Singapore International School (Hong Kong) Secondary School Campus

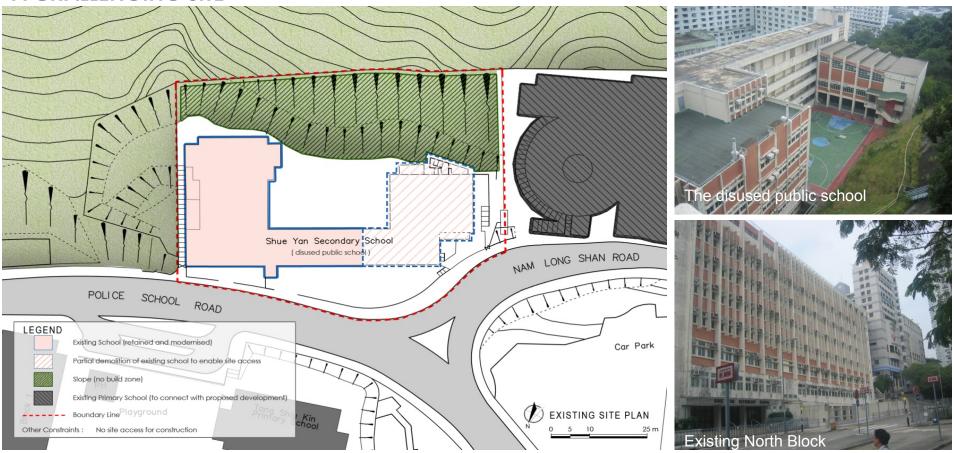
The Singapore International School in Hong Kong (HKSIS) was established in 1995, as the only overseas school funded by the Ministry of Education, Singapore. In 2007, a disused public school building (former Shue Yan Secondary School) next to the HKSIS campus was made available for the expansion of HKSIS to enable it to include a secondary school and pre-university curriculum to its program offering. This project involves the adaptive re-use and partial rebuilding of an existing school infrastructure in the hilly terrain of Hong Kong island - transforming an almost 30-year old utilitarian and non-descript public school facility into a unique learning environment for the Singapore International School – a memorable place imbued with rich experiential qualities which nurture and inspire.

The project is about 'making connections' at different levels – physical connections between the old and new structures as well as between the existing primary school and its expansion of the secondary school wing into this new facility, visual connections to the surrounding mountainous landscape, social connections within the school as well as between the school and its community. The architectural form and expressions are a result of careful resolution of these issues and the spaces created celebrate the notion of Community and Connectivity.

MAIN EXTERIOR VIEW



A CHALLENGING SITE



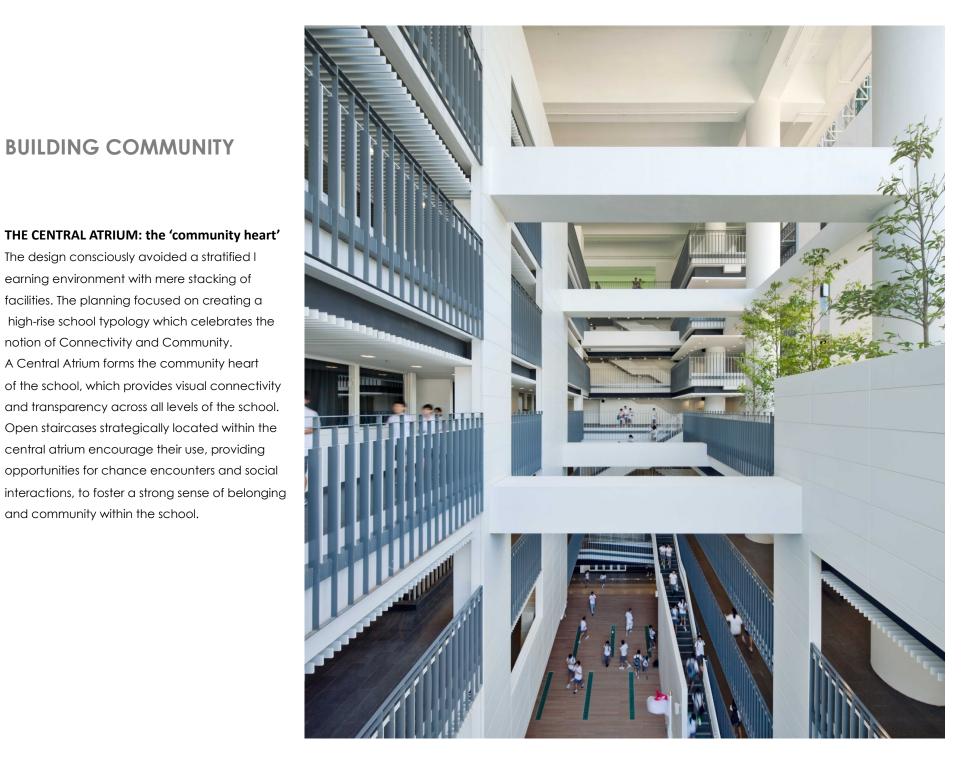
The plot was only 0.4Ha. One-third of the site had a steep slope, leaving a very limited buildable zone. There was a 41m level difference between the top of the existing HKSIS and the roof level of the disused school building, creating a big challenge, in terms of physical connectivity between both campuses. The site is surrounded by steep terrain, with vehicular access only along Northern edge. The existing buildings had to be retained, and integrated into the design. The design not only overcame the numerous challenges, but turned these obstacles into design opportunities, synthesizing the various unique site elements into a bespoke design which reflects the needs and aspirations of the school.

BUILDING COMMUNITY

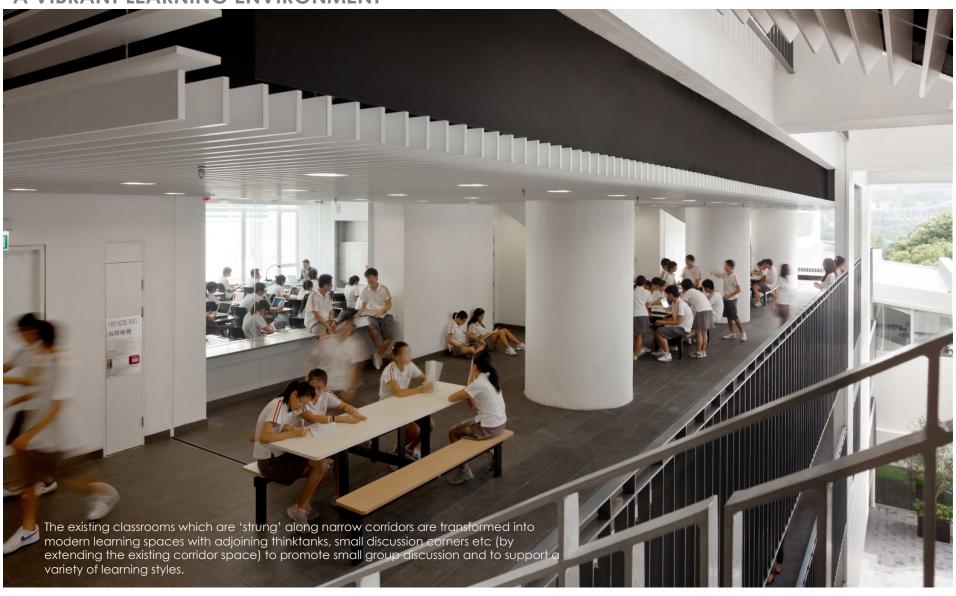
THE CENTRAL ATRIUM: the 'community heart'

The design consciously avoided a stratified I earning environment with mere stacking of facilities. The planning focused on creating a high-rise school typology which celebrates the notion of Connectivity and Community. A Central Atrium forms the community heart of the school, which provides visual connectivity and transparency across all levels of the school. Open staircases strategically located within the central atrium encourage their use, providing opportunities for chance encounters and social

and community within the school.



A VIBRANT LEARNING ENVIRONMENT

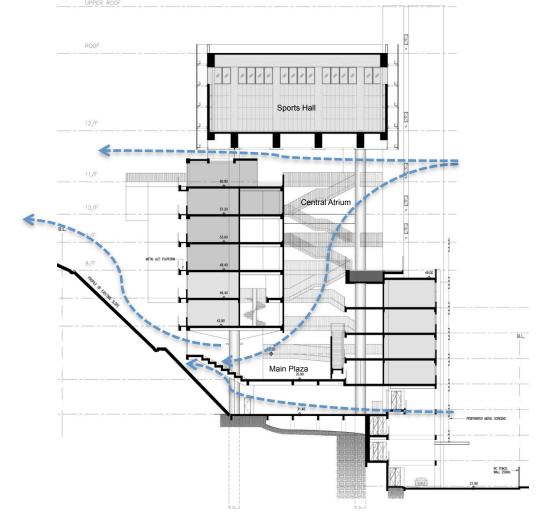


A SUSTAINABLE DESIGN

The scheme aims to achieve a climate-responsive and ecologically-sensitive design. The Central Atrium forms the main open space linking through all the 'teaching' floors of the school, introducing day lighting and natural ventilation to the various interior spaces. The 'floating volume - Sports Zone' hovering above forms a natural canopy over the Main Plaza, enabling the space to become an allweather social space. The new façade to the existing North Block is conceived as a 'sun-filter', providing visual connectivity to the surrounding landscape whilst cutting out unwanted heat radiation. Vertical green walls are introduced at strategic locations, providing good shading whilst at the same time, introducing greenery into the urban school environment. Other strategies eg green roofs, solar collectors etc are currently being explored for the school.



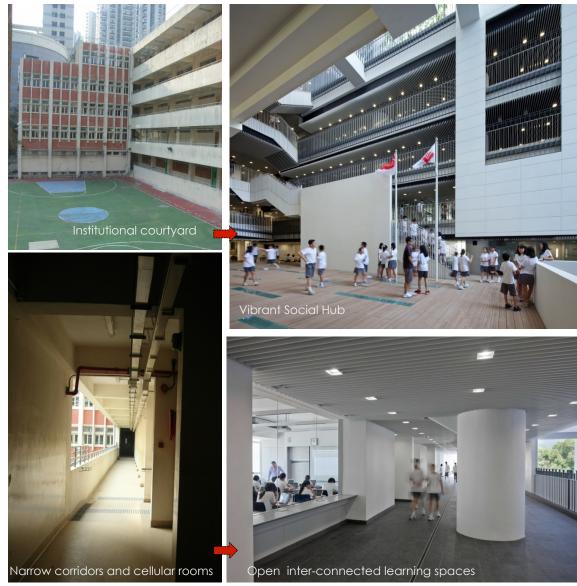




TRANSFORMATION INTO CREATIVE SPACES





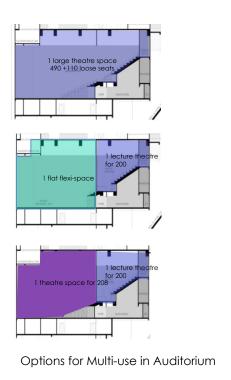


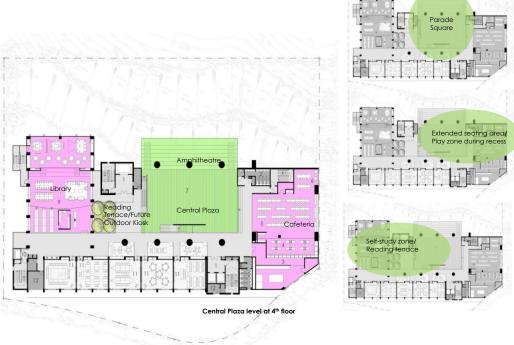
PLANNING PROCESS: engaging the school and local community

ACTIVITY	DATE
Kick-Off Meeting (MKPL, local consultant team, school management and educators, project management team) •Site Analysis and Understanding of site challenges and context •Clarification of key learning goals, culture and unique qualities of HKSIS. •Visioning exercise with school to define key qualities and expectations of new school campus •Rethinking the Brief – discussion on trends in educational planning, review of user program, adjacency relationships of key spaces etc	04-05 Dec 07
Feasibility Study of Site Options •Technical study of site options (Option 1: Retain entire existing school building, Option 2: Refurbishment, partial demolition and rebuilding, Option 3: Total rebuilding)	06 Dec 07 – 11 Jan 08
Work Session with HKSIS and local team •Exploration of preliminary design ideas and review of the 3 site options •Presentation to HKSIS Board of Governors on brief, program, design goals and site options	17-18 Jan 08
 Brief Development and Design Refinement Benchmarking study carried out jointly by MKPL and HKSIS (to determine space standards in other international schools in Hong Kong) Development of Site Option 2 ie Refurbishment, partial demolition and rebuilding as the preferred option for the project Justifications and Traffic Impact Analysis to Education Development Bureau (EDB) to request permission for partial demolition of existing Shue Yan School building to enable site access 	18 Jan – 26 Feb 08 26 Feb 08-19 Mar 08
Concept Design Review Concept design presented to HKSIS Management Team, Heads of Departments and staff, to get feedback and input. Work session with subject heads to clarify functional requirements. Presentation to Board of Governors for concept design approval	10-11 July 08
Detailed Review of Key Facilities with Heads of Department •Review of Arts Cluster, Science and Sports facilities •Review of Flexible Furniture and mock-ups	25 July 08
Worksession on Sustainable Design Features with HKSIS and local consultants	01-02 Dec 08
Engagement with local community and Local District Council Public forum/discussion on school development. Residents raised concern over potential blocking of views of mountainous landscape. School building height was lowered to address these concerns	Jan 09
Project Briefing to School Community Different briefing sessions organized for Parent Groups, Primary School and Secondary School students respectively	21-22 May 09
Worksession on Interior Design of key spaces with HKSIS	08 Jan 2010

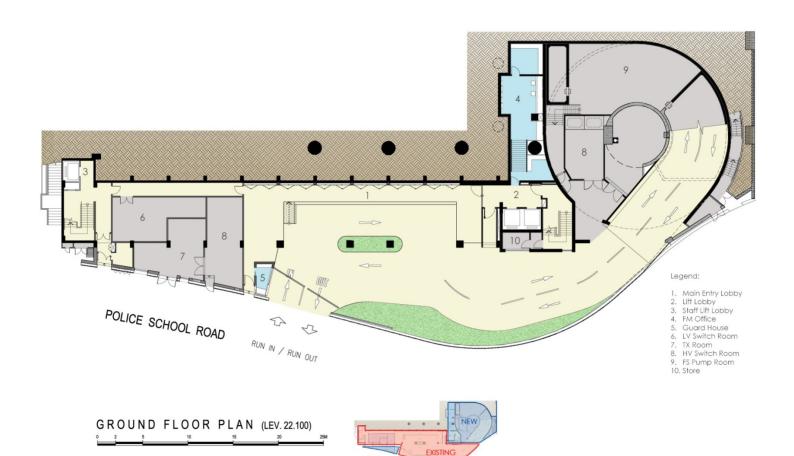
PLANNING PROCESS: ideas exploration

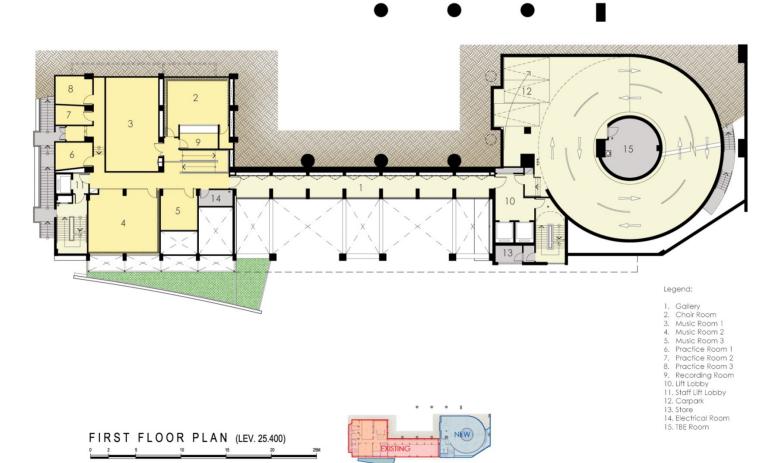
Fitting an extensive program in a severely constrained site and context was quite a challenge. The design process included extensive discussions and exploration of Innovative strategies with the school team to ensure optimization and creative use of teaching spaces. Careful study of functional adjacencies and overlap of uses were considered, blurring the boundaries between circulation-program space, inside-outside and formal-informal zones to ensure every space on campus is fully optimized for learning. The design went through many rounds of adjustments and changes, in response to different constraints and challenges (site, authority requirements, budgetary considerations etc.). Despite the many changes, the key focus was to ensure integrity of the design ideas and realisation of the school's vision and project goals.

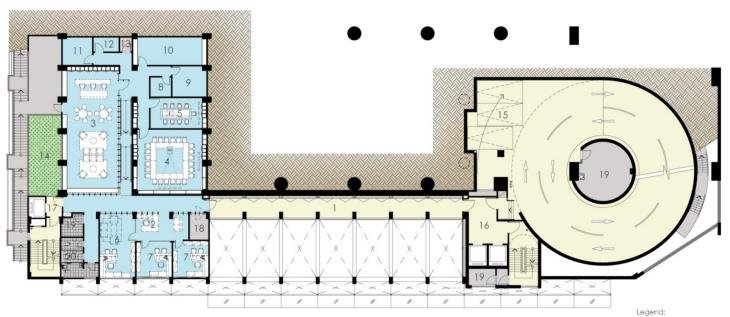




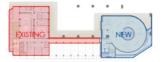
Space overlap studies to optimise use of space









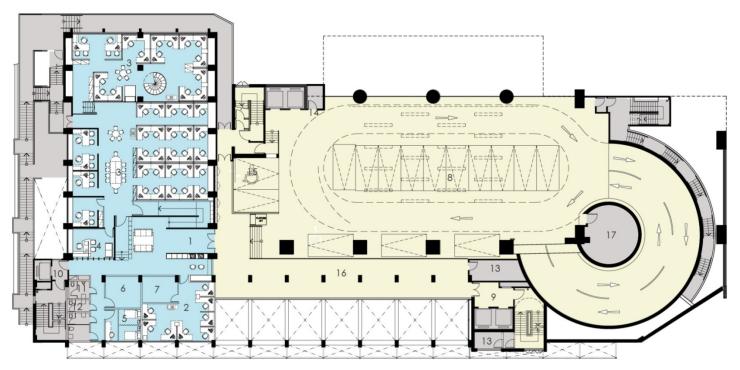


- Gallery
 Secretary
- 2. Secretary
 3. Staff Lounge / Resource
 4. Conference Room
 5. Meeting Room
 6. Principal's Suite
 7. Vice Principal's Suite
 8. ICT / AVA Room

- 9. Server Room 10. ICT Workshop

- 11. Strong Room 12. Printing Room 13. Cleaner's Room
- 14. Green Roof

- 15. Carpark
 16. Lift Lobby
 17. Staff Lift Lobby
 18. Electrical Room
 19. Store
 20. Staff Toilet



- 1. Administration Lobby
 2. General Administration Office
 3. Staff & HOD's Office
 4. Vice Principal's Suite
 5. Sick Bay
 6. Printing Store / Office Equip't.
 7. Storage
 8. Arrival Hall
 9. Lift Lobby
 10. Staff Lift Lobby
 11. Staff Pantry
 12. Staff Toilet
 13. Store
 14. Electrical Room
 15. Loading / Unloading Bay
 16. Gallery
 17. Refuse Room





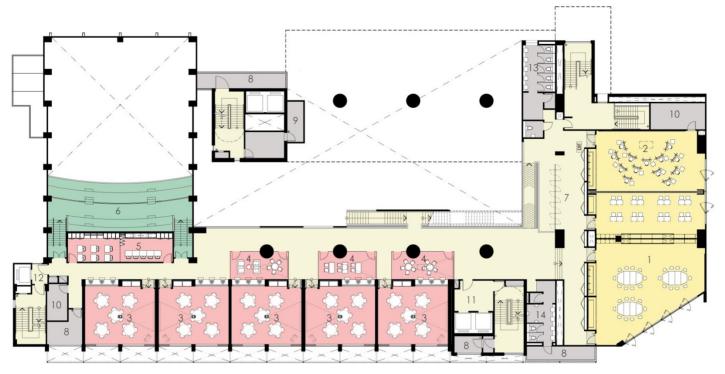


- 1. Plaza
- 1a. Amphitheater
- 2. Library
- 3. Cafeteria
- Kitchen & Servery
 Secondary Classroom
- 6. Think Tank
- 7. Student's Lockers
- 8. Lift Lobby
- 9. Staff Lift Lobby 10. Outdoor Kiosk 11. Male Toilet

- 12. Female Toilet
- 13. A/C Platform / Plant Room 14. Electrical Room
- 15. Store







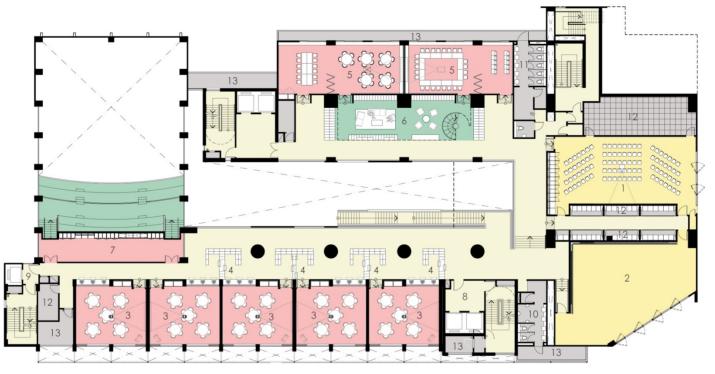
- Art Studio
 Flexible Studio
- 3. Secondary Classroom
- 4. Think Tank

- 4. Inink lank
 5. Small Group Teaching
 6. Study Area
 7. Gallery
 8. A/C Platform / Plant Room
 10. Store

- 11. Lift Lobby 12. Staff Lift Lobby 13. Female Toilet 14. Male Toilet





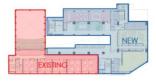


- Seminar Room
 Dance Room
- 3. Secodary Classroom
- 4. Student's Lockers

- 5. Pre-U Classroom
 6. Student Lounge
 7. Small Group Teaching
 8. Lift Lobby
- 9. Staff Lift Lobby 10. Male Toilet

- 11. Female Toilet
 12. Storage
 13. A/C Platform / Plant Room
 14. Electrical Room







- Auditorium
 Secondary Classroom
- 3. Pre-U Classroom
- 4. Student's Lockers

- 5. Audtorium Foyer
 6. Lift Lobby
 7. Staff Lift Lobby
 8. Electrical Room
- 9. A/C Platform / Plant Room 10. Female Toilet

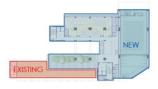


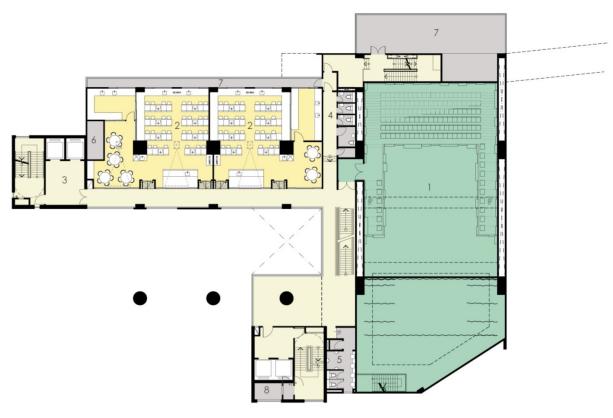




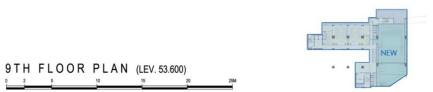
- 1. Auditorium
 2. Science Garden
 3. Junior / Super Lab.
 4. Lift Lobby
 5. male Toilet
 6. Female Toilet
 7. A/C Platform / Plant Room
 8. Store
 9. Electrical Room
 10. Lift Machine Room

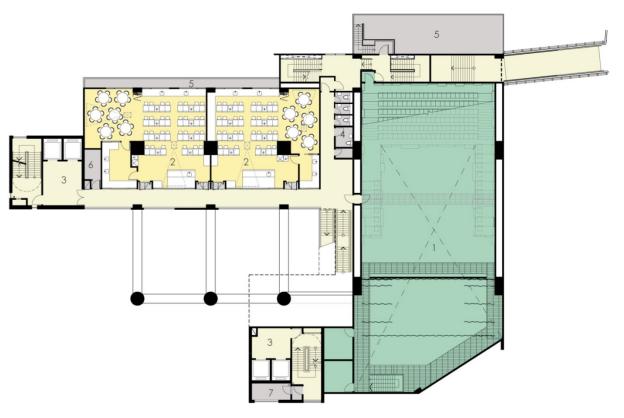




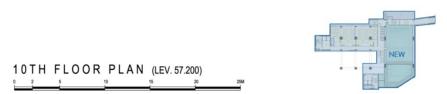


- Auditorium
 Physics & Biology Lab.
 Iff Lobby
 Female Toilet
 male Toilet
 Electrical Room
 A/C Platform / Plant Room
 Store





- Auditorium
 Chemistry Lab.
 Lift Lobby
 Toilet
 A/C Platform / Plant Room
 Electrcal Room
 Store

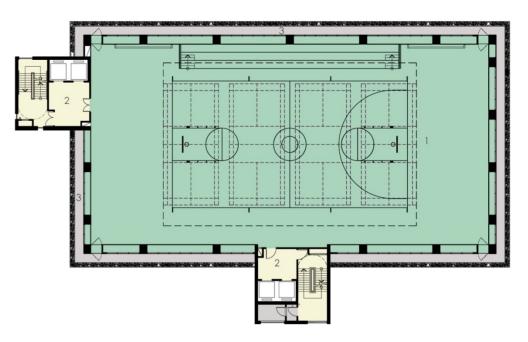




- 1. Orientation Square
 2. Gymnasium
 3. Design & Technology
 4. Male & Female Changing Room
 5. Link Bridge
 6. Liff Lobby
 7. A/C Platform / Plant Room
 8. Store Room
 9. Electrical Room



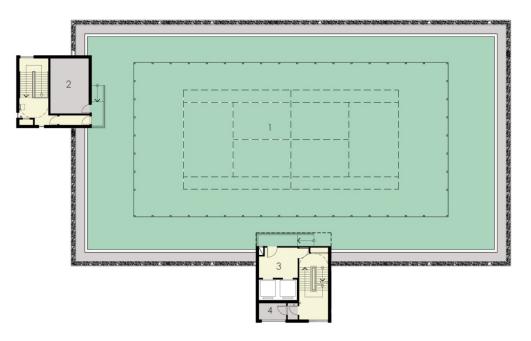
11TH FLOOR PLAN (LEV. 60.800)



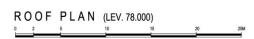
- Sport Hall
 Lift Lobby
 Maintenance Platform







- Multi-purpose Court
 Lift Motor Room
 Lift Lobby
 Store Room





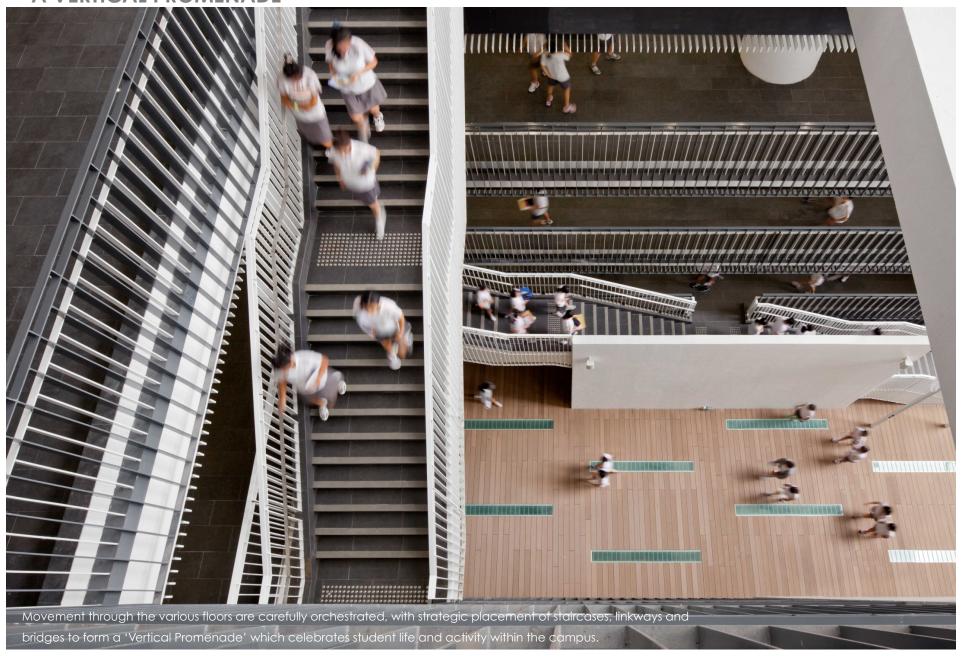
PROJECT DATA

Submitting Firm:	MKPL Architects Pte Ltd
Project Role:	Design Architect
Project Contact:	Pit Li Phan
Title:	Senior Consultant
Address:	150 Cecil Street #12-00 Singapore 069543
City, State or Province, Country	Singapore
Phone:	+ 65 6223 4633
Joint Partner:	WMKY Ltd
Project Role:	Local Architect
Project Contact:	Helen Y L Leung
Title:	Associate
Address:	33/F Hopewell Centre, 183 Queen's Road East, Wanchai
City, State or Province, Country	Hong Kong
Phone:	852 2528 4993
Construction Firm:	Cheung Kee Fung Construction Co. Ltd
Project Role:	Main Contractor
Project Contact:	
Title:	
Address:	G/F Lower Kentucky Industrial Building, 57-61 Lei Muk Road Kwai Chung
City, State or Province, Country	New Territories, Hong Kong
Phone:	852-2337 5069

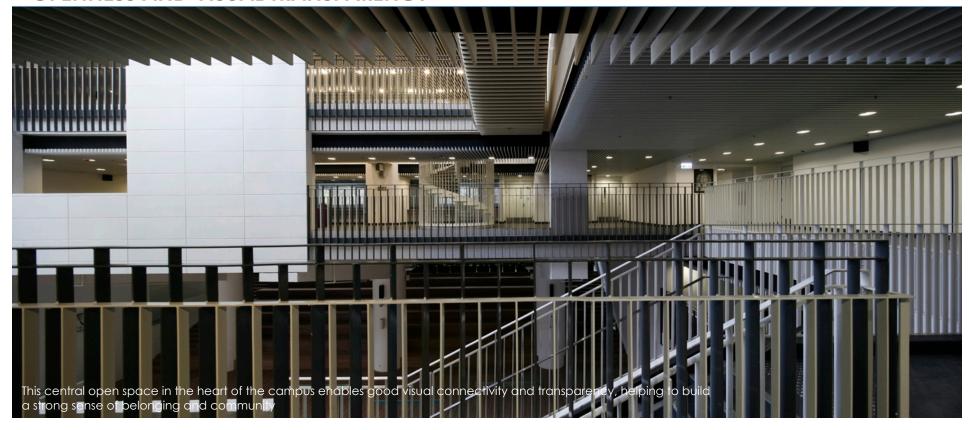
PROJECT DATA

Project Name	Singapore International School (Hong Kong) Secondary School Campus
City:	2 Police School Road, Aberdeen
State:	Hong Kong
District Name:	
Occupancy Date:	August 2011
Grades Housed:	Secondary Year Level 1,2,3,4 and Pre-University Level 1 and 2
Capacity (Students):	600 students
Site Size:	4552 m2
Gross Area:	23000 m2
Per Occupants (pupil):	Approx 16m2 net area per pupil
Gross/Net (Please indicate):	Approx 2.3
Design and Build?	No
If Yes, Total Cost:	
If No, Site Development:	HK\$ 34 million
Building Construction:	HK\$ 202 million
Fixed Equipment:	HK\$ 3 million
Others:	HK\$ 11 million
Total:	HK\$ 250 million

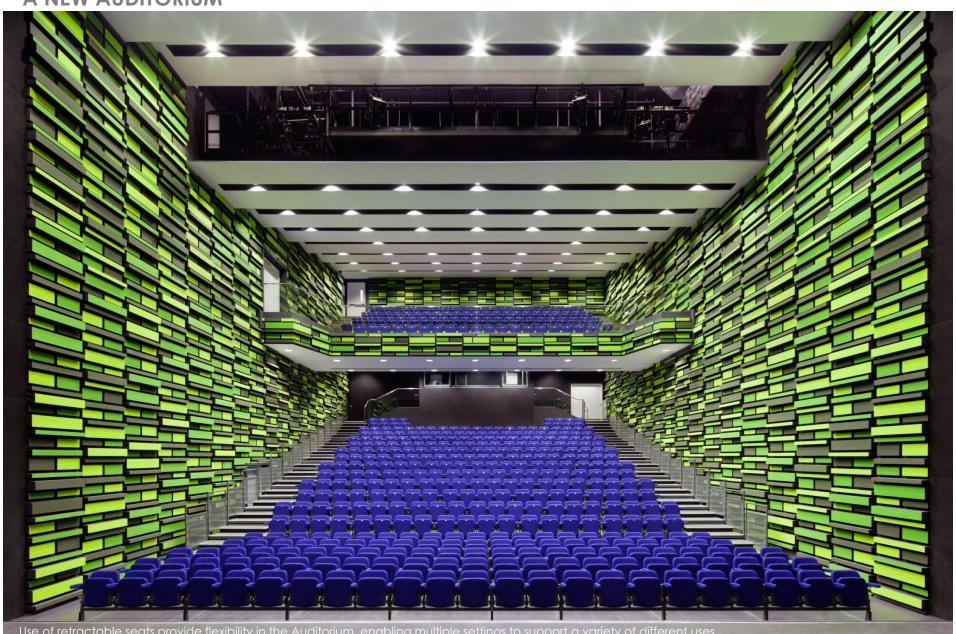
'A VERTICAL PROMENADE'



OPENNESS AND VISUAL TRANSPARENCY



A NEW AUDITORIUM



A NEW SPORTS HALL



