOYANG AVENUE FROM LOYANG WAY TO CHANGI VILLAGE ROAD

Owner : Land Transport Authority
Engineer : Land Transport Authority
Main Contractor : Eng Lam Contractors Co (Pte) Ltd
Contract Sum : S\$ 159,000.00 (excludes steel reinforcement)
Period : Dec 2004 to Jan 2005

Scope of Works : 9 nos of 1000mm diameter contiguous bored piles (with multi layers G1-G3 granite boulders)

The original piling contractor had completed 241 out of 250 nos contiguous bored piles.

Eng Lam Contractors Co (Pte) Ltd engaged us to complete the remaining 9 nos contiguous bored piles as the original piling contractor was unable to overcome the multi layers granite boulders

Contiguous bored pile lengths generally between 20.5 & 22.0m. Multi layers G1 to G3 granite boulders of sizes up to 7m were cored.

Sub soil condition : 0 to 13/15m soft to stiff reddish brown sandy silt
bet 13 & 22m strong to very strong granite boulders (UCS : 80 to 150 N/mm2)
> 15/22m stiff reddish brown sandy silt

Stabilization fluid : polymer

- Major equipment deployed : Tool :**
- Boring Rig Soilmec R618
 - 50 ton crawler crane
 - ICE 423 vibro
 - Excavator
 - Polymer plant
- Rock roller bit core barrel
 - core barrel, rock auger, chisel, rock bucket & cleaning bucket.
 - Casing lengths bet 10 & 21m



rock cores for CBP No. 54

