

Bungalow @ Bukit Tungku

(Hill Slope Development Solution)

Platform creation and strengthening of slope stability using multi-tier caisson pile wall

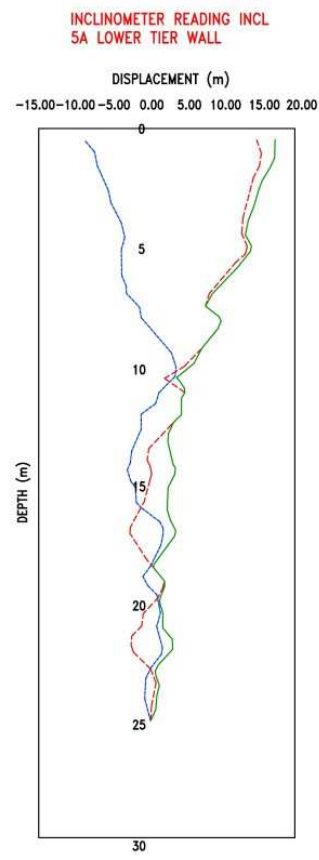
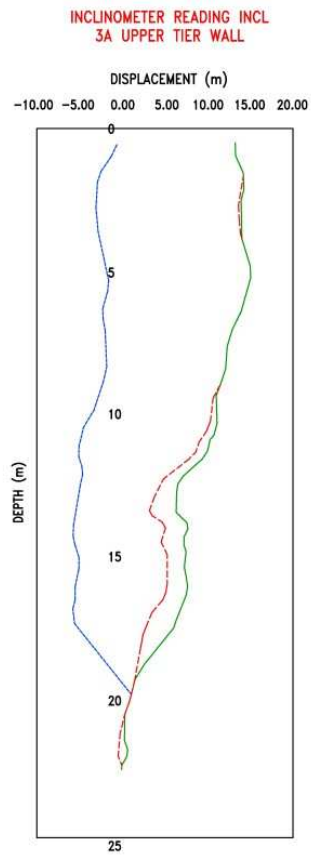
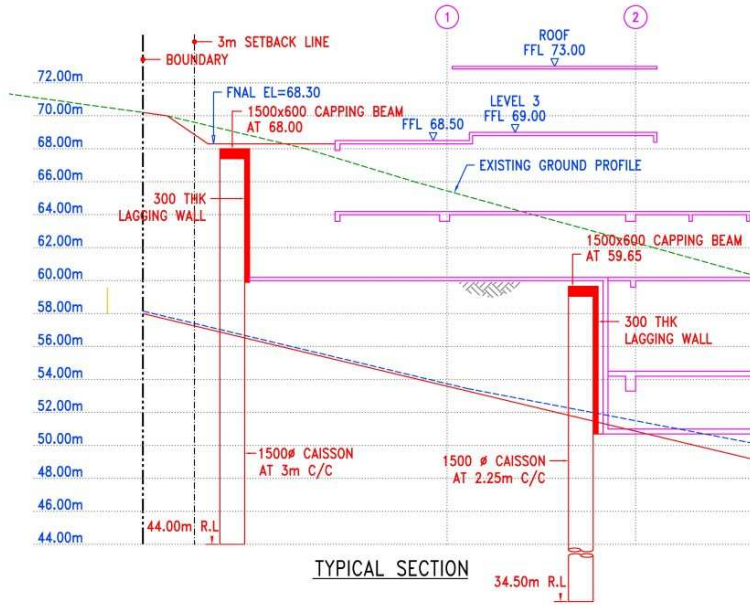
The Construction and Completion of two tiers high contiguous caisson pile wall for a bungalow development at Bukit Tungku

(by Ir. Oh Chin Wah, Executive Director) (2010 Jan-Mar)



Two tier caisson pile wall design configurations:

1. Upper tier: caisson pile 1500mm diameter space at 3.00m c/c.
2. Lower tier: caisson pile 1500mm diameter space at 2.25m c/c.
3. The free-standing height of upper tier wall is 8m and the lower tier wall is 8.95m respectively.
4. These two rows of caisson pile wall are spaced at approximately 16.5m between each other.
5. The total pile length for upper tier caisson pile is 24m length with 16m penetration length below platform level.
6. The total pile length for lower tier caisson pile is 25m length with 16m penetration length below platform level.
7. Upon successfully completion, the final maximum wall displacement at the top wall for the upper tier wall is 15.07mm and the lower tier wall is 16.60mm.



- 3/10/2010 A(mm)
--- 3/10/2010 A(mm)
- 3/10/2010 B(mm)
--- 3/10/2010 B(mm)
- 3/10/2010 TOTAL(mm)
--- 3/10/2010 TOTAL(mm)