# Project Cases of HK with the use of various systems of Self-Climbing Formwork

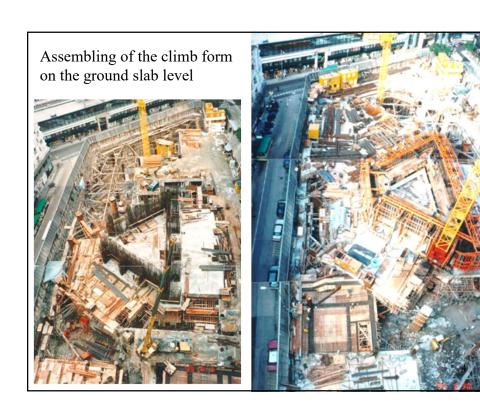
prepared by Wong Wai-man, Raymond as part of his presentation series for the sharing of his long-year of construction studies in the related field

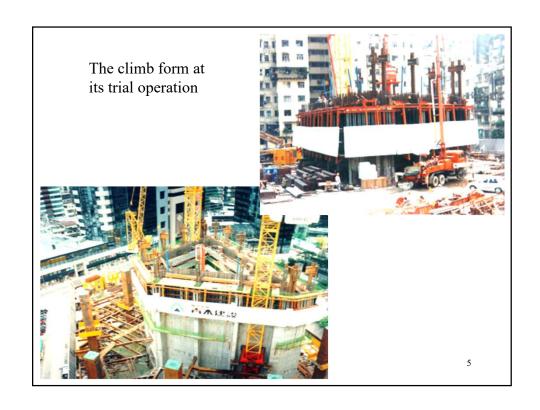
#### Case 1

Lee Garden Hotel Redevelopment

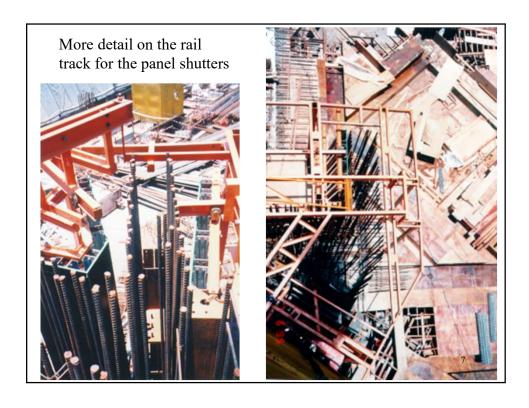
- 50-storey office building
- inner core constructed in reinforced concrete
- outer frame in structural steel
- RC core constructed using the VSL climb form -- self-lifting formwork system using hydraulic jacks













section of the core wall changed



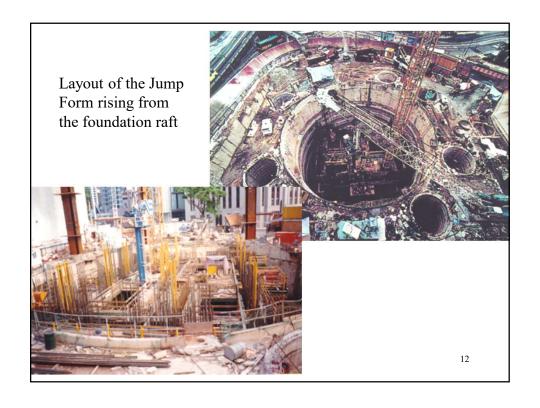


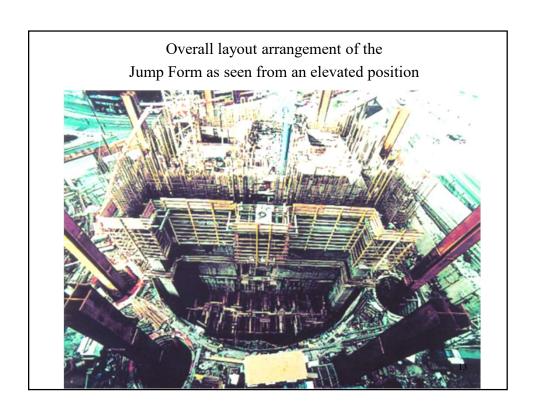
Case 2

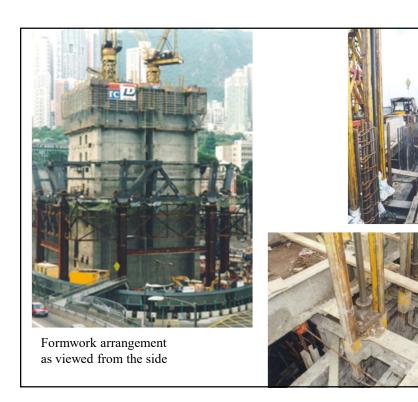
Cheung Kong Center

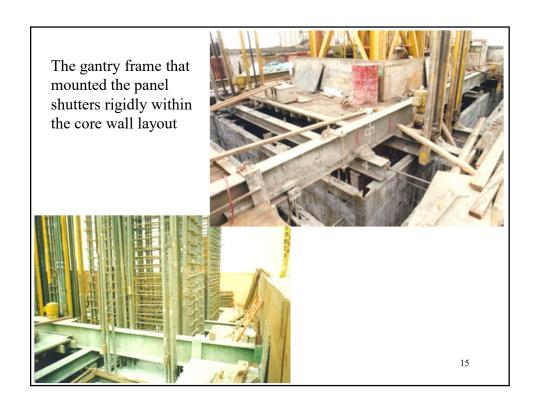
- 62-storey office building
- Jump form system for core
- •composite slab and concretefilled steel tube as the outer frame



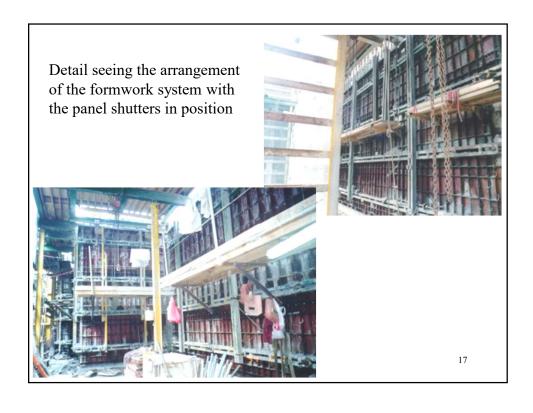












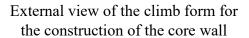


## The Gateway

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- 3 detached building towers each of 38-storey high
- structure of towers
  - central core with averaged 12m span RC columns around
  - post-tensioned flat slab system,
  - core wall VSL climb form, partially in large panel gang forms
  - slab aluminium strutted flying form system

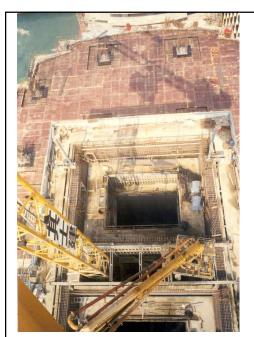








Some sections at the sides of the core wall are formed using large panel shutter





Floor slab as seen from various elevations





Wall section of the core before the enclosing with panel shutters.



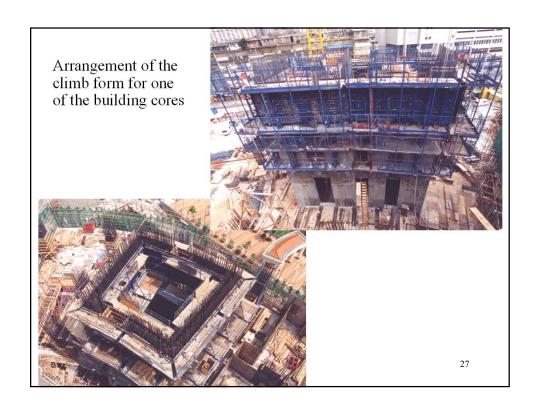
## Nina Plaza

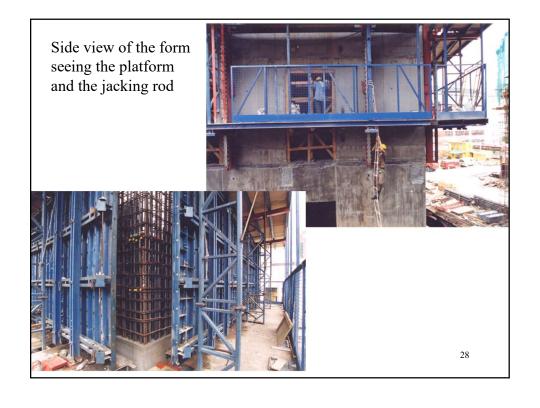
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### Formwork Features

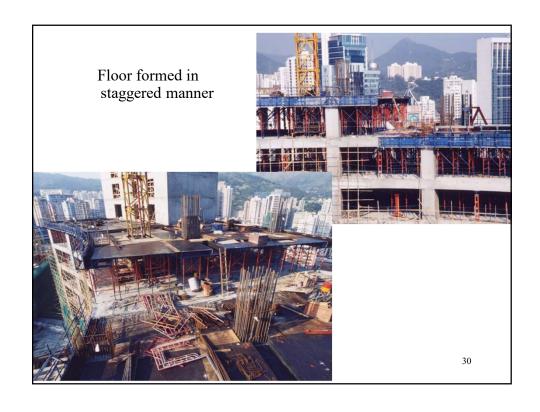
- Climb form for the core wall (3 isolated cores)
- Modified steel table form for floor slab
- Traditional timber form for podium structure







Overview of the formwork arrangement for the core and the floor

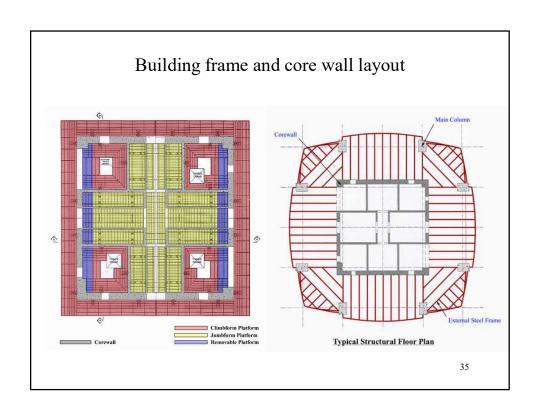


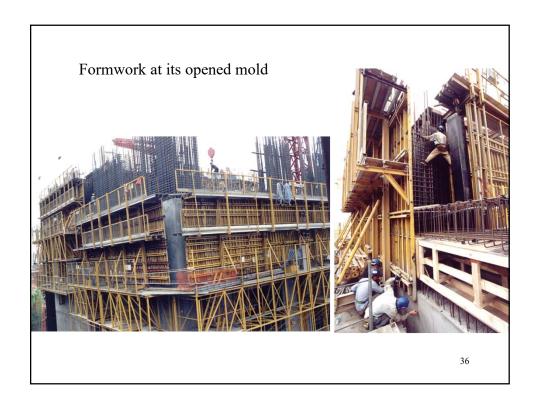


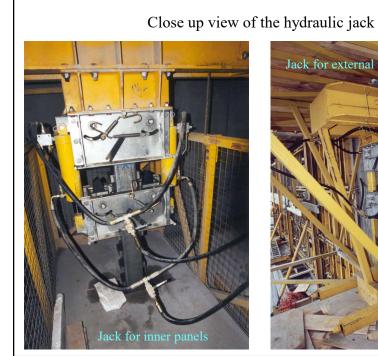


# IFC II

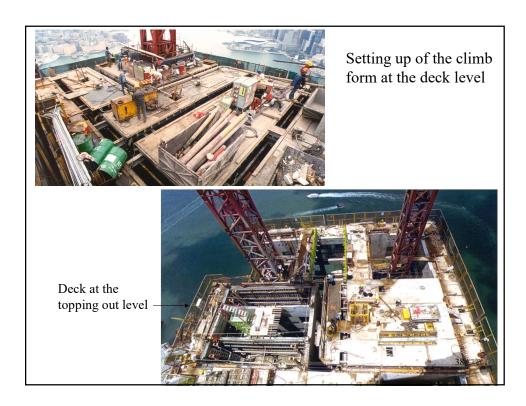


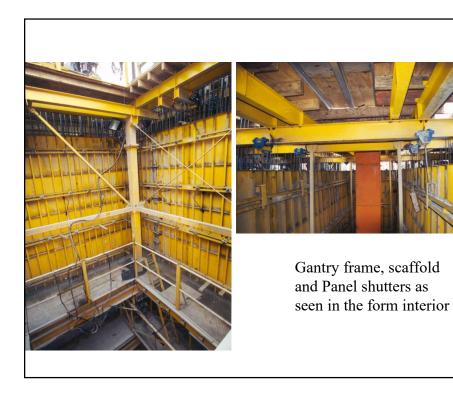


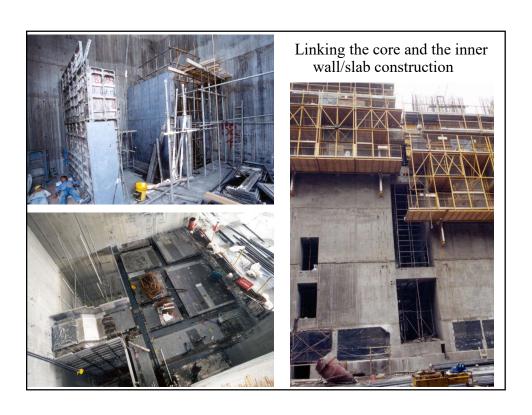












Finished look of the completed building





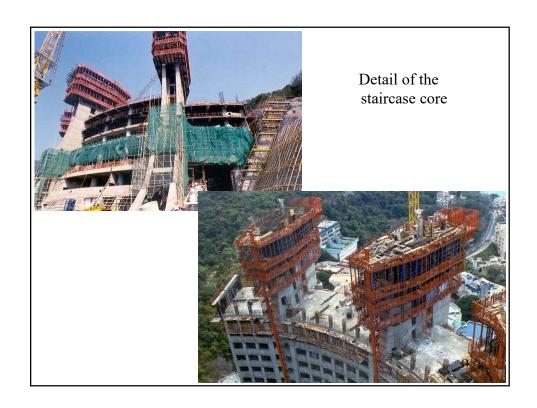
Case 6

Residential Development at Repulse Bay

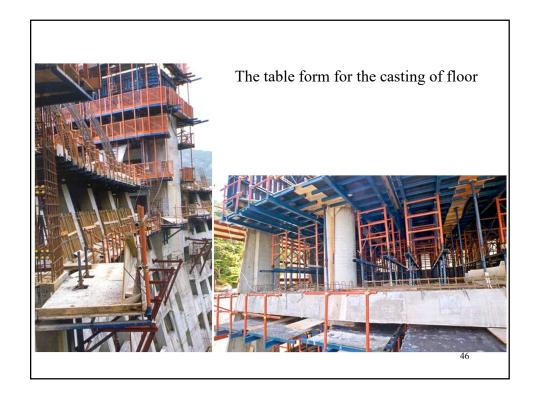
### Formwork Features

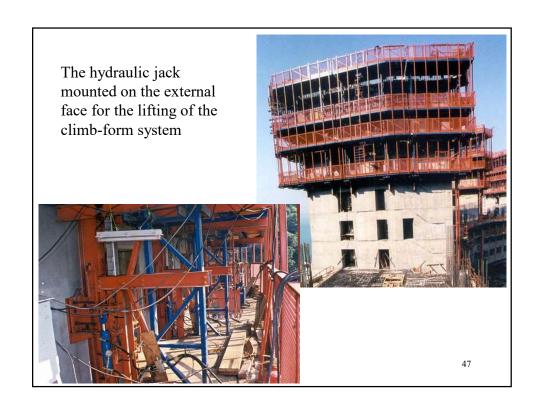
- A curved apartment-type tower structure of 28-storey high
- 5 parabolic-shaped stair-core constructed using climb form
- Modified steel table form for the floors

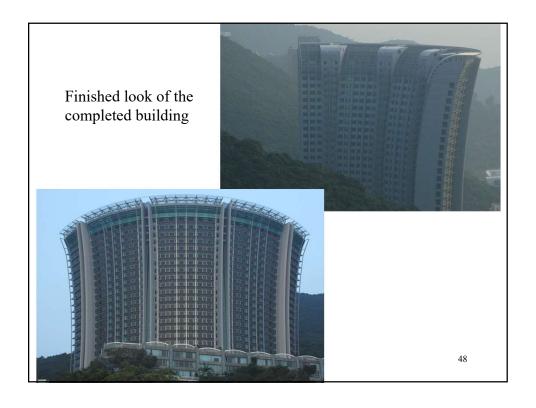








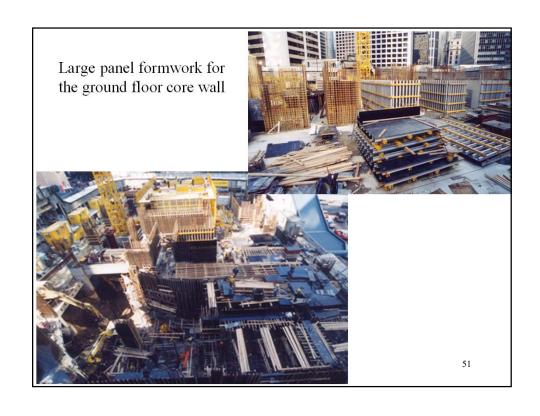


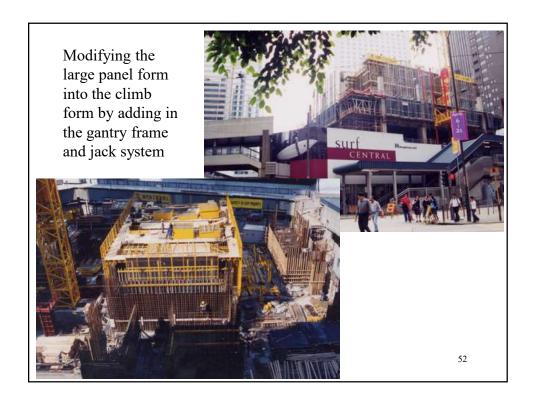


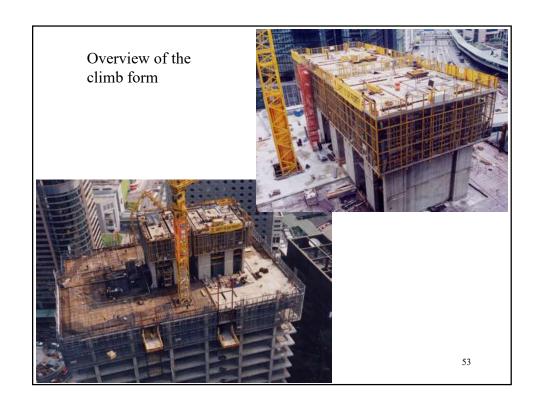
Case 7

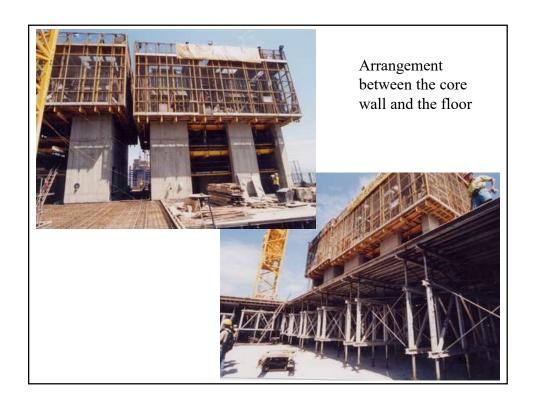
## Chartered House

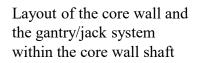






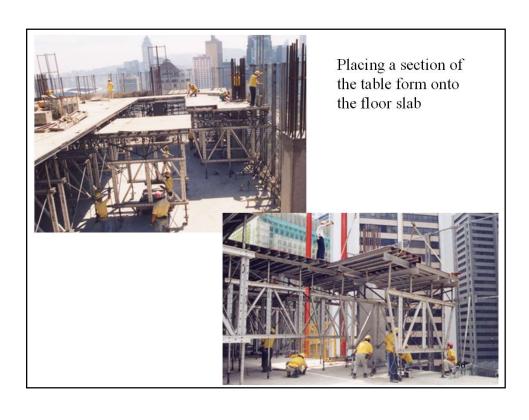


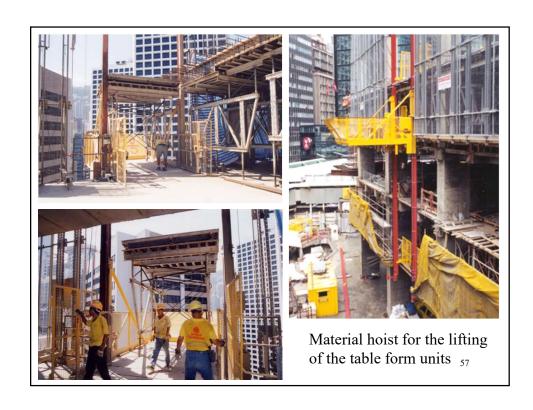


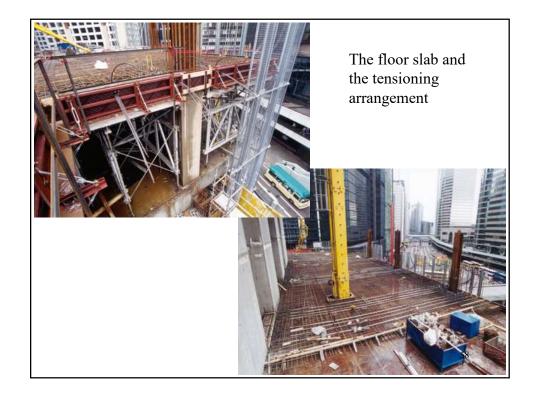






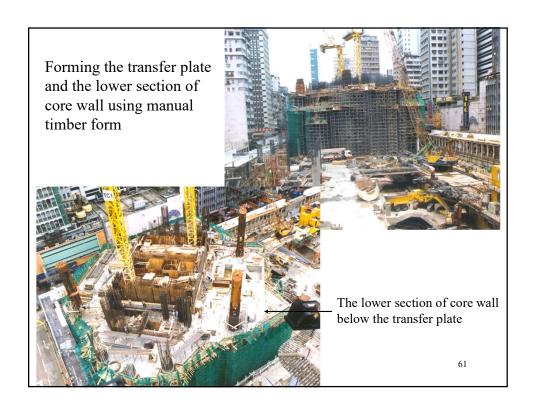






# URA Mong Kong Redevelopment, Langham Place

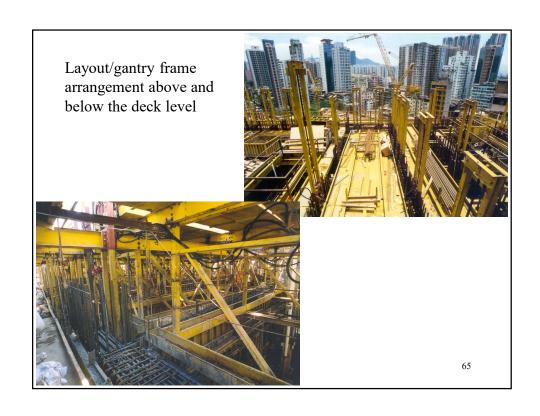


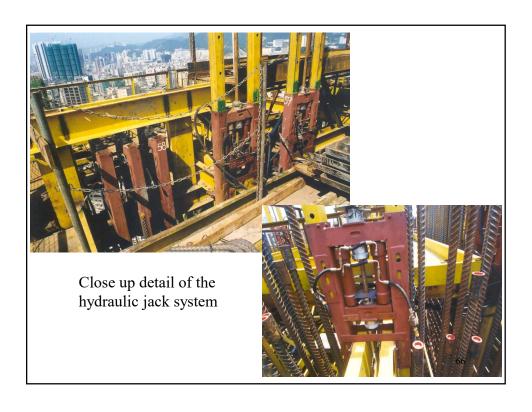


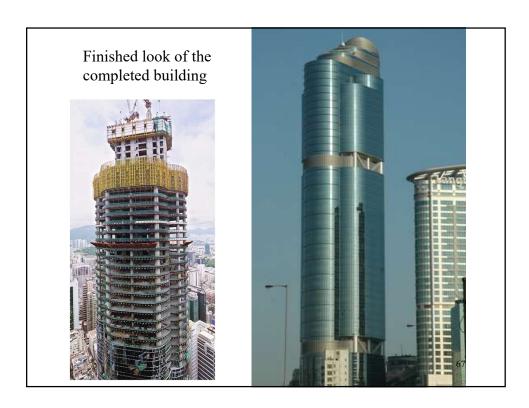








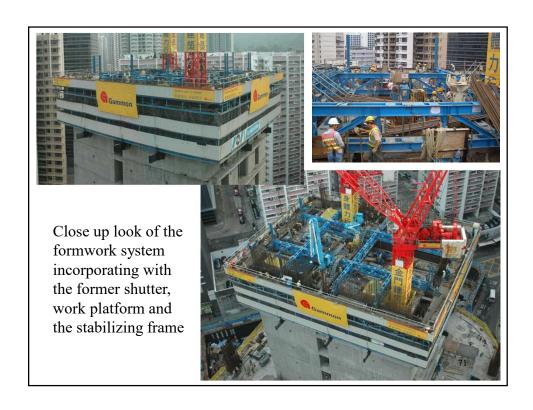


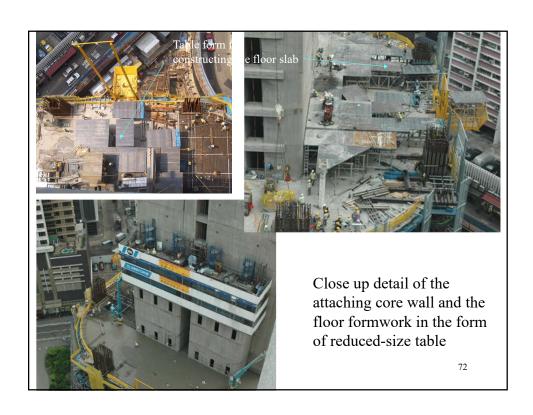


Case 9
One Island East in Quarry Bay











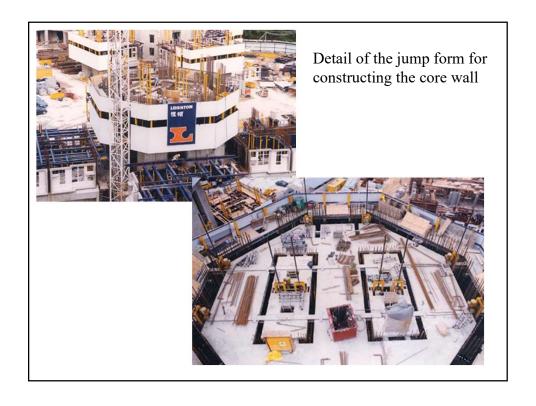
Material hoist for the lifting of the table form units and the climbing-type safety screen covering the building exterior 73

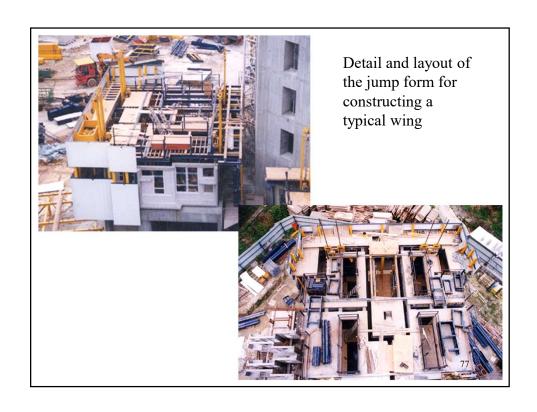
## Case 10

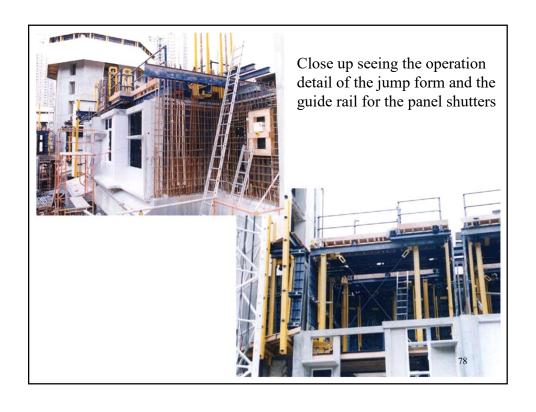
Housing Authority's Housing Project in Fanling, Wah Ming Estate

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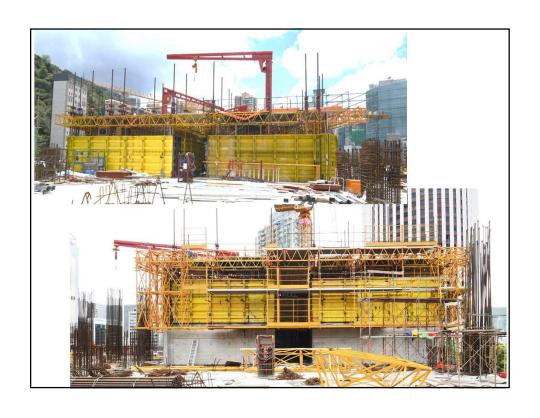


## Case 11

Hopewell Centre, Tower 2

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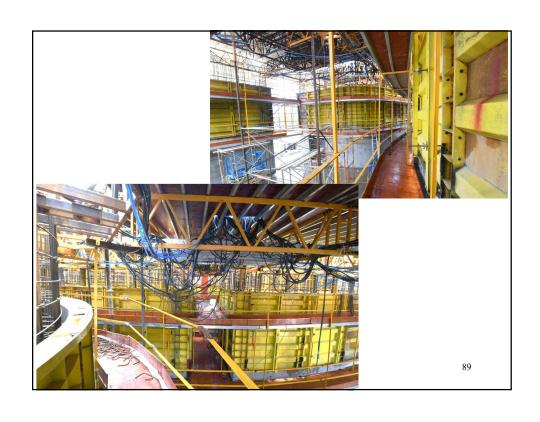




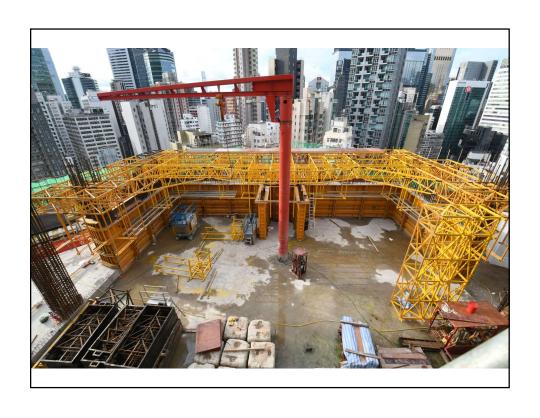














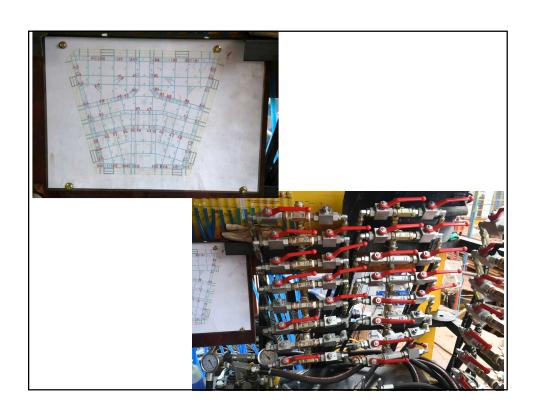














## End of presentation

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http://const-infobank.org/

Thank you.

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