

**Project Title : CITY SQUARE MALL – URBAN PARK**

**Owner : City Development Limited**

**Architect : Ong & Ong Architects Pte Ltd**

**Engineer : Meinhardt (Singapore) Pte Ltd**

**Client : Kajima Overseas Asia Pte Ltd**

**Contract Sum : S\$ 1,462,000.00 (w/o materials)**

**Period : Aug 2008 to Dec 2008**



**Scope of Works : 126 nos of 800/900mm diameter Secant Pile Wall for underpass from Farrer Park MRT Station to City Square Mall (within 1<sup>st</sup> & 2<sup>nd</sup> Reserves)**  
 - secondary pile G35 concrete (25-40m) & primary pile G20 concrete (13m)  
 - over cutting between primary & secondary pile : 300mm  
 30 nos of 800mm diameter Bored Pile (length upto 45m)  
 12 nos 600mm diameter king post bored pile (length upto 30m)

**Sub soil condition :**

0 to 2/4m	Sandy Fill
2/4 to 4/6m	Marine Clay
4/6 to 22/28m	Loose to m dense fine sand
> 22/28m	V dense silty sand / hard sandy clay

**Stabilization fluid : polymer / bentonite**

**Major equipment deployed :**

- Boring Rig Bauer BG28 & Soilmec R618
- Crawler Crane – 55 ton & 70 ton
- Excavator, Oscillator, Polymer plant

**Tools :**

- Boring Bucket, Auger, Core Barrel, & Cleaning Bucket
- Double wall casing length 13/35m

**Pile Tests : PDA & PIT**

