

2025 CAPABILITY STATEMENT

STRONGHOLD
ENGINEERS

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ABOUT

Stronghold Engineers, a leading engineering consultancy with a focus on commercial fitouts, structural engineering, stormwater management, façade design, remediation, and project management. Our expertise lies in shaping residential apartments and mixed-use buildings, ranging from 2 to 20 stories and up to 250 units. Our designs are not only innovative and efficient but also comply fully with the DBP Act 2021, ensuring quality and safety.

We are proud to say that our work undergoes rigorous auditing by NSW Fair Trading, affirming our commitment to excellence. Our specialization extends to providing structural advice for commercial fit-out projects, where we have successfully completed hundreds of stores annually, collaborating with renowned brands like Westfield and other major shopping centres across Australia.

Additionally, we offer structural consulting and documentation for new offices and bank fitouts. Our portfolio of repeat clients, including MPA, Built, Scentre Group, Westpac, St George Bank, and National Australia Bank, speaks to the trust and reliability we bring to every project.

At Stronghold Engineers, we are committed to being leaders in the engineering consulting field by focusing on our core values – quality, efficiency, and innovation.

STRUCTURAL ENGINEERING CAPIBILITY

Commercial fit out

With over 10 years of experience, we specialize in structural and mechanical design for commercial fit-outs, serving clients across Australia. Our expertise extends to major banks and commercial fit out of brand new and existing building, helping more than 4,000 shops and office renovation meet compliance standards in the last eight years.

Residential and Commercial building

Our portfolio showcases a wide range of residential and commercial projects, from intimate 5-story buildings to towering 50-story edifices, and from developments of 20 units to expansive 2,000-unit complexes, demonstrating our versatile expertise and commitment to excellence.

Remedial Engineering

Our extensive expertise across all engineering disciplines enhances our proficiency in remedial services for residential and commercial buildings, particularly in areas like waterproofing and concrete repair. This solid background ensures we deliver superior solutions, upholding the highest standards of quality and durability in every project.

Design Review

Leveraging our extensive expertise in building design, we specialize in identifying and addressing potential long-term design flaws and remedial defects at their inception. Our review process includes offering advisory services to builders and developers, aimed at achieving substantial long-term savings on remedial work. This proactive approach not only minimizes future building remediation expenses but also significantly reduces strata costs for apartment owners, ensuring the highest quality of structural design for the end-user.

Temporary work

We have solid experience for formwork, scaffolding design, inspection , sign off, also experience in temporary loading platform, heritage façade retention , underpinning

Luxury housing

Our expertise in remedial work and design, particularly in structural detailing and waterproofing, guarantees that luxury homes are constructed to the highest standards. This commitment to quality has been recognized with two MBA Housing Awards, showcasing our ability to deliver award-winning design projects.

Alternation and addition

We have more than 15 years of experience in alteration and addition for residential housing

Interim and Final Defect Inspection (under Strata Building Bond & Inspection Scheme)

We provide comprehensive interim and final defect inspections in compliance with the Strata Building Bond and Inspection Scheme. Our team of experts will carry out a thorough inspection of the building, identifying any defects and log onto Strata Hub

ACCREDITATION AND QUALIFICATION

- Australian Society of Building Consultants Membership
- Engineers Australia
- ACRA
- Concrete Institute of Australia
- Strata Community Association

CURRICULUM VITAE



Eric W.H Wu

Engineering Project Director -General Manager

FIEAust EngExec NER 2844494, RPEQ 19939, DEP0000007

Bachelor of Engineering Honours (Civil), Bachelor of Commerce

Eric Wu has been designing structures for over 20 years and has experience with a wide array of projects. His experience includes hundreds of commercial, residential, entertainment, educational projects, Sydney Train and RMS approval design throughout Australia. Eric‘s versatile skills allow him to provide services cover all stages of design development - costing and financial planning, design and preparation of documents and certificates, site supervision. As a structural engineer, he designs the ‘bones and muscles’ that create the form and shape. He not only achieves design goals but also ensure the safety and comfort of users or occupants.



Declan O’Connor

BIM Manager

Architectural Technology/Technician, Bachelor of Applied Science (BASc), Architectural Technology/Technician

Declan brings over 25 years of experience in the construction industry to the table, beginning his career as a formwork foreman. Throughout his career, he has amassed extensive experience in complex formwork, steel bar detailing, and the assembly of intricate structures using both his hands and tools. His proficiency in Revit/BIM was developed on-site, further enhanced by continuous training with Autodesk, leading him to master advanced skills in Revit.

Subsequently, Declan transitioned into a BIM technician role within some of Australia's leading engineering consultancies, including Meinhardt, Bonacci, and Meriton. In January 2022, he joined Stronghold Engineering, where he has been instrumental in converting all documents to BIM and refining detailing to align with the standards of top-tier consultants in Australia.



Terry Wu

Principal Civil Engineer

MIEAust NER 4448937, DBP Class 2: DEP0000252

Bachelor of Civil Engineering, Master of Civil Engineering, Master of Project Management

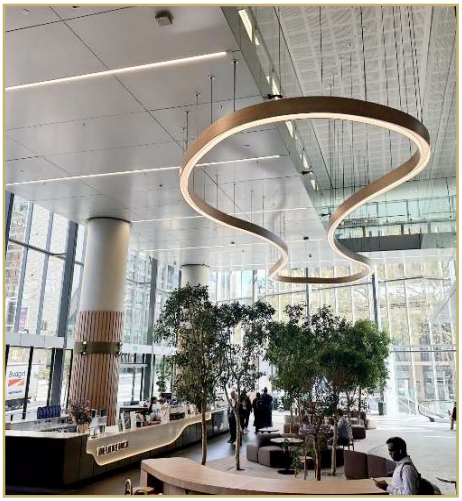
Terry Wu holds master's degrees in civil engineering and project management from the University of New South Wales. With 10 years of combined working experience in Civil/Traffic, Stormwater Engineering, Terry has accumulated substantial expertise and proficiencies, including Onsite Stormwater Detention (OSD) System Design, Hydraulic Grade Line (HGL) Analysis, Water Sensitive Urban Design (WSUD), Civil/Road Design and Traffic Assessment. His background encompasses comprehensive involvement in diverse developments. Throughout his career, Terry Has been involved in a wide range of projects, ranging from residential, commercial, industrial to large scale sub-division developments.

NSW CLASS 2,3, 9C

PROJECT LIST

- Post office St, Carlingford, 125 apartment, 5 storey, 2 basement , 40m construction
- Roxy Place, Lindfield, 54 units, 7 townhouse, 1 basement, $30m construction
- 2-4 Eton Road, Lindfield, 10 units, 6 townhouse, 1 basement $15m construction
- 454 Forest Rd, 50unit, 12 story apartment, 4 basement, $10m construction
- 2 Canberra Ave, St Leonards, 2 basement, 50 units, $10m construction
- 84-90 Gordon Cresent, Lane Cove, 190 Luxury Apartment, 2 Basements, $60M Construction
- 11-13 Hinkler Avenue Caringbah, 30 Luxury Apartment, 2 Basements, $10M Construction
- 52-54 Copeland Street, Liverpool, 30 Luxury Apartment, 2 Basements, $10M construction, RMS Approval, Sydney Water Approval
- 51-53 Howarth Street, Wyong, 40 Luxury Apartment, 1 Basement, $12M Construction
- 49-51 Veron Street, Wentworthville, 40 Luxury Apartment, 2 Basements, $13M Construction, Sydney Train Approval, Sydney Water Approval
- 29-31 Moree Street, Gordon, 15 High-End Townhouse Development, 2 Basements, $8M Construction
- Fairway Residence, 88 Cenenary Drive, Strathfield, NSW, 53 2-3 Storey Townhouse Design and Inspection of Steel Framing
- The Adeline, 5-7 Telegraph Road, Pymble, NSW, Large Overhang Roof Design and Inspection
- The Herron, 43 Cranbrook Street, Botany, NSW, 3 Storey Light Gauge Steel Structure Detailing
- Nepean Christian School, 836 Mulgoa Road, Mulgoa, NSW, Structural Steel and Cold Formed Steel Design
- Mountain View Adventist College, 41 Doonside Road, Doonside, Scissors Design and Inspection
- Bankstown City Aged Care, 34 Hydrae Street, Reversby, NSW, Top Floor Framing Design and Inspection
- AVACS Aged Care, 783-785 The Horsley Drive, Smithfield, NSW, Framing Design and Inspection
- Pacific Lodge Aged Care, 8 Homestead Avenue, Collaroy, NSW, Truss Design and Inspection
- Tilly's Childcare, 71 Mustang Drive, Rutherford, NSW, Timber Frame to Steel Frame Conversion, Steel Frame Inspection
- JP500 Phase 2A Electronic Warfare Operational Support, SA, Internal and External Stud Framing Design

COMMERCIAL FITOUTS











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Dior


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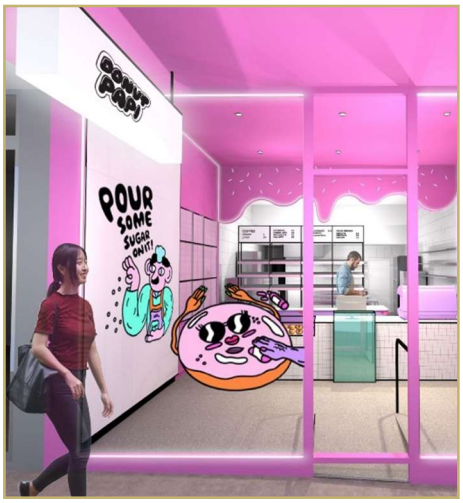
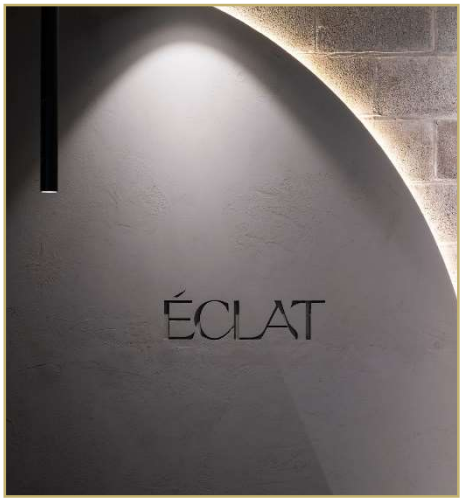

DONUT POP!
POUR SOME SUGAR ON IT!

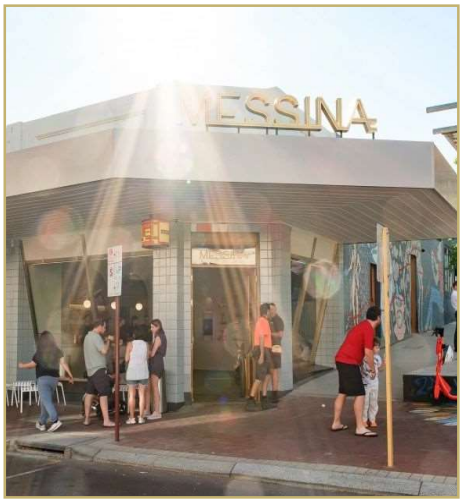

DONBURI


ÉCLAT


江戸前寿司
FOOMAE Sushi


FOOD PLACE
美食坊


má là tàng
麻辣烫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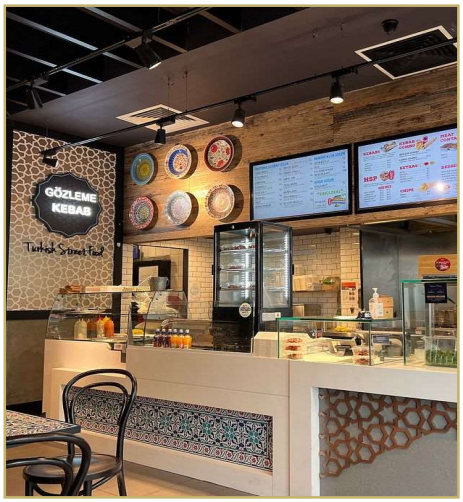
MESSINA


MESSINA


ORDER

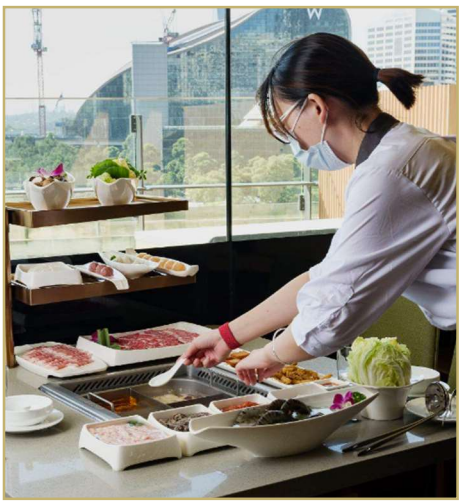

GOELIA
GOELIA
SYDNEY


Gong cha
Gong cha


GÖZLEME
KEBAB

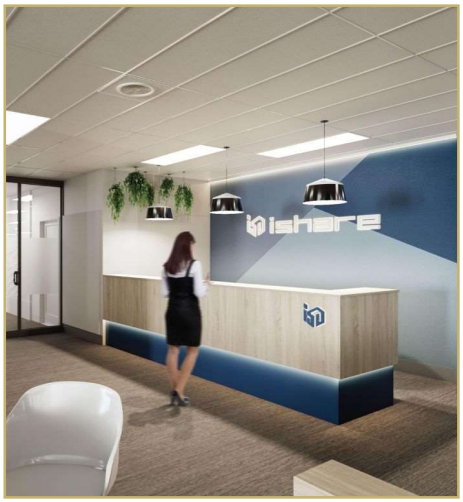

牛舍
GYŪSHA
JAPANESE YAKINIKU


Hot Pot




SEAFOOD & BUTCHER
HAO SUP


IPPIN
JAPANESE DINING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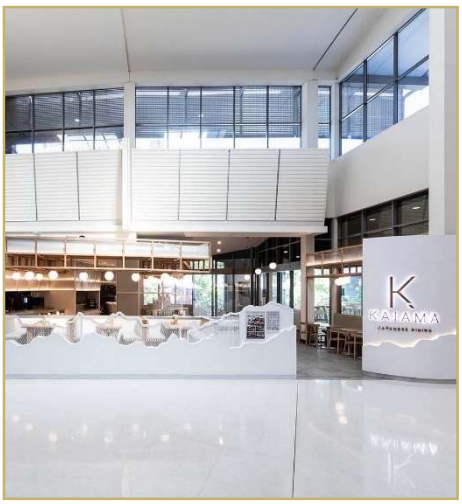
Johnny
BIGG




KAIAMA

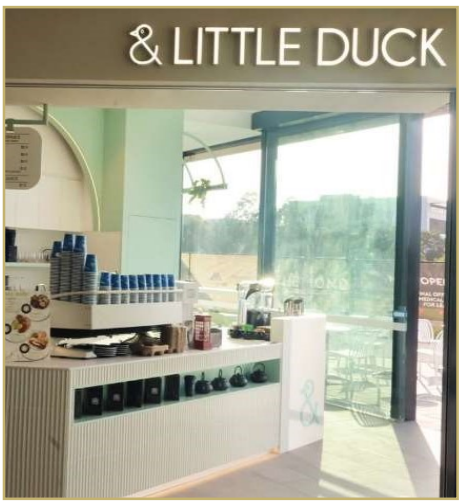

KFC


KFC
$3.95

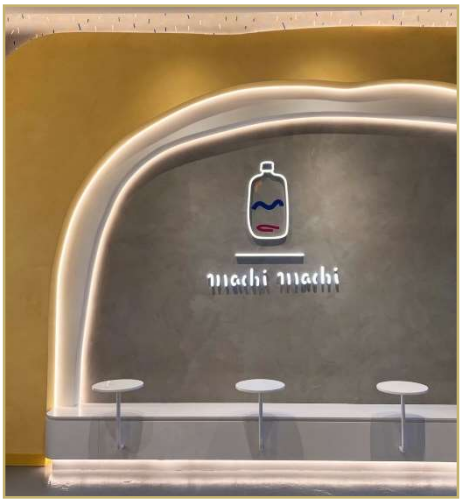

King
of the Pack
Your local
Tobacco Specialists


KOR BQ


CHINA TANG


& LITTLE DUCK


M.J. BALE
Little Sparrow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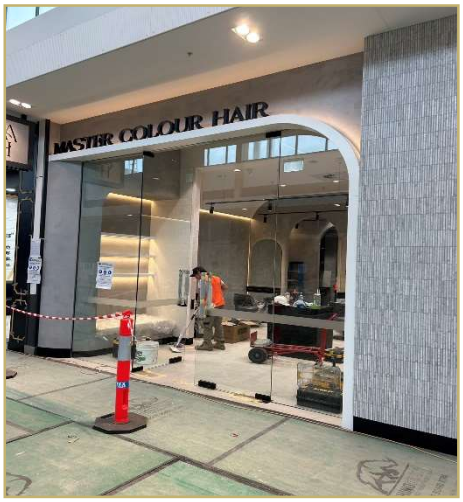
I love you
so machi.




magic


massage & acupuncture
FIRE HOSE REEL
FIRE HYDRANT


MASTER COLOUR HAIR


Meet Fresh
Exquisite teas, treats, desserts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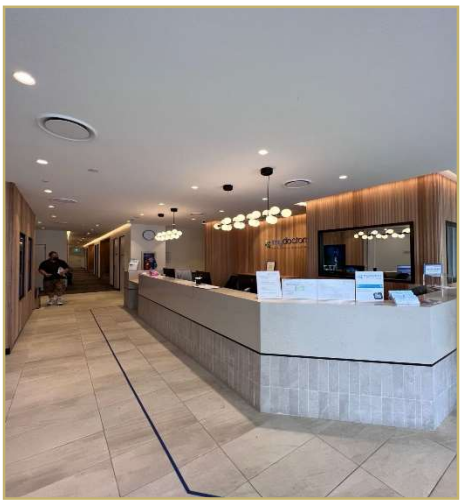
Mint MY DESK




MR. 石頭火鍋
STONEBOWL
PENING SOON


MUJI 無印良品


mydoctors

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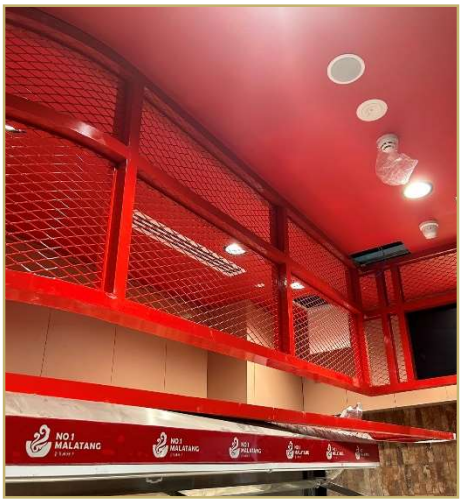







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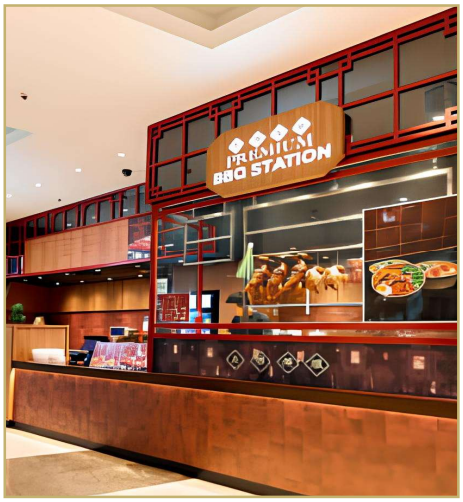
POP MART
POP MART
Molly


BBQ STATION


PLEASE
WAIT
TO BE
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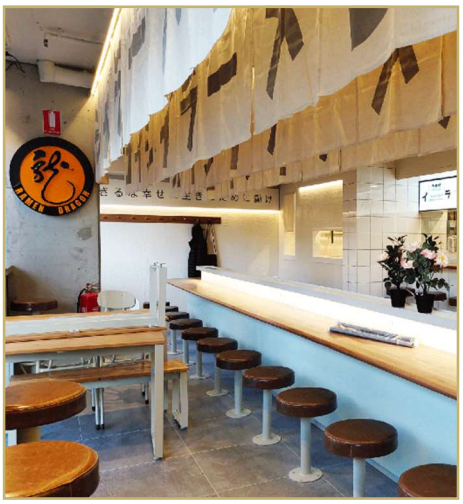

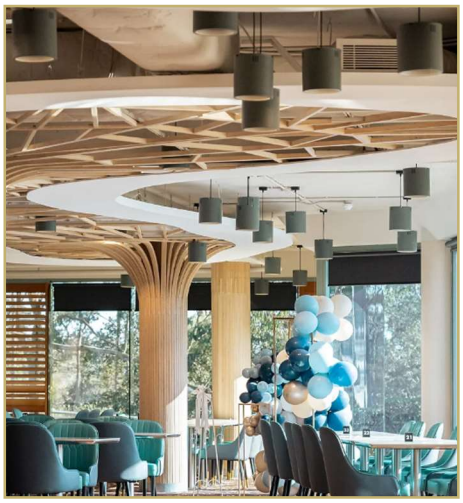


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VIETNAMESE


SAN CHURRO
TORTA


Sharetea




SOLE













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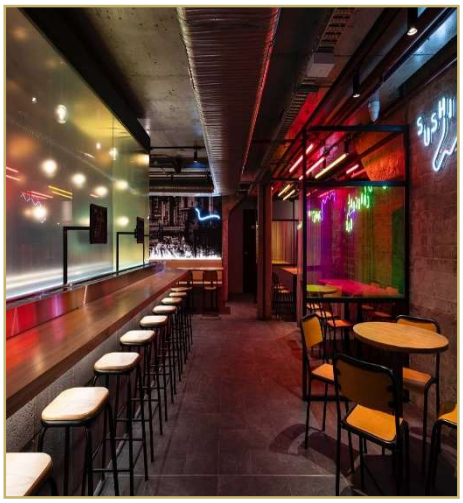
SOUL ORIGIN


st.george



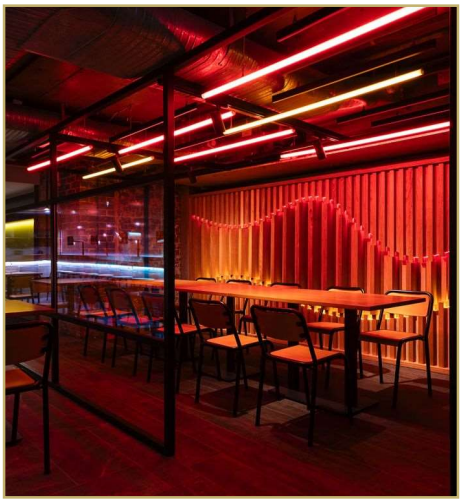

SUPER EMOJI


SUSHI
HOTARU
CHARCOAL BAR







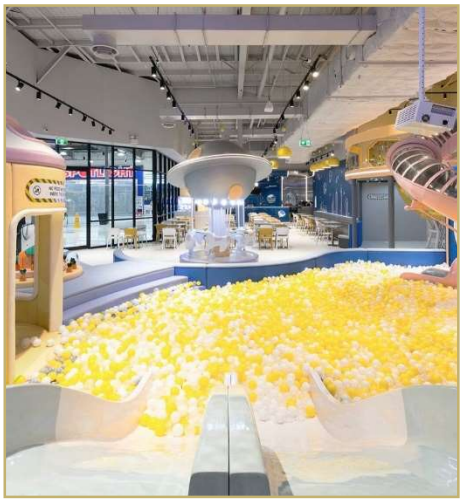



SUSHI HUB


SUSHI HUB


SUSHI NAYA













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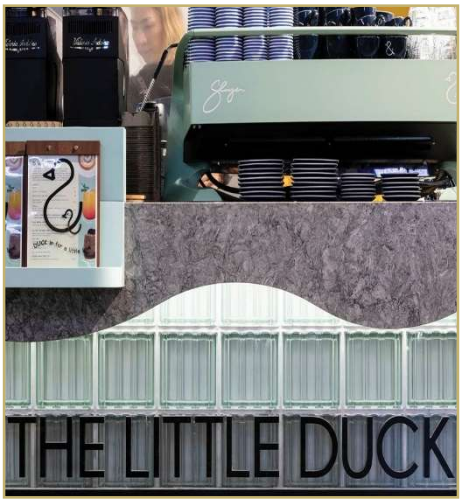
SHOE CHANGING
RECEPTION
TADA KIDS CAFE


THE LITTLE DUCK


THE LITTLE DUCK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studio

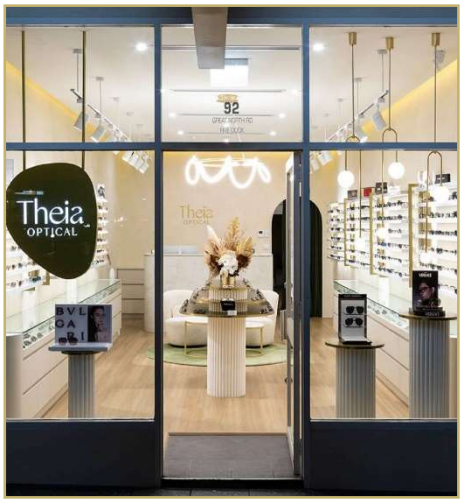

THE MEN'S
GROOMING


THE NAKED DUCK


THE NAKED DUCK




THE ONE


92
Theia
OPTICAL




Theia
OPTICAL


TONGLI SUPERMARKET
通利超級市場


TOP IMPRESSION
BAKERY CAFE





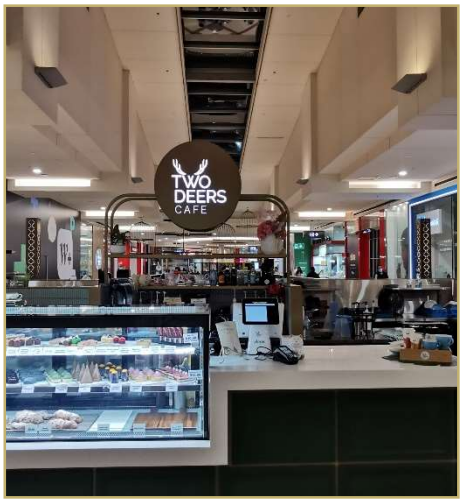





TOP IMPRESSION
BAKERY




Toys AND Tales


TWO DEERS
CAFE


Yakiniku Yokocho
Yakiniku Yokocho




油香廈庄




豚ホルモン


焼肉横丁
ストラスフィールド
クロイドン
Strathfield
Croydon
Yakiniku Yokocho


焼き肩横丁
Yakitori Yokocho

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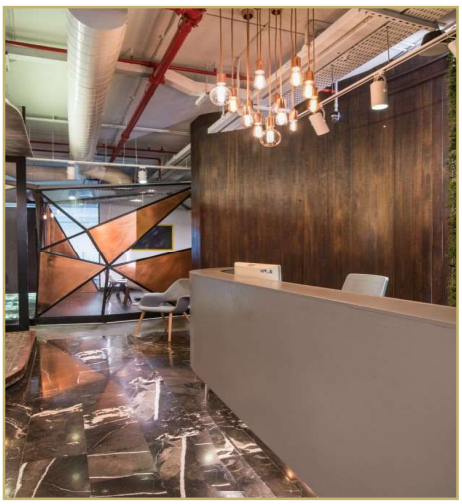
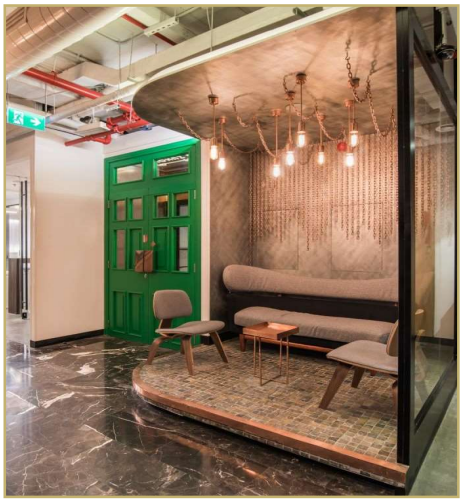
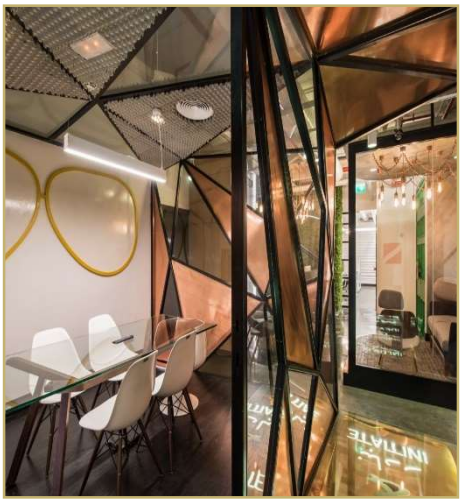
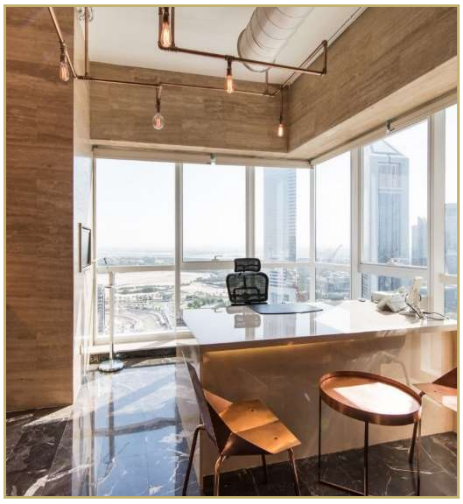
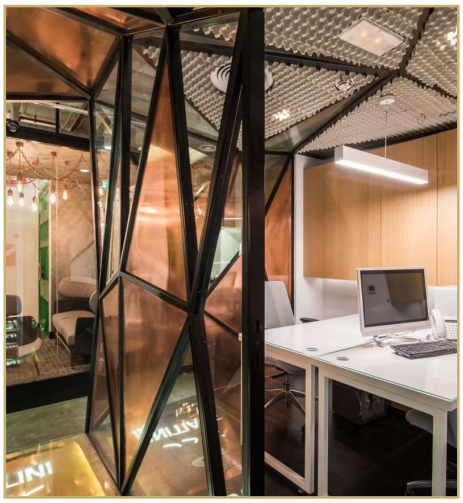


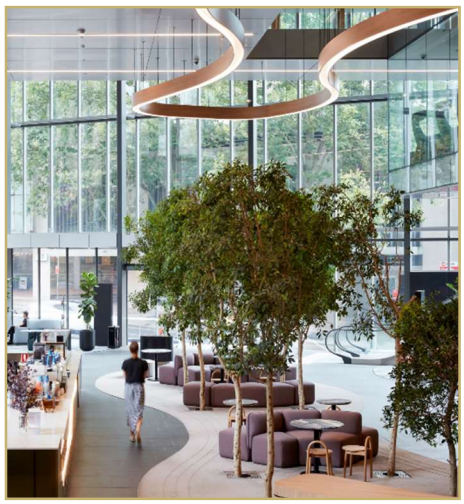




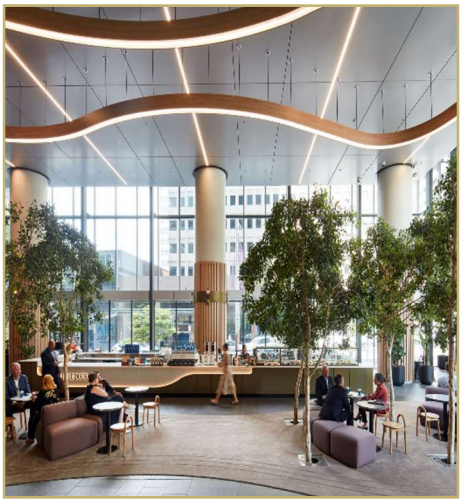


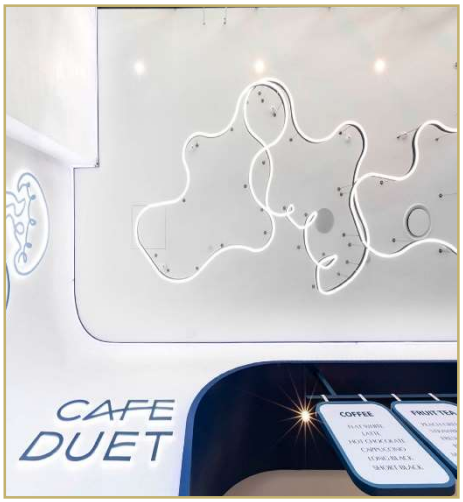

ZUHOUR
GROUP
IDEATE
&
INNOVATE
&
INITIATE

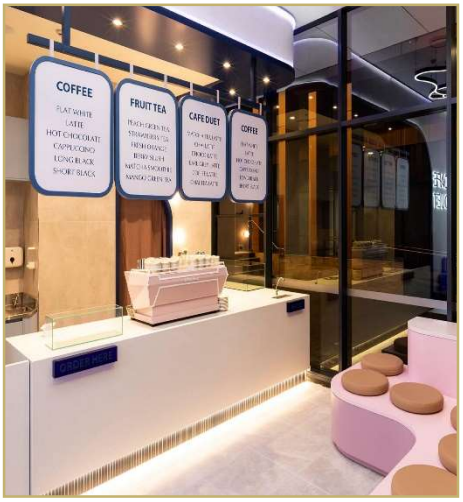


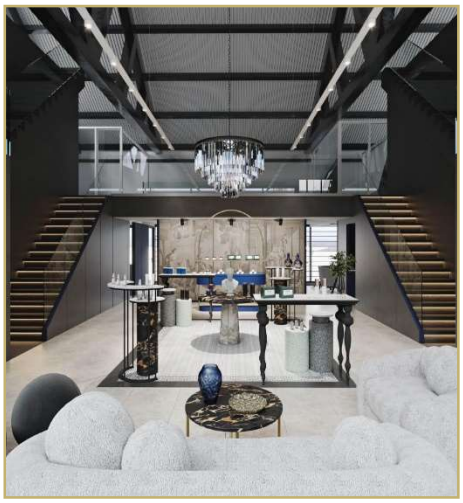







CAFE
DUET


COFFEE
FRUIT TEA
CAFE DUET
COFFEE

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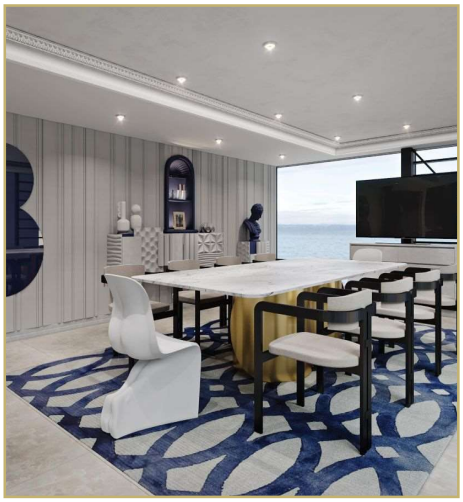
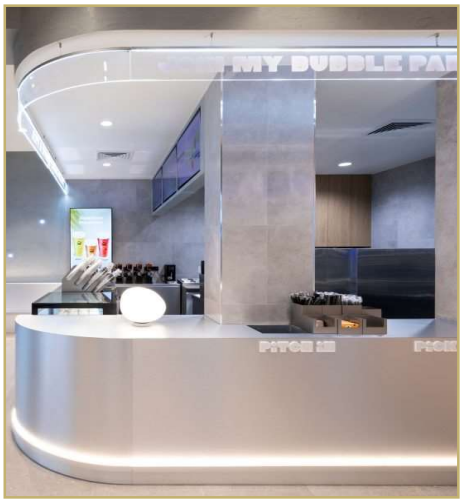
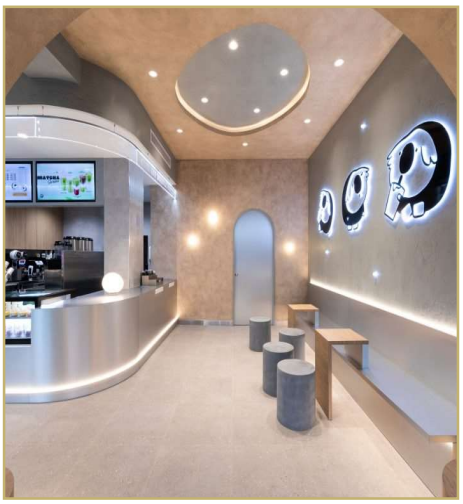






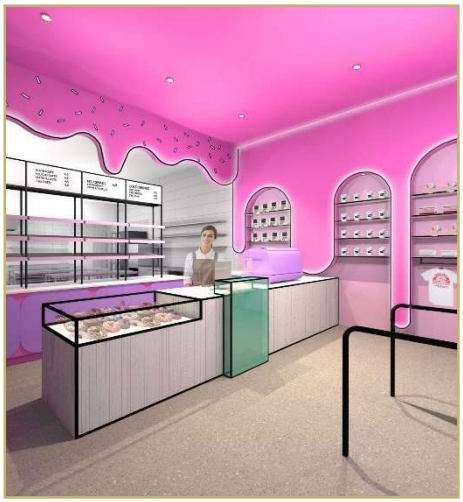



CHOULEE




CHOULEE


OULEE




POUR
SOME
SUGAR


ÉCLAT













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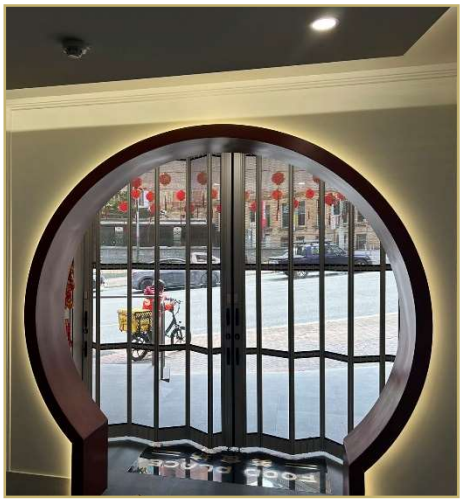
江戸前寿司
EDOMAE SUSHI










FRESH
HOT

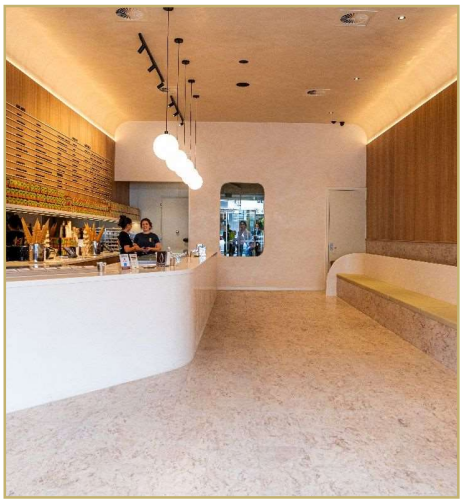



GELATO






GELATO
SORBETS





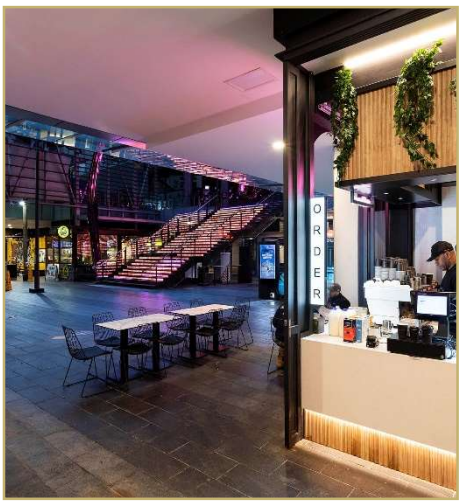



MESSINA


SORBETS
SPECIALS
DRINKS


SCOOPS
GELATO
TUBS
DRINKS



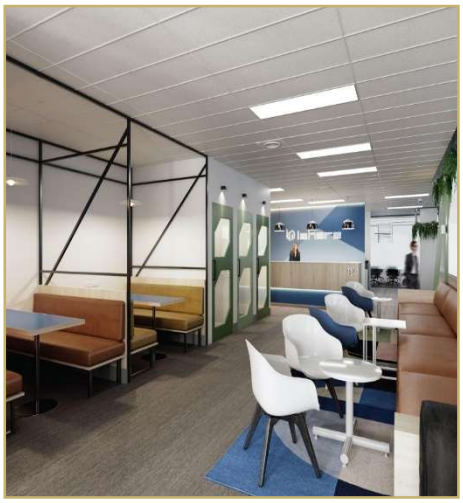

ORDER

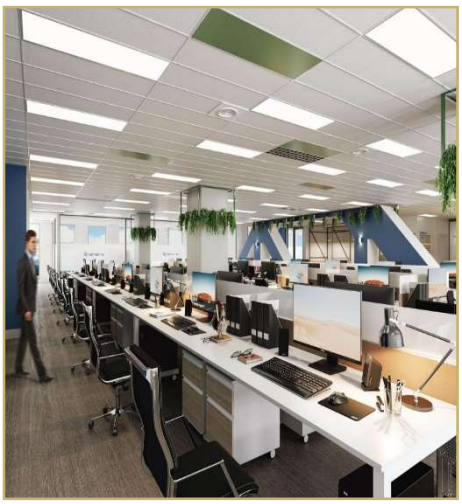


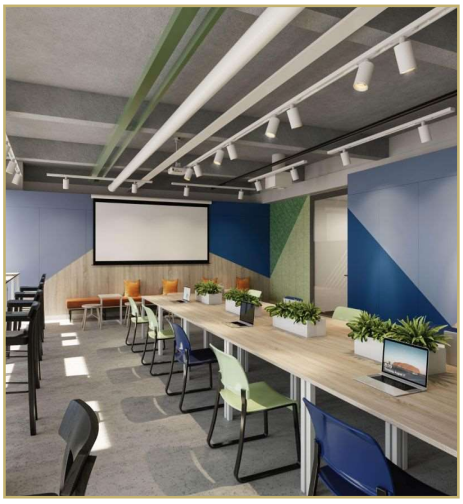

牛肉の部位
イチボ
Ichibo
ナカニク
Nakaniku
トモサンカク
Tomosankaku
マルシン
Maru-shin
サーロイン
Sirloin
ランプ
Rump
ヒレ
Fillet
シャトーブリアン
Chateaubriand
インサイド
Inside
フランク
Flank
カイノミ
Kainomi
モモ
Momo
クリミ
Kurimi





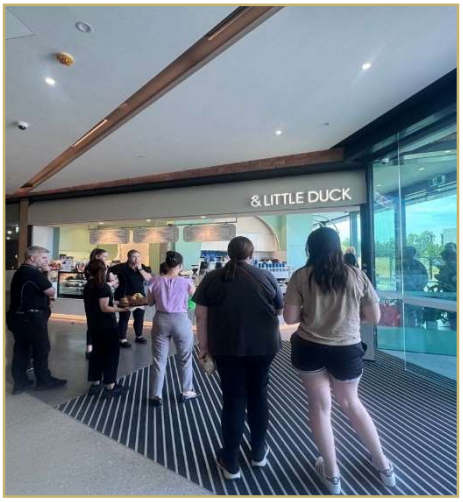




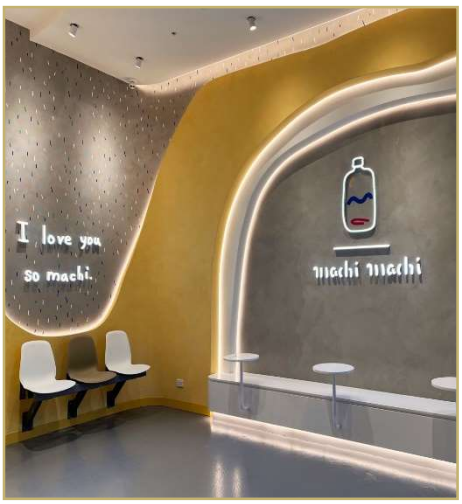







& LITTLE DUCK


I love y
so mach


I love you
so machi.
machi machi



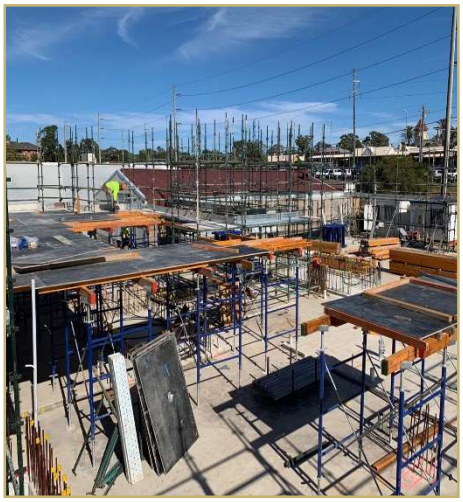


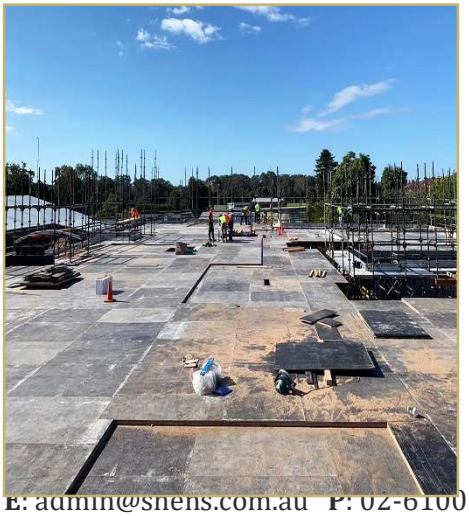
RESIDENTIAL







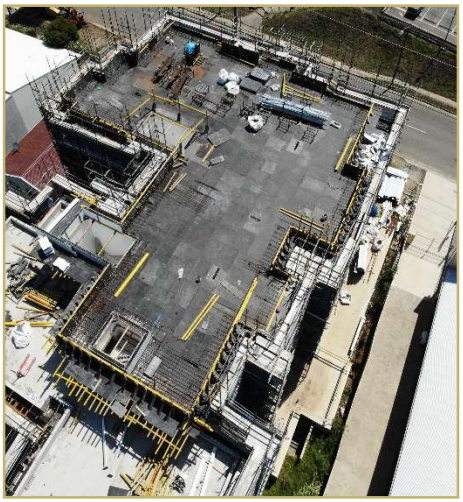




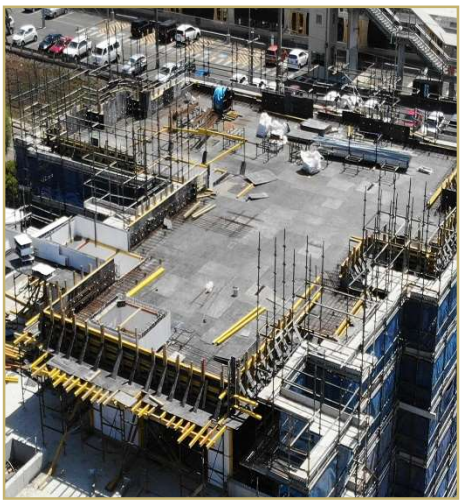










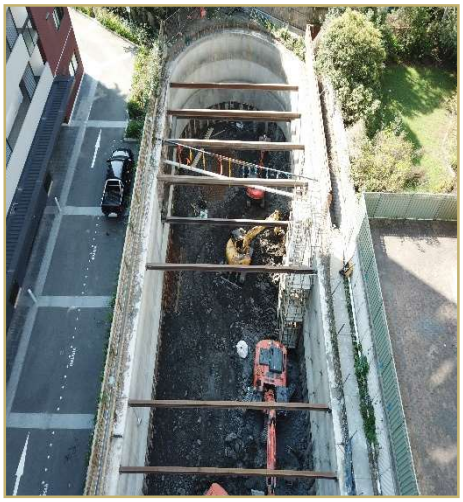


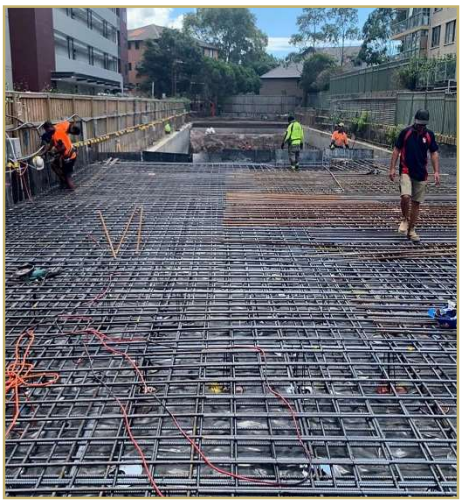


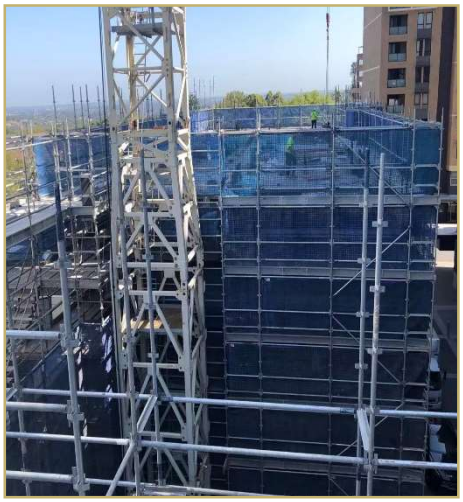






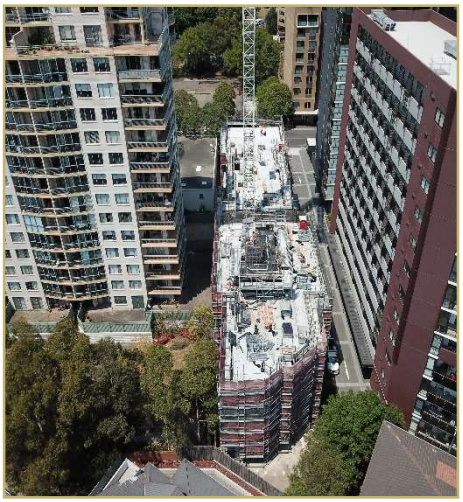


















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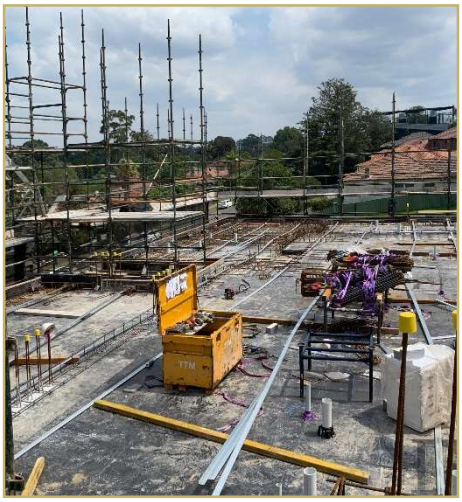


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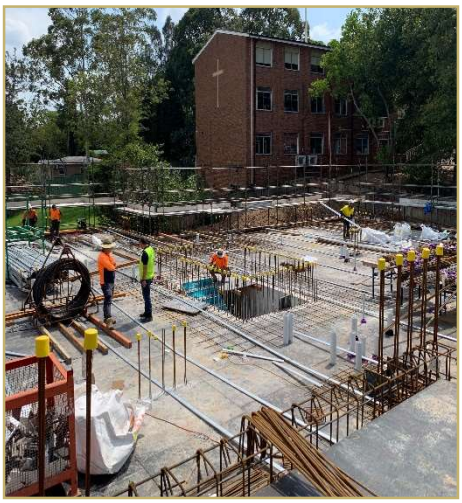

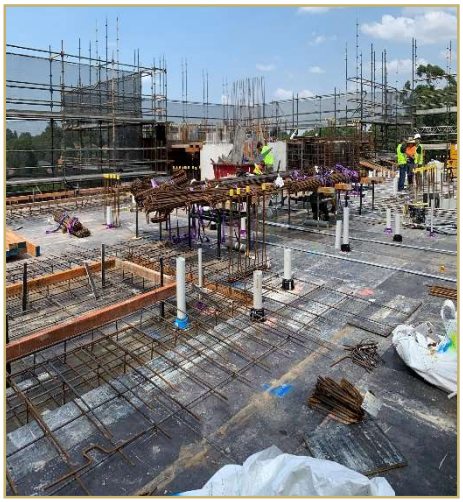

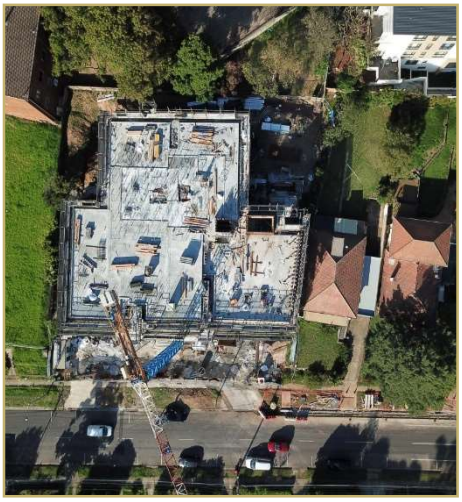

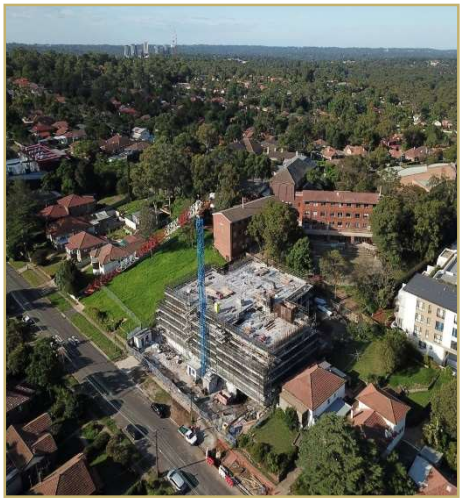









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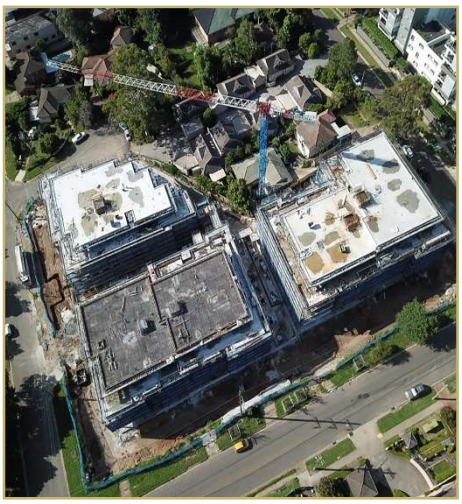









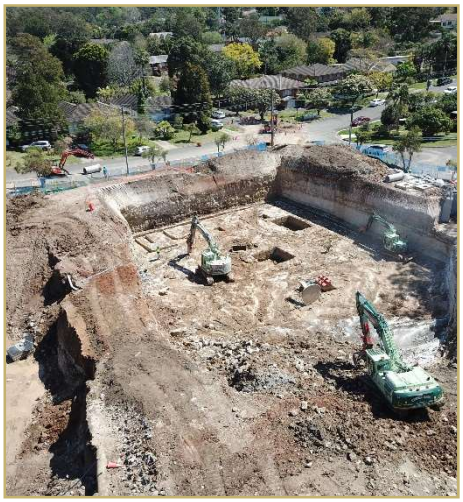

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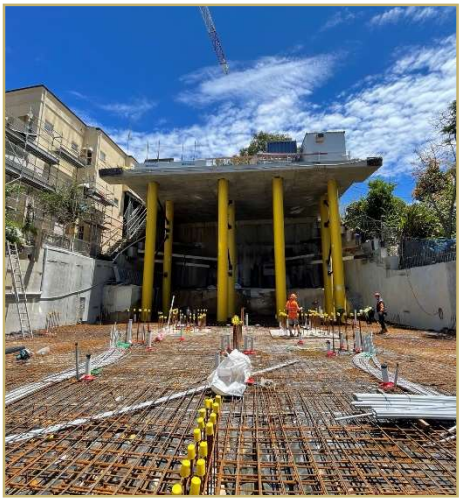











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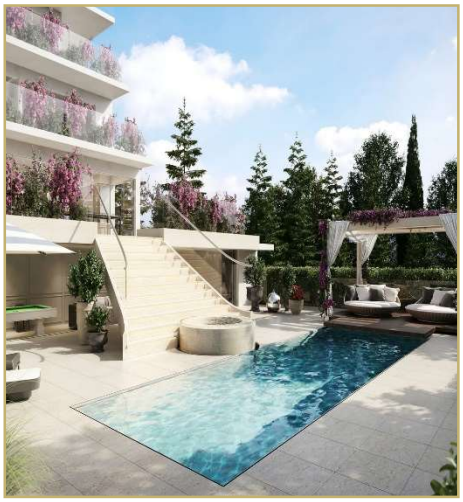



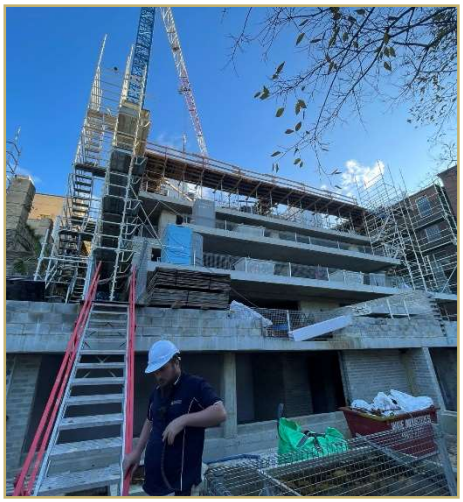





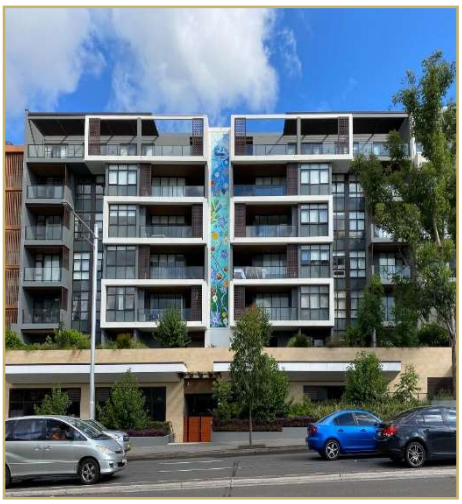



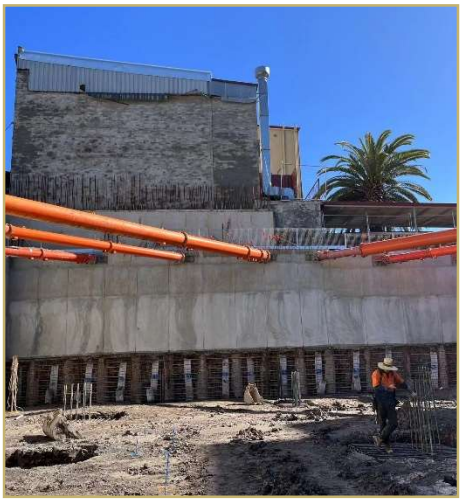

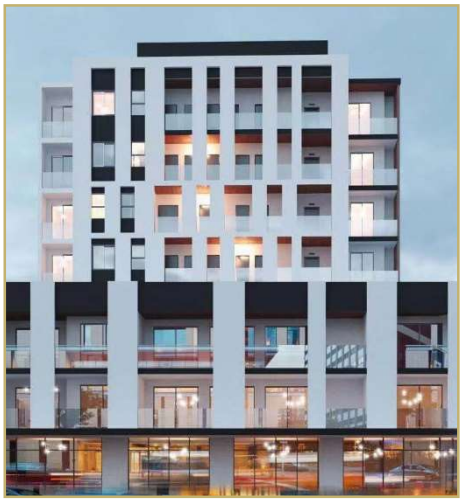





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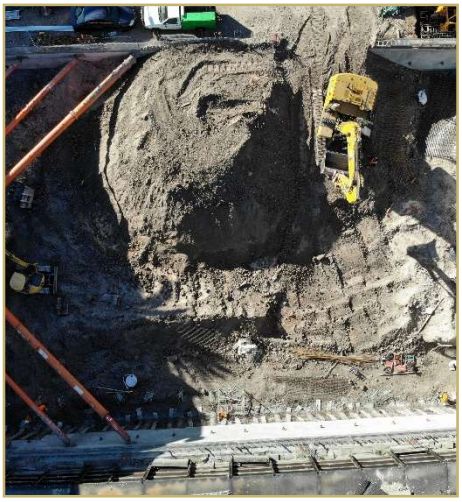

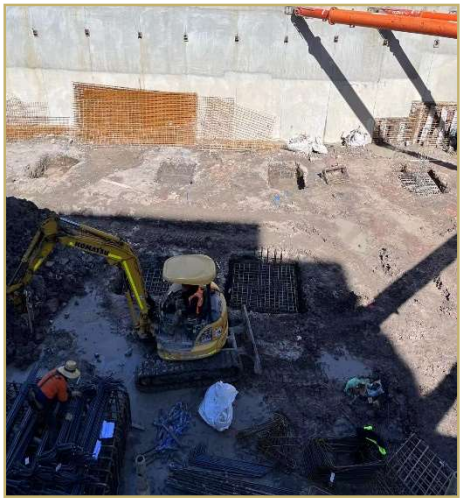



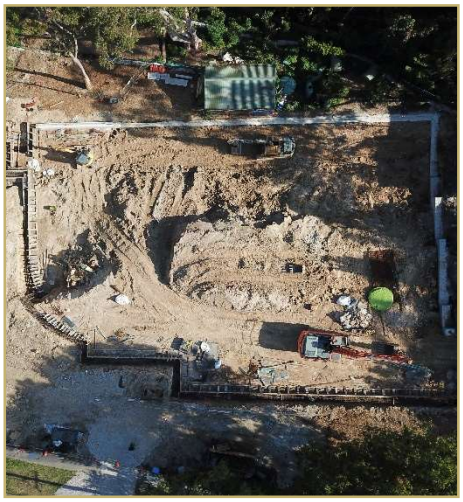





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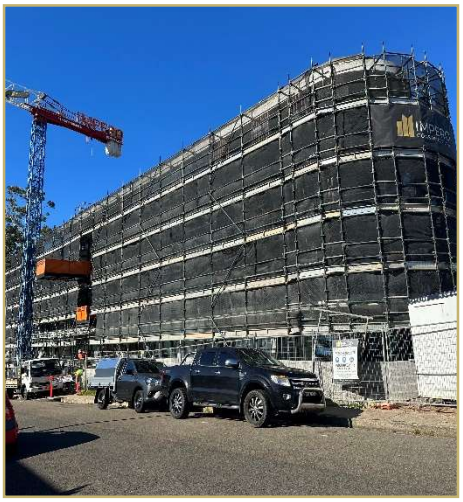





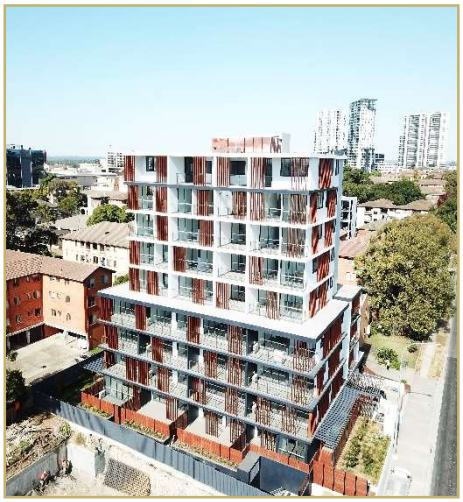

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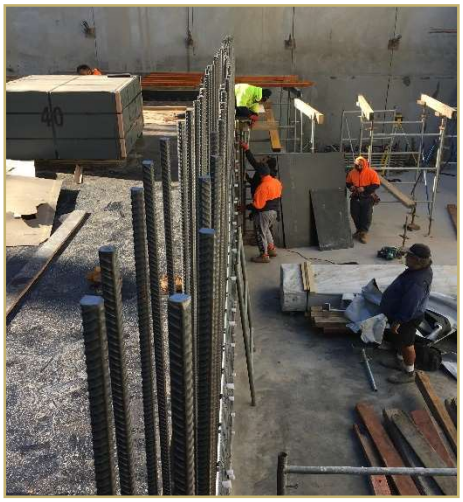



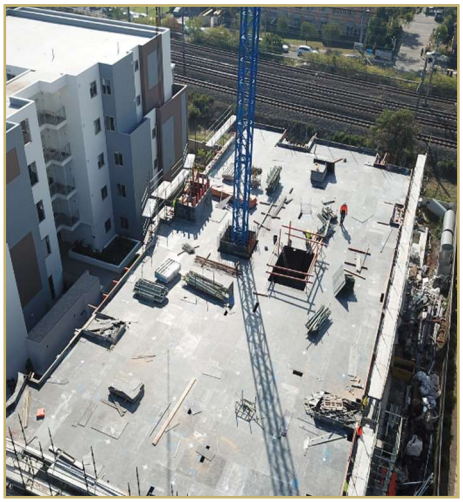

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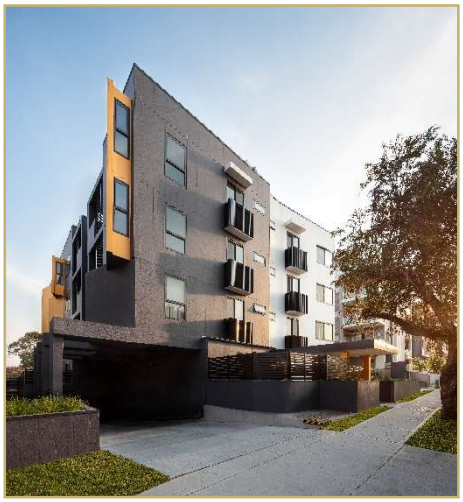

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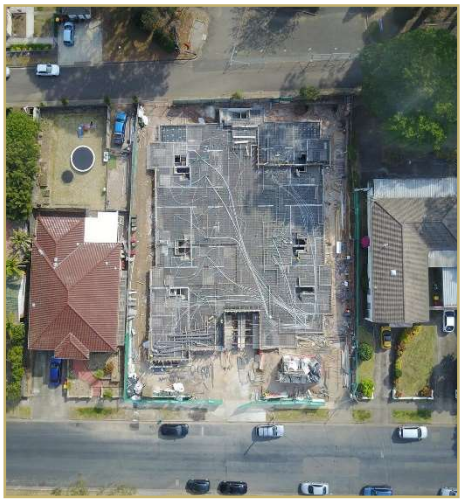

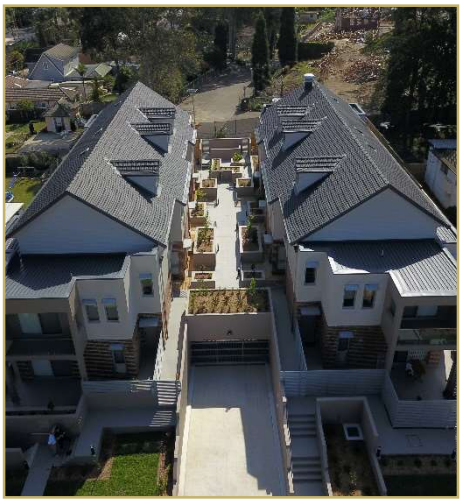



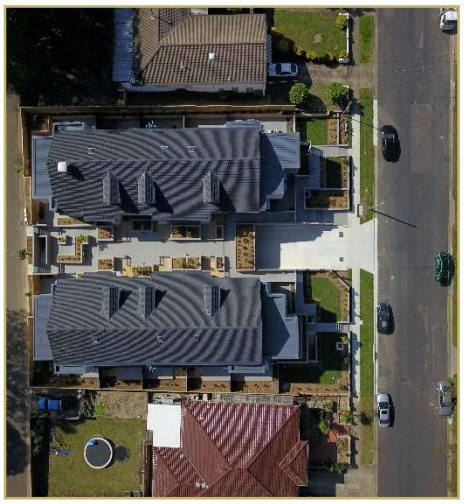







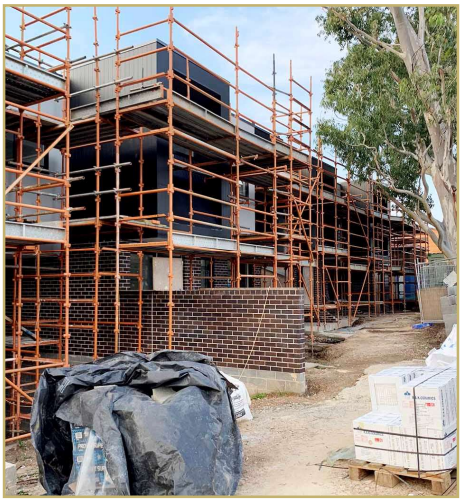

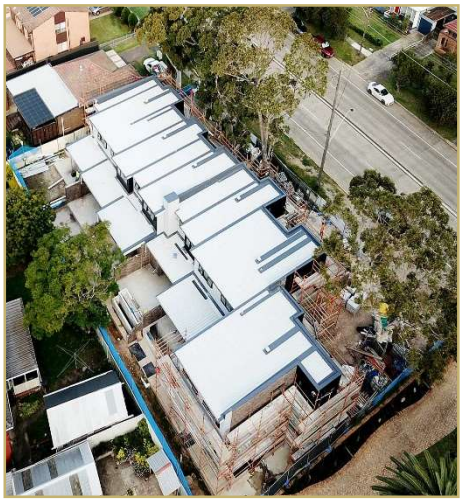





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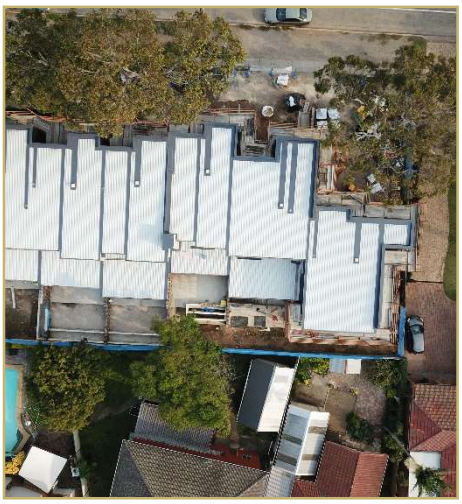

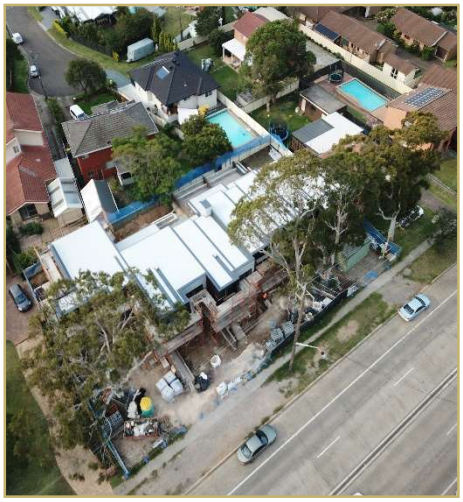









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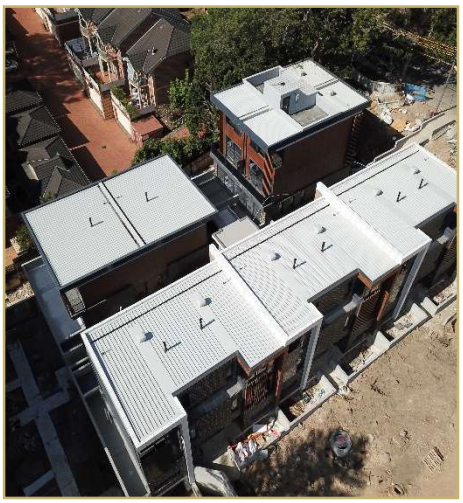



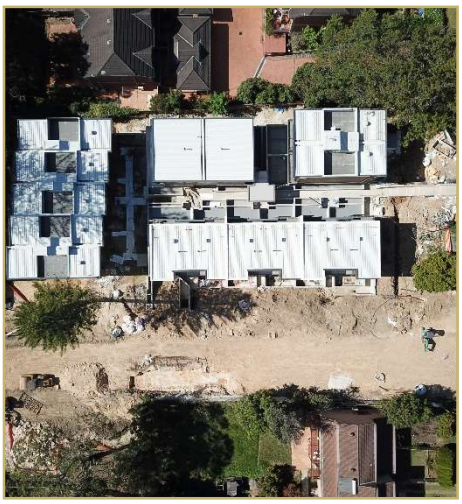

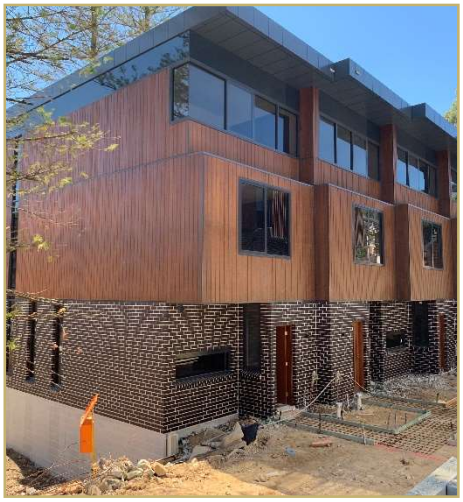





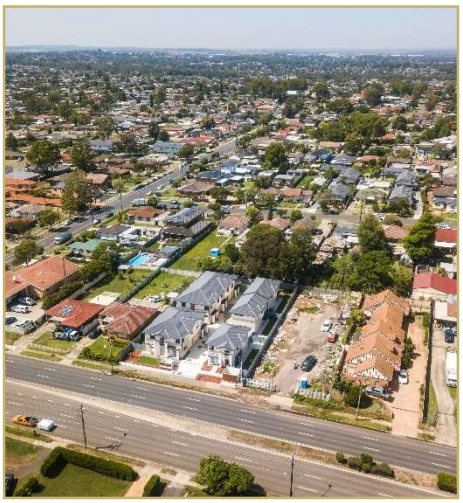



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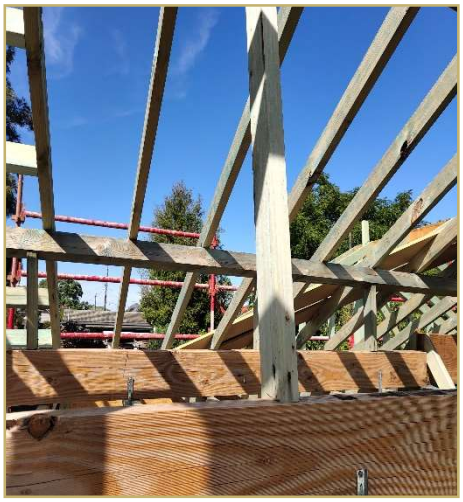

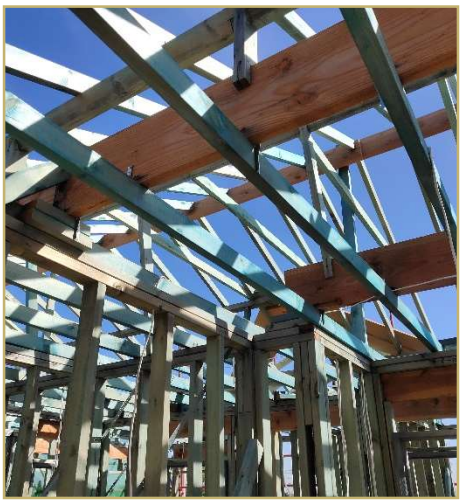



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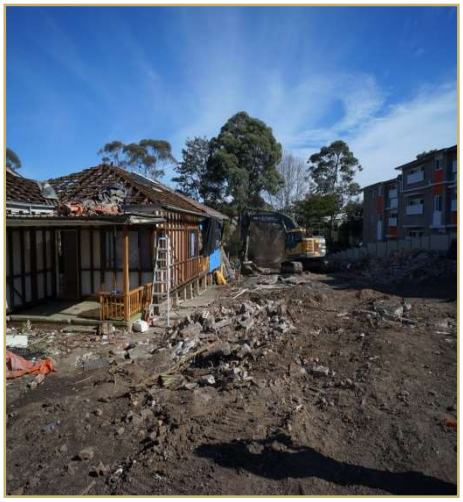





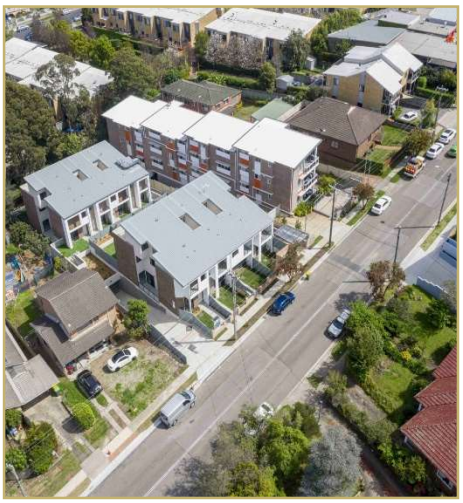









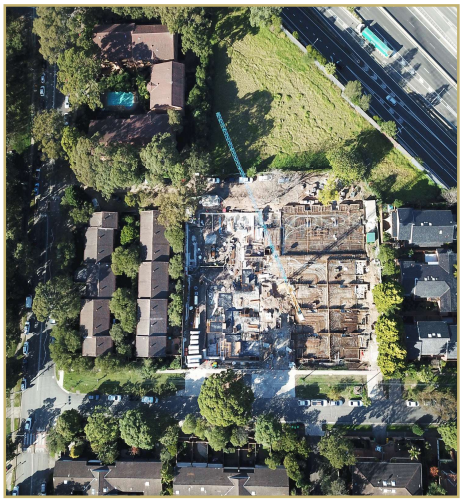



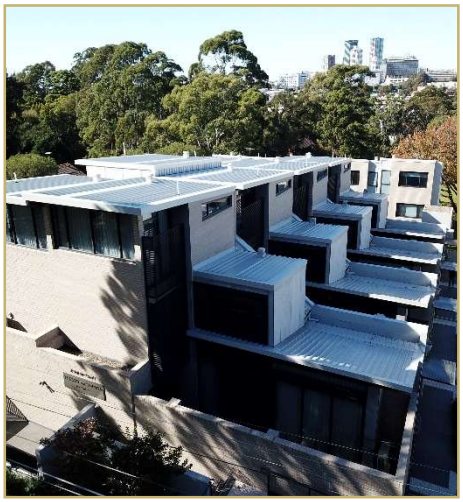

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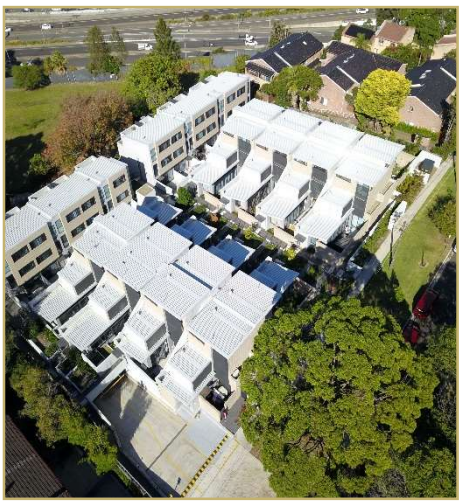

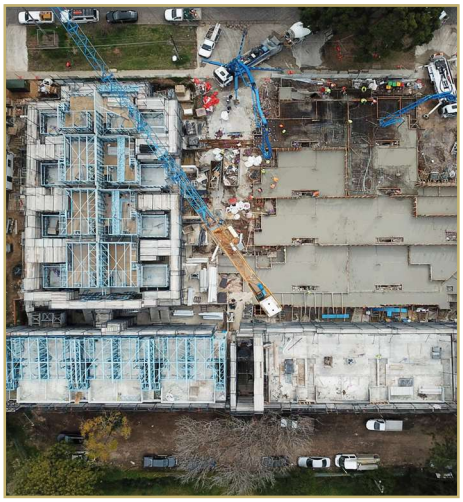

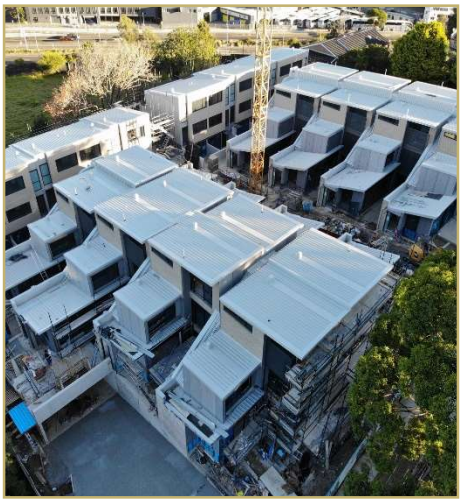

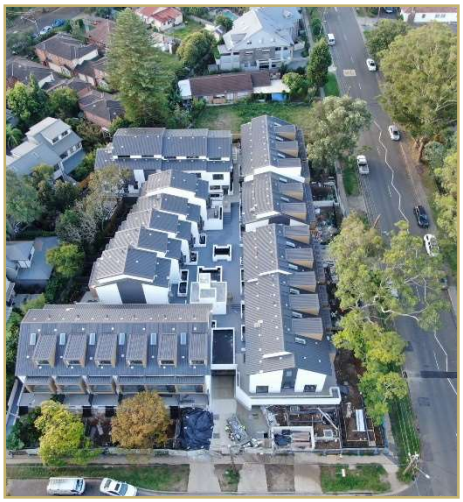

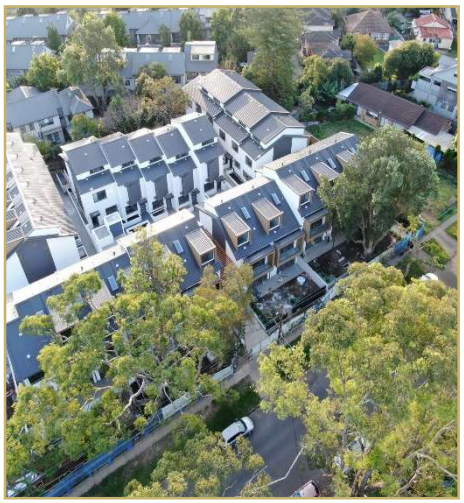







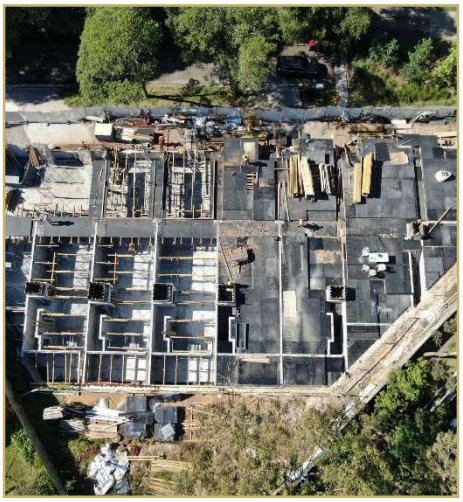






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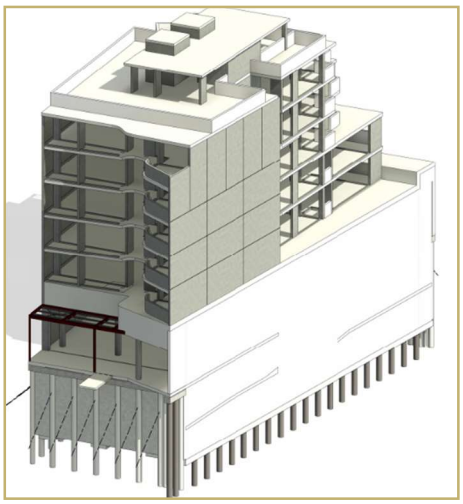
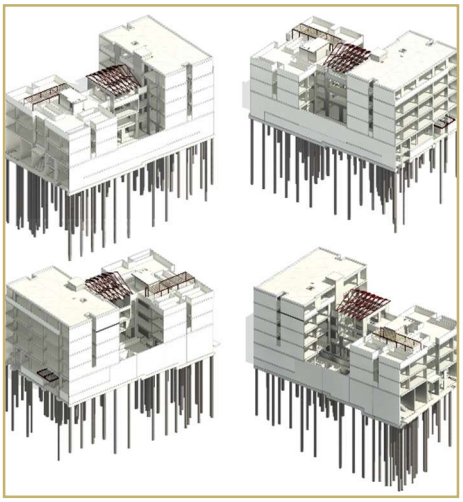




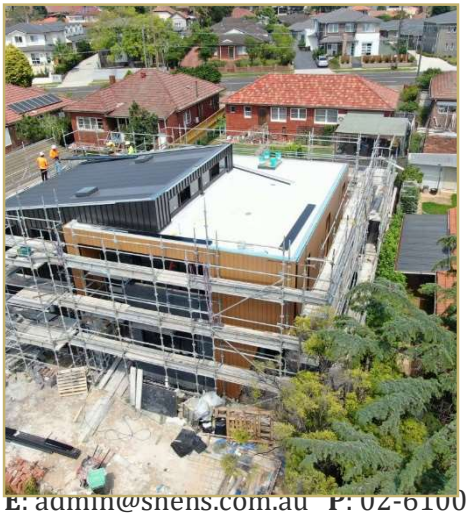
LUXURY HOUSES





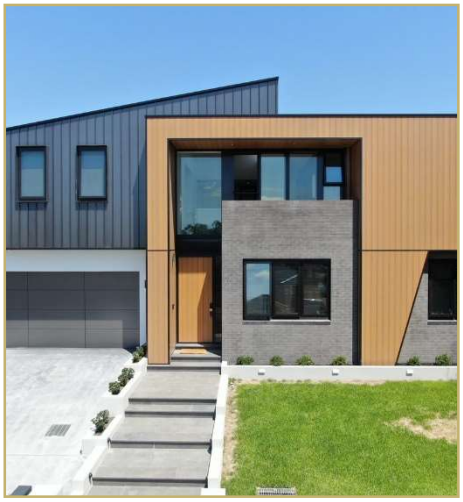






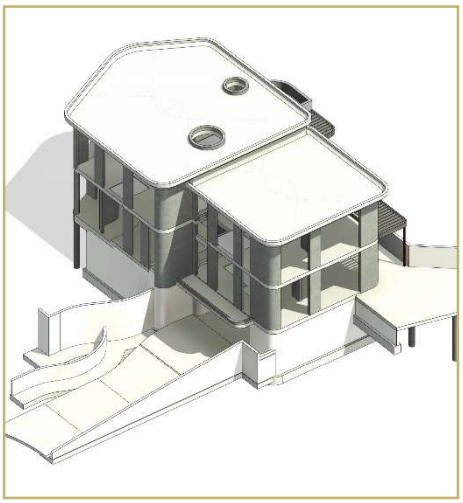














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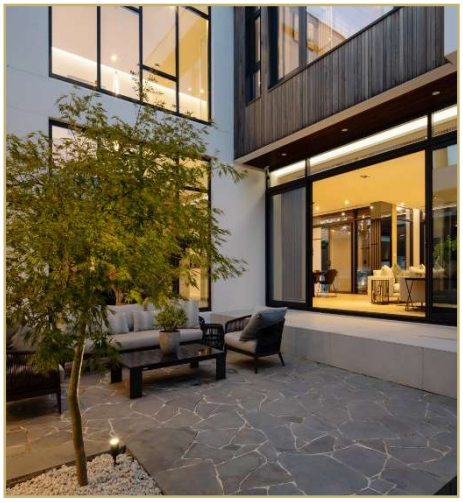

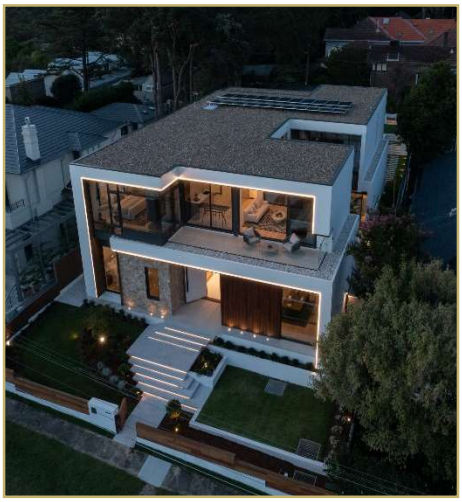

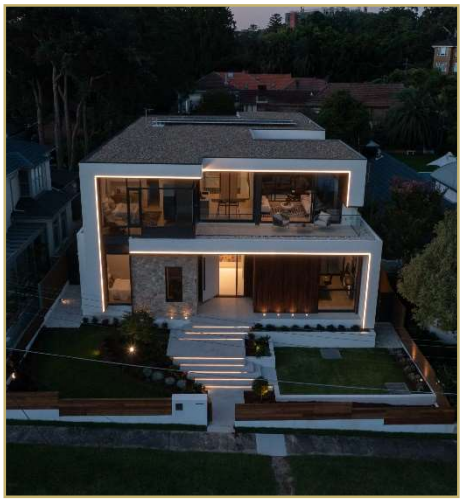





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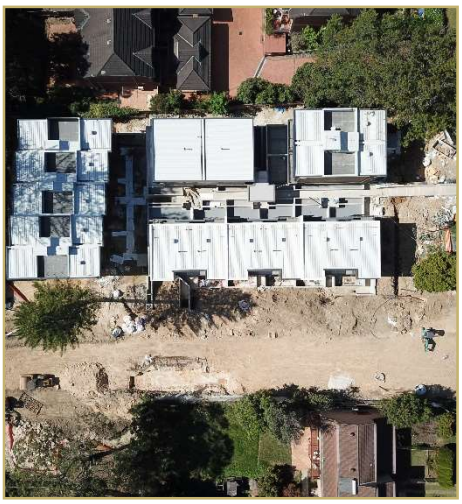

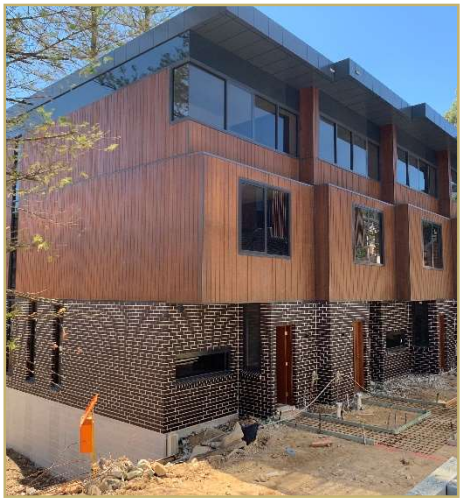



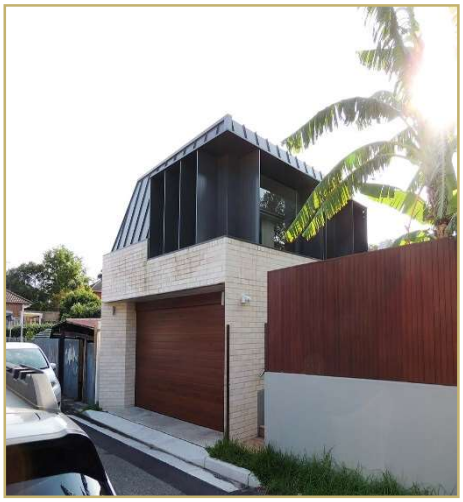

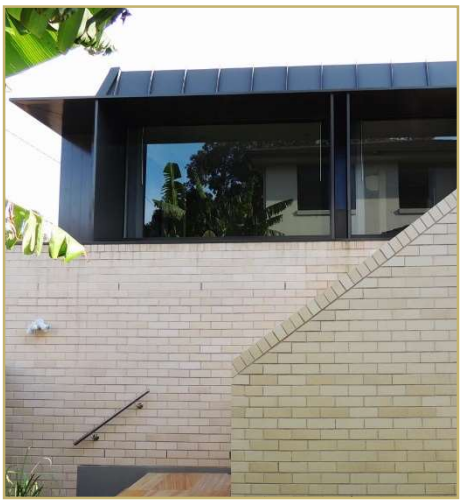



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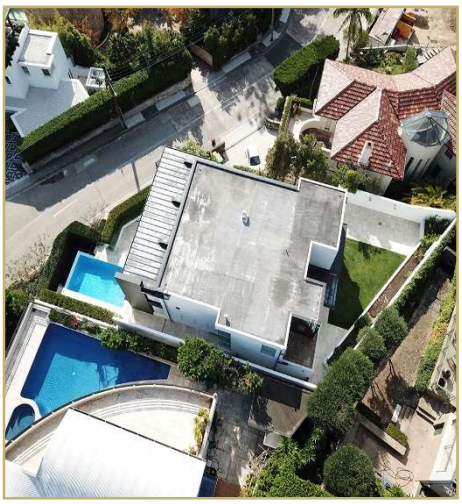
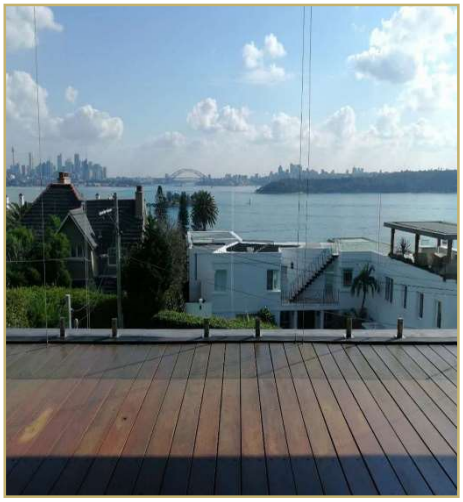
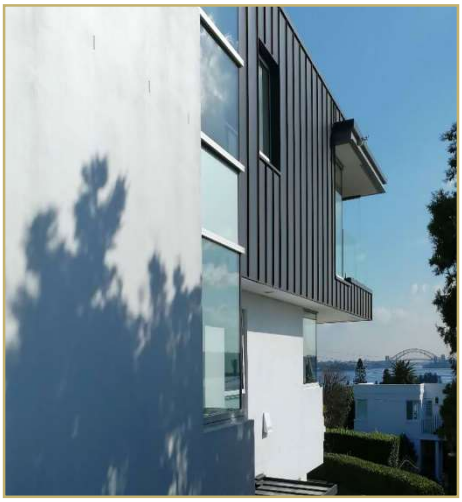
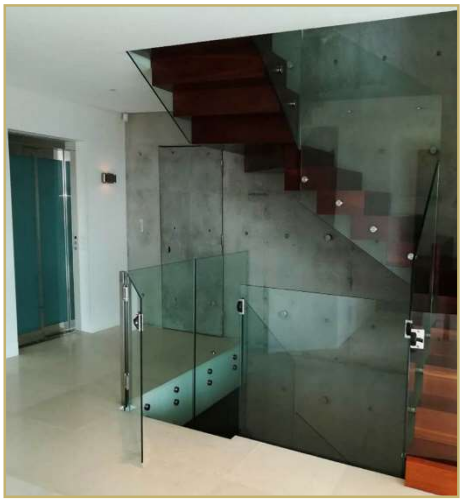


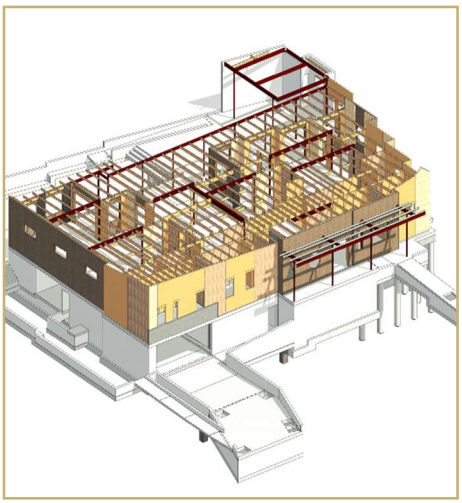








EDUCATIONAL







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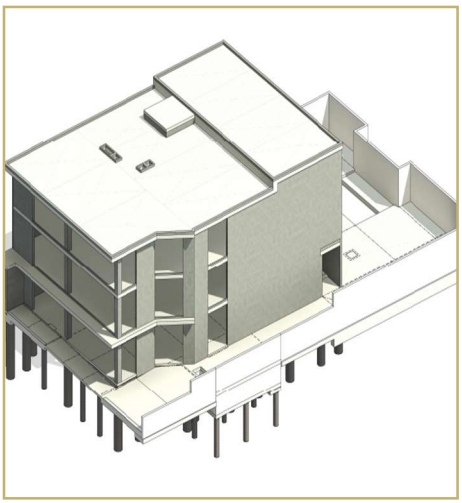

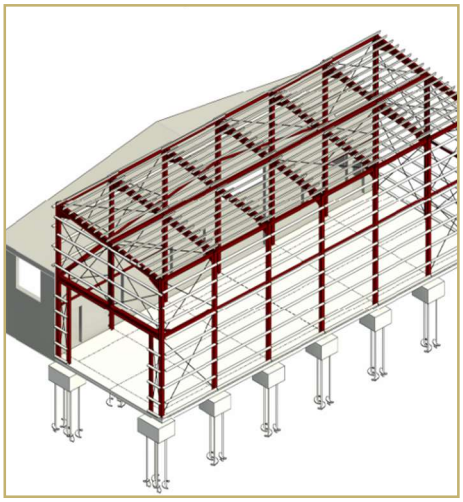



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