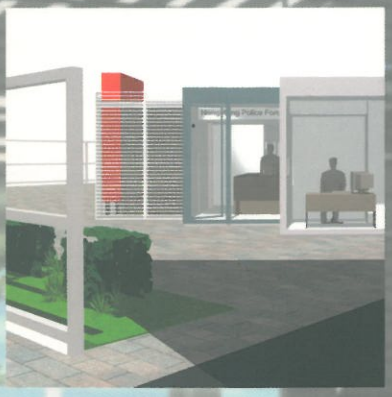
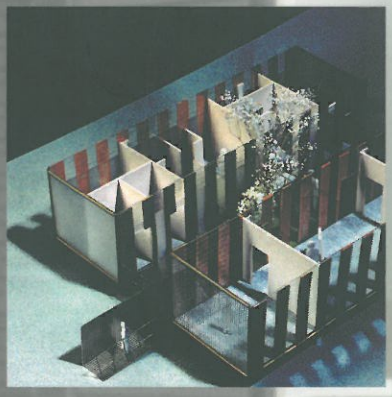
# HKIA journal

The Official Journal of The Hong Kong Institute of Architects
香港建築師學報

Issue No. 26 / 4th Quarter 2000





Journal Issue No.26
4th Quarter 2000

# FROM THE EDITOR

**Editorial Board** 編輯部

The Publication & Information Committee,
The Hong Kong Institute of Architects
香港建築師學會出版及資訊委員會

***Chief Editor:*** 主編：
WONG Wah Sang 黃華生

***Editor:*** 編輯：
Edwin CHAN Hon Wan 陳漢雲

***Editorial Committee:*** 編輯委員會：
Chimmy CHU Wai Ming 朱慧明
Tony LAM Chung Wai 林中偉
Franky MAK Hon Ming 麥漢明
Michael YEN Koon Wai 嚴觀偉
Albert YIU Chi Wai 姚志偉
Benjamin YIU Chin Pang 姚展鵬

***Advisors:*** 諮詢顧問：
CHUNG Wah Nan 鍾華楠
Tao HO 何弢
Patrick LAU Sau Sing 劉秀成
Eric LYE Kum Chew 黎錦超
Tom F. PETERS

***Advisor for English Language:*** 諮詢顧問(英語)：
Victor CHU Ka Shun 徐嘉信

***Advisor for Chinese Language:*** 諮詢顧問(中文)：
NG Yook Man 吳煜民

***Overseas Advisors:*** 海外諮詢顧問：
Tunney LEE 李燦輝
Fumihiko MAKI
Kenneth YEANG

The HKIA Journal is published quarterly and is distributed free to all HKIA members.
香港建築師學報每季一期，免費贈閱予香港建築師學會會員。

The Publication and Information Committee welcomes contributions in different forms with different opinions. However, the arrangement and publication of the articles/materials will be decided by the said committee.
出版及資訊委員會歡迎各界以任何形式提供意見。但文章及資料的安排與出版權由上述委員會決定。

The contents of articles published in the journal do not necessarily reflect the views and opinion of the Hong Kong Institute of Architects
文章所發表的立場及意見，並不代表香港建築師學會。

All articles/materials submitted shall be addressed to the Chairman, the Publication & Information Committee, the Hong Kong Institute of Architects, 19th Floor, 1 Hysan Avenue,Causeway Bay, Hong Kong
Tel: 2511 6323 Fax: 2519 3364
**Web site: *http://www.hkia.org***
文章及資料可郵寄予：香港銅鑼灣希慎道1號19樓
香港建築師學會出版及資訊委員會主席收。

## Architect as the Leader

Despite the present chaotic situation in Hong Kong, architects should still maintain the role of leadership in the built environment. We can achieve this by maintaining the quality of buildings which implies better concern on the environment and the manifestation of cultural context.

To achieve these, appropriate remuneration has to be received, obstacles of incompatible old building controls have to be removed and more application of architect's work by the community. Architects have now paid more attention to urban planning, construction, and management of construction works. However, to achieve and maintain leadership, more involvement of members to HKIA's work is necessary and your participation will help!

WONG Wah Sang

# CONTENTS


- **From the Editor 編輯室** 06
- **From the President 會長訊息** 10
- **Diary & Events 日記與活動** 12
- **Design Competition 設計比賽** 16
  - HKIA Design Competition
    Office Accommodation and Vehicle Examination Facilities at Kwai Shing Vehicle Examination Centre, Wing Shun Street Vehicle Pound, Tsuen Wan
- **Professional Practice 專業實務** 30
  - The Effect and Conslusiveness of Final Certificates
    *By Ian COCKING & Gilbert KWOK*
- **Construction & Technology 建築及科技** 34
  - Achieving Best Value in Construction Procurement, an Architect's Perspective
    *By LAM Wo Hei*
- **Education 教育** 42
  - The Incomplete Games: Architectonics Projects for Introductory Design Studios
    *By Joseph Francis WONG*
- **Culture & Heritage 文化及文物** 48
  - 香港的"十佳"與上海的"十佳"
    Ten Celebrities in Shanghai and Hong Kong
    *薛求理 Charlie Q. L. XUE*
- **Environmental Issues 環保** 50
  - Management of Construction and Demolition Waste
    *By Chris GABRIEL*
- **Leisure 餘閒** 6
  - Passages on India



## Publication 出版

**HKIA Journal** is published by
PACE Publishing Limited

27/F., Cindic Tower,
128 Gloucester Road,
Wanchai, Hong Kong
Tel: 2897 1688 Fax: 2897 2888

香港建築師學報由貝思出版有限公司出版
香港灣仔告士打道 128 號信誼大廈 27 樓

***Publisher:*** 出版人：
George LAM 林達生
(Tel: 2515 7688)

***Editorial Co-ordinator:*** 編輯統籌：
WONG Suk Man 黃淑敏
(Tel: 2515 7639)

***Sales Enquiries:*** 廣告查詢：
Hong Kong: Olivia KO 香港：高慧明
(Tel: 2515 7626)
Guangzhou: Billy YIP 廣州：葉飆
(Tel: 020 8657 8290)

***Colour Separation:*** 分色：
Guangzhou Pace Colour 廣州貝思廣告
Separation Company Limited 製作分色公司
(Tel: 020 8657 8290)

***Printer:*** 承印：
Wictle Offset Printing Co. Limited 永豐印刷
(Tel: 2556 0273, Fax: 2897 2048)



Copyright of material published is to be retained by the HKIA and the respective contributors.
版權由香港建築師學會及供稿者所有。

No part of The HKIA Journal, written or pictorial, may be reproduced or published without the prior written permission of the Publisher.
香港建築師學報之所有圖文皆有版權，非經書面同意不得轉載。

© All rights reserved
版權所有，不得翻印



Concept for cover design by Franky MAK Hon Ming
封面設計：麥漢明

SOPA The Member of The Society of Publishers in Asia

# FROM THE PRESIDENT

## Council 理事會

***PATRON:***
Mr. TUNG Chee Hwa,
Chief Executive, HKSAR
*贊助人：*
董建華先生
香港特別行政區首長

***President:***
Barry Fegan WILL
*會長：*
韋柏利

***Vice President:***
CHUNG Wah Nan
LAM Wo Hei
*副會長：*
鍾華楠
林和起

***Hon-Secretary:***
Joseph KWAN Kwok Lok
*秘書長：*
關國樂

***Hon-Treasurer:***
Bernard Vincent LIM
*財務長：*
林雲峰

***Council Members:***
*常務理事：*
Leo A BARRETTO
Donald CHOI Wun Hing 蔡宏興
Denise KWONG Wing Man 鄺穎文
Anthony NG Heung Hung 吳享洪
Vincent NG Wing Shun 吳永順
Stephen TANG Man Bun 鄧文彬
Tony TANG Wai Man 鄧偉文
John WONG Po Lung 王寶龍
WONG Shiu Kwan 黃兆鈞
Tony WONG Shou Fat 黃守發

***Immediate Past-President:***
Dr. Tao HO
*上任會長：*
何弢

***REGISTRAR:***
Rita CHEUNG
*註冊主任：*
張容美卿

## Message from the President

By the time you read this, our first major competition in over a decade will be well under way. The design for a Youth Centre in Chaiwan is an interesting and challenging brief with the emphasis on the special needs of the projected users, namely the youth of Hong Kong and with a strong direction for sustainability in the overall concept. This competition indicates a number of changes that have occured in the practice of architecture over the past year; first, the willingness of public clients to entrust their design needs to a competition format; second, an emphasis on design quality and original ideas; third, a request for a site specific design rather than a general repeatable answer; and fourth, a recognition by an explicit statement of the need for sustainability and environmental efficiency in buildings in the public domain. Our thanks must go to the Competitions Committee, which against great odds has managed to set up this competition. The committee is not resting on its laurels - the next competition on specialised park shelters for small practices is due out in mid-September and several more are to follow shortly. From the level of interest in these activities we believe that this is a valuable contribution of the Institute to the profession.

Another important undertaking of the members has been in respect of the commitment to heritage. The Tai O workshop on the stilted housing had no more been completed than a fire destroyed most of the site. A revised report was prepared and the Institute took it to the government for action. The response was immediate and positive and the HKIA is now working with the residents of Tai O and the relevant government departments to establish a tourist heritage zone which will allow rebuilding of the original structures. Any members who wish to help with this important project are asked to contact Anthony Ng under whose Board the work is proceeding. The workshop format appears to offer a number of advantages in that more members are able to participate and with concentrated team work more viable solutions emerge. In support of this statement the recent joint workshop between the Education Department, the Architectural Services Department and the HKIA was particularly successful!

The topic was the School Improvement Programme (SIP) and with very short notice the HKIA was able, through the help of the Practices Committee, to mount this workshop at the Institute premises.

There will be considerable work opportunities for member practices from the proposed formats generated at the workshop and the Institute will proceed with speed to ensure that the best professional services are offered to the Education Department to achieve their objective of improving more than 350 schools before 2004. Future competitions for site specific school designs and a school village are about to be undertaken.

Over the past 18 months, the HKIA has been working with the public sector to try and generate more work for the architectural firms of Hong Kong. This is the worst recession the construction industry has faced in the past 30 years and the drop-off of work within the Asian region has compounded the problem. Hong Kong is ill-prepared for its transformation to a service based economy and it has taken considerable effort to bring this shortfall to the attention of the relevant government bureaus. For many years the production and trade sectors of the economy have been well served by bodies such as the Trade Development Council and the Productivity Council. Recently, we have been able to convince these organisations that the service sectors should also receive their attention and at a meeting with the Chief Executive, he pledged to help the service sectors of the Hong Kong economy particularly with reference to exporting services to the PRC. New networks will be established by the TDC and the Hong Kong Government representative offices to ensure that Hong Kong professionals will be informed of new projects at the earliest possible time.

The construction industry has been battered with a number of allegations of corruption and malpractice over the past year but if taken in context, these cases are a very small proportion of the overall completed construction. A considerable amount of work needs to be done to ensure that the public faith in the professionals is restored and the Institute has been at the forefront of this promotion. Currently, we are working with the ICAC produce new clauses for all employment contracts to ensure that all levels of the construction industry are aware of their responsibilities and liabilities.

The HKIA has been actively involved in promoting new methods of procurement for both HKHA and ASD projects and some of these new measures are already underway. The bottoming out of fees has happened and government is now accepting that more innovative methods of finding the best consultant for the job are essential for future progress. We are still very concerned over the failure to appoint an architect A.P. to the Construction Industry Review Committee and my appeal to the Chief Secretary fell on deaf ears. We will wait for the results of the review but it would appear that vested interests may well preclude the committee from making any really relevant proposals for improving the industry. The last thing we want to see is more punitive legislation aimed at the A.P. without attaching the root sources of poor quality labour and contracting management problems.

Over the past 18 months, the HKIA has stepped up its profile within the community and has worked it all levels from children to the elderly to show its concern with the future of Hong Kong. We have gained support from the relevant government departments, fellow professionals and NGO's to set up a Green Building Council for Hong Kong and a large delegation of HKIA members will be going to the Netherlands in October for the world meeting of the Green Building Council.

The support for the community issues the HKIA undertaking has grown rapidly and we believe that through commitment to public projects we can educate the population on the importance and relevance of good design to each and every one. With this will grow the public demand for higher quality services and below cost fees will fall from favour. A small light at the end of tunnel is showing but it will require a total effort from the architectural profession to bring back a level of normalcy to the present situation. One last note is about copyright. As a hangover from colonial law copyright of architectural designs was vested in the Crown. This was to prevent duplication of designs meant for royalty. The government has continued to incorporate these clauses in its contracts without ever examining the rationale behind the decision. The UIA/AIA the International Accord recently signed indicate that copyright should remain with the architect and if the A is used for WTO purposes, technically the current law is in breach of these conditions. It is ironic that we are spending millions of taxpayers' dollars to protect dubious overseas copyrights whilst contravening the rights of designers. I am currently in discussion with the government lawyers over this matter and I will keep you informed of progress.

Ar. Barry Fegan WILL

# DIARY & EVENTS

## January 2000

| | |
|---|---|
| 05/1 | Publication & Information Committee Meeting |
| 18/1 | Board of Internal Affairs Meeting |
| 19/1 | Board of Local Affairs Meeting |
| 20/1 | Board of Overseas Affairs Meeting |
| 21/1 | Architects Registration Board Meeting |
| 24/1 | Board of Educational Affairs Meeting |
| 25/1 | Council Meeting |

## February 2000

| | |
|---|---|
| 09/2 | Publication & Information Committee Meeting |
| 15/2 | Board of Internal Affairs Meeting |
| 23/2 | Board of Educational Affairs Meeting |
| 29/2 | Council Meeting |

## March 2000

| | |
|---|---|
| 02/3 | Board of Overseas Affairs Meeting |
| 03/3 | Architects Registration Board Meeting |
| 14/3 | Board of Internal Affairs Meeting |
| 15/3 | 1st Quarterly General Meeting |
| 21/3 | Board of Local Affairs Meeting |
| 28/3 | Council Meeting |
| 29/3 | Board of Educational Affairs Meeting |

## April 2000

| | |
|---|---|
| 14/4 | Architects Registration Board Meeting |
| 17/4 | Board of Internal Affairs Meeting |
| 20/4 | Board of Overseas Affairs Meeting |

## May 2000

| | |
|---|---|
| 02/5 | Board of Local Affairs Meeting |
| 03/5 | Council Meeting |
| 12/5 | Board of Internal Affairs Meeting |
| 17/5 | Board of Educational Affairs Meeting |
| 20/5 | CEPD Precast Factory in Dongguan Site Visit to Orient Bunds |

## June 2000

| | |
|---|---|
| 01/6 | Board of Overseas Affairs Meeting |
| 02/6 | Architects Registration Board Meeting |
| 13/6 | Board of Internal Affairs Meeting |
| 14/6 | Council Meeting |
| 20/6 | Board of Local Affairs Meeting |
| 21/6 | 2nd Quarterly General Meeting |
| 28/6 | Board of Educational Affairs Meeting |

## July 2000

| | |
|---|---|
| 07/7 | Happy Hour Gathering: Welcoming Party to New HKIA Members |
| 14/7 | Architects Registration Board Meeting |
| 18/7 | Council Meeting |
| 20/7 | Board of Overseas Affairs Meeting |
| 25/7 | Board of Internal Affairs Meeting |

## August 2000

| | |
|---|---|
| 08/8 | Board of Local Affairs Meeting |
| 16/8 | Board of Educational Affairs Meeting |
| 22/8 | Council Meeting |
| 31/8 | Board of Overseas Affairs Meeting |

## September 2000

| | |
|---|---|
| 01/9 | Architects Registration Board Meeting |
| 05/9 | Board of Internal Affairs Meeting |
| 07~08/9 | ARCASIA Congress in Malaysia |
| 15/9 | Young Architect Awards Presentation Night |
| 19/9 | Board of Local Affairs Meeting |
| 20/9 | 3rd Quarterly General Meeting |
| 26/9 | Council Meeting |

## October 2000

| | |
|---|---|
| 10/10 | Board of Internal Affairs Meeting |
| 11/10 | Board of Educational Affairs Meeting |
| 19/10 | Board of Overseas Affairs Meeting |
| 20/10 | Architects Registration Board Meeting |
| 24/10 | Council Meeting |
| 31/10 | Board of Local Affairs Meeting |

## November 2000

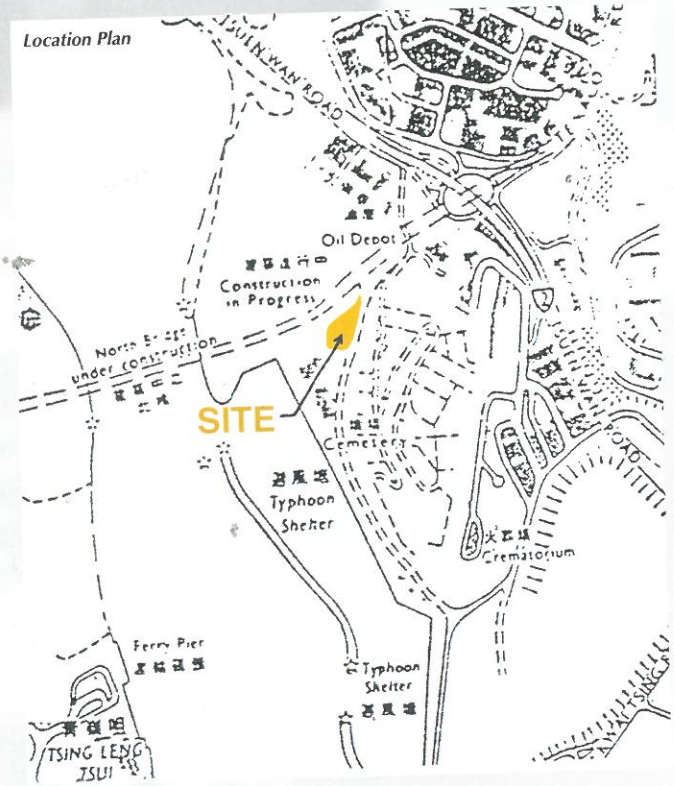
| | |
|---|---|
| 14/11 | Board of Internal Affairs Meeting |
| 15/11 | Board of Educational Affairs Meeting |
| 21/11 | Council Meeting |

## December 2000

| | |
|---|---|
| 07/12 | Board of Overseas Affairs Meeting |
| 08/12 | Architects Registration Board Meeting |
| 12/12 | Board of Local Affairs Meeting |
| 13/12 | Annual General Meeting |
| 19/12 | Board of Internal Affairs Meeting |
| 20/12 | Council Meeting |

# HKIA Design Competition

## Office Accommodation and Vehicle Examination Facilities at Kwai Shing Vehicle Examination Centre, Wing Shun Street Vehicle Pound, Tsuen Wan




*In order to promote design excellence and to assist (SME) s and medium size architectural practices during the cur economic climate, the HKIA in association with the Architec Services Department (ASD) has commenced to conduct a s of architectural design competitions on projects of minor na which are normally implemented within the ASD.*

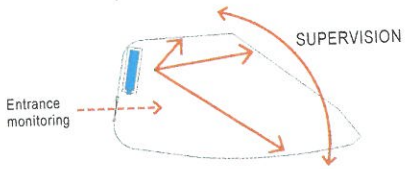
*The first of this series of Minor Works competition was fo Kwai Shing Vehicle Examination Centre, and the Winner o competition will be engaged by the ASD as Architec Consultant to execute the work in full from design concepti building completion.*

*This Competition was open to all HKIA Members and Pra Firms except those Firms who were currently listed unde ASD / AACSB List of Architectural Consultants.*

*Professor Patrick Lau, Mr Barry Will, Mr D. G. Tho Mr Rocco Yim and Mr Mike Wilde comprise the jury panel.*

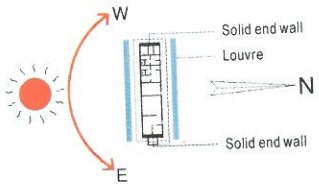
# OBJECTIVES

## CONTROL



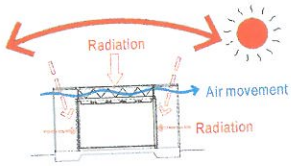

- Entrance control
- Full visual coverage

## ENVIRONMENTAL EFFICIENT



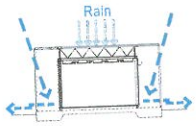

- Solid end wall facing East & West
- Additional louvres on North and South

## ENERGY EFFICIENT



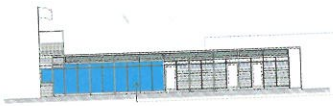

- Ventilated air as insulation layer
- Double roof system screen off excessive heat gain
- Low heat gain through wall insulation

## WATER TIGHT




- Extended louvre canopy shelter excessive rain on side wall and window
- Double raised platforms minimize chance of floor water inflow

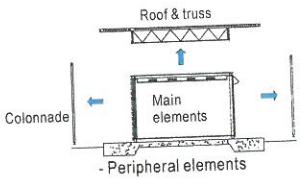
## TRANSPARENCY AND TEXTURE



- Use of corrugated metal sheet
- Full glazing with sandblast pattern

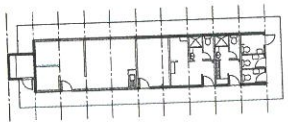
# TRANSPORTATION MODULES

Disassembly of peripheral elements
e.g. Truss, metal roof, colonnade
Breaking up continuous elements
e.g. Waterproofing layer
Removing loose furniture



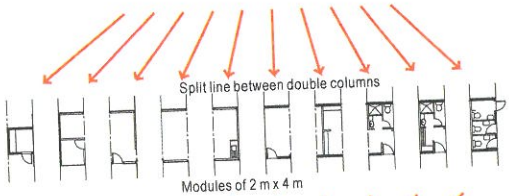

1

Disassembly of main elements into structural modules for transportation



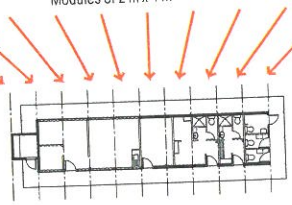
2

Transportation



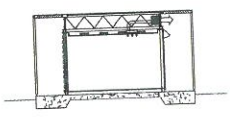

3

Re-assembly of modules into main elements



4

Assembly of peripheral elements
Re-laying of continuous element - waterproofing layer
Moving in loose furniture

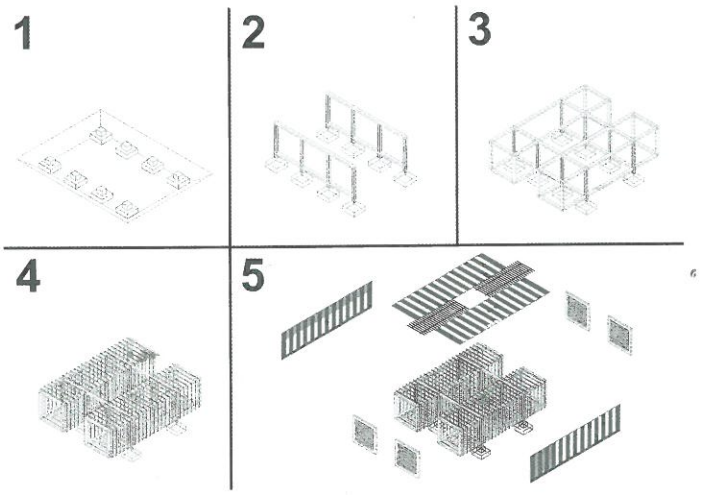


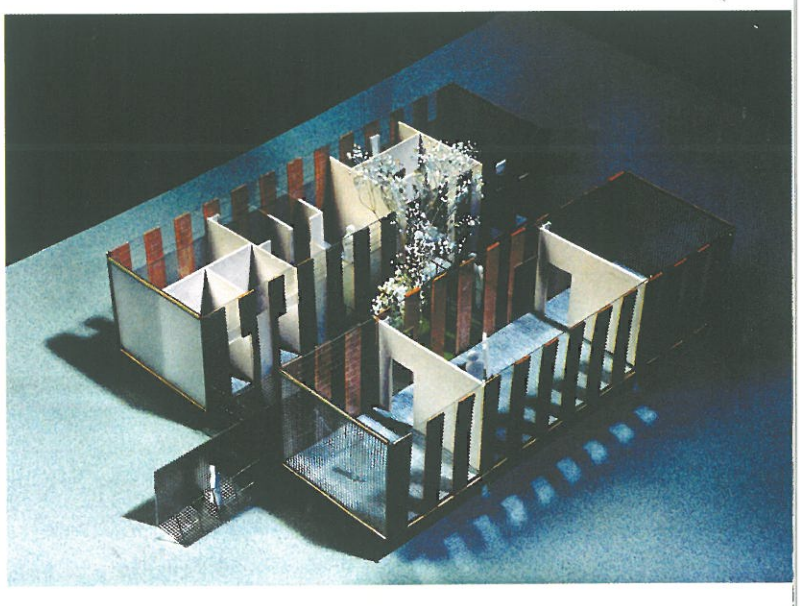
5

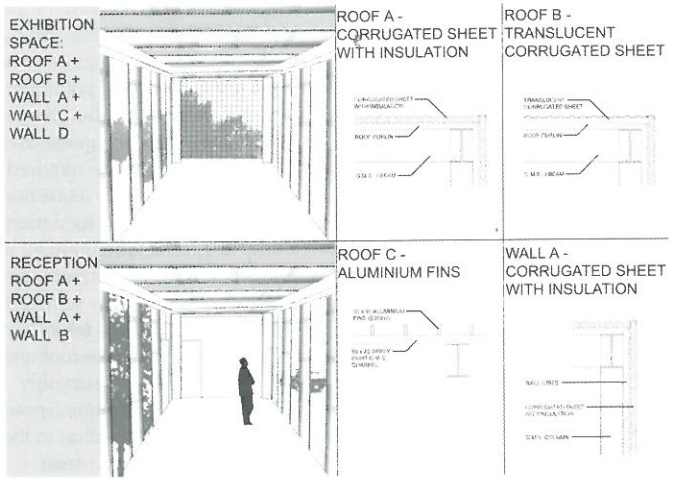
# Honourable Mention

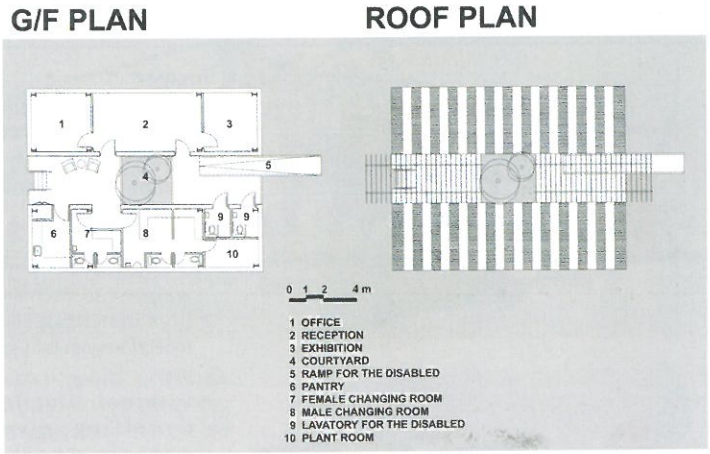
*CP Architects Ltd.*
*WAI Ching Pong*

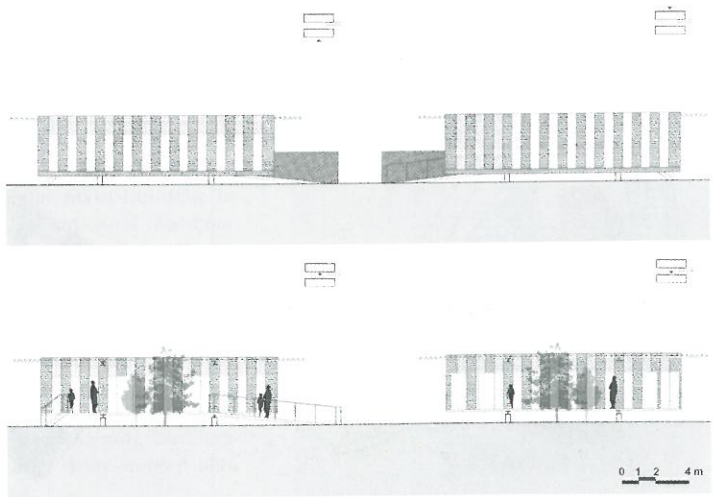
***Jury's comment:** This design is noted for the logic and clarity of the functional layout and for the strong visual identity created by notions of transparency / translucency / opaqueness within a disciplined visual grid. The jury, however, were not entirely convinced of the success of the actual integration of exterior expression and internal planning. The practicability of the openness of the central circulation zone also raised some concern.*





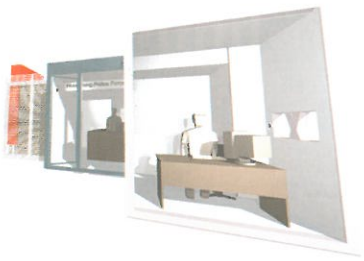



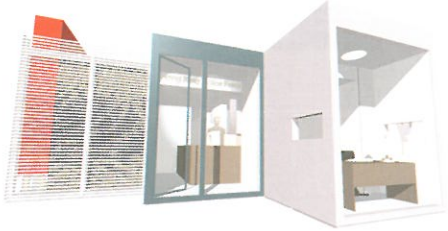
# Honourable Mention

*Lui Kwong & Associates Ltd.*
*Denise, KWONG Wing Man*

***Jury's comment: This design is commended for the strong and innovative approach to the adaptation of container units into a building. The jurors were particularly impressed by the transformation of the skins of the containers to express the functions they house - a louvred enclosure for the service unit and transparent ends for the working units. It was noted, however, that the functional planning was not entirely resolved and environmental issues such as thermal insulation and ventilation were not adequately addressed.***

**Site** - The building is placed on the site so as to give a clear view of the entrance gate and as wide a field of view of the vehicle pound as possible from the guard house. Similarly, the reception entrance is immediately visible upon entry to the site. A narrow landscaped strip improves the outlook of the site from the adjacent public roads.

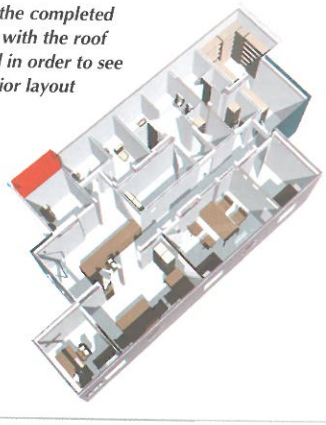




**Images** -

- Views of guard house and entrance to reception
- Guard house with fully glazed main windows for maximum view
- Venetian blind recessed in ceiling above and smaller windows to each side
- Illuminated signage at reception with fully glazed front
- External aluminium panelling gives a professional and permanent feel to the building

***View of the completed building with the roof removed in order to see the interior layout***



***Detail of one of the three structural units showing basic steel frame and as fitted-out***

**Services** - All toilets showers, basir tanks are contained within just one building modules. This minimises pi means that no disconnecting and re of water or drainage pipes is requ the building when it is relocated. The too is located within this building water tanks and the hose reel are zone behind the disabled WC. The main water and drainage pipe accessible from the outside of th through openable louvered panel minimise disruption during mainte ensure that any leakage in pipe not affect the interior of the buildi

Similarly, the A. C. units are contai their own spaces with external acce openable louvered panels. Aga contained within just one of the buildi - minimising pipe runs and removin to disconnect and reconnect pipew relocation.

The configuration of the rooms n each of the three building modul independently wired for light and p only a single connection between t

**Construction** - Standard containe size of 12.1m long x 2.5m wide is ta structural frame of the building. By t incorporating standard container fixin base of the structural frame and lifting the top, the later relocation of the b made as simple as possible, only a a standard container truck trailer are The height of the building is greater of a standard container, which makes usable and comfortable interior. The b constructed of 3 identical structural fr adjacent giving a total area of 90m² to meet the brief requirements. Upon only the aluminium joint cover on th joint covers in the floor need disa minimum disruption to the building fab of re-erection means minimum disrup working life of the building and its

# Honourable Mention

*Michael Chiang & Associates Ltd. & Wong Wah Sang*
*Team Leader: Michael CHIANG Hong Man*
*Team Members: WONG Wah Sang, Ben YEUNG Ka Sing & Raymond M. W. CHAN*

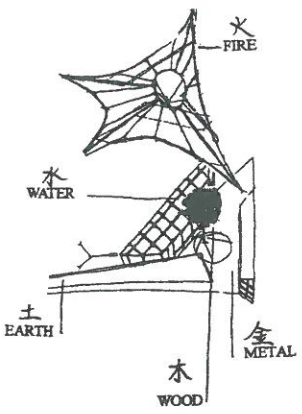
***Jury's comment: This design is noted for its creation, through the use of a unifying tensile membrane element, of a distinct visual image for the Police Vehicle Pound while, at the same time, providing an interesting spatial quality for the semi-open area under the tensile membrane for visitors. It was felt, however, that the planning configuration could perhaps be less contrived and there was not a consensus among the jury on the appropriateness of the festive ambience associated with such a design.***

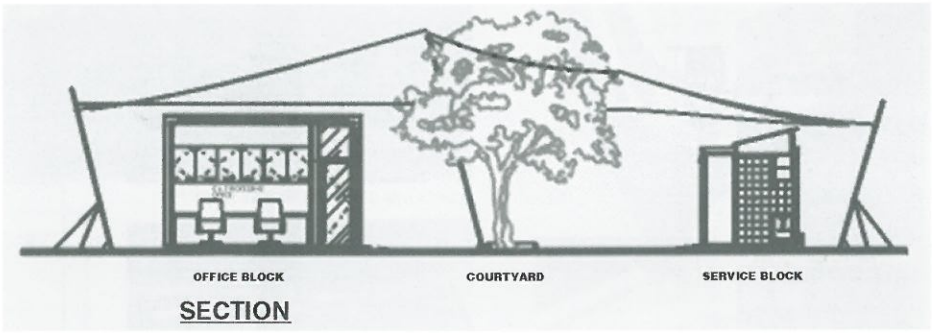
The Wing Shun Street Vehicle Pound is being commissioned for a site on Wing Shun Street, Tsuen Wan but may need to be relocated to a different site at a subsequent stage. The design philosophy of this proposal focuses on the need to assemble, disassemble and reassemble the building and its various components to a different site.

The 5 Elements of Chinese Cosmology is embodied to harmonise the building and its corresponding components within the odd surroundings of the site such as a columbarium and cemetery to the east, an abattoir to the south and housing estates to the north. The project itself forms a small Cosmo that incorporates a canopy as an environmental cover over the functional areas. The canopy serves as a sun screen to protect from solar glare and heat gain during the summer months. It also helps to induce the natural convection of hot air and acts as a protective cover to buffer the cold air in the winter. In essence, it serves to fend off undesirable environmental factors.

The 5 Elements itself are expressed in the design and composition of the building components:

- **Water** - The basic energy of the office block is expressed by the translucent glass skin of the external walls and roof providing constant views to, from and above.
- **Metal** - The silver clad aluminum and steel of the service block providing protection to the privacy of the washrooms, changing rooms and guard room.
- **Earth** - The entrance wall emerging from the ground and is used as a directional indicator to the office and also serves as a sun screen from the westerly sun during the day.

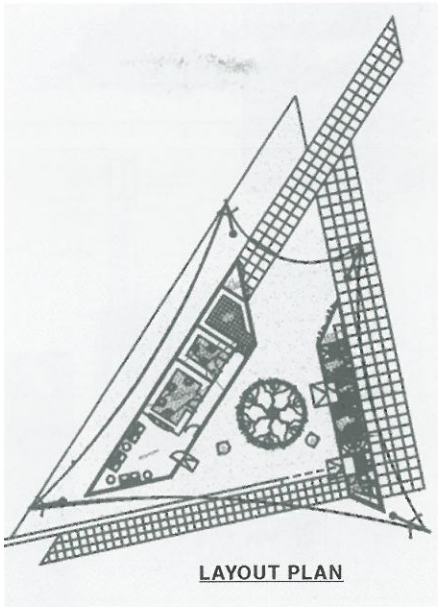





SECTION

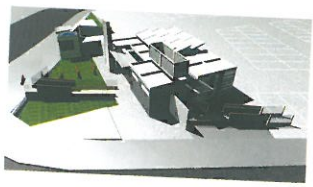
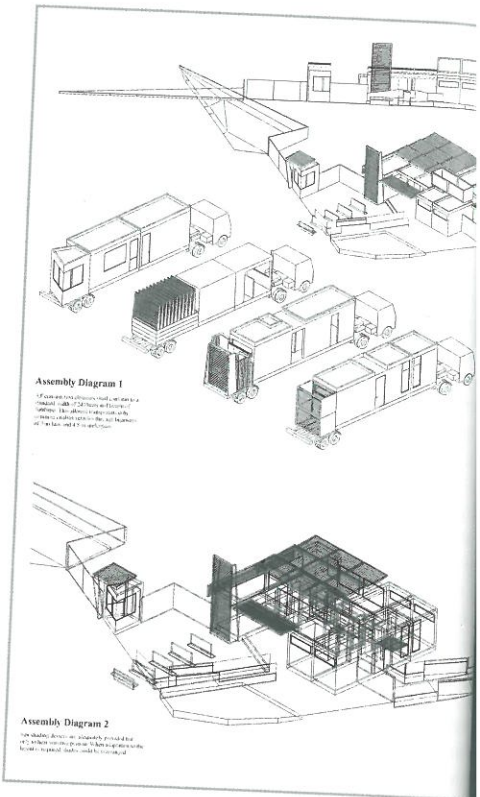
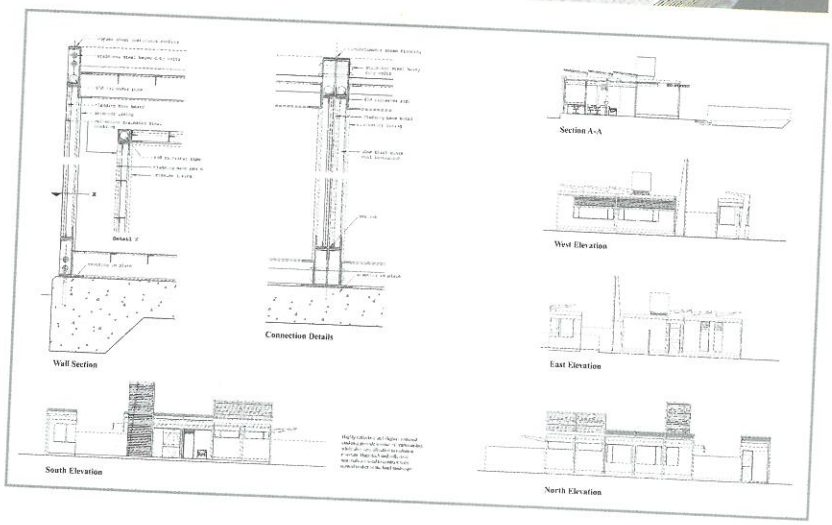
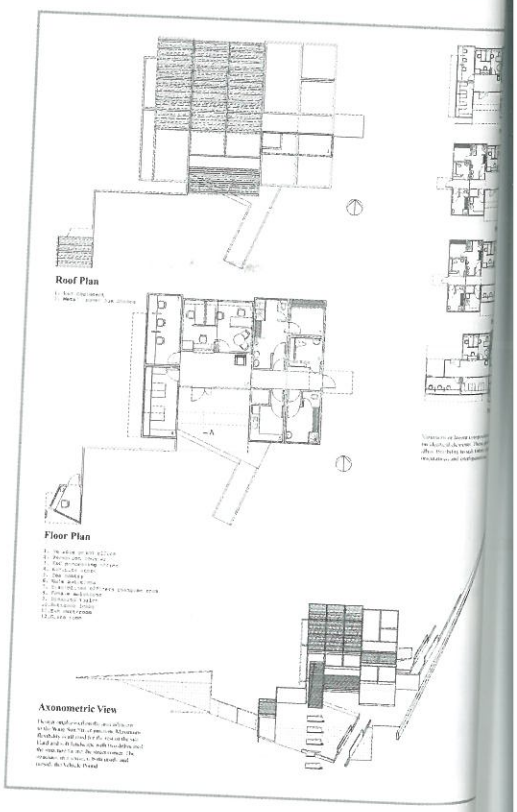
- **Wood** - The tree which gently protrudes through the canopy, contributing environmentally and providing focus and a sense of nature to the central courtyard.
- **Fire** - The canopy which rises above the whole complex symbolises fire. It acts as a sun screen and buffer in hot summer days and helps to induce natural convection thus reducing the air-conditioning consumption.

The architectonics of the main building is engineered such that steel structural members and tempered glass can be easily fastened and assembled at this and any location with minimal site work. The service building is a 40-foot container which is converted with the addition of external cladding, skylights and modular toilet facilities. This building can then be easily transported and plugged into the services of any new site. Similarly, the remaining building components can be easily disassembled and reassembled.



LAYOUT PLAN

# Honourable Mention

*PCMH Ltd.*
*Team Leader: Anthony PONG Yuen Cheung*
*Team Members: Cissi CHAN Wai Sze & Esmond WONG Yiu Ting*

*Jury's comment: This design is noted for the meticulous study of planning adaptability and transportability and a general sophistication in drawing and detailed planning. The final architecture was, however, felt to be slightly cumbersome and lacking in a sufficiently strong visual identity.*