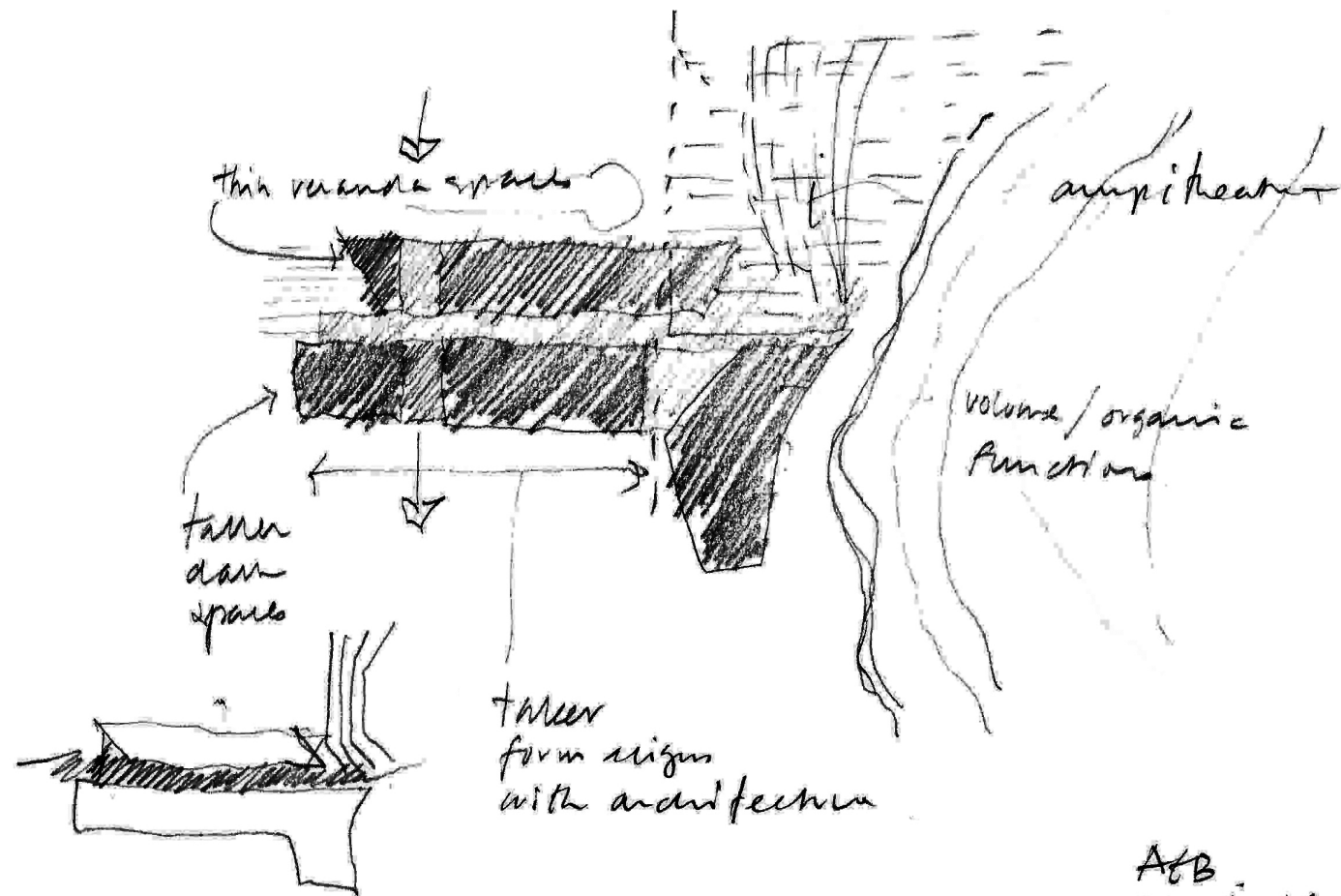




kirk



A&B
 22.6.19.



KIRK's purpose is to create enduring, memorable and responsible architecture. The studio delivers crafted works that advance sustainable development goals, recognising that designs need to look beyond the brief and respond to a range of futures.

kirk
 EDUCATION



INTRODUCTION

EDUCATION EXPERTISE

Globally, high quality education is recognised as a fundamental building block of knowledge-based economies. Dramatic changes in the structure and delivery of education have been driven by the onset of information technologies and the embrace of social and collaborative learning. As a highly competitive sector, the need to attract the best and brightest staff and students has impelled a greater focus on the strengthening of identity and reputation through the provision of high quality physical environments for teaching and learning.

KIRK brings over twenty-five years of experience to bear on the complex issues raised by the design of educational and cultural facilities. Its expertise has been shaped by projects for leading, comprehensive and research-intensive universities involving the interrelationship between high quality teaching and the outcomes of research initiatives and findings.

KIRK has developed open and inclusive consultation processes that involve all levels of the clients' decision and user group structures in the shaping and refinement of design proposals. These processes have helped marshal more effective use of resources, enhance and develop new forms of teaching, learning, research and public spaces in the efforts of strengthening the expression of the respective institutions' mission and identity.

All projects have been underpinned by a fundamental commitment to the achievement of a high level of sustainability and environmental performance to minimise energy consumption and to best harness each project's particular physical and cultural context through enrichment of spatial experience and the generation of innovative designs.

KIRK's corporate ambitions are to advance the mission of its clients through purposeful architectural outcomes - and to advance architecture.

KIRK's achievements can be measured by the generous appreciation and feedback given by clients, user groups, and the numerous awards received such as KIRK's unprecedented receipt in 2014 of three top-ranking national architectural awards for the Advanced Engineering Building of the University of Queensland. KIRK also won the inaugural Queensland Medallion and two named awards during the 2020 Australian Institute of Architects State Awards. Such recognition from peers provides a resounding affirmation of the achievement of a holistic architectural ethos embodying a comprehensive, innovative and adventurous response to the challenges and opportunities offered by each project.

Richard Kirk, LFRAIA Hon. AIA
Founder and Director, KIRK



ADVANCED ENGINEERING BUILDING, UNIVERSITY OF QUEENSLAND

KIRK

Multiple studios using lean, project-focused teams.

A collaborative practice that supports, creates and explores.

Committed to making authentic buildings and places.

Advocating, advancing & delivering sustainable design solutions.

Environmental performative design creating scientifically driven designs.

JAMES COOK UNIVERSITY
ENGINEERING & INNOVATION PLACE
TOWNSVILLE, AUSTRALIA





The EIP is a unique opportunity to develop a new benchmark for tropical design. By harnessing state of the art technologies, we have parametrically optimised the passive performance of the building and the micro-climate of its surrounds.

The EIP project is a relocation exercise to integrate a range of STEM disciplines into a single building / space to improve interdisciplinary collaboration. The building has been designed as a collaborative hub created through a range of new interdisciplinary Teaching + Learning (T+L) and workshop spaces.

PROGRAM Teaching and Learning spaces, Teaching and Research Laboratories, Workshops, Maker Spaces, Offices and Student Hubs

CLIENT James Cook University

AREA 10,900m² GFA

The EIP building will replace a series of marginalised and functionally obsolescent facilities on the southern periphery of the campus. The form of the building is entirely conceived in response to the site that is situated in an evolving context with climatic conditions that yield a unique architectural response specific to the tropics whilst establishing JCU as a knowledge centre for tropical architecture.







MASTER PLANNING

COMMERCIAL

EDUCATION & PUBLIC

CULTURAL

RESIDENTIAL

TRANSPORT & INFRASTRUCTURE





UNIVERSITY OF QUEENSLAND ADVANCED ENGINEERING BUILDING

BRISBANE, AUSTRALIA

AEB establishes a new benchmark for sustainability and explores new possibilities for teaching and learning spaces in engineering disciplines.

The vision for the project was to create a building to celebrate, collaborate, create, learn, innovate and sustain, all within an integrated engineering landscape.

AEB is designed to stimulate innovation, education and awareness of advanced materials and manufacturing processes. The structure of the building is as open as possible, to allow a high level of visibility of processes and equipment to visitors and staff alike.

AEB is a 5 Star Green Star certified building, achieved through the use of simple systems, including a central atrium to introduce tempered air and light into the building, highly efficient façades, mixed mode ventilation, night purging and excellent daylight levels.

PROGRAM Research facilities, teaching spaces and office accommodation for the School of Civil Engineering and the Queensland Centre for Advanced Materials Processing and Manufacturing (AMPAM)

CLIENT University of Queensland

AREA 20,000m²

AWARDS

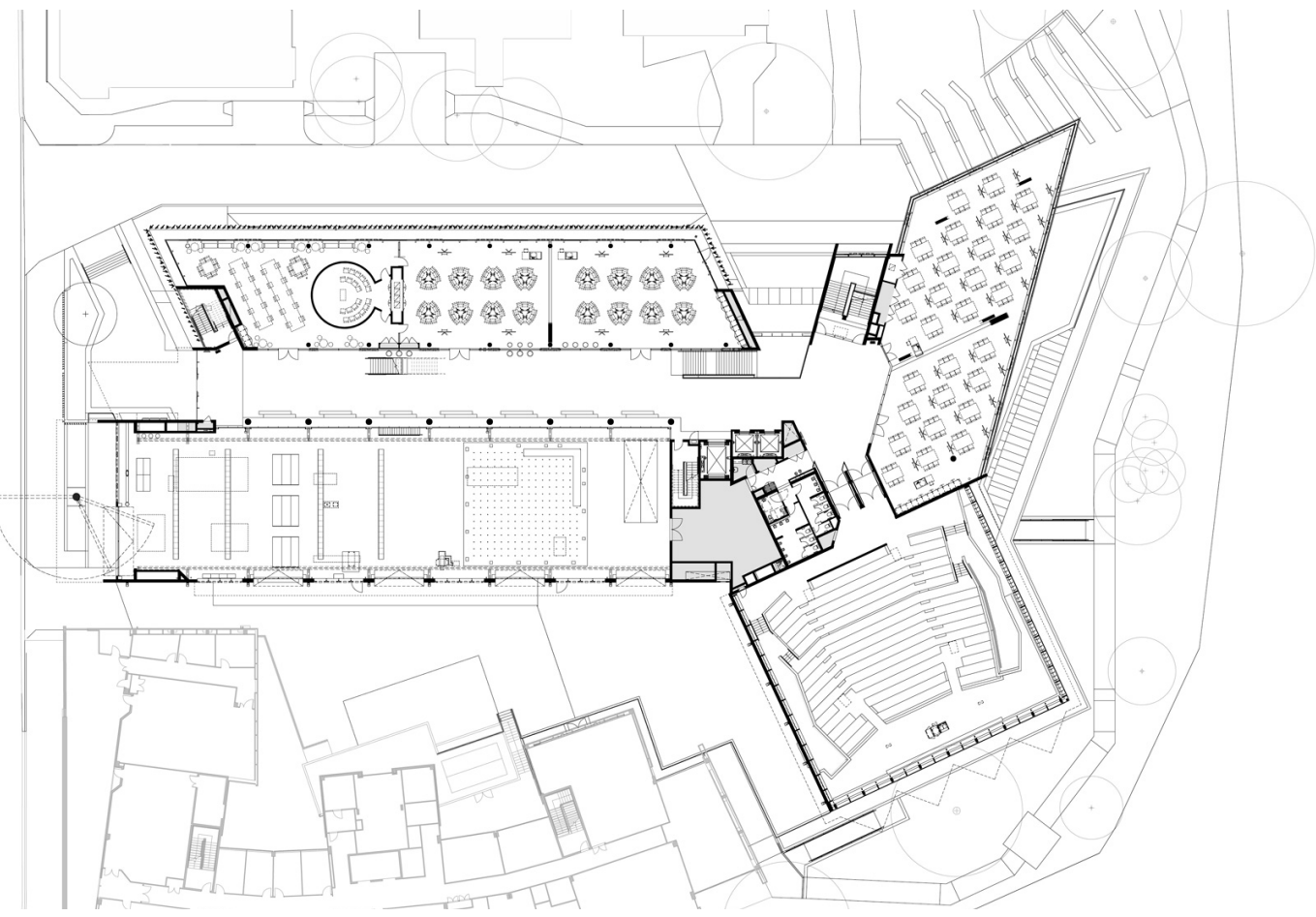
2014 AIA National Sir Zelman Cowen Award, Emil Sodersten Award, National Award for Sustainable Architecture

2014 AIA Qld FDG Stanley Award, GHM Addison Award, Harry Marks Award, John Dalton Award, Regional Commendation

2014 Australian Timber Design Awards for Engineered Timber, and Recycled Timber

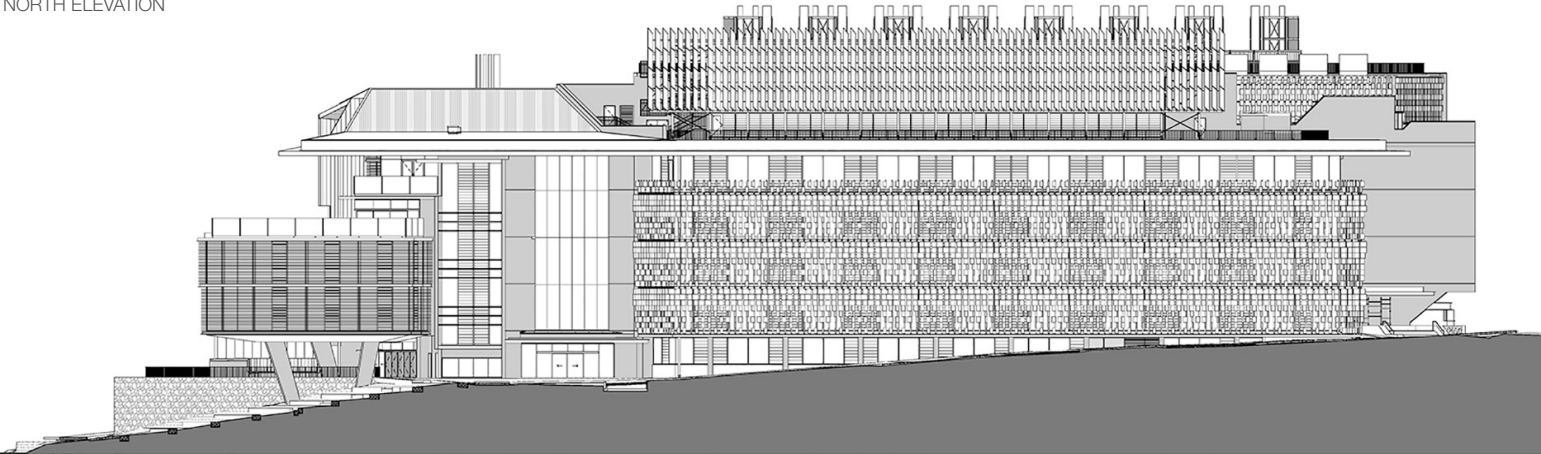
*Project in joint venture with Hassell.





THIRD FLOOR

NORTH ELEVATION



AEB has challenged the traditional concept of the university workplace, with fewer closed cellular spaces and a central atrium that is the heart of the building. AEB has facilitated the transformation of engineering education through all aspects of research, postgraduate training and undergraduate education. The themes drawn from this potential are: a Working Building, a Transparent Building, an Expressive Building, an Interactive Building, a Flexible Building, a Sustainable Building.

AEB is a 5 star Green Star As-built certified building. This has been facilitated through the use of simple systems, including a central atrium to introduce tempered air and light into the building, highly efficient facades, mixed mode ventilations, night purging and excellent daylight levels.

The AEB is a benchmark for innovation in learning, research and collaboration spaces for engineering disciplines. The new facility has generated a world class environment for the School, transforming the possibilities in research and education, and augmenting its reputation on an international stage.

The legacy of the project in terms of sustainability, is to demonstrate the potential for innovation beyond the defined limits of established targets, engage with renewable resources, and to promote under-utilised but inherently sustainable local industry. The benefit of the self-finished materials is also their inherent to be robust and durable over time in order to meet that key requirement of a sustainable building - a long life.

“The AEB is a great testing ground for students who have strong prospects of becoming leaders in the industry and society. They can look to the record of the many high-impact engineering alumni who precede them and have access to a building that doubles as a sustainable engineering tool.”

Professor Peter Høj
Vice Chancellor and President of The University of Queensland



MASTER PLANNING

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NANYANG TECHNOLOGY UNIVERSITY NORTH SPINE ACADEMIC BUILDING SINGAPORE

An open, interactive and connected facility. It establishes a new benchmark for sustainability in the Tropics by implementing a range of innovative strategies that can inspire and engage – it is a transformative building for engineering pedagogy.

The concept responds to the constrained courtyard site by a series of landscape filled internal voids. The voids provide a great sense of space but also improve the building's legibility by communicating its functions as a place for research, learning and workplace. The voids are lined by active spaces where informal meetings and gathering of researchers, students and visitors are encouraged to occur. The form of the voids change from level to level, maximizing daylight for both people and landscape while also promoting ventilation in mixed mode areas.

The introduction of natural light throughout and landscaping within a series of connected, organically-shaped voids is the memorable quality of the building.

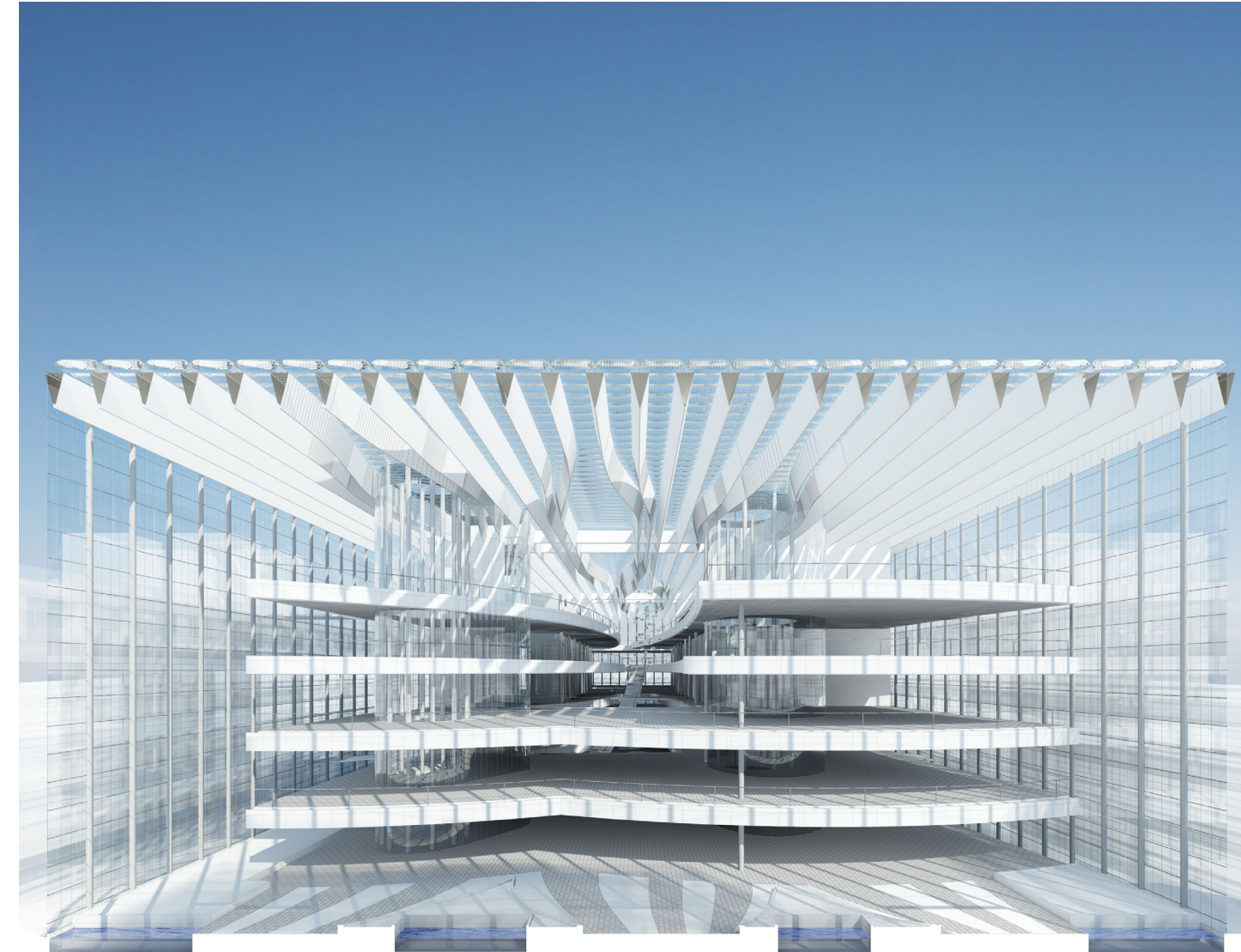
The ambition of the cascading of voids permits long horizontal and vertical views within the building that are dominated by landscape and natural light to overcome the internalized and land-locked site.

PROGRAM Workshops and laboratories for engineering students, offices, breakout spaces and car parks

CLIENT Nanyang Technological University, Singapore

AREA 29,000m²

*Local Architect: DCA Architects Pte Ltd



UNIVERSITY OF TECHNOLOGY SYDNEY BLACKFRIARS PRECINCT RESEARCH BUILDING

SYDNEY, AUSTRALIA

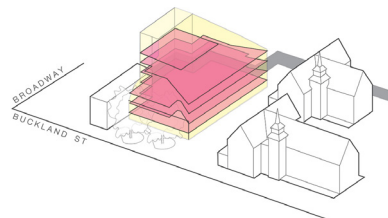
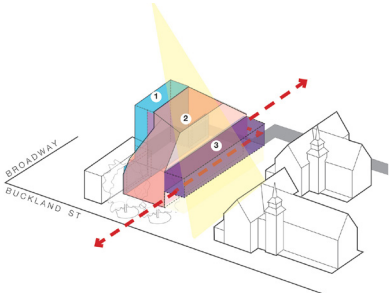
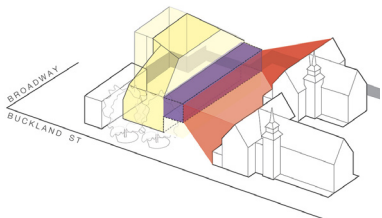
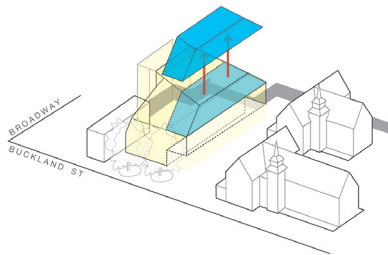
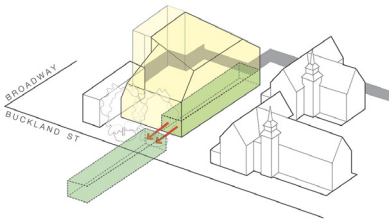
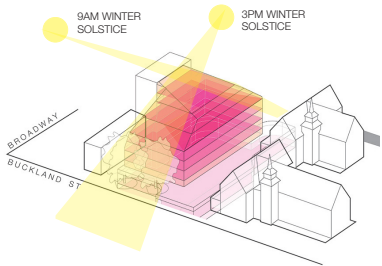
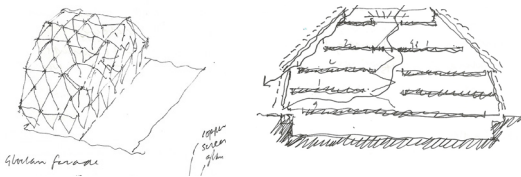
A building that sits within it's landscape as if it's always belonged. Ensuring a prioritised ground plane, sympathetic scale and materials that reflect the surrounding heritage.

The vision for the Black Friars Precinct Research Building (BPRB) was to create a new industry hub that is both innovative and connected to the urban fabric in which it sits. As a leader in the community, this new building could further set UTS apart as a benchmark for connected, progressive and global Universities.

CLIENT University of Technology Sydney, Australia

AREA 5,300m² GFA

The new BPRB posed a challenge to integrate a 21st century building into what is a very cohesive, finely grained and historic educational site. The site is significant as a complete city block of 19th century buildings with a shared palette and fine grain articulated forms. A response was developed to this through a careful reading of the site's scale, form, materiality and spatial qualities.



MASTER PLANNING

COMMERCIAL

EDUCATION & PUBLIC

CULTURAL

RESIDENTIAL

TRANSPORT & INFRASTRUCTURE



NANYANG TECHNOLOGY UNIVERSITY LEARNING HUB (THE ARC)

SINGAPORE

A vibrant campus heart that promotes active social learning - a building that opens and embraces a revitalised landscape setting.

The NTU Learning Hub is defined as a series of 'learning platforms' tuned to setting and place, allowing a multitude of futures in learning patterns, modes and technologies. Its open curves, translucency and permeability create a civic gesture at the campus North Spine, creating cross-campus links to the buildings around.

The design response transcends the cellular planning model and becomes a more effective open learning environment allowing NTU to move away from traditional, passive learning.

PROGRAM Lecture theatres, TEAL facilities, student hub and chill-out zones, food and retail tenancies, workshop space.

CLIENT Nanyang Technology University

AREA 14,500m² GFA

AWARDS

2019 International Award for Educational Architecture

2017 Green Mark Platinum

*Local Architects DCA Architects Pte Ltd





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QUEENSLAND UNIVERSITY OF TECHNOLOGY CREATIVE INDUSTRIES PRECINCT 2

BRISBANE, AUSTRALIA

“The building needs no user manual, and as I suspected, the students will lead the culture in the spaces.”

Greg Jenkins

Head of Studies, School of Media, Entertainment and Creative Arts, QUT Creative Industries Faculty

CIP2 is a world class innovative creative industries facility, with twelve dedicated and inter-disciplinary studios for Dance, Music, Drama and Visual Arts. The building's key function as the new home for the creative disciplines was an opportunity to make a landmark facility for both University and community. The co-location of diverse creative disciplines provided an opportunity for the building to have a rich expression.

PROGRAM Multi-purpose education facility comprising of teaching and learning spaces, office accommodation and specialist studios for the creative arts faculty (music, dance, drama and visual arts)

CLIENT Queensland University of Technology

AREA 12,000m²

AWARDS

2019 Jennifer Taylor Award for Educational Architecture

2019 GHM Addison Award for Interior Architecture

2019 Don Roderick Award for Heritage Architecture

2019 QLD Architecture Commendation for Sustainable Architecture

*Project in joint venture with Hassell.





MASTER PLANNING

COMMERCIAL

EDUCATION & PUBLIC

CULTURAL

RESIDENTIAL

TRANSPORT & INFRASTRUCTURE



UNIVERSITY OF QUEENSLAND BUSINESS SCHOOL
BRISBANE, AUSTRALIA

The new building will occupy a prominent site in the University forecourt and play a critical role in establishing a new identity for the Business School.

The new school will be an open, interactive and connected facility offering business knowledge leadership with global reach. The outward focus of the school will forge a culture of collaboration, effective and a place for sharing and engagement with the business community.

UQBS will be a 5 Star Green Star rated building, with ESD initiatives integral to the design including operable facade systems, mixed-mode ventilation, solar array and rainwater harvesting.

PROGRAM State-of-the-art facility showcasing the UQ Business School, world class teaching and learning environments for students, staff and industry leaders

CLIENT University of Queensland, Australia

AREA 16,400m²

*Project in joint venture with Hassell.





UNIVERSITY OF QUEENSLAND LEARNING INNOVATION BUILDING

BRISBANE, AUSTRALIA

A design that is sensitive to surrounding heritage buildings, pedestrian links and campus activity; resulting in a complex external form and transparent facades to display internal activities to the wider campus.

The site is located in a prominent precinct with the University of Queensland's St Lucia campus and is situated between existing heritage listed university buildings as part of the Great Court Complex.

The design process intentionally maintains and improves 'hidden' or secondary pedestrian links to surrounding spaces and buildings. Public courtyard space adds to an existing sequence of external spaces within the campus, including the Great Court.

A three-storey high void space links the horizontal floor plates vertically, improving the internal environment and contributing to the overall efficiency of the building.

PROGRAM Office space dedicated to the innovation of teaching and learning; audio-visual integrated landscape courtyards, and flexible seminar spaces.

CLIENT University of Queensland

AREA 2,250m²

AWARDS

2016 RIAA State Award for Educational Architecture & Sustainable Architecture



JAMES COOK UNIVERSITY CAIRNS CAMPUS MASTER PLAN

CAIRNS, AUSTRALIA

The JCU Cairns Campus Master Plan 2019 establishes a decision-making tool for the campus evolution and was developed through careful site analysis by a multidisciplinary team, comprehensive stakeholder and user engagement, and the use of advanced urban climate analysis to address the unique environmental challenges of the wet tropics.

The project utilised strategies that enhance and activate campus life, improve the learning and research envions, integrate academic with residential life and facilitate safe and more efficient mobility for the university community.

A key focus of the Master Plan aimed to enhance the thermal comfort of the urban environment through advanced urban climate analysis using Computational Fluid Dynamics for current conditions, as well as future climatic conditions.

Air movement across the campus was modelled to highlight problem areas where buildings obstruct airflow thereby increasing the urban heat island effect and thermal stress. KIRK developed urban design strategies to encourage air movement and minimise the urban heat island effect to optimise campus comfort levels.

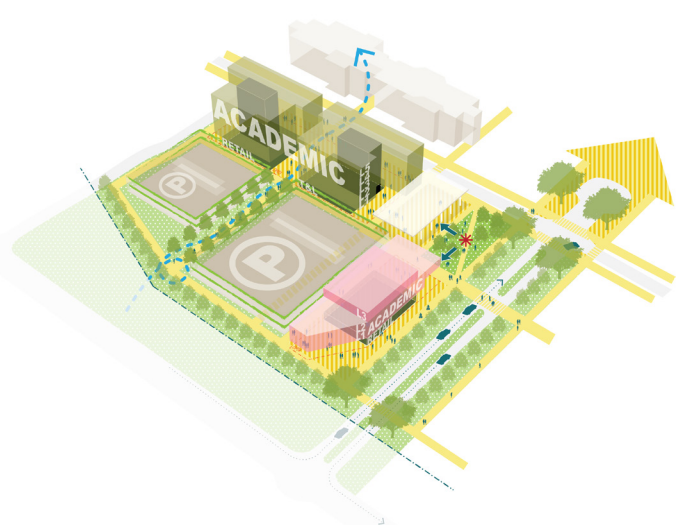
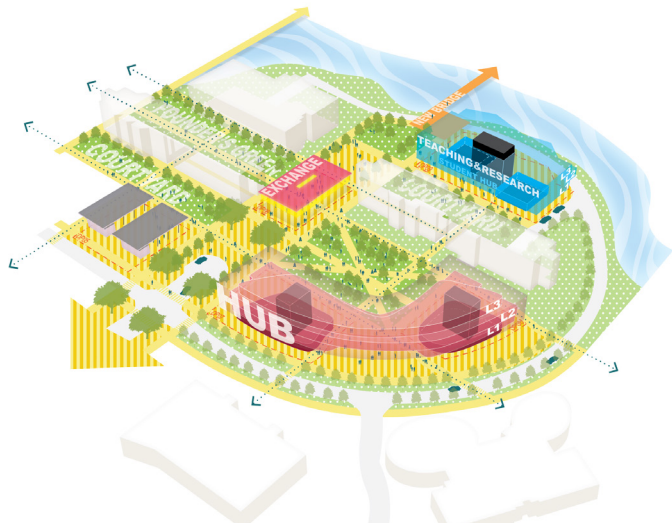
The Master Plan identified key transformative projects at varying scales and priorities to provide the University with implementation flexibility as future needs change.

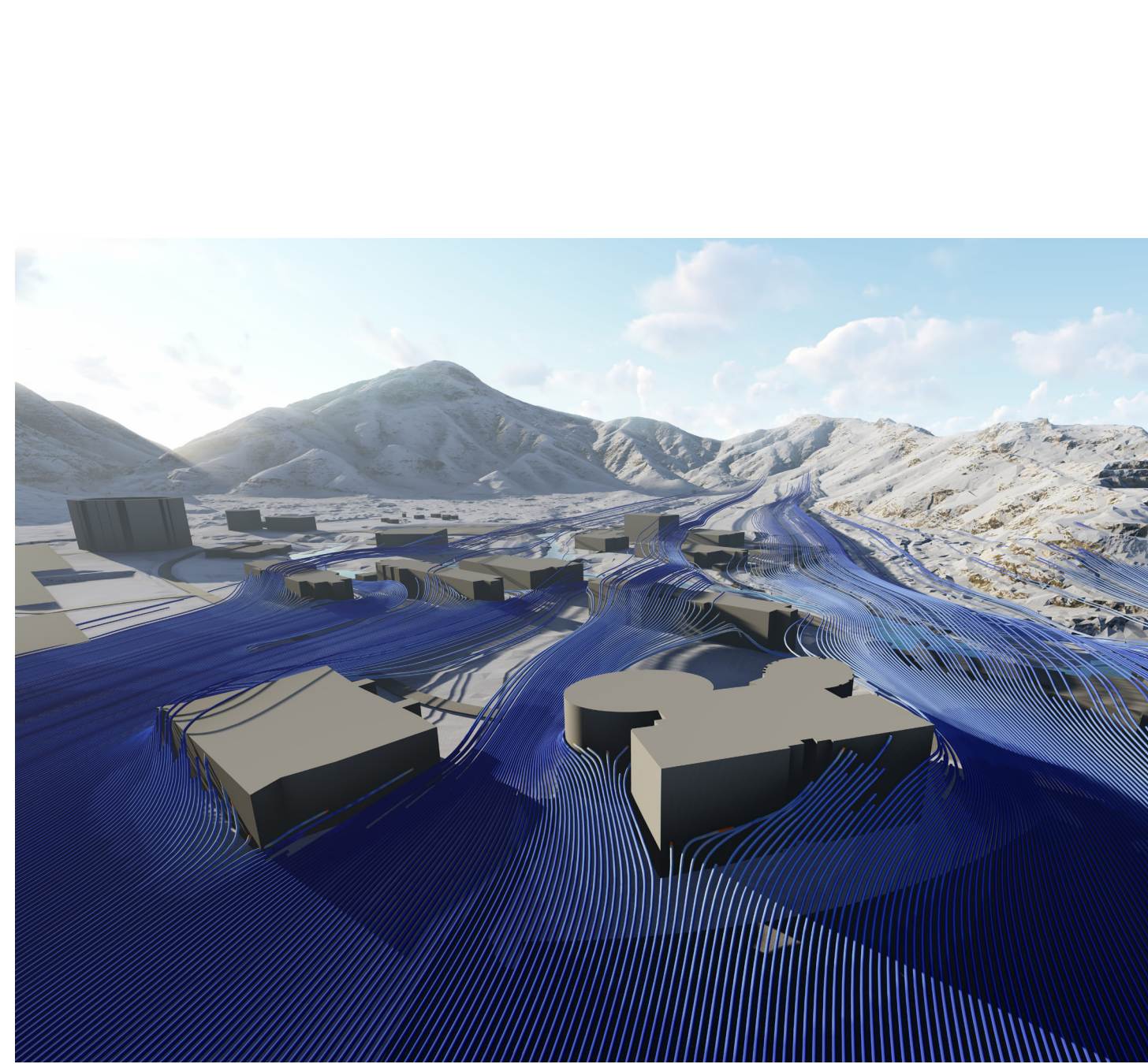
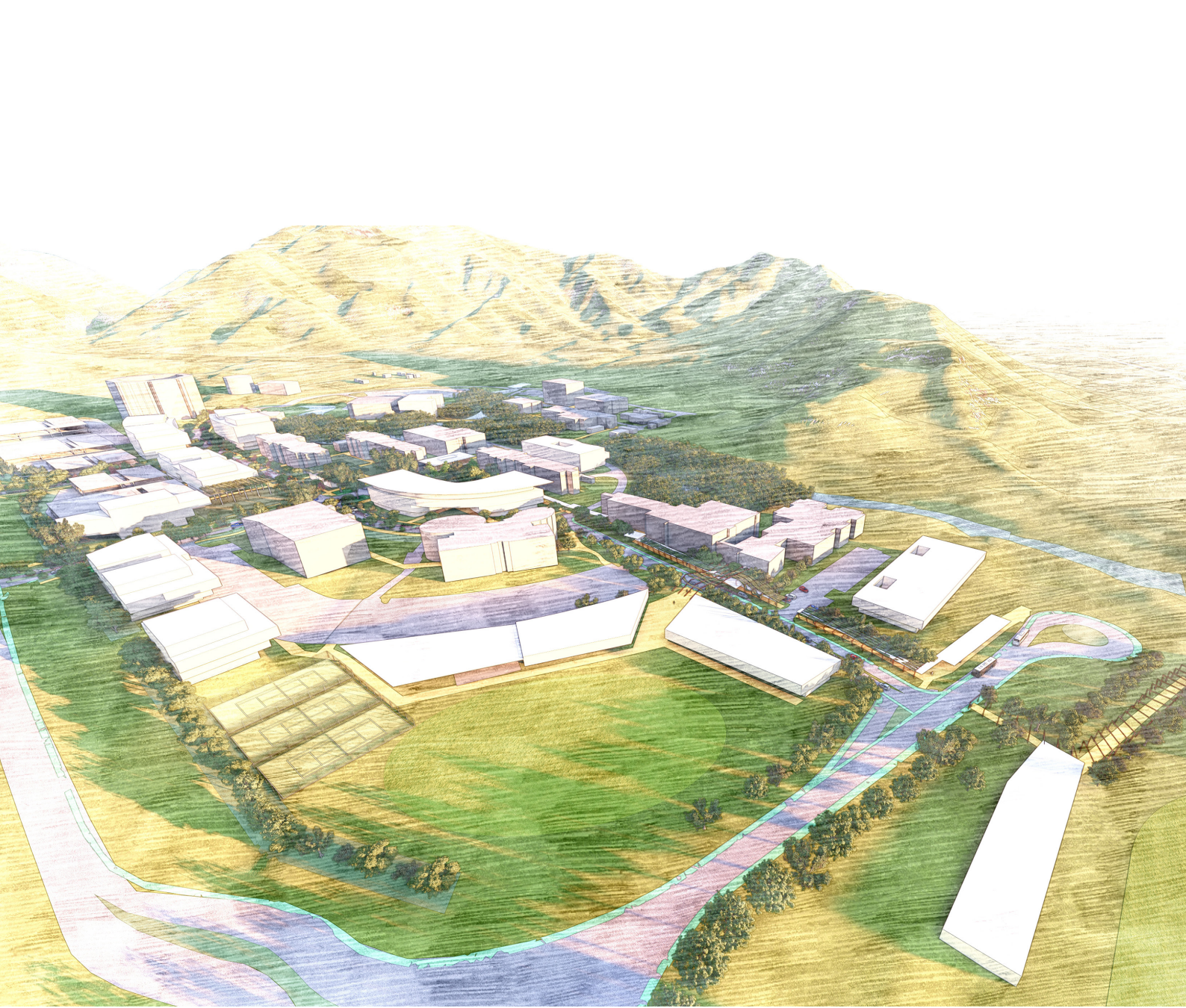
Sustainability is addressed with strategies that include working landscapes with integrated storm water management benefits, transportation demand management strategies that promote alternate forms of transportation and promotes LEED platinum achievement for new developments.

The JCU Cairns Campus Master Plan is a culmination of environmental performance and pedagogical intentions, creating a holistic campus for the future.

PROGRAM Campus Master Plan of Academic, Research, Student Accommodation, Industry, Community, Commercial and Retail spaces.

CLIENT James Cook University







UNIVERSITY OF THE SUNSHINE COAST MORETON BAY CAMPUS MASTER PLAN

PETRIE, AUSTRALIA

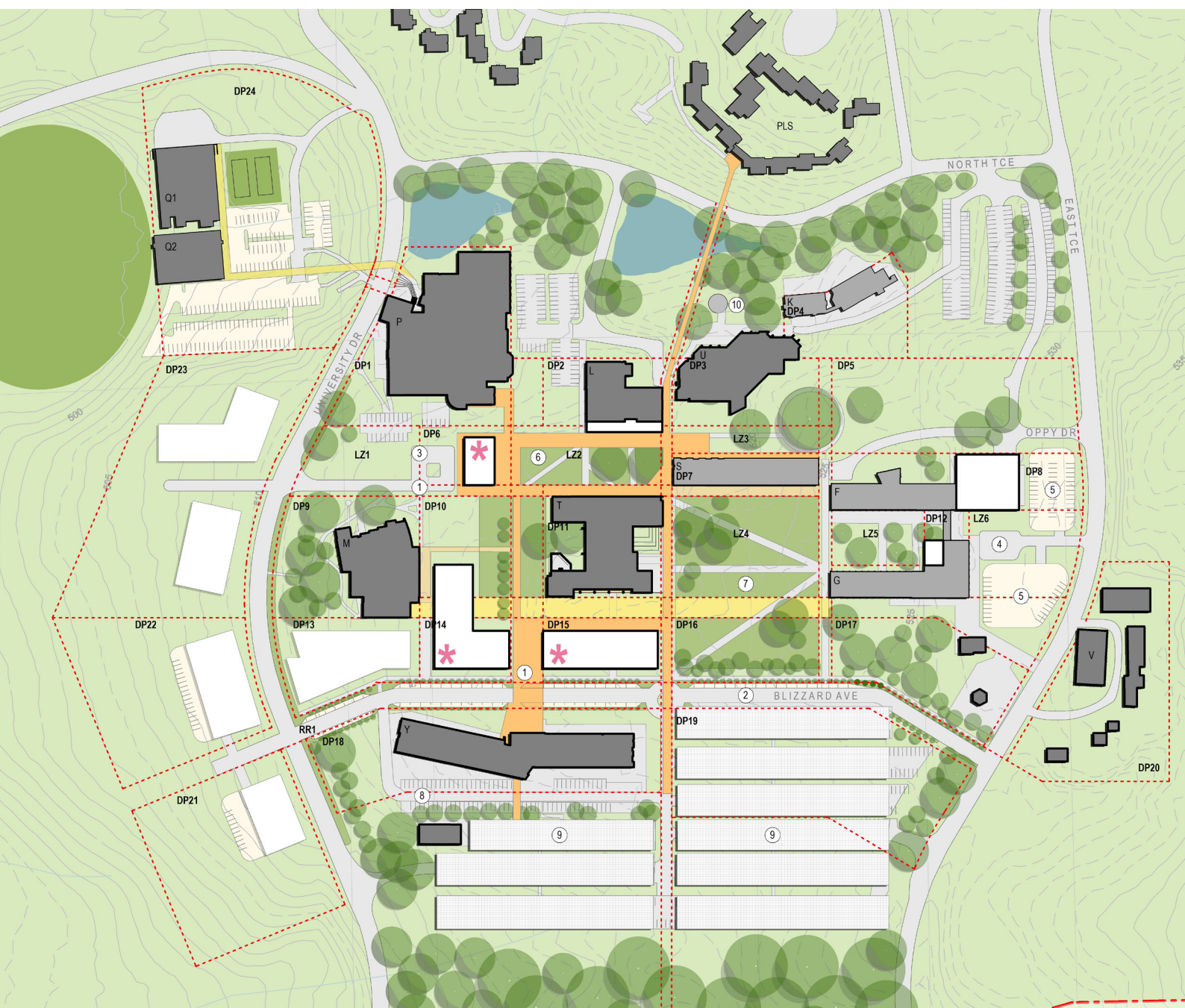
The USC Moreton Bay Campus Master Plan 2022 has been developed through careful site analysis and advanced urban climate analyses to address the unique environmental challenges of the wet tropics.

The Master Plan includes a series of courtyards and built forms placed at road interfaces to define an urban grid - allowing for appropriate scaling of buildings and the clear demarcation of public and private (university). Open spaces are treated as both viewing and experiential spaces.

PROGRAM Campus Master Plan

CLIENT University of Sunshine Coast





FEDERATION UNIVERSITY MASTER PLAN

REGIONAL VICTORIA, AUSTRALIA

KIRK were awarded the Federation University Master Plan project to assist the University to reset and renew their aging infrastructure for the post pandemic campus.

The project scope involves space analytics and master planning across all Federation University Victorian campuses.

Transforming the campus experience means transforming and aligning the University's geographically dispersed campus environments, some over 100 years old, to meet the current and future needs of students, staff, industry, partners, and regional communities.

Each campus location is rich with unique opportunities to integrate landscape, cultural identity, community, township/city surrounds, and local business.

A vital component of this project involved developing a strategy for the University's legacy real estate assets - ageing structures built for traditional learning models and unfit for contemporary sustainability standards.

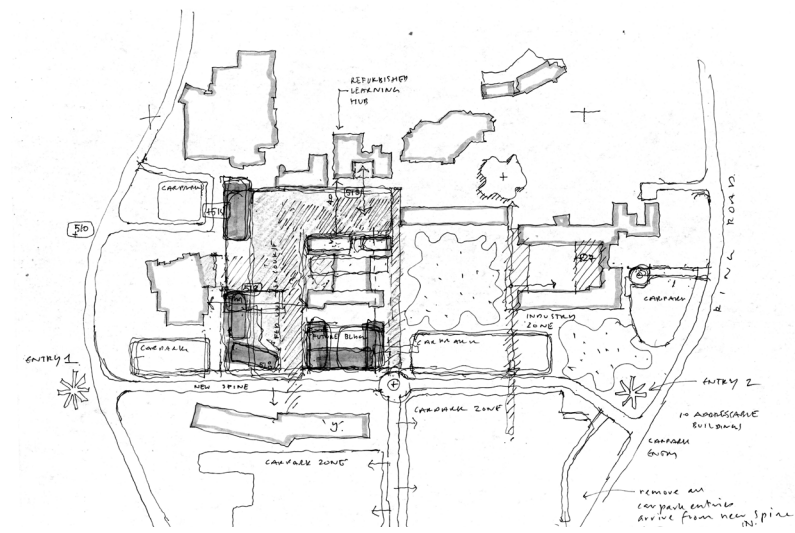
To address these assets, we conducted detailed space planning and assessment in parallel with master planning.

Through KIRK's agile methodology, deep technical understanding of master planning and 21st century higher education architectural design, and state-of-the-art digital modelling, we were able to rapidly generate an intelligent planning solution in just over 6 months.

Federation University is becoming a university within the town, and a town within the university - supporting regional towns and providing opportunities for active campuses and industry engagement.

PROGRAM Campus Master Plan across Victorian campuses; Advanced Buildings and Cities environmental analysis; Space analytics

CLIENT Federation University





TAYLOR'S UNIVERSITY LAKE SIDE CAMPUS MASTERPLAN AND STAGE 1

KUALA LUMPUR, MALAYSIA

The Taylor's University Lake side Campus Master plan project looked to redefine the strategic planning for the future of the campus to enhance campus identity and amenity for all users. The project involved a vision and brief refinement process where construction efficiencies, campus safety and way finding, and campus sustainability were considered.

The project proposes a multi-layered, student-centred campus that integrates and engages with the campus heart - the lake. The project allowed for a sports and recreation and student housing zone amongst academic and commercial zones within the campus.

KIRK's vision for TULC is to create a building centered around the pedagogy of the 21st century; integrating collaborative learning, a strong sense of community, new knowledge and innovation.

PROGRAM Campus public realm completion, new Academic Buildings, student support facilities and sporting centre

CLIENT Taylor's Education Group





GARDEN INTERNATIONAL SCHOOL PERFORMING ARTS CENTRE

KUALA LUMPUR, MALAYSIA

The PAC is transformative in the re-imagining of the Garden International School. The new 'heart' to the school will elevate learning and enhance school community experience with it's technically advanced, memorable and user friendly spaces.

KIRK were engaged by the Garden International School (GIS) to design a new performing arts complex as part of a larger masterplan to support the future growth of the school. The project looked to develop a new model for performance spaces with embedded flexibility to facilitate orchestral and theatrical performance.

PROGRAM Campus Redevelopment Master plan, Performing Arts Centre

CLIENT TEG Assets Sdn. Bhd. (Garden International School)

AREA 6,500m² GFA







GARDEN INTERNATIONAL SCHOOL SPORTS COMPLEX

KUALA LUMPUR, MALAYSIA

The program for the new sports complex for the Garden International School (GIS) includes an Indoor Sports Hall and spectator seating, roof top 50m competition swimming pool and spectator seating, basement carpark covered by outdoor sporting field, new school arrival, school offices, gymnasium and other ancillary facilities.

A large indoor sports hall that caters for basketball and a range of other sports is then roofed with a 50 metre competition swimming pool. This presented technical challenges requiring innovative structural and building systems solutions. Ancillary facilities are stacked to the side to provide both physical and visual connection.

PROGRAM Campus Redevelopment Master plan, Sports Complex

CLIENT TEG Assets Sdn. Bhd. (Garden International School)

AREA 17,000m² GFA

STATUS Under Construction





DE LA SALLE UNIVERSITY LAGUNA CAMPUS BUILDINGS

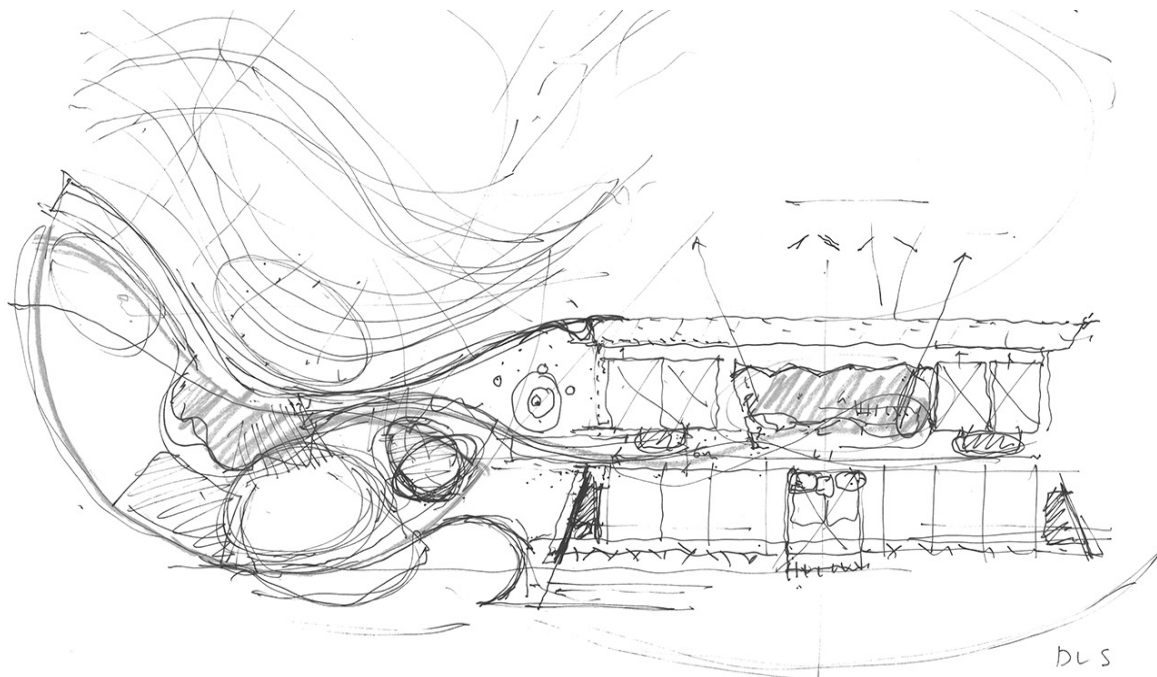
LAGUNA, PHILIPPINES

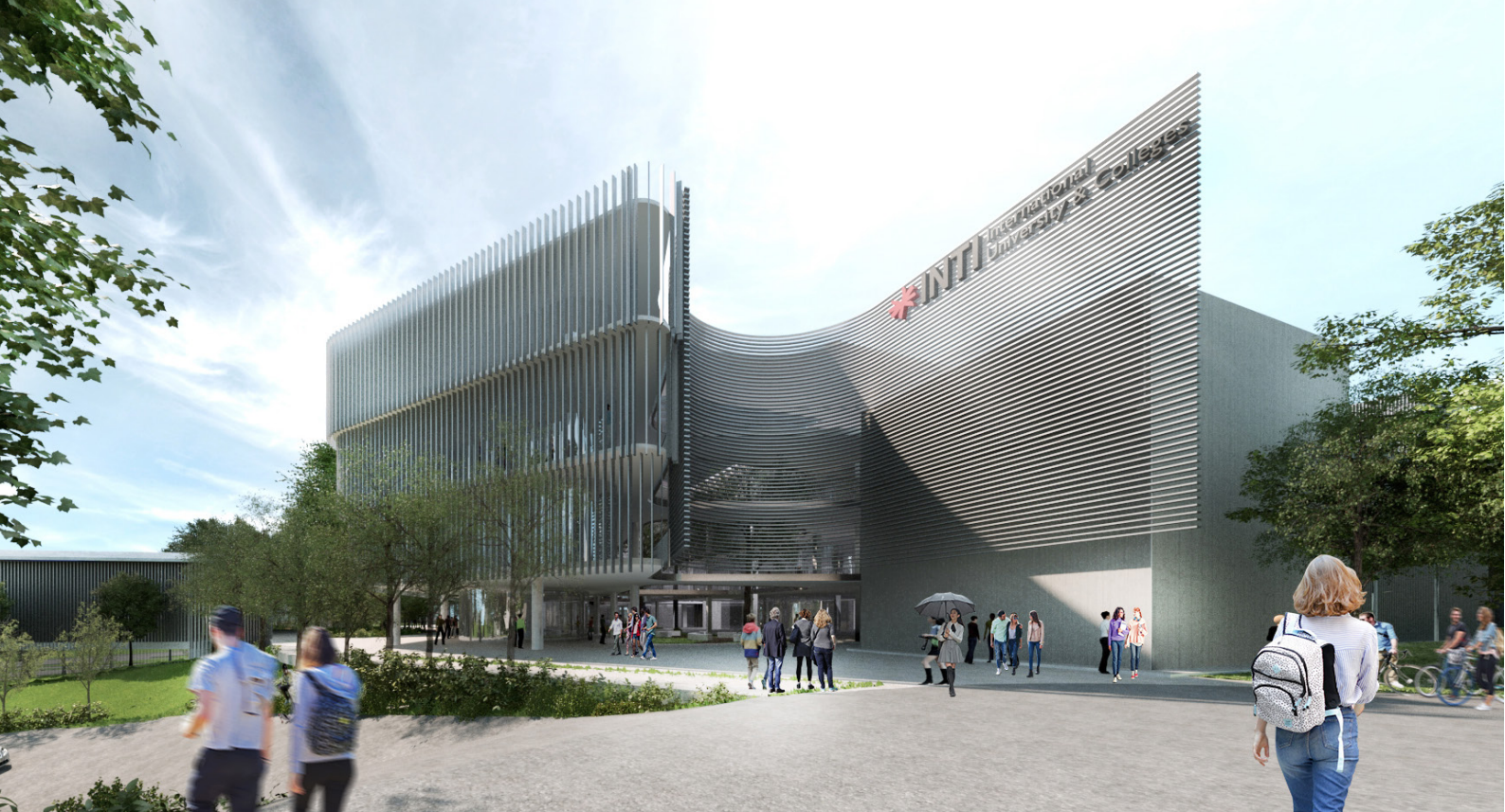
De La Salle University is one of the largest educational institutions in the Philippines. The Laguna Campus is one of the newest additions to the portfolio. The project comprises two significant academic buildings and a masterplan refresh. The buildings are the foundation buildings within the central landscape concourse in the heart of the campus.

- PROGRAM** Research, teaching and learning, library, auditorium,
- CLIENT** De La Salle University
- AREA** 14,000m² GFA
- STATUS** Under Construction

*Project in joint venture with The Sage Group.

A new benchmark for tropical design grounded in cutting edge performative analysis.





INTI UNIVERSITY NILAI

NILAI, MALAYSIA

The vision for the INTI University Nilai Campus Concept Master Plan 2019 is to enhance the student experience on campus through consolidating and densifying the campus core to create an active campus heart.

The key principles that guide the Nilai Campus Master Plan 2019 are aimed at creating a campus environment with a sense of belonging for its students, staff, industry players and community members. INTI International University Nilai will be a place that all campus users wish to celebrate and actively engage with.

The Master plan establishes a framework for present and future development of IU campus with a perspective of 10 years until 2029 whilst supporting the academic mission and strategic vision of the University outlined in the Academic Priorities 2019 and University Strategic Plan 2019.

PROGRAM Campus Redevelopment Master plan and catalyst project concept design

CLIENT INTI International Education Sdn. Bhd.

STATUS Master planning and concept design



MASTER PLANNING

COMMERCIAL

EDUCATION & PUBLIC

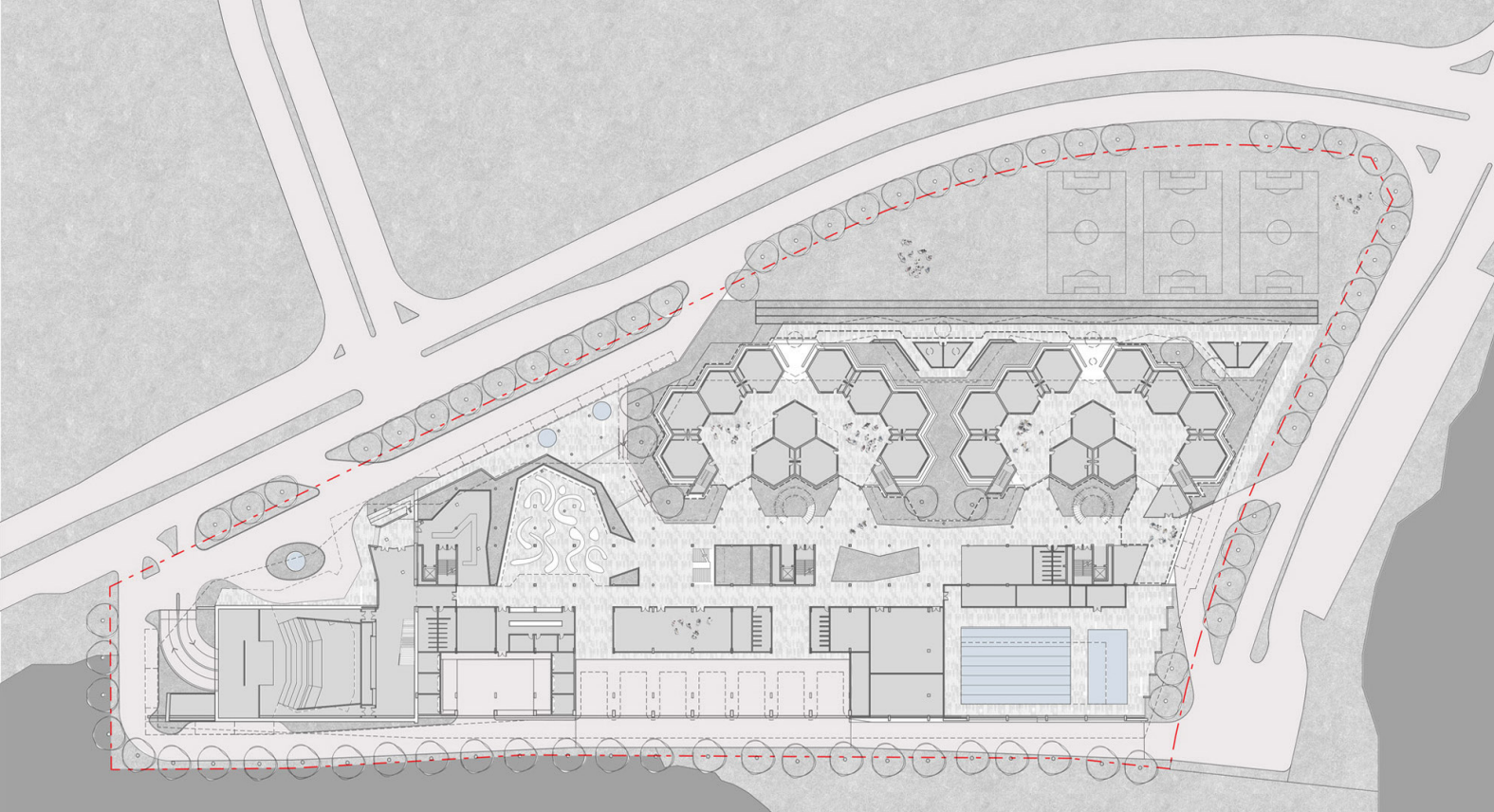
CULTURAL

RESIDENTIAL

TRANSPORT & INFRASTRUCTURE

INTERNATIONAL SCHOOL PARK CITY
DESA PARK CITY, MALAYSIA





The concept responds to the constrained site geometry as a series of blocks separated by a linear landscaped court that organise circulation and activate comfortable outdoor spaces for a range of functions.

KIRK was commissioned by Perdana ParkCity Sdn Bhd to design a new facility to cater for a full K12 school programme, including an auditorium and indoor and outdoor sporting facilities for 1800 students.

Learning spaces were conceptualised and developed during an extensive collaborative and consultative process with client stakeholder groups and teaching staff. Early workshop sessions envisioned the new school as an opportunity to explore evolving ideas of pedagogy in childhood and teenage learning and establish new standards for educational facilities in Malaysia

The hexagonal teaching spaces are organised in year group clusters around central breakout spaces for informal teaching and student interaction. The organisation subtly responds to the need for delineation between different age groups within the school and between students and general public whilst

maintaining an overall inclusiveness within the school community.

The client also emphasized the schools place within the broader community where cultural and sporting facilities are to also serve as an asset to the broader township community.

PROGRAM Campus Redevelopment Master plan and catalyst project concept design

CLIENT INTI International Education Sdn. Bhd.

STATUS Master planning and concept design





ANTING SCHOOL

SHANGHAI, CHINA

The Anting School forms a major urban landmark and presents a significant opportunity to strengthen the town as a community.

The school is the heart of the public life of Anting and its success as a place for learning will directly contribute to the success of Anting as a community.

The school's planning structure appropriates planning ideas from traditional Chinese cities, with gateway building providing central secure access, secured perimeter and courtyard spaces located along a central movement axis.

Sited with the less dense outer portion of the town and flanked by green 'fingers', the school site will integrate into its landscaped surrounds whilst still providing essential security and structure for students, teachers, staff and the community.

The layout of the school encourages social interaction, forges

enduring relationships, stimulates the incidental exchange of ideas and fosters a high degree of teaching excellence.

PROGRAM Middle and Senior School, learning facilities, dormitories, sporting facilities, administration buildings and dining hall

AREA 34,000m²

STATUS Winning Competition Entry





MASTER PLANNING

COMMERCIAL

EDUCATION & PUBLIC

CULTURAL

RESIDENTIAL

TRANSPORT & INFRASTRUCTURE



THE MINISTRY OF EDUCATION BUILDING SINGAPORE

The Ministry of Education Building, the Goh Keng Swee Centre (GKSC) for Education at One North endeavours to create and connect communities, set a new benchmark in sustainable design and engage and enhance the urban principles of One North.

As a facility that accommodates people dedicated to the advancement of education, we embrace the idea of the new GKSC being a learning tool that generates sustainable buildings that are legible, welcoming, and healthy.

The GKSC provides a unique opportunity to demonstrate how complex multi-use buildings can reduce their carbon footprint which in turn can be deployed across other buildings from either the private or public sector.

PROGRAM Workspaces, Student Accommodation, Public Facilities, Theatrette, Function and Retail Spaces

CLIENT Nanyang Technological University, Singapore

*Local Architects DCA Architects Pte Ltd + Clare Design





The legibility of a building and its movement pattern is key to the building's expression and in turn its identity.



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October 2023

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ADVANCED ENGINEERING BUILDING, UNIVERSITY OF QUEENSLAND