



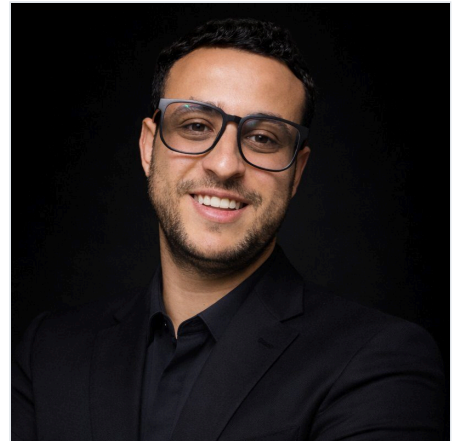
PORTFOLIO • 2021 – 2026

TECHNICAL ARCHITECT • TECHNICAL TEAM LEADER

# ABDELRAHMAN KARAM

## BRIDGING DESIGN INTENT AND PRECISION CONSTRUCTION

Technical Architect and Technical Team Leader specialising in hospitality, luxury residential and large-scale developments across the UAE, the GCC and East Africa. I connect design intent to construction through advanced BIM, **ISO 19650-aligned information management** and high-resolution technical documentation.



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**5+**

YEARS, CONCEPT TO FIT-  
OUT

**15+**

PROJECTS DELIVERED OR  
IN DELIVERY

**400+**

DETAIL SHEETS AUTHORED

**4**

COUNTRIES: UAE, KSA,  
EGYPT, TANZANIA

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# THE BRIDGE BETWEEN DESIGN AND SITE

**5+ years** delivering complex projects from schematic design to fit-out: ultra-luxury mansions at **Sobha Hartland**, authority-regulated public infrastructure for **Dubai RTA**, housing and mixed-use schemes in Saudi Arabia and Egypt, and now the **Anantara Zanzibar** resort with **Infinity Developments**, with AI-enabled workflows built into technical delivery.

My core strength is technical coordination at high resolution. I act as the interface between architecture, structure, MEP, landscape, lighting, hospitality operators and specialist consultants, and I work across the full digital delivery stack: **Revit, Navisworks, Revizto, Autodesk Construction Cloud and BIM 360, AutoCAD, Dynamo and pyRevit, and IFC/openBIM**, with Enscape, D5 Render and Lumion for design review. The result is coordinated models, IFC packages, shop drawings and documentation that are buildable and ready for authority submission.

As Technical Team Leader at **Infinity Developments**, I lead a team of BIM modellers producing Revit models and IFC packages, coordinate the consultant team across a pipeline of hospitality and residential projects, and bring applied AI into everyday technical delivery.

|              |                                                       |
|--------------|-------------------------------------------------------|
| BASED IN     | Dubai, United Arab Emirates                           |
| CURRENT ROLE | Technical Team Leader, Infinity Developments          |
| EXPERIENCE   | Since September 2021 · UAE, KSA, Egypt, Tanzania      |
| SECTORS      | Hospitality, luxury residential, mixed-use, transport |
| STANDARDS    | ISO 19650 · IFC2X3 CV 2.0 · Dubai Municipality · RTA  |
| TRAINING     | Autodesk BIM diplomas · BSI ISO 19650                 |
| EDUCATION    | BSc Architecture, Ahrām Canadian University           |
| LANGUAGES    | English (proficient)                                  |

WHAT I DELIVER

|                                                                                                                                                                                                                                                |                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>MODELS</p> <p><b>COORDINATION</b></p> <p>Federated model reviews, clash detection and issue tracking across architecture, structure and MEP in Navisworks and Revizto. Design conflicts are closed in the model before they reach site.</p> | <p>DRAWINGS</p> <p><b>DOCUMENTATION</b></p> <p>DD packages, Dubai Municipality submittals, IFC drawing packages, mock-ups, shop drawings and as-built records, issued through a controlled common data environment.</p>   |
| <p>STANDARDS</p> <p><b>STANDARDISATION</b></p> <p>ISO 19650 templates, naming conventions, Uniclass classification and shared parameters that keep information consistent across teams and consultants.</p>                                    | <p>AI</p> <p><b>AI AND AUTOMATION</b></p> <p>AI workflows in technical delivery and digital construction: model QA, data extraction, drawing checks and agent-assisted modelling, with a review gate on every output.</p> |

# EXPERIENCE

**Apr 2026 to now**Dubai, UAE **CURRENT****TECHNICAL TEAM LEADER**

Infinity Developments

- Lead a team of BIM modellers producing Revit models and IFC drawing packages for a Zanzibar hospitality and residential portfolio
- Manage IFC packages from drawing register to issue: Anantara G+4 hotel suites (45 sheets), 3-BHK villas (29 sheets) and Infinity Hills Block C
- Coordinate MEP, structure, landscape, lighting, ICT and F&B consultants, from RFQs and scopes to deliverable tracking

**Jul 2025 to Apr 2026**

Dubai, UAE

**TECHNICAL ARCHITECT**

PNC Architects

- Design drawings prepared to project standards and local regulations for ultra-luxury mansions at Sobha Hartland
- Dubai Municipality submittal drawings, checked against the applicable codes
- ACC work-sharing submittals and revisions for smooth contractor execution

**Feb 2025 to Jun 2025**

Cairo, Egypt

**TECHNICAL ARCHITECT**

REDCON Construction Co.

- BIM-based quality control procedures for accurate, consistent and complete digital deliverables
- Coordinated shop drawings produced in BIM for architectural elements and systems
- Technical and coordination issues resolved through model-based clash detection

**Jul 2024 to Feb 2025**

Saudi Arabia (back office)

**TECHNICAL COORDINATOR**

Alraem International Real Estate Development (ARACO)

- End-to-end design development for high-rise residential and hotel apartment buildings, from preliminary design to tender documents
- Engineering designs and multidisciplinary BIM models reviewed against project requirements and standards
- Design conflicts resolved between structural, mechanical, electrical and architectural disciplines

**Jan 2024 to Jul 2024**

Saudi Arabia (back office)

**TECHNICAL ARCHITECT**

Alraem International Real Estate Development (ARACO)

- Construction drawings: plans, elevations, sections and details
- Shop drawings, specifications for materials, finishes and construction methods
- ACC work-sharing submittals, IFC drawings, mock-ups and as-built documentation

**Jun 2022 to Jan 2024**

Cairo, Egypt

**JUNIOR ARCHITECT**

TurnKey Developments

- Floor plan layouts from area schedules: GFA, BUA, parking, unit mix and saleable-area efficiency
- Shop drawings for multiple building packages, specifications and quality checks on construction documents
- Tender process: bidder queries, bid evaluation against tender documents, contract negotiation and post-tender analysis

**Sep 2021 to Jul 2022**

Cairo, Egypt

**JUNIOR ARCHITECT, SITE BASED**

TurnKey Developments

- Site compliance with architectural drawings, specifications and building codes
- Inspection of materials and workmanship, with corrective actions
- Design issues resolved on site with the technical office, contractors and subcontractors

# AI ACROSS TECHNICAL DELIVERY

Construction technology moves fastest where project information is structured. I apply AI to that information layer, reading drawing sets, checking models, extracting data and running repeatable modelling steps, while engineering judgement and the final review stay with the team.

AGENTIC BIM

**MODELLING AND MODEL QA**

Language-model agents connected to Revit through MCP build and audit models to a written method: seven review stages and twenty QA gates, read-only health checks before any edit, and every review comment turned into a new rule.

REVIT API

**DRAWING PRODUCTION ADD-INS**

A custom C# add-in builds IFC drawing packages from the drawing register: views, ISO 19650 sheet numbering, annotation, sheet composition, QA and PDF/DWG export, all driven by JSON rule profiles. A companion tool auto-dimensions plans.

OPENBIM

**IFC ACCEPTANCE GATE**

IFC2X3 Coordination View exports with mapped classes, checked by an automated ifcopenshell gate for georeferencing, units, spaces, classification, property sets and quantities before issue.

DESIGN REVIEW

**AI DRAWING REVIEW**

Drawing packages checked for title blocks, levels, tags, codes and design standards, with a mandatory verification pass. Output: a graded comment register and a marked-up visual report for the design team.

PROCUREMENT

**RFQS AND CONSULTANT TRACKING**

AI-assisted consultant RFQ suites with building-by-system scope matrices and fee returns, proposal gap analysis against the RFQ, and a multi-consultant tracker by building and discipline.

KNOWLEDGE

**PROJECT KNOWLEDGE GRAPHS**

The BIM standard and project history indexed as knowledge graphs, so agents and the team query the source before they answer or act.

DELIVERY PIPELINE

| STAGE A                                                                         | STAGE B                                                                                   | STAGE C                                                                                         | STAGE D                                                                                        | STAGE E                                                                             | STAGE F                                                                            |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>DESIGN INTENT</b>                                                            | <b>AUTHOR</b>                                                                             | <b>COORDINATE</b>                                                                               | <b>ASSURE</b>                                                                                  | <b>ISSUE</b>                                                                        | <b>APPROVE</b>                                                                     |
| Concept, area schedules, GFA and BUA, unit mix, efficiency and parking studies. | Revit models to LOD 350–450 with data-rich families, levels, grids and shared parameters. | Federated reviews and clash tests in Navisworks and Revizto, issues tracked in ACC and BIM 360. | ISO 19650 checks on naming, metadata and containers, plus AI-assisted model QA before release. | IFC packages, DD packages, shop drawings and mock-ups, with tender and BOQ support. | Dubai Municipality and RTA submittals, then as-built records and digital handover. |

TOOLCHAIN

**AUTHOR**

- Autodesk Revit
- AutoCAD
- SketchUp
- Revit families and templates

**VISUALISE**

- Enscape
- D5 Render
- Lumion
- Adobe Photoshop
- AI-assisted rendering

**COORDINATE**

- Navisworks
- Revizto
- Autodesk Construction Cloud
- BIM 360
- IFC / openBIM (IFC2X3 CV 2.0)

**AUTOMATE**

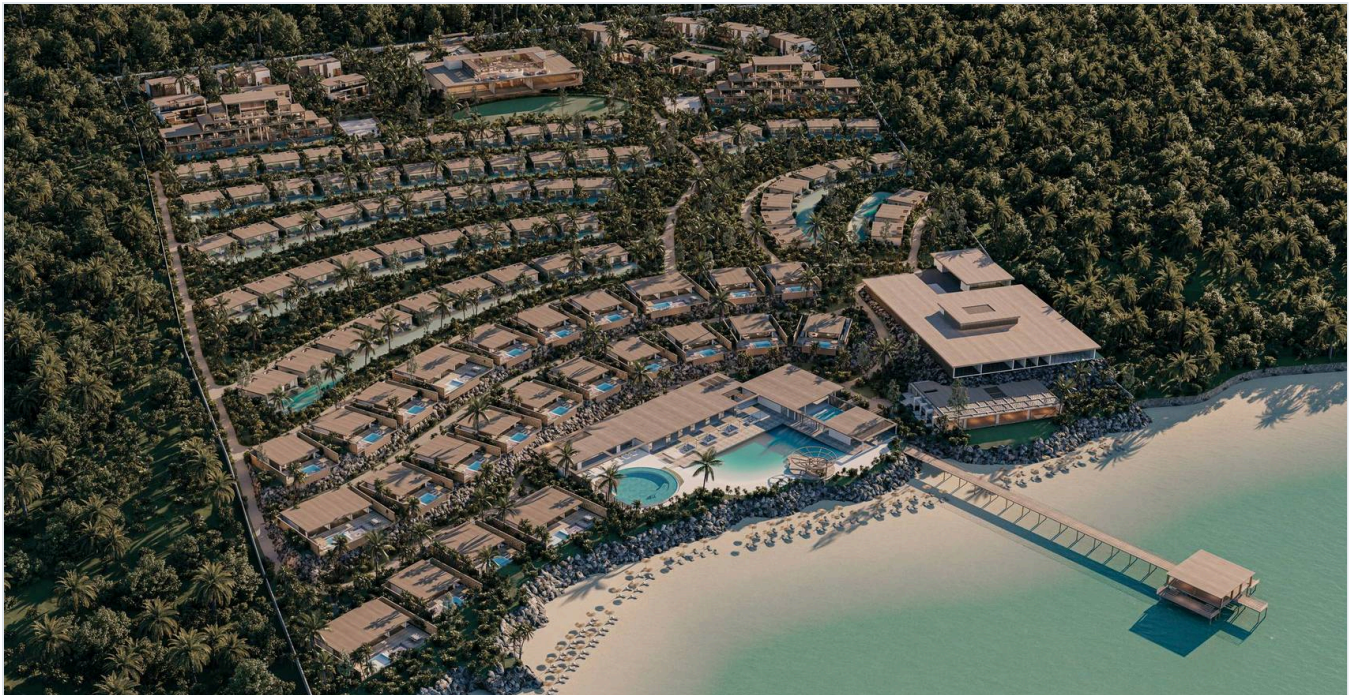
- LLM agents integrated with Revit (MCP)
- C# Revit API add-ins
- Dynamo and pyRevit
- Python: ifcopenshell, ezdx, openpyxl
- Knowledge graphs

CERTIFICATIONS AND EDUCATION

- BIM Architecture Diploma** Autodesk · Autodesk
- BIM Structure Diploma** Autodesk · Autodesk
- BIM Coordination** Autodesk · Autodesk
- BIM Management Diploma** Autodesk · Issued Jul 2024
- ISO 19650 Parts 1–6 · BIM Fundamentals** BSI training · 2026

Bachelor's degree in Architecture, Ahram Canadian University, Cairo (2017 to 2021). Languages: English (proficient).

# ANANTARA ZANZIBAR RESORT & RESIDENCES



A five-star beachfront resort and residences in Nungwi, on the north coast of Zanzibar, developed by Infinity Developments for the Anantara brand. The masterplan steps down a wooded slope to the beach: 132 lagoon suites, two G+4 hotel suites buildings, 1-, 2- and 3-bedroom villas, reception, spa and gym, beach club, restaurants, conference centre and back-of-house buildings.

## ROLE AND DELIVERABLES

- Lead the BIM modelling team producing Revit models and IFC packages
- G+4 hotel suites IFC submission (45 sheets) and 3-BHK villa IFC package (29 sheets, three issues)
- 720-sheet master IFC drawing register with ISO 19650 naming
- Consultant coordination: MEP, structure, landscape, lighting, ICT and F&B
- Project Revit template: survey coordinates, Uniclass and shared parameters

## CLIENT / DEVELOPER

Infinity Developments • operator  
Anantara (Minor Hotels)

## LOCATION

Nungwi, Zanzibar, Tanzania

## TPOLOGY

Beach resort and residences

## LAND AREA

Not published

## BUILT-UP AREA

≈33,300 m<sup>2</sup> (FOH 21,556 + BOH 11,744)

## FLOORS

Up to G+4

## UNITS

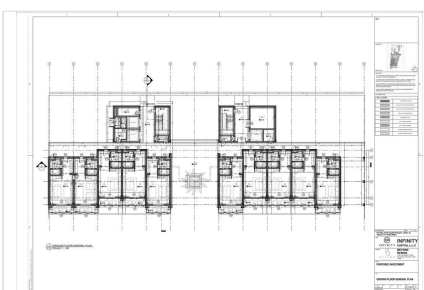
231 keys

## STATUS

Under construction

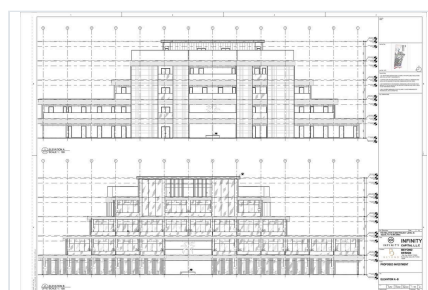
## MY ROLE

Technical Team Leader, Infinity Developments



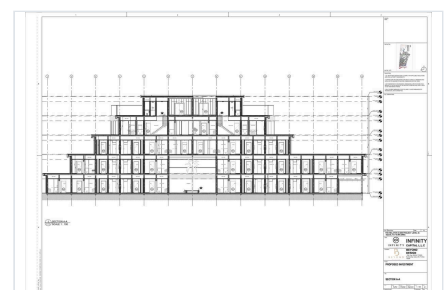
G+4 HOTEL • GROUND FLOOR  
GENERAL PLAN (AR 0100)

DRAWING



G+4 HOTEL • ELEVATIONS A-B  
(AR 0106)

DRAWING



G+4 HOTEL • SECTION A-A (AR  
0108)

DRAWING

# BINDU MENON MANSION

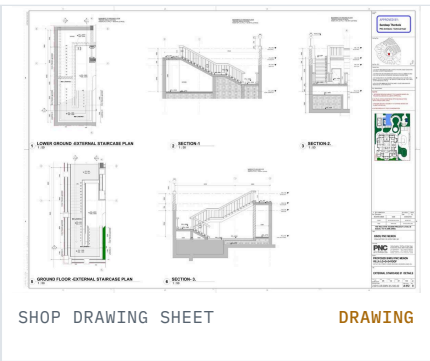


An ultra-luxury private mansion in Sobha Hartland with a classical stone facade, tall curtain-wall openings and landscaped terraces. The work covered the full technical chain: massing and context studies, SketchUp development, a Revit model at LOD 450, architectural shop drawings, multidisciplinary coordination, and the DD and Dubai Municipality packages.

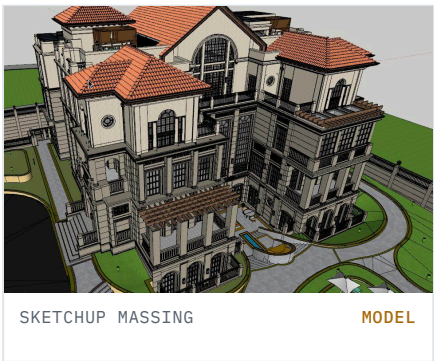
## ROLE AND DELIVERABLES

- Architectural shop drawings
- Revit modelling to LOD 450
- SketchUp updates and modelling
- Coordination with structure, MEP and landscape
- DD package transmittals

|                    |                                                   |
|--------------------|---------------------------------------------------|
| CLIENT / DEVELOPER | Private client • master developer<br>Sobha Realty |
| LOCATION           | Sobha Hartland II, MBR City,<br>Dubai             |
| TPOLOGY            | Private ultra-luxury mansion                      |
| LAND AREA          | Not published                                     |
| BUILT-UP AREA      | Not published                                     |
| FLOORS             | Not published                                     |
| UNITS              | 1 residence                                       |
| STATUS             | Design and DM submittal                           |
| MY ROLE            | Technical Architect, PNC<br>Architects            |



DRAWING



MODEL



RENDER

# PNC MENON MANSION

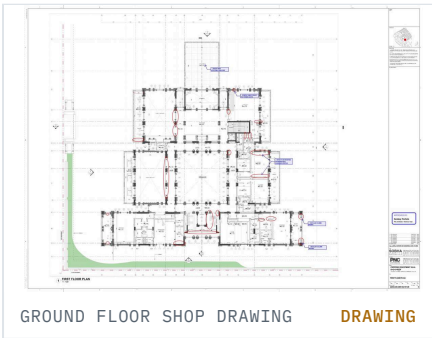


The residence of the Sobha founder at Sobha Hartland. A fully modelled Revit project at LOD 450 drove the architectural shop drawings for plans, sections, elevations, access hatches and water features, followed by as-built model updates for handover.

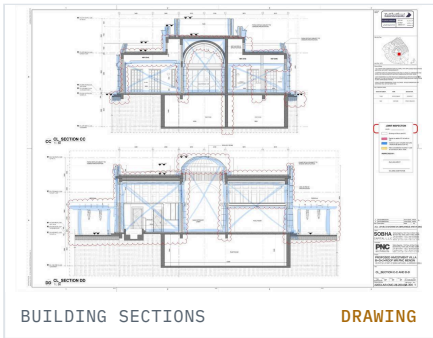
## ROLE AND DELIVERABLES

- Architectural shop drawings
- As-built model updates
- Revit modelling to LOD 450
- Coordination with the other disciplines

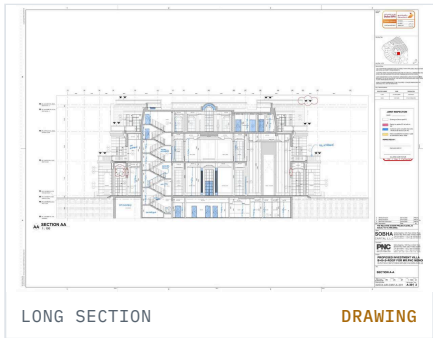
|                    |                                                         |
|--------------------|---------------------------------------------------------|
| CLIENT / DEVELOPER | Sobha founder (private) • master developer Sobha Realty |
| LOCATION           | Sobha Hartland II, MBR City, Dubai                      |
| TPOLOGY            | Private ultra-luxury mansion                            |
| LAND AREA          | Not published                                           |
| BUILT-UP AREA      | Not published                                           |
| FLOORS             | Not published                                           |
| UNITS              | 1 residence                                             |
| STATUS             | Shop drawings and as-built                              |
| MY ROLE            | Technical Architect, PNC Architects                     |



GROUND FLOOR SHOP DRAWING **DRAWING**



BUILDING SECTIONS **DRAWING**



LONG SECTION **DRAWING**

# FRANCIES ALFRED MANSION

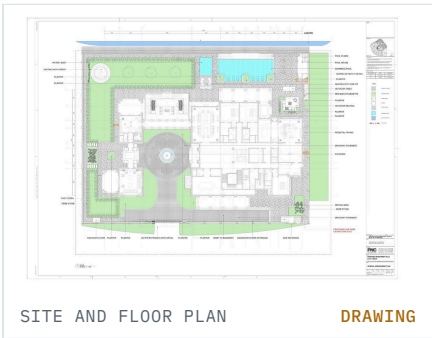


A private mansion at Sobha Hartland documented from a coordinated Revit model. The drawing set runs from site and floor plans through elevations and sections to pool, water feature, paving pattern and arched opening details.

## ROLE AND DELIVERABLES

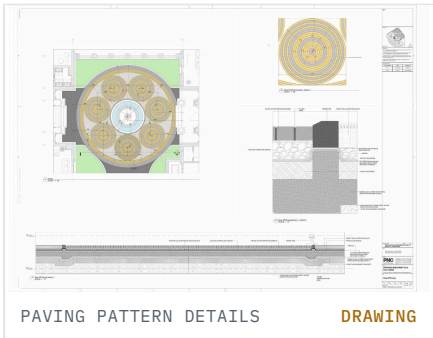
- Revit model and SketchUp study
- Site, floor and landscape plans
- Elevations and sections
- Pool, water feature and paving details
- Arched opening and facade details

|                    |                                                   |
|--------------------|---------------------------------------------------|
| CLIENT / DEVELOPER | Private client • master developer<br>Sobha Realty |
| LOCATION           | Sobha Hartland II, MBR City,<br>Dubai             |
| TPOLOGY            | Private ultra-luxury mansion                      |
| LAND AREA          | Not published                                     |
| BUILT-UP AREA      | Not published                                     |
| FLOORS             | Not published                                     |
| UNITS              | 1 residence                                       |
| STATUS             | Shop drawings                                     |
| MY ROLE            | Technical Architect, PNC<br>Architects            |



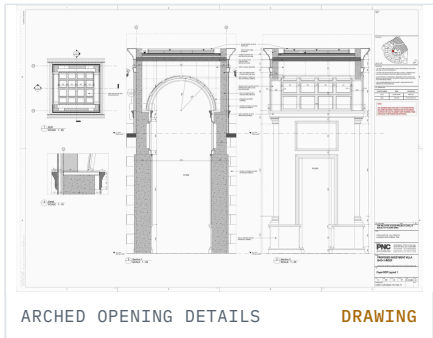
SITE AND FLOOR PLAN

DRAWING



PAVING PATTERN DETAILS

DRAWING



ARCHED OPENING DETAILS

DRAWING

# METRO AND TRAM DUBAI



Post-project digital delivery for the Dubai Metro and Tram network. The digital functional breakdown was managed directly with RTA, the Revit models were optimised, and the architectural drawing submittals were maintained to RTA requirements.

## ROLE AND DELIVERABLES

- Project digital functional breakdown, managed directly with RTA
- Revit model optimisation
- Architectural drawing submittals maintained to RTA requirements

Architecture

Automatic Fare Collection

Building Services

Civil and Structural

Commercial and Retail

Coordination and Interfacing

Depot Equipment

Engineering Governance

IT Systems

Operational Control

Platform Screen Doors

Power Distribution

Rail Maintenance Strategy

Projects Delivery

QHSE

Rail Management System

Rolling Stock

Signalling

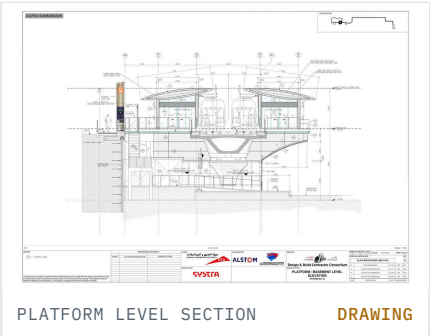
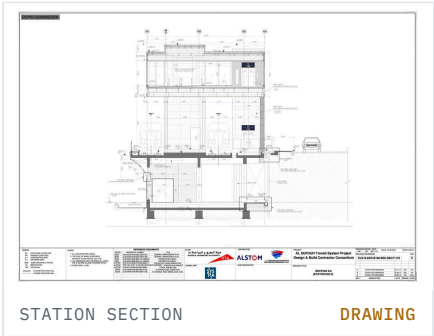
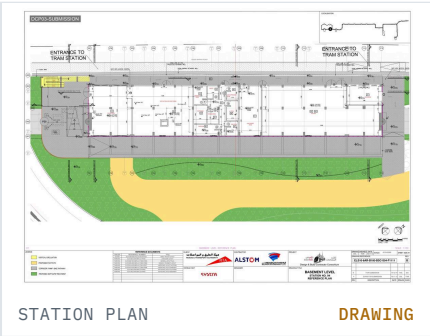
Track

Telecommunications

Traffic, Roads and Landscaping

Utilities

|           |                               |
|-----------|-------------------------------|
| CLIENT    | Dubai RTA                     |
| TYPE      | Metro and tram stations       |
| SCOPE     | Post-project digital delivery |
| BREAKDOWN | 22 functional areas           |



# GOLDEN GATE MALL



Golden Gate is a mixed-use development of 29 office and retail buildings on a 160,000 m<sup>2</sup> site on South 90th Street, New Cairo, developed by Redcon Properties and built by REDCON Construction. The work covered the Revit model and coordinated shop drawings: plans, elevations, facade, signage and shopfront details.

## ROLE AND DELIVERABLES

- Revit model of the commercial blocks
- Plans, elevations and sections
- Facade, signage and shopfront details
- Shop drawing packages

## CLIENT / DEVELOPER

Redcon Properties · contractor  
REDCON Construction

## LOCATION

South 90th Street, New Cairo,  
Egypt

## TPOLOGY

Mixed-use offices and open-street  
retail

## LAND AREA

160,000 m<sup>2</sup>

## BUILT-UP AREA

250,000 m<sup>2</sup>

## FLOORS

Not published

## UNITS

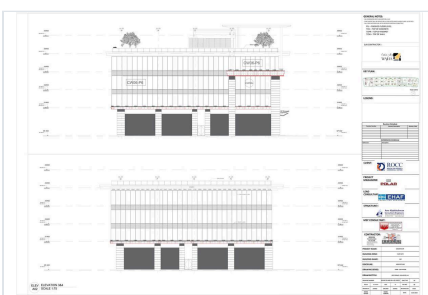
29 buildings

## STATUS

Ongoing

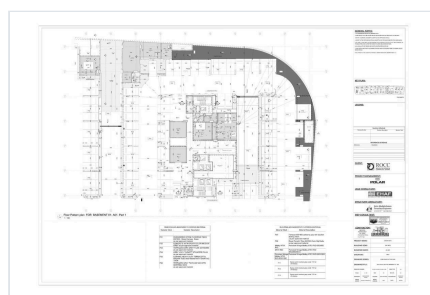
## MY ROLE

Technical Architect, REDCON  
Construction



ELEVATIONS SHEET

DRAWING



FLOOR PLAN SHEET

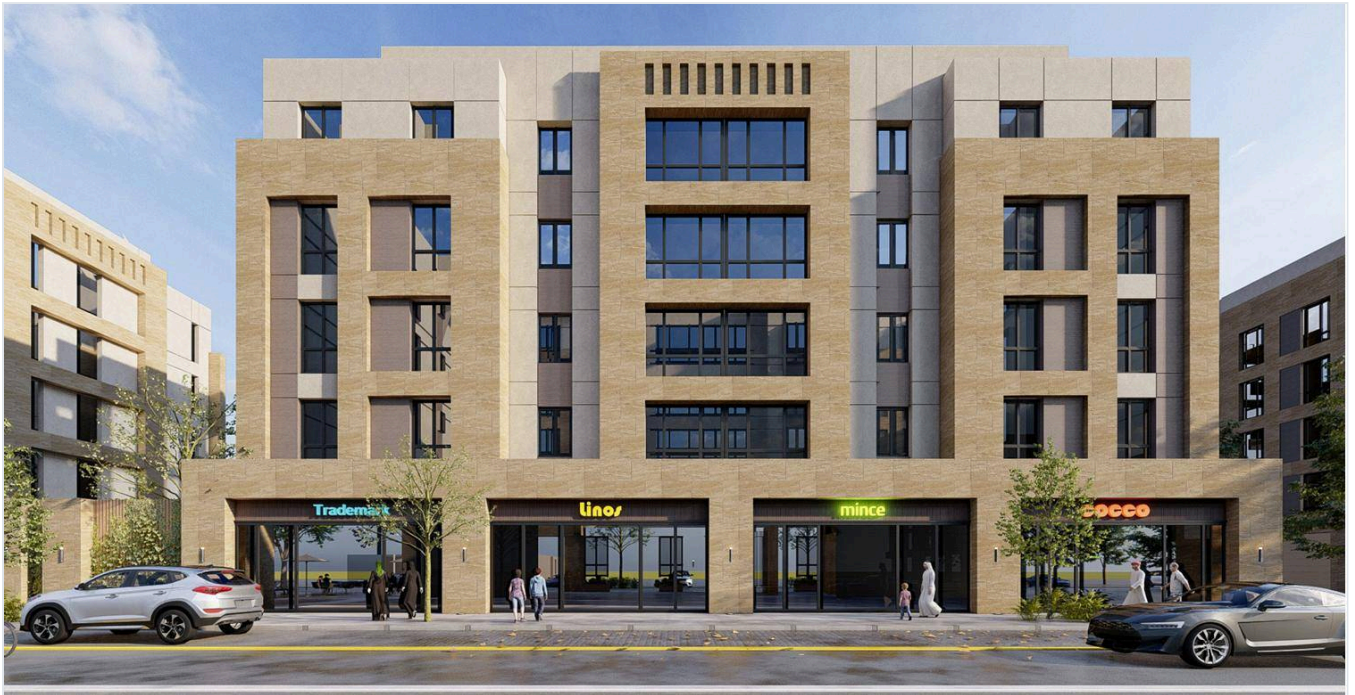
DRAWING



REVIT MODEL

MODEL

## AWALI ALFORSAN



A residential and commercial scheme of 23 buildings and 437 units over 60,518 m<sup>2</sup> in NHC's Al Fursan destination, Riyadh, delivered by ARACO. Work covered unit plans, area calculations, facade development and the Revit model.

## ROLE AND DELIVERABLES

- Unit planning and area calculations
- Facade development
- Revit model
- Floor plans, sections and schedules

## CLIENT / DEVELOPER

ARACO • within NHC's Al Fursan destination

## LOCATION

Al Fursan, Riyadh, Saudi Arabia

## TYPOLOGY

Residential with retail, 23 buildings

## LAND AREA

60,518 m<sup>2</sup>

## BUILT-UP AREA

Not published

## FLOORS

Not published

## UNITS

437 units

## STATUS

Marketed (NHC)

## MY ROLE

Technical Architect / Technical Coordinator, ARACO



TYPICAL FLOOR PLAN

DRAWING



REVIT MODEL

MODEL



REVIT MODEL, REAR

MODEL

# AWALI AL NARJES

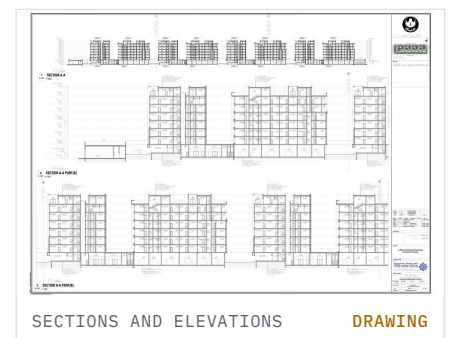
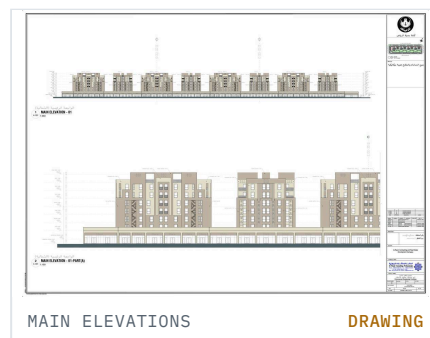
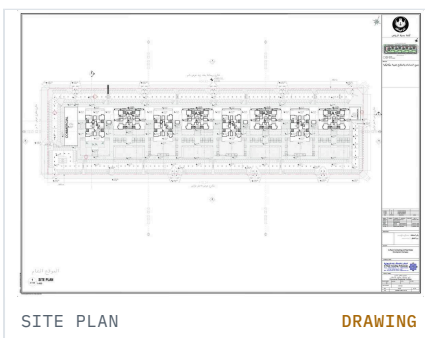


Eight residential buildings of 25 units each (200 apartments and duplexes) over ground-floor shops and a basement car park, on a 43,896 m<sup>2</sup> site in the Khuzam suburb of north Riyadh, developed by ARACO in partnership with NHC. The package covers the site plan, main elevations, sections, door and aluminium details and construction joint details, issued through Autodesk Construction Cloud.

## ROLE AND DELIVERABLES

- Site plan and main elevations
- Sections and elevations
- Door, window and aluminium detail packages
- ACC submittals and IFC drawings

|                    |                                                    |
|--------------------|----------------------------------------------------|
| CLIENT / DEVELOPER | ARACO in partnership with NHC                      |
| LOCATION           | Khuzam, north Riyadh, Saudi Arabia                 |
| TPOLOGY            | Apartments and duplexes over ground-floor shops    |
| LAND AREA          | 43,896 m <sup>2</sup>                              |
| BUILT-UP AREA      | Not published                                      |
| FLOORS             | Basement + ground + 7.5                            |
| UNITS              | 200 units (8 buildings)                            |
| STATUS             | Under development                                  |
| MY ROLE            | Technical Architect / Technical Coordinator, ARACO |



## AL ASALAH



A developmental housing scope of 34 buildings and 476 units in the Al Asalah area of Uraydh, Riyadh, delivered turnkey by ARACO in four phased handovers, documented with typical floor plans, sections, elevations and door schedules.

## ROLE AND DELIVERABLES

- Typical floor plans
- Sections and elevations
- Door details and schedules
- Design drawing package

## CLIENT / DEVELOPER

Developmental housing programme • works by ARACO

## LOCATION

Al Asalah, Uraydh, Riyadh, Saudi Arabia

## TYPOLOGY

Developmental housing, turnkey

## LAND AREA

Not published

## BUILT-UP AREA

Not published

## FLOORS

Not published

## UNITS

476 units (34 buildings)

## STATUS

Phased handover

## MY ROLE

Technical Architect / Technical Coordinator, ARACO



SECTION SHEET

DRAWING



CORNER RENDER

RENDER

## CONTACT

# LET'S MAKE IT BUILDABLE.

### EMAIL

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### PHONE

+971 58 116 1257

### INTERACTIVE PORTFOLIO

[abkaram.abdelrahman-karam-portfolio.workers.dev](https://abkaram.abdelrahman-karam-portfolio.workers.dev)

The interactive version includes a live BIM model viewer, a capability map and an AI assistant that answers questions about this work.