

**Project Title : UPGRADING OF ROAD SYSTEM AT SENTOSA GATEWAY-
HABOURFRONT (ER 251)**

Owner : Land Transport Authority

Engineer : T Y LIN INTERNATIONAL PTE LTD

Client : SAMWOH CORPORATION PTE LTD

Contract Sum : S\$ 602,214.50

Period : Dec 2008 to Mar 2009



Test pile by Reaction Tension Piles

Scope of Works : 1no of 700mm, 14 nos of 800mm & 5nos of 1000mm diameter bored piles

**Pile lengths approximately 10 & 25m with rock socketing into siltstone /sandstone
Casing installation with rotary method as project site was within MRT's Reserves**

Sub soil condition :
0 to 2/3m M Dense Clayey Sand
2/3 to 5/6m Soft Sandy Silt with Peat
5/6 to 7/10m V Stiff SandySilt
7/10 to 10/14m Hard Sandy Silt
> 10/14m Siltstone / Sandstone

Stabilization fluid : polymer

Major equipment deployed :

- Boring Rig Bauer BG28 / Soimec R618
- Crawler Crane – 55 ton
- Excavator
- Rotary drive adaptor
- Polymer plant

Tools :

- Boring Bucket, Auger, Core Barrel,
Rock Roller Bit Core Barrel & Cleaning Bucket
- Casing lengths 5-10m

Pile Load Tests :

- Osterberg Cell, Tension Piles Reaction Method

