

2014 Exhibition of School Planning and Architecture



Branksome Hall Asia at Jeju Global Education City

Jeju Island, South Korea

Branksome Hall Asia at Jeju Global Education City

This project is about envisioning an integrated living-learning campus which is innovative yet respectful of the culture and character of the site. The campus is seen as 'Sculptures in the Landscape', an inspirational 'landscape for learning', reflecting the ethos and heritage of Branksome Hall with a strong sense of place.



MAIN SITE PLAN

1. Branksome Central

- 1a Entry Forecourt
- 1b Center for Learning
- 1c Administration/Professional Development Center
- 1d Welcome Garden
- 1e BHA Plaza
- 1f Sunken Garden
- 1g Sa:m Center

2. BHA Arts Center

3. Learning Pods

- 3a. Middle Pod
- 3b. Lower Junior Pod
- 3c. Upper Junior Pod

4. Living Forest

5. Wellness Center

- 5a. Café, Dining and Sports Hall
- 5b. Ice Arena
- 5c. Aquatic Center

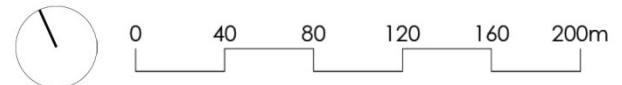
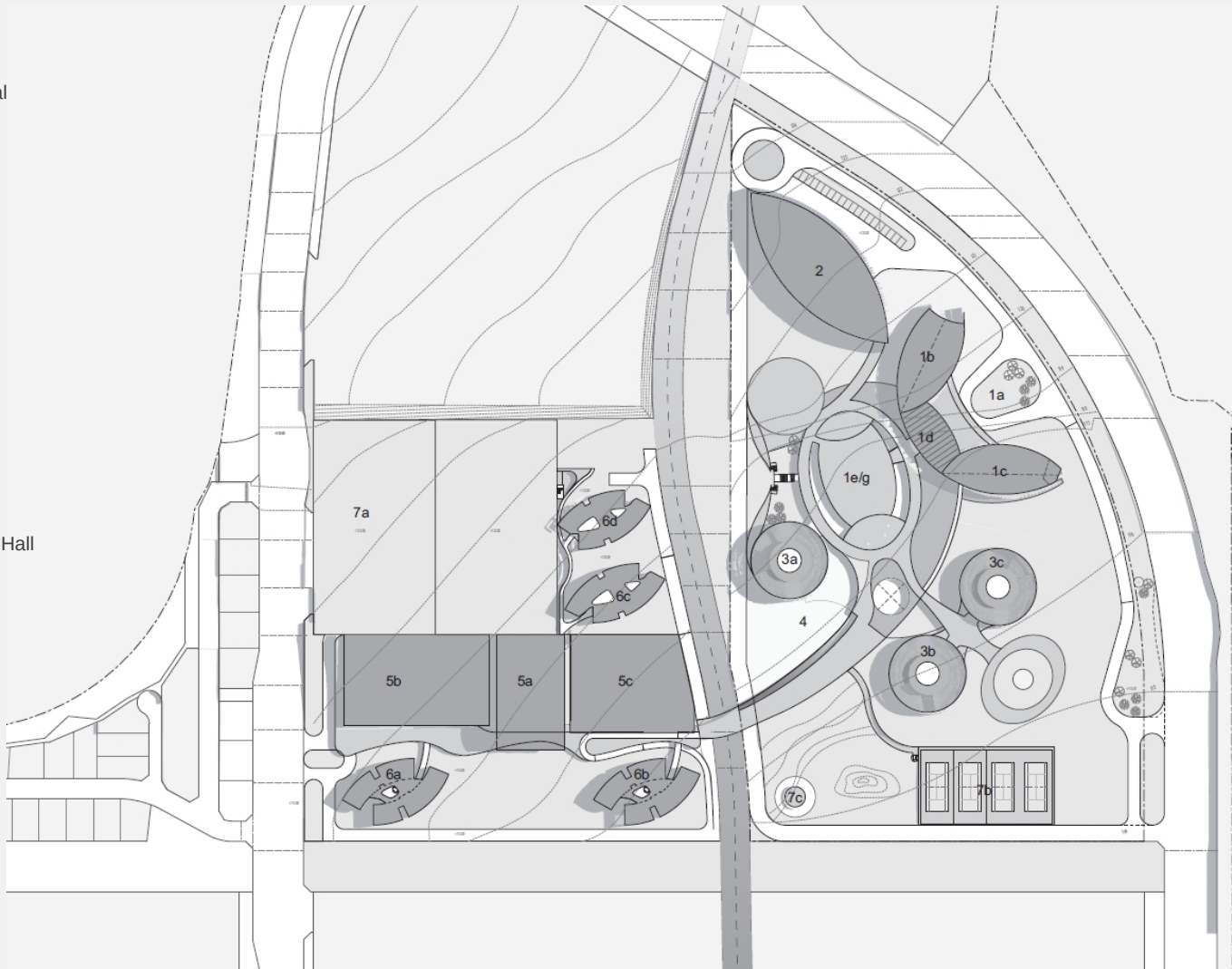
6. Student Residences

Junior Residences:

- 6a. Ainslie House
 - 6b. McNeill House
- Senior Residences:
- 6c. Bondar House
 - 6d. Lockhart House

7. Outdoor Sports Facilities

- 7a. Sports Fields
- 7b. Tennis Academy
- 7c. Golf Academy



COMMUNITY

Strong culture of care and Community

Creating an appropriately-scaled living-learning environment reflecting the strong culture of care and community in Branksome Hall was an important design criteria. Individual 3-storey Learning Pods (each designed for a learning community of about 250 students) with modular learning spaces organized around a central atrium, provide a learning environment which reflect the school's ethos of openness, collegiality and collaboration.



COMMUNITY

Strong culture of care and Community

Careful consideration has been given especially to the planning of the student residences to ensure the wellbeing of the students as well as to foster a strong sense of belonging and community. Different room configurations (eg single-room, two-bedder and Home unit) are designed to cater to specific needs of different age groups. Each student resident block has a central 'Living Room', a skylit mini atrium forming its 'social heart', fostering interaction and community.



COMMUNITY

An open and welcoming campus

The school believes in having an open campus, with its grounds accessible to its surrounding community. The design utilizes the natural topography of the site and landscaping to integrate the campus with its surroundings without compromising on student safety and security. Even though the school campus is split into 2 plots by a public pedestrian street, the undulating site terrain enabled an elevated link ie, The Campus Walk to seamlessly connect both plots of the school into an integrated living-learning campus. BHA believes that 'schools need to operate within the context of the local community, its needs and cultures and be a place of invitation and inclusion'. The site planning and design is guided by this belief and the open, spacious and welcoming landmark campus reflect this philosophy,



LEARNING ENVIRONMENT

Innovation in Learning and Teaching

The vision of Branksome Hall is to develop 'globally-minded learners and leaders'. The educational brief calls for an innovative campus environment which can support new learning – one which is flexible and 'future proofed in terms of adapting spaces, technologies and learning methods'. We imagine the new BHA campus as an elegant, dignified learning environment with a rich blend of building functions, linking living-learning spaces to encourage encounters, connection and communication. The learning environment consists of intimate 'instructional neighbourhoods' (with multi functionality of facility) in a green setting which encourages curiosity, nurtures creativity and celebrates the diversity of its students.



LEARNING ENVIRONMENT



The 'STEM' Centre

The STEM Centre (Centre for **S**cience, **T**echnology, **E**ngineering and **M**athematics) is a central multi-disciplinary learning zone (consisting of laboratories, think tanks, seminar rooms etc with direct access to eco-gardens and courtyards), designed to support the school's inter-disciplinary approach to learning. It is a vibrant learning hub enlivened by continuous circulation with its strategic location directly below the Campus Plaza at the campus centre.

LEARNING ENVIRONMENT



The 'BHA Learning Centre'

The library spaces (for junior and senior schools) are planned as an integrated Centre for Learning with a variety of learning spaces including seminar and training rooms, activity pod, amphitheatre, 24/7 quiet reading room etc. It is also strategically located adjacent to the Professional Development facilities to achieve added programmatic synergies and maximum flexibility.

PHYSICAL ENVIRONMENT

Context, Culture and Climate

The brief called for a design which relates sensitively to its 'Context, Culture and Climate', a campus which captures a 'warm sense of Homeliness, in Harmony with Nature and which reflects a Holistic approach to Education. The project should also incorporate themes of 'Wind, Rock and Women', derived from Jeju Island history and culture.

We imagine the campus to be 'A Landscape for Learning', an environment which reflects integration of buildings with landscape – a unique composition of distinctive (and nature-inspired) forms inter-connected by 'fluid' circulation pathways set in lush native landscape. The campus is open and permeable (allowing abundant natural daylighting into the various spaces on campus, and the possibility of natural ventilation where appropriate) with strong connections to the outdoors. The building adopts a palette of natural materials with extensive use of timber and the local volcanic rock. Various strategies are in place to meet the project's long term sustainability goals.

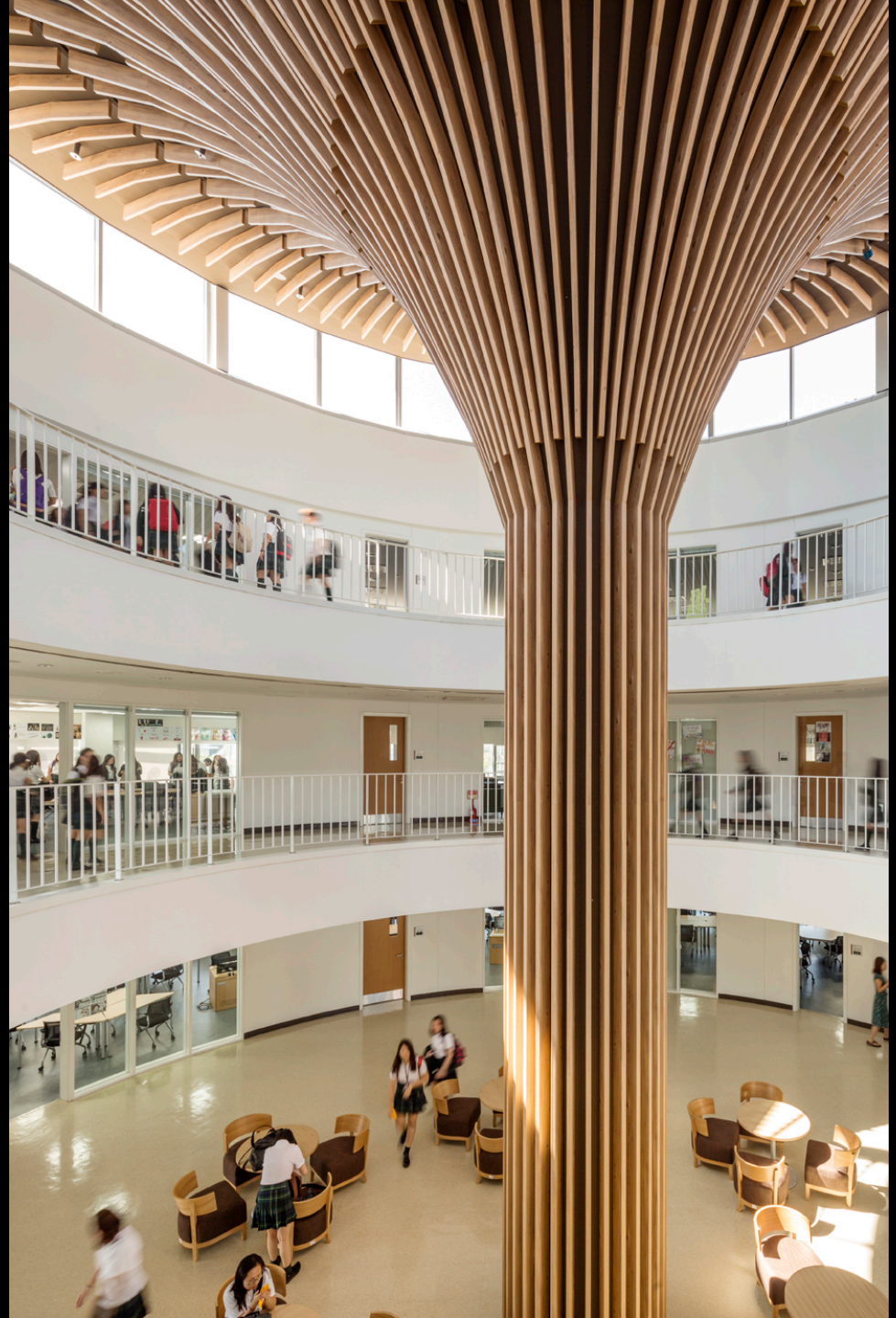


PHYSICAL ENVIRONMENT

An Exemplary Sustainable Campus

The scheme aims to achieve a climate-responsive, ecologically-sensitive design. Key strategies include:

1. **Building Orientation** - The main living and learning spaces are oriented in the north-south direction, to optimise daylighting and minimize solar heat gain.
2. **Heat Recovery System** - The Ice Rink is strategically planned next to the Aquatic Centre to facilitate the implementation of the heat recovery system. Heat generated in Ice Rink can be used to heat the indoor swimming pool
3. **Rainwater Collection** - The roof over the central atrium in each Learning Pod is designed as a 'rainwater collector', funnelling rainwater into a storage tank below ground, to be used for irrigation of the eco-gardens and landscaped courtyards.



PLANNING PROCESS: Engaging the school community

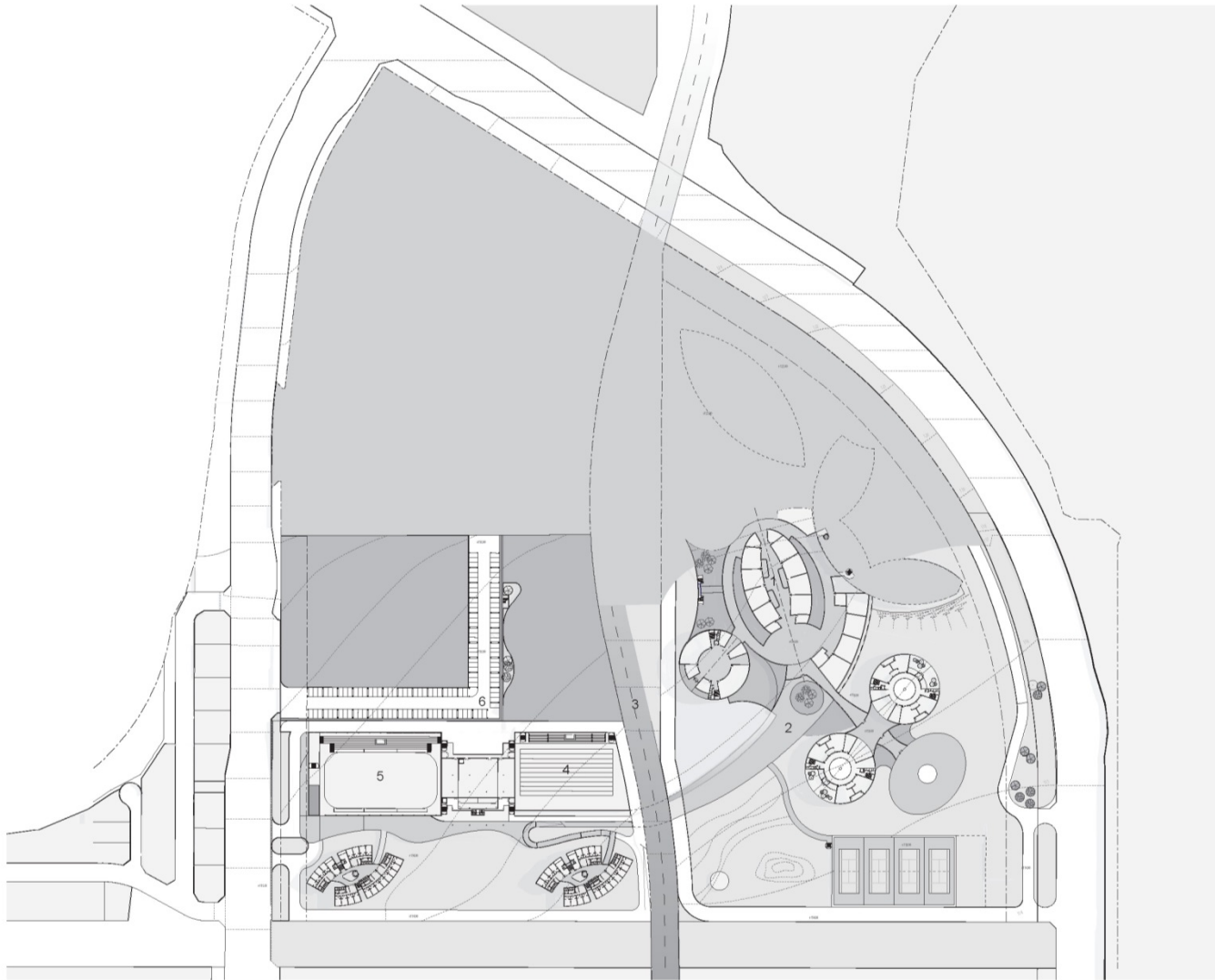
The planning process was very intensive, carried out over a period of 20 weeks. Various stakeholders including Branksome Hall leadership, parents, students, alumni, industry leaders and specialists, educators etc were actively engaged at different stages of the process. The design went through a series of critical and vigorous reviews (in Singapore, Toronto and Seoul), carefully structured to ensure the best design outcome for this unique school campus.

PROJECT NAME: Branksome Hall Asia at Jeju Global Education City	
ACTIVITY	DATE
International Design Competition to select Design Architect	05 July 10 – 04 Aug 10
Project Kick-Off Meetings in Jeju Island (BHA management, design architect, local architect, Jeju Development Corporation, JDC representatives) - Clarification of site information and local planning parameters - Confirmation of project goals and design vision - Confirmation of roles and responsibilities between design architect and local architect - Confirmation on project schedule and identification of key project milestones	05-06 Aug 2010
Work session in Branksome Hall, Toronto - Orientation visit to Branksome Hall (BH) Toronto campus - Benchmarking visit to key facilities eg Ice Hockey rink in Toronto - Stakeholder discussions with Principal, Head of Departments, Faculty members , Board Members and Alumni of BH - Design discussions with BHA Project team to clarify user requirements (eg housing model options/operational needs etc) and explore concept ideas	25-27 Aug 2010
Work session in Seoul, South Korea (BHA, design architect, local architect, JDC) - Review of updated master plan, based on feedback and work session with BH in Toronto - Review of preliminary concept design ideas - Confirmation of plot allocation, master plan and concept approach	14 September 2010
Development of Concept Design (5 weeks) Sketches, plans and layouts were discussed and reviewed regularly with BHA project director, Peter Kenny (based in Hong Kong) via skype, email and on-site meetings in Singapore	15 Sep – 21 Oct 2010

PLANNING PROCESS: Engaging the school community

ACTIVITY	DATE
Peer Review of Concept Design in Singapore A full-day work session was organized in Singapore, to review the project in detail. The work session comprised of 2 parts: • Video conference with the JDC Masterplanner, Itami Jun to explain the design evolution for the project and review the overall concept design of the campus, and its relationship to its context and overall masterplan vision for Jeju Global Education City. The video conference was also attended by local architect and JDC officials in Seoul who provided input and feedback on technical and local compliance issues. • A peer review worksession was also conducted in design architect office in Singapore (attended by BHA project director Peter Kenny, Mary Jane Finlayson, a Branksome Hall alumni and Toronto-based architect invited by BHA, James Daziel and Simon Thomas from United World College, Singapore). The team went through the project in great depth, with the aim to assist with further development of design. Discussions involved sorting out practical issues of campus operations and design, and suggestions made to help strengthen design concept.	22 Oct 2010
Work Sessions (via video conference) with local team (architects, engineers, specialists) based in Seoul, South Korea • Technical discussions were carried out with local architect, C&S and MEP engineers, to coordinate structures and services. • Discussions with Sustainability Consultant and Ice-Rink specialist were also carried out, to explore sustainability features/options for the project. One idea was to use the structure of the Learning Pods as funnels to collect rainwater, which can be used for irrigation of eco-gardens and landscaped courtyards in the campus. The other idea was the Heat Recovery System – heat generated in the snow-melting process in Ice Arena can be used to heat the indoor swimming pool as well as spectator seats in the Ice Arena.	23 – 24 Nov 2010
Schematic Design Review by BHA, JDC and local architect, local architect in Singapore • Representatives from BHA, JDC and local architect came to Singapore for a 3-day work session, to review and work through the technical and compliance issues for the project	01-03 Dec 2010
Final Schematic Design Review in Branksome Hall, Toronto • Review by Design Review Committee (consisting of BH Board Members, Principal, BHA Project Director etc) • Approval and Sign-off of Schematic Design by BH Board • Presentation of approved design to BH Junior School students and faculty • Presentation of approved design to BH Senior School students and faculty • Presentation of approved design to Parents Group • Submission of schematic design drawings to local architect, local architect to carry out design development and tender drawings	06-08 Dec 2010
Formal presentation of Schematic Design to JDC in Seoul, South Korea • Presentation of approved schematic design was carried out in Seoul, to conclude the design process. Meeting attended by BHA Peter Kenny, senior JDC officials, JDC Master Planner and local consultant team	14 Dec 2010

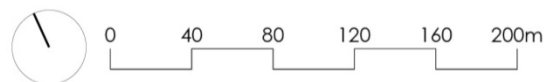
FLOOR PLANS



KEY ELEMENTS

- 1 Stem-V Centre
- 2 Lower Level of Campus Walk
- 3 Public Pedestrian Street
- 4 Aquatic Centre
- 5 Ice Arena
- 6 Car-parking tucked into the sloping ground

Lower Entry Level Plan
Plan Level: +118



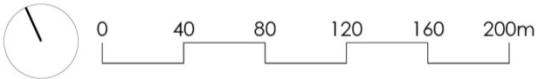
FLOOR PLANS



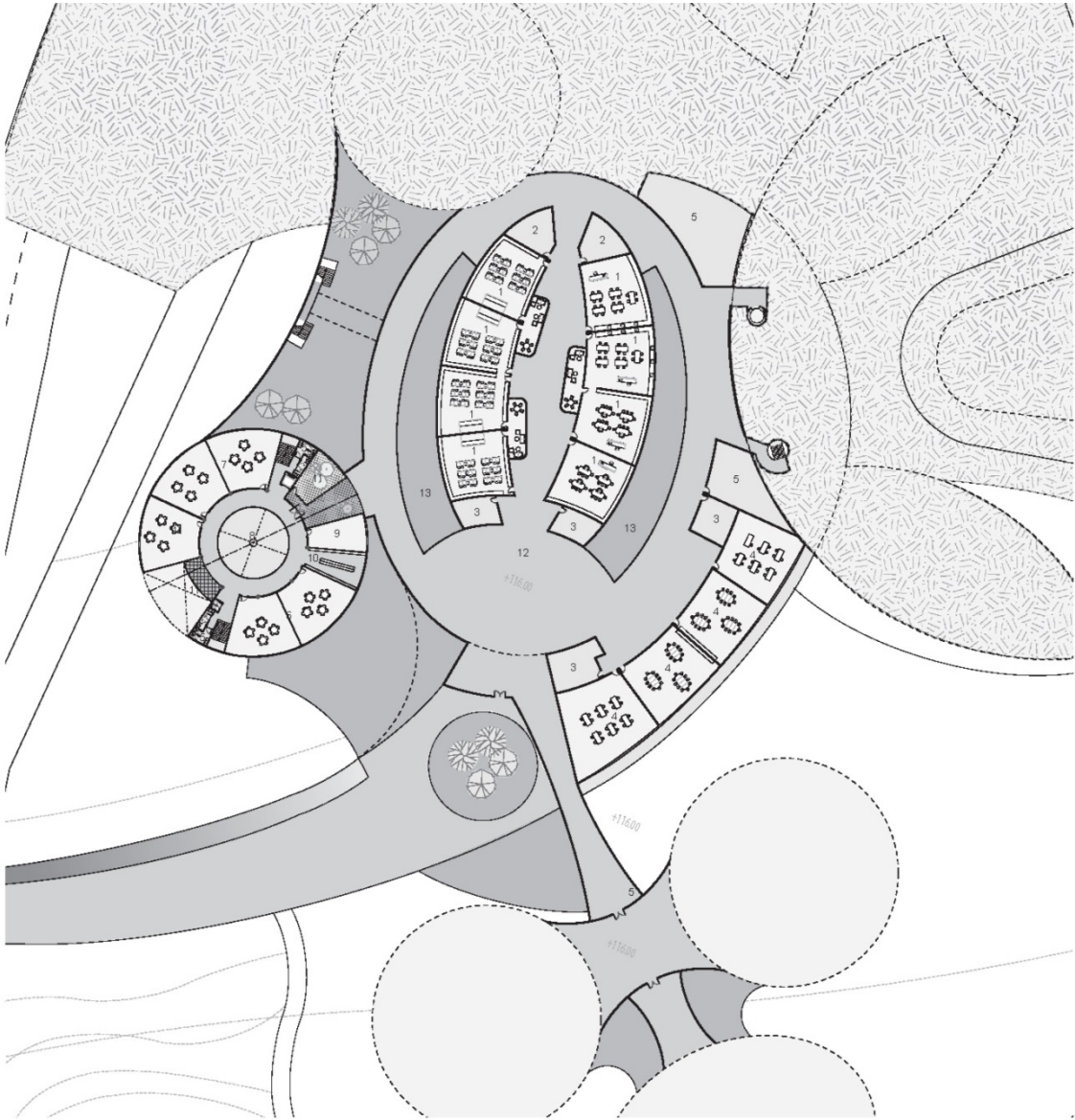
KEY ELEMENTS

- 1 Entry Forecourt
- 2 Welcome Garden
- 3 Campus Plaza
- 4 Campus Walk
- 5 Learning Pods
- 6 Wellness Centre
- 7 Student Residences

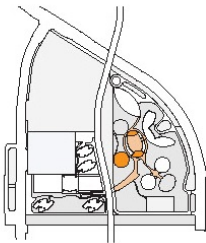
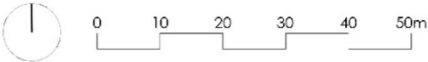
Entry Level Plan
Plan Level: +121



FLOOR PLANS



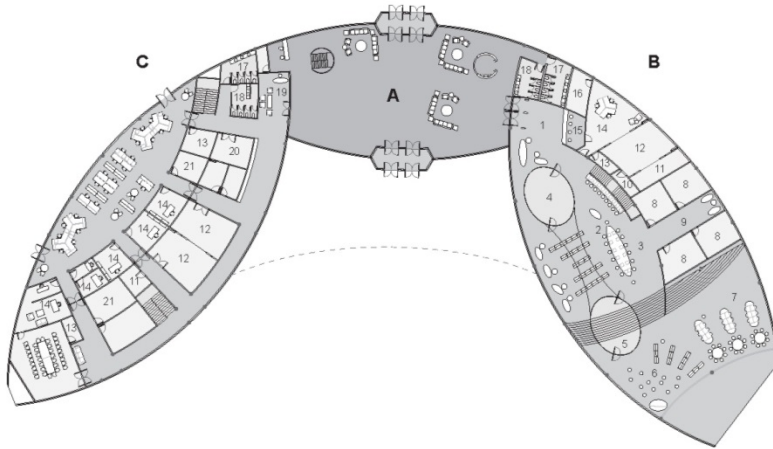
Stem-V Centre
Lower Ground Floor Plan: +116



LEGEND

- | | | | |
|---|-------------------|----|---------------------------------------|
| 1 | Laboratory | 8 | Project Zone |
| 2 | Prep. Room | 9 | Teacher's Work Zone |
| 3 | Staff Room | 10 | Student Lockers / Storage |
| 4 | Art Room | 11 | Seminar |
| 5 | Toilet / Services | 12 | Exhibition / Incidental Learning Zone |
| 6 | Design Studio | 13 | Science Terrace / Learning Gardens |
| 7 | Technology | | |

FLOOR PLANS



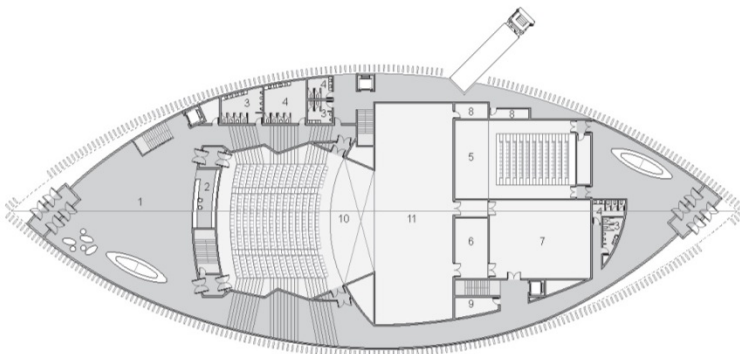
Campus Centre

Entry Level Floor Plan: +121

LEGEND

- A Welcome Garden
- B Centre for Learning (Library)
- C Staff Zone

- 1 Lobby
- 2 Information Zone
- 3 Computer Lounge
- 4 Event Presentation Pod
- 5 Story Telling
- 6 Children's Reading
- 7 Class Zone
- 8 Think Tank
- 9 Creative Zone
- 10 Server
- 11 Storage
- 12 Working Zone (Book)
- 13 Pantry
- 14 Office
- 15 Check / Info.
- 16 Staff Rest
- 17 Female Toilet
- 18 Male Toilet
- 19 Reception
- 20 Meeting Room
- 21 File Storage

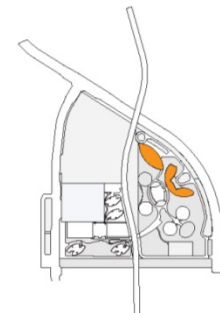


Performing Arts Centre (PAC)

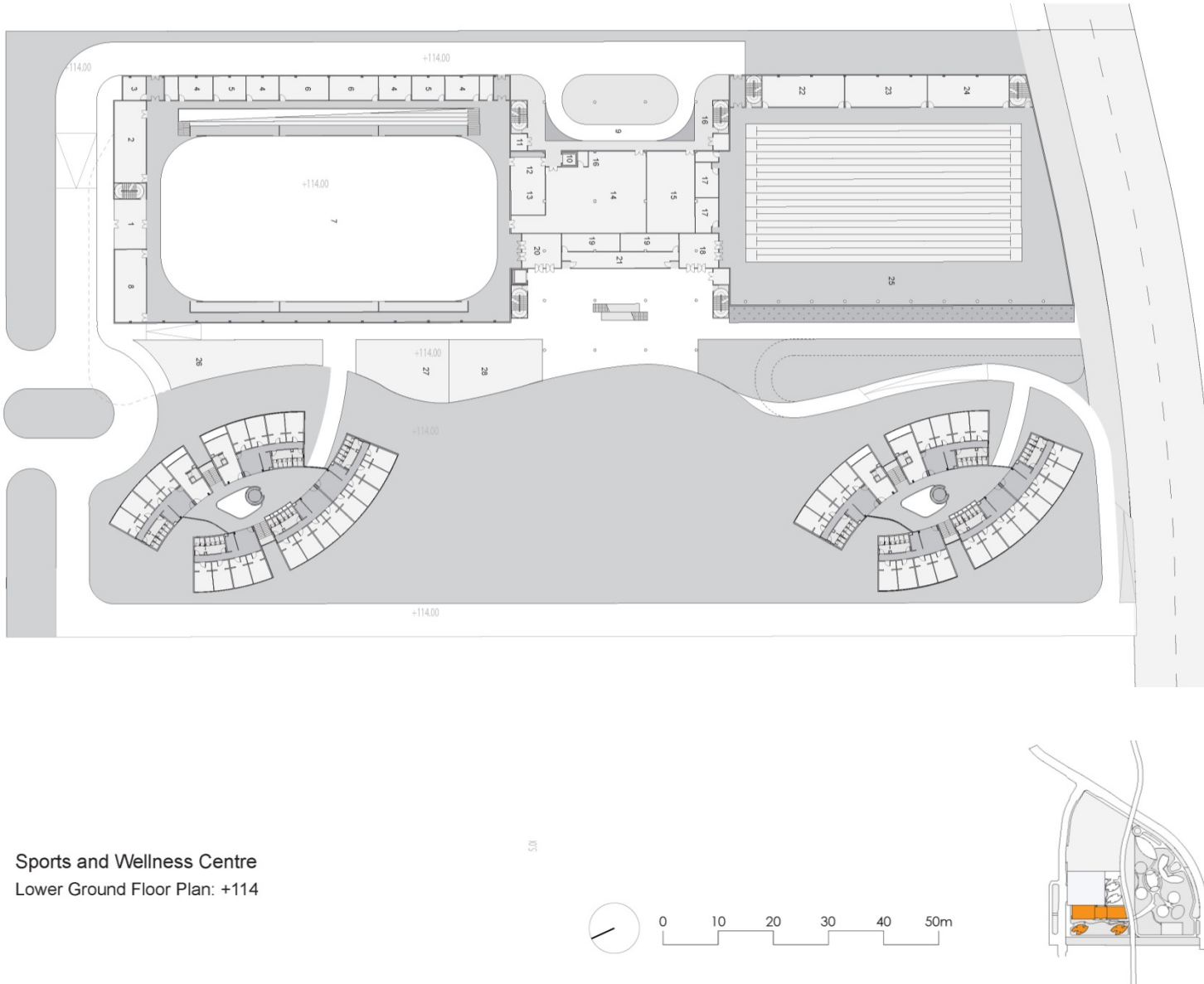
Ground Floor Plan: +124

LEGEND

- 1 Main Lobby
- 2 Cloak
- 3 Male Toilet
- 4 Female Toilet
- 5 Black Box
- 6 Instrument Store
- 7 Rehearsal
- 8 Dimmer Room
- 9 Store
- 10 Orchestra Pit
- 11 Stage



FLOOR PLANS



LEGEND

- 1 Lobby
- 2 Changing Room / Toilet / Lockers
- 3 Tele Comm. Room
- 4 Team
- 5 Locker / Shower
- 6 Pro Staff
- 7 Ice Rink
- 8 Rental Shop
- 9 Service Drop-Off
- 10 Service Lift
- 11 Bin
- 12 Snow Pit
- 13 Resurface Machine Room
- 14 Machine room
- 15 M & E
- 16 Electric Shaft
- 17 Shower / Toilet
- 18 Pool Lobby
- 19 Changing Toilet
- 20 Ice Rink Lobby
- 21 Lockers
- 22 Store
- 23 Coach Room
- 24 Equipment Room
- 25 Pool Dry Side Training
- 26 Admin / Medical Centre
- 27 Yoga
- 28 PE Training
- 29 Club Room
- 30 Kitchen
- 31 Fitness
- 32 AV Control
- 33 Meeting Room
- 34 Cafe
- 35 Toilet
- 36 Canteen
- 37 Outdoor Deck
- 38 Sport Hall

FLOOR PLANS



Junior Residence: Typical Floor Plan

LEGEND

- 1 Student Room
- 2 House Parent's Apartment
- 3 Pantry
- 4 Lounge - 'The Living Room'



Senior Residence: Typical Floor Plan

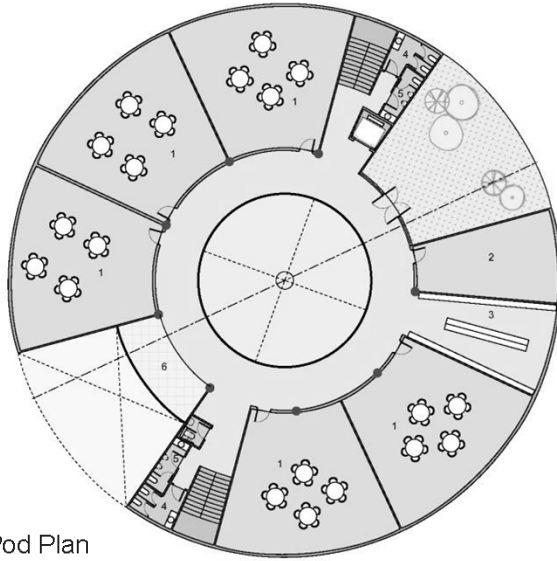
LEGEND

- 1 Student Room
- 2 Don's Room
- 3 Lounge - 'The Living Room'

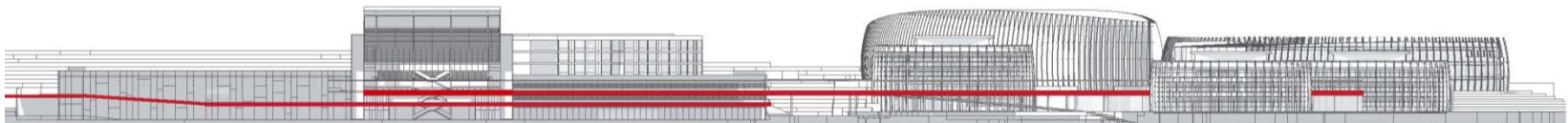
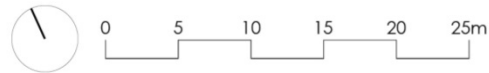
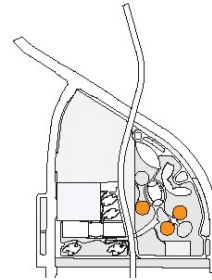


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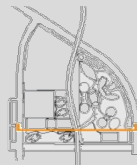
FLOOR PLANS



Middle Pod Plan
1st Floor Plan Level: +125



Section: Campus Walkway



PROJECT DATA

Submitting Firm :	MKPL Designs Pte Ltd
Project Role	Design Architect
Project Contact	Pit Li <u>Phan</u>
Title	Senior Consultant
Address	150 Cecil Street, #12-00
City, State or Province, Country	069543, Singapore
Phone	(65) 62234633, mkpl@mkpl.com.sg

Joint Partner Firm:	Samoo Architects & Engineers
Project Role	Local Architect
Address	295, Olympic-ro, Songpa-gu,
City, State or Province, Country	Seoul, 138-240, South Korea
Phone	(82) 221845114

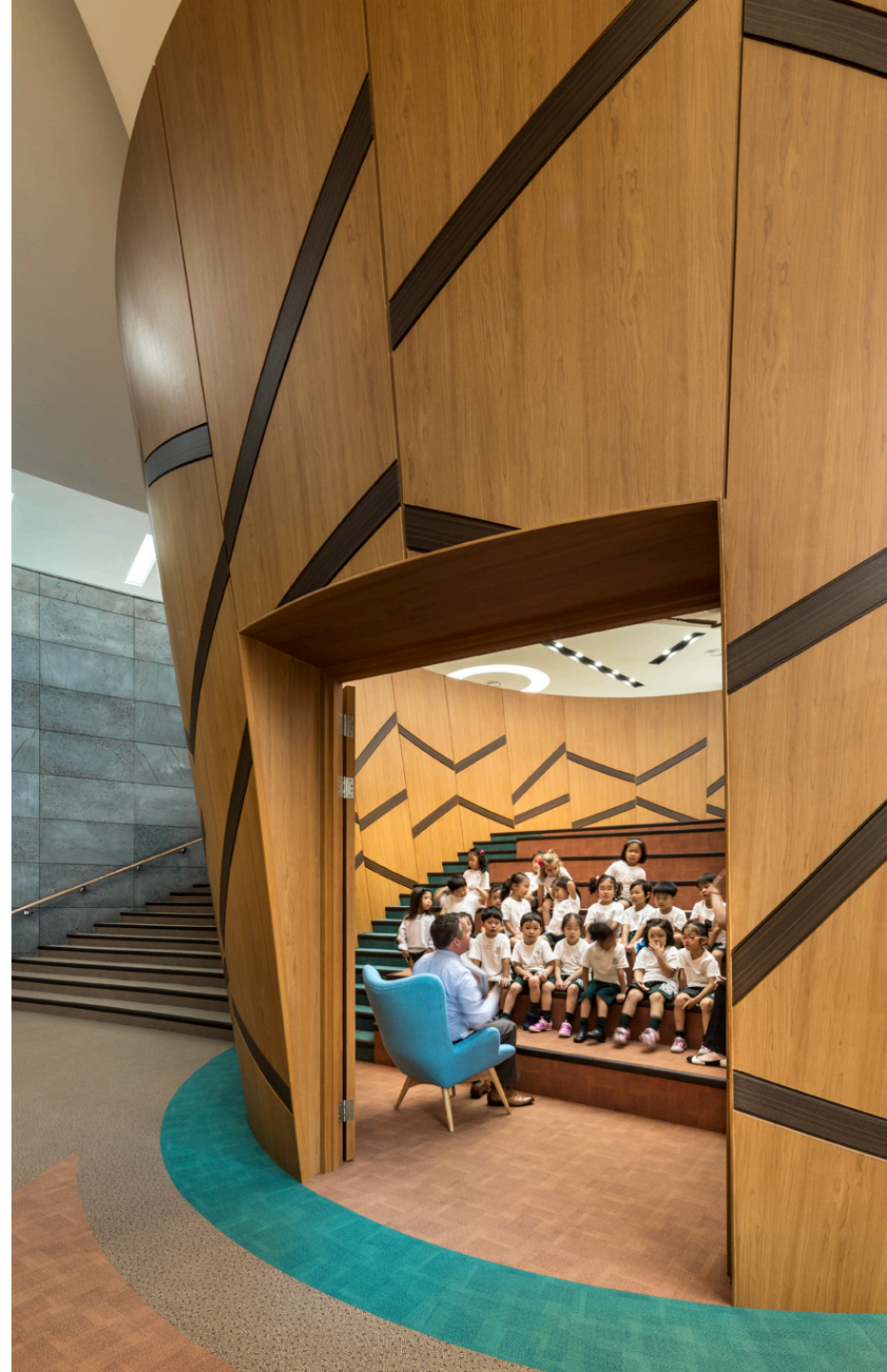
Construction Firm:	Hanwha Engineering & Construction
Project Role	Builder
Address	Hanwha Bldg. 3F~5F #1 Janggyo-dong, Jung-gu,
City, State or Province, Country	Seoul, 100-797, South Korea
Phone	(82) 27292255

PROJECT DATA

Project Name	Branksome Hall Asia at Jeju Global Education City
City	Jeju
State	Korea 699-931
District Name	Special Self-Governing Province
Supt/President	Mr Peter Kenny
Occupancy Date	Oct-12
Grades Housed	K-12 International School Junior Kindergarten to Grade 12 (3-19 year old) Boarding Grade 7-12
Capacity(Students)	1,212
Site Size (acres)	94,955.00sqm (23.46ac)
Gross Area (sq. ft.)	70,211.38sqm (755748.98 sqf)
Per Occupant(pupil)	57.93sqm per occupant (gross)
gross/net please indicate	
Design and Build?	No
If yes, Total Cost:	
Includes:	
If no,	
Site Development:	US \$2,500,000
Building Construction:	US \$138,660,450
Fixed Equipment:	US \$22,000,000
Other:	Landscaping US \$5,000,000 Security US \$500,000 Loose Furniture/Equipment US \$3,562,053 Computers US \$2,271,744
Total:	US \$200,000,000

The Centre of Learning

The Library is strategically located at the Campus Centre and designed to be an active, interactive learning space with a variety of different settings to provide a rich array of learning experiences



The Campus Plaza

The Campus Plaza is strategically located next to the Campus Centre, accessible directly from the Welcome Garden. It is a 'stage' for human interaction-encouraging encounters, collaboration and connections, forming the social heart of the school



A Landscape for Learning

Branksome Hall Asia at Jeju Global Education City

