

Profile

ohr

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ohr was founded on principles of creativity and collaboration in engineering, at a time where we felt the Malaysian built environment could benefit from it.

We believe that engineering can and should be creative. Amazing feats of engineering throughout history were borne out of creativity, by people who stepped up to challenge the norm.

Creativity should not be reserved for special undertakings. Rather, the simplest and most mundane task, through to the most complex will all benefit from a touch of it. Creativity is the essence of efficiency and excellence.

We believe that collaborative effort in all we do and by all who are involved is fundamental to an amazing outcome.

With collaboration comes trust, commitment, integrity, open communication, transparency, mutual respect and inclusiveness. At ohr, equality comes into the equation too, as we believe all people are created equal.

Everything we do is underpinned by this creative and collaborative approach, and is reflected in the solutions that we provide.

Now, when creativity and collaboration are embedded in everything we do, fun inevitably ensues. And why can't and shouldn't work be fun? Again, let's challenge and change the norm in our country.

This is why at ohr we say, let's

engineer it differently

But we look forward to the day when this way of doing engineering in Malaysia is no longer an exception but rather, the norm

We have worked with FRP, timber, masonry, to name a few non-conventional structural materials. And we have worked with plenty of conventional ones too

We are one of the few consultancies in Malaysia who are able to undertake timber engineering

Our understanding of design, materials and construction allows us to undertake design of new structures as well as meeting the challenges of working with existing ones

Services we provide

Building structures

Civil, geotechnical and structural engineering

Independent design review

Value engineering

Design support for specialist contractors

Forensic and remedial engineering

Assessment and design for change of use and refurbishment

Structural and geotechnical condition audit

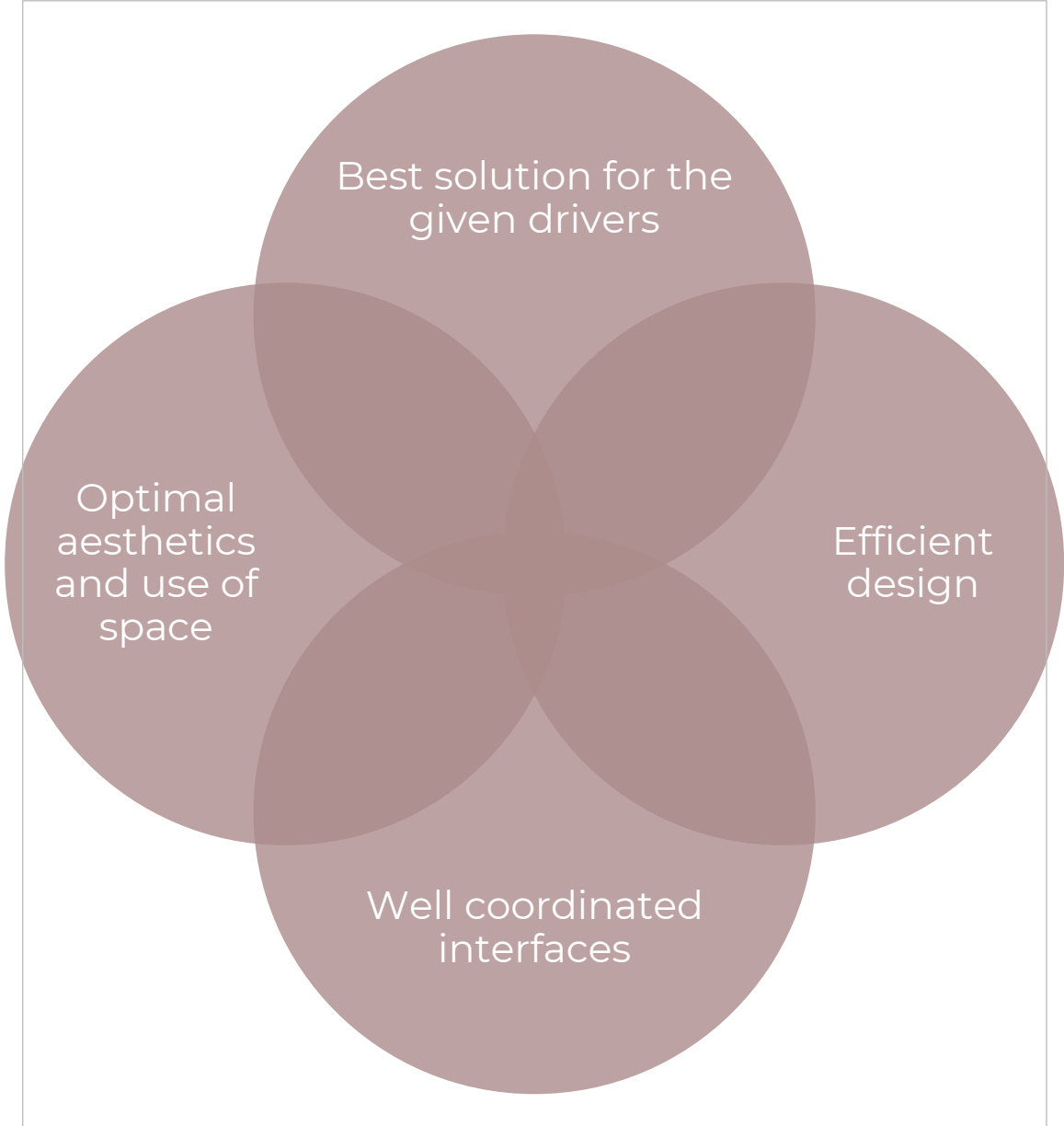
Building conservation

Defects investigation

Failure investigation

Remedial design

Outcomes of good structural engineering



Intellect + Care



We believe that engineering done right, that is with intellect and care, will yield the following outcomes: best solution for the given drivers, efficient design, well coordinated interfaces and; optimal aesthetics and use of space.

With
Intellect
+
Care

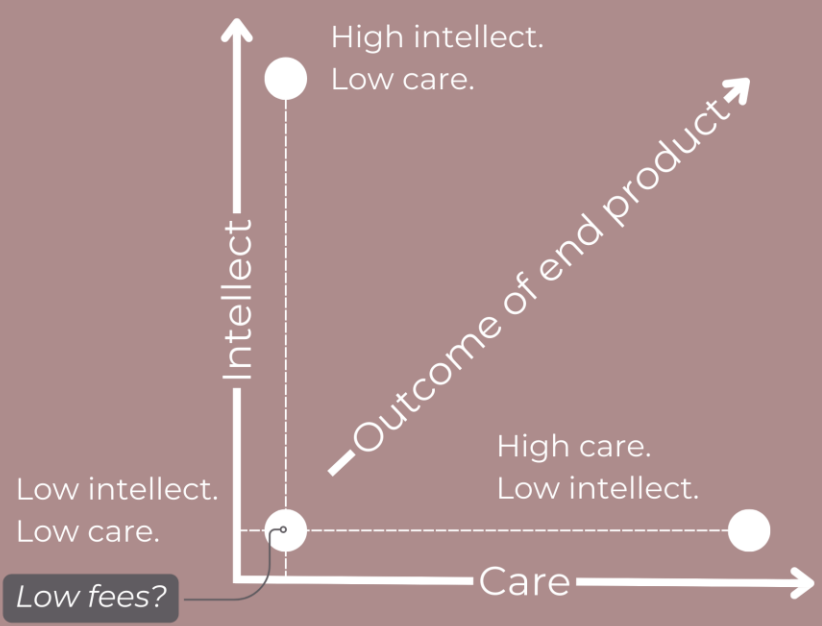
RM100 million
total construction cost

RM30 million
typical structural cost
*30% of the total
construction cost*

5% savings
in material through
good structural
engineering

amounts to
**RM1.5
million
savings**

An illustration of the potential savings that can be achieved from material efficiency through design, compared to the typical industry standard, when intellect and care are applied



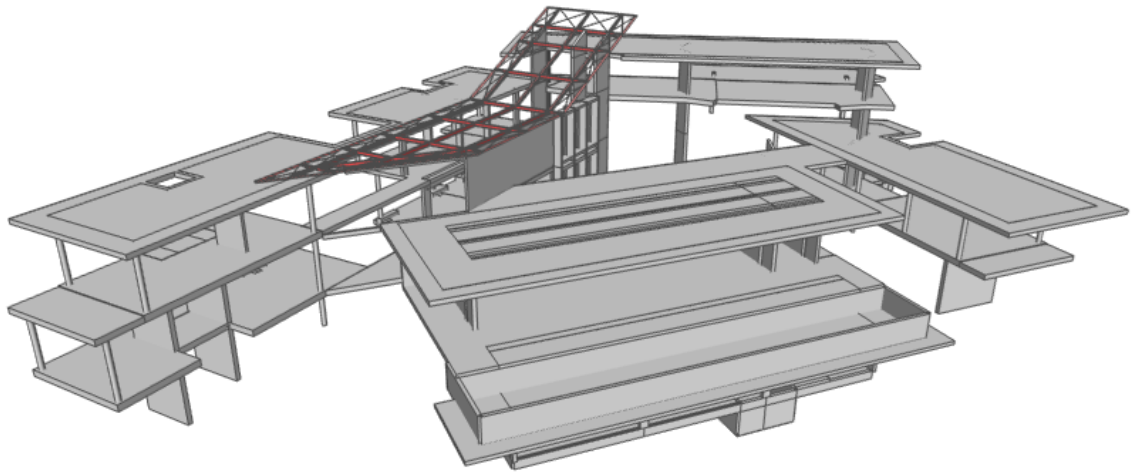
Intellect + Care graph
© Ohr Engineering 2017

Projects portfolio

Here are some of our
projects demonstrating how we
apply intellect and care to
bring about the best possible outcomes

Artist's impressions courtesy of the respective project architects unless noted otherwise

Residential



This intricately detailed reinforced concrete private residence is spread over a Grade III and IV hillslope, with each block lightly perching on the hill and cantilevering out by approximately 5.5m. Work includes remediation of a portion of the slope that failed whilst design was in progress. Soil nail walls are used as the retaining solution, which also doubles up as measures to strengthen the slope

Project **Private Residence X** Location **Kuala Lumpur**
Client **Private Owner** Architect **Design Unit Architect**
Services **Civil, geotechnical and structural**
Size/ Cost **Approx. 27,000 ft²**
Status **Construction** Year **2021 to date**



The impact of the neighbouring boundary conditions on the retaining solutions and earthworks drove the levels and positioning of this reinforced concrete structure. The structural elements were positioned to suit and complement the architecture, with parts of the structure having fair-faced concrete

Project **Private Residence X** Location **Kuala Lumpur**
Client **Private Owner** Architect **MJ Kanny Architect**
Services **Civil, geotechnical and structural**
Size/ Cost **Approx. 11,000 ft²**
Status **Tender Year 2021 to date**



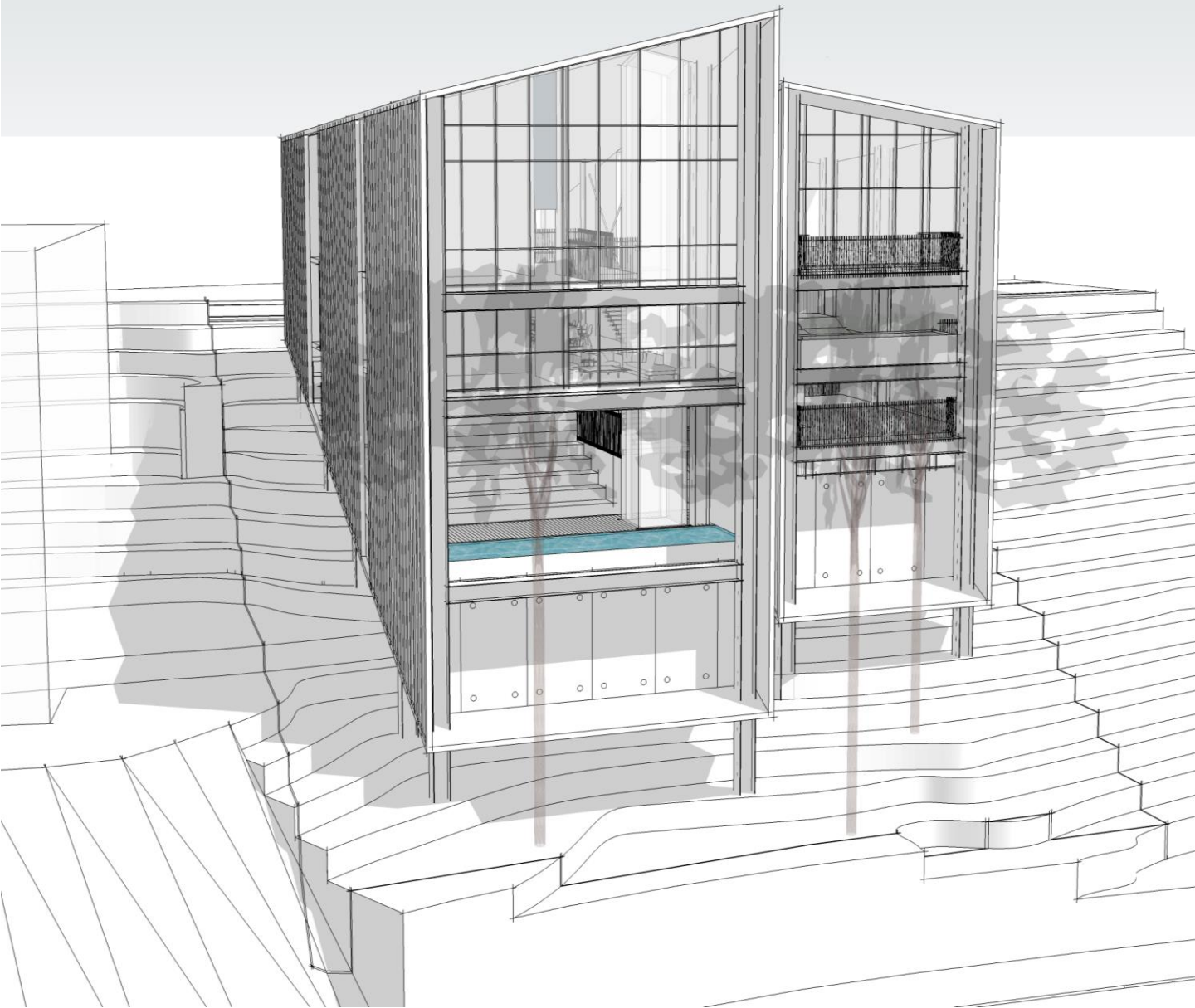
This private residence is elevated over a hillslope with almost half of its area being Grade III and IV slopes. The structure is of reinforced flat slab with a mixture of columns and structural walls to suit the architecture. The feature folded roofs are designed in steel with box-sections used and purlins kept within the structural depth to allow a slim buildup

Project **Private Residence X** Location **Kuala Lumpur**
Client **Private Owner** Architect **Formzero**
Services **Civil, geotechnical and structural**
Size/ Cost **Approx. 17,000 ft²**
Status **Tender** Year **2021 to date**



The new ground levels and building position were catered to allow open-cut retaining wall construction and minimise earthworks to keep substructure and earthworks costs minimal. Superstructure-wise, the challenge was to limit visible columns and hide vertical structural elements within the architectural walls whilst enabling the feature roof and significant cantilevers

Project **Private Residence X** Location **Kuala Lumpur**
Client **Private Owner** Architect **Seshan Design**
Services **Civil, geotechnical and structural**
Size/ Cost **Approx. 11,000 ft²**
Status **Design** Year **2021 to date**



This house is located on stilts on a hillslope with its structural steel frame and metal deck slab soffit fully exposed and expressed. The pool level floor is of reinforced concrete supported on the steel frame to seamlessly accommodate the pool and form a clean silhouette of the various steps and inclinations of this level

Project **Damansara Country Height House** Location **Selangor**
Client **Private Owner** Architect **LS Design**
Services **Civil, geotechnical and structural**
Size/ Cost **Approx. 13,000 ft²**
Status **Design** Year **2019 to date**



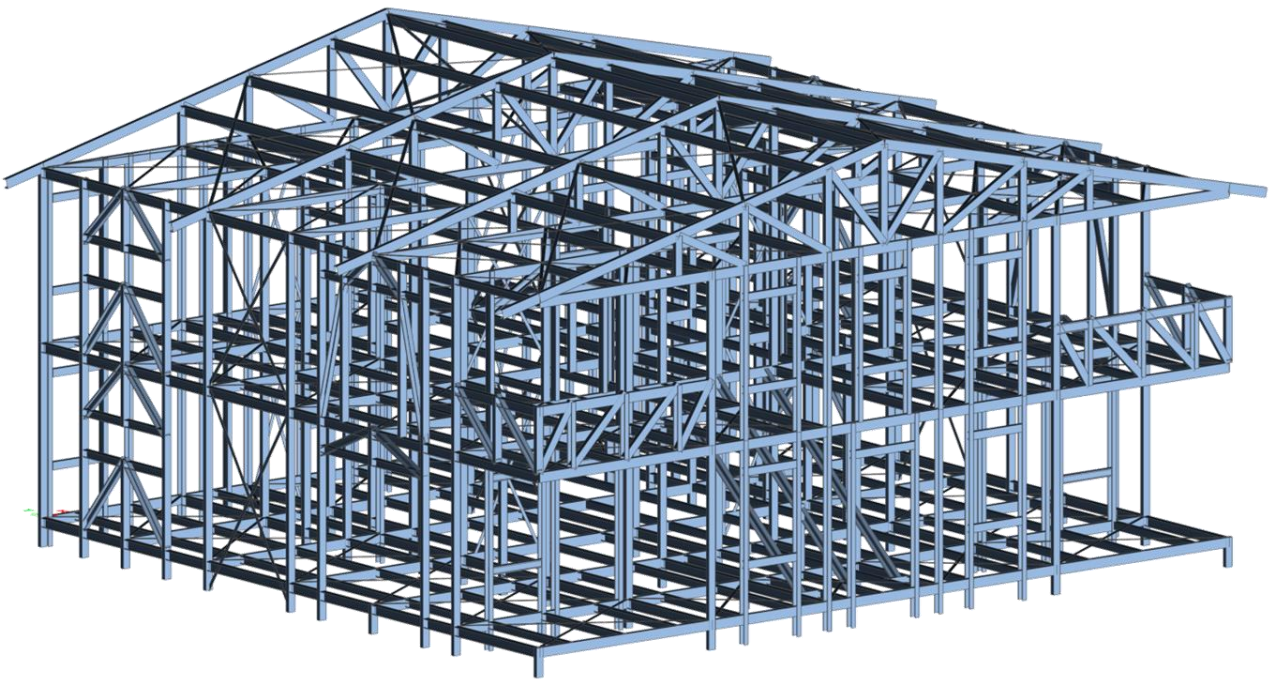
This 3-storey split level residence has stepped building lines, causing most of the walls to be unaligned between floors and as a result, making vertical load transfer a real challenge. To address this, the structure is of reinforced concrete flat slab with fin columns designed as a 3D system where the structure at each floor level is interdependent on the structure of the floor above and below, with some elements hung, some transferred and some cantilevered, with up to 6m long cantilevers

Project **Q House** Location **Petaling Jaya**
Client **Private owner** Architect **Hijjas Kasturi**
Services **Civil, geotechnical and structural**
Size/ Cost **Approx. 12,000 ft²**
Status **Design** Year **2017 to date**



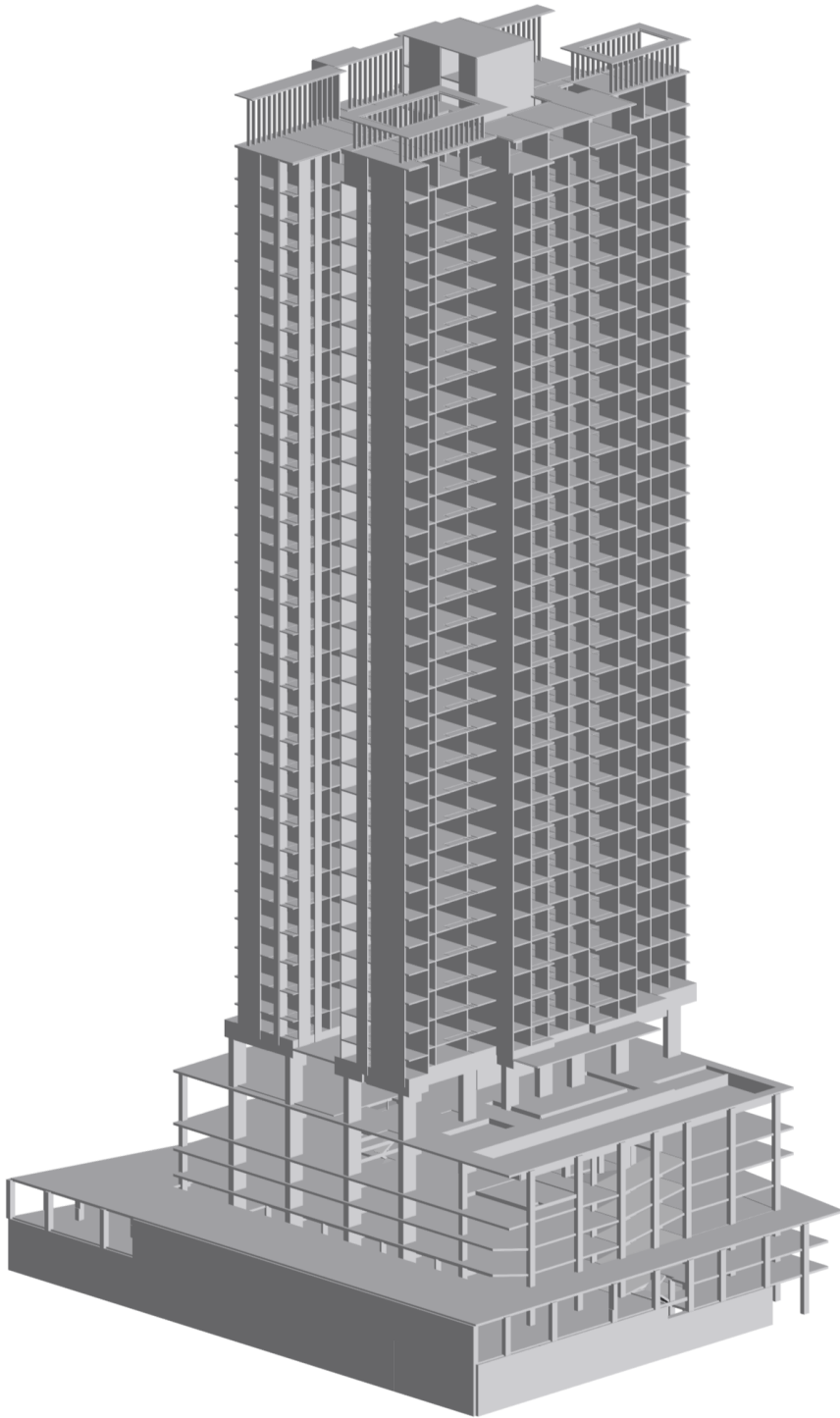
This split-level residence perched on a hillside is kept free of any visible vertical structural elements to meet the Client's brief. This together with varying building lines formed by the stacked boxes approach in the architecture resulted in a structure designed as a 3D system where the structure at each floor level is interdependent on the structure of the floor above and below, with some elements hung, some transferred and some cantilevered

Project **Tijani House** Location **Bukit Tunku, Kuala Lumpur**
Client **Private owner** Architect **CMC Designworks**
Services **Civil, geotechnical and structural. Inception to completion of substructure**
Size/ Cost **Approx. 20,000 ft²**
Status **Scope completed** Year **2019 to 2022**



Development of proprietary design solution for a lightweight steel modular low-rise twin residential structure that can flat packed into a shipping container and assembled on site with minimal work

Project **Confidential** Client **Confidential**
Service **Design support for specialist contractors: Structural. Inception to construction**
documentation
Status **Scope completed** Year **2020**



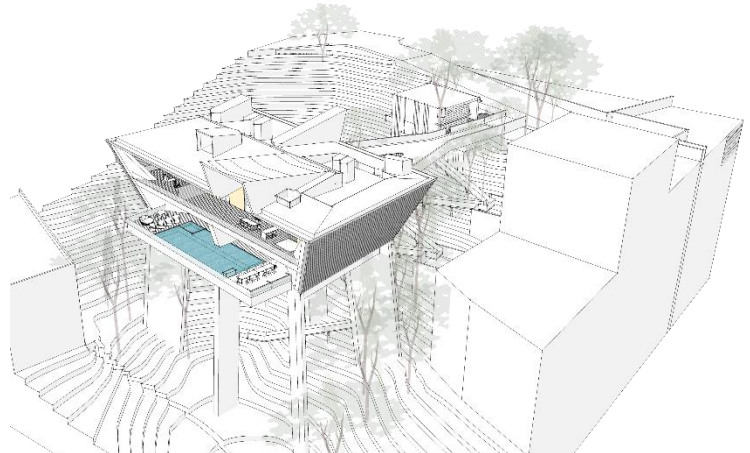
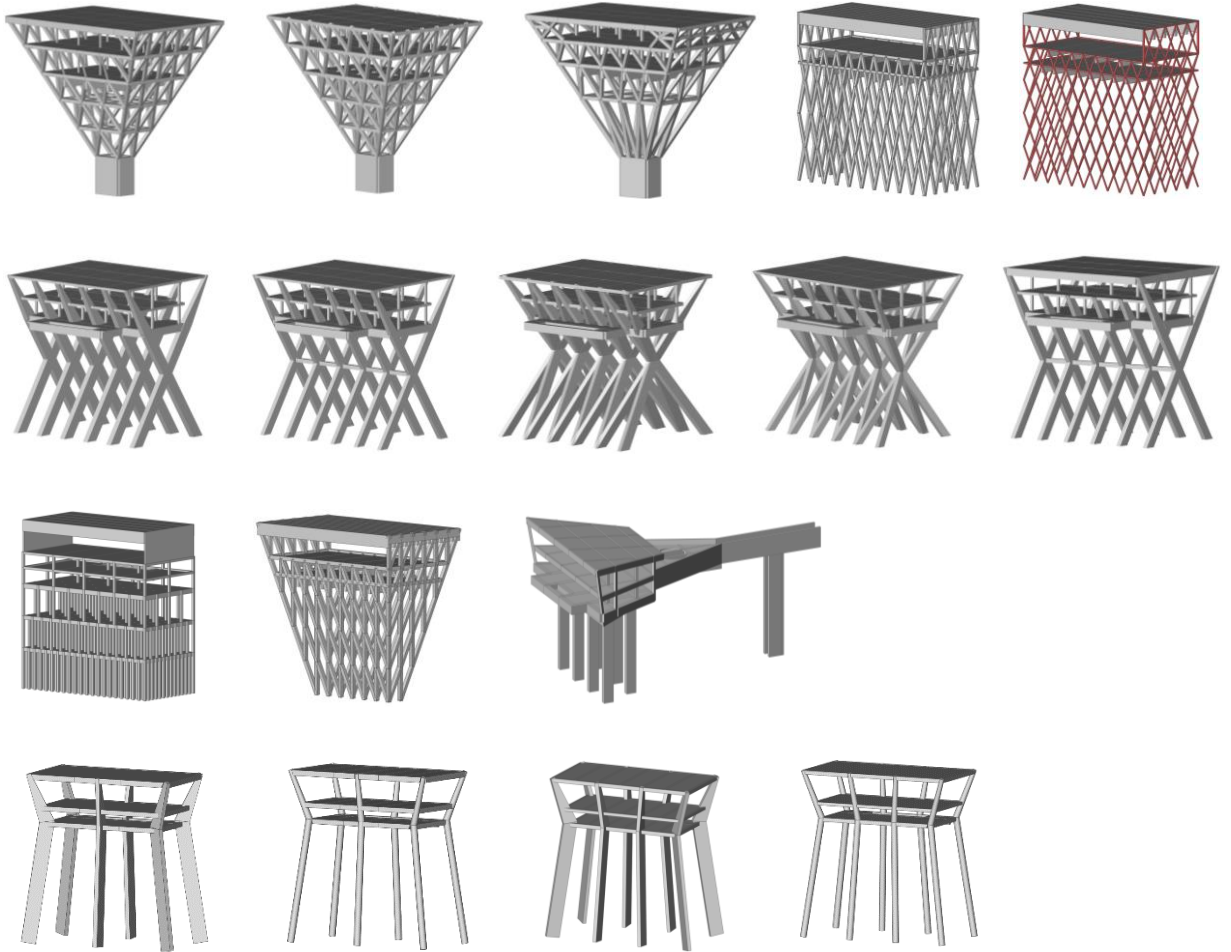
Value engineering proposal for a 42-storey single residential tower where we found a savings of approximately RM3.5million in concrete and reinforcement cost by converting the residential floors from a beam and slab system to a flat slab system

Project **Tower X** Location **Petaling Jaya**
Client **Confidential**
Services **Value engineering: Structural engineering**
Status **Scope completed** Year **2020**



The architect and contractor for this private residence decided upon a steel structure with profiled metal deck and concrete composite floor slab for speed of construction. The design efficiency was increased by designing the beams as composite beams where possible and maximising slab span by assuming propped construction

Project **Section 6 House** Location **Section 6, Petaling Jaya**
Client **Private owner** Architect **Seshan Design**
Services **Civil, geotechnical and structural**
Size/ Cost **Approx. 10,000 ft²**
Status **Completed** Year **2019**



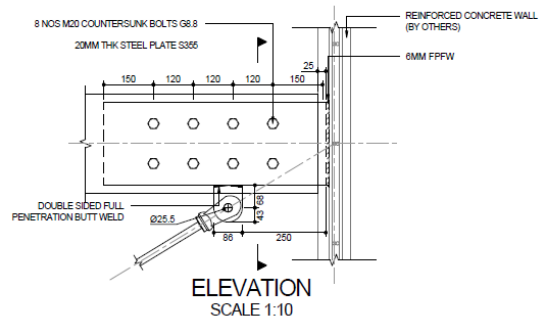
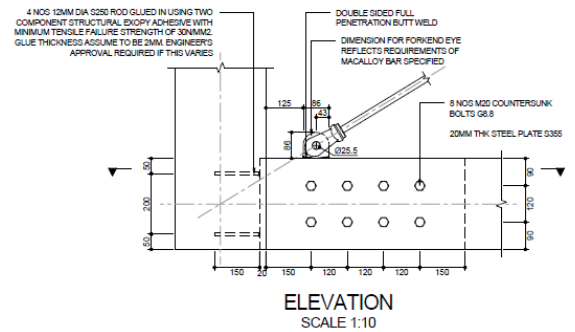
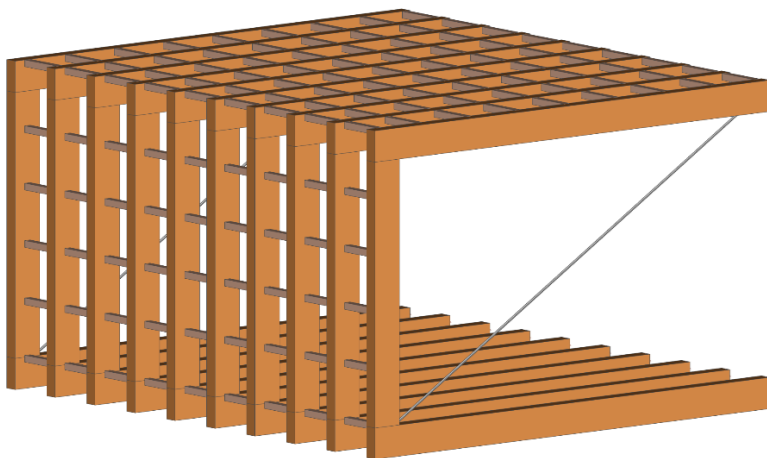
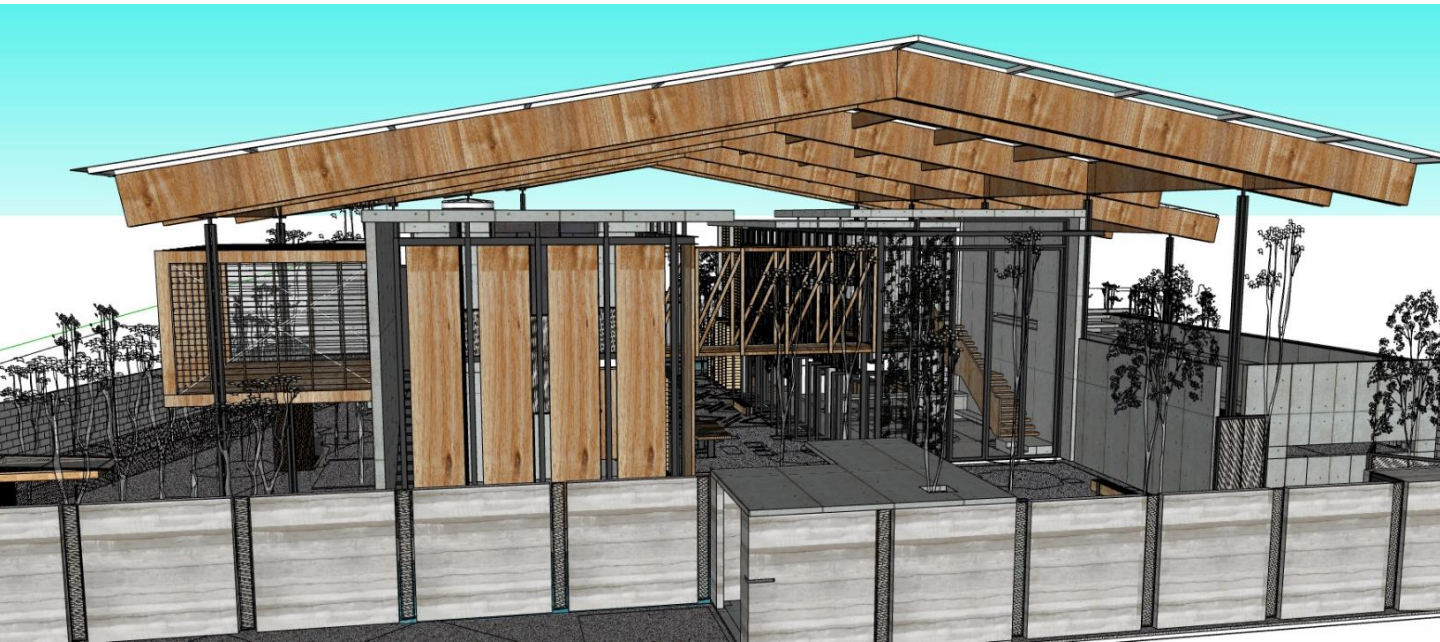
A double storey private residence elevated 30+m on a hillslope. During conceptual design we worked with the architect and client in studying the various potential forms and order of costs for each of these before a final concept was decided upon

Project **Mr Yong's House** Location **Kuala Lumpur**
 Client **Private owner** Architect **Unit One Design**
 Services **Civil, geotechnical and structural. Inception to detailed schematic design**
 Size/ Cost **Approx. 20,000 ft²**
 Status **Scope completed** Year **2017 to 2019**



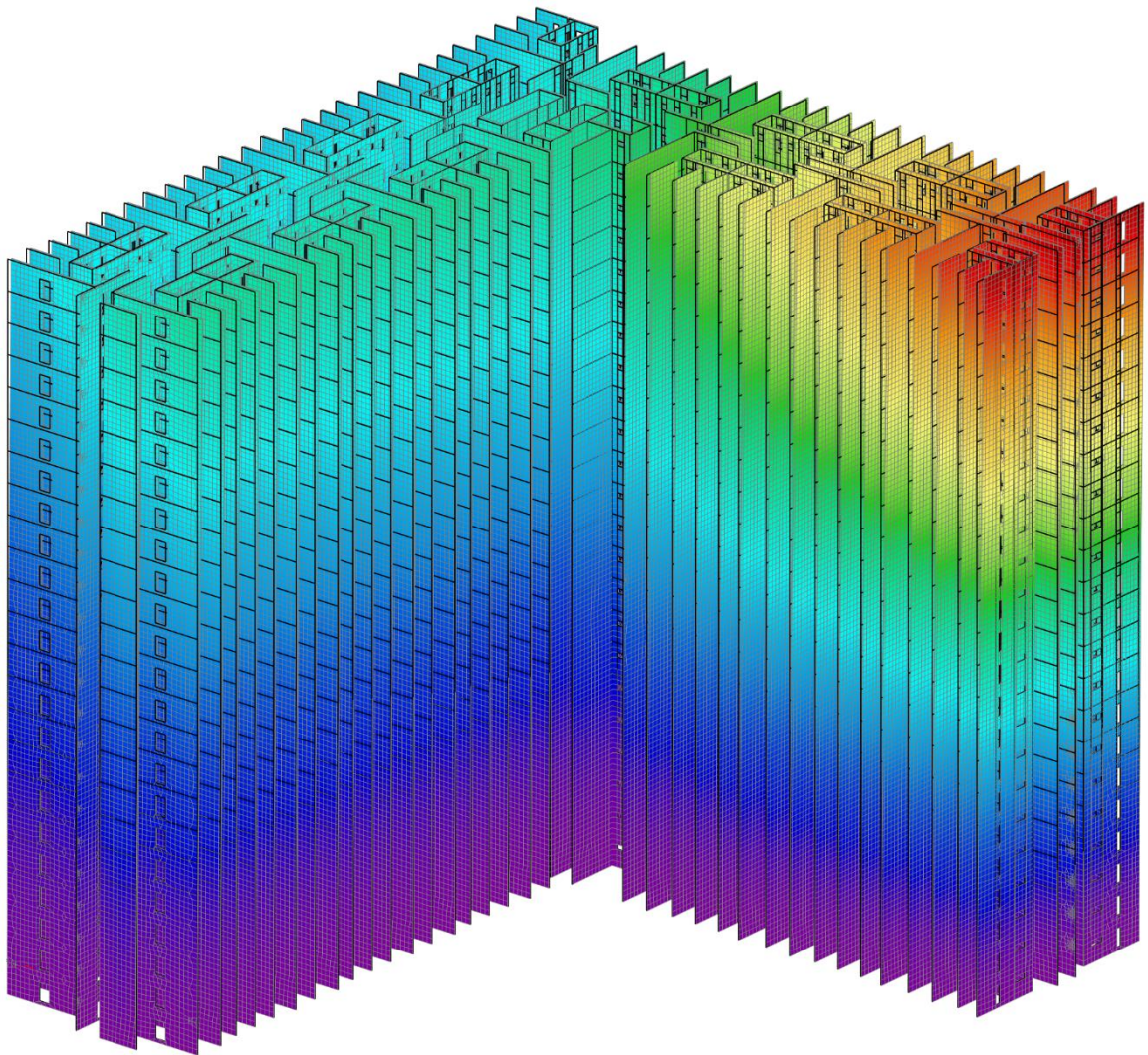
This 3-storey 16,000ft² private residence is located on a 12m cut into a hillslope. A contiguous bored pile wall was used to retain the cut in order to maximise the built up area. The structure is primarily of reinforced concrete flat slab and columns with some portions in steel, coordinated to flow seamlessly with the architecture with spans reaching up to 10m

Project **Setiamurni Residence** Location **Damansara Heights, Kuala Lumpur**
Client **Private Owner** Architect **GDP**
Services **Civil, geotechnical and structural. Inception to the completion of construction documentation**
Size/ Cost **Approx. 30,000 ft²**
Status **Scope completed** Year **2017 to 2018**



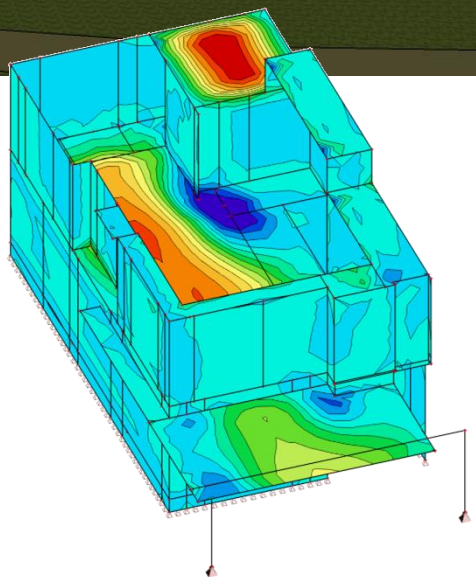
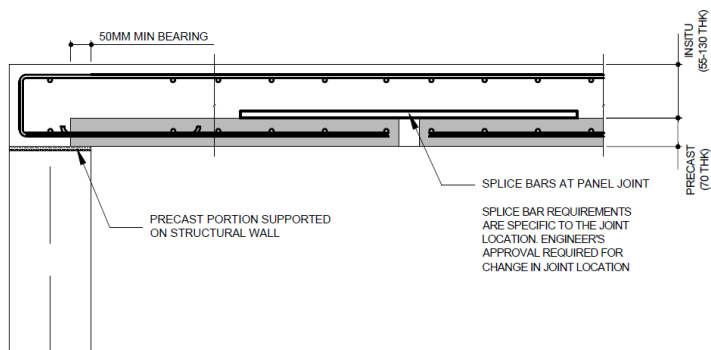
This private residence has a glue laminated timber (Glulam) roof canopy appearing to float over reinforced concrete boxes with various structural timber components between these boxes, including a cantilevered timber box for a gymnasium and a timber link bridge. We undertook the timber engineering design, specifying several local timber species for the Glulam. The timber connections have been meticulously and elegantly designed to meet the desired aesthetics, especially where the timber interfaces with the reinforced concrete boxes

Project **Ponderosa House** Location **Johor Bahru, Johor**
 Client **Woodfield Architect Tetawowe**
 Services **Structural: Timber engineering**
 Status **Scope completed** Year **2017**



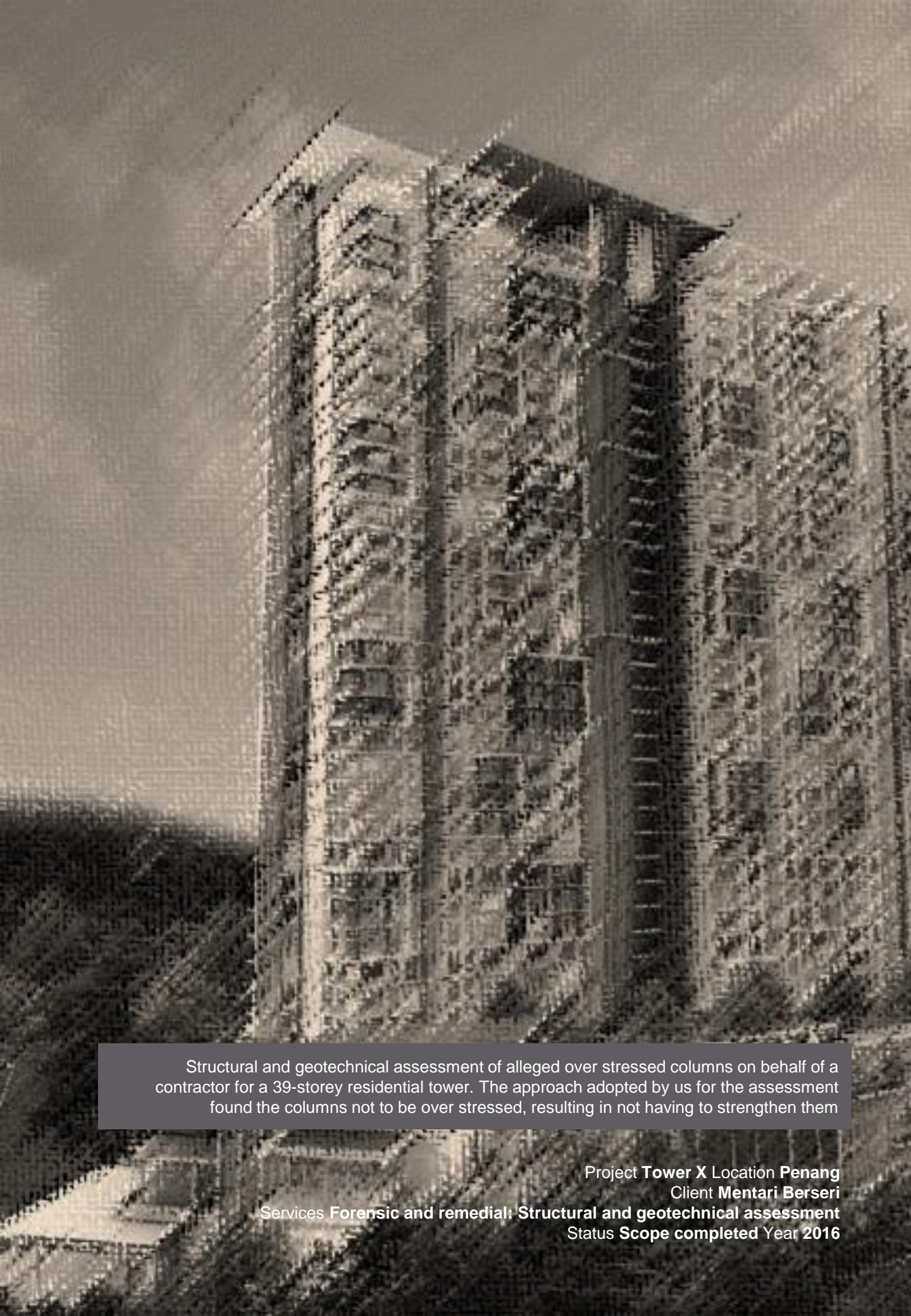
Structural optimization assessment of a 29-storey fully precast concrete residential tower. Approximately RM2.158 million worth of potential optimisation measures were tabled including to use crack width analysis to determine the minimum reinforcement requirement. Determining minimum requirement through crack width analysis in accordance with BS8110 Part 2 results in a more exact and less conservative quantity than the fixed values given in BS8110 Part 1

Project **RMM Affordable Housing Lanai Residency** Location **Bukit Jalil, Kuala Lumpur**
Developer **Berjaya Land**
Services **Value engineering: Structural engineering**
Status **Scope completed** Year **2017**



A township of 272 units of double storey semidetached fully precast houses, a community centre and three TNB substations. The precast system was fully developed by us for Panahome, our Japanese D&B contractor client, from scratch using first principles in part. The type of precast system, element sizes and connection details were all developed to the preference of our client and their construction process

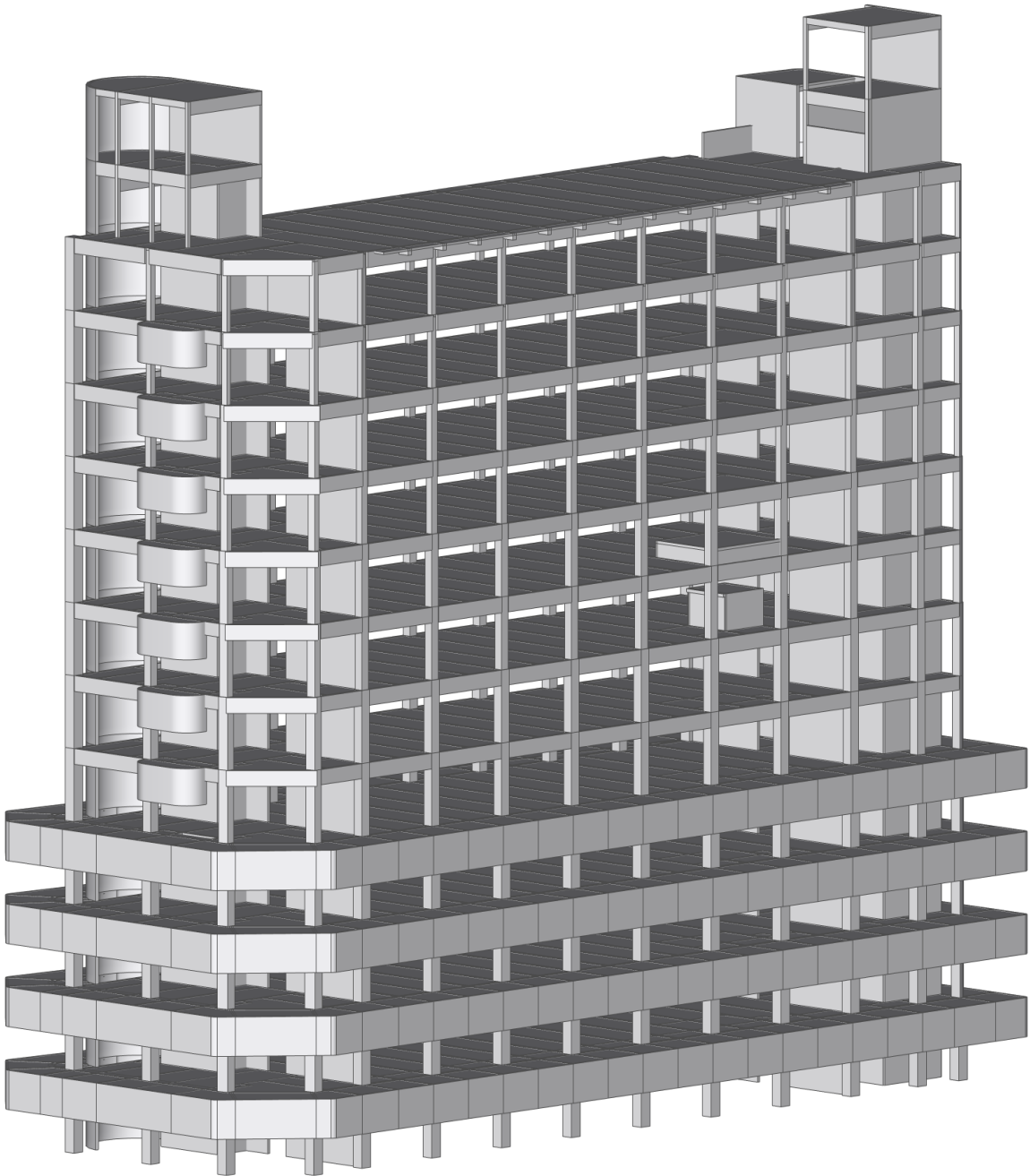
Project **Tropicana Aman Phase 3** Location **Kota Kemuning, Selangor**
 Developer **Tropicana** Client **Panahome** Architect **Blee + W Architect**
 Services **Geotechnical and Structural**. Inception to completion of construction documentation
 Status **Scope completed** Year **2016**



Structural and geotechnical assessment of alleged over stressed columns on behalf of a contractor for a 39-storey residential tower. The approach adopted by us for the assessment found the columns not to be over stressed, resulting in not having to strengthen them

Project **Tower X** Location **Penang**
Client **Mentari Berseri**
Services **Forensic and remedial: Structural and geotechnical assessment**
Status **Scope completed** Year **2016**

Commercial



A mid-rise 1970s building in East Malaysia is being given a new lease of life. We assessed this building that is located along the coast for the causes of the defects observed, the residual structural capacity, remedial measures for the preservation of the building and feasibility study of the possible adaptive reuse. The adaptive reuse and remedial design is currently being done

Project **Tower X** Location **East Malaysia**
Client **Confidential** Architect **Farm, Singapore**
Services **Forensic and remedial: Structural condition audit, defect investigation, remedial design, assessment and design for change of use and refurbishment**
Status **Design** Year **2019 to date**



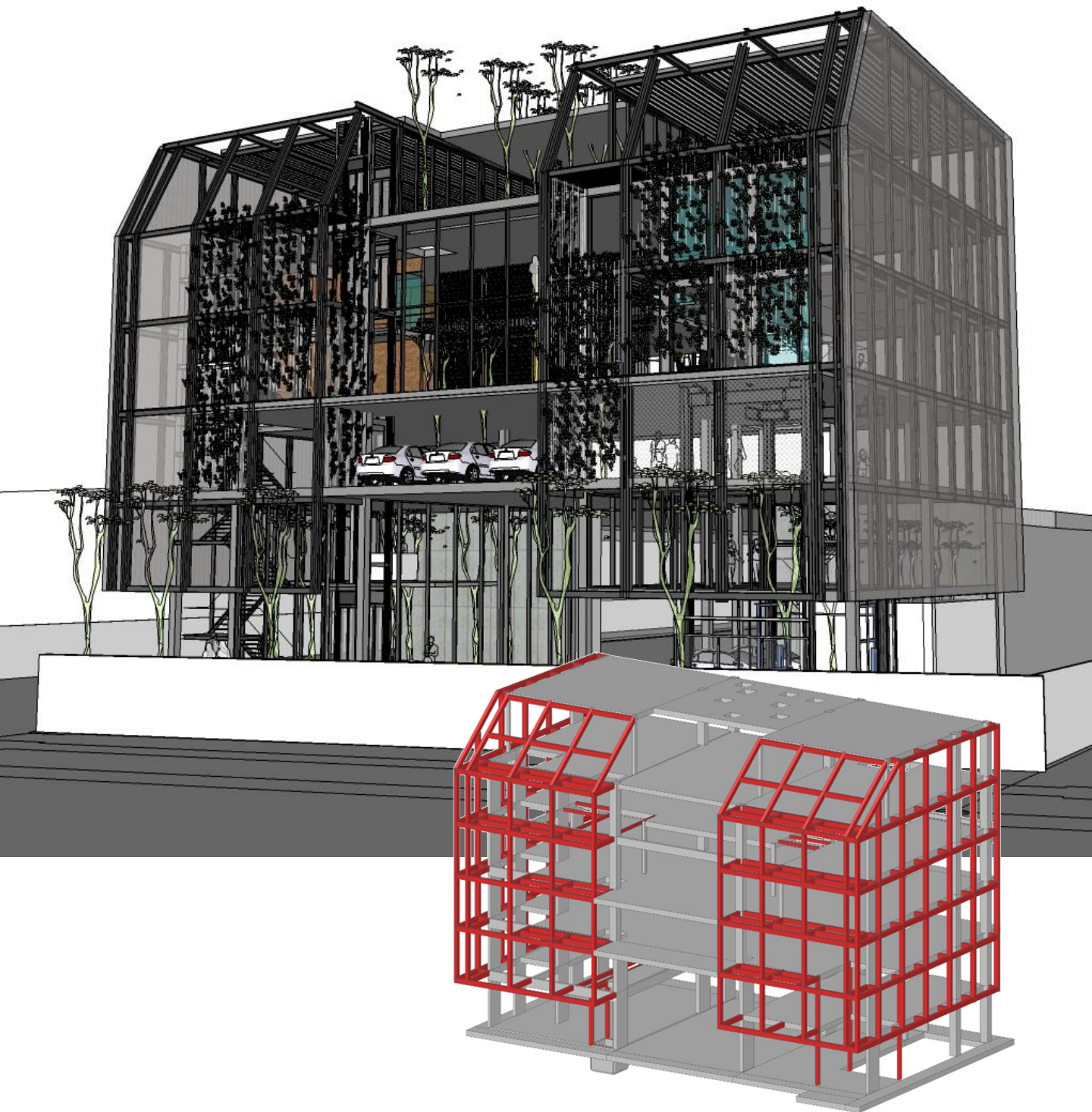
An invited design competition for Signature Market's headquarters and new factory. Our entry was called Signature Park, emphasising biophilic design where employees could experience various aspects of nature whilst they worked. In line with this theme, a structural timber hybrid option was tabled in addition to the conventional reinforced concrete structure

Project **Signature Market Headquarters Design Competition** Location **Selangor**
Client **Signature market** Architect **Formzero + MOA**
Services **Civil, geotechnical and structural**
Status **Completed** Year **2021**



Modern and highly architectural refurbishment of an existing structure for change of use as an F&B outlet. Work included addition of a mezzanine level, partial demolition of floor structure, floor extension along building perimeter and new roof overhang. The engineering design was approached in a manner that would not require the existing structure to be strengthened, whilst still meeting the architectural intent

Project **MyFoodLoft** Location **Cap Square, Kuala Lumpur**
Client **MyFoodLoft** Architect **ZLG Design**
Services **Structural. Inception to the completion of construction documentation**
Status **Scope completed** Year **2017**



This corporate headquarters was designed to reflect the client's core business, a steelwork and structural bearing fabricator and contractor. The structure is primarily of reinforced concrete, mostly exposed fair faced concrete with a 2.55m cantilevered 5-storey high steel vierendeel box truss to the front

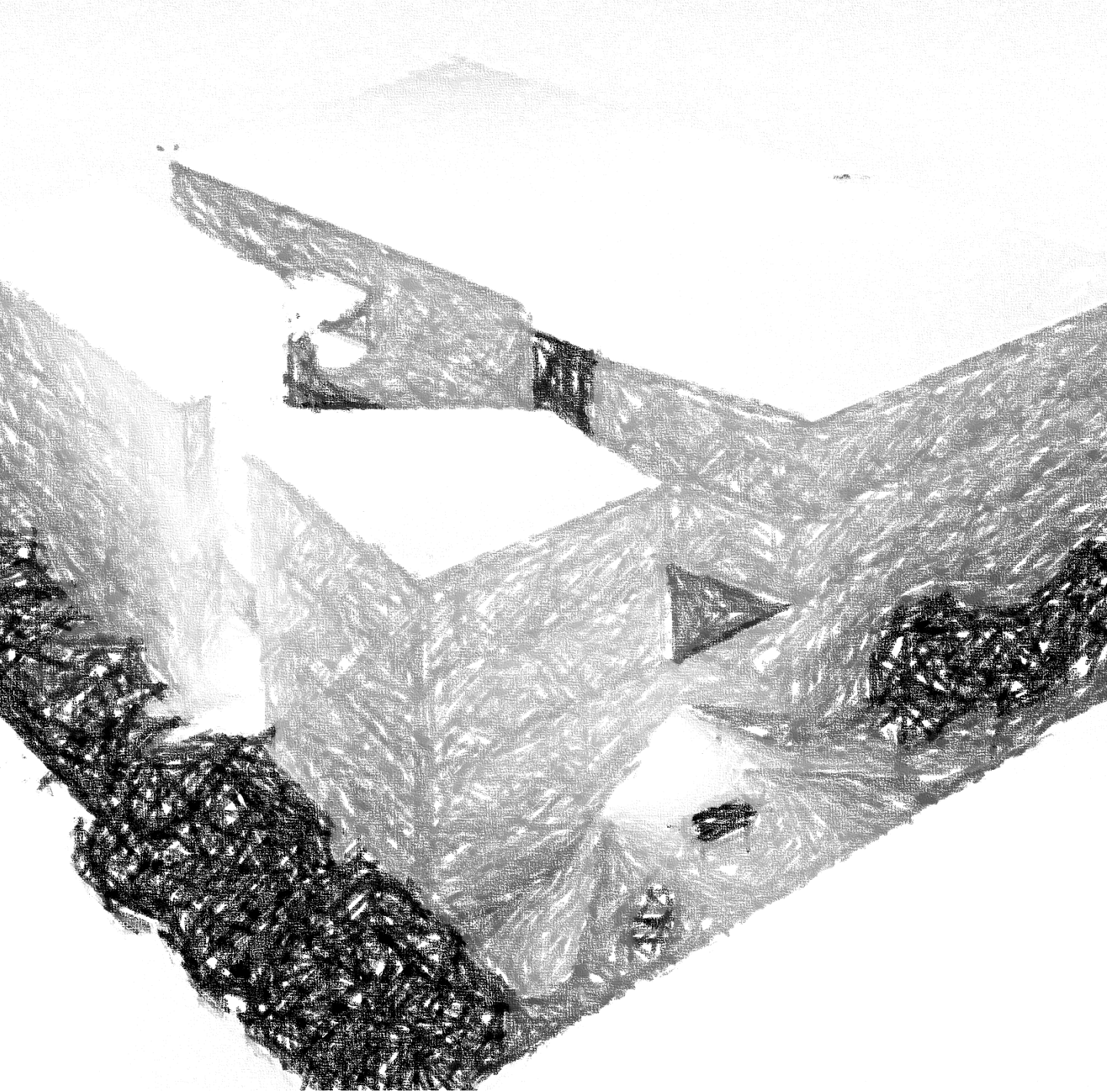
Project **Hercules SEA Corporate HQ** Location **Sungai Buloh, Selangor**
Client **Hercules SEA** Architect **Tetawowe**
Services **Civil, geotechnical and structural**
Status **Tender documentation completed** Year **2017**



We from time to time provide technical advisory support and design review for Bubbledeck Malaysia on several of their projects. Bubbledeck is a proprietary part precast voided flat slab system that uses approximately 30% less concrete than a conventional slab, resulting in considerable reduction in column loads and subsequently foundation loads, especially for high-rises

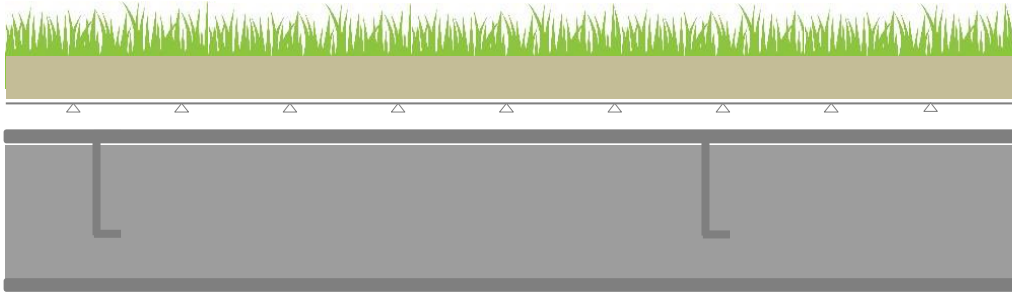
Image: Menara Khuan Choo by Pavilion, 2016.
Image credit: Bubbledeck Malaysia

Industrial



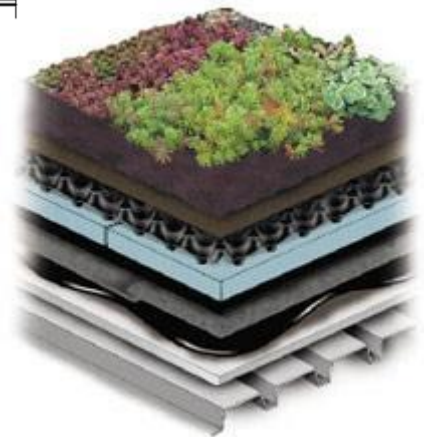
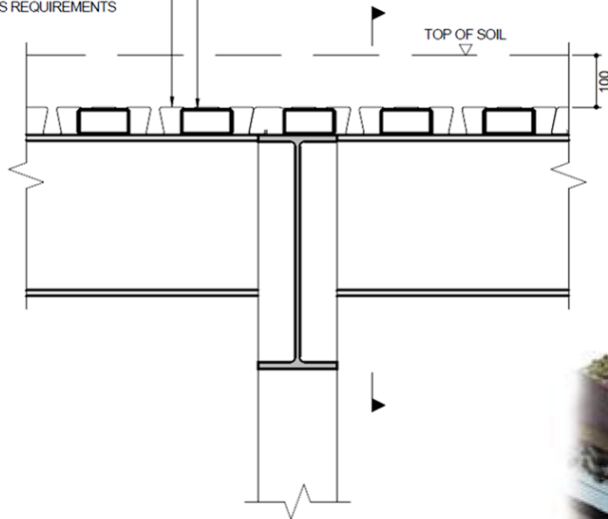
A factory manufacturing wellness products located in one of Petaling Jaya's early industrial areas. The approximately 7566m² site houses a 5-storey administration block and a 6-storey production block with a common 2-storey basement and a link structure housing common spaces and heavy landscaping, giving a total buildup area of approximately 22,000m². The structural engineering challenge on this project is to accommodate heavy industrial and landscape loads for large spans and long cantilevers, whilst keeping element sizes to a minimum and, enabling the desired aesthetic and spatial layout

Project **Natural Wellness** Location **Petaling Jaya**
Client **Confidential** Architect **Hijjas Kasturi**
Services **Civil, geotechnical and structural**
Size/ Cost **Approx. 235,000 ft²/ RM185M**
Status **Design** Year **2019 to date**




100x50x3.0 RHS WELDED TO TOP FLANGE OF BEAM TO ALLOW METAL DECK TO BE SUPPORTED. LENGTH OF RHS TO SUIT WIDTH OF BEAM. 6MM FILLET WELD, 50MM LONG ON EACH SIDE ALONG THE LENGTH OF THE RHS

BONDEK 1.0 BMT PROFILE METAL DECK LAID UPSIDE DOWN. METAL DECK TO BE CONNECTED TO RHS IN ACCORDANCE TO MANUFACTURER'S REQUIREMENTS



Refurbishment of an existing reinforced concrete industrial warehouse to include an accessible green roof and mezzanine floor. A new steel frame was introduced to keep the refurbishment works independent of the existing structure. The roof is formed from profile metal deck without the usual concrete topping (when a roof is accessible) and laid upside down to enable the green roof system to be directly supported on it. This saved cost by not requiring the concrete and reinforcement that would have been needed for the topping; and reducing the load carried by the steel frame and foundation

Project **Rawang Workshop** Location **Rawang, Selangor**
 Client **Private owner** Architect **ZLG Design**
 Services **Structural Status Construction** Year **2015 to date**



Four existing cooling water pumps in TNB Kapar Power Station were being replaced with heavier new pumps. We undertook a structural desktop assessment for this increase in load to determine if the existing structure had to be strengthened. By back analysing the structure using finite element modelling, we were able to conclude that there were redundancy in the existing structure to accommodate the load increase, negating the need for strengthening

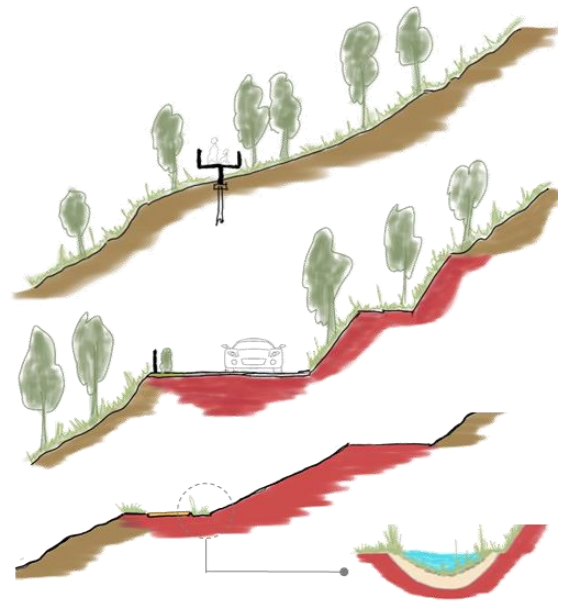
Project **TNB Kapar Power Plant** Location **Kapar, Selangor**

Client **Instrutech**

Services **Forensic and remedial: Assessment and design for change of use**

Status **Scope completed Year 2015**

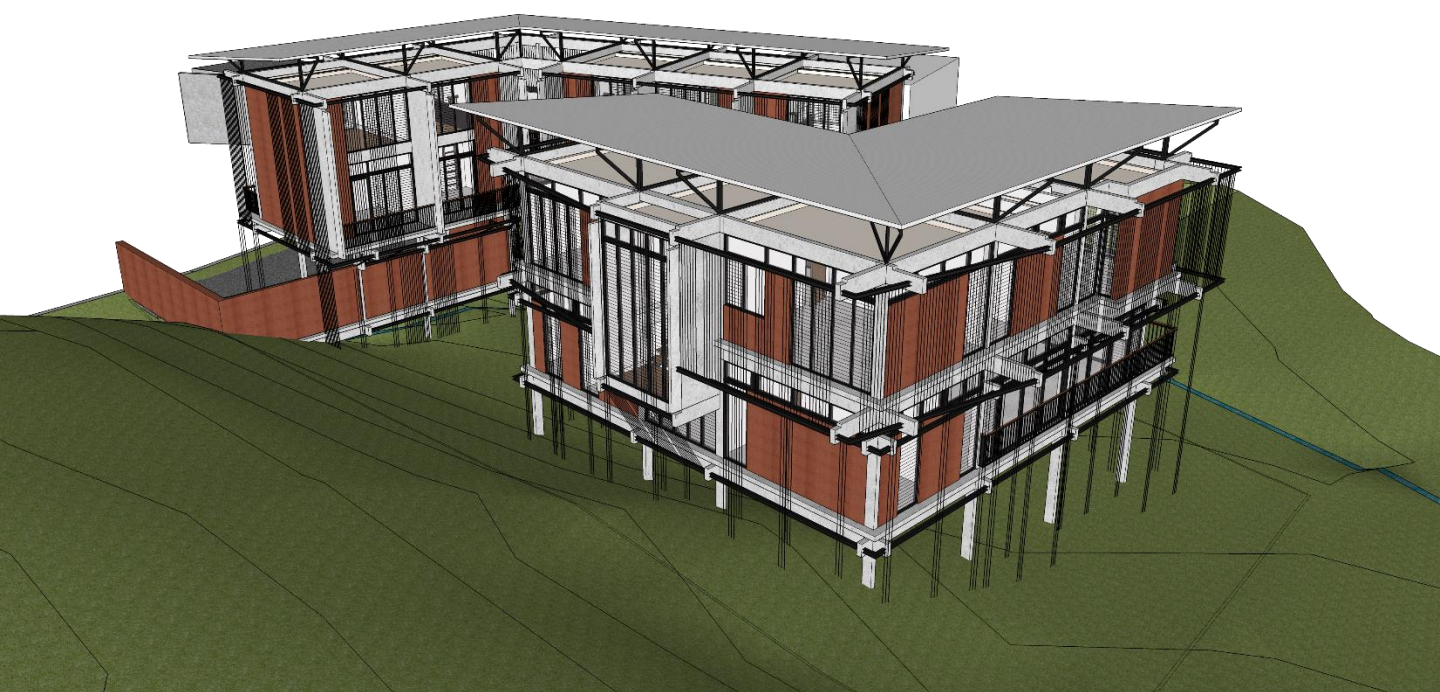
Leisure and hospitality



This 15.8-acre private resort is located in a highland valley in Pahang. On the whole, the resort is approached to minimally touch the existing hillslope, focusing largely on planted forest with a few landscaped gardens, a central manmade watercourse and buildings scattered around these. The land is split into private and public zones. The private zone is for the client's use, which houses the main residence, a chapel, back-of-house amenities and a few small pavilions used as private holiday villas. The public zone has a restaurant, art gallery, small pavilions (used as rentable holiday villas), and a feature link bridge

The conceptual master plan involved initial slope stability assessment, identifying suitable areas to locate the buildings in a site mostly comprising Grade III and IV slopes, planning ingress and egress routes and developing civil engineering strategies that complement the landscaping intents. Stormwater management will be through a network of lined swales and retention ponds, with the manmade watercourse acting as detention pond. A proprietary Danish biological treatment technology was explored for sewerage management, where blackwater will be treated and discharged into the watercourse, and the residual sludge turned into fertilizer

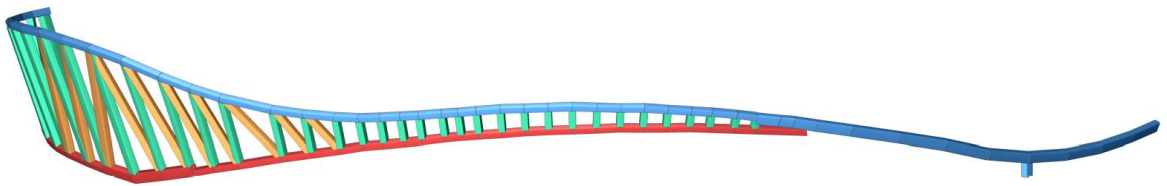
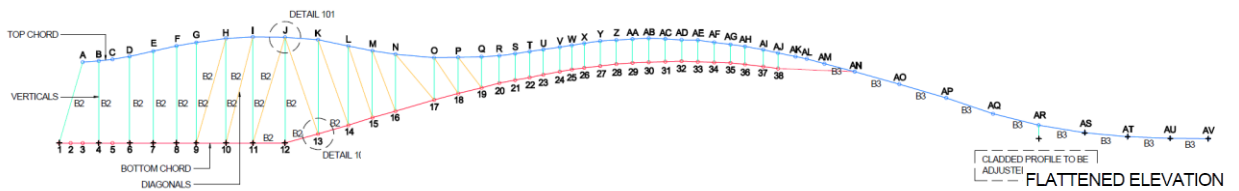
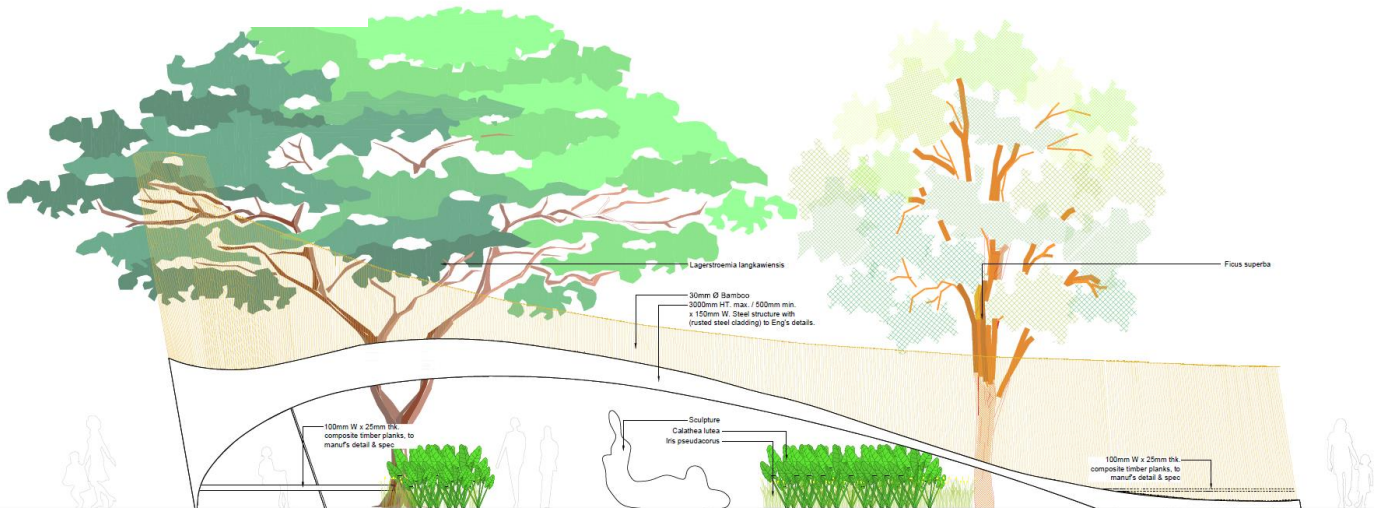
Project **Private Resort X Location Pahang**
 Client **Private owner** Submission and lead architect **CMC Designworks** Masterplan architect
Inchscape Services Civil and geotechnical masterplan and structural
 Size/ Cost **Approx. 16 acres**
 Status **Conceptual design completed** Year **2021 to date**



This boutique hotel has been meticulously developed to meet the client's budget whilst keeping the architect's signature style for which they were hired for. The structure is mainly in reinforced concrete. The mezzanine floor within each room is of cement board slab on steel grillage, with the grillage laid to suit the aesthetics of its exposed soffit. Steel and cement board is used to enable these to be constructed at a later date with minimal interruption to the existing structure. The structure sits on piles that were designed to accommodate column eccentricities without need for ground beams in order to minimise disturbance to the existing hillslope, as it is intended for the hillslope to remain untouched

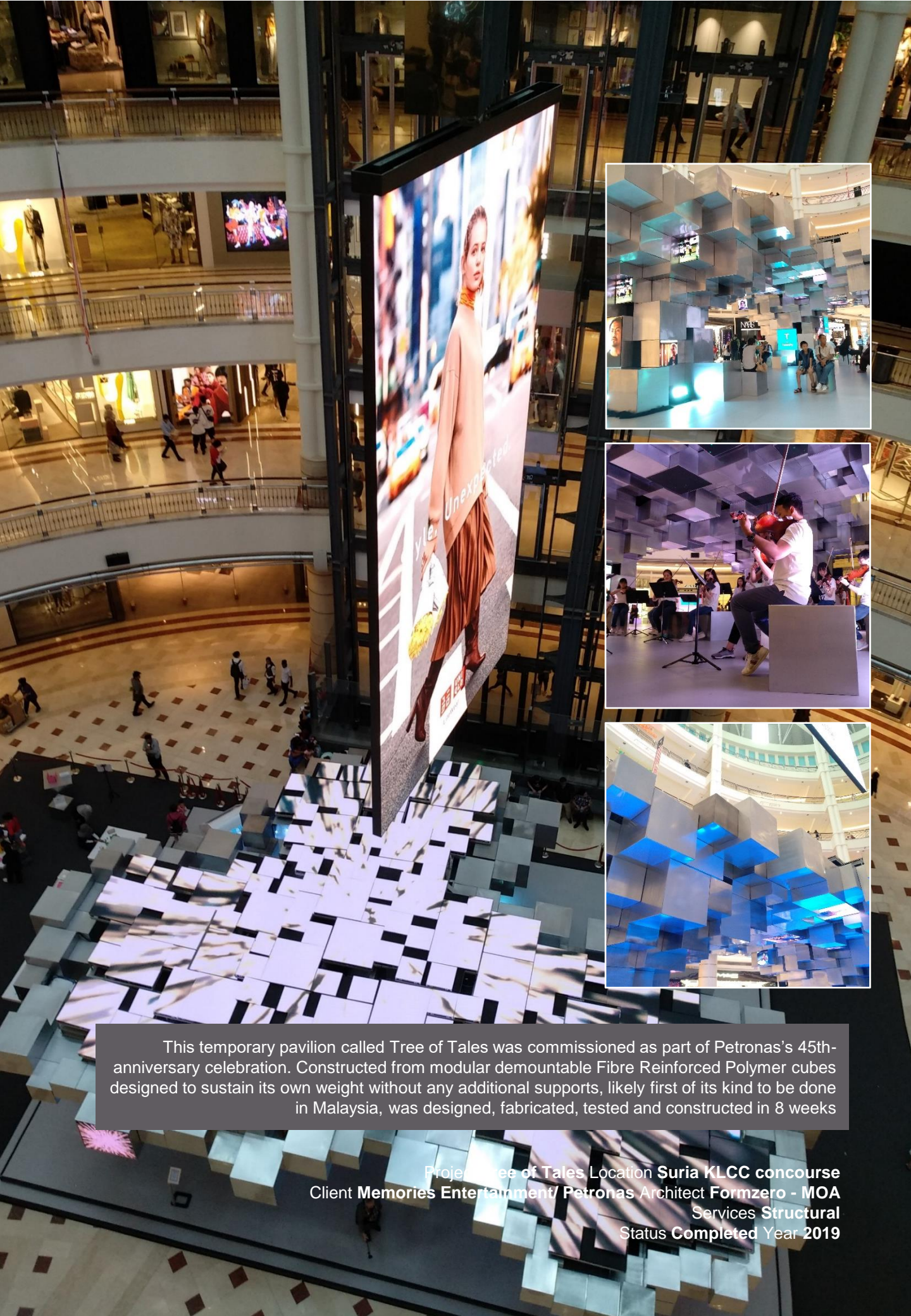
Project **Cameron Retreat** Location **Tanah Rata, Cameron Highlands**
Client **Private owner** Architect **Studio Bikin**
Services **Civil, geotechnical and structural. Inception to construction documentation**
Size/ Cost **Approx. 8200 ft²**
Status **Scope completed** Year **2019**

Special structures



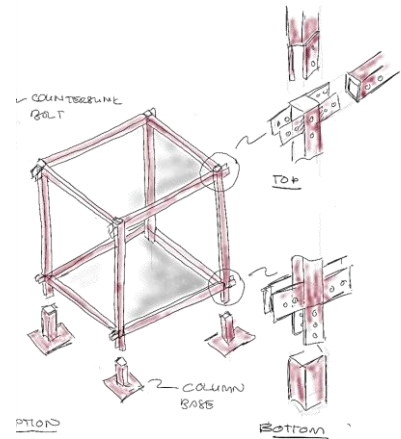
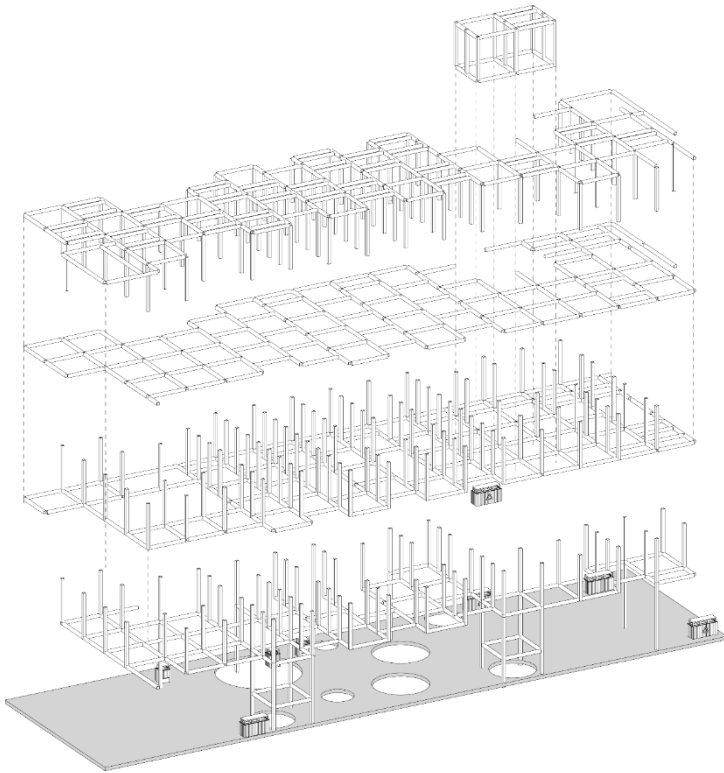
There were quite a few structural challenges posed by this helical sculpture that rotates on plan and on elevation: Simplifying the structural frame to make it buildable whilst keeping the thickness minimal, keeping the load transferred to the existing slab (slab over basement) the garden was located on within the slab's capacity and ensuring that the design intent and geometry were presented in the drawings in manner that could be easily understood and built

Project **Four Seasons Hotel Sculpture Garden** Location **Kuala Lumpur**
 Client/ Landscape Architect **Inchscape**
 Services **Structural. Inception to construction documentation**
 Status **Scope completed** Year **2019**



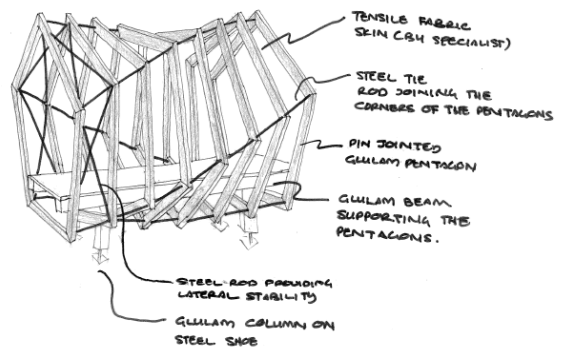
This temporary pavilion called Tree of Tales was commissioned as part of Petronas's 45th-anniversary celebration. Constructed from modular demountable Fibre Reinforced Polymer cubes designed to sustain its own weight without any additional supports, likely first of its kind to be done in Malaysia, was designed, fabricated, tested and constructed in 8 weeks

Project Tree of Tales Location **Suria KLCC** concourse
Client **Memories Entertainment/ Petronas** Architect **Formzero - MOA**
Services **Structural**
Status **Completed** Year **2019**



Our entry was for a modular construction that can be demounted. The superstructure was intended to be reused, not requiring any disposal. The structure was designed for use at the expo for 1 year and relocated to Malaysia as a permanent structure or used as single storey pods in the middle east or Malaysia, possibly as emergency or humanitarian structures

Project **Malaysian Pavillion for Expo Dubai 2020 Design Competition**
 Architect **Eleena Jamil**
 Services **Structural**
 Status **Completed Year 2019**



A twisted pentagonal skeletal structure in the shape of MTC's logo. Constructed using glue-laminated timber formed from a local species called Mengkulang

Project **Archidex 2015 Exhibition Booth**
 Client **Malaysian Timber Council**
 Fabricator **MyGLam**
 Services **Structural: Timber engineering**
 Status **Completed** Year **2015**

What they are saying about us

attentive

good understanding of structural design

committed

saved us large sums of
money

ownership

inspired

innovative ideas

detailed

Best part of having ohr on our team was their attentiveness and ownership. and they are inspired, committed and detailed

Huat Lim
Managing director
ZLG Design
Architect

They have a very good understanding of structural design, which saved us large sums of money from having not to strengthen columns on a high rise

Lim Tee Keng
Managing director
Mentari Berseri
Contractor | Client

Cost is the biggest concern as we have a very tight budget and I was worried if ohr wasn't interested. The project's key concern is optimization of resources to achieve the maximum returns. Obviously this necessitated much time and effort to brainstorm solutions. ohr came through time and again with innovative ideas and solutions and they managed this within our limited budget

Lee Wing Wei
Owner | Client

Engineer it differently

Yasotha Chetty is the founder of ohr. She has been involved in the delivery of projects in UK, Europe, Middle East and Malaysia. Yasotha worked in England for nine years with Buro Happold and Ramboll (Whitbybird), both highly regarded multidisciplinary building consultants. Returning to Malaysia in 2011 under the government's Returning Expert Programme, she joined AECOM, a Fortune 500 engineering firm, heading the civil and structural discipline within building engineering.

Her works spread across various structural materials including concrete, steel, timber and masonry; and covers working with existing buildings to iconic architectures.

Passionate about creative engineering solutions, Yasotha seeks to create a collaborative work environment to develop integrated and innovative design solutions. She is also actively involved with academic and industry bodies, including as IEM's current elected council member and member of it's Civil and Structural Engineering Technical Division committee.

Professional Engineer, Board of Engineers
Malaysia

Director, ohr
Dec 14 to date

Chartered Engineer, Engineering Council UK

Adjunct Lecturer, School of Architecture, Taylor's
University, Malaysia
Oct 18 to Aug 20

Member, Institute of Engineers Malaysia

Member, Institute of Civil Engineers UK

Technical Director, AECOM, Malaysia
Jan 13 to Sep 14

Masters of Research, Computational Modelling
and Numerical Analysis in Engineering
Mechanics, University of Wales, UK

Associate Director, AECOM, Malaysia
Jun 11 to Dec 13

Bachelor of Science (Hons), Civil Engineering,
Universiti Teknologi Malaysia

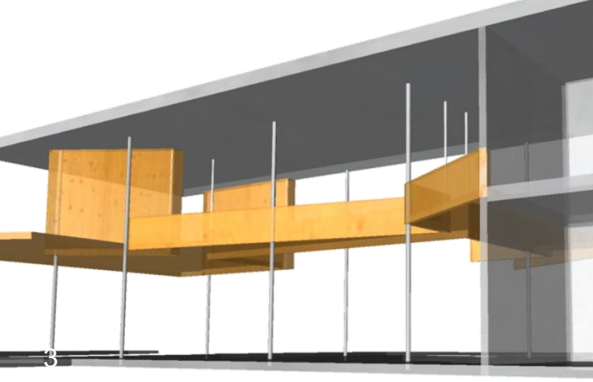
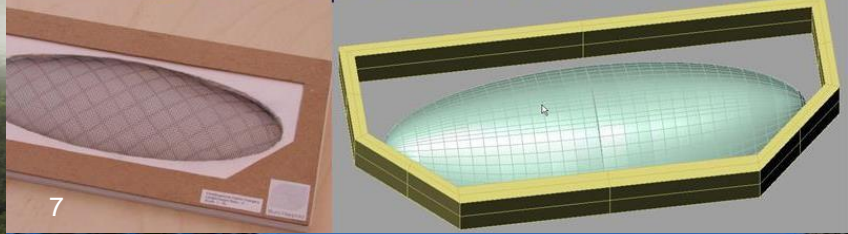
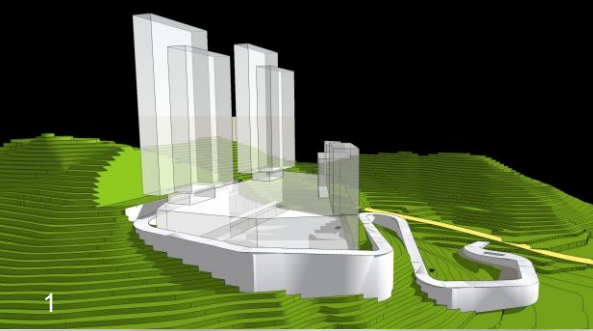
Senior Engineer, Ramboll, UK
Sep 07 to Jun 11

Engineer, Buro Happold, UK
Sep 02 to Sep 07



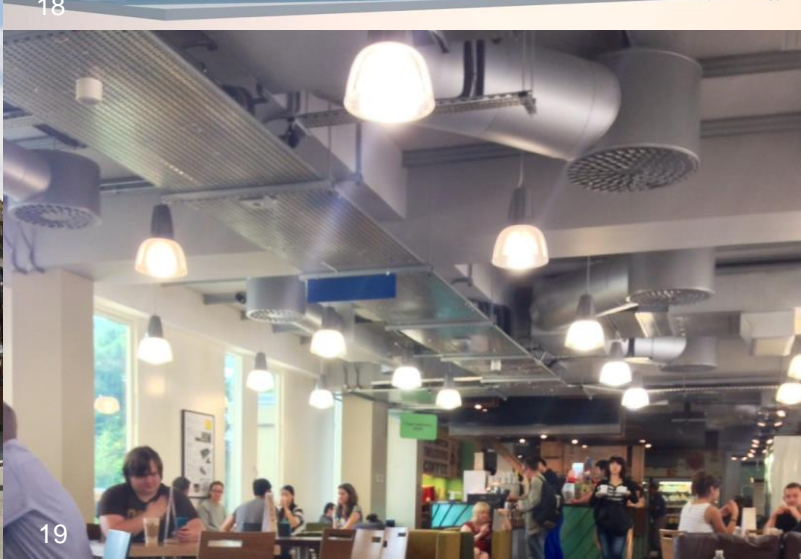
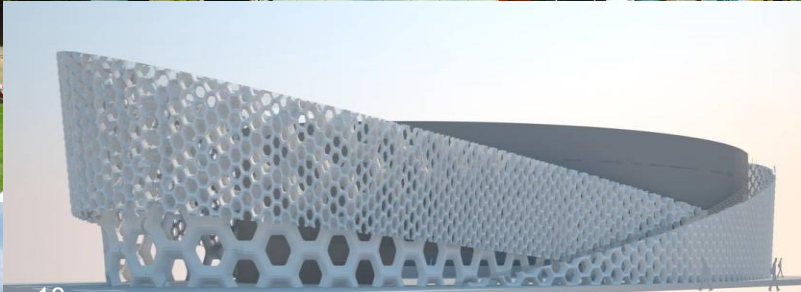
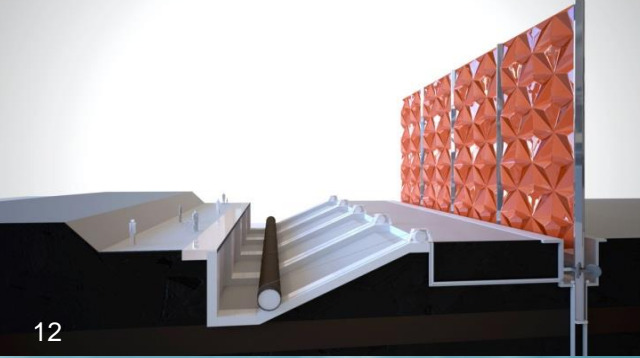
Yasotha Chetty
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Director's profile



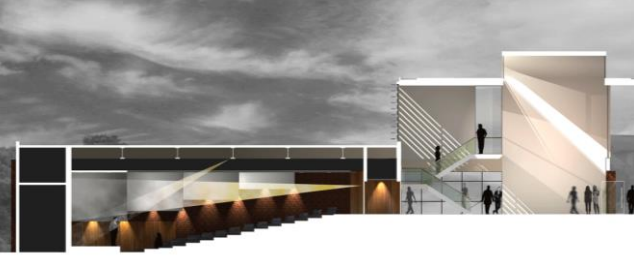
1. High-specification condominium development within the Desa Melawati township, located on a hillslope. Project **Desa Melawati Sector B & C Phase 5** Location **Desa Melawati, Kuala Lumpur** Client **Sime Darby Property** Architect **RIDZA**
2. Hillside development of one 40-storey and two 30-storey residential towers on an 8-storey podium, cutting 25m at the deepest point into a hillslope with 80% Grade III slope and 10% Grade IV slope. Project **Wangsa 9 Residency** Location **Setapak, Kuala Lumpur** Client **Mitrajaya Homes** Architect **SA Architect**
3. The new home for the Institute of Contemporary Interdisciplinary Arts at the University of Bath was the subject of a limited design competition. Architecturally expressed concrete and cross laminated timber panels create a contemporary structure with flexible spaces. Project **University of Bath ICIA complex** Location **Bath, UK** Architect **MUMA**
4. 11-storey reinforced concrete structure with a single-storey basement along the waterfront of Thames River. The building is located on a site of historical and environmental significance with, Tower of London and Tower Bridge to its east and London Bridge to its west. As such, the principal objective throughout the progression of this project has been to provide the most appropriate structural solution whilst also ensuring minimal archaeological and environmental disruption. Being adjacent to a trafficked river, the structure is also designed to resist potential ship impact. Project **Three Quays** Location **London, UK** Architect **3D Reid**
5. A nearly 200m tall development with three basements. The top 60% of the height of the building uses the concept of 6 stacked, separate palace structures stabilised by a small eccentric core. Project **Sky Palaces** Location **Business Bay, Dubai** Architect **Fosters + Partner**
6. A high-specification development consisting of two 189m tall tower blocks with a connecting back core and a low-rise retail structure with four levels of basement. The architectural form of the towers enables the use of a trussed exoskeleton structure on the perimeter. Project **Plot 18 Business Bay** Location **Business Bay, Dubai** Architect **Fosters + Partners**
7. Restoration and refurbishment of a Grade I listed orangery at Chiddingstone Castle with a new glazed timber gridshell roof using locally sourced Chestnut. Wood Award 2007 Best use of British Timber. Project **Chiddingstone Castle Orangery** Location **Chiddingstone, UK** Architect **Peter Hulbert Architect**
8. New visitor centre for the Royal Botanical Gardens of Edinburgh. Double-storey timber structure with deep Glulam tapered roof grillage and solid cross laminated timber panel flooring. Project **John Hope Gateway** Location **Edinburgh, UK** Architect **Edward Cullinan Architects**
9. A 4-storey, highly detailed piece of modern architecture with aims to regenerate the town. The structural engineering provides integration with the services and complements the sculptural architecture. Project **Middlesbrough Institute of Modern Art** Location **Middlesbrough, UK** Architect **Erick van Egeraat**
10. A 14-meter-high glass wine rack complete with trapezing wine waitresses built on existing structure, the centrepiece of the 500-room Radisson SAS hotel at Stansted Airport. Project **Radisson Stansted Wine Tower** Location **Stansted, UK** Specialist designer **Edward Shirley Staging**
11. A futuristic two-tower scheme housing 397 unit residential complex to the east of Canary Wharf. The 34 and 28-storey towers sit on a 7m podium with sky balconies. Project **Trafalgar Way** Location **London, UK** Architect **Make Architects**

Director's relevant prior experience



12. Schiphol Airport Sound Barrier is a design competition entry. The submission was shortlisted with nine other entries to progress to the second phase of the competition, where it was developed to conceptual stage. The design brief required a sustainable, self-funding 2km long sound barrier that reduces sound by 7db whilst meeting the regulations of the various authorities. Dubbed Dynamic Sculpture, the proposed undulating retractable wall set in a sustainable technology park was intended to showcase the client's commitment to innovation and sustainability. Project **Schiphol Airport Sound Barrier** Location **Amsterdam, Netherlands** Architect **Various Architects**
13. Development of a new campus for APU at Technology Park Malaysia. The project was intended to be phased with a basement over the whole site area. Project **APU Campus** Location **Bukit Jalil, Kuala Lumpur** Client **APU** Architect **HL Design**
14. Structural appraisal of an early 1960s crematorium building for new layout and compliance with Disability Discrimination Act. Project **North Somerset Crematorium** Location **Weston-Super-Mare, UK**
15. Refurbishment of existing collation of buildings dating from 1890, including modifications to comply with the Disability Discrimination Act. Project **Torbay Palace Theatre** Location **Paignton, UK** Architect **Stride Treglown Tektus**
16. The development is designed for 2600 students on 26 acres of land and aims to be the greenest development on this side of the tropics. Project **ISKL** Location **Kuala Lumpur** Architect **HOK (UK) / Veritas (Submission)**
17. Development of a new Malaysian campus for University of Reading. Project **University of Reading Educity Campus** Location **Iskandar, Johor** Client **University of Reading** Architect **Scott Brownrigg**
18. The client for the Arts Alliance mobile venue set a tough brief. The structure had to be capable of being erected within two weeks, and when demounted, it had to fit inside a reasonable number of shipping containers for transportation across the world. This brief was met by providing a rigid but lightweight steel central drum with self-supporting pneumatic extensions. World Architecture Festival 2009 Future Project Award. Project **Arts Alliance Mobile Theatre** Location **Worldwide** Architect **Various architects**
19. Structural appraisal of an existing 1950s educational building for introduction of a new café on one of its floors. The project required detailed assessment of the capacities and loadings. Project **4 West Cafe, University of Bath** Location **Bath, UK** Architect **Stride Treglown Tektus**

Director's relevant prior experience

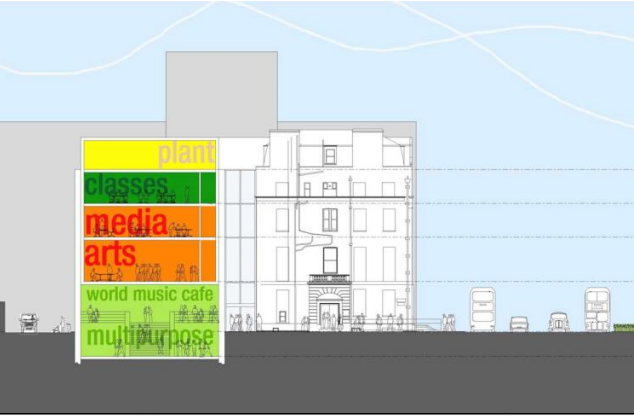


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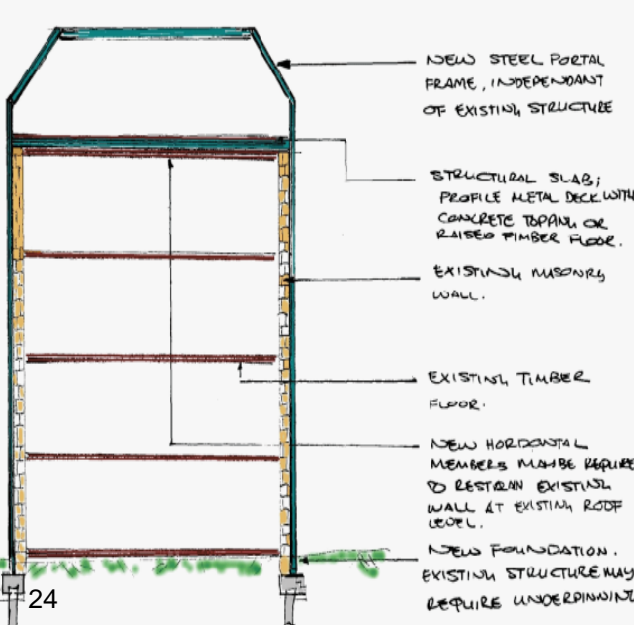
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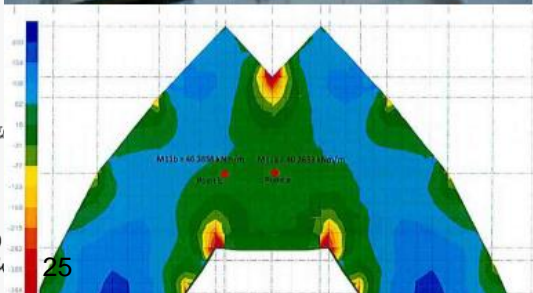
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20. Refurbishment and extension of existing 1970s lecture theatre using steel frame with composite metal deck. Project **John Stripe Theatre** Location **Winchester, UK** Architect **Design Engine**
21. Structural appraisal of an existing 1958 5-storey educational building to determine the capacity and likelihood of extending the building life for a further 30 years, including retention of the façade. Project **Oxford Brooke University Redevelopment** Location **Oxford, UK** Architect **Design Engine**
22. Initial assessment of the conditions of the existing farm buildings of Court Farm in relation to converting the buildings to residential units, principally for holiday letting. The buildings date from pre-1820s to pre-1950s. Project **Court Farm** Location **Marksbury, UK**
23. Proposed redevelopment of the School of African and Oriental Studies' Bloomsbury Campus, which includes extension to a 1970s building and introduction of a new top floor to a row of Georgian townhouses. Project **SOAS Masterplan** Location **London, UK** Architect **John McAslan + Partners**
24. Structural assessment of defects, testing and remediation of the ground floor slab of the warehouse. Project **Mapletree Warehouse** Location **Shah Alam, Selangor**
25. Desktop assessment of a floor of Menara Maxis for change of use and layout. Project **Menara Maxis** Location **Kuala Lumpur** Client **ISG**

Director's relevant prior experience

Unashamedly Ethical

As a member of the Unashamedly Ethical campaign, we are committed to be honest and ethical in all our dealings; to provide efficient, economic and effective products and services in an impartial manner; to provide all stakeholders with timely, accessible and accurate information; to refuse to elicit, accept or pay any bribes, and to report those who do; to negotiate all contracts with the utmost integrity; to pay taxes, and to pay all creditors on time; to pay reasonable salaries and wages; to submit ourselves to just and ethical governing authorities; to remember the poor by investing generously and sacrificially in the broader community; to collaborate with our peers to impact our community and nation.

www.unashamedlyethical.com

ohr (ore, Hebrew אֹר) v. to be the light

Date of incorporation

December 2014

Registrations

SSM 002389591-M

BEM 1015-1000-SP-1419

MOF J22010639591557253

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