Crimson Peak Solutions Limited | Civil Structural Engineers

COMPANY PROFILE | 2025

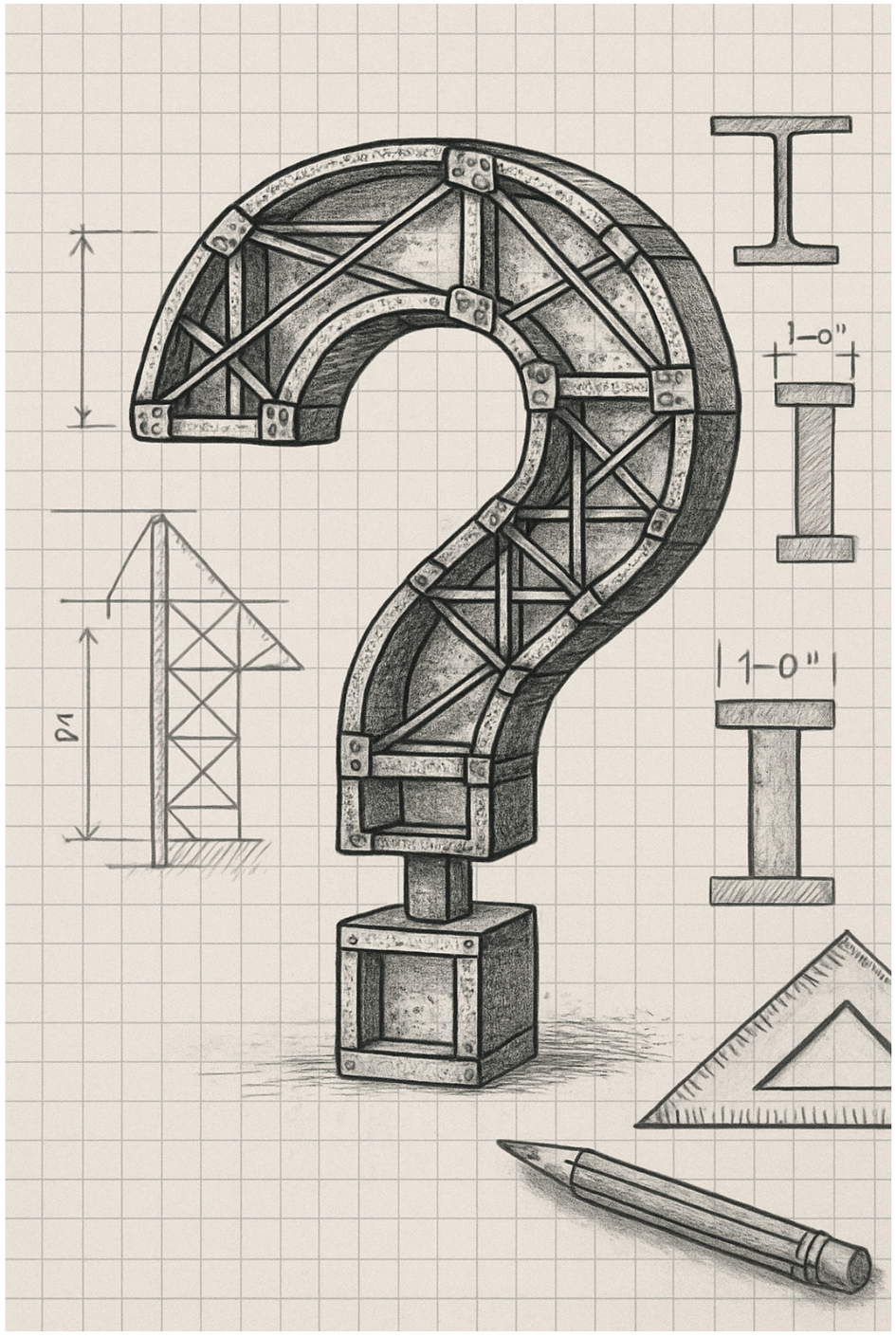
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

Who are we?

CPS is a Consulting Engineering Practice owned and managed by Kenyan Engineers. The company was registered in **2016** and incorporated as a limited liability company in **2017.** The principals are academically well qualified and have comprehensive experience in the practice of engineering consultancy with a strong bias for adapting technology into day to day engineering solutions.

CPS has in-House competence in most engineering fields:-

- **Structural engineering**
- **Structural audits**
- **Geotechnical engineering**
- **Roads, highway and bridges**
- **Water resources planning**
- **Water supply and distribution**
- **Sanitary and public health engineering**
- **Solid wastes, collection, treatment and disposal**
- **National, regional and town infrastructure developments**



CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

Pre-construction planning

Our company carefully studies the background, objectives, and scope of services to understand the requirements of the project.
The studies of existing facilities in the vicinity of the intended construction shall be undertaken to ensure accuracy of coordination
with incorporation of improved design and safety features and engineering environmental and social impacts that are also critical.
In executing the project, the Company ensures highest professional standards to meet the time schedules, quality and budget through:

- Composition of the technical team and the qualifications and ability of the individuals assigned to the project.
- The ability to mobilize and begin effective field operations and verification quickly.
- A well thought-out program and methodology utilizing sound international engineering and economic practices.
- The management and coordination of the work to meet the required standards of quality and in conformity with Government of Kenya.
- Open and clear communications and liaison between all the partners / stakeholders of the Project and a synchronized approach of full cooperation with the client.

Construction management

- We assist with drawing contract agreement between the client and contractor in conjunction with Quantity Surveyor.
- Inspecting and testing during manufacture and installation of specialist work.
- Advise client on appointment of site staff and offices.
- Provision of any further design and drawings as and when necessary.
- Examine any contractor's proposal such as alternative design and methods of construction including location of construction
- Joints and workshop drawings.
- Carry out site inspections and attend site meetings.
- Prepare progress reports as agreed and assist the quantity surveyor prepare financial appraisals.
- Examine and process the contractor's payment certificates pertaining to civil works.
- Prepare as built drawings, issue records of all instructions given to the contractor, issue a final inspection report and maintenance schedule.
- Resolve disputes which may arise between Client and Contractor.
- Prepare a construction completion report

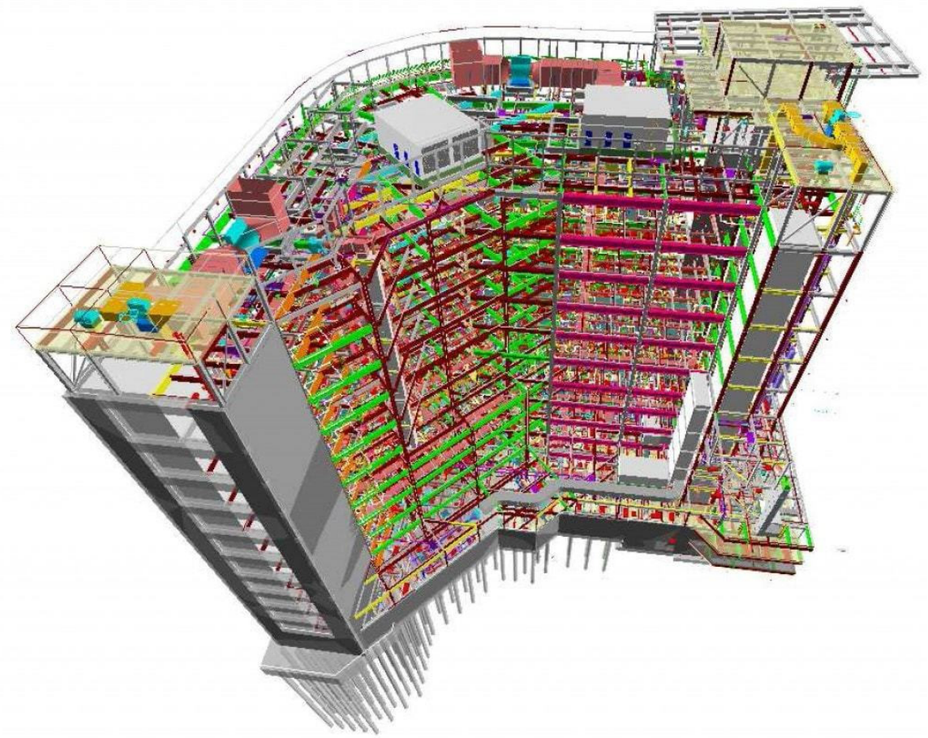
Building Information Modelling - BIM

The detailed construction drawings shall are developed from the member sizing and structural system layout using 3D software's in collaboration with Architectural designs and other consultants.
A general arrangement layout for foundations, beams, slabs and columns are made from which form work layout can be evaluated by the Quantity Surveyor and constructed by the contractor.

Detailed reinforcement concrete drawings, structural steel and timber drawings where necessary are modelled. The bar bending scheduled for reinforcement concrete shall be automatically derived by the software with steel quantities.
The roof construction general layout, truss details and jointing are prepared together with the holding down requirements.

All drawings shall have the requisite specifications and notes to ensure they fully describe the works in the bills of quantities. The drawings having been done on the computer can be presented in any size and exchange of information between the Consultant, Client and Suppliers of specialist fitment shall be effective and smooth.

Building Information Modeling is an intelligent model-based process that provides value across the life-cycle of a project. The BIM process involves creating and using an intelligent (3D) model to inform and communicate project decisions. A process shift to Building Information Modeling (BIM) fundamentally improves the way we plan, design, build and manage our projects.



Technology

CPS has invested heavily on technology and has acquired the state of the art Building Information Modeling incorporating the following software:-

Revit Structure:
3-D analysis of structural frames

ROBOT Structural Analysis
Structural frames design

AutoCAD Structural Detailing
For the detailing of structural elements

CIVIL 3D
For the design of civil works elements such as

- water reticulation
- sewerage
- reticulation
- highway geometric
- pavement design
- pumping stations

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

01.TEAM QUALIFICATIONS

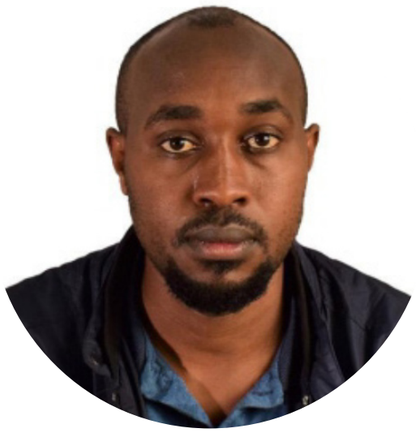
COMPANY PROFILE | 2025

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

Eng.Gideon Kamande

Managing Director & Co-founder

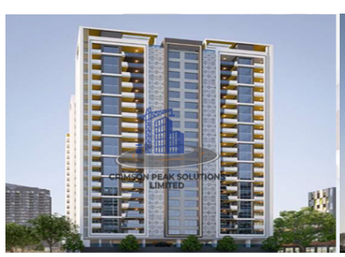
PE, MIEK



Born and brought up in Kenya, Eng. Gideon studied Civil Structural Engineering at the University of Nairobi (UoN)
Further undertook Masters in Construction Management (MBA) at the same university.

He worked for a top tier engineering consulting firm for four years before setting up his own design practice,
Crlmson Peak Solutions Ltd in 2017.
He has been involved in the design of a wide range of corporate, civil and institutional projects that have helped to redefine and enhance urban environments.
He approaches each project as a unique opportunity to explore ideas od physical and social context, program, sustainability, space and form making.
His wide range design knowledge formed an integral part to the firm's development of its BIM capabilities and 3D interrogation of design.
He is also conversant in project, construction and contract management.

He is registered by the Engineers Board of Kenya (EBK) as a Professional Engineer and a Corporate member of
Institute of Engineers Kenya (IEK)



EXPERIENCE
JAN 2017- Present
Managing Director at Crimson Peak Solutions Limited
JAN 2013- Present
Associate Director at GCL Consultants Ltd
DETAILED TASKS ASSIGNED ON CONSULTANT'S TEAM OF EXPERTS.
Proposed rehabilitation of the Extisting Passenger Terminal Facilities at Jomo Kenyatta Internation Airport Nairobi, JKIA Remodelling of Terminal T1-B,C,D and Central processor under Sub-Contractor from APEC Consortium, Cost Ksh 40 Billion
Proposed Sultan Palace for Golden Gulf International -Mombasa Housing Kshs 7 Billion
Proposed Tracom Mixed (Hotel-Office) Utility Facility along Thika Super Highway, Nairobi, Ksh 2 Billion
Proposed Rehabilitation Works and Improvement of Enviros for Almasi Bottlers Ltd- Eldoret Branch Kshs 3 Billion
Proposed Rehabilitation Works and Improvement of Enviros for Almasi Bottlers Ltd-Nyeri Branch Kshs 2.5 Billion.
Proposed Affordable Housing Development in Kisumu for Lapfund on plot LR. Nos Kisumu
Municipality Blocks 5/360, 5/362, 5/364, Kisumu County, Kshs 5 Billion.
Rehabilitation of Kipchoge Keiono Stadium in Eldoret, Uasin Gishu County, Cost Ksh. 750 Million.
Rehabilitation of Kamariny Stadium in Iten, Elgeyo Marakwet County, Cost Kshs. 300 Million.
County Headquarters, Governor's residence and Deputy Governor's Residence, in Wote- Makueni County.Cost Ksh. 350 Million.
Proposed Spring Green Serviced Apartments on Rose Avenue for Britam properties. Cost Ksh. 750 Million
Hospital block to house expansion of Radiant Hospital in Kiambu, for Mrs Jane N. Karume. Cost Ksh. 250 Million.
Proposed Kalamba Fruit Processing Plant in Wote- Makueni county. Cost Kshs. 650 Million.
Proposed Modern Building for West Pokot County Assembly . Cost Kshs. 398 Million.
Proposed Tepesi Heights Apartments 300 Million
Proposed West Pokot heights, 400 Million.
Proposed supply, testing, training and commisioning of 27 solar powered high mast flood lights in selected urban centres within Wote municipality-58 Million

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

Personal Information
Nationality - Kenyan
Tel: +254 712 888 597
Email: gideonkamande@cpskenya.com

Education
Masters in Construction Management.
B.Sc. Civil Engineering.

Registration & Licensing
The Engineering Registration Board (ERB) , Kenya.
Civil Structural Eng Member No. A3666
The Institution Of Engineers of Kenya
Corporate Member No. M7185

Eng.Abdilaziz Ali

GE, GMIEK, PMP

Engineer & Co-founder

Eng. Abdilaziz Ali is a skilled Project Engineer at Crimson Peak Solutions Ltd, with a degree in Civil Engineering from Kenyatta University. He has also completed the Project Management Professional (PMP) course at the Project Management Institute, enhancing his project management skills.
In his role as Lead Project Engineer, Eng.Abdilaziz has excelled in Planning an delivering construction projects. His responsibilities include coordinating schedules, managing resources and ensuring efficient project execution. He is known for his proactive approach and attention to detail.
Eng. Abdilaziz works closely with clients and consultants fostering strong relationships to achieve project success. His expertise and commitment to excellence have significantly contributed to the success of Crimson Peak Solutions Ltd, ensuring the delivery of top-tier construction services.

EXPERIENCE
JAN 2022- Present
Project Manager at Crimson Peak Solutions Limited
Feb 2021 - Dec 2021
Junior Structural Engineer at Kenya Urban Roads Authority
July 2019 - Jan 2021
Assistant Civil Engineer at Kenya Urban Roads Authority
May 2018 - Aug 2018
Junior Engineering Volunteer

TECHNICAL TRAINING
Project management and capacity building
Resilient and durable solutions
Construction site coordination and management
Supervisory skills and leadership
Principles of occupational health and safety management system

DETAILED TASKS ASSIGNED ON CONSULTANT'S TEAM OF EXPERTS.
Proposed Ajmal Towers - Kileleshwa
Proposed California Twin Towers - Eastleigh
Proposed Amani Residency
Proposed Tarteeb apatments - Pangani
Proposed Ajmal Pavilion - Parklands
Proposed Hamza Apartments
Proposed Makupa markets

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

Personal Information
Nationality - Kenyan
Tel: +254 727 372 890
Email: Abdilazizali3462@gmail.com

Education
Bachelor of Science : Civil and structural engineering
Kenyatta University - Nairobi, Kenya

Certificate : AutoCAD, ArchiCAD, Civil 3D
Design and construction Institute - Bells Institute of Technology

02. RESIDENTIAL PROJECTS

COMPANY PROFILE | 2025

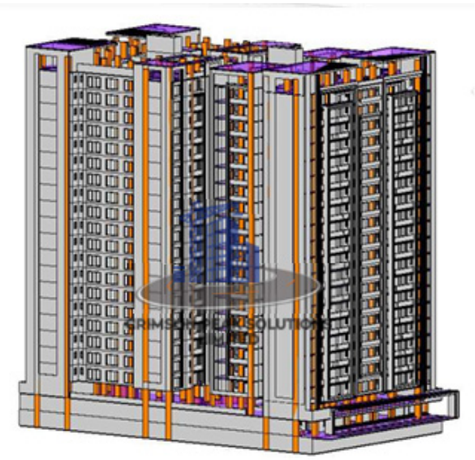
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

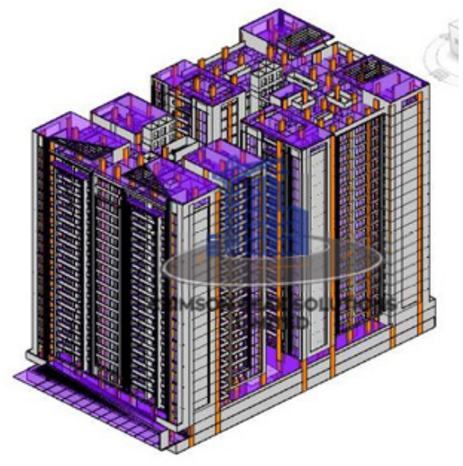
PROPOSED AJMAL TOWERS - KILELESHWA

NO. OF FLOORS : **24 - 1 Level Basement (2 Blocks)**
PROJECT STATUS : **Design Stage**

Architectural Model

Structural Drawings





PROPOSED CALIFORNIA TWIN TOWERS - EASTLEIGH

NO. OF FLOORS : **18 - 1 Level Basement (2 Blocks)**
PROJECT STATUS : **Construction Stage**

Architectural Model

Structural Drawings

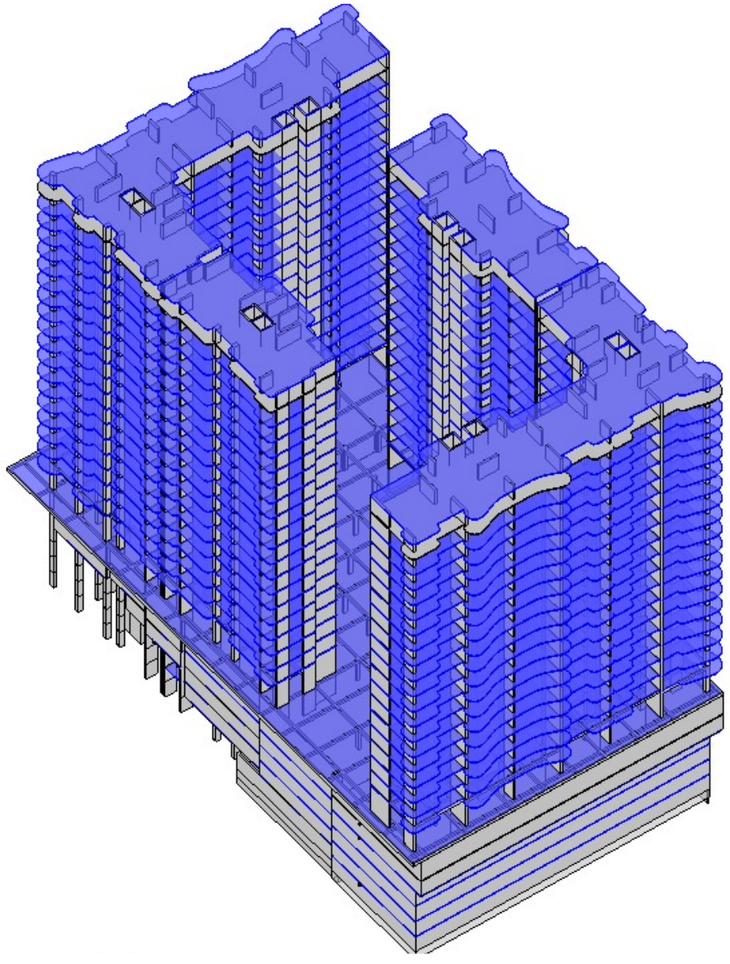
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

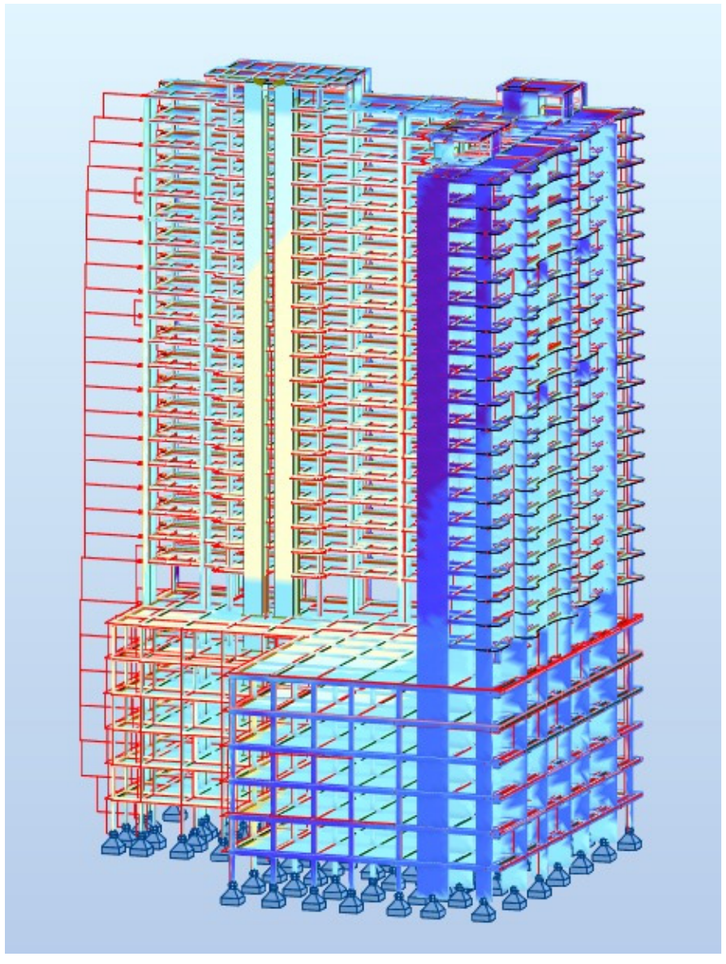
PROPOSED AMANI RESIDENCY - PARKLANDS

NO. OF FLOORS : **36 Floors, 6 Basements**
PROJECT STATUS : **Design Stage**

Architectural Model

Structural Model





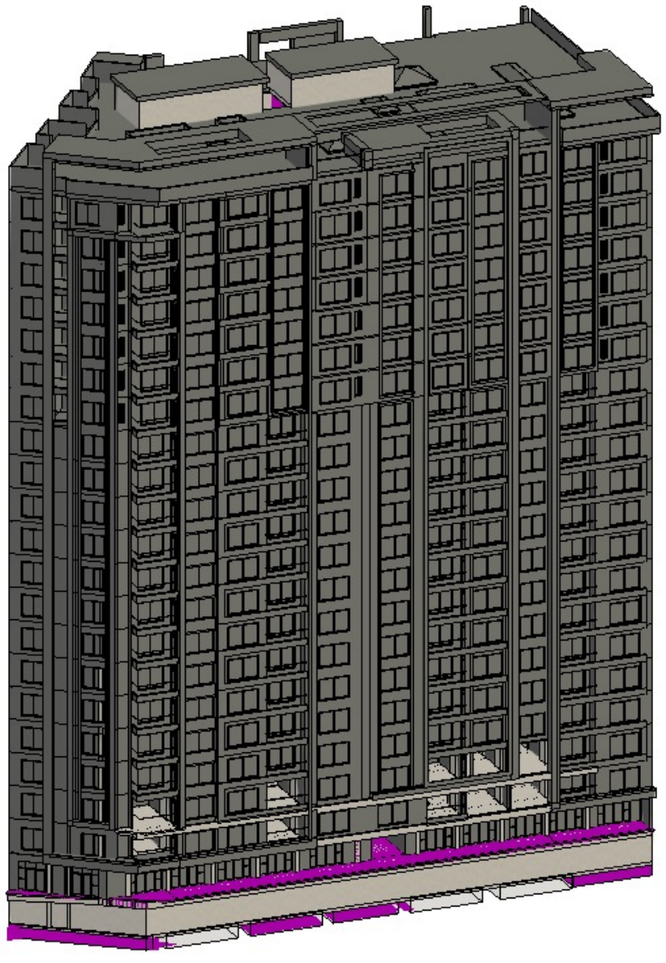
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED TARTEEB APARTMENTS - PANGANI

NO. OF FLOORS : **20 Floors**
PROJECT STATUS : **Construction Stage**

Architectural Model

Site Progress



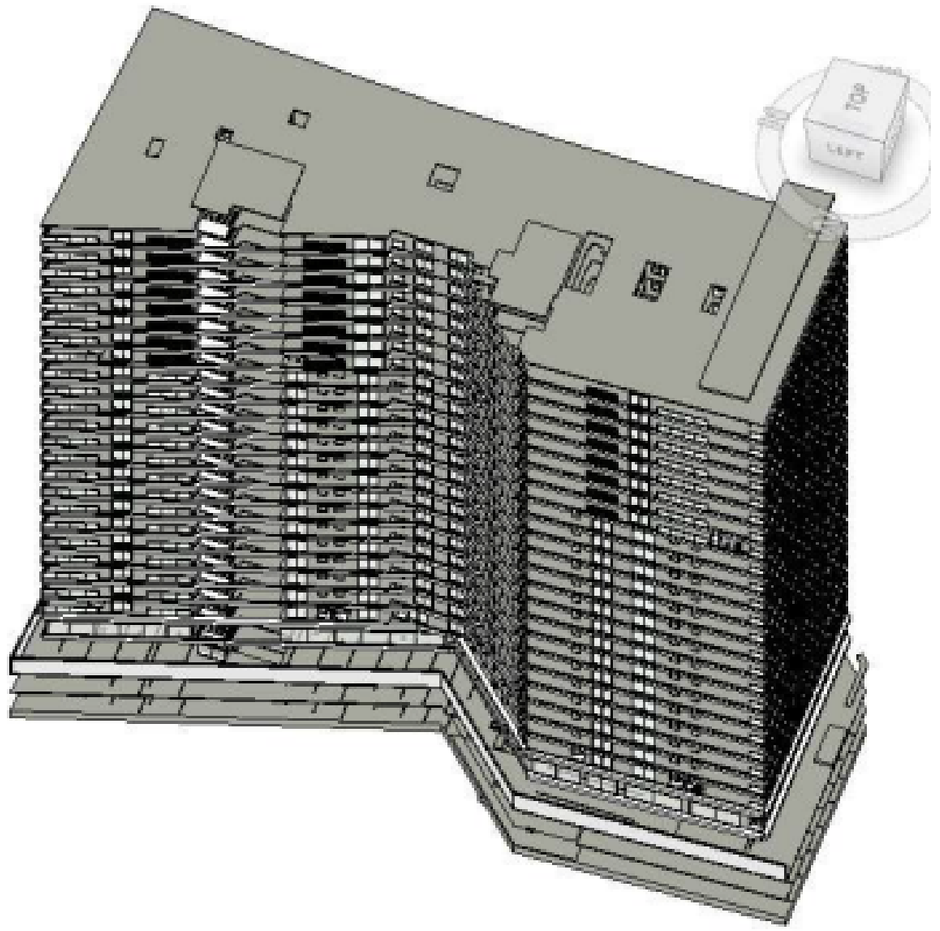
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED AJMAL PAVILION - PARKLANDS

NO. OF FLOORS : **24 - 2 Level Basement (1 Blocks)**
PROJECT STATUS : **Construction Stage**

Architectural Model

Structural Drawings



Construction Photos

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

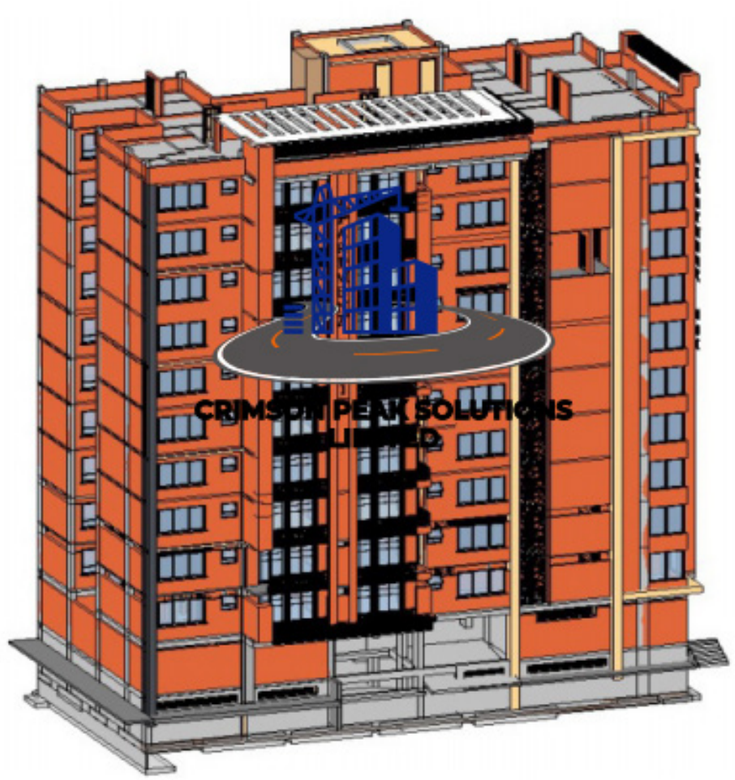
PROPOSED HAMZA APARTMENTS

Country: **Kenya**
Location: **Hamza Makadara**
Client: **Private developer**
Plot size: **0.04 acres**
Gross Area: **3,973.39m2**
Project Cost: **Kshs. 220M**
Involvement: **Design and Build**
No. Of Floors: **11**

Features:
Ample parking space in the basement and ground floor, spacious 1&2 bedroom units + studio units. Lift access in all floors and a back up generator

Architectural Model

Structural Drawings

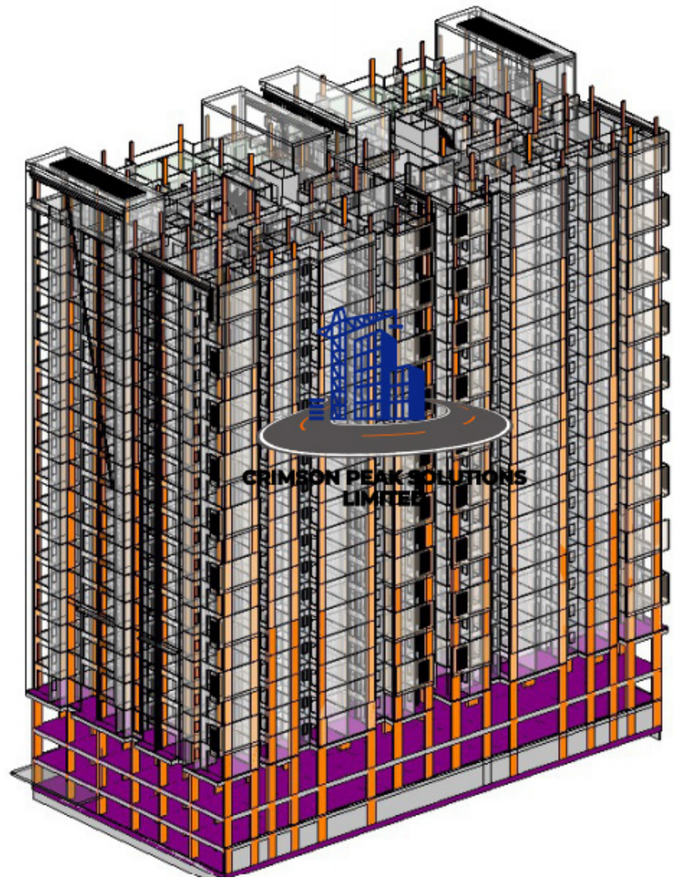


PROPOSED APARTMENTS - PANGANI

NO. OF FLOORS : **18 - 2 Level Basement (2 Blocks)**
PROJECT STATUS : **Design Stage**

Architectural Model

Structural Drawings

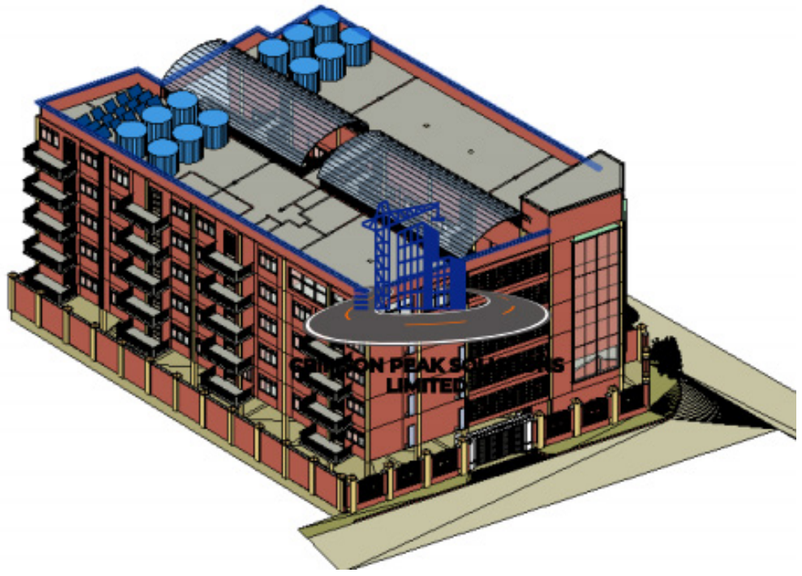


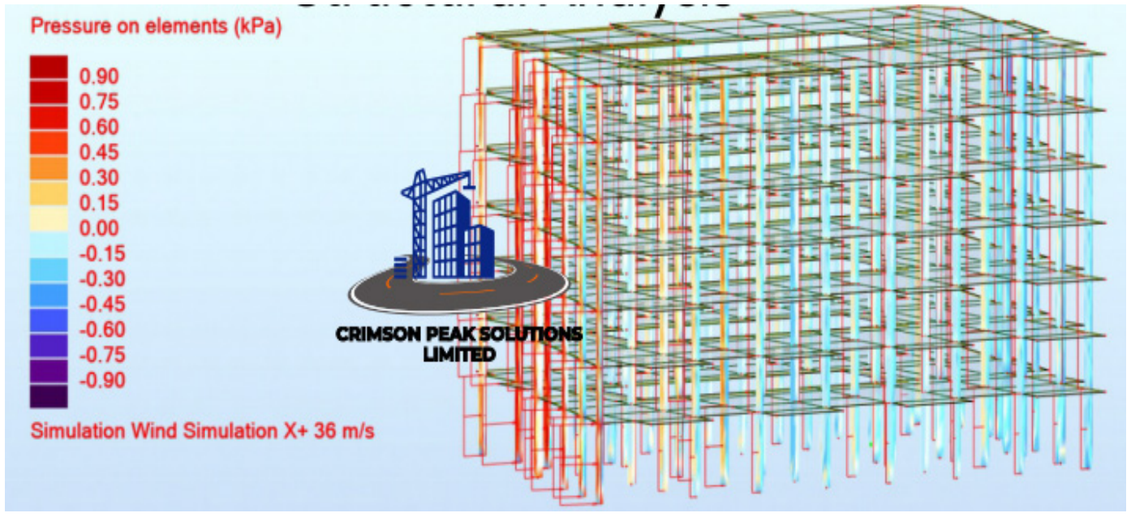
PROPOSED RESIDENTIAL DEVELOPMENT - RONGAI

PROJECT STATUS : **Construction Stage**
BUILD UP AREA **: 10,000 sqm**

Architectural Model

Structural Drawings





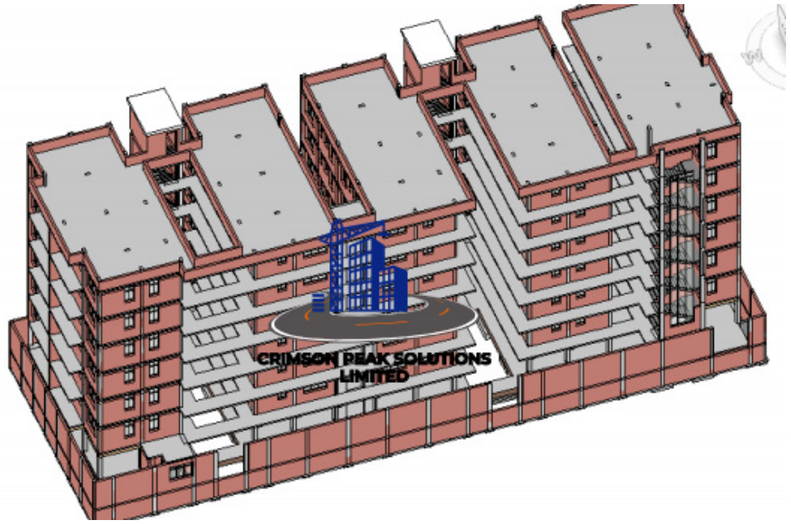
CRIMSON PEAK SOLUTIONS
LIMITED
—Civil Structural Engineers—

PROPOSED APARTMENTS IN RUIRU

PROJECT STATUS : **Construction Stage**
BUILD UP AREA **: 7,000 sqm**

Architectural Model

Structural Drawings



Site Photos

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LIMITED
—Civil Structural Engineers—

PROPOSED APARTMENTS IN RONGAI

PROJECT STATUS : **Construction Stage**
BUILD UP AREA **: 5,000 sqm**

Architectural Model

Site Progress

CRIMSON PEAK SOLUTIONS
LIMITED
—Civil Structural Engineers—

PROPOSED RESIDENTIAL DEVELOPT - KIKUYU MUGUGA

PROJECT STATUS : **Construction Stage**
BUILD UP AREA **: 14,000 sqm**

Architectural Model

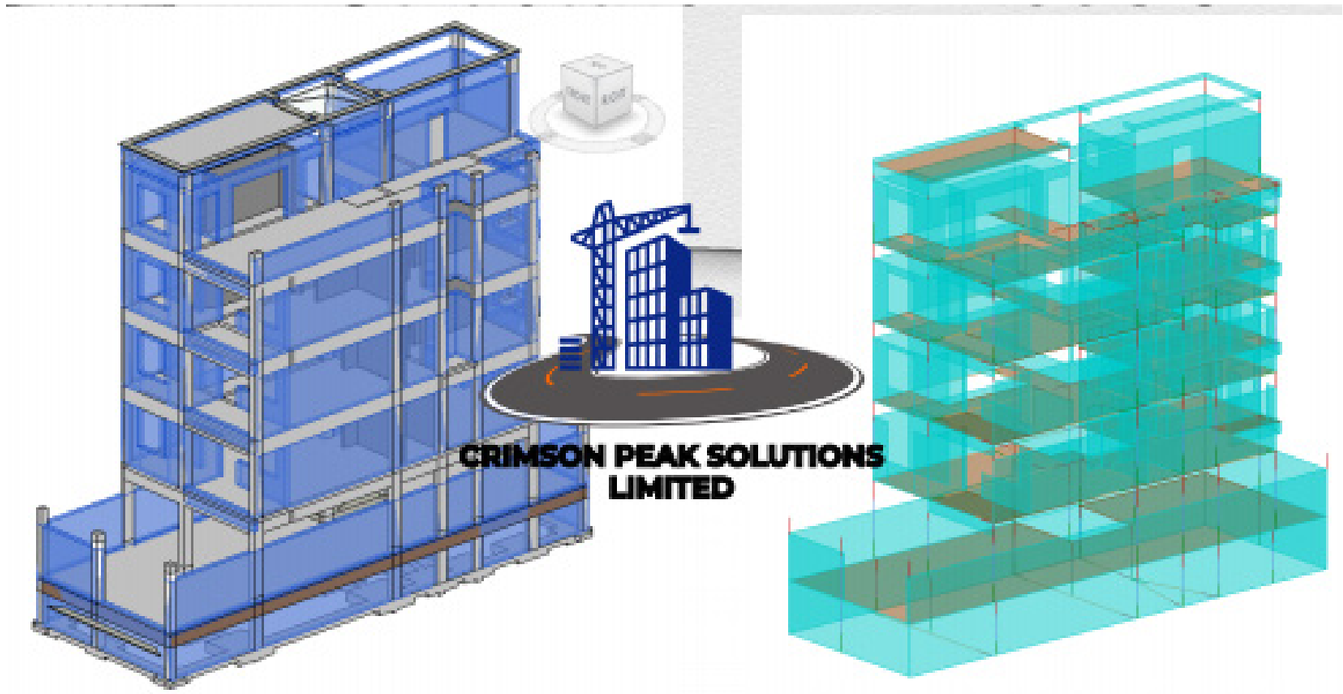
Site Progress

PROPOSED RESIDENTIAL DEVELOPMENT - SOUTH C

PROJECT STATUS : **Ongoing**
BUILD UP AREA **: 5,000 sqm**

Architectural Drawings

Structural Drawings

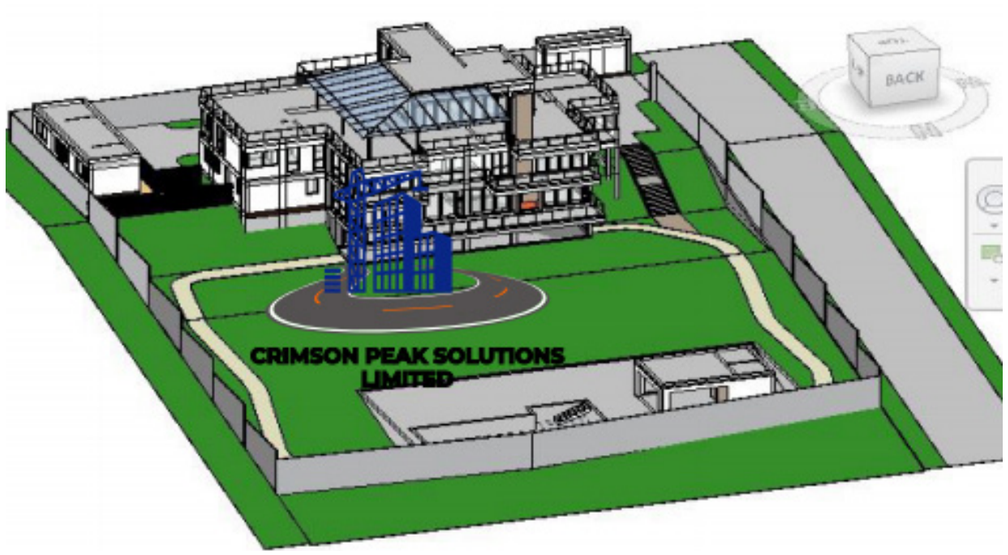


PROPOSED RESIDENTIAL DEVELOPMENT IN TATU CITY

PROJECT STATUS : **Construction Stage**
BUILD UP AREA **: 17,000 sqm**

Architectural Drawing

Structural Drawings



Site Photos

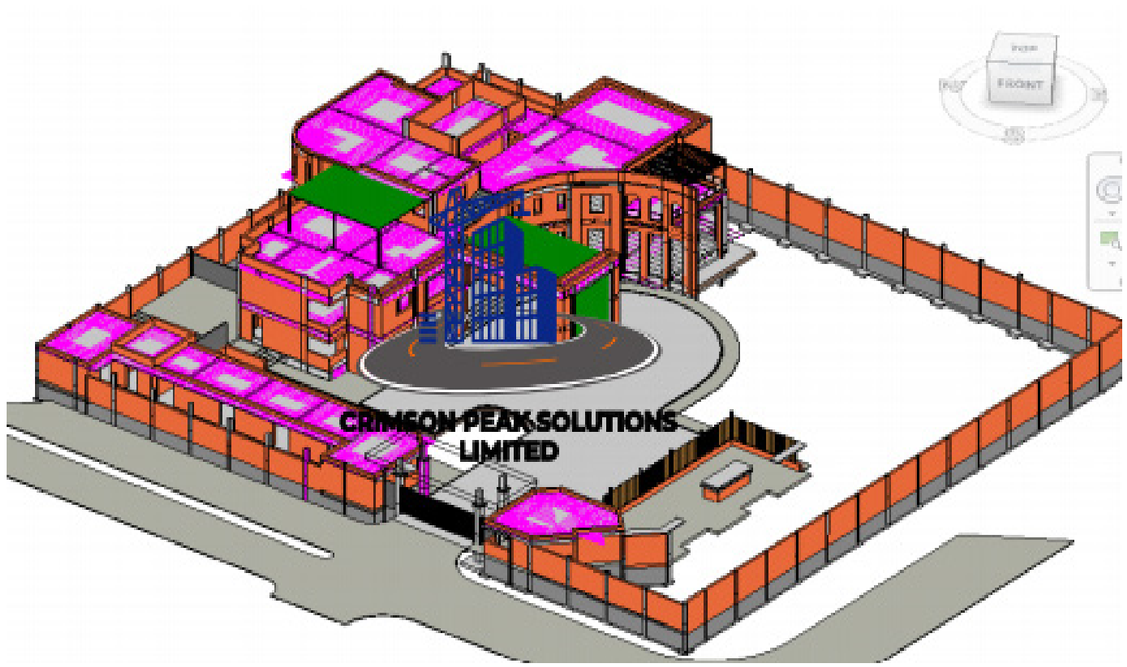
CRIMSON PEAK SOLUTIONS
LIMITED
—Civil Structural Engineers—

PROPOSED RESIDENTIAL DEVELOPMENT IN KAREN - WINDY RIDGE

PROJECT STATUS : **Construction stage**
BUILD UP AREA **: 3,000 sqm**

Architectural Drawings

Structural Drawings



Site Photos

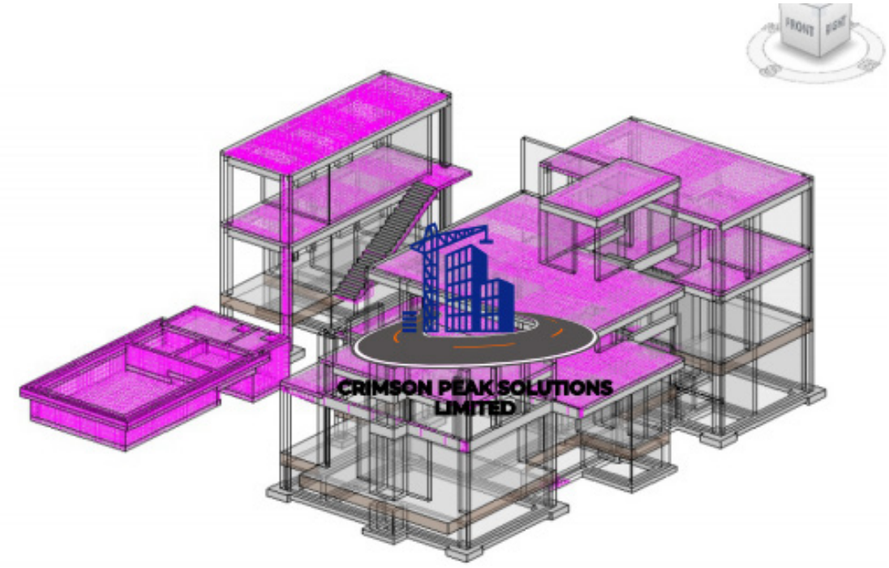
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED RESIDENTIAL HOUSE -TIGONI

PROJECT STATUS : **Ongoing**
BUILD UP AREA **: 3,000 sqm**

Architectural Drawing

Structural Drawings



Site Progress

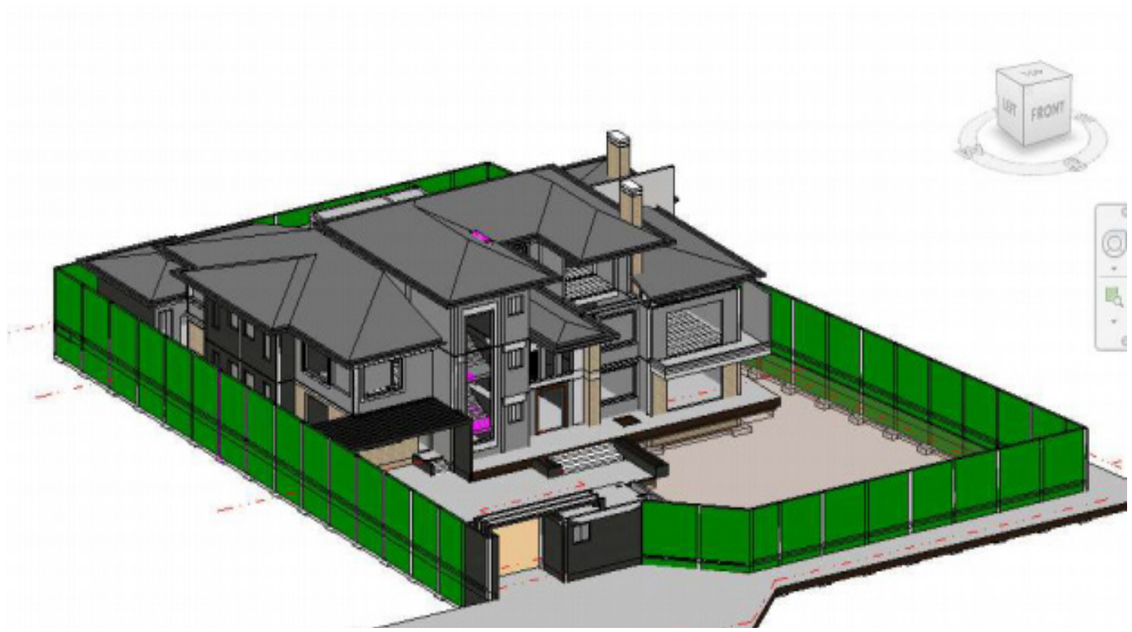
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED RESIDENTIAL DEVELOPMENT ON KAREN

PROJECT STATUS : **Design stage**
BUILD UP AREA **: 1,250 sqm**

Architectural Drawings

Structural Drawings



CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED RESIDENTIAL DEVELOPMENT IN KAREN - NDOVU CLOSE

PROJECT STATUS : **Ongoing**
BUILD UP AREA **: 3,000 sqm**

Architectural Drawing

Structural Drawings

Site Progress

PROPOSED ONE & TWO BEDROOM APARTMENT

PROJECT STATUS : **Design Stage**
BUILD UP AREA **: 1,000 sqm**

Architectural Drawings

Structural Drawings

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

03. COMMERCIAL PROJECTS

COMPANY PROFILE | 2025

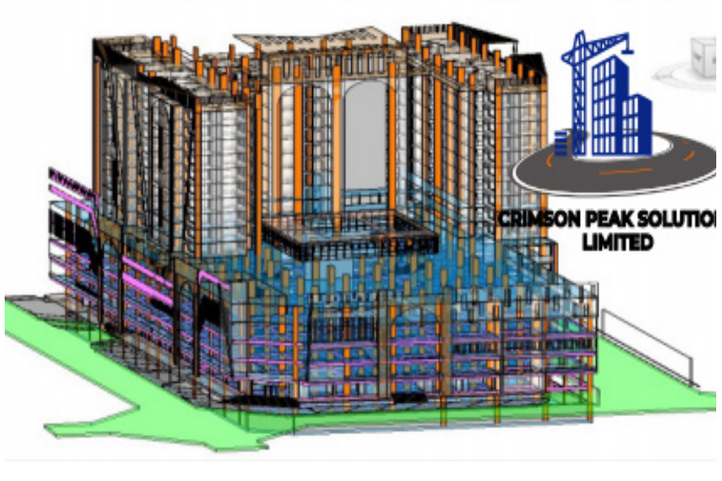
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

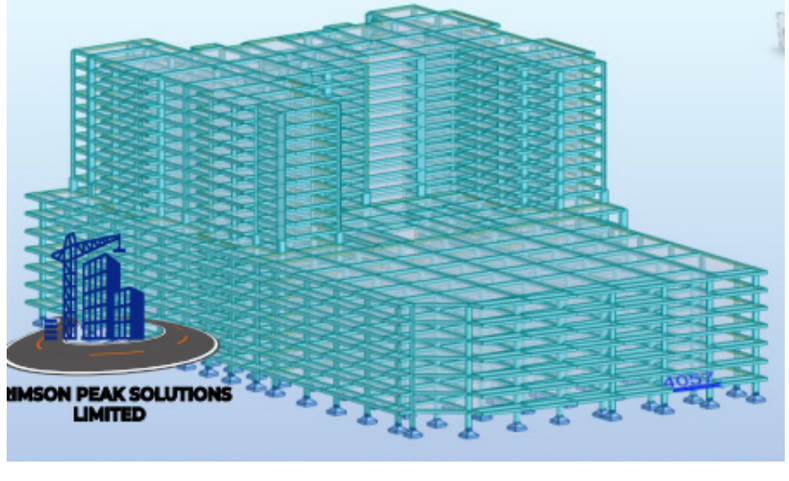
PROPOSED MAKUPA MARKETS

Country: **Kenya**
Location: **Makupa, Mombasa County**
Client: **Mombasa County Government**
Plot size: **0.142 Hectares**
Gross Area: **16,614.6 m2**
Project Cost: **Kshs. 1.02B**
Involvement: **Design and Supervision**

Features:
Market & Apartments.
Market.
Basement and lower ground floor parking ground.
Ground floor with assorted meat products.
First Floor with assorted cereals & Vegetables.
Second floor with assorted clothing and textile products.
Third floor with assorted house hold utensils, general Marchant and electrical products.
Fourth floor with social hall, food court, banking hall, stalls, abulition block and day care.
Fifth Floor, Open terrace with Prayer rooms.

Apartments
80, 2 Bedrooms units of 82 m2 / unit
20, 3 bedroom units of 130m2 / unit.





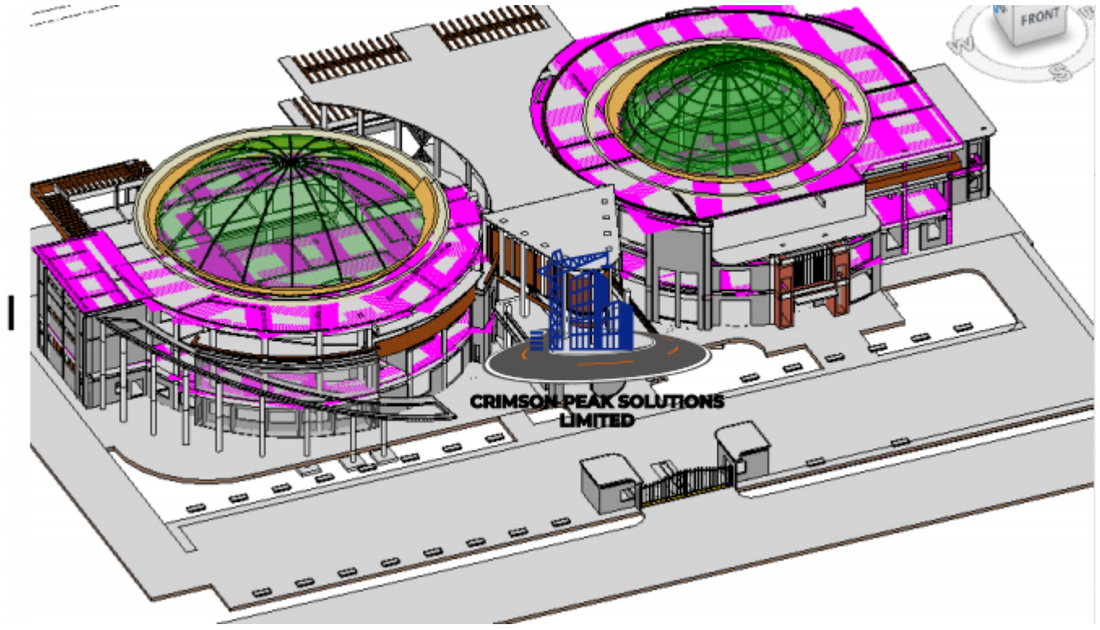
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED INNOVATION HUB

BUILD UP AREA : **50,000 Meters SQM.**
PROJECT STATUS : **Conceptual Stage**

Architectural Model

Structural Drawings



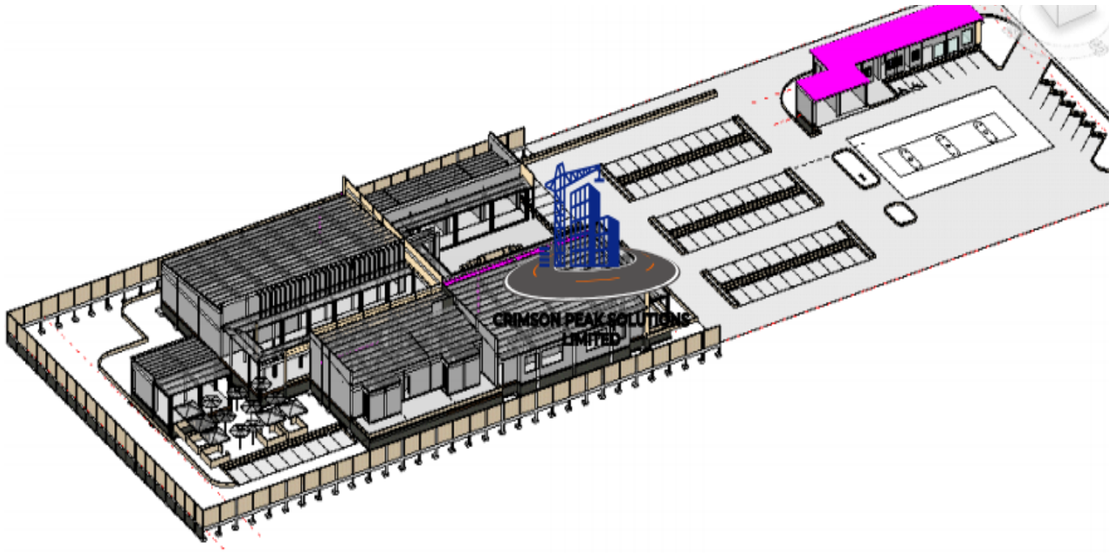
CRIMSON PEAK SOLUTIONS
LIMITED
—Civil Structural Engineers—

PROPOSED RETAIL STOP NAKURU

BUILD UP AREA : **8,000 Meters SQM.**
PROJECT STATUS : **Conceptual Stage**

Architectural Model

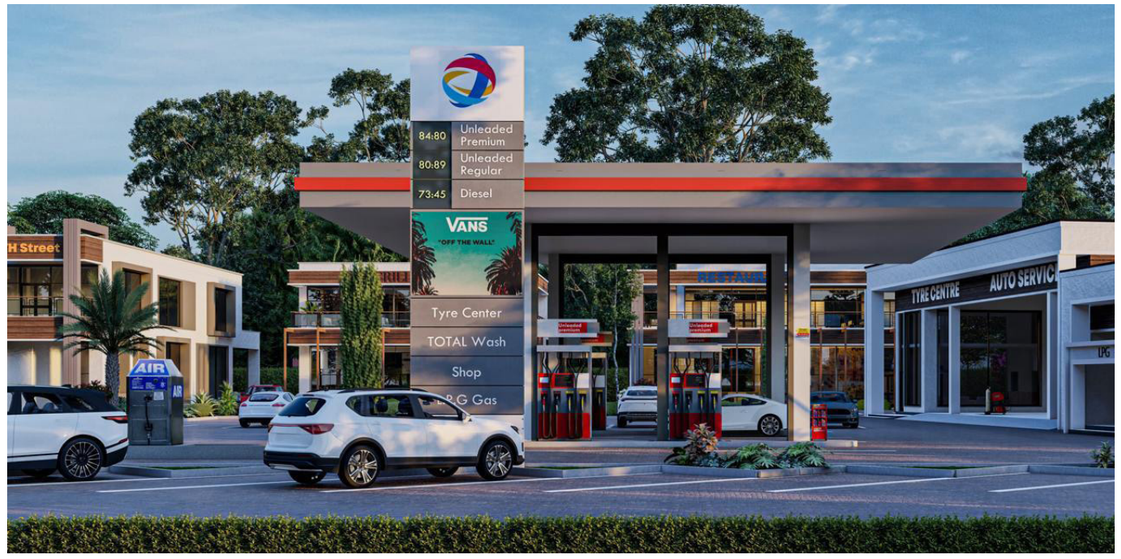
Structural Drawings



WINDSOR BUSINESS PARK AND TOTAL PETROL STATION

BUILD UP AREA : **--**
PROJECT STATUS : **Construction Stage**

Architectural Model



CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

CRIMSON PEAK SOLUTIONS
LIMITED

04. INDUSTRIAL PROJECTS

COMPANY PROFILE | 2025

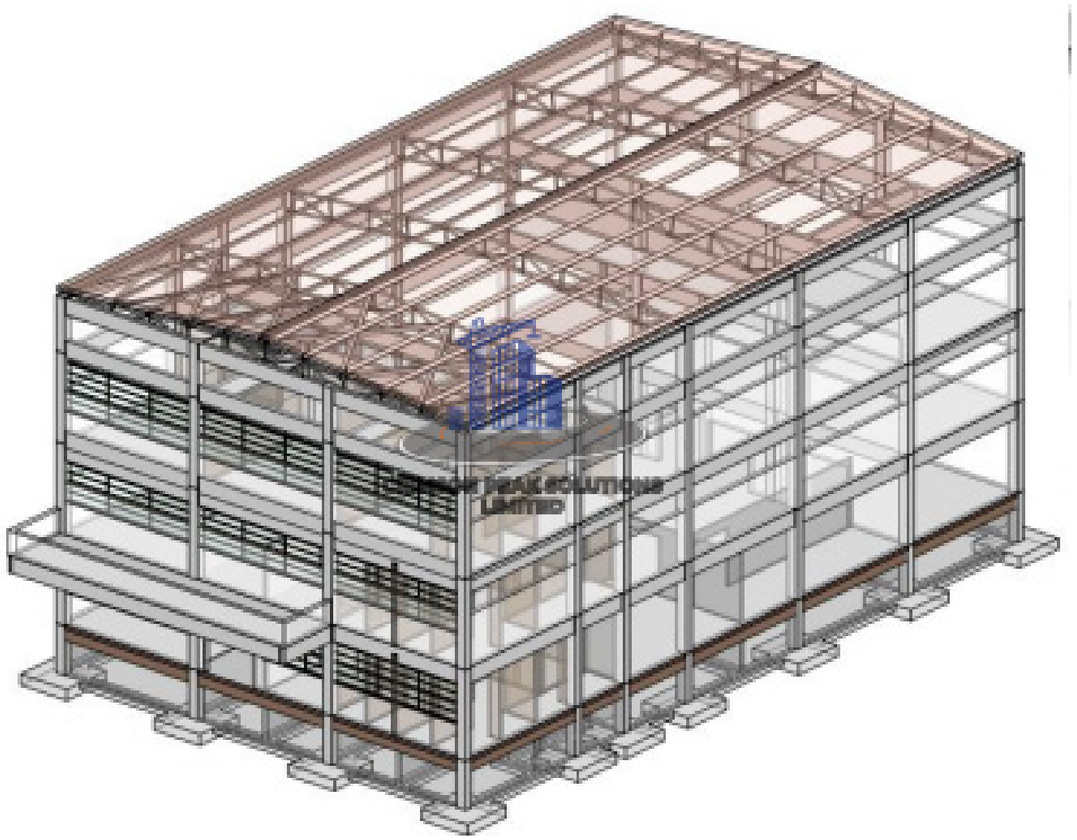
CRIMSON PEAK SOLUTIONS
LIMITED
—Civil Structural Engineers—

PROPOSED WAREHOUSES

BUILD UP AREA : **3,000 Meters SQM.**
PROJECT STATUS : **Ongoing**

Architectural Model

Structural Drawings

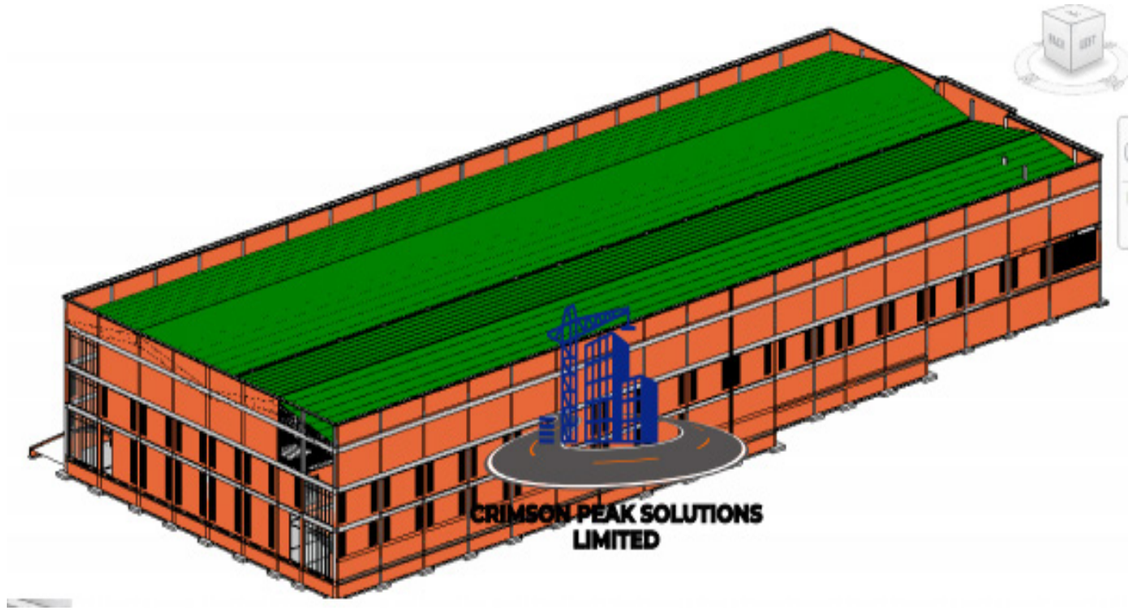


PROPOSED MANUFACTURING PLANT

BUILD UP AREA : **17,000 Meters SQM.**
PROJECT STATUS : **Construction Stage**

Architectural Model

Structural Drawings



05. RELIGIOUS BUILDINGS

COMPANY PROFILE | 2025

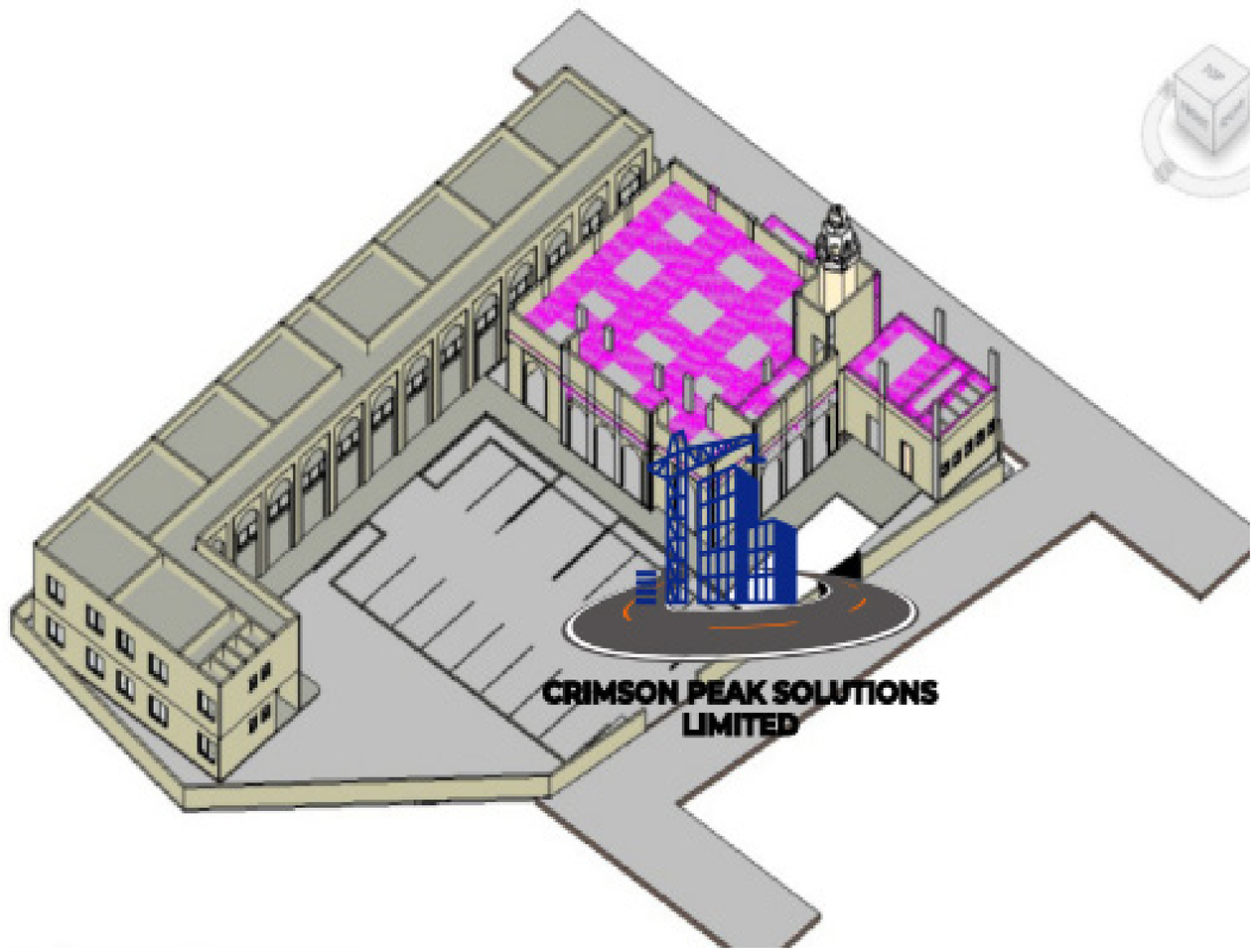
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED MOSQUE AND MADRASSA IN GARISSA

BUILD UP AREA : **6,500 Meters SQM.**
PROJECT STATUS : **Construction Stage**

Architectural Model

Structural Drawings



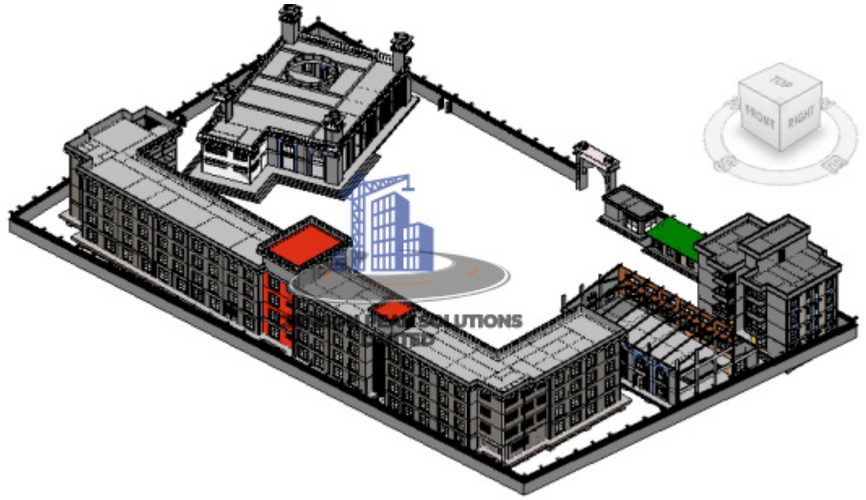
CRIMSON PEAK SOLUTIONS
LIMITED
—Civil Structural Engineers—

PROPOSED MOSQUE & SCHOOL IN KILIFI

BUILD UP AREA : **32,000 Meters SQM.**
PROJECT STATUS : **Construction Stage**

Architectural Model

Structural Drawings



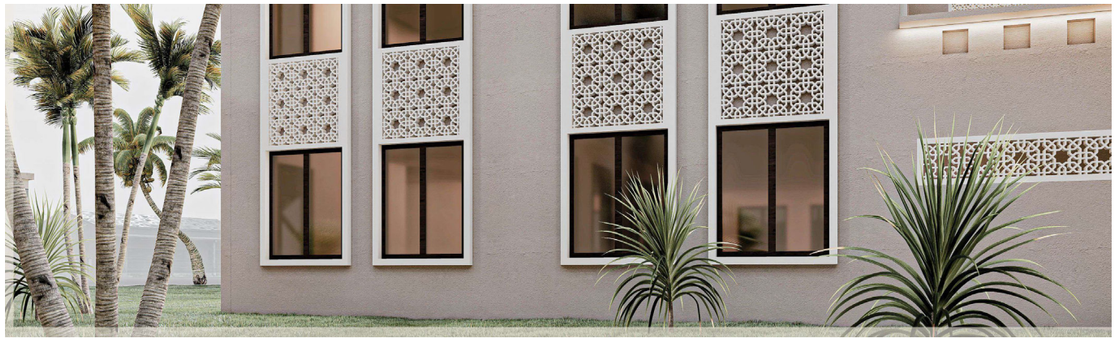
Site Progress

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED MOSQUE IN MOGADISHU

BUILD UP AREA : **--**
PROJECT STATUS : **Construction Stage**

Architectural Model



CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED ISEBANIA MOSQUE - MIGORI

BUILD UP AREA : **--**
PROJECT STATUS : **Construction Stage**

Architectural Model

Site Photos

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED BURA JAMIA MOSQUE - GARRISSA

BUILD UP AREA : **--**
PROJECT STATUS : **Construction Stage**

Architectural Model

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

06. HEALTH FACILITIES

COMPANY PROFILE | 2025

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

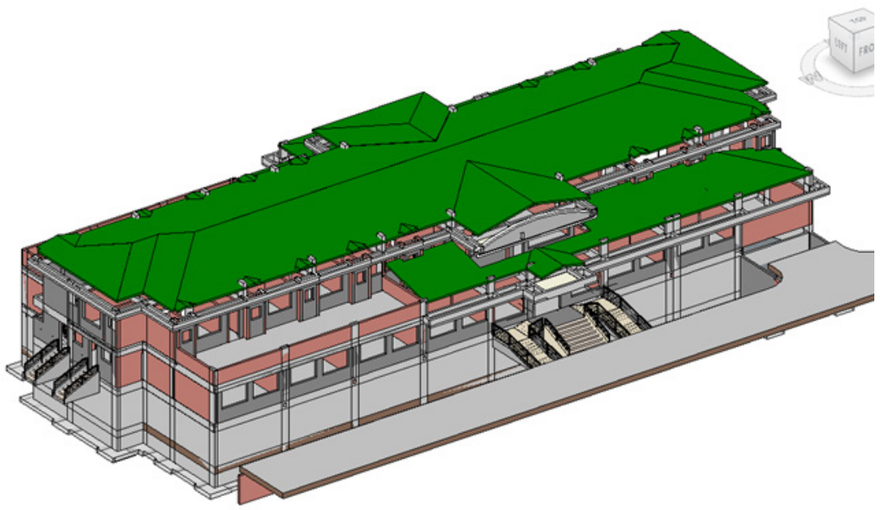
PROPOSED WARD & ADMIN BLOCK FOR MOTHER ANGELA HURUMA HOSPITAL, Nanyuki - Laikipia County

BUILD UP AREA : **5,000 Meters SQM.**
PROJECT STATUS : **Construction Stage**

Architectural Model

Site Progress

Structural Model



CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

07. GEOTECHNICAL SURVEYS

COMPANY PROFILE | 2025

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

Geotechnical Survey Services

At Crimson Peak Solution Limited, we recognize that every successful construction project begins with a thorough understanding of the ground beneath it. Based in Kenya and operating across the region, we provide comprehensive Geotechnical Survey services tailored to support safe, cost-effective, and sustainable project development across residential, commercial, industrial, and infrastructure sectors.

Our geotechnical division employs advanced investigation techniques and industry-standard practices to assess subsurface conditions, soil behavior, and geological risks. By gathering critical geotechnical data, we help our clients make informed decisions during the planning, design, and construction phases.

Our Core Geotechnical Capabilities Include:

- Site Investigation & Soil Analysis: Borehole drilling, test pits, Standard Penetration Tests (SPT), Cone Penetration Tests (CPT), and soil sampling to determine bearing capacity, compaction characteristics, and classification.

- Laboratory Testing: Soil and rock testing including Atterberg limits, particle size distribution, moisture content, shear strength, consolidation, and permeability analysis.

- Foundation Recommendations: Engineering evaluations to determine suitable foundation types, depth, and bearing pressure tailored to the specific site conditions.

- Slope Stability & Landslide Risk Assessments: Essential for developments in hilly or unstable terrain, particularly in counties such as Kiambu, Murang'a, and parts of Rift Valley.

- Groundwater & Drainage Studies: Evaluation of water table levels, seasonal fluctuation risks, and drainage patterns to inform structural and environmental planning.

- Pavement Subgrade Investigations: Support for road and infrastructure projects to ensure long-term durability and performance.

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED AJMAL TOWERS - KILELESHWA

NO. OF FLOORS : **24 - 1 Level Basement (2 Blocks)**

Geotechnical Survey

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED AJMAL PAVILION - PARKLANDS

NO. OF FLOORS : **24 - 2 Level Basement (1 Blocks)**

The scope of work of present contract includes the following:

- Exploration of the subsurface conditions at various locations of proposed foundation sites and conduct requisite in-situ tests. The total quantity of soil investigation included 2No. boreholes each at 20m deep.
- Limited laboratory testing of representative samples obtained during the field investigation to evaluate relevant engineering parameters of the subsurface soils.
- Engineering analysis.
- Preparation of this report includes:
- Drill logs
- Results of laboratory test
- Assessment of bearing capacity
- Recommendations of foundation type and depth

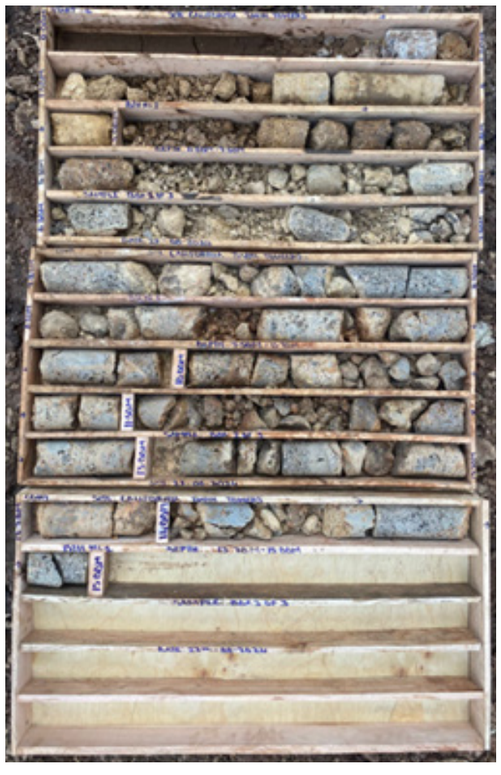
CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROPOSED CALIFORNIA TWIN TOWERS - EASTLEIGH

NO. OF FLOORS : **24 - 2 Level Basement (1 Blocks)**

The scope of work of present contract includes the following:

- Exploration of the subsurface conditions at various locations of proposed foundation sites and conduct requisite in-situ tests. The total quantity of soil investigation included 2No. Boreholes each at 15m deep.
- Limited laboratory testing of representative samples obtained during the field investigation to evaluate relevant engineering parameters of the subsurface soils.
- Engineering analysis.
- Preparation of this report includes:
- Drill logs
- Results of laboratory test
- Assessment of bearing capacity
- Recommendations of foundation type and depth



CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

GEOTECHNICAL INVESTIGATION REPORT FORPROPOSED PANGANI HEIGHTS

The scope of work of present contract includes the following:

- Exploration of the subsurface conditions at various locations of proposed foundation sites and conduct requisite in-situ tests. The total quantity of soil investigation included 2 boreholes each at 20m depths.
- Limited laboratory testing of representative samples obtained during the field investigation to evaluate relevant engineering parameters of the subsurface geotechnical material.
- Engineering analysis.
- Preparation of this report includes:
- Drill logs
- Results of laboratory test
- Assessment of bearing capacity
- Recommendations of foundation type and depth
- Assessment of bearing capacity
- Recommendations of foundation type and depth

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

GEOTECHNICAL INVESTIGATION REPORT FOR THE PROPOSED STUDIO & ONE BEDROOM APARTMENTS DEVELOPMENT ON PLOT NO LR. DAGORETTI/ KINOO/4921, KIAMBU COUNTY

The scope of work of present contract includes the following:

- Exploration of the subsurface conditions at various locations of proposed foundation site and conduct requisite in-situ tests. The total quantity of soil investigation included 3 Trial pits, each at 3.0m deep. Dynamic Cone Penetration Tests (DCP) was conducted at 3.0m depth in all the pits.
- Limited laboratory testing of representative samples obtained during the field investigation to evaluate relevant engineering parameters of the subsurface soils.
- Engineering analysis.
- Preparation of this report includes:
  - -Trial Pit soil profile
  - -Results of in-situ and laboratory test
  - -Assessment of bearing capacity
  - -Recommendations of foundation type at sample depth

SOIL INVESTIGATION REPORT FOR PROPOSED RESIDENTIAL HOUSE TITLE No. NAIROBI/BLOCK229/458

The scope of work of present contract includes the following:

- Exploration of the subsurface conditions at various locations of proposed foundation site and conduct requisite in-situ tests. The total quantity of soil investigation included 3 Trial pits, at one at 3.0m deep. Dynamic Cone Penetration Tests (DCP) was conducted at 3.0m depth in all the pits.
- Limited laboratory testing of representative samples obtained during the field investigation to evaluate relevant engineering parameters of the subsurface soils.
- Engineering analysis.
- Preparation of this report includes:
  - -Trial Pit soil profile
  - -Results of in-situ and laboratory test
  - -Assessment of bearing capacity
  - -Recommendations of foundation type at sample depth

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

08. STRUCTURAL INTEGRITY AUDITS

COMPANY PROFILE | 2025

CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

Structural integrity audits

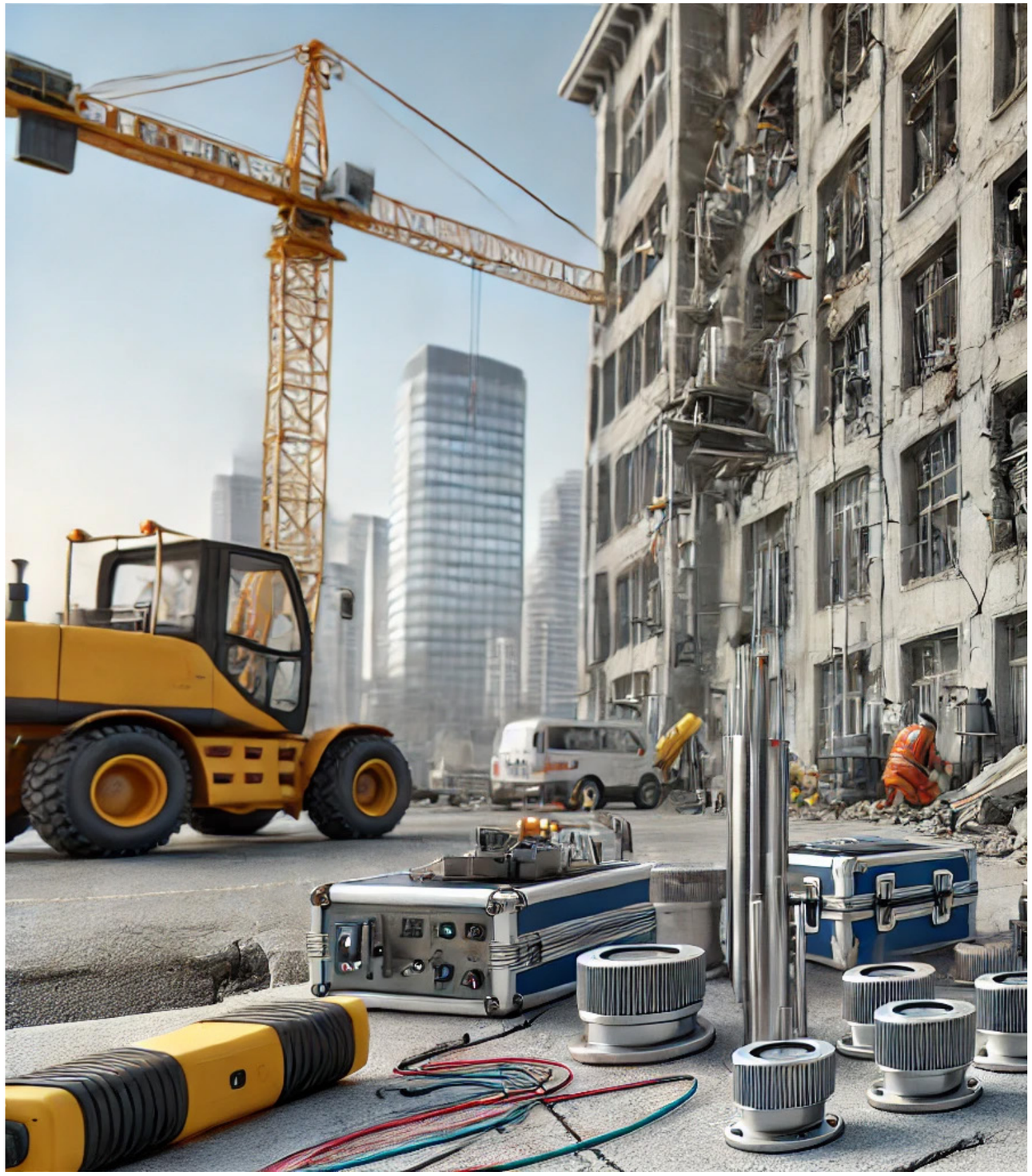
At Crimson Peak Solution Limited, we specialize in delivering comprehensive Structural Integrity Audits designed to assess, verify, and ensure the long-term safety, reliability, and compliance of buildings and infrastructure. Based in Kenya, we serve a wide range of sectors including residential, commercial, industrial, and institutional developments across the country.

Our audits involve a meticulous evaluation of existing structural systems using both visual inspections and advanced non-destructive testing (NDT) techniques. We assess the condition of key structural elements such as foundations, beams, columns, slabs, and load-bearing walls, identifying signs of stress, fatigue, deterioration, material failure, and other structural vulnerabilities.

We also evaluate structural conformity with local and international building codes, engineering standards, and environmental factors such as seismic activity, soil settlement, and corrosion due to climatic exposure. Where applicable, our team reviews structural documentation including original design drawings, construction records, and previous maintenance reports to create a comprehensive integrity profile.

Our objective is to provide clients with clear, data-driven reports that outline current conditions, potential risks, and actionable recommendations for remediation or reinforcement. These audits are crucial not only for asset preservation and operational safety but also for due diligence in property transactions, renovation projects, insurance compliance, and change-of-use evaluations.

With a team of licensed structural engineers, civil specialists, and experienced technicians, Crimson Peak Solution Limited is committed to upholding the highest standards of structural assessment, helping clients make informed decisions and extend the life cycle of their built assets.



CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

PROJECT PHOTOS

For our structural integrity audit services, see example images below;






CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—

Non Destructive Testing

PROPOSED DEVELOPMENT ON PLOT NO.KIKUYU/ KIKUYU BLK 1/484 KIDFARMACO KIAMBU COUNTY

The main objective of this study was:
To carry out an assessment of the structural integrity of the existing structure which included:

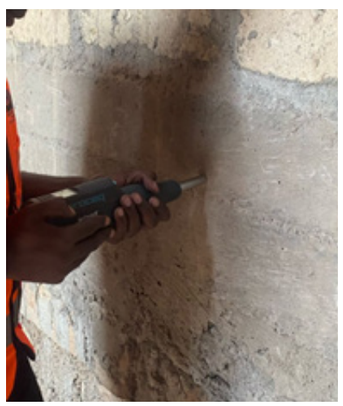
- Visual Inspection.
- Determination of the quality of concrete in the slabs, beams and columns.
- Foundation sizes measurements.

Schmidt hammer test Photos








Non Destructive Testing

PROPOSED REHABILITATION HOUSE IN GILGIL

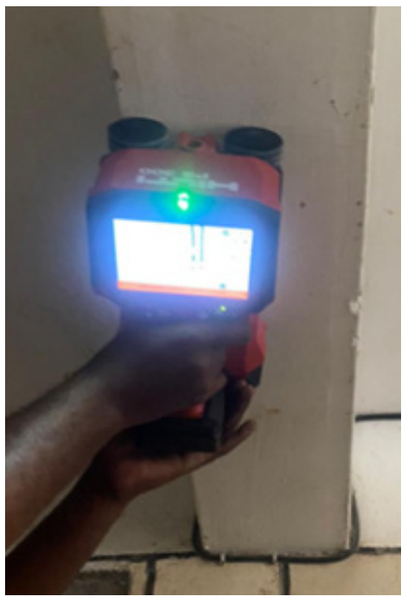
The main objective of this study was:
To carry out an assessment of the structural integrity of the existing structure which included:

- Visual Inspection.
- Determination of the quality of concrete in the slabs, beams and columns.
- Determination of the reinforcement used in the slabs, beams and columns.

STRUCTURAL NON-DESTRUCTIVE TESTS REPORT OF THE EXISTING STRUCTURAL ELEMENTS FOR DEVELOPMENT AT DONHOLM – NAIROBI KENYA

The main objective of this study was:
To carry out an assessment of the structural integrity of the existing structure which included:

- Visual Inspection.
- Determination of the quality of concrete in the slabs, beams, foundations and columns.
- Determination of the reinforcement used in the slabs, beams, foundations and columns.



COMPANY PROFILE 2025

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CRIMSON PEAK SOLUTIONS LIMITED
—Civil Structural Engineers—