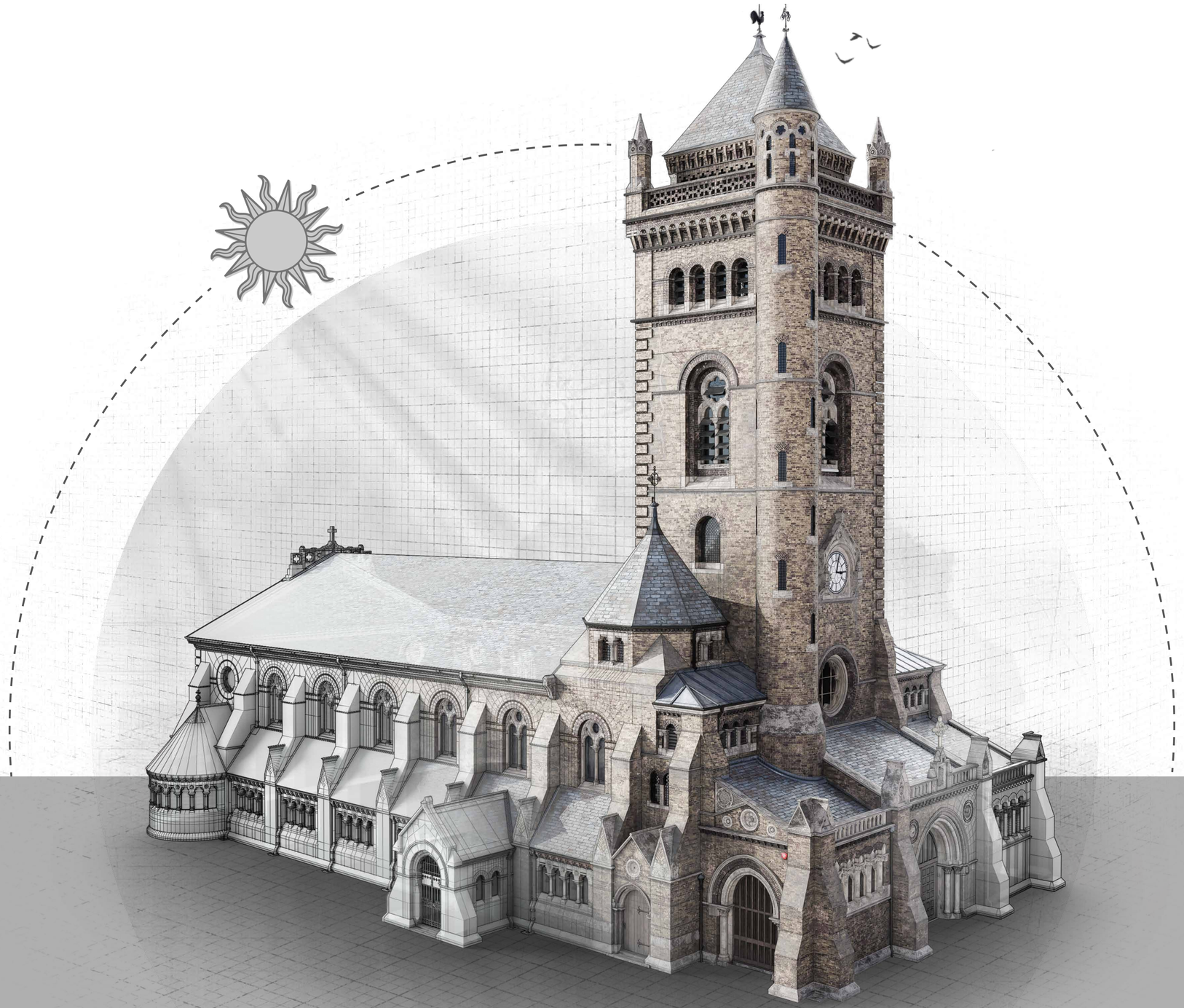


Computer Aided Design

PORTFOLIO

by Vlod

Welcome

Contents

1 About me
Who am I

2 Archviz
3D renders
Self learning through practice

3 Design Approach
Modelling Techniques
Procedural Nodes
Working with AI

4 Work experience
Highlight Projects - 3D renders
Workflow & detail drawings

5 Extras
Additional hobby projects

Volodymyr Goral

3D DESIGNER aka Vlod

CV

03/10/1997
Born in Ukraine
Based in London

About me

Highly efficient, innovative and a well-rounded designer, with high emotional intelligence now seeking a full time opportunity in an industry capitalising on the power of 3D design in today's digital led era to cultivate my CAD skills and grow professionally.

Ethnically Ukrainian I have grown up around the world and was driven from a young age by insatiable curiosity and a natural desire to create and manifest ideas into reality.

Always trying to stay ahead of latest software and technological innovation, sourcing concepts and applications from across different disciplines and fields of inquiry.

With a background in Product Design and experience in Interior Design I am looking to bring my abilities to a new industry to further diversify my skills and learn new practices that will give birth to exciting projects.

Work & experience

Computer Aided Design Engineer 2022 – 2023
SUN STUDIO .London, London

In house designer creating precise drawings and renders for bespoke projects within building regulations.

Carried out independent site surveys at every stage of the design and construction stage on site, working closely with clients, site managers and architects.

Design Development Engineer 2019 – 2022
Builders By Design Limited, London

Working with a versatile multi-disciplinary design and construction company, executing large scale projects start to finish within high end residential neighborhoods in London.

Extensive experience surveying properties with a 3D scanner and recreating them in 3D to produce stunning renders to sell the project and technical drawings for the construction process.

Education

2019 BSc in Product Design — University of Sussex
First-Class Honours | Awarded best engineered project

Skills

- Parametric Modelling
- 3D Surveys & Scans
- Sketching & Prototyping
- Photorealistic Rendering
- Procedural Node Design
- AI Prompt Engineering
- Technical Drawing
- Post Processing & Compositing

Software

Interests

Languages

Fluent — English | Ukrainian | Russian

Limited Working Proficiency — Spanish

Contact me

07438025110
v.goral@outlook.com
Volodymyr Goral
vlod-designs.com

Archviz

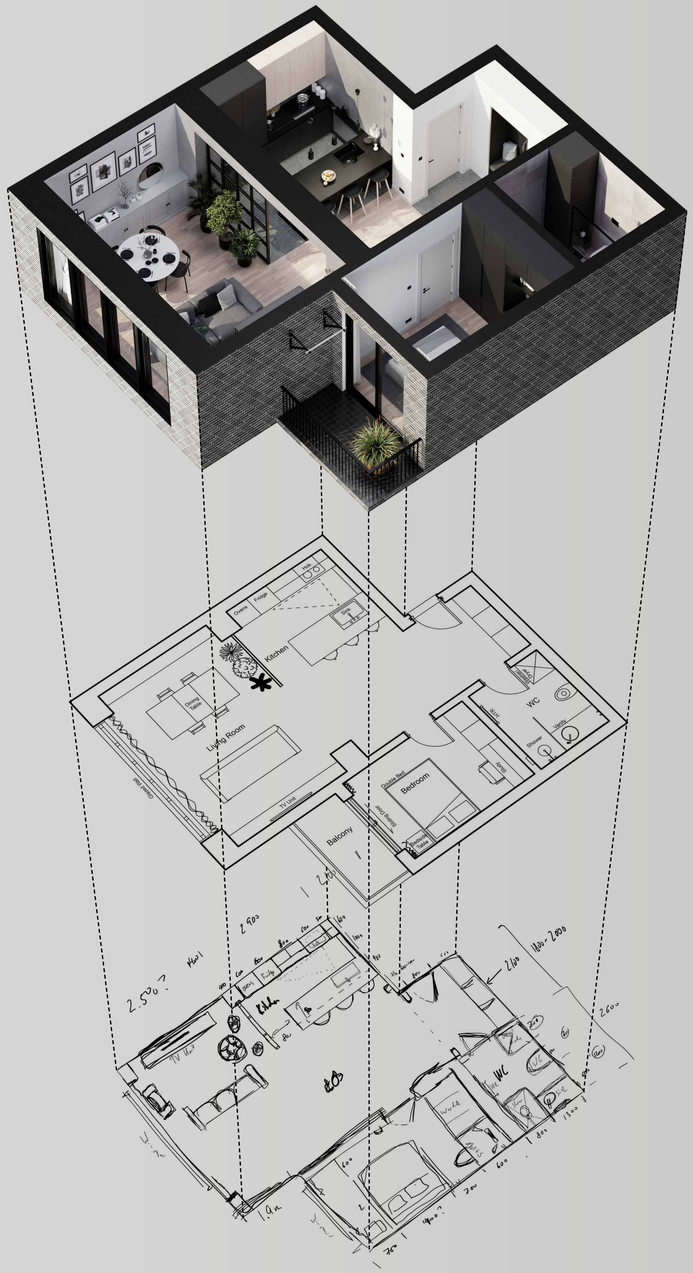
God is in the details

Ludwig Mies van der Rohe

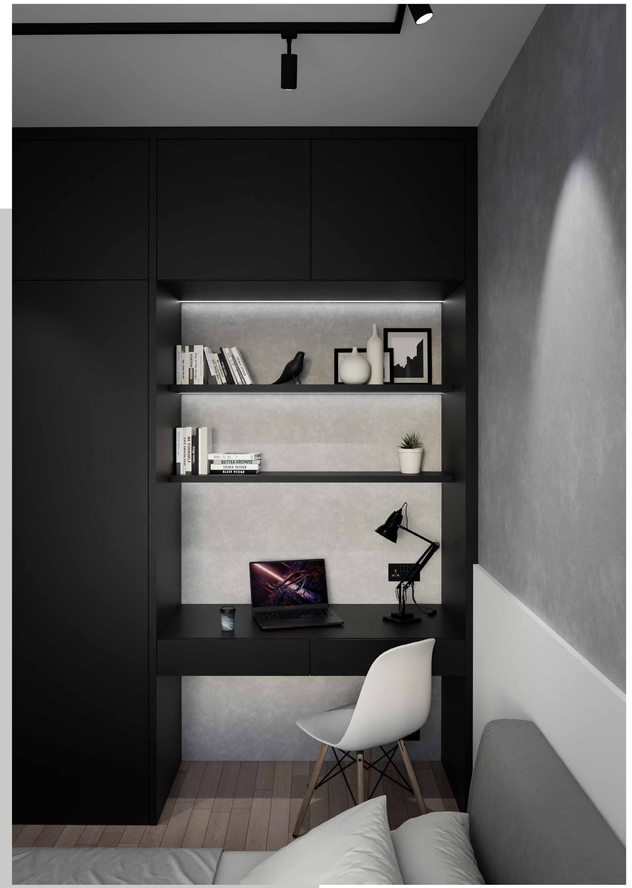
Highlight of personal projects tailored to explore the architectural visualisation sphere

2

Design for modern single bedroom flat



VANITY FAIR PORTRAITS



LOW POLY

ISO

Project rendered with real time engine
Lighting and shadows baked into project

Useful for mock ups and quick updates
efficient for rendering out multiple angles,
walkthroughs and animations

Self learning photorealism

Recreating real life scenes in 3D through references to learn how to bring life to renders

Studying Light

photocredits to: Zenkiperch

Composition

photocredits to: These Four Walls blog

Form

Less is more
only when more
is too much
Frank Lloyd Wright

Every asset in project displayed has been modeled from scratch using polygon based editing

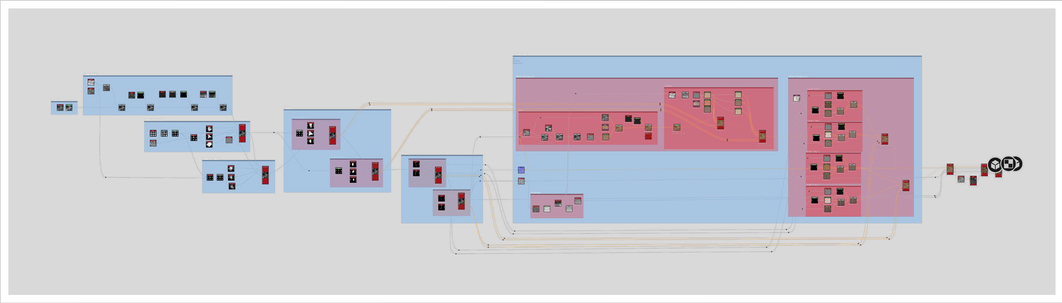
Design Approach

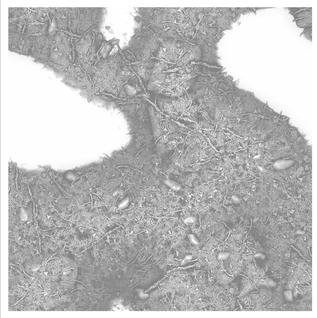
Showcasing different modelling techniques and practices

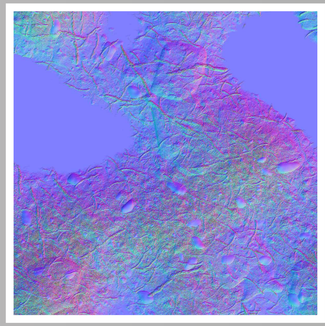
3

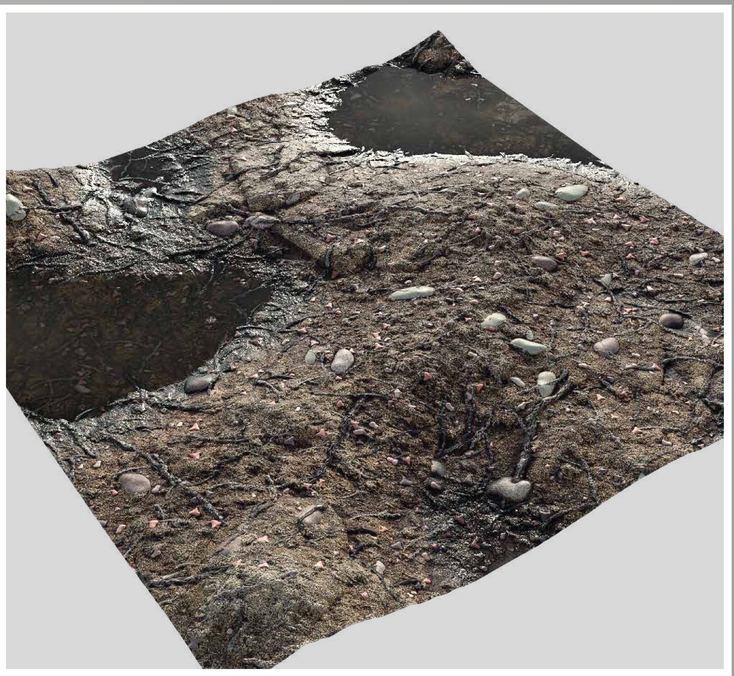
Succesful projects make use of compositing- mixing several different techniqes and software together to convey the idea clearly and aesthetically.

Simple block outlines mixed with a sketch overlay and real time rendering provide a quick prototyping solution to visualise ideas. Easy to update and develop to clients specs.







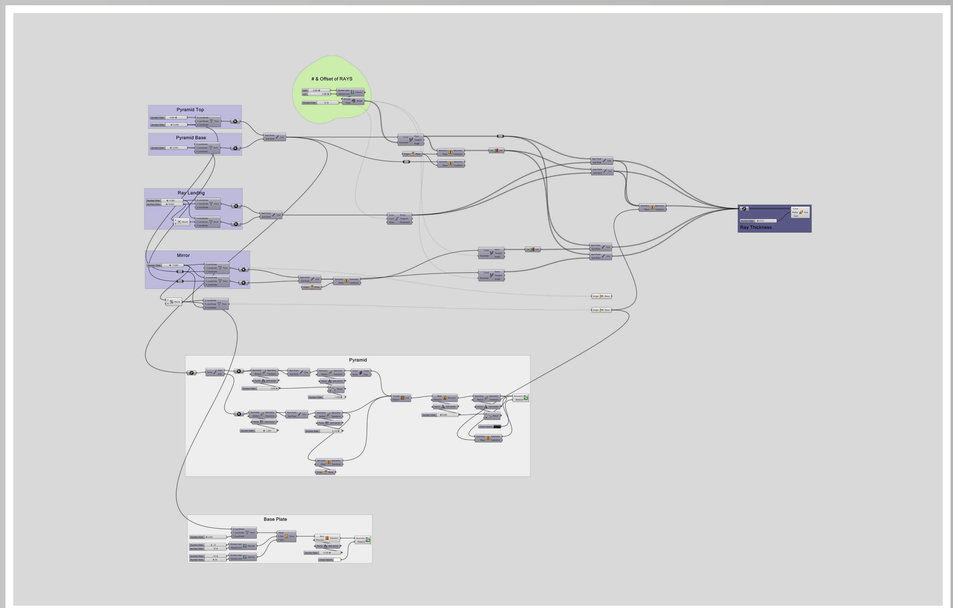


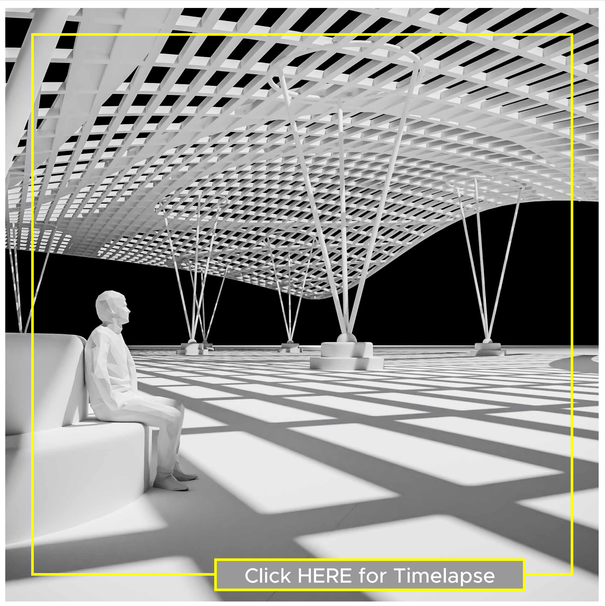
Nodes &
Procedural Design

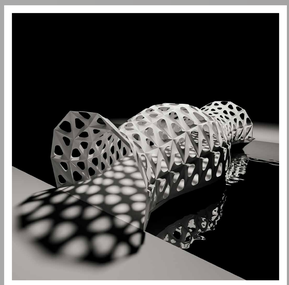
Substance Designer
- Custom PBR textures created from scratch with nodes provide ability to replicate any reference

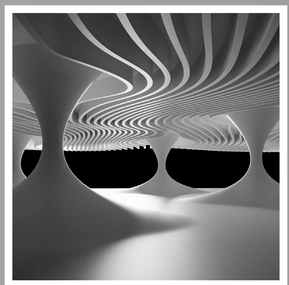
Grasshopper 3D
- Generate parametric designs useful for mock ups and facade designs in architecture

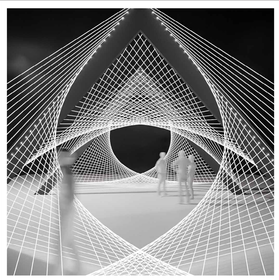
Blender
- Material shading
- Geometry nodes
- VFX & Post Processing











AI

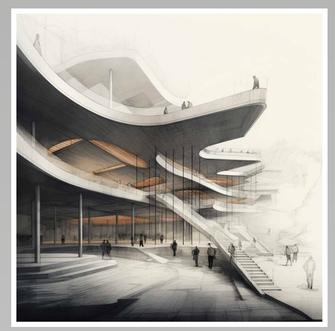
Text-to-image AI models, like Midjourney, use advanced machine learning techniques to interpret and translate the semantics of text known as “prompts” into visual elements, producing corresponding images that reflect the described content.

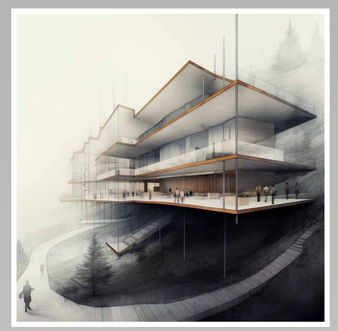
Completed courses by **European School of Architecture** on:
- Artificial Intelligence in Architecture
- Architectural Course in Project Presentation

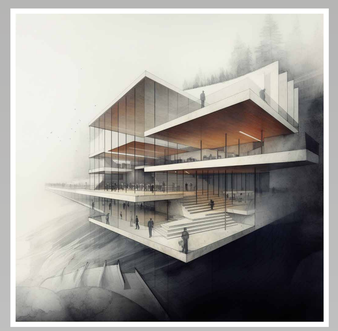
/imagine prompt:

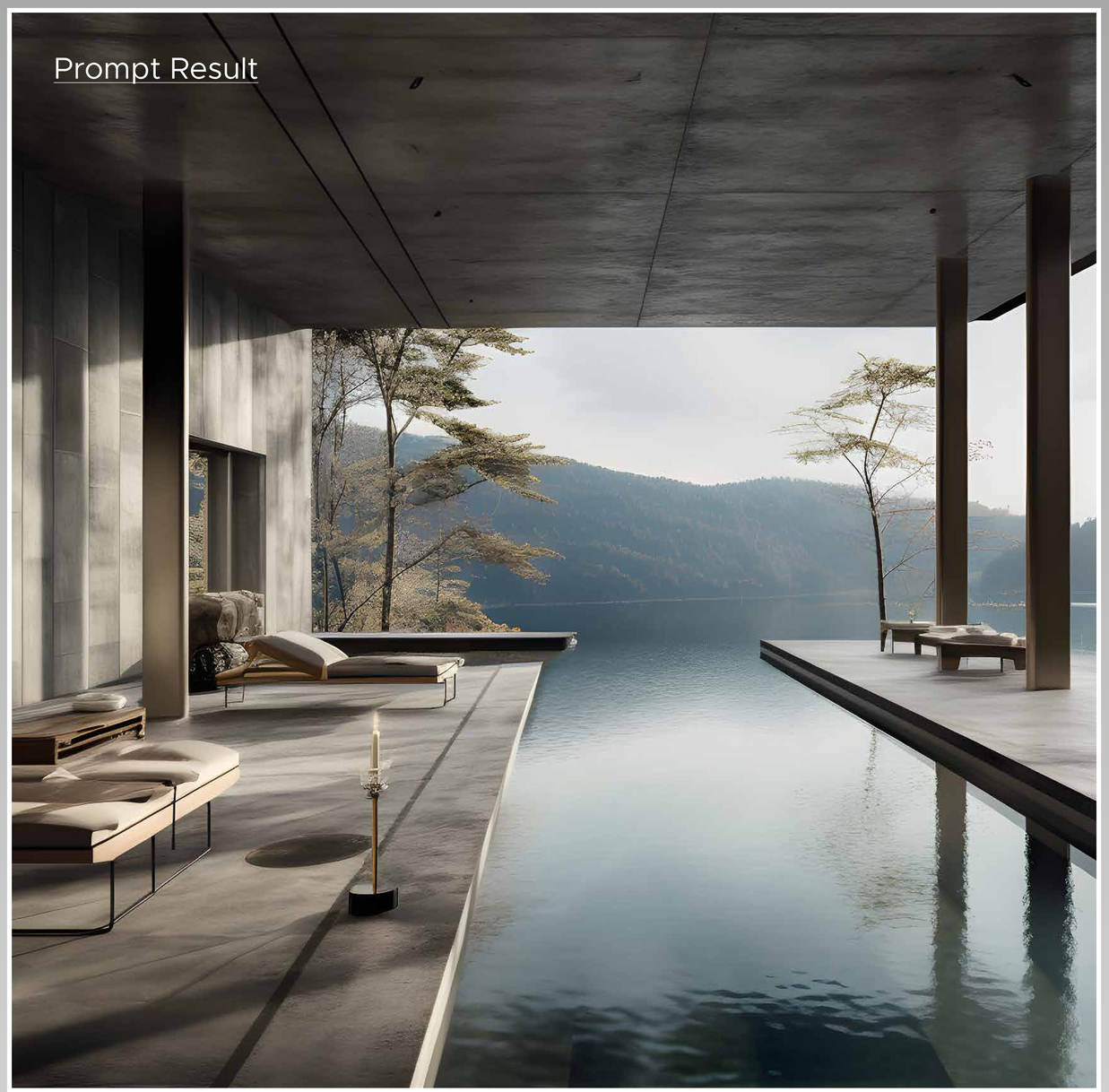
Architectural Render, Brutalist Health Resort, high ceiling, pools, mountains with lake reflection, one point perspective, field of view, --v 6.0 --ar 1:1 --s 150

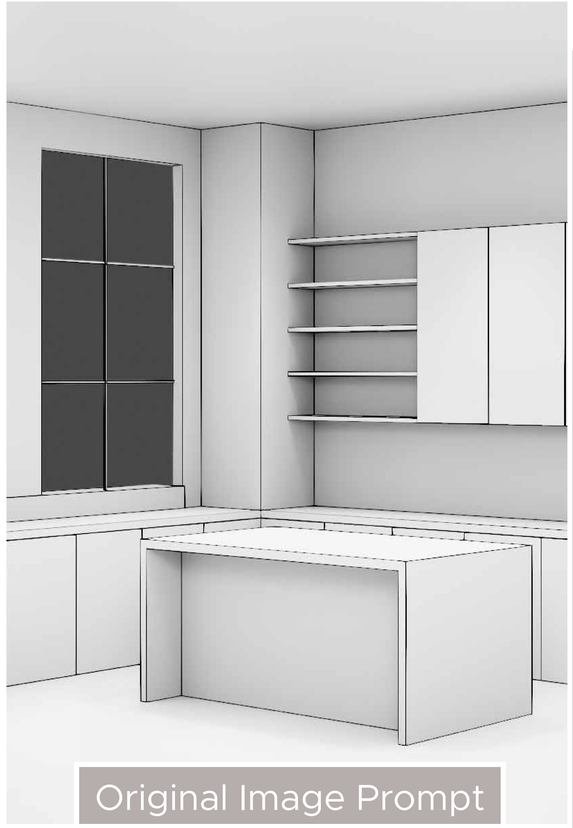
Part 1 - Describe Drawing | Part 2 - Add Specific Elements | Part 3 - Define Image | Part 4 - Midjourney Settings

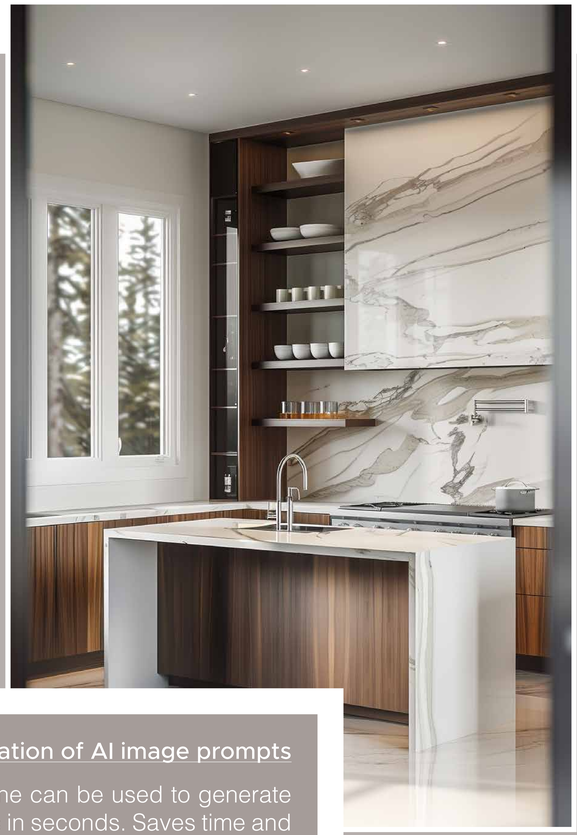






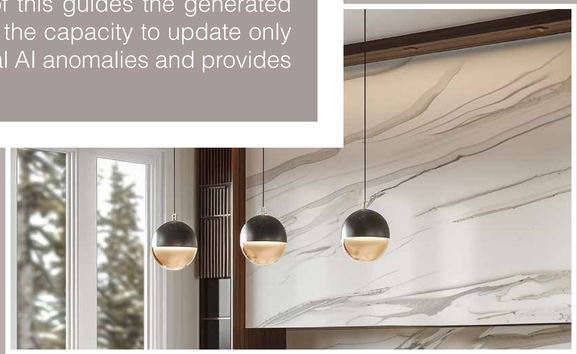






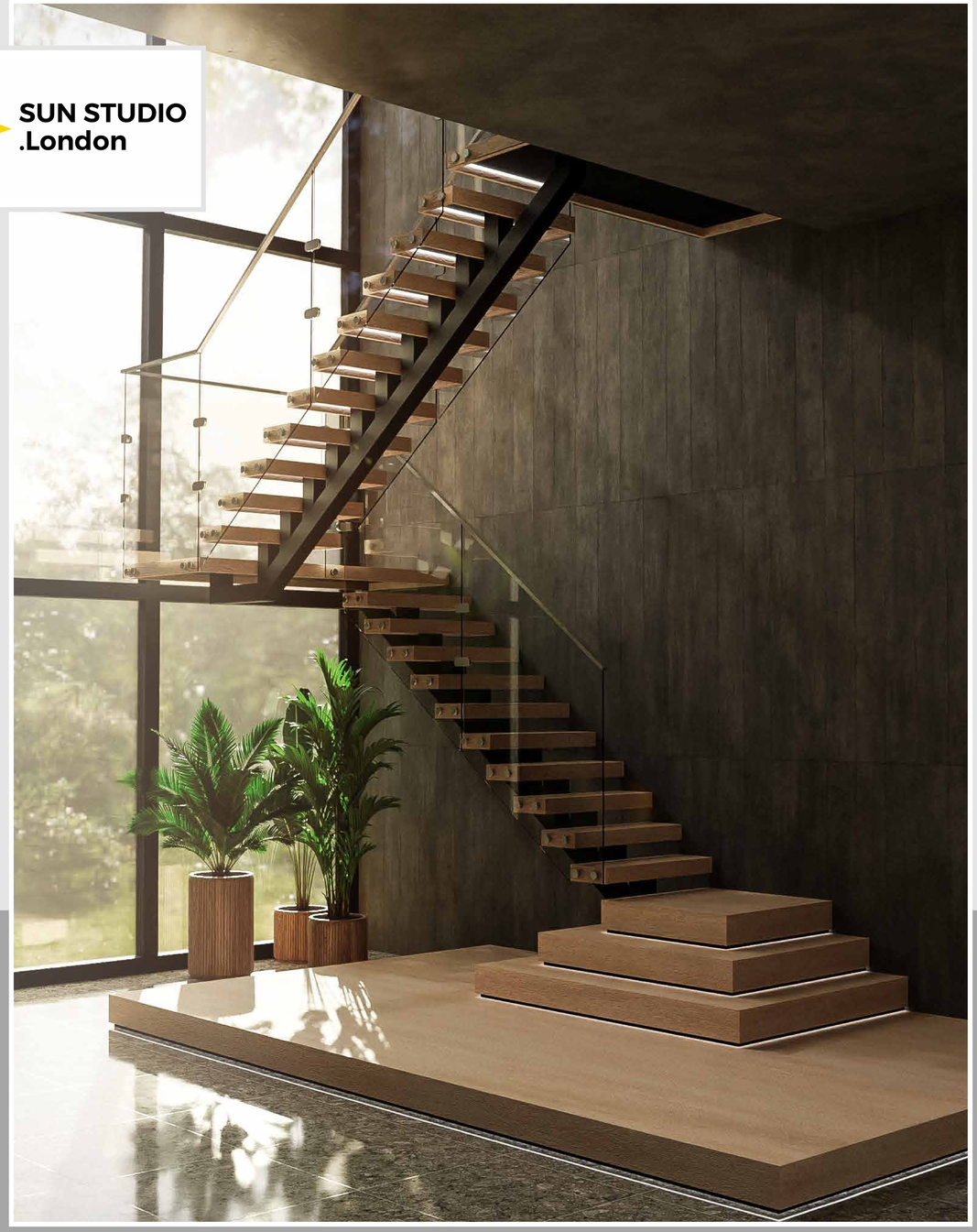
Case Study - Practical Application of AI image prompts

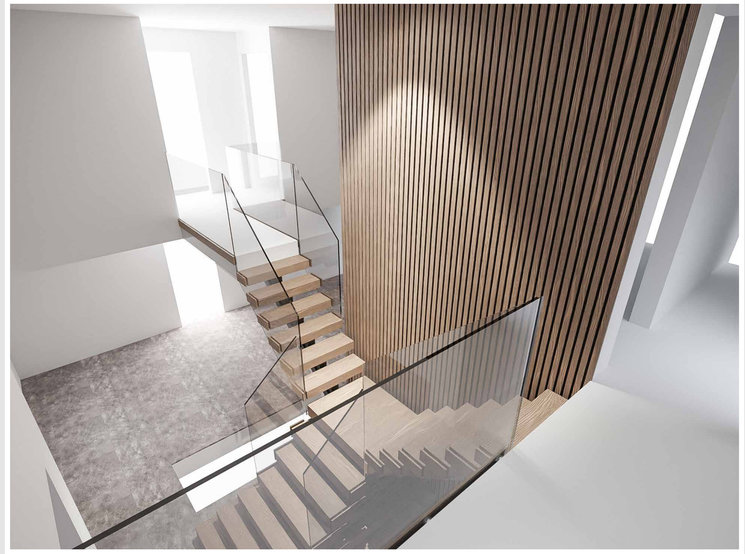
Any sketch or simple CAD scene can be used to generate dozens of diverse visualisations in seconds. Saves time and effort in the ideation and development stage of any project. Adding text prompts on tops of this guides the generated image in any style desired and the capacity to update only certain areas allows to fix typical AI anomalies and provides endless customisation

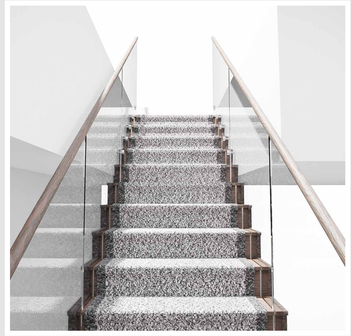


Work experience

SUN STUDIO
.London







CAD Engineer

Valuable experience working tightly under building regulations for projects requiring high precision planning and engineering along with small margin for tolerance. Surveys conducted with Leica 3D Disto. Key software include Rhino, Autocad, Blender & Photoshop. Managing high stake projects like commercial helical stairs in range of £120,000 have built precise surveying and design skills and a pension for meticulous quality control to avoid mistakes and ensure design is delivered on time per clients intent.

More Renders & Production drawings available under request

BUILDERS BY DESIGN GROUP

Design and Development Engineer

Key Responsibilities:

- Carry out 3D Scans, produce 3D models, deliver CAD drawings and renders to a high standard for all Design and Build / Joinery projects from written, sketched or verbal specifications.

- Expand knowledge and understanding of the construction sector practices, methodologies and detailing. Expand library of 3D assets and 2D details to reuse in future projects where applicable.

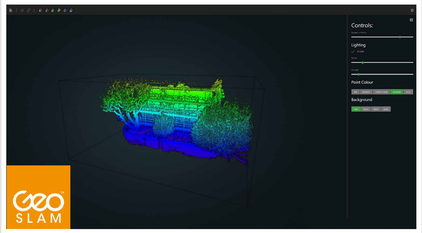
- Execute projects timely and inform management if deadlines cannot be met or where design compatibility problems exist with recommendations for creative solutions.

- Gain further knowledge and understanding for the capabilities of integrating external software into existing BBD workflows.

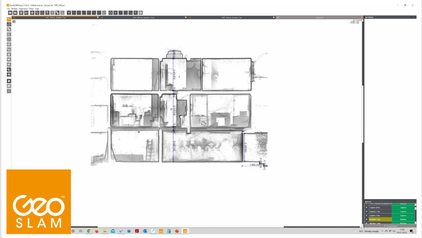
Worked with BBD for 3.5 years and produced numerous designs, renders and drawings for joinery, kitchens, bathrooms, bedrooms as well as large scale property renovations all in line with building regs.

Please inquire to see more examples of particular work

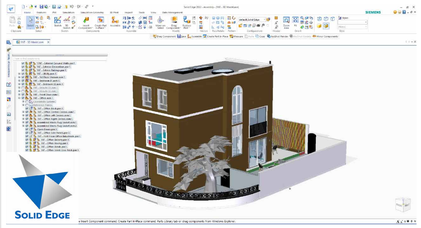
Property scanned



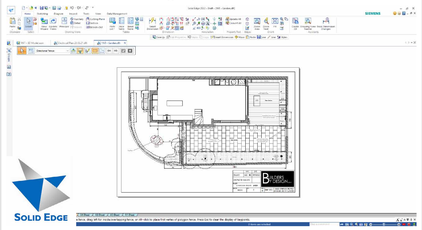
Project measurements taken from scan



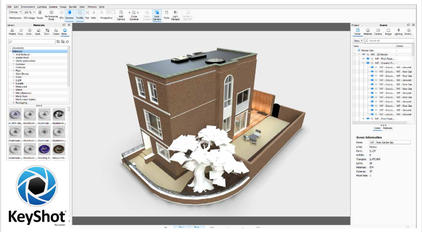
3D Model created



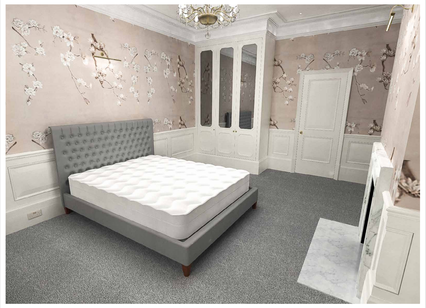
Technical Drawings produced from 3D model

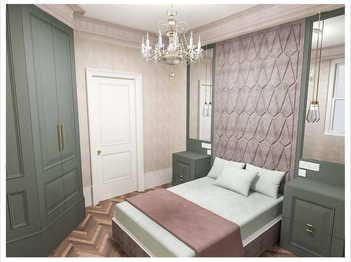


Renders created from 3D model

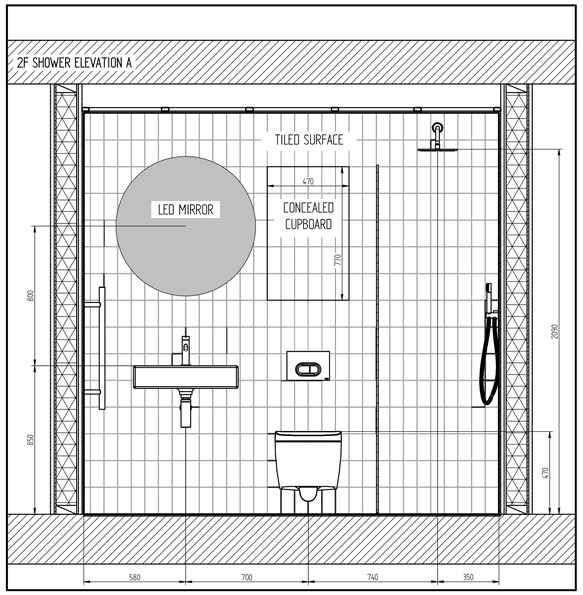


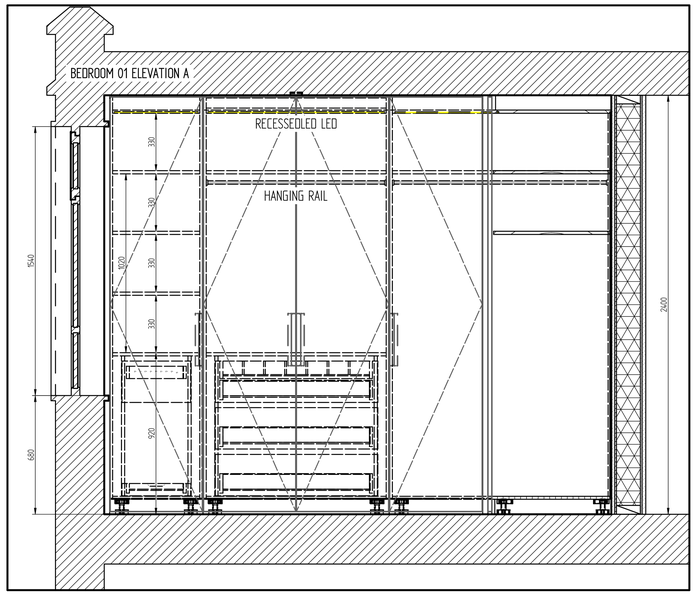
Standard Workflow

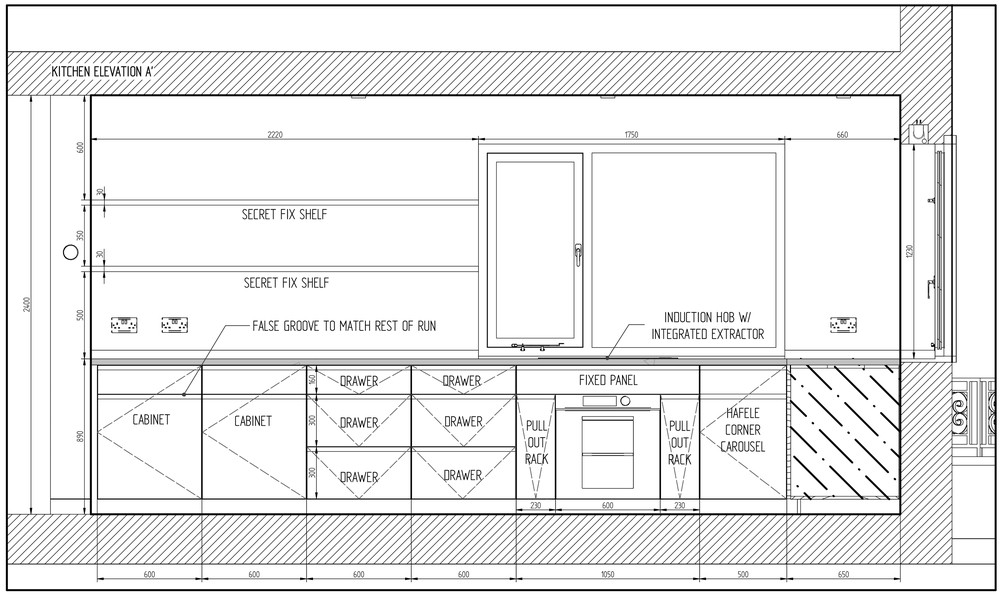


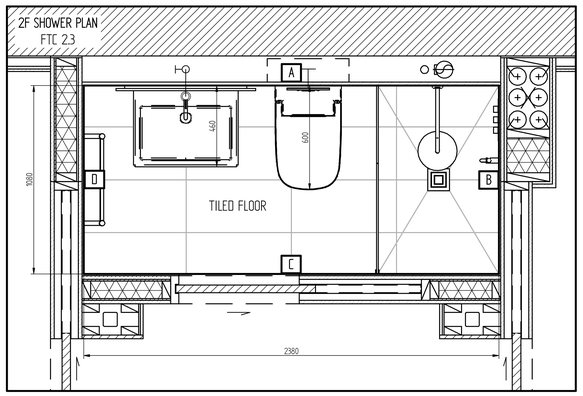


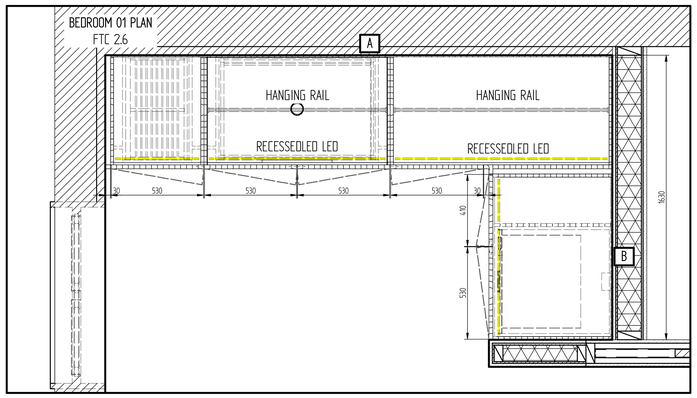
Technical detail

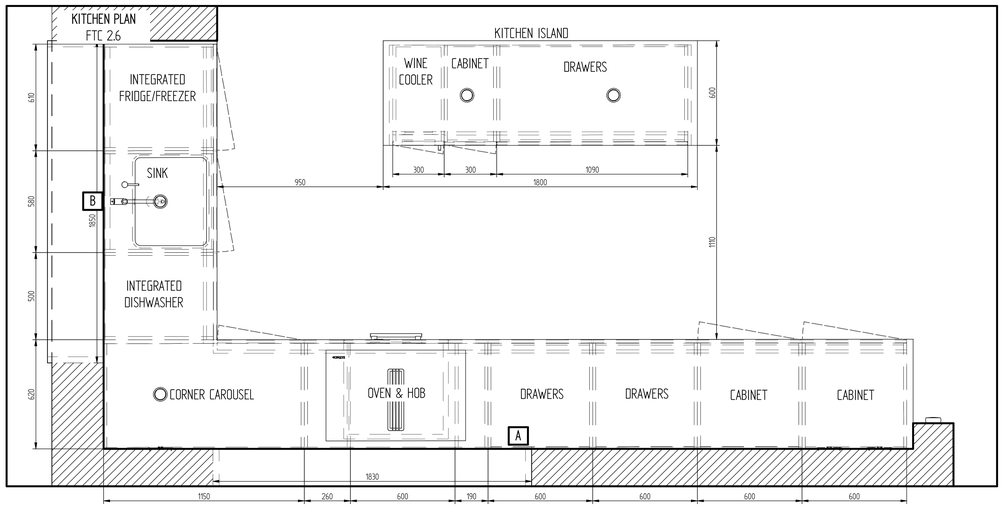












1 PROPOSED FRONT ELEVATION

BUILDERS BY DESIGN GROUP

1. Do not scale drawings. All dimensions to be checked on site.
2. Contractors, sub-contractors and suppliers to verify any critical dimensions on site prior to fabrication of any building element. Any discrepancies to be reported to the Architect.
3. To be read in conjunction with all relevant Architect's, Engineers' and services drawings, specifications and specialists consultants' information. Any discrepancies to be reported prior to installation
4. Drawings and Designs copyright. Drawings and Designs must not be reproduced without the consent.

REV	DESCRIPTION	DATE
001	INITIAL DRAWING	11/03/2022

PROJECT: _000_ EXTENSION

STATUS: PLANNING

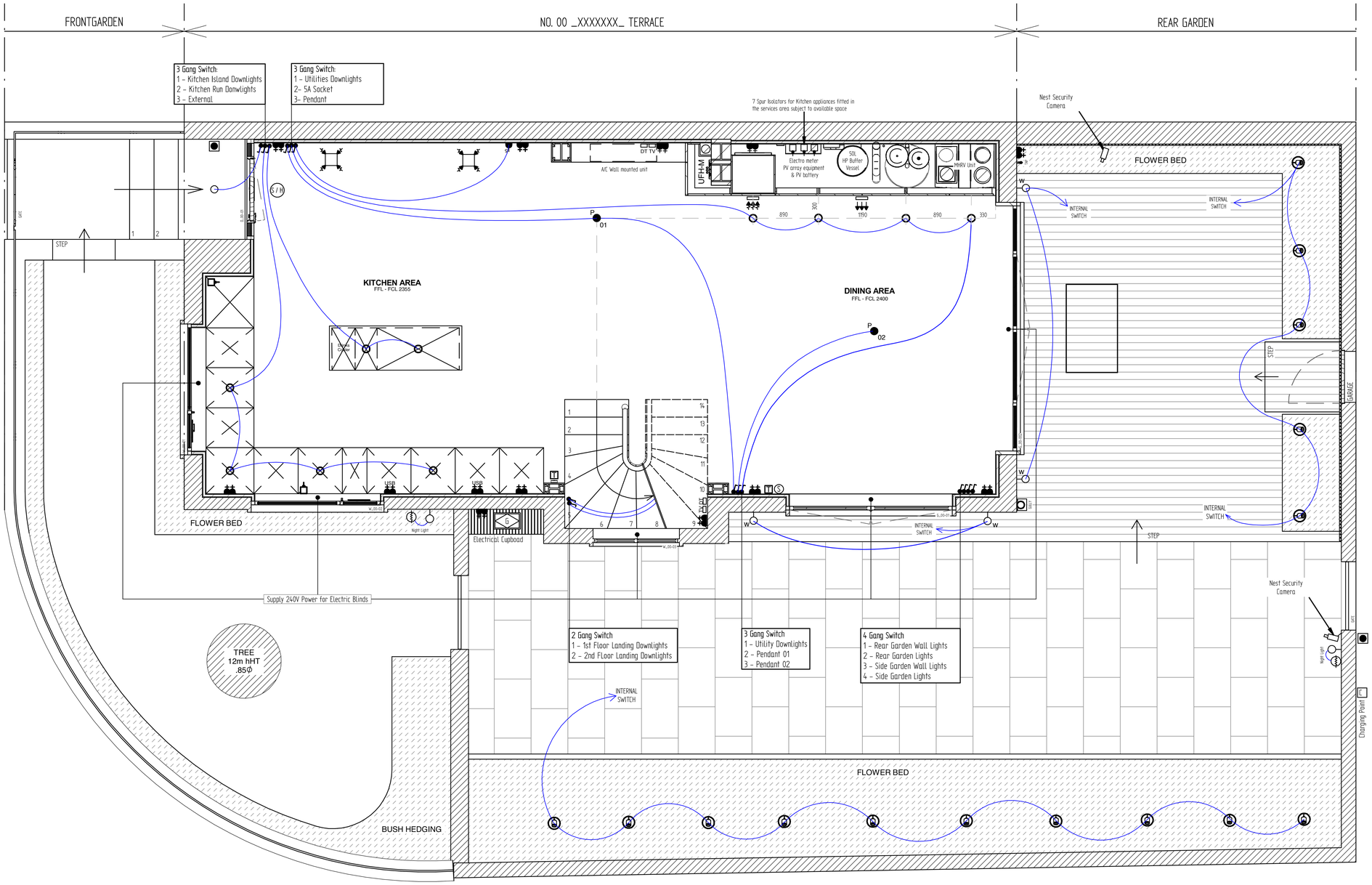
TITLE: _XXXXX YYYYYYYY_ FRONT ELEVATION PROPOSED

DRAWN BY: VLOD

CHECKED BY: SID

DRAWING NUMBER: 00_XX_000

SCALE: 1:100 @ A3



1 GROUND FLOOR ELECTRICAL PLAN

LEGEND:

LIGHTING	MECHANICAL SERVICES	ELECTRICAL SERVICES		
Recessed downlight	Ceiling extract / inlet	2-gang 13A switched socket, @ typ height / @ non-typ height	Multigang grid switch	Nest Hello Video Doorbell
Pendant / ceiling light	Wall extract / inlet	External weatherproof 2-gang socket, IP66	Nest 3rd Gen UFH thermostat / programmer	Photocell Sensor
Wall light	Wall supply / exhaust	2-gang 13A switched socket w/ USB chargers	Data / Telephone connection point	Google Nest Cam Outdoor Smart Security Camera
Garden light	Radiator / towel rail	1-gang 5A unswitched socket	TV connection point	Charging Point
Linear LED light	Ceiling supply / exhaust	Shaver socket	Nest 2nd GenSmoke Detector (LO1)	5 Amp Socket
PIR		Fused connection point:	Smoke & Heat Detector	
gang switch				

Note: Socket Height 450mm AFFL, Light Switch Height 1200mm AFFL, Light Switch by the bed Height 800mm AFFL, Thermometer Height 1500mm AFFL, Wall Light Height 1750mm AFFL

NORTH

0 1 2 3 4 5

BUILDERS BY DESIGN GROUP

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3. To be read in conjunction with all relevant Architect's, Engineers' and services drawings, specifications and specialists consultants' information. Any discrepancies to be reported prior to installation
4. Drawings and Designs copyright. Drawings and Designs must not be reproduced without the consent.

REV	DESCRIPTION	DATE
010	ISSUED TO SITE	23/01/2022

PROJECT: _000_ REFURBISHMENT

STATUS: ISSUE FOR CONSTRUCTION

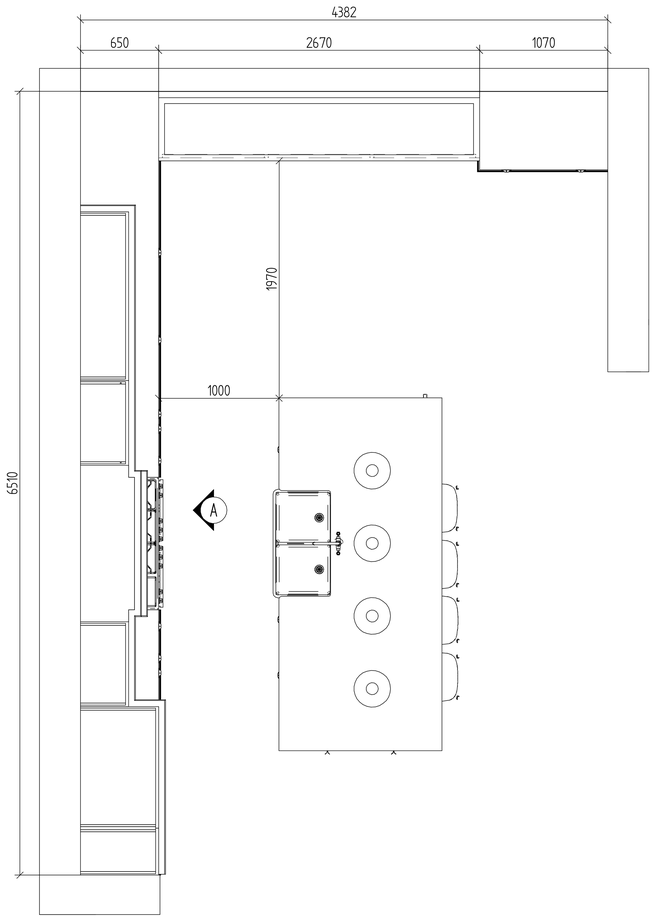
TITLE: _XXXXX YYYYYYYY_ GROUND FLOOR ELECTRICAL PLAN

DRAWN BY: VLOD

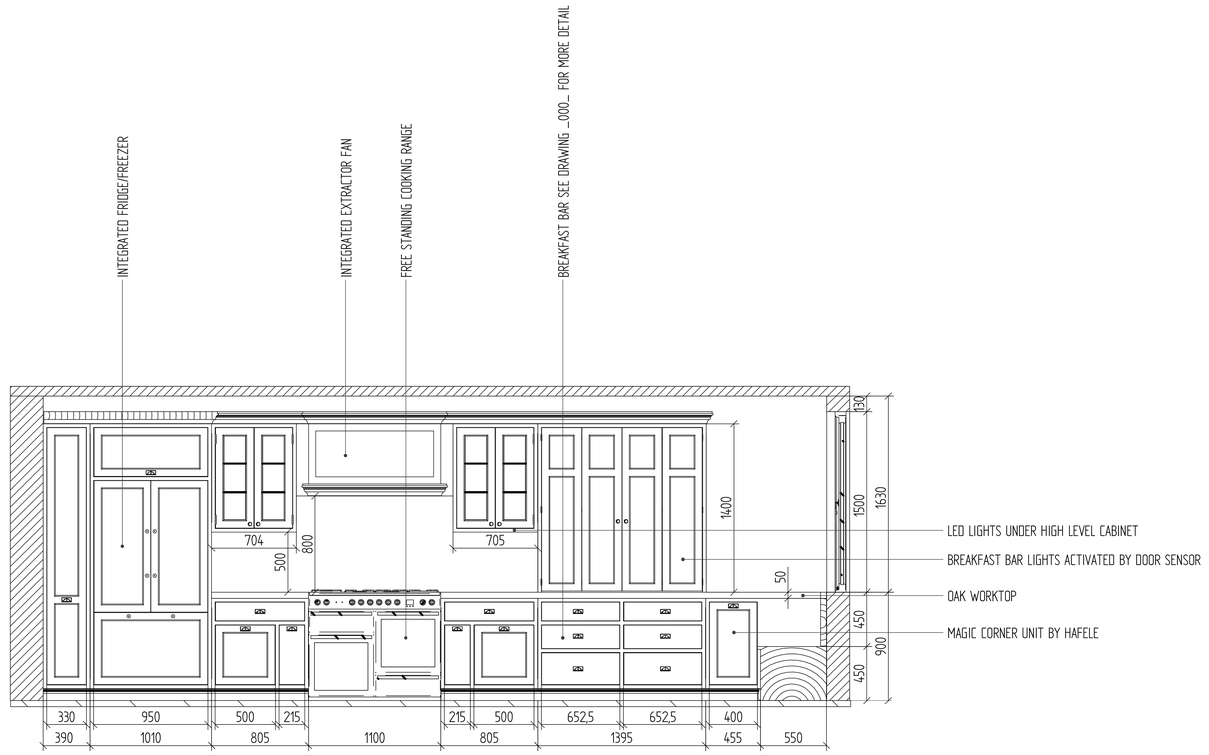
CHECKED BY: SID

DRAWING NUMBER: 00_XX_000

SCALE: 1:50 @ A3



1 KITCHEN PLAN



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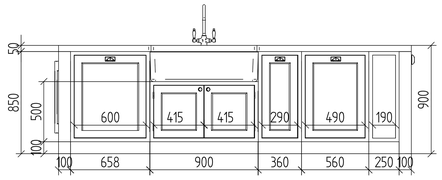
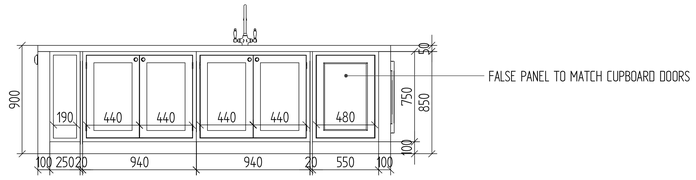
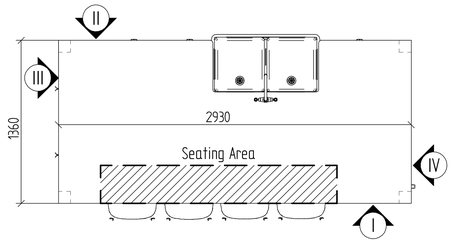


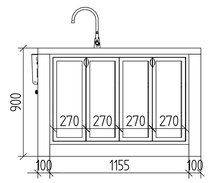
3 ELEVATION I



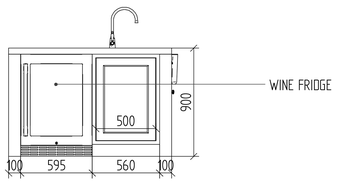
4 ELEVATION III



5 ISLAND PLAN



6 ELEVATION II



7 ELEVATION IV

BUILDERS BY DESIGN GROUP

1. Do not scale drawings. All dimensions to be checked on site.
2. Contractors, sub-contractors and suppliers to verify any critical dimensions on site prior to fabrication of any building element. Any discrepancies to be reported to the Architect.
3. To be read in conjunction with all relevant Architect's, Engineers' and services drawings, specifications and specialists consultants' information. Any discrepancies to be reported prior to installation
4. Drawings and Designs copyright. Drawings and Designs must not be reproduced without the consent.

REV	DESCRIPTION	DATE
A01	ISSUED TO CLIENT	12/06/2022

PROJECT: _000_ JOINERY

STATUS: PLANNING

TITLE: _XXXXX YYYYYYYY_ KITCHEN

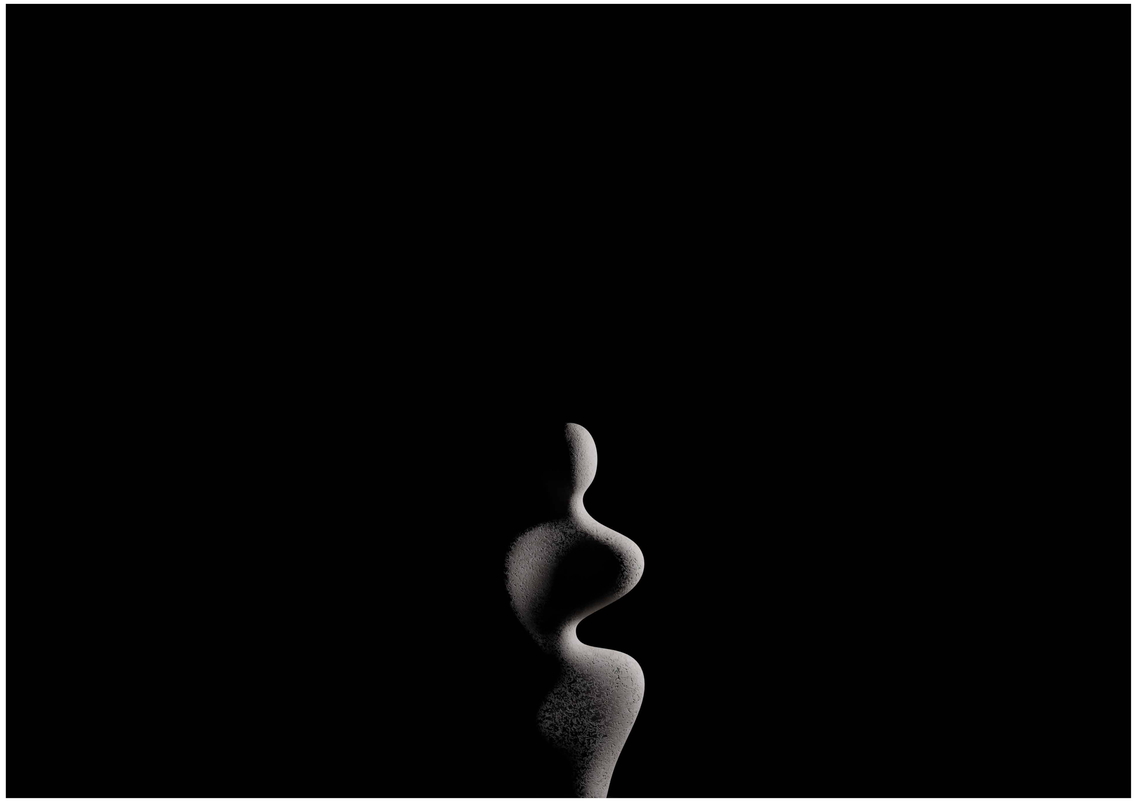
DRAWN BY: VLOD

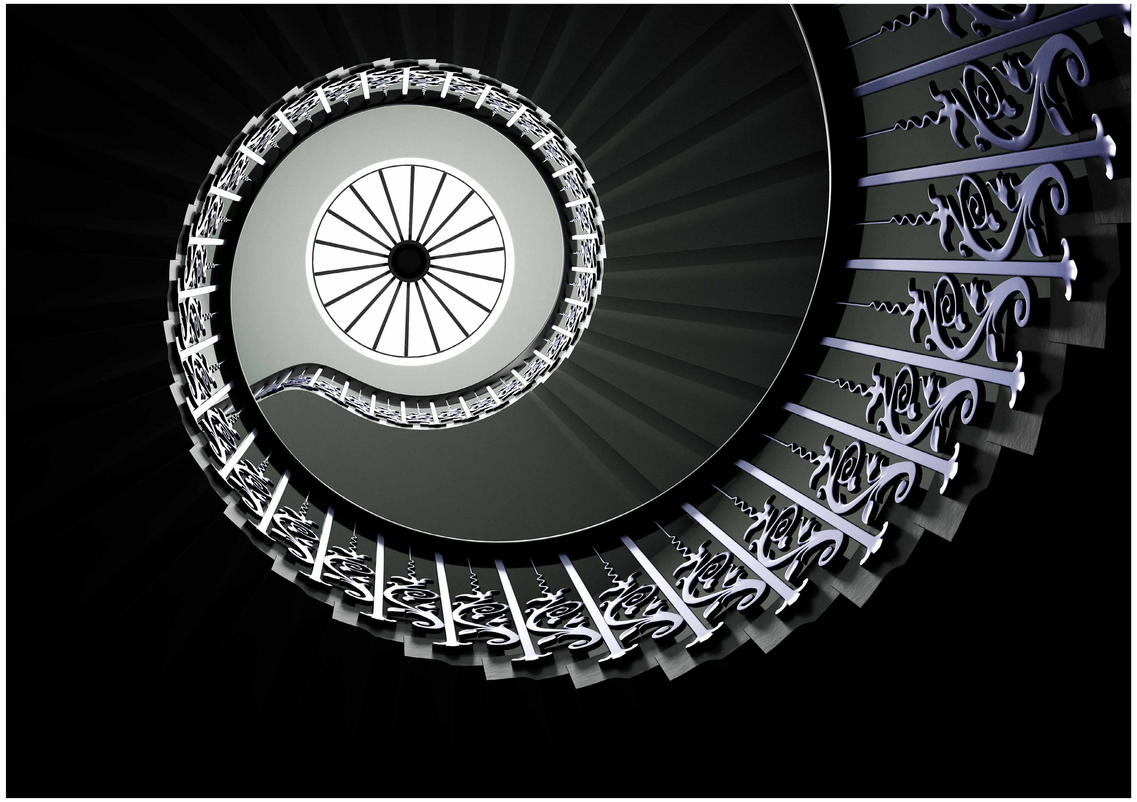
CHECKED BY: SID

DRAWING NUMBER: 00_XX_000

SCALE: 1:50 @ A3

Extras





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