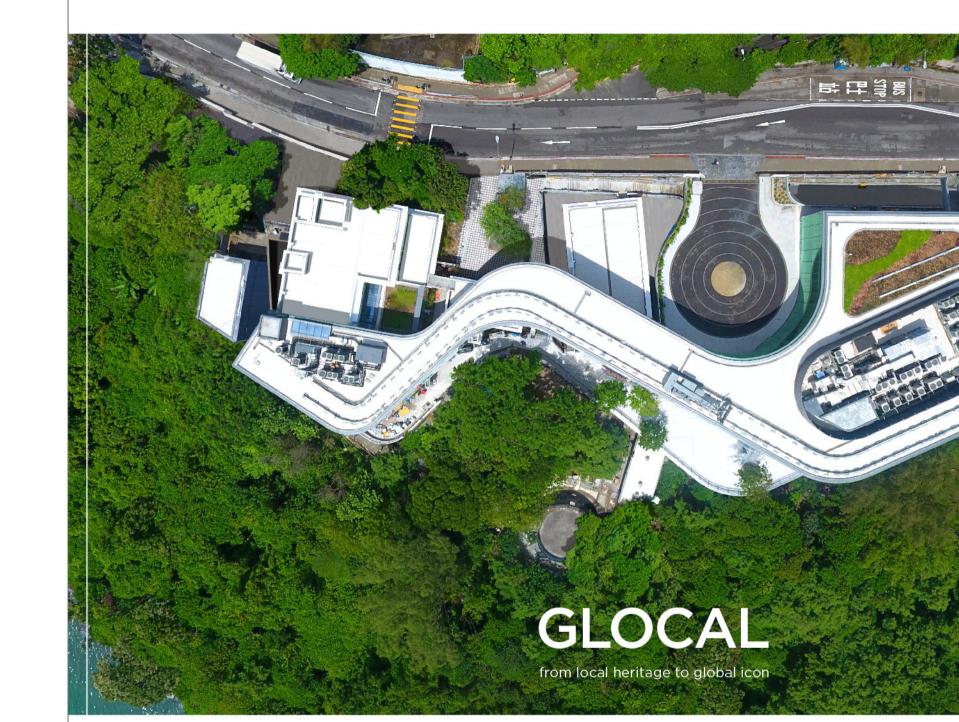




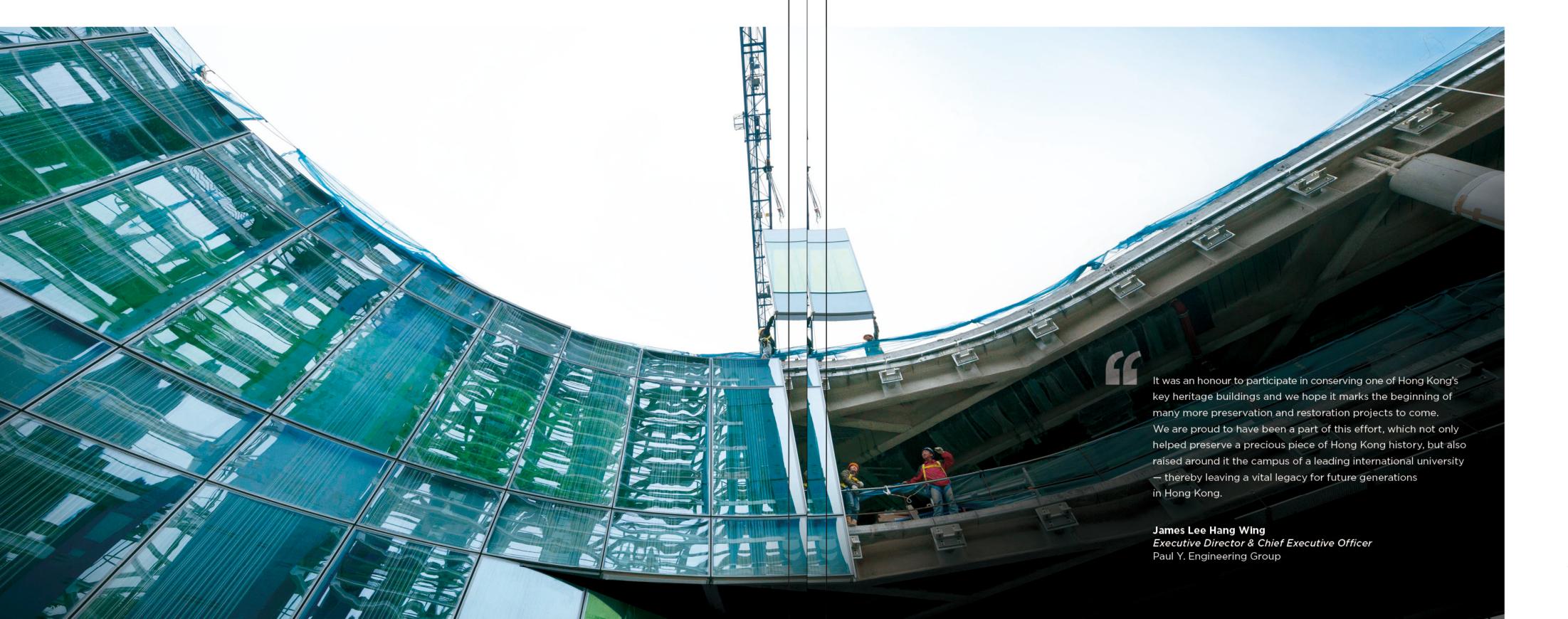
FROM LOCAL HERITAGE TO GLOBAL ICON







Paul Y. Engineering Group Limited





Local Heritage, World-class Appeal

The University of Chicago Center in Hong Kong (UCCHK) is unveiling its new campus to the world, heritage buildings on the west side of Hong Kong Island with a luminous future. Located at the site of the ex-Victoria Road Detention Centre, these Grade 3 historic buildings have been transformed into first-class facilities for one of the top institutions in the world. Its rebirth is a rare hybrid of reclaiming history with state-of-the-art new additions, one that takes heritage restoration to a higher level and sets a new benchmark for local preservation projects.

World-class contractor Paul Y. Engineering (PYE) harnessed its expertise and resources to unite all related parties, successfully navigating the challenges to deliver a construction poised to be a new Hong Kong landmark and international icon.

A Historic Decision

In June 2013, the Education Bureau identified The University of Chicago Booth School of Business as a prospective operator of the ex-Victoria Road Detention Centre for its Executive MBA programmes in Hong Kong. Within the next two years, UCCHK engaged PYE as the main contractor for this prestigious project. PYE, together with other participating parties, conducted numerous feasibility studies, consulted restoration and structural experts and sought government views on regulatory issues.

Construction began in June 2016 and the new campus was open in 2018. Moving its Asian headquarters from Singapore to Hong Kong, University of Chicago looks to cement its status as a top global educational institution.

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Hybrid Heritage: Above and Beyond Restoration

The majority of restoration and revitalisation projects today seek only to preserve the facade of the heritage buildings, with adaptive facilities for modern use. The new UCCHK campus showcased a ground-breaking perspective that respects both heritage buildings and the natural landscape, while adding a brand-new structure. PYE and the project team seamlessly merged these elements through cutting-edge design and construction techniques. Not only was this a valuable experience to PYE, but the rarity of such hybrid project in Asia means the success of UCCHK has the potential to inspire others.

British Army Royal Engineers' Mess and Quarters



Preserving Historic Moments

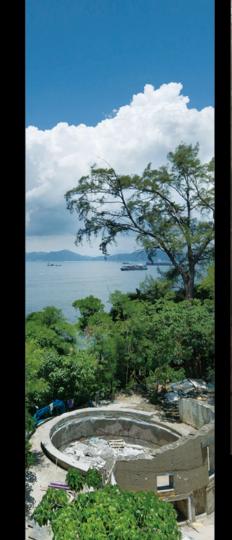
PYE believes conservation is the natural partner of construction, as only through respecting the past can we innovate and build our future. Conservation serves to remind us of our shared identity, while preserving our history. The historic buildings at the site reflect three key historic uses:

It was originally part of the Jubilee Battery in the late 1930s, the British Army Royal Engineers'

Mess and Quarters in the 1950s and the Victoria Road Detention Centre in the 1960s, which represent key milestones in Hong Kong's modern history.

Part of Hong Kong's Historic Defences

The location of the site was part of the Jubilee Battery, a vital part of Hong Kong's defences against the Japanese troops during the Second World War (WWII). Situated at the seaside and west point of Hong Kong Island, at the foot of Mount Davis, the site served as a strategic military base in wartime.







Ruins from that era still remain. Some of them, including the Battery and the Magazine rooms, are preserved, along with the heritage buildings, to commemorate the war and the all-important defence of the island during WWII.

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A Symbol in Hong Kong's Collective Memory

Known as the "White House" for its tall, white walls, the Victoria Road Detention Centre saw heavy use in the 1960s. It was also known as the Mount Davis Concentration Camp, where the Special Branch of the Royal Hong Kong Police Force held political prisoners during the 1967 riots. This tumultuous time saw a period of large-scale social mobilisation throughout Hong Kong, an important period that had far-reaching impact on the region's social development.



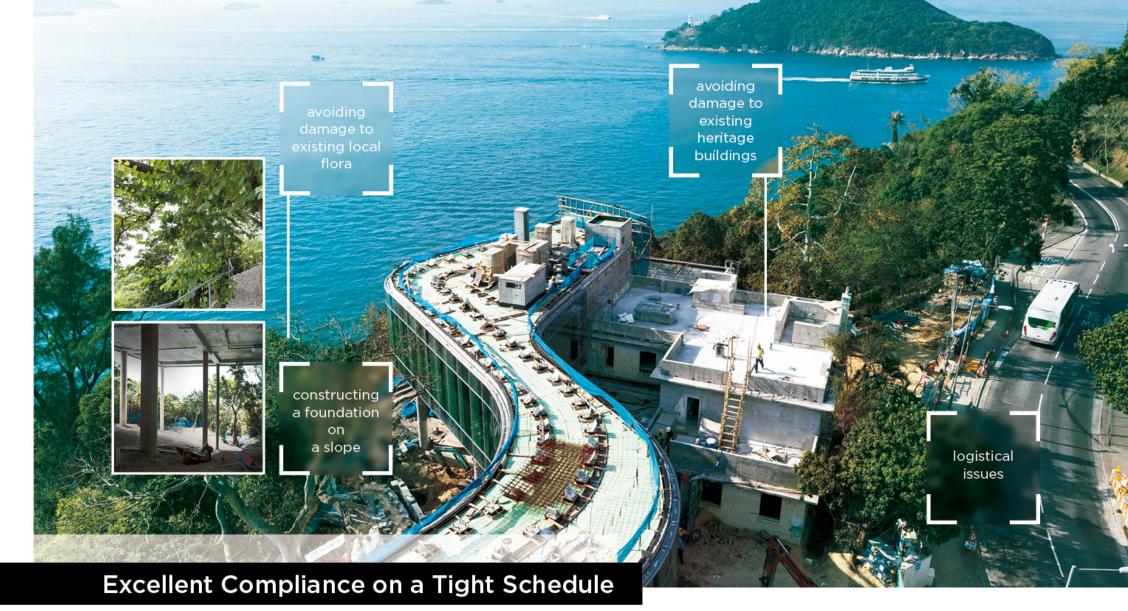


A Window into the Hong Kong that was

The simple and functional design of the White House is representative of the International Modernism style, which explored new materials, rejected classical precedents and sought to simplify design by reducing ornamentation and emphasising architectural space. This architectural style was developed in the 1920s and 1930s, and became a dominant architectural style in Hong Kong's government buildings throughout the 1950s. As such, the White House provides a looking glass into the era of British Colonial rule and the social development of this era.







As a project with significant cultural value, the UCCHK campus involved many government departments, including the Education Bureau, Antiquities and Monuments Office, Transport Department, Lands Department and Buildings Department. This required much coordination and paperwork, such as floorplan approval and licence applications, which PYE skilfully tackled in spite of the many stringent legal requirements.

In all, PYE only had 2 years to complete the project. The schedule was so tight, PYE found itself handling many tasks concurrently and even re-sequencing its procedures, demonstrating immense flexibility and execution skills.



With space already at a premium on-site, the logistical challenges were further compounded by the location adjacent to a seaside road with heavy traffic. Transporting, storing and disposing of building materials all became daunting tasks. Leveraging its tremendous building innovation and prowess, PYE coped with the challenge by using a massive tower crane to move materials in and out of the site vertically.

Overcoming Space Constraints

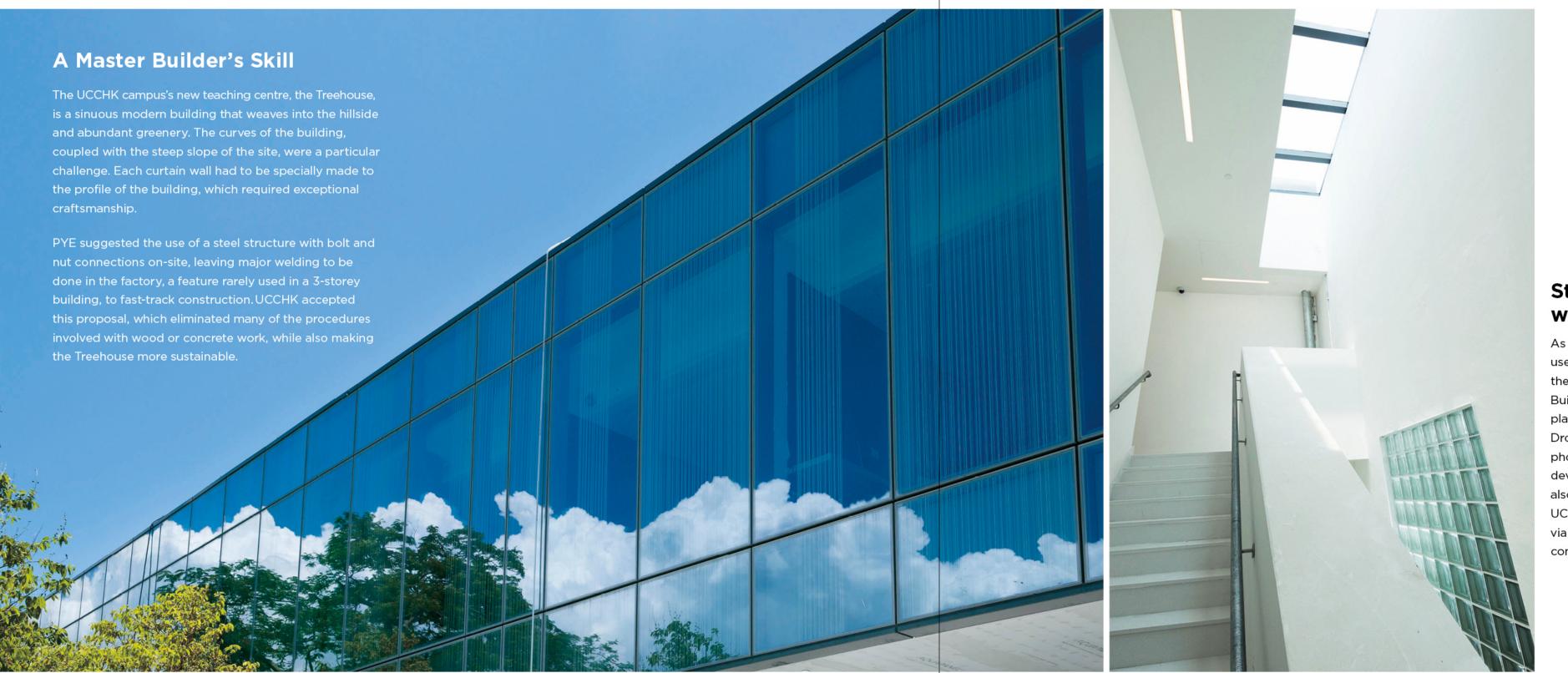
Through coordination
with the Transport
Department, the team
was also able to alleviate
traffic congestion and
disturbance to residents.





Steeply Built to Last

The UCCHK campus is located on a slope with a nearly 30-degree incline. Large areas cover significantly different levels, complicating construction. PYE's team first built a battery of mini piles 15m deep, and supporting columns ranging from 2m to 20m high, in order to support the foundation. Completing the foundation and site formation works accounted for a full year, or half of the estimated project schedule. Construction of the superstructure (lower ground floor of the new campus) could not begin until July 2017, when the foundation work was accomplished. In the face of such huge challenges, PYE's excellent building expertise shone through.



Streamlined with High Technology

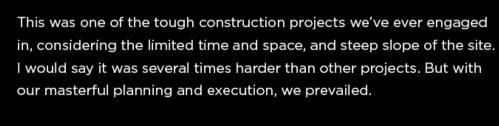
As one of Hong Kong's pioneering firms in the use of high technology to simplify and streamline the building process, PYE extensively deployed Building Information Modelling (BIM) to effectively plan, design, construct and manage the project. Drones were used from time to time to take photos to keep UCCHK apprised of the site's development. A set of CCTV cameras were also installed on site and equipped with Wi-Fi. UCCHK and relevant parties could control these via their mobile phones to stay posted on the construction's progress.





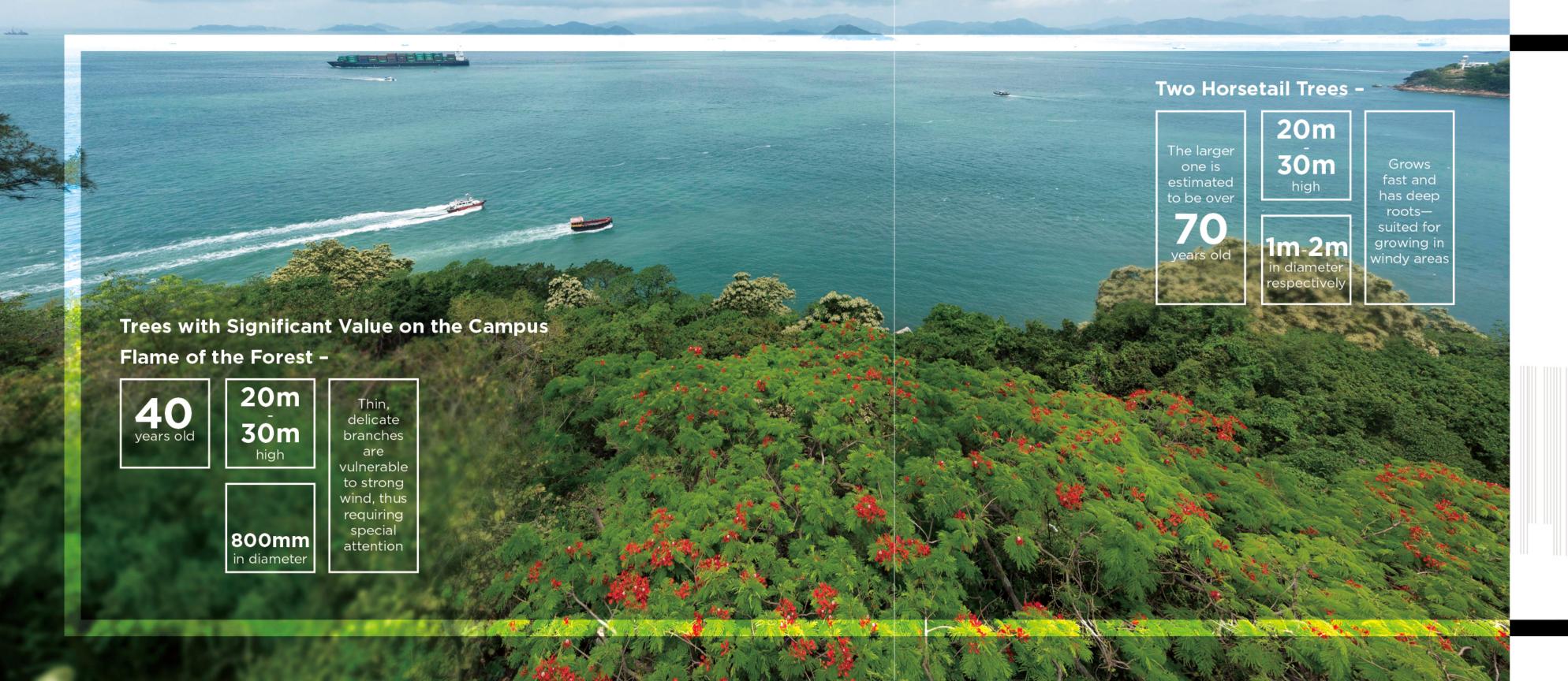
Building New Doesn't Mean Destroying the Past





In Hong Kong, our heritage is vanishing day by day. Our philosophy for economic development seems to be to "demolish and rebuild" at a profit. This isn't healthy. Development and conservation can happen together. It may come at a higher cost, but judging from the results of the UCCHK campus, it's worth our while to do.

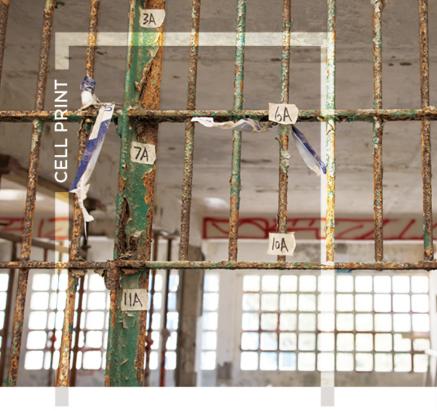




Preservation Down to the Last Detail

Critical to the project was preserving the Grade 3 historic buildings' historical authenticity. PYE collaborated with conservationists to conduct state-of-the-art preservation and restoration work, sparing no expense or time and utilising meticulous craftsmanship.

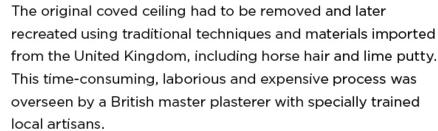
Premium materials were manufactured via traditional techniques or imported to ensure that new and old merged seamlessly and sustainably. From the permeability and breathability of the paint to the fine plasterwork, everything was done to be as authentic as possible. Education and training were also provided to workers on-site to avoid unnecessary damage to existing heritage elements.

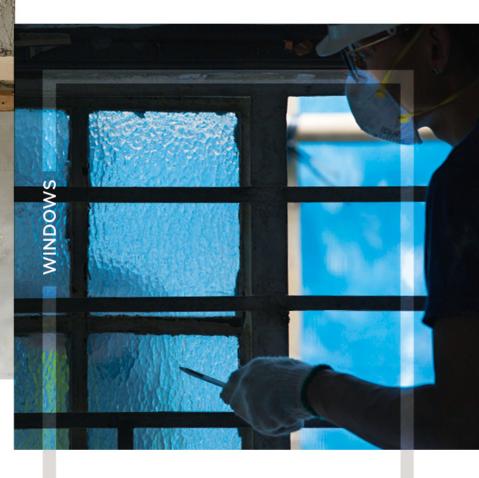


The original prison cells featured floor-to-ceiling blockwork. PYE took pains to preserve this in the least intrusive way. A very advanced product, lithium silicate, was chosen to protect the structure. This had to be imported from Europe, where it has previously been used in the preservation of ancient cathedrals.

All the slabs in Block A and B were taken down in order to reinforce the structure. Big steel channels were used to brace the historic gun turrets, battery and magazine area while this was done.



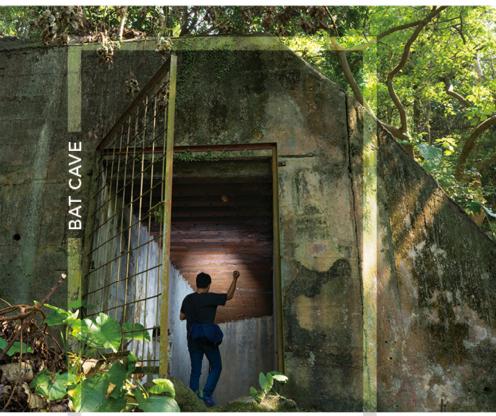




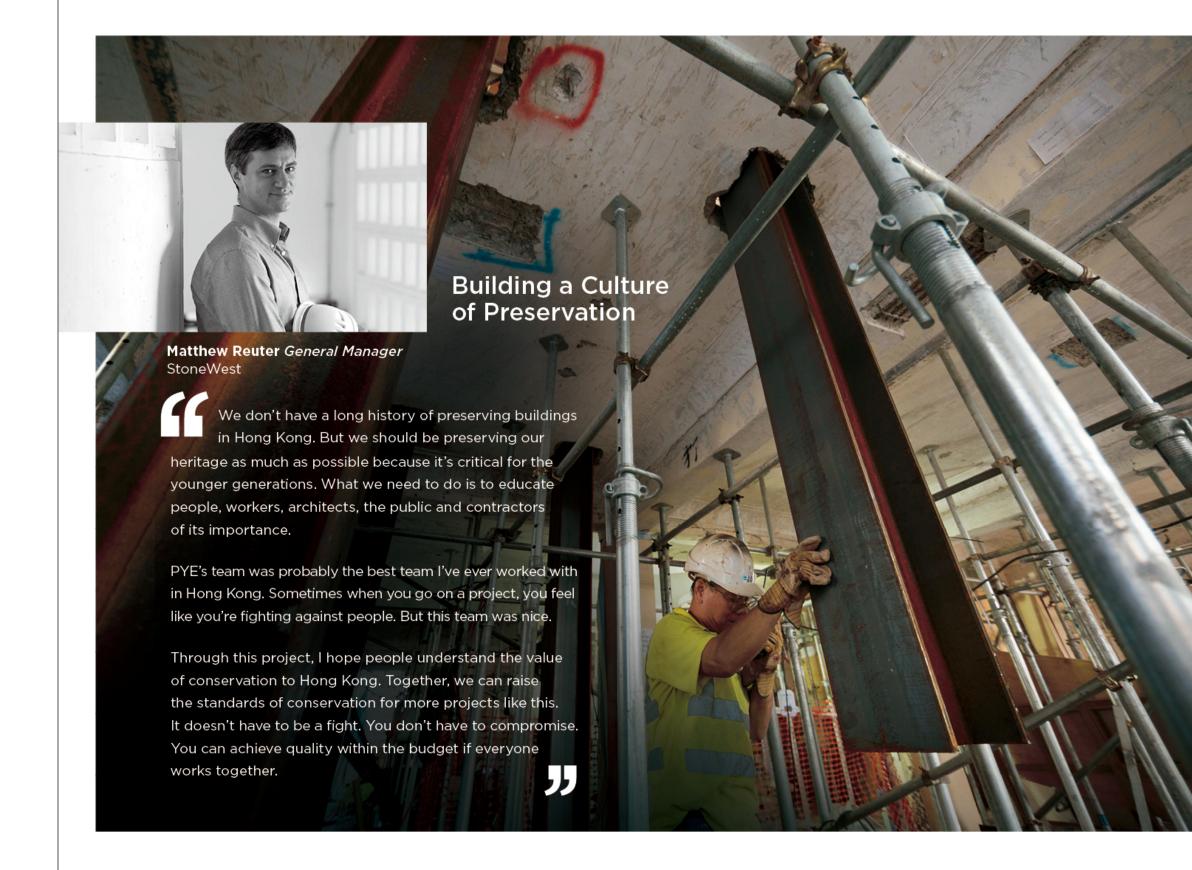
The original brittle windows, though irreplaceable, had to be changed to meet current safety standards. Sourcing replacements that were as close as possible to the originals was a lengthy process and required immense cost as each bespoke section of glass was handmade in Europe.

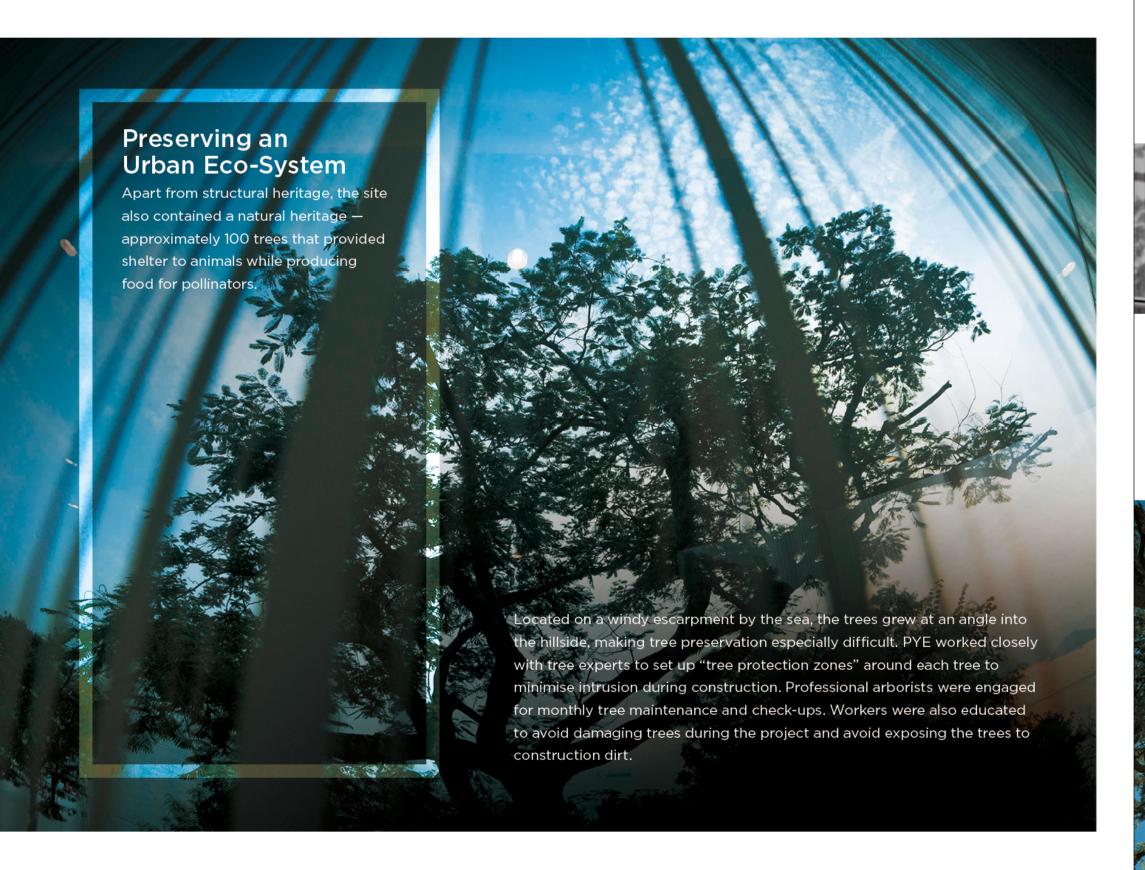


The only slabs of masonry kept in place within the heritage buildings is the traditional fireplace. Throughout the reinforcement work on the main buildings, huge steel structures were installed to maintain these items in place—a significant cost, but well worth it.



A cave located within range of the magazine was a habitat for local bats. Minor strengthening work was carried out on its surroundings, but the cave itself was left 'as is'. The team went so far as to monitor vibrations at the site, to minimise disturbance to the bats.





Keeping Nature Close to Heart



Jacky Lau Assistant Manager Arboriculture Oriental Landscapes Limited



Construction doesn't have to mean destruction to nature. In fact, with proper planning and execution, building procedures can be carried out in a way that won't harm trees and other on-site plants.

I think the UCCHK campus has set an excellent example of good practice in tree preservation. PYE's team was very professional and did a great job in this regard. The workers took all measures necessary to ensure minimum disturbance to the trees, so all the trees are in great shape and I'm sure they will provide the new campus with amazing greenery.

Coordination among different stakeholders was one of the challenges in this historic conservation project. During the construction process, thanks to the effective communication between different working groups, we managed to overcome difficulties and obstacles through cooperation and combined effort, and successfully realised a mission of turning these Grade 3 historic buildings into world-class educational facilities, which was particularly meaningful.



Pui Chiew Associate Director Arcadis







Teaching Based in the Old and New

The new UCCHK campus houses a teaching centre for study abroad programmes within the University of Chicago Booth School of Business's Executive MBA programme, as well as new and expanded programmes on social innovation and entrepreneurship, serving as a base for academic exchange, collaboration and engagement in Hong Kong, China and Asia.

In addition to the brand new Treehouse, the preserved heritage buildings have been adapted into functional classrooms. Students are able to use modern academic facilities in historic buildings, alongside many preserved items, such as the cell prints and fireplace.





History as a Social Blueprint

The Block B Annex, courtyard, white fence walls and former guard post have been transformed into the Heritage Interpretation Centre illustrating the history of the ex-Victoria Road Detention Centre. These facilities are open for public appreciation with guided tours.

Extensive hiking trails traversing the site have been reconnected and integrated into the new campus, with plans for ongoing maintenance. The battery within the site has also been retained and is open to the public via the modified trails. Visitors may take in the natural environment as well as extraordinary sea views from the landscape deck.



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Revitalising Lived History for the Future

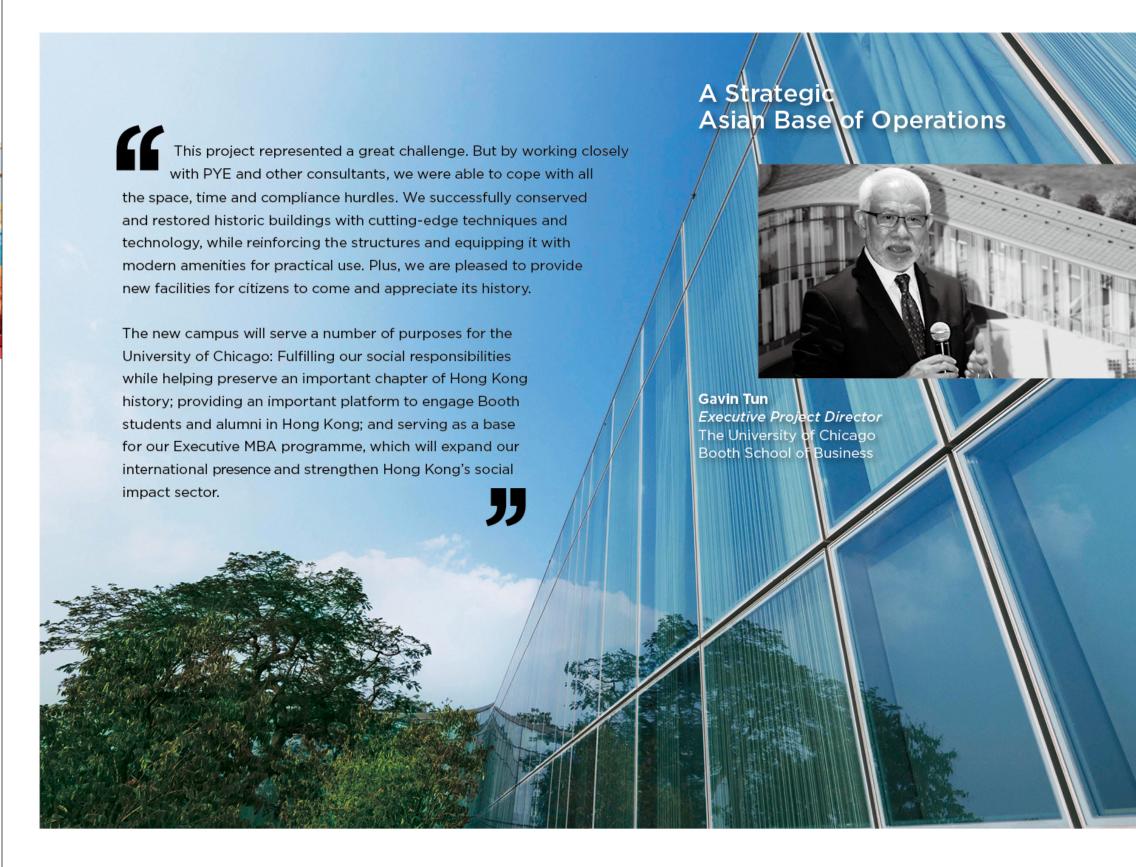
Conservation and education are perfectly matched—by preserving heritage we leave a valuable legacy for future generations; through education we sow the seeds of knowledge (an intangible legacy) for their benefit. The new campus has a fitting operator, the University of Chicago, one of the world's top educational institutions. With internationally acclaimed Executive MBA courses and the prestige of a university that has produced among the most Nobel Prize winners, it represents education at its finest.







The University has turned the former detention centre into a treehouse of ideas with a history and a story to tell. Not only have the heritage buildings been preserved and restored for education, they also serve as a place of inspiration, an icon for global education and collaboration that consolidates Hong Kong's status as a key education and research hub.









2016

Jun Commencement

Asbestos Removal, Demolition, Tree Felling, Foundation and Site Formation Works

New Building

Steel Structure Completion

Dec New Building Topping Out

Feb New Building Weather Tight

Apr to Mid of Jun Statutory Inspections

28 Jul Move-in

Mid of Jul OP Issuance









