



UNIVERSITY RESEARCH Co., LLC  
CENTER FOR HUMAN SERVICES



## REQUEST FOR QUOTATIONS (RFQ)

**RFQ Number:** FY24-KLA-UHA-040

**Description:** CONSTRUCTION OF A LABORATORY UNIT AT  
KAABONG HOSPITAL

**Contracting Entity:** University Research Company, LLC (URC)  
USAID Uganda Health Activity

**Funded by:** USAID

**Place of Delivery:** On Site

**Publication Date** 9<sup>th</sup> August 2024

**Deadline for Submission of Questions:** 19<sup>th</sup> August 2024

**Deadline for Submission of Quotations:** 23<sup>rd</sup> August by 2:00pm

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## **SECTION 1: INSTRUCTIONS TO OFFERORS**

### **PART 1: BID PREPARATION AND SUBMISSION PROCEDURE**

#### **1.1 Introduction**

University Research Co., LLC (URC), a US-based company working in Uganda since 2005, is implementing the URC/USAID-Uganda Health Activity [URC/USAID-UHA]. URC/USAID-UHA supports the Government of Uganda's (GOU's) efforts to increase the survival and well-being of vulnerable populations and improve overall health system resilience in seven priority regions. The program will strengthen the quality and availability of MNCH, FP/RH, nutrition, and facility-level WASH services as well as health systems at the regional, district, facility, and community-levels.

URC is hereby inviting your company to submit offers in response to this Request for Quotations (RFQ) to University Research Co., LLC under the USAID Uganda Health Activity **for the Construction of a laboratory Unit at Kaabong Hospital in Karamoja Region.**

Issuance of this solicitation does not in any way oblige URC to award a release order, nor does it commit URC to reimburse offerors for costs incurred in the preparation and submission of a proposal.

Please note that in submitting a response to this solicitation, the Offeror understands that USAID is not a party to this solicitation and the Offeror agrees that any protest hereunder must be presented in writing with full explanations to URC for consideration, as USAID will not consider protests made to it under USAID-financed awards. URC, at its sole discretion, will make a final decision on the protest.

#### **1.2 Preparation of Quotations:**

You are requested to quote for the Construction Works by completing, signing, and returning:

- i. Documents evidencing your eligibility, as listed below in Section 2.5
- ii. Quotation Submission Sheet
- iii. Conflict of Interest of Form
- iv. Work Schedule/ Program of Works
- v. A complete Bill of Quantities
- vi. Any other relevant documentation as requested for in the RFQ.

You are advised to carefully read the complete Request for Quotation (RFQ) document, including Part 3: Contract information, before preparing your Proposal.

#### **1.3 Validity of Quotations:**

The quotation validity required is **120** days from bid submission date.

#### **1.4 Sealing and marking of Quotations:**

Sealed Bids in duplicate, addressed to the **Chief of Party** shall be hand delivered to the following physical address:

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**USAID URC UGANDA HEALTH ACTIVITY  
PLOT 11 BUKOTO CRESCENT ROAD  
NAKAWA DIVISION KAMPALA  
UGANDA**

**Subject of procurement/category applied for, must be indicated on top of the envelope.**

Envelopes should be sealed in such a manner that opening and resealing cannot be achieved undetected. **The envelope shall contain 1 original (marked ORIGINAL) and 1 COPY Marked COPY)**

**1.5 Questions and Clarifications**

All questions and clarifications regarding this RFQ must be submitted in writing to [UHAProcurement@urc-chs.com](mailto:UHAProcurement@urc-chs.com) not later than 19<sup>th</sup> August 2024, 5:00pm EAT

All correspondence and inquiries regarding this solicitation must reference the RFQ Number and subject of the procurement.

Questions and requests for clarification, and the responses thereto, that the bidders believe may be of interest to other bidders, will be circulated to all RFQ recipients who have indicated an interest in bidding.

**1.6 Submission Deadline:**

Quotations should be submitted to the address above, no later than the date and time of the deadline below. Late quotations will be rejected, and Electronic Bids are not allowed.

Date of deadline: **Friday, 23<sup>rd</sup> August 2024**

Time of deadline: **2:00pm EAT.**

**1.7 Opening of Quotations:**

Quotations will be opened internally by the USAID/ URC., LLC UHA Project.

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## **PART 2: BID EVALUTAION**

The evaluation of Bids will use the Lowest Price Technically Acceptable (LPTA) Methodology. The evaluation process shall be as detailed below:

### **2.1 Methodology Used**

The evaluation methodology to be used for the evaluation of bids received shall be the Lowest Price Technically Acceptable (LPTA) Methodology

### **Summary of Methodology**

The LPTA method recommends the lowest priced bid, subject to cost realism, which is eligible, compliant, and substantially responsive to the technical and commercial requirements of the Bidding Document, provided that the Bidder is determined to be qualified to perform the contract satisfactorily.

The evaluation shall be conducted in three sequential stages –

- (a) a preliminary examination to determine the eligibility of bidders and the administrative compliance of bids received.
- (b) a detailed evaluation to determine the commercial and technical responsiveness of the eligible and compliant bids; and
- (c) a financial comparison to compare costs of the eligible, compliant, responsive bids received, determine price realism and ultimately the best evaluated bid.

Failure of a bid at any stage of the evaluation shall prevent further consideration at the next stage of evaluation. Substantial responsiveness shall be considered a pass.

### **2.5 Eligibility Criteria:**

You are required to attach the following documentation as evidence of your eligibility:

- (a) Identifiable physical office location
- (b) a copy of the Bidder's Valid Trading License 2024
- (c) a copy of a Certificate of Incorporation/Registration
- (d) a copy of the bidder's valid Tax Clearance Certificate addressed to **URC TIN-1000099925**
- (e) Registered powers of Attorney
- (f) signed Conflict of Interest Form
- (g) signed Quotation Submission Sheet
- (h) signed letter of transmittal

### **2.6 Commercial Criteria:**

The assessment of commercial responsiveness will consider the following criteria:

- i. Acceptance of the conditions of the proposed contract.
  - ii. Acceptable completion schedule.
  - iii. Acceptability of the proposed program (work method and schedule), including any relevant drawings and charts.
  - iv. Submission of a Quality Control, Health, and Safety Plan
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## 2.7 Technical Criteria:

Please include the following in your quotation:

### 2.7.1 Specific Experience:

- a) Evidence of execution of at least 3 works of similar nature and value (not less than **UGX 300,000,000 each**) in **the last 5 Years (from 2019)** with **completion certificates** attached as proof of evidence. Similar nature refers to renovations, remodelling, or construction of **laboratories**. For each assignment, the contractor must fill the attached Contractor's Reference Standard Form (Annex 3).
- b) For each of the experience stated in a) above, you must submit a recommendation letter or completion certificate from the client addressed to USAID URC Uganda Health Activity. General recommendations shall not be considered.

### 2.7.2 General Experience:

Evidence of execution of at least 3 constructions works of over UGX 1,000,000,000 with **completion certificates** attached as proof of evidence. For each assignment, the contractor must fill the attached Contractor's Reference Standard Form (Annex 3).

### 2.7.3 Personnel:

The vendor must demonstrate that they have the personnel for the key positions that meet the following requirements:

Qualifications and Positions of Key Personnel (Project Manager, Site Engineer, and Site Foreman) include,

Key Personnel	Number	Qualification	Key Roles
Project Manager	1	Civil Engineering. Architecture, Building Economics or Quantitative Surveying Degree with 5 years' experience	<ul style="list-style-type: none"><li>• Project lead/ coordinator</li><li>• Contract management</li><li>• Quality control/ inspection during site meetings</li><li>• Process requests for payments</li></ul>
Site Engineer	1	Higher Diploma in Civil Engineering with 3 years' experience	<ul style="list-style-type: none"><li>• Full time site supervision</li><li>• Quality Control</li><li>• Health and Safety supervision</li></ul>
Site Foreman	1	Relevant Certificate with 3 years' experience	<ul style="list-style-type: none"><li>• Supervise different tradesmen on site.</li></ul>

### Attach:

- ✓ Curriculum Vitae (CVs) of the above required key personnel **duly signed by the proposed individuals**. Use the attached Format of Curriculum Vitae (CV) for proposed personnel (Annex 4)
  - ✓ Copies of Academic documents/ certificates of the proposed key personnel.
  - ✓ Letters of availability of the assignment signed by the proposed key personnel.
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## 2.8 Financial Criteria

### Quotation Prices:

Quotations shall cover all costs of labour, materials, equipment, overheads, profits and all associated costs for performing the works and shall include all taxes and duties. The whole cost of performing the works shall be included in the items stated and the cost of any incidental works shall be deemed as included in the prices quoted.

All taxes and duties must be clearly specified and individually itemized, and the vendor must be registered for the said taxes and duties.

### Currency:

Quotations must be priced in Uganda Shillings (UGX) and all payments shall be made in Uganda Shillings.

### Right to Reject:

Issuance of this RFQ does not constitute an award commitment on the part of URC nor does it commit URC or the US Government to pay for costs incurred in the submission of a proposal. Furthermore, URC reserves the right to reject any or all proposals, or to award a contract without further discussion or negotiations if it is in the best interests of the project.

### Best Evaluated Quotation:

The best evaluated quotation shall be the best overall value, which is eligible and responsive to the technical requirements of this RFQ.

### Award of contract:

Award of contract shall be by placement of a Fixed Price Contract in accordance with Part 3: Contract Information. See attached Contract template.

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## **Conflict of Interest Certification**

Vendor Name: \_\_\_\_\_

As required by Federal Regulations and URC policy, the Vendor must provide to URC information regarding all potential organizational conflicts of interest in its proposal, including all relevant facts concerning any past, present, or currently planned interests which may present an organizational conflict of interest.

### **Conflicts:**

If there are such conflicts, the information should be attached in a letter addressed to **Chief of Party,  
USAID /URC., LLC UGANDA HEALTH ACTIVITY, PLOT 11 BUKOTO CRESCENT  
NAKAWA DIVISION KAMPALA.**

The undersigned acknowledges any potential organizational conflicts of interests have been spelled out in an attached letter.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed Name

\_\_\_\_\_  
Title

### **No Conflicts:**

The undersigned acknowledges there are no potential organizational conflicts of interest.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Typed Name

\_\_\_\_\_  
Title

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**LETTER OF TRANSMITTAL**

*The following letter must be completed and submitted electronically with any offer on your company letter head with your physical office address details:*

To: URC  
**Attention:** Dr. Augustin Muhwezi  
Chief of Party **URC/USAID-UHA**

Subject: Offer from Company Name  
Reference: **FY24-KLA-UHA-040**

Date: \_\_\_\_\_

Company Name hereby proposes the attached offer to perform all work required for **Construction of a laboratory Unit at Kaabong GH** in accordance with the scope of work as described in the above-referenced RFQ. Please find attached our detailed offer, as called for in the RFQ.

We hereby acknowledge and agree to all the terms and conditions, special provisions, and instructions included in the above-referenced RFQ. We further certify that **Company Name**, as a firm—as well as the firm’s principal officers, and all commodities and services offered in response to this RFQ—are eligible to participate in this procurement under the terms and conditions of this solicitation and under USAID regulations and are currently not excluded from federal procurement or non-procurement programs.

The quotation is comprised of the following required documents.

- ☐ Bill of quantities
- ☐ Price schedule and Works Completion Schedule
- ☐ Offeror’s latest trading license and Tax Registration Certificate
- ☐ Letter of Transmittal
- ☐ Signed conflict of interest forms

We hereby certify that the enclosed representations, certifications, and other statements are accurate, current, and complete.

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Name and title of authorized representative

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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### Quotation Submission Sheet (MUST be completed on company letter head)

[Complete this form with all the requested details and submit it as the first page of your quotation, with the documents requested above attached. Ensure that your quotation is authorised in the signature block below. A signature and authorisation on this form will confirm that the terms and conditions of this RFQ prevail over any attachments. If your quotation is not authorised, it may be rejected.]

Quotation Addressed to:	
Date of Quotation:	
Subject of Procurement:	

We offer to provide the Renovation / Remodelling Works detailed in the Statement of Requirements, in accordance with the terms and conditions stated in your Request for Quotations referenced above.

The total price of our Bid is: *[insert the total bid price in words and figures indicating the currency in Uganda Shillings]*;

We confirm that we meet the eligibility criteria specified in Part 1: Quotation Procedures of your Request for Quotations

The validity period of our quotation is: One Hundred Twenty (120) days from the time and date of the submission deadline.

If our bid is accepted, we commit to obtain a Performance Security in accordance with the Bidding Document in the amount of *[insert amount and currency in words and figures of the Performance Security]* for the due performance of the Contract.

We confirm that the prices quoted in the Activity Schedule are fixed and firm for the duration of the validity period and will not be subject to revision or variation.

Works will commence within \_\_\_\_\_ days from date of Contract Signing.

Works will be completed within \_\_\_\_\_ days from date of Contract Signing.

We understand that you are not bound to accept the lowest bid or any other bid that you may receive.

Signed: *[signature of person whose name and capacity are shown below]*

Name: *[insert complete name of person signing the bid]*

In the capacity of *[insert legal capacity of person signing the bid]*

Duly authorised to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ *[insert date of signing]*

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## **SECTION 2: STATEMENT OF REQUIREMENTS**

### **Scope of Works**

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## **STATEMENT OF REQUIREMENTS**

### **DRAWINGS (Annex 1)**

Works are to be performed in accordance with the following attached Drawings.

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**STATEMENT OF REQUIREMENTS**  
**BILLS OF QUANTITIES (Annex 2)**

[COMPLETE THE UNIT AND TOTAL PRICES FOR EACH ITEM LISTED BELOW. AUTHORISE THE PRICES QUOTED IN THE SIGNATURE BLOCK BELOW.]

THE QUANTITIES SHOWN BELOW ARE APPROXIMATE AND **NOT** SUBJECT TO RE-MEASUREMENT FOR PAYMENT PURPOSES.

**CURRENCY OF QUOTATION: UGANDA SHILLINGS (UGX)**

Item No	Description of Works	Quantity	Unit of Measure	Unit Price	Total Price
<i>Enter 0% VAT rate if VAT exempt.</i>				Other additional costs	
				Subtotal	
				VAT @ 18 %	
				Total	

**Bills of Quantities Authorised By:**

**Signature** \_\_\_\_\_ **Name:** \_\_\_\_\_:

**Position:** \_\_\_\_\_ **Date:** \_\_\_\_\_:

*(DD/MM/YY)*

**Authorised for and on behalf of:**

**Company** \_\_\_\_\_:

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## CONTRACTORS REFERENCES

### Relevant Works Carried Out in the Last five (5) Years (Annex 3)

Using the format below, provide information on each assignment for which your company was legally contracted (**attach completion certificates as recommendation letters from clients, addressed to USAID URC UHA**).

Assignment Name:
Name of Client:
Address of Client:
Contract Duration:
Start Date (Month/Year):
Completion Date (Month/Year):
Value of Works (UGX):
Narrative Description of Project:

Contractors Name: \_\_\_\_\_

Name and title of signatory; \_\_\_\_\_

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**Annex 4: FORMAT OF CURRICULUM VITAE (CV) FOR PROPOSED KEY PERSONNEL**

Proposed Position: \_\_\_\_\_

Name of Firm: \_\_\_\_\_

Name of Staff: \_\_\_\_\_

Profession: \_\_\_\_\_

Years with Firm: \_\_\_\_\_

Membership in Professional Societies if any: \_\_\_\_\_

Current Engagement: \_\_\_\_\_

Detailed Tasks Assigned: \_\_\_\_\_

**Key Qualifications:**

*[Give an outline of staff member's experience and training most pertinent to tasks on assignment. Describe degree of responsibility held by staff member on relevant previous assignments and give dates and locations].*

**Education:**

[Summarize college/university and other specialized education of staff member, giving names of schools, dates attended, and degree[s] obtained.]

**Employment Record:**

[Starting with present position, list in reverse order every employment held. List all positions held by staff member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of assignments.]

**Certification:**

I, the undersigned, certify that these data correctly describe me, my qualifications, and my experience.

\_\_\_\_\_  
[Signature of staff member] Date: \_\_\_\_\_

\_\_\_\_\_  
[Signature of authorized representative of the firm] Date: \_\_\_\_\_

Full name of staff member: \_\_\_\_\_

Full name of authorized representative: \_\_\_\_\_

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### CONTRACT INFORMATION

Contract Document conditions supersedes the terms concluded in Bid Documentation

#### Special Conditions of Contract

	Special Conditions
<b>Authorized Representatives</b>	The Authorised representatives are; For USAID/URC., LLC UHA Project; The Chief of Party For the Contractor: .....
<b>Notices</b>	For notices, USAID/ URC., LLC UHA Project address shall be; University Research Co., LLC USAID UHA Project Plot 11, Bukoto Crescent Road, Nakawa Division  Attention: Dr. Augustin Muhwezi Chief of Party  For notices, the contractors address shall be., .....
<b>Site</b>	The site is located at (several sites as listed and defined in the attached drawings)
<b>Start Date</b>	Five Days from the Date of Signature of Contract.
<b>The Works</b>	The Works consist of: <b>Construction of Laboratory Unit</b>
<b>Type of Contract</b>	<b>Firm Fixed- Price Agreement.</b>
<b>Language</b>	The language of the Contract is English, and any correspondences should be written in the same.
<b>Intended Completion Date</b>	<b>12 Months</b> after issuance of the commencement order for the maternity ward.
<b>Liquidated Damages</b>	Liquidated damages for the whole renovations / remodelling works are <b>0.05%</b> of the Total Contract Price per day. The Vendor shall pay liquidated damages to the Employer at the rate of <b>0.05%</b> per day for each day that the Completion Date is delayed later than the Intended Completion Date. The maximum amount of liquidated damages for the whole renovation works is <b>5%</b> percent of the final Contract Value. Consistent delays in completion and achievement of contractual milestones and deliverables constitutes ground for termination of contract.

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	Special Conditions
<b>Possession of the Site</b>	After site handover
<b>Program</b>	The Contractor shall submit the program for the Works <b>within five days</b> of signing of the Contract. Program updates shall be required.
<b>Defects Liability Period</b>	<b>180 days</b>
<b>Payment Certificates</b>	A statement of the value of the services executed shall be submitted on completion of each stage of the assignment. The Project Consultant/Supervisor and URC Project Manager/Engineer shall both check the statement and certify the amount to be paid to the Vendor.
<b>Payments</b>	The amount certified by the URC Project Manager/Engineer shall be paid in full within 30 days of acceptance by the Employer of an invoice, supported by: <ul style="list-style-type: none"> <li>• (1) the Payment Certificate; and</li> <li>• (2) Certificate of Completion of the Works.</li> </ul>
<b>Price Adjustment</b>	The Contract is not subject to price adjustment.
<b>Advance Payment</b>	Advance payment of <b>20% of the Contract Value</b> shall be made on submission of an Invoice and Advance Payment Security of the same value from a Reputable Financial Institution. Advance guarantee template will be shared.
<b>Repayment of Advance</b>	The advance payment will be repaid by deducting the equal amount from the first payment due to the contractor after the start date.
<b>Performance Security</b>	A Performance Security of <b>10% of the Contract Value</b> shall be required. This shall be submitted within five (5) days after contract signing.  The Performance Security shall be in the form of a Performance Bond (template shall be shared) from a reputable financial institution.



**BILL OF QUANTITIES**

**FOR**

**PROPOSED CONSTRUCTION OF A  
LABORATORY BUILDING AT  
KAABONG HOSPITAL, KAABONG  
DISTRICT**

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**EMPLOYER:**

Republic of Uganda  
Kaabong General Hospital  
Kaabong District

**FUNDING AGENCY**

PEPFAR | USAID  
P.O Box .....  
Kampala District

**IMPLEMENTING AGENCY**

University Research Co. LLC  
Uganda Health Activity  
P. O. Box .....  
Kampala, Uganda

**LEAD CONSULTANT**

Plantek Limited  
P. O. Box 25327  
Kampala

**PREPARED BY**

Bikandema & Partners  
P. O. Box 5937  
Kampala

**August 2024**

ITEM	DESCRIPTION	AMOUNT USHS
	<p align="center"><b><u>KAABONG GENERAL HOSPITAL</u></b></p> <p align="center"><b><u>BUILDING WORKS</u></b></p> <p align="center"><b><u>BILL OF QUANTITIES</u></b></p> <p align="center"><b><u>GENERAL SUMMARY</u></b></p>	
BILL NO. 1:	PRELIMINARIES	
BILL NO. 2:	SPECIFICATIONS	
BILL NO. 3:	DEMOLITIONS	
BILL NO. 4:	SITE PREPARATIONS	
BILL NO. 5:	LABORATORY BUILDING	
BILL NO. 6:	EXTERNAL WORKS	
BILL NO. 7:	MECHANICAL INSTALLATIONS	
BILL NO. 8:	ELECTRICAL INSTALLATIONS	
	<b>TOTAL BUILDER'S WORK</b>	
	<b>ADD: CONTINGENCIES (10%)</b>	
	<b>SUB-TOTAL</b>	
	<b>ADD: VAT (18%)</b>	
	<b>TOTAL CARRIED TO BID SUBMISSION SHEET</b>	

Item	Description	Amount (Ushs)
A	<p style="text-align: center;"><b><u>BILL NO. 1</u></b></p> <p style="text-align: center;"><b><u>BUILDING WORKS</u></b></p> <p style="text-align: center;"><b><u>PRELIMINARIES</u></b></p> <p><b>DEFINITIONS AND ABBREVIATIONS</b></p> <p>The following terms, phrases and abbreviations shall be deemed to have the following meanings wherever used in these bills of quantities or elsewhere in the contract documents.</p> <p>PPDA' shall mean Public Procurement and Disposal of Public Assets.</p> <p>Works' shall mean all or any portion of the work described in the contract documents, comprising the rehabilitation of existing buildings and the construction of new ones, complete with electrical/mechanical installations and associated external works and including materials/items, wherever the same are being manufactured or prepared for use in executing the contract.</p> <p>"Approved" or "approval" shall mean as approved by the Project Manager</p> <p>as directed' shall mean as directed by the Project Manager</p> <p>fix only' shall mean the fixing of materials and components obtained from sources as directed, including for obtaining information from suppliers, assembling and/or carefully dismantling and reassembling as necessary.</p> <p>"B.S." shall mean the current British Standard Specification published by the British Standards Institution, 2 Park Street, London W.1., England, UK.</p> <p>"Kg" shall mean Kilogrammes.</p> <p>"No" shall mean Number.</p> <p>mm' shall mean millimetre</p> <p>M' shall mean Metres.</p> <p>"m<sup>2</sup>" or 'SM' shall mean Square Metres.</p> <p>"m<sup>3</sup>" or 'CM' shall mean Cubic Metres.</p> <p>"Prs" shall mean pairs.</p> <p>"Do" or "Ditto" shall mean the whole of the preceding description except as qualified in the description in which it occurs. Where shown in brackets, it shall mean the whole of the preceding description contained in brackets.</p> <p>"M.S." shall mean measured separately.</p> <p>"Fuel" shall mean electricity, oil and any other approved source of energy.</p> <p>Exceptional Weather' shall refer to any state of the weather that could cause damage or interference to the execution of the works, including heavy rains, excessive sunshine, sleet, gales, driving winds and floods.</p> <p>"VAT" shall mean Value Added Tax.</p> <p>"Net Contract Price" or "Net Tender Price" shall mean the Tender/Contract Price or any subsequent adjustment thereto before the addition of VAT.</p>	
	CARRIED TO COLLECTION	

Item	Description	Amount (Ushs)
<b>A</b>	<p><b>FORM OF CONTRACT</b></p> <p>The form of contract and its General and Special conditions, shall be in the PPDA formats as provided in this tender dossier.</p> <p><b>METHODS OF MEASUREMENT</b></p>	
<b>B</b>	<p>The Bills of Quantities have been prepared in accordance with the principles of Standard Method of Measurement (SMM) of Building and Associated Civil Works for Eastern Africa, Second Edition published by the Architectural Association of Kenya (Chapter of Quantity Surveyors) June 2008</p>	
<b>C</b>	<p><b>PRICING</b></p> <p>The contractor shall price out individually IN INDELIBLE INK, all items containing a monetary value in the preliminaries and all other sections of the bills. In no cases will lump sums be allowed unless otherwise stated. The contractor's pricing shall be deemed to include for all his obligations under the contract. Congruous, any item not priced will be taken to have been allowed for in the prices inserted against all other items in the bills.</p>	
<b>D</b>	<p><b>SITE VISITS</b></p> <p>The site is located in Kaabong General Hospital, Kaabong Town council, Kaabong district.</p> <p>The Contractor is recommended to visit the site and shall be deemed to have acquainted himself therewith as to the nature, position, means of access etc. No claim in this connection will be allowed, including travel or other expenses incurred by the contractor in visiting the site or in preparing his tender.</p>	
<b>E</b>	<p><b>SITE LEVELS AND DIMENSIONS</b></p> <p>Before commencing on the works at the site, the contractor must arrange for and agree the existing site levels with the Project Manager and similarly establish site benchmarks.</p> <p>Figured dimensions shown on the Architect's issued drawings shall be the actual dimensions to be used in the works. The contractor shall in a timely manner, check all dimensions and levels marked on the issued drawings for consistency and completeness, before commencing on pertinent sections of the works. In the event of any discrepancies or missing dimensions, he shall immediately notify the Project Manager who shall direct appropriately, the contractor shall not scale off the drawings.</p> <p>Quantities shown in the bills of quantities shall not be used for ordering materials. The contractor shall in a timely manner make his own computations for this purpose from the issued drawings and his site measurements. In the event of any discrepancies between his computations and the quantities shown in the bills of quantities, he shall immediately notify the Project Manager who shall direct appropriately.</p>	
<b>F</b>	<p><b>COST OF SECURITIES AND INSURANCE</b></p> <p>Performance Guarantee (article 61 of the GCC and SCC)</p> <p>Insurances (article 18 of the GCC and SCC)</p> <p>Advance Payment Guarantee (article 60 of the GCC and SCC)</p> <p>Retention (article 57 of the GCC and SCC)</p>	
	CARRIED TO COLLECTION	

Item	Description	Amount (Ushs)
A	<p><b>MATERIALS, GOODS AND WORKMANSHIP TO CONFORM TO DESCRIPTION, TESTING, INSPECTION AND SAMPLES</b></p> <p>The contractor shall employ the best materials and workmanship available, which shall in any case not be inferior to the technical specifications in this Volume of the tender dossier. He shall be entirely responsible for obtaining all materials required for the works, whether local or imported.</p> <p>The contractor shall in a timely manner and at his own cost furnish any required samples of materials or workmanship or any required tests/results, as well as any samples and tests that may be called for by the Project Manager for approval, including any further requests in case of disapproval.</p> <p>Samples shall be deemed to include for their making with the specified materials under similar conditions to the site, protection of approved samples and removal of samples when no longer required by the Project Manager.</p> <p>The contractor shall particularly allow for making all necessary concrete test cubes and for their testing at an approved laboratory. One copy of the test cube results shall be forwarded directly to the Project Manager by the laboratory officials. An accurate record of all test cubes taken and crushed must be kept on site by the contractor, who shall only be reimbursed for successful tests upon production of laboratory certificates. Provisional successful concrete test cubes No. 100 @ USHS..... (the contractor to insert rate and extend amount to next column)</p> <p><b>B</b></p> <p><b>STATUTORY OBLIGATIONS, NOTICES, FEES/CHARGES, LOCAL REGULATIONS AND BYE-LAWS</b></p> <p>The contractor shall comply with all statutory obligations, local regulations/bye-laws, police regulations and those of the various utilities authorities (electricity, telephone, water), including serving of notices and payment of relevant fees.</p> <p>The contractor shall allow for obtaining all necessary approvals from local authorities, including interim ones during the progress of the works, occupation permits at practical completion and all other legally demandable ones, including payment of respective fees, rates or taxes</p> <p><b>C</b></p> <p><b>SITE SUPERVISION, ATTENDANCE AND MEETINGS</b></p> <p>The contractor shall execute the works under the direction and to the satisfaction of the Project Manager. The contractor shall be responsible for works carried out by his subcontractors and allow for pertinent attendance.</p> <p>The Clerk of Works shall have the Project Manager's specifically delegated authority regarding the contractor's site operations and shall at all times have access to the contractor's yards, workshops and other places where elements of the works are being prepared.</p> <p>In addition to impromptu site visits, the Project Manager shall preside over regularly held site meetings. The contractor shall allow for his contract, site and relevant subcontractor representatives to attend all site meetings and provide fortnightly progress photos for each building unit.</p>	
	CARRIED TO COLLECTION	

Item	Description	Amount (Ushs)
A	<p><b>TRANSPORT TO AND FROM SITES</b></p> <p>The contractor shall include in his prices for the transportation of materials, workmen, etc to and from the sites, at such hours and routes as permitted by the Project Manager and the local authority.</p>	
B	<p><b>WORKING HOURS AND FAIR WAGES</b></p> <p>The contractor and his sub-contractors shall pay to their employees rates and wages and observe working hours and conditions of labour, which are not less favourable than the minimum rates, wages and conditions provided by the Ministry of Gender, Labour &amp; Social Development of Labour of Uganda and/or stipulated in the Employment Act. The relevant notice must be posted and kept posted up on the site, at a position where it can be conveniently read by the employees concerned.</p> <p>The contractor or any subcontractor called upon, shall furnish the Project Manager, with particulars of the rates, wages and conditions of their employees engaged on the works. Should the Project Manager establish proof of any claim alleging default in rates, wages and conditions by the contractor and/or any subcontractor, the Project Manager may failing relevant payment by the party concerned, pay the claim out of any monies due or to become due to the contractor under the contract.</p>	
C	<p><b>SECURITY OF THE WORKS, EMPLOYEES AND THE PUBLIC</b></p> <p>The contractor shall be entirely responsible for security of the entire works at the sites, including his stores, materials, plant, personnel, etc as well as those of all sub-contractors engaged in the works. He shall provide all necessary watching, lighting and other precautions necessary to ensure protection of all employees and the public. He shall also provide identification cards with photographs to the satisfaction of the Project Manager, to all employees on the sites including those of subcontractors engaged.</p>	
D	<p><b>PROGRAMME OF WORKS</b></p> <p>As required in the Special Conditions of Contract, the contractor shall submit a detailed programme of works per site (including elements of the works to be carried out by sub-contractors). The chart shall include the anticipated weekly labour strength required (divided by trade). The contractor shall allow for such charts showing the programme of works or updates thereof per site, to be visibly displayed in the relevant site meeting room.</p> <p>At the end of each contract week, the contractor shall mark on the works programmes in a different colour, the actual time taken to complete respective tasks, as well as the actual numbers employed (divided by trade).</p> <p>The contractor shall supply copies of the approved programmes of works as requested from time to time, for use by the Contracting Authority, Supervisor, Supervisor's Representative and Project Manager as the case may be.</p>	
	CARRIED TO COLLECTION	

Item	Description	Amount (Ushs)
A	<p><b>OVERTIME WORK</b></p> <p>The contractor shall be responsible for any extra costs for overtime work he considers necessary for completing the works within the contract period.</p>	
B	<p><b>WATER FOR THE WORKS</b></p> <p>The contractor shall provide for sufficient clean and pure water for use in connection with the works at the sites (including for subcontractors and the Project Manager) and pay all related costs and fees, including installation of water meters, temporary storage tanks, pipes, tubing, etc.</p>	
C	<p><b>LIGHTING AND ELECTRICITY FOR THE WORKS</b></p> <p>The contractor shall provide and be entirely responsible for all temporary lighting and electricity for use in connection with the works at the sites (including for subcontractors and the Project Manager) and pay all related costs and fees, including installation of electricity meters and distribution systems. He shall also provide and be wholly reliant upon his own self generated electricity back-up supply in case of mains interruptions.</p>	
D	<p><b>TEMPORARY WORKS AND BUILDINGS</b></p> <p>The contractor shall allow for all necessary preparation of the sites prior to commencement of the works, including site clearance, removal of rubbish and the building of temporary access roads, with culverts, crossings or any other means of gaining access, for the delivery of materials, plant and workmen, in positions as agreed with the Project Manager and local authority.</p> <p>The contractor shall provide site hoarding with lockable gates at the sites, as directed and approved by the Project Manager.</p> <p>The contractor shall provide for the erection and dismantling of all scaffolding required at the sites for the proper execution of the works.</p> <p>The contractor shall provide temporary water tight lock-up storage sheds at the sites, for all goods and materials for use in the works that are liable to suffer damage from exposure to direct sunlight or exceptional weather.</p> <p>The contractor shall provide and maintain offices, workers' mess rooms and other temporary building spaces required for his use and that of subcontractors at the sites, suitably equipped with desks, chairs, drawing boards, tables, benches, cooking facilities and any other necessary furniture or equipment. No labour force, with the exception of watchmen, shall be housed on the site.</p> <p>A separate room of adequate size shall be provided at each of the sites for site meetings and equipped with a table and chairs of sufficient size and numbers, as well as wall mounted pin boards.</p> <p>The Contractor shall not have any responsibility relating to housing (living accommodation) for the Clerks of Works.</p> <p>Upon completion, the contractor shall remove and clear away all temporary access roads and buildings, plant, rubbish and unused material and make good all affected areas to the satisfaction of the Project Manager.</p>	
	CARRIED TO COLLECTION	

Item	Description	Amount (Ushs)
<b>A</b>	<p><b>COMMUNICATION</b></p> <p>All communications from the Contracting Authority, Supervisor, Supervisor's representative or Project Manager will be served to the contractor's Kampala offices or on site. The contractor shall in turn provide for effective and efficient means of relaying relevant such communication from his Kampala offices to the sites, including telephone and e-mail facilities plus payment of all related costs. These facilities will be made available for use by the Clerk of Works.</p>	
<b>B</b>	<p><b>HEALTH, SAFETY, SANITATION, HIV/AIDS AND GENDER</b></p> <p>The contractor shall allow for the implementation of all health and safety regulations relevant to the Uganda construction industry and provide for all conservancy charges.</p> <p>The contractor shall provide separate and appropriate health, safety and sanitation facilities for use by the Employer, Project Manager and his employees while at the sites, to the satisfaction of the Project Manager and the Local Authorities, including for a first aid box, fire fighting equipment, clean hand-wash/drinking water, soap and appropriate drainage/disposal.</p> <p>Temporary latrines shall be located in positions agreed with the Project Manager. Their side, partition walls and roofs shall be made of timber framed corrugated roofing sheets, with their floors made of concrete, steel trowelled smooth to falls, to facilitate easy washing.</p> <p>The contractor shall ensure daily cleaning of all temporary buildings and weekly spraying of disinfection in latrines. He shall also provide for weekly removal from the sites of all rubbish and dirt, to the satisfaction of the Project Manager and the local authority.</p> <p>The Contractor shall provide a qualified safety officer to deal with OHS, HIV/AIDS and Gender Management and provide all necessary facilities including transport. HIV/AIDS and STD prevention and counselling shall include information, education and counselling campaigns including regular distribution of condoms. The Contractor shall provide, maintain and operate a first aid clinic or make alternative arrangements with an existing facility to the approval of the Architect. The Contractor shall also carry out Gender sensitisation and awareness raising meetings and workshops and provide gender sensitive monitoring and reporting.</p> <p>On completion of the works, any temporary drains shall be removed and affected areas made good, with the whole area disinfected and left free of pollution to the satisfaction of the Project Manager and local authority</p>	
<b>C</b>	<p><b>Compliance with NEMA Regulations</b></p> <p>The Contractor shall comply with all the regulations set out by the National Environmental Management Authority (NEMA).</p>	
<b>D</b>	<p><b>SIGN BOARDS</b></p> <p>The contractor shall provide and erect where directed and maintain during the whole period of the works, an approved temporary <b>TWO FACED</b> signboard to the Architect's standard design and giving the title of the Works, 3D artistic impression of the project and showing the names of the Employer, Architect, Quantity Surveyor, Engineers and the Contractor with sufficient space to add the names of the Nominated Sub-Contractors and suppliers. The lettering concerning the Architect, Quantity Surveyor and the Engineer is not to be more than 75mm high. The signboards shall not be removed earlier than 6 months after completion.</p>	
	CARRIED TO COLLECTION	



Item	Description	Amount (Ushs)
<b>A</b>	<p><b>SITE RECORDS</b></p> <p>The contractor shall allow for the keeping of all records in relation to the works, including a daily record of weather conditions, temperature, rainfall, authorised site visitors (including names, signatures and dates of visits in a visitors' book), plant, workforce (divided by trade and total), etc.</p>	
<b>B</b>	<p><b>OPERATING AND MAINTENANCE MANNUAL</b></p> <p>The contractor shall supply to the Project Manager <b>3 copies</b> of "as built" Drawing and/or operating and maintenance manuals on the dates as stated in the Special Conditions of Contract.</p>	
<b>C</b>	<p><b>TRAINING</b></p> <p>The contractor shall allow for all costs related to the training of any apprentices admitted on the works.</p>	
<b>D</b>	<p><b>TAXES</b></p> <p>The contractor shall ensure that he has full knowledge of the relevant tax legislation and workings of the Government of Uganda and provide for all necessary administrative and accounting costs in connection with his filing and payment of taxes, including VAT. The contractor shall be entirely liable for the payment of his taxes and no adjustments to the contract price or claims by the contractor will be allowed in this respect. The right to deduct any input taxes and/or allowances in accordance with the rules/regulations pertaining to VAT is to be incorporated in respective provisional sums, unit rates and prices.</p> <p>The contractor's provisional sums, unit rates and prices as shown in the bills of quantities shall be exclusive of VAT, in order to properly build up his Net Tender Sum. The total VAT applicable to the Net Tender Sum shall then be added on the main summary page and included in his tender offer.</p>	
<b>E</b>	<p><b>COPYRIGHT</b></p> <p>The copyright of these tender documents is vested in the Quantity Suveryors . No alterations of quantities or descriptions made by the contractor in submitting his tender will be allowed. Furthermore, the contractor shall not reproduce the documents in whole or in part, without the Quantity Surveyor's written permission.</p>	
<b>F</b>	<p><b>REMOVING RUBBISH AND CLEANING</b></p> <p>The Contractor shall make good all defects and injuries to the work, clean down external faces, wash off stains and faced work, clean off marks of mortar and cement, flush out drain runs and leave all parts of the Works clean, free from rubbish and waste materials and perfect on completion.</p> <p>The Contractor shall clear and cart away all rubbish as it accumulates and keep all Works in an orderly condition to the satisfaction of the Project Manager.</p>	
<b>G</b>	<p><b>SAMPLES</b></p> <p>The Contractor shall furnish at the earliest possible opportunity and at his own cost, any samples of materials or workmanship that may be called for by the Project Manager and such samples when approved shall be the minimum standard for the work to which they apply.</p>	
	CARRIED TO COLLECTION	

Item	Description	Amount (Ushs)
<b>A</b>	<p><b>PROPRIETARY MATERIALS</b></p> <p>Where proprietary materials are specified hereafter the Contractor may propose the use of materials of other manufacture but of equal quality for approval by the Project Manager.</p> <p>All materials and goods where specified to be obtained from a particular manufacturer or supplier, are to be used or fixed strictly in accordance with their instructions.</p>	
<b>B</b>	<p><b>OCCUPATION CERTIFICATE</b></p> <p>At the completion of the contract, the Contractor shall apply for and obtain the occupation certificate from the Local Authority and see that it is duly completed and signed in accordance with the condition laid down by the current Bye-Laws.</p>	
<b>C</b>	<p><b>OFFICES FOR THE CONSULTANTS</b></p> <p>(i) The Contractor shall provide, erect and maintain where directed on site approved weatherproof lockup office for the sole use of the Consultants and clerk of works with a floor area not less than 34 square meters. The office shall be constructed with concrete or wooded floor and the walls and ceiling internally are to be lined with fibreboard. Glazed windows (with curtains or sunshades) shall be provided of not less than 1 meter square area and the door shall have a strong lock or fastening. The office shall be provided with artificial lighting and electric power. The Contractor shall allow for regular cleaning of the office. The office is to be furnished with the following:-</p> <p>(a) 1No. 20 Seater table, and 20 chairs.</p> <p>(b) 2No. Pin Boards with a minimum space of 2.0 square metres each.</p> <p>(c) 1No. A0 Size drawing chest with four drawers.</p> <p>(d) 1No. lockable study shelving/samples cabinet</p> <p>(ii) The Contractor shall maintain a display of the Programme and Progress chart in the Project Manager's offices, devised in such a way that the line programme is shown and progress can be marked up as the work proceeds. The Contractor shall keep this chart up to date at all times.</p> <p>(iii) The Contractor shall keep on the Site and maintain in good condition, one dumpy of quickest level and levelling staff and one 30 meters steel/linen tape for the use of the Consultants. The Contractor shall also provide stationery for use by the Consultants.</p> <p>(iv) He shall provide, erect and maintain a lockup pedestal type water closet for the sole use of the Consultants including making temporary connection to drain where applicable to the satisfaction of the Government and medical officers of Health and shall provide the services of a cleaner and pay all conservancy charges and keep both office and closet clean and in sanitary condition from the commencement to the completion of the Works and dismantle and make good disturbed surfaces to the satisfaction of the Architect on completion of the Works.</p> <p>(v) The office and the closet shall be completed before the Contractor is permitted to commence the Works.</p>	
	CARRIED TO COLLECTION	

Item	Description	Amount (Ushs)
A	<p><b>OFFICES FOR THE CONSULTANTS (continued)</b></p> <p>The Contractor shall also supply and maintain the following for the full contract duration, with and including all consumables and maintenance, to the Architect's:-</p> <p>(a) 1No. Fully connected personal desktop computer with UPS and licensed software and accessories as manufactured by Dell or equal approved with the following minimum specifications:  <b>Processor (CPU):</b>  Intel Core i5 or AMD Ryzen 5 processor.  <b>Graphics:</b>  Integrated graphics from the CPU or a basic dedicated graphics card such as Nvidia GeForce GT 1030 or AMD Radeon RX 550.  <b>Memory (RAM):</b>  8 GB DDR4 RAM.  <b>Storage:</b>  Solid State Drive (SSD) with at least 256 GB capacity for the operating system and software installations.  <b>Motherboard:</b>  A compatible motherboard that supports the chosen processor and has the necessary connectivity options e.g brands like Asus, Gigabyte, or MSI, with features such as USB ports, SATA ports, and expansion slots.  <b>Monitor:</b>  A 22-24 inch Full HD (1920x1080) monitor  <b>Input Devices:</b>  Keyboard and mouse/mouse pad.  <b>Connectivity:</b>  Motherboard with connectivity options such as USB 3.0/3.1 ports, HDMI or Display Port for monitor connectivity, and Ethernet for wired internet connection.  <b>Operating System:</b>  Windows 11</p> <p>(b) 1No. Plain paper photocopier, desktop type with variable magnification that can take A3 full size copies, minimum capacity 10 copies/minute, including 3kg toner and regular service by agent.</p> <p>(c) 1No. A3 colour printer</p> <p>(d) Full time internet connection</p> <p>(e) 1 No. one dumpy level or equivalent, 1 No. metric levelling staff and one 100-meter measuring tape.</p> <p>On completion of the project, all equipment will become the property of the Employer.</p> <p><b>CONTINGENCIES</b></p> <p>Include the Provisional sum for contingencies to be expended in whole or in part as directed by the Project Manager.</p>	See Summary
	CARRIED TO COLLECTION	

Item	Description	Amount (Ushs)
	<div>page 1/1</div> <div>page 1/2</div> <div>page 1/3</div> <div>page 1/4</div> <div>page 1/5</div> <div>page 1/6</div> <div>page 1/7</div> <div>page 1/8</div> <div>page 1/9</div>	<div>COLLECTION</div>
	TOTAL CARRIED TO GENERAL SUMMARY	-

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>BILL NO. 3</u></b></p> <p align="center"><b><u>BUILDING WORKS</u></b></p> <p align="center"><b><u>DEMOLITIONS</u></b></p> <p><b><u>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done. No claim for any variations of the contract sum in respect of the nature and extent of the work will be entertained</u></b></p> <p><b>General</b></p> <p>A Allow for any necessary works to disconnect, uproot electricity poles, cut or relocate any electricity supply cables/wires, water supply, drainage pipes and other piping in ground that may be encountered and these shall be effectively stopped off or grubbed up and removed; any new connections that may be necessary shall be made with proper fittings to the satisfaction of the Project Manager.</p> <p><b>Cutting down and removing, grubbing up roots, filling in holes</b></p> <p>B Tree 1500mm and not exceeding 2000mm girth</p>	Item	1		
		No	4		
	<b>TOTAL CARRIED TO GENERAL SUMMARY</b>				



Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>PROPOSED LABORATORY BUILDING AT KAABONG GENERAL HOSPITAL</u></b></p> <p align="center"><b><u>BILL NO. 5</u></b></p> <p align="center"><b><u>BUILDING WORKS</u></b></p> <p align="center"><b><u>ELEMENT NO. 1</u></b></p> <p align="center"><b><u>SUBSTRUCTURE</u></b> <b><u>(All Provisional)</u></b></p> <p><b>Excavations and Earthworks</b></p> <p>A Excavate pit for the raft foundation starting from the reduced level not exceeding 1.50 m deep. M<sup>3</sup> 815</p> <p>B Extra over excavation for breaking up rock M<sup>3</sup> 80</p> <p>C Load from spoil heaps and cart away surplus excavated materials from site M<sup>3</sup> 815</p> <p><b>Planking and Strutting</b></p> <p>D Allow for provision and subsequent removal of planking and strutting to uphold and maintain the faces and excavations Item 1</p> <p><b>Disposal of Water</b></p> <p>E Allow for keeping the whole of the excavations free from water and silt and mud by pumping, bailing or otherwise Item 1</p> <p><b>Anti-Termite Treatment</b></p> <p>F Provide and apply Termidor 96 SC or equal approved toxic chemical solution; applied at the manufacturer's recommended concentration and rate; to hardcore beds and tops of foundation walls M<sup>2</sup> 571</p> <p><b>Murram Filling</b></p> <p>G Imported approved selected murram filling on formation to make up levels; well rolled and compacted to 95% MDD in layers not exceeding 150mm thick; to receive hardcore filling (measured separately) M<sup>3</sup> 546</p> <p><b>Hardcore Filling</b></p> <p><b>Comprising approved hard dry broken brick rubble or crushed stone to pass a 65mm ring, deposited in layers maximum 150mm thick, levelling and consolidating by ramming</b></p> <p>H Depositing and compacting in layers maximum 150 mm thick; levelling; 300mm average compacted thickness M<sup>2</sup> 517</p> <p>J Depositing and compacting in layers maximum 150 mm thick; levelling; 200mm average thickness; blinding with 50mm thick sand to receive polythene sheet (measured separately) M<sup>2</sup> 570</p>				
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
A	Allow for forming sinking in hardcore 200 mm wide x 150 mm deep for the ground beam downstands.  <b>The prices for the following concrete are to include for filling into formwork, well vibrating and packing around rod reinforcement (formwork and reinforcement measured separately)</b>  <b>Reinforced Insitu concrete grade 25 in:-</b>	M	310		
B	Ground beams	M <sup>3</sup>	17		
C	200 mm thick raft foundations	M <sup>2</sup>	510		
D	75 mm thick splash apron reinforced with BRC A98 mesh including all the necessary excavations and formwork.	M <sup>2</sup>	60		
E	Splash apron down stand beam size 200 mm wide x 225 mm deep including all the necessary excavations and formwork	M	100		
F	Concrete in ramps including all the necessary excavations and formwork approximately 7 cubic metres.  <b>Steel Reinforcement as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks</b>  <b>High tensile steel bar reinforcement to BS 4461</b>	Item	1		
G	Reinforcement bars up to 16 mm diameter bars  <b>Wrought formwork as described to:-</b>	Kg	9,125		
H	Sides of ground beams	M <sup>2</sup>	119		
J	Edges of the raft foundations over 150 mm but not exceeding 225 mm wide  <b>Damp Proof Membrane</b>	M	108		
K	1000 Gauge polythene oversite damp proof membrane; laid on blinded hardcore bed; with 200mm end and side laps  <b>20mm thick; two coat rendering in Cement and Sand (1:4) mortar; trowelled smooth on:</b>	M <sup>2</sup>	510		
L	Edges of the raft foundation over 200 mm but not exceeding 300 mm wide.	M	108		
	To collection				





Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>BILL NO. 5</u></b></p> <p align="center"><b><u>ELEMENT NO. 2</u></b></p> <p align="center"><b><u>R.C. SUPERSTRUCTURE</u></b></p> <p>The prices for the following concrete are to include for filling into formwork, well vibrating and packing around rod reinforcement (formwork and reinforcement measured separately)</p> <p><b>Reinforced Insitu concrete grade 25 in:-</b></p> <p>A Ring beams</p> <p>B Columns</p> <p><b>Steel Reinforcement as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks</b></p> <p><b>High tensile steel bar reinforcement to BS 4461</b></p> <p>C Reinforcement bars up to 16 mm diameter bars</p> <p><b>Wrought formwork as described to:-</b></p> <p>D Sides and soffites of ring beams</p> <p>E Sides of columns</p> <p>F Sides of circular columns, radius 100 mm</p>	<p>M<sup>3</sup></p> <p>M<sup>3</sup></p> <p>Kg</p> <p>M<sup>2</sup></p> <p>M<sup>2</sup></p> <p>M<sup>2</sup></p>	<p>30</p> <p>6</p> <p>4,287</p> <p>362</p> <p>108</p> <p>1</p>		
	TOTAL CARRIED TO SUMMARY AT THE END OF ELEMENTS				





Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
A	100 x 100 x 4 mm hot rolled angle cleat, 200 mm long complete with 4 No. holes of 14 mm diameter welded to the base plate	No.	48		
B	50 x 50 x 3 mm hot rolled angle purlin cleat, 150 mm long complete with 2 No.holes of 14 mm diameter welded to rafters.	No.	84		
C	50 x 50 x 3 mm hot rolled angle cladding rail cleat, 250 mm long complete with 2 No.holes of 14 mm diameter welded to rafters.	No.	66		
D	12 mm diameter x 250 mm long grade 8.8 holding down bolts complete with 50 x 50 x 6 mm thick anchor plates, nuts and washers.	No.	192		
E	12 mm diameter x 45 mm long grade high tensile stainless steel bolts complete with nuts and washers	No.	216		
F	12 mm diameter x 45 mm long stainless steel XOX bolts complete with nuts and washers	No.	168		
G	100 x 100 x 4 mm hot rolled angle cleat, 200 mm long complete with 4 No. holes of 14 mm diameter welded to the base plate	No.	48		
F	50 x 50 x 3 mm hot rolled angle purlin cleat, 150 mm long complete with 2 No.holes of 14 mm diameter welded to rafters.	No.	84		
G	50 x 50 x 3 mm hot rolled angle cladding rail cleat, 250 mm long complete with 2 No.holes of 14 mm diameter welded to rafters.	No.	66		
H	Allow a provisional Sum of Ushs 5,000,000 for undetailed steelwork.	Sum	1		
	<b>On and off site painting</b>				
	<b>Prepare, apply two coats of red oxide primer (off site), touch up damaged surfaces (on site) and two finishing coats of high gloss paint on;</b>				
J	Structural steel surfaces	M <sup>2</sup>	512		
	<b>Rain water harvesting</b>				
K	150 mm uPVC gutters complete with gutter straps spaced at 1000 mm centres, gutter connectors and other fixtures.	M	73		
L	Extra over gutters for gutter outlets	No.	6		
M	Ditto stopped ends	No.	4		
N	100 mm uPVC rainwater down pipe complete push socket joints, straps spaced at 1500 mm centres and other fixtures.	M	18		
P	Extra over rain water downpipe for projecting offsets	No.	6		
Q	Ditto for shoe outlet	No.	6		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p>Page No. 5/3/1</p> <p>Page No. 5/3/2</p> <p>Page No. 5/3/3</p>				<u>COLLECTION</u>
	TOTAL CARRIED TO SUMMARY AT THE END OF ELEMENTS				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b><u>BILL NO. 5</u></b>				
	<b><u>ELEMENT NO. 4</u></b>				
	<b><u>EXTERNAL WALLS</u></b>				
	<b>Solid concrete blocks with minimum compressive strength 3.5 N/mm<sup>2</sup>; bedded and jointed in cement mortar (1:4); reinforced with 40mm wide x 1.6mm thick galvanised mild steel straps built into every second course and laped 300mm at joints and intersections and carried at least 115mm into abutting walls in:</b>				
A	200mm thick wall	M <sup>2</sup>	253		
B	Labour and material eaves filling to 200mm thick wall; average 300mm high	M	118		
	<b>Clay decorative pompeii grilles; bedded and jointed in cement mortar (1:4); as per Architect's details in:</b>				
C	200mm thick wall	M <sup>2</sup>	24		
	<b>The prices for the following concrete are to include for filling into formwork, well vibrating and packing around rod reinforcement (formwork and reinforcement measured separately)</b>				
	<b>Reinforced Insitu concrete grade 25 in:-</b>				
D	Lintels	M <sup>3</sup>	3		
	<b>Steel Reinforcement as described including cutting to length, bending, hoisting and fixing and including all necessary tying wire and spacing blocks</b>				
	<b>High tensile steel bar reinforcement to BS 4461</b>				
E	16mm diameter bar	Kg	460		
F	8mm ditto	Kg	132		
	<b>Wrought formwork as described to:-</b>				
G	Sides and soffites of lintel	M <sup>2</sup>	8		
	<b>Pre-cast reinforced Concrete grade 25 in:-</b>				
H	125mm wide x 75mm thick average rebated, weathered and throated window cill; bedded and jointed in cement and sand (1:4) mortar	M	50		
	<b>Pre-Cast Concrete grade 25; vibrated; part surface fair finish coping as per Architect's details</b>				
J	Size 300mm wide x 100mm thick; twice weathered; twice throated; reinforced as necessary for handling; bedding, jointing and pointing in cement mortar (1:4)	M	12		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
A	<p><b>50mm thick Anti- Moisture Penetration Course; in plain insitu concrete grade 20; including all necessary formwork</b></p> <p>200mm wide</p> <p><b>Prepare and apply one coat bitumen primer and two layers each of 4mm thick fully bonded waterproof horizontal membrane; comprising two bitumen layers reinforced with woven spunbonded polyester fabric and coated with polyethelene film for heat bonding; laid with 150mm end laps on concrete wall by an approved specialist as recommended by the manufacturer</b></p>	M	109		
B	200mm Wide screeded anti moisture course	M	109		
	To collection				
	Page No. 5/4/1				
	Page No. 5/4/2				
	TOTAL CARRIED TO SUMMARY AT THE END OF ELEMENTS				







Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b>BILL NO. 5</b>				
	<b>ELEMENT NO. 6</b>				
	<b><u>WINDOWS</u></b>				
	<b>Mild Steel Casement Windows</b>				
	<b>Supply and fix purpose made mild steel casement windows with fixed and top hung vent lights; complete with stays, fasteners,fixing lugs, all accessories and one coat of red oxide primer before delivery as per Architect's details:</b>				
A	Size 1000mm wide x 2000mm high overall - <b>(W1 pvo)</b>  Supply and fix purpose made mild steel casement windows with top hung vent lights; with permanent vent overhead size 1000mm wide x 600mm high, filled in with 1.2mm thick pressed steel horizontal louvres; complete with stays, fasteners,fixing lugs, all accessories and one coat of red oxide primer before delivery as per Architect's details:	No	18		
B	Size 1000mm wide x 2000mm high overall - <b>(W1a pvo)</b>  Supply and fix purpose made mild steel casement horizontal sliding windows; with permanent vent overhead size 1500mm wide x 550mm high, filled in with 1.2mm thick pressed steel louvres; complete with stays, fasteners,fixing lugs, sliding mechanisim and all accessories with one coat of red oxide primer before delivery as per Architect's details:	No	13		
C	Size 1500mm wide x 1450mm high overall - <b>(W2 pvo)</b>  Supply and fix purpose made mild steel casement windows with top hung vent lights; with permanent vent overhead size 900mm wide x 600mm high, filled in with 1.2mm thick pressed steel louvres; complete with stays, fasteners,fixing lugs, all accessories and one coat of red oxide primer before delivery as per Architect's details:	No	1		
D	Size 900mm wide x 1650mm high overall - <b>W3 pvo</b>  Supply and fix purpose made mild steel louver unit, filled in with 1.2mm thick pressed steel horizontal louvres; complete with fixing lugs, all accessories and one coat of red oxide primer before delivery as per Architect's details:	No	7		
E	Size 1500mm wide x 500mm high overall - <b>(LV 01)</b>	No	3		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b>Insect proofing; fixed and rivetted to mild steel as per Architect's details in:</b>				
A	Aluminium wire gauze infill	M <sup>2</sup>	20		
B	Gauge 23 galvanised Coffee tray wire mesh ditto	M <sup>2</sup>	20		
	<b>Glass and Glazing</b>				
C	4mm thick clear sheet glass and glazing to steel with putty	M <sup>2</sup>	56		
D	Ditto translucent glass ditto	M <sup>2</sup>	7		
	<b>Burglar proofing grille to window; all welded together complete with one coat of red oxide primer, fixing lugs, plugged in wall,all as per Architect's details</b>				
E	Size 1000mm wide x 2000mm high overall - (W1 pvo)	No	18		
F	Size 1000mm wide x 2000mm high overall - (W1a pvo)	No	13		
G	Size 1500mm wide x 1450mm high overall - (W2 pvo)	No	1		
H	Size 900mm wide x 1650mm high overall - W3 pvo	No	7		
J	Size 1500mm wide x 500mm high overall - (LV 01)	No	3		
	<b>Wrought Iron Curtain Rods as described:</b>				
K	20mm diameter x 1.5mm thick curtain rods, with round moulded holdbacks, complete with 25 x 3mm thick steel brackets screwed on walls; 10 number clip rings per metre; all as per Architect's details	M	54		
	<b>Prepare and apply one undercoat and two finishing coats of gloss oil paint in accordance with manufacturer's instructions to:</b>				
L	Glazed metal surfaces (measured flat both sides)	M <sup>2</sup>	149		
M	Louvered ditto	M <sup>2</sup>	5		
N	Grilled ditto	M <sup>2</sup>	149		
	To collection				
	Page No. 5/6/1				
	Page No. 5/6/2				
	<b>TOTAL CARRIED TO SUMMARY AT THE END OF ELEMENTS</b>				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b><u>BILL NO. 5</u></b>				
	<b><u>ELEMENT NO. 7</u></b>				
	<b><u>DOORS</u></b>				
	<b>Provide and fix the following Mahogany Flush Doors as described;</b>				
A	50mm thick Purpose made Solid Core Flush double door size 1500 x 2400mm high overall; covered both sides with mahogany veneered plywood and hardwood lipping to all exposed edges; comprising 2No. equal side hung openable leaves; size 750mm wide x 2400mm high; with 2No. glazed vision panels filled in with and including 4mm clear sheet glass; wash leather strips and 15mm x 15mm hardwood beadings, all fixed as per Architect's details <b>(D 1a)</b>	No	2		
B	Ditto size 1500 x 2400mm high overall; covered both sides with mahogany veneered plywood and hardwood lipping to all exposed edges; comprising 2No. equal side hung openable leaves; size 750mm wide x 2100mm high with 300mm high glazed permanent vent overhead filled in with 4mm clear sheet glass and glazing; with 2No. glazed vision panels filled in with and including 4mm clear sheet glass, wash leather strips and 15mm x 15mm hardwood beadings, all fixed as per Architect's details <b>(D2 pvo)</b>	No	1		
C	Ditto size 1500 x 2400mm high overall; covered both sides with mahogany veneered plywood and hardwood lipping to all exposed edges; comprising 2No. un-equal side hung openable leaves; size 450mm wide x 2100mm high and 1050mm wide x 2100mm high; with 300mm high glazed permanent vent overhead filled in with and including 4mm clear sheet glass and glazing; with 1No. glazed vision panels filled in with and including 4mm clear sheet glass, wash leather strips and 15mm x 15mm hardwood beadings, all fixed as per Architect's details <b>(D3 pvo)</b>	No	6		
D	Ditto size 1500 x 2400mm high overall; covered both sides with mahogany veneered plywood and hardwood lipping to all exposed edges; comprising 2No. un-equal leaves; fixed leaf size 450mm wide x 2100mm high and side hung leaf size 1050mm wide x 2100mm high; with 300mm high glazed permanent vent overhead filled in with and including 4mm clear sheet glass and glazing; with 1No. glazed vision panels filled in with and including 4mm clear sheet glass, wash leather strips and 15mm x 15mm hardwood beadings, all fixed as per Architect's details <b>(D4 pvo)</b>	No	1		
E	50mm thick Purpose made Solid Core Flush double door size 900 x 2400mm high overall; covered both sides with mahogany veneered plywood and hardwood lipping to all exposed edges; comprising 1No. side hung leaf; with 300mm high glazed permanent vent overhead filled in with and including 4mm clear sheet glass and glazing, wash leather strips and 15mm x 15mm hardwood beadings; all fixed as per Architect's details <b>(D7 pvo)</b>	No	15		
F	Ditto size 800 x 2400mm high overall; ditto <b>(D7a pvo)</b>	No	4		
G	Ditto size 1000 x 2400mm high overall; ditto <b>(D8 pvo)</b>	No	1		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
A	<b>Wrot hardwood as described;</b> 50mm x 15mm splayed architrave	M	353		
B	<b>Door frames, linings and mouldings in wrought mahogany as described to Architect's details:-</b> 250mm x 50mm rebated frame	M	177		
C	<b>Supply and Fix the following "ASSA ABLOY UNION" or other equal approved Ironmongery</b> 100mm Pressed steel butt hinges	Prs.	59		
D	Three lever mortice lock and furniture	No	25		
E	Two lever mortice lock and furniture	No	5		
F	Indicator bolt	No	5		
G	Sex indicator plates	No	4		
H	Disabled indicator plates	No	1		
J	25mm diameter rubber door stop	No	46		
K	Stainless Steel kick plate; size 1050mm wide x 200mm high x 1.2mm thick	No	14		
L	Ditto; size 1000mm wide ditto	No	2		
M	Ditto; size 900mm wide ditto	No	30		
N	Ditto; size 800mm wide ditto	No	8		
P	Ditto; size 750mm wide ditto	No	6		
Q	Ditto; size 450mm wide ditto	No	12		
R	Stainless Steel Push Plates; Size 304mm high x 152mm wide	No	14		
S	<b>Mild Steel Casement doors</b> <b>Supply and fix purpose made mild steel doors; on 80 x 40 x 1.2mm thick steel frame; complete with all ironmongery, fixing lugs, burglar proofing grilles; all accessories and one coat of red oxide primer before delivery as per Architect's details</b> Purpose made casement door; size 1500 mm wide x 2400mm high overall; comprising 2No openable side hang leaves size 750mm wide x 2400mm high; filled in with 4mm thick clear sheet glass and glazing; all fixed and welded together <b>(D1)</b>	No	1		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
A	Purpose made casement door; size 1000 mm wide x 2400mm high overall; comprising openable side hang leaf size 1000mm wide x 2100mm high; filled in with 4mm thick clear sheet glass and glazing; 300mm high permanent vent overhead filled in with 1.2mm thick louvers; all fixed and welded together including all ironmongery, fixing lugs, burglar proofing grilles and a single <b>(D5 pvo)</b>	No	2		
B	Purpose made louvered door; size 900 mm wide x 2400mm high overall; comprising openable side hang leaf size 900mm wide x 2100mm high; filled in with 1.2mm thick horizontal louvers; 300mm high permanent vent overhead filled in with 1.2mm thick louvers; all fixed and welded together <b>(D5 pvo)</b>	No	2		
C	Purpose made louvered duct door; size 900 mm wide x 2400mm high overall; filled in with 1.2mm thick horizontal louvers; all fixed and welded	No	2		
	<b>Supply and fix purpose made mild steel grille doors; on 40 x 40 x 1.2mm door frame; complete with all ironmongery, fixing lugs, burglar proofing grilles; all accessories and one coat of red oxide primer before delivery as per Architect's details</b>				
D	Purpose made grille; size 900 mm wide x 2200mm high overall; filled in with 1.2mm thick members; all fixed and welded together <b>(D8a)</b>	No	1		
	<b>Mild steel horizontal fixed louvre units; fixed to 50 x 40 x 1.2mm thick frame filled in with 1.2mm horizontal louvers; complete with all accessories and one coat of red oxide primer before delivery as per Architect's details:</b>				
E	Purpose made for 1000mm wide x 550mm high opening	No	2		
F	Ditto 900mm wide x 550mm high opening	No	2		
	<b>Insect proofing; fixed and rivetted to mild steel as per Architect's details in:</b>				
G	Aluminium wire gauze infill	M <sup>2</sup>	2		
H	Gauge 23 galvanised Coffee tray wire mesh ditto	M <sup>2</sup>	2		
	<b>Prepare and apply one undercoat and two finishing coats of gloss oil paint in accordance with manufacturer's instructions to:</b>				
J	Glazed metal surfaces (measured flat both sides)	M <sup>2</sup>	17		
K	Grilled ditto	M <sup>2</sup>	21		
	<b>Prepare and apply one undercoat and two finishing coats of polyurethane varnish in accordance with manufacturer's instructions to:</b>				
L	Timber door surfaces generally	M <sup>2</sup>	139		
M	Timber door frames	M <sup>2</sup>	62		
N	Ditto not exceeding 100mm girth	M	353		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<div>Page No. 5/7/1</div> <div>Page No. 5/7/2</div> <div>Page No. 5/7/3</div>				<u>COLLECTION</u>
	TOTAL CARRIED TO SUMMARY AT THE END OF ELEMENTS				



Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>BILL NO. 5</u></b></p> <p align="center"><b><u>ELEMENT NO. 8</u></b></p> <p align="center"><b><u>INTERNAL FINISHINGS</u></b></p> <p><b>Floor screed; Cement and sand (1:4); wood floated finish to receive terrazzo m/s:</b></p> <p>A 25mm thick</p> <p><b>Insitu polished terrazzo as described; approved colour and design; including forming margins and setting 20mm x 6mm division strips all to architect's satisfaction</b></p> <p>B 25mm thick to Floors</p> <p>C to skirtings; 150 mm wide</p> <p><b>Screed backing to wall; Cement and sand (1:4); wood floated finish:</b></p> <p>D 12mm thick wall backing to receive ceramic wall tiles (measured separately)</p> <p><b>Supply and fix approved glazed ceramic wall tiles; 300mm x 200mm x 6mm thick; approved colour; bedding and jointing on screed (measured separately) with approved water proof adhesive; flush pointing in approved coloured grout to:</b></p> <p>E Walls</p> <p><b>Accessible Tile system as manufactured by "TOPTILE" or "ARMSTRONG" or equal approved</b></p> <p><b>Supply and Fix 600 x 600 x 5mm thick fissured mineral fibre tiles on metal grid suspension system including beam, cross tees, wall molding, hanger wire and all necessary accessories; all fixed strictly in accordance with the manufacturer's instructions; to Architect's details to:</b></p> <p>F Ceilings</p> <p><b>Two coat lime plaster; 16mm thick; first coat of cement lime and sand (1:2:9); second coat of cement lime putty and sand 1:1:6 steel trowelled on:</b></p> <p>G Walls</p> <p><b>Prepare and apply one undercoat and two finishing coats of silk vinyl paint in accordance with manufacturer's instructions to:</b></p> <p>H Plastered walls</p>	M <sup>2</sup>	458		
		M <sup>2</sup>	458		
		M	434		
		M <sup>2</sup>	408		
		M <sup>2</sup>	408		
		M <sup>2</sup>	452		
		M <sup>2</sup>	1,012		
		M <sup>2</sup>	1,012		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<div>Page No. 5/8/1</div>				<div>COLLECTION</div>
	TOTAL CARRIED TO SUMMARY AT THE END OF ELEMENTS				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b>BILL NO. 5</b>				
	<b>ELEMENT NO. 9</b>				
	<b>EXTERNAL FINISHINGS</b>				
	<b>Floor screed; Cement and sand (1:4); wood floated finish to receive terrazzo m/s:</b>				
A	25mm thick on ramps	M <sup>2</sup>	14		
	<b>Insitu polished terrazzo as described; approved colour and design; including forming margins and setting 20mm x 6mm division strips all to Architect's satisfaction</b>				
B	25mm thick; non slip; on ramps	M <sup>2</sup>	14		
	<b>20mm thick Cement and sand (1:4) rendering to:-</b>				
C	Walls	M <sup>2</sup>	253		
	<b>Approved Stone slates; bedded, jointed and pointed in cement mortar (1:3) with water proofing additives to:</b>				
D	Wall	M <sup>2</sup>	41		
	<b>Prepare and apply approved weatherguard emulsion paint in accordance with manufacturer's instructions to:</b>				
E	Rendered walls	M <sup>2</sup>	253		
	TOTAL CARRIED TO SUMMARY AT THE END OF ELEMENTS				



Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>BILL NO. 5</u></b></p> <p align="center"><b><u>BUILDING WORKS</u></b></p> <p align="center"><b><u>SUMMARY OF ELEMENTS</u></b></p> <p>ELEMENT NO. 1: SUBSTRUCTURE</p> <p>ELEMENT NO. 2: R.C. SUPERSTRUCTURE</p> <p>ELEMENT NO. 3: ROOF COVERINGS AND CONSTRUCTION</p> <p>ELEMENT NO. 4: EXTERNAL WALLS</p> <p>ELEMENT NO. 5: INTERNAL WALLS</p> <p>ELEMENT NO. 6: WINDOWS</p> <p>ELEMENT NO. 7: DOORS</p> <p>ELEMENT NO. 8: INTERNAL FINISHINGS</p> <p>ELEMENT NO. 9: EXTERNAL FINISHINGS</p> <p>ELEMENT NO. 10: FITTINGS</p>				
	<b>TOTAL CARRIED TO GENERAL SUMMARY</b>				

Item	2 Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>PROPOSED LABORATORY BUILDING AT KAABONG GENERAL HOSPITAL</u></b></p> <p align="center"><b><u>BILL NO. 6</u></b></p> <p align="center"><b><u>EXTERNAL WORKS</u></b></p> <p><b>Paved walkway</b></p> <p><b>Earthworks</b></p> <p>A Excavation; to reduce levels average depth 300 mm.</p> <p><b>Disposal</b></p> <p>B Remove surplus excavated materials from site.</p> <p><b>Compaction of surfaces</b></p> <p>C Compaction of ground surfaces under paving, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density at OMC.</p> <p><b>Filling</b></p> <p><b>Sub-bases and bases</b></p> <p>D Imported murram; well graded and compacted depth 300mm to 98% maximum dry density.</p> <p><b>Concrete paving blocks; 25 N/sq mm; to approved pattern; on and including 50 mm thick sand bed; compacting with approved vibrator; filling joints with sand to Architect's details.</b></p> <p>E 60 mm thick; to walkways; laid to falls, crossfalls or sloping</p> <p><b>Precast concrete grade 25 kerbs ; vibrated; Size 150 x 250 mm high; splayed one face; part fair finish all exposed surfaces; bedded, jointed and pointed in cement mortar (1:3); laid on and including plain insitu concrete grade 15 bedding size 325 mm wide x 100 mm deep and 100mm wide haunching both sides; including all necessary formwork, excavations and earthworks; all to Engineer's details</b></p> <p>F Kerbs (both straight and curved)</p> <p><b>Prepare and apply three coats of road marking paint on:</b></p> <p>G Kerbs; 100mm to 200mm girth.</p>	M <sup>3</sup>	113		
		M <sup>3</sup>	113		
		M <sup>2</sup>	292		
		M <sup>2</sup>	292		
		M <sup>2</sup>	244		
		M	320		
		M	320		
	To collection				







Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b>Supply, install, connect and set to work the following, all as described in the Specifications and Drawings.</b>  <b>7.1 PLUMBING AND DRAINAGE</b>  <b>Cold Water Supply to Appliances</b>				
7.1.01	63mm HDPE PN16 fresh water distribution line to buildings, buried in ground, clipped to wall or in duct, complete with all fittings and accessories.	m	25		
7.1.02	50mm HDPE PN16 fresh water distribution line to buildings, buried in ground, clipped to wall or in duct, complete with all fittings and accessories.	m	65		
7.1.03	40mm HDPE PN16 fresh water distribution line to buildings, buried in ground, clipped to wall or in duct, complete with all fittings and accessories.	m	55		
7.1.04	40mm PPR pipe PN16, burried in wall, clipped to wall, or in duct complete with all fittings and accessories.	m	30		
7.1.05	32mm PPR pipe PN16, burried in wall, clipped to wall, or in duct complete with all fittings and accessories.	m	25		
7.1.06	25mm PPR pipe PN16, burried in wall, clipped to wall, or in duct complete with all fittings and accessories.	m	40		
7.1.07	40mm Vandal proof CR19 CP gate valve with Key as PlumbStop or equal approved.	no	2		
7.1.08	32mm Vandal proof CR19 CP gate valve with Key as PlumbStop or equal approved.	no	7		
	<b>Solar Water Heater</b>				
7.1.09	Solar water heating system comprising of 300 Litres tank and 2no heat collector panels, mounted on a steel structure ( <b>to S.E Details</b> ), with all required connection pipework and accessories, as <b>SOLARHART</b> or equal approved.	no	1		
	<b>Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b>Total Brought Forward</b>				
7.1.10	32mm PPR pipe PN16, burried in wall, clipped to wall, or in duct complete with all fittings and accessories.	m	20		
7.1.11	25mm PPR pipe PN16, burried in wall, clipped to wall, or in duct complete with all fittings and accessories.	m	20		
7.1.12	40mm Vandal proof CR19 CP gate valve with Key as PlumbStop or equal approved.	no	1		
7.1.13	32mm Vandal proof CR19 CP gate valve with Key as PlumbStop or equal approved.	no	2		
7.1.14	25mm Vandal proof CR19 CP gate valve with Key as PlumbStop or equal approved.	no	1		
	<b>Internal Foul-Water Drainage</b>				
7.1.15	50mm PVC heavy gauge pipes PN16 complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap.	m	20		
7.1.16	110mm PVC heavy gauge pipes PN16 complete with bends and all accessories for WCs, in floor, walls, up to manholes/Gully Trap.	m	75		
	<b>Internal Waste-Water Drainage</b>				
7.1.17	38mm PVC heavy gauge pipes PN16 complete with bends and all accessories for WHBs, sinks, in floor, walls, up to manholes/Gully Trap .	m	85		
7.1.18	50mm PVC heavy gauge pipes PN16 complete with bends and all accessories for Showers, in floor, walls, up to manholes/Gully Trap.	m	10		
7.1.19	100 x 80 BSP anti vandal Floor drain as <b>GALVIN CARE (303077X)</b> , complete with all accessories	no	16		
	<b>External Drainage</b>				
7.1.20	160mm uPVC heavy duty pipe PN16 including excavations and backfilling pipe laid in the ground at a slope of 1 : 100 (or as appropriately established) complete with all accessories.	m	90		
	<b>Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	Total Brought Forward				
7.1.21	Gully Trap (GT) complete with PVC trap and grating, in masonry construction 300 x 300 x 350mm deep (internally), consisting of 140mm thick solid concrete block walls, 150mm thick concrete base and benching, <b>Reinforced Concrete cover to SE detail</b> and all accessories.	no	9		
7.1.22	Manhole 750 x 600mm, not exceeding 1000mm deep, in solid concrete block walls, rendered smooth inside complete with benching, bitumen coated MS cat ladder, <b>Heavy Duty LOCKABLE</b> cast iron or <b>Reinforced Concrete manhole cover, to SE detail</b> and all accessories.	no	10		
7.1.23	Excavate for and construct a <b>100 users</b> Septic Tank over all size ( <b>7.92m x 1.755m x 1.8m</b> ), with a partition wall dividing it into two chambers with depth to invert level (average) 2100mm. With two 610mmx450mm <b>Heavy Duty LOCKABLE</b> cast iron or <b>Reinforced Concrete</b> manhole covers, <b>all to S.E details.</b>	no	1		
7.1.24	Excavate for and construct a Soak pit 4.5m top diameter, tapering to 2m bottom diameter at a depth of 3m, filled with graded hardcore with polythene sheet and cover, with black soil, grassing complete.	no	1		
7.1.25	Prepare and divert existing sewer line away from project site, including making good of any disturbed manholes.	item	1		
	TOTAL FOR PLUMBING AND DRAINAGE CARRIED TO COLLECTION.				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b>7.2 SANITARY FITTINGS</b>				
7.2.01	White Vitreous China Floor standing Close coupled WC as IDEAL STANDARD, MANTA (G 3401), with an S trap or turned P trap complete with all required accessories.	no	2		
7.2.02	18 Gauge Polished Sheet Stainless Steel Squat Type WC, with back inlet, a horizontal outlet with S-Trap converter, as ARMITAGE SHANKS, FRANKIE, complete with the required fixing bolts, a concealed pattern Modus Flush Valve S9015AA (685078PCP), with 32mm BSP female inlet connection for fixing behind the wall, push button and regulator all on the right hand side, with all required accessories.  <b>ARMITAGE SHANKS DOC M STANDARD PACK for RIGHT corner arrangement, consisting of the following as illustrated in the catalogue CI/SfB (74) Uniclass L721 June 2002, Page 17:3:5 :- All handles and Grab Rails are of Polyster coated Aluminium.</b>	no	2		
7.2.03	White Vitreous China Floor standing Close coupled WC as IDEAL STANDARD, MANTA (G 3401), with an S trap or turned P trap complete with, 2No. 60cm vertical grab rails and 1No. 60cm horizontal grab rail, 1No. 45cm pull rail for back of door, 1No. hinged support rail, 15cm x 15cm mayfair semi-recessed toilet roll holder S5004 (2053100) and all accessories.	no	1		
7.2.04	White Vitreous China Wash hand basin with a single central taphole as IDEAL STANDARD, KIMERA (G0248 / Page 42), complete with a small wall pedestral (G0223), 2No. 12mm Nimbus inclined bib taps S7205 (6610400), with 75mm tap extensions S8345 (8174B00CP), a pop-up waste (A 3820), 38mm metal bottle trap with a 75mm seal and all required accessories.	no	5		
7.2.05	20mm single-lever, ceramic-disk, in-wall shower fitting, and a Vandal proof shower head as Armitage Shanks S9313AA, complete with a shower mixer tap, shower curtain, floor drain and all accessories.	item	2		
	<b>Total Carried Forward</b>				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<b>Total Brought Forward</b>				
7.2.06	0.6m x 0.6m Doon Single bowl sink (S5860) with no tapholes and no overflows, in Stainless Steel (18 gauge), as ARMITAGE SHANKS, HTM64 DOON SINGLE SINK, complete with 2No. 12mm Nimbus inclined bib taps S7205 (6610400), with 75mm tap extensions S8345 (8174B00CP), 1No. 38mm metal bottle trap with a 75mm seal and all required accessories.	no	12		
7.2.07	18 Gauge Stainless steel kitchen sink, single bowl, single drain as ARMITAGE SHANKS or equal, complete with 2No. 12mm Nimbus inclined bib taps S7205 (6610400), with 75mm tap extensions S8345 (8174B00CP), 1No. 38mm metal bottle trap S891567 (70238Q4SC) complete with all accessories.	no	1		
7.2.08	18 Gauge Stainless steel Cleaners sink, as ARMITAGE SHANKS or equal, complete with 2No. 12mm Nimbus inclined bib taps S7205 (6610400), with 75mm tap extensions S8345 (8174B00CP), 1No. 38mm metal bottle trap S891567 (70238Q4SC) complete with all accessories.	no	1		
7.2.09	White Vitreous China wall mounted Urinal bowl, for back inlet with spreader and concealed steel hangers, 38mm metal bottle trap with 75mm seal S8915 (70238Q4), 4.5 litre automatic cistern, with 32mm BSP female inlet connection for fixing behind the wall, as ARMITAGE SHANKS, URINAL or equal approved.	no	2		
7.2.10	Pedestal mounted Emergency Shower and Eye/Face wash station, complete with:- <b>A 200mm</b> dia shower head, capable of delivering 3bars of water (120litres/min), activated using a 770mm long stainless steel pull rod with a triangular handle. <b>A 260mm</b> dia polypropylene eye/face wash bowl, capable of delivering 1.5-5bars of water (14litres/min), chrome plated brass dual arms and spray heads, a stainless steel push lever for valve activation, as GENTWORKS or equal approved.	item	1		
	<b>Total Carried Forward</b>				

[illegible]







Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
<b>7.5 AIR CONDITIONING</b>					
7.5.01	AC Unit comprising of 1No. Outdoor unit AC1, of Cooling capacity 48,000 Btu/hr, 50Hz, Serving 3No. Wall mounted indoor units, FC1, FC2, each of cooling capacity 12,000 Btu/hr, and FC3 of cooling capacity 24,000 Btu/hr, as TOSHIBA, DAIKIN, LG or equal approved, complete with a Solatek or equal surge protection unit, an outdoor protection cage and all accessories including power connections.	no	1		
7.5.02	AC Unit comprising of 1No. Outdoor unit AC2, of Cooling capacity 36,000 Btu/hr, 50Hz, Serving 2No. Wall mounted indoor units, FC4, FC5, each of cooling capacity 18,000 Btu/hr, as TOSHIBA, DAIKIN, LG or equal approved, complete with a Solatek or equal surge protection unit, an outdoor protection cage and all accessories including power connections.	no	1		
7.5.03	AC Unit comprising of 1No. Outdoor unit AC3, of Cooling capacity 36,000 Btu/hr, 50Hz, Serving 2No. Wall mounted indoor units, FC6, FC7, each of cooling capacity 18,000 Btu/hr, as TOSHIBA, DAIKIN, LG or equal approved, complete with a Solatek or equal surge protection unit, an outdoor protection cage and all accessories including power connections.	no	1		
7.5.04	Air Conditioning Unit comprising of 1No. Outdoor unit AC4, of Cooling capacity 36,000 Btu/hr, 50Hz, Serving 2No. Wall mounted indoor units, FC8, FC9, each of cooling capacity 18,000 Btu/hr, as TOSHIBA, DAIKIN, LG or equal approved, complete with a Solatek or equal surge protection unit, an outdoor protection cage and all accessories including power connections.	no	1		
7.5.05	AC Unit comprising of 1No. Outdoor unit AC5, of Cooling capacity 30,000 Btu/hr, 50Hz, Serving 2No. Wall mounted indoor units, FC10, FC11, of cooling capacities 18,000 Btu/hr, and 12,000 Btu/hr, as TOSHIBA, DAIKIN, LG or equal approved, complete with a Solatek or equal surge protection unit, an outdoor protection cage and all accessories including power connections.	no	1		
<b>TOTAL FOR AIR CONDITIONING CARRIED TO COLLECTION.</b>					



Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>PROPOSED LABORATORY BUILDING AT KAABONG GENERAL HOSPITAL</u></b></p> <p align="center"><b><u>BILL NO. 8</u></b></p> <p align="center"><b><u>ELECTRICAL INSTALLATIONS</u></b></p> <p><b>Provide all materials, install, connect and set to work the following all as described in the Specifications and Drawings.</b></p> <p>A To be supplied, delivered to Site, installed, connected complete and commissioned in full working condition including all the necessary fixing/mounting/terminating accessories as per Specification and Drawings, tested and commissioned to the satisfaction of the Electrical Engineer.</p> <p>B All electrical items to be suitable for 415/240V power system.</p> <p>C All power supply cables measured under this Bills of Quantities have provisional route length stated. Actual measurements will be done on site during evaluation.</p> <p>D The rate for the underground cables shall cover excavation, sand-bedding, backfilling, trenching, enclosing in PVC DUCTS, manholes, where necessary, and all associated builders' works. Actual measurements shall be based on the site conditions.</p> <p>E All lightings fittings shall be as per Specifications and Drawings with control gear compatible with 240V/50Hz. All lighting fittings are to be approved by the Electrical Engineer prior to installation.</p> <p>F All wiring accessories shall be as per Specifications and Drawings (or otherwise specified and approved) complete with all attachments and accessories. All samples to be approved prior to installation by the Engineer.</p> <p>G The entire electrical installation shall be tested for compliance in accordance to the 16th Edition of the IEE Wiring Regulations and witnessed / approved by the Engineer</p>				
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>PROPOSED LABORATORY BUILDING AT KAABONG GENERAL HOSPITAL</u></b></p> <p align="center"><b><u>BILL NO. 8</u></b></p> <p align="center"><b><u>ELECTRICAL INSTALLATIONS</u></b></p>				
<b>1</b>	<b>Ground Floor</b>				
A	Lighting points wired by 3x1.5mm <sup>2</sup> SC PVC copper cables in 25mm heavy gauge PVC conduit concealed conduit complete with MK steel boxes and all accessories.	No.	87		
B	Socket outlet points wired as a ring by 3x2.5mm <sup>2</sup> SC PVC copper cables in 25mm heavy gauge PVC concealed conduit complete with all accessories including boxes for sockets.	No	98		
C	Socket outlet points wired as a ring by 3x2.5mm <sup>2</sup> SC PVC copper cables in 25mm heavy gauge PVC concealed conduit complete with all accessories including boxes for sockets.	No	43		
	<b>Distribution Board</b>				
D	100A 12 Way TPN MCCB wall mounted Main Distribution Board complete with 100A TPN Integral Isolator, 100A TPN Change over switch 3Nox TPN MCCBsx63A, 6x20A, 12x32A, 6x10A SPN MCBs and all accessories as CHINT or approved equivalent. (MDB)	No	1		
E	63A 8way SPN MCB wall mounted recessed Consumer's Unit, complete with 63A SPN integral isolator, 3x32A, 3x20A, 2x6A SPN MCBs and all accessories, as CHINT or equal approved . UPS	No	1		
	<b>Lighting Fittings</b>				
F	Circular surface mounted/recessed 150mm diameter, 15W LED luminaire to IP22 as Phillips or equal approved (Light type A1).	No.	11		
G	Circular surface mounted/recessed 150mm diameter, 15W LED Emergency Luminaire with 3hour battery pack, luminaire to IP22 as Phillips or equal approved (Light type A1E).	No.	6		
H	Circular surface mounted/recessed 150mm diameter, 20W LED luminaire to IP22 as Phillips or equal approved (Light type A).	No.	1		
J	Circular surface mounted/recessed 150mm diameter, 12W LED luminaire to IP22 as Phillips or equal approved (Light type B).	No.	7		
K	Circular surface mounted/recessed 150mm diameter, 12W LED Emergency Luminaire with 3hour battery pack, luminaire to IP22 as Phillips or equal approved (Light type BE).	No.	3		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>PROPOSED LABORATORY BUILDING AT KAABONG GENERAL HOSPITAL</u></b></p> <p align="center"><b><u>BILL NO. 8</u></b></p> <p align="center"><b><u>ELECTRICAL INSTALLATIONS</u></b></p>				
A	40W LED 600x600mm recessed Luminaire to IP22, 4400Lumens at 110Lumens/W 50,000hrs at L65, 50Hz as Philips Ledinaire or equal approved. (Light type F4)	No.	12		
B	Ultra-slim white aluminium bodied maintained LED ceiling mounted Emergency EXIT sign, with engraved fire retardant acrylic sign blade, suitable for double sided viewing, with with DALI Interface 3hour maintained format, to IP20 protection, as Philips or equal approved (Light Type EXIT)	No.	4		
C	40W LED 600x600mm recessed Luminaire to IP22, 4400Lumens at 110Lumens/W 50,000hrs at L65, 50Hz with Emergency light with 3hour battery pack as Philips Ledinaire or equal approved. (Light type F4E)	No.	13		
D	10W LED 600mm T8 linear luminaire to IP22 complete with all accessories.	No.	6		
E	20W LED 1200mm T8 linear luminaire to IP22 complete with all accessories.	No.	6		
F	20W LED 1200mm T8 linear luminaire to IP22 with Emergency light with 3hour battery pack complete with all accessories.	No.	6		
G	Wall mounted Bulk Head with 15W LED lamp sealed to IP65 rating, complete with all accessories as Phillips or approved equivalent (Light Type S)	No.	12		
	<b>Sockets</b>				
H	13A 3pin twin switched socket outlets on wall as CHINT or equal approved for Raw Power	No	55		
J	13A 3pin twin switched socket outlets on wall as CHINT or equal approved. For UPS	No	43		
	<b>Switches</b>				
K	6A 1 gang 1way light switch as CHINT or equal approved complete with all accessories.	No	31		
L	6A 1 gang 2way light switch as CHINT or equal approved complete with all accessories.	No	4		
M	6A 2 gang 2way light switch as CHINT or equal approved complete with all accessories.	No	1		
N	6A 3 gang 2way light switch as CHINT or equal approved complete with all accessories.	No	1		
	<b>Wall Trunking</b>				
P	3 Section PVC Trunking 167x65mm placed against walls complete with all accessories.	Lm	140		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>PROPOSED LABORATORY BUILDING AT KAABONG GENERAL HOSPITAL</u></b></p> <p align="center"><b><u>BILL NO. 8</u></b></p> <p align="center"><b><u>ELECTRICAL INSTALLATIONS</u></b></p> <p><b>Miscellaneous</b> <b>Fire Alarm System</b></p> <p>A 2 loop Addressable Fire Alarm Control Panel as Menvier or equal approved complete with battery supply and all accessories.</p> <p><b>Field Devices:</b></p> <p>B Intelligent Second Generation addressable Photoelectric Smoke Detector complete with base and all accessories.</p> <p>C Intelligent Second Generation addressable Heat Detector complete with base and all accessories.</p> <p>D Manual Pull Station - Double Action, 1-stage complete with all accessories.</p> <p>E Multi-cd temporal horn-strobe, hi/lo dB - 24V, WHITE G1-HDVM.</p> <p>F Fire Alarm outlet points wired by 2x1mm<sup>2</sup> SC Heat Resistant copper cables in 25mm heavy gauge PVC concealed conduit complete with all accessories.</p> <p><b>CCTV</b></p> <p>G 16 Channel NVR complete with 8TB hard disk, POE, monitoring software and all accessories as HIKVISION or equal approved.</p> <p>J IP network cameras 4MP, 2.8mm dome type as HIKVISION or equal approved</p> <p>K IP network cameras 4MP, 2.8mm Bullet type to IP65 Weatherproof and andal resistnt as HIKVISION or equal approved</p> <p>L 24port patch panel as D Link.</p> <p>M Wiring of CCTV Points by Cat 6 cable with POE.</p> <p>N Cat 6A cable outlets.</p> <p>P 1KVA UPS 230V 50Hz, 3hours batteries.</p> <p>Q 32inch monitor.</p> <p><b>Data Network</b></p> <p>R 42U Rack, 800x800mm complete with 2no Power Distribution Units, ventilation fans and all accessories. As D-Link or equal approved.</p> <p>S Data points wired by CAT 6A copper cables complet with terminations in RJ45 plugs at both ends.</p>				
	To collection				

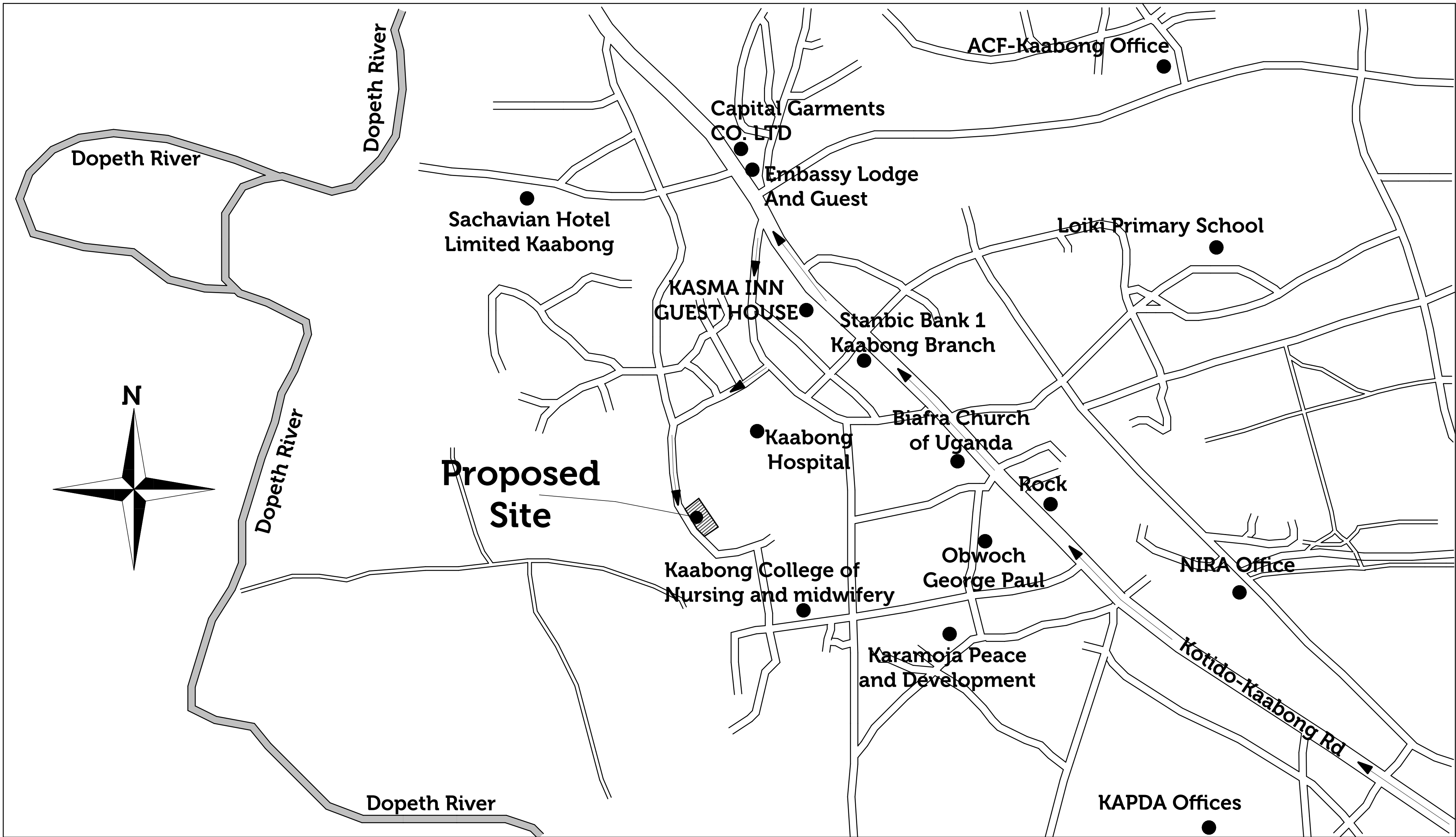
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A	24port patch panel as D Link.	No	1		
B	Wireless access points.	No	2		
	<b>Access Control</b>				
C	Optical IP-based fingerprint access control terminals featuring multiple advanced technologies, including fingerprint recognition, Wi-Fi, LCD display screen, and time attendance. Complete with a 2.4-inch LCD display screen and is equipped with an optical fingerprint recognition module, EM card sensor or M1 card sensor. It shall be complete with all accessories. As HIKVISION Model DS-K1T804EF: EM card and fingerprint.	No	1		
D	EM programmable Cards for above unit (100No Packs)	No	10		
E	EM programmer for Cards for above unit	No	1		
F	Data point wired by CAT 6A copper cables complet with terminations in RJ45 plugs at both ends.	No	1		
	<b>Door Closure</b>				
G	MAGLOCK300: Magnetic door lock 300kg side mount with bracket Front/Z for S/F maglock complete with all accessories.	No	1		
	<b>Earthing and Lightning Protection</b>				
H	Copper tape of hard drawn high conductivity copper 3mm x 25mm cross section for horizontal and down conductors complete with fixing clips and all accessories as by FURSE or equal.	m	100		
J	Air terminals 20x1200mm complete with tape adapters, spikes and all accessories by FURSE or equal.	No.	3		
K	Test clamp complete as by FURSE or equal.	No.	4		
L	Earth Electrodes 20x1200mm made from hard drawn copper complete with cap, earth clamp and all accessories as made by FURSE or equal.	No.	4		
M	Earth manhole 300x300x300mm complete with cover marked with EARTH symbol complete with all accessories as made by FURSE or equal	No.	4		
	To collection				

Item	Description	Unit	Quantity	Rate Ushs	Amount Ushs
	<p align="center"><b><u>PROPOSED LABORATORY BUILDING AT KAABONG GENERAL HOSPITAL</u></b></p> <p align="center"><b><u>BILL NO. 8</u></b></p> <p align="center"><b><u>ELECTRICAL INSTALLATIONS</u></b></p> <p><b>Power Supply</b></p> <p><b>Standby Generator</b></p> <p>A Water cooled Standby diesel electric generator with weather proof silencer Canopy, with Automatic start and changeover switch, complete with Heavy duty battery, day tank in base, with a Prime Rating of 30 KVA (PRP), 415Volts, 50Hz, 3 phase, power factor 0.8 complete with Controller and all accessories.</p> <p>B Installation, testing and commissioning.</p> <p>C Earthing of the generator by 25mm<sup>2</sup> bare stranded copper cable to an independent earthing manhole with Copper mat to attain resistance of less than 1 ohm.</p> <p><b>Voltage Stabilizer</b></p> <p>D 50KVA 415V, 50Hz, three phase Static Voltage Stabilizer with independent Phase control, Input range +/- 25%, output range +/-1% complete with input circuit breaker, automatic bypass switch, surge protection, digital meter to read voltages, currents, KW, KWhr, KVA, frequency and power factor, and all accessories.</p> <p><b>PV Solar System</b></p> <p>E PV Solar Panel 540W peak power Mono-crystalline</p> <p>F 100A Charge controller as Bluesolar MPPT 75/50 or equal approved.</p> <p>G Hybrid Pure sine wave INVERTER/CHARGER rated at 25KW 48Vdc/400Volts, 50 Hz, 3 phase as Victron Energy Multiplus Inverter/Charger or Equal approved complete with all accessories.</p> <p>H 20KWHr LiFePO4 battery pack at 48Vdc complete with Battery Management System (BMS) and all accessories for mounting in 19" Rack.</p> <p>J Anti-surge protection (varistor)</p> <p>K UV resistant cables</p> <p>L PV Solar Panel mount frames for mounting a panel on the roof.</p> <p>M Installation materials including cables and all sundries.</p> <p>N 100A 6way TPN MCB wall mounted recessed Distribution Board, complete with integral isolator, MCBs and all accessories, as L &amp; T or equal approved.</p> <p>P Cabling by 4cx16mm<sup>2</sup> PVC/PVC Copper cables in cable duct complete with terminations, glanding, clipping and all accessories</p>				
	To collection				





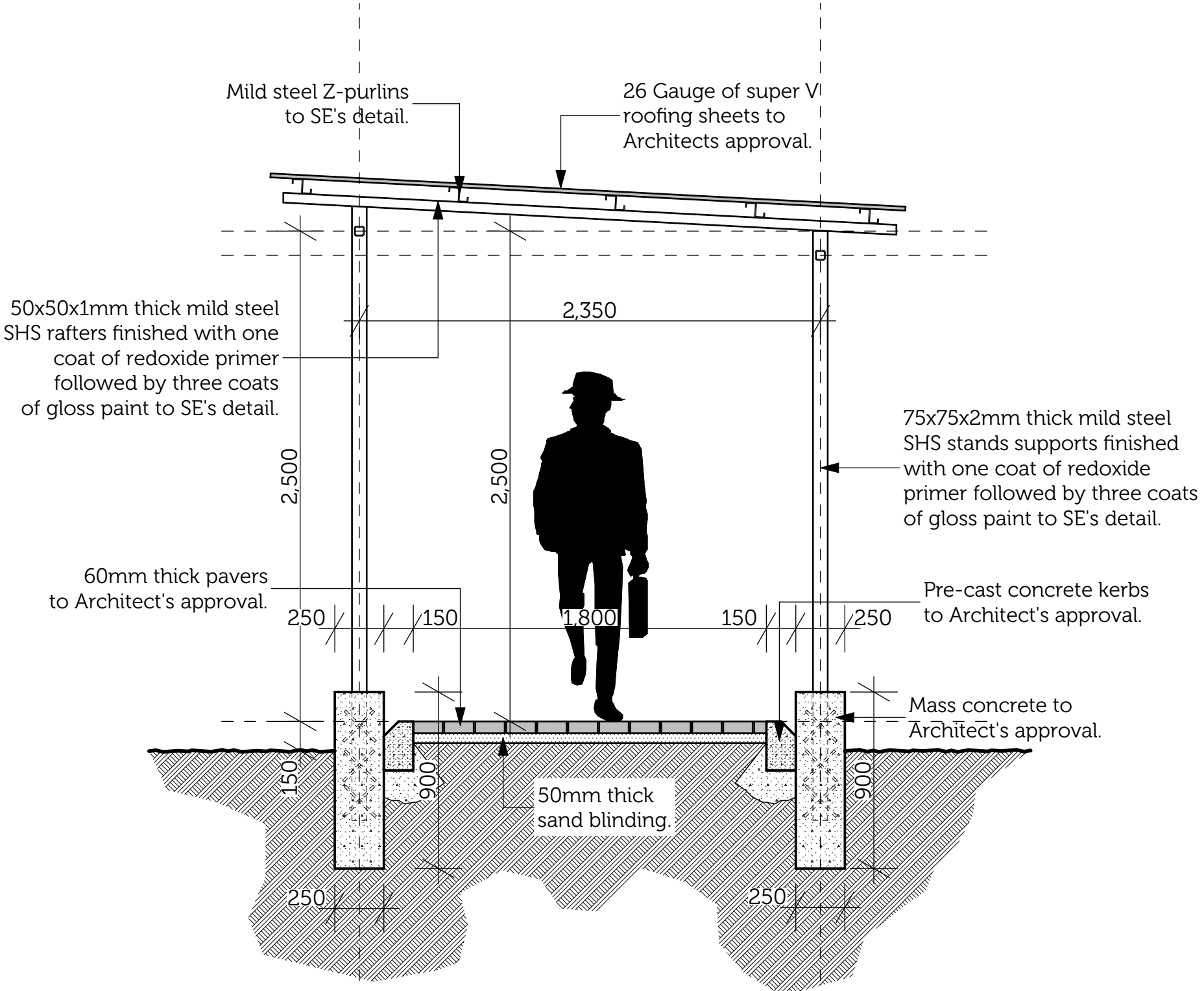
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	<b>TOTAL CARRIED TO GENERAL SUMMARY</b>				-



LOCATION PLAN

PC- 489/01-SD-01

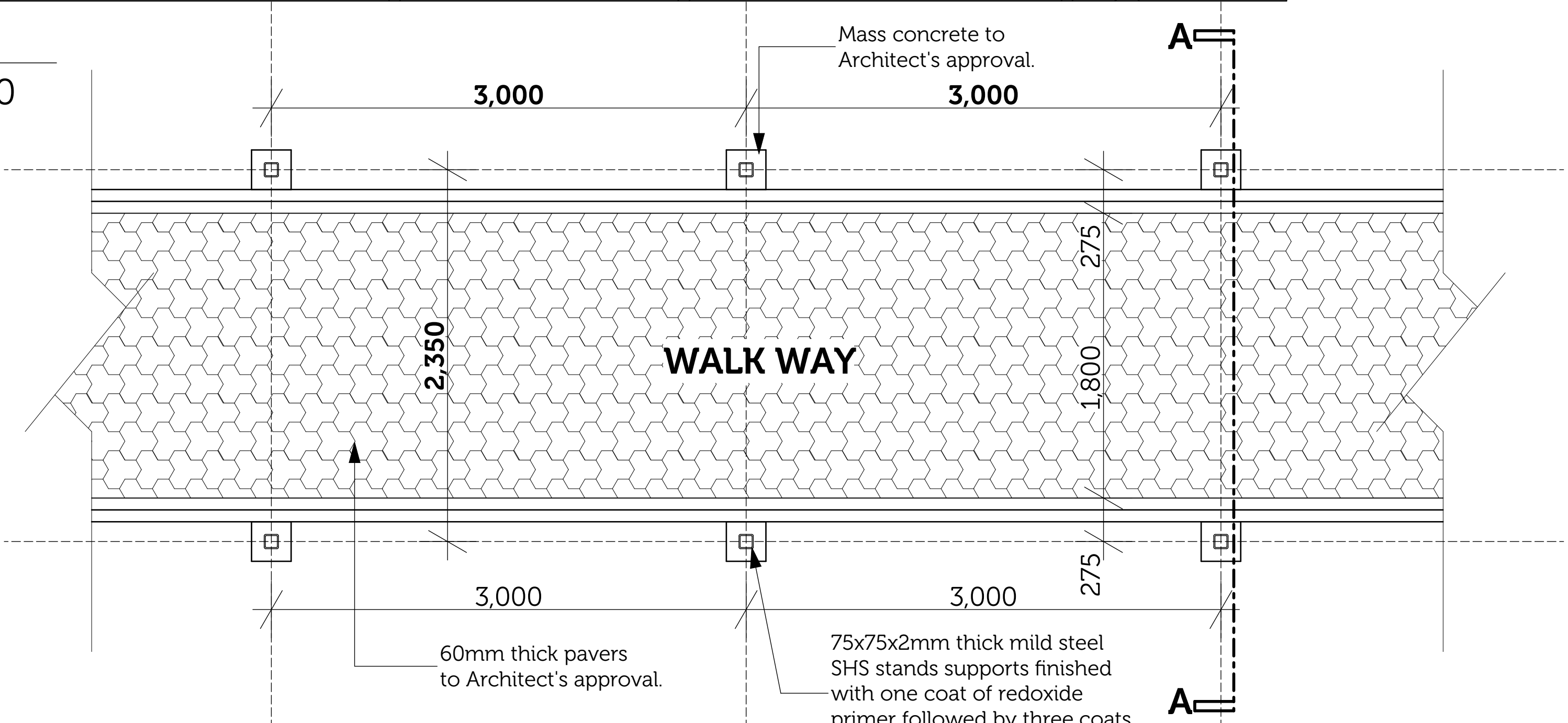
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COVERED WALK WAY SECTION A-A

PC- 489/01-SD-012


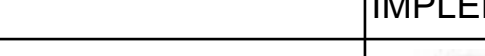

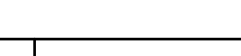

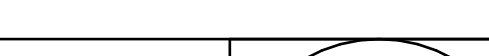
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COVERED WALK WAY DETAIL

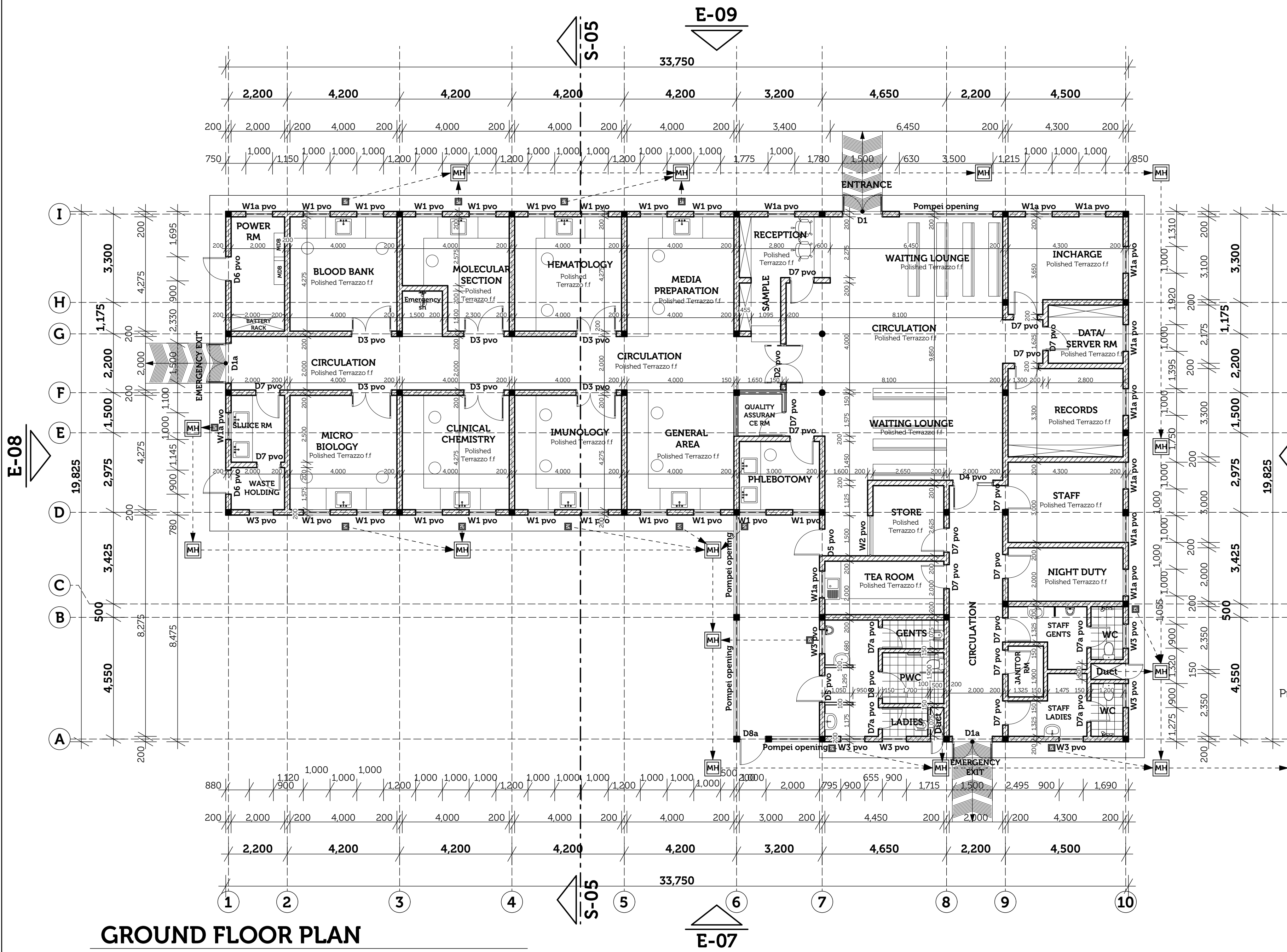
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FUNDING AGENCY:		IMPLEMENTING PARTNER:	PROJECT:	CLIENT:	LEAD CONSULTANT	DRAWING:					
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		UGANDA HEALTH ACTIVITY					PC No.	489/01	Date	July 2024	
									Drawn	Jacson & Ibrahim	
									Checked	PMT	







### GROUND FLOOR PLAN

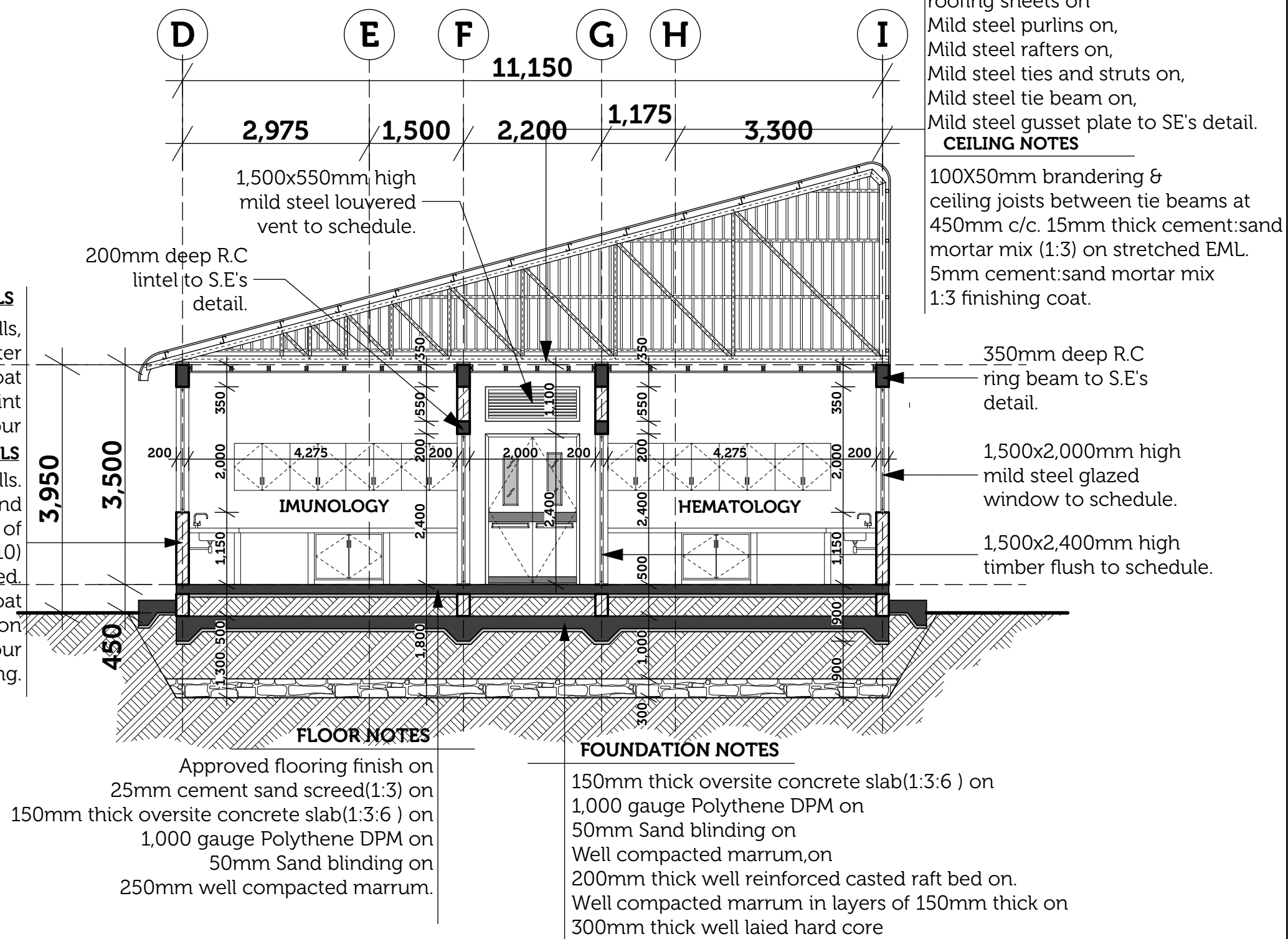
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### FINISHES SCHEDULE

Ceiling and Beam	Worktops	Wall Finish	Skirting	Floor Finish	Columns	Doors	Windows
25mm thick cement : sand plaster well trowelled to recieve one layer of under coat followed by three coats of Emulsion paint	Insitu polished terrazzo; first coat of cement and sand (1:3); second coat of cement and local marble chippings (1:2); approval colour; including forming margins and setting 20x6mm division strips to Architect's satisfaction.	25mm thick cement : sand plaster well steel trowelled to recieve one layer of under coat followed by three coats of silk vinyl paint to Archirect's colour schedule and approval.  25mm thick cement : sand plaster wood floated to recieve 6mm thick wall glazed ceramic tiles fixed with 10mm thick adhesive mixture backing and joints filled with grouts to Architect's satisfaction <b>(To All Wet Areas).</b>	Insitu polished terrazzo; first coat of cement and sand (1:3); second coat of cement and local marble chippings (1:2); approval colour; including forming margins and setting 20x6mm division strips to Architect's satisfaction.	Insitu polished terrazzo; first coat of cement and sand (1:3); second coat of cement and local marble chippings (1:2); approval colour; including forming margins and setting 20x6mm division strips to Architect's satisfaction <b>(To All Floors and Ramp).</b>	25mm thick cement : sand plaster well steel trowelled to recieve one layer of under coat followed by three coats of silk vinyl paint to Archirect's colour schedule and approval.	One layer of undercoat of redoxide primer followed by three coats of super gloss paint to Architec's colour schedule <b>(To All Mild Steel Doors).</b>  One layer of undercoat followed by three coats of clear vernish to Architec's approval <b>(To All Timber Doors).</b>	One layer of undercoat of redoxide primer followed by three coats of super gloss paint to Architec's colour schedule <b>(To All Mild Steel Windows).</b>


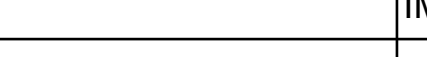
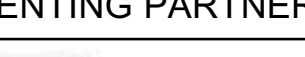


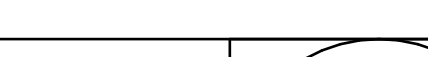
**EXTERNAL WALLS**  
200mm concrete block walls, cement sand plaster  
1 coat of universal undercoat  
2 coats of weatherguard paint to approved colour  
**INTERNAL WALLS**  
200mm concrete block walls.  
9mm 1st coat of cement sand plaster(1:6) 3mm 2nd coat of cement and lime putty(1:10) steel trowelled.  
1 coat of universal undercoat  
2 coats of silk vinyl emulsion paint to approved colour  
Provide 100mm high timber skirting.

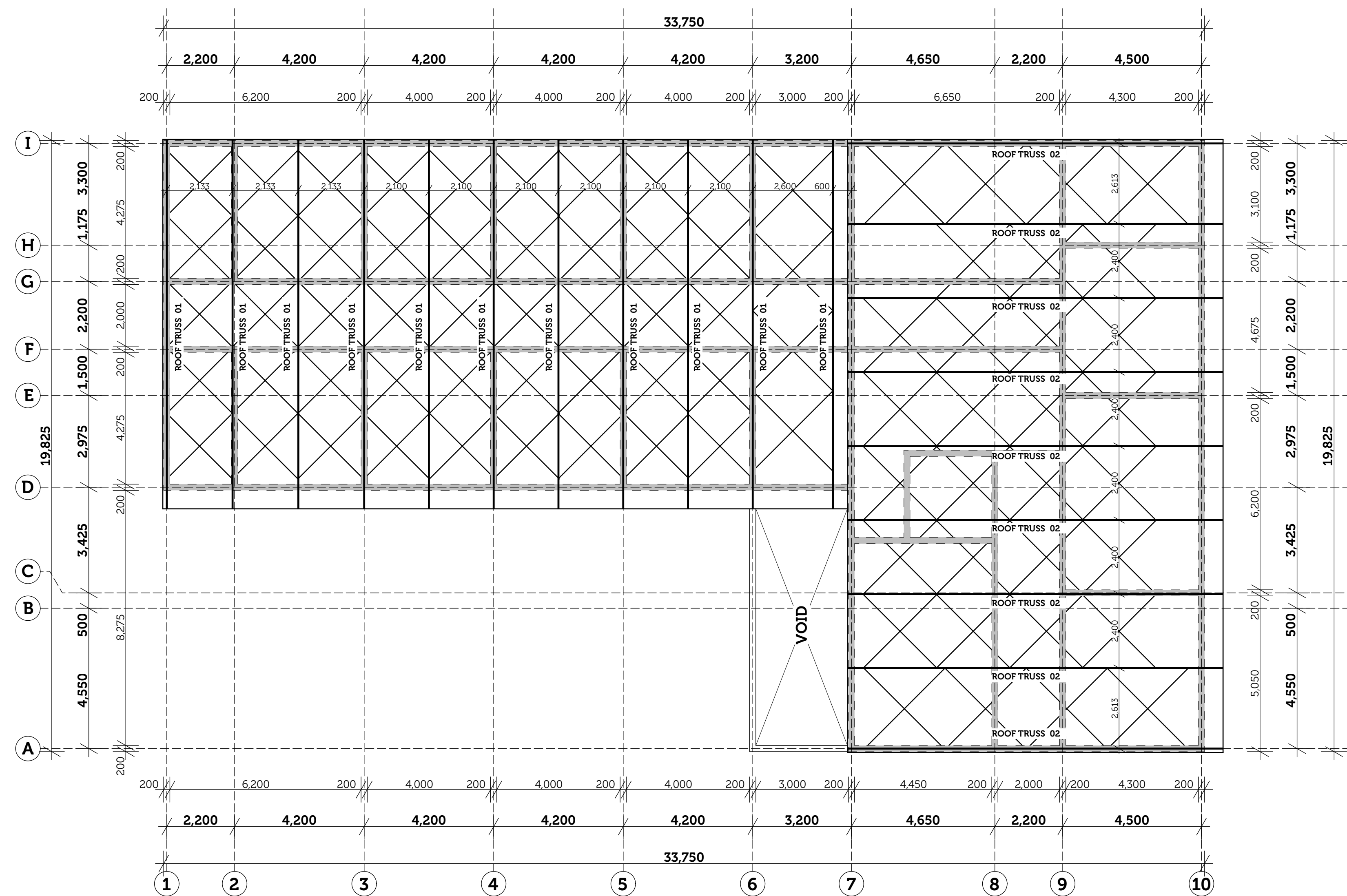


### SECTION L[--]05

PC- 489/01-SD-05

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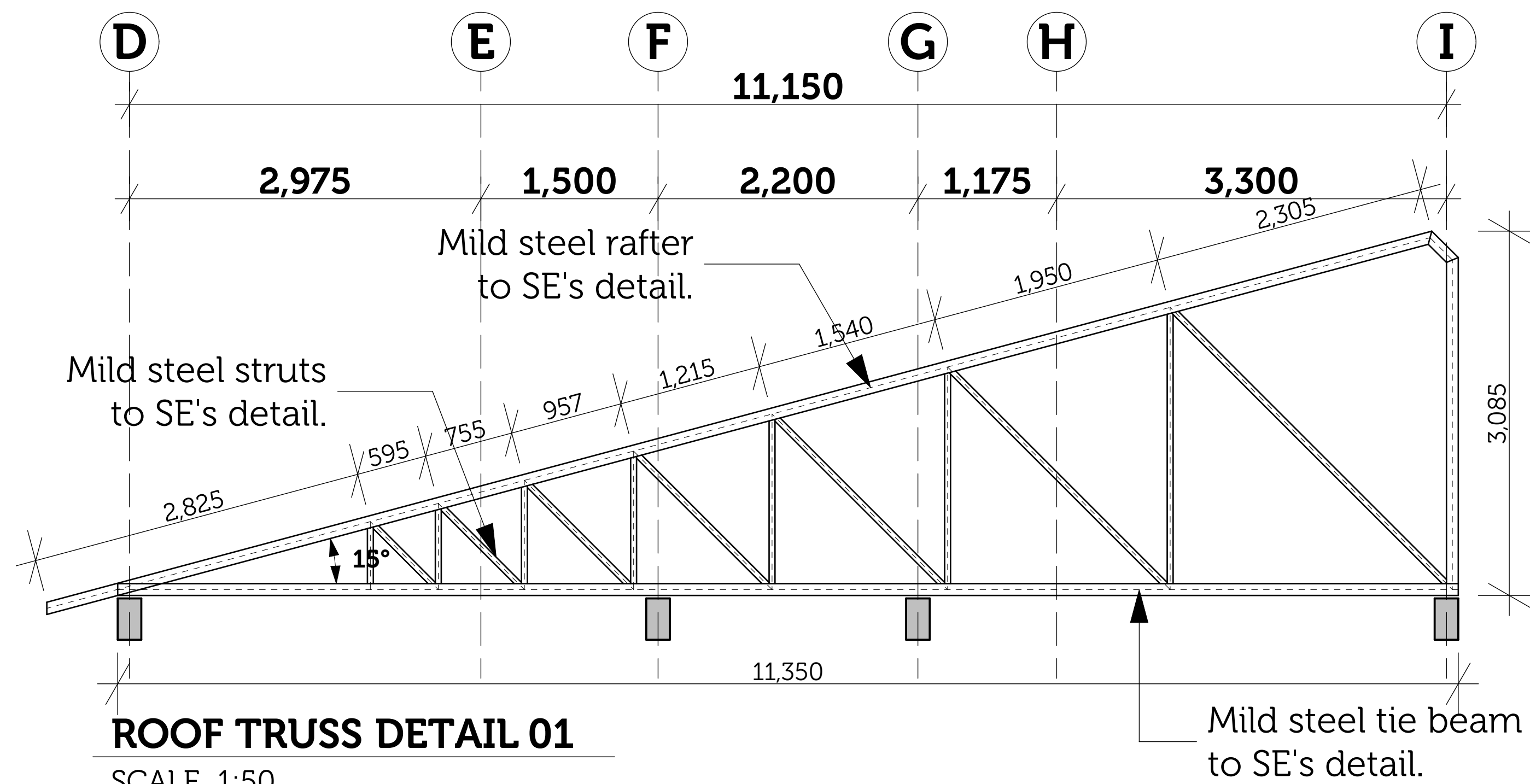
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 PEPFAR	 USAID FROM THE AMERICAN PEOPLE	 URC UNIVERSITY RESEARCH CO. LLC	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT	 Republic Of Uganda Kaabong GH	 PlantekLimited Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Lule Zone, Kabusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	Schematic Drawings	Sheet No.	03/08	Scale	As shown	
							PC No.	489/01	Date	July 2024	
								Drawn	Jacson & Ibrahim		
								Checked	PMT		



**ROOF TRUSS LAYOUT PLAN**

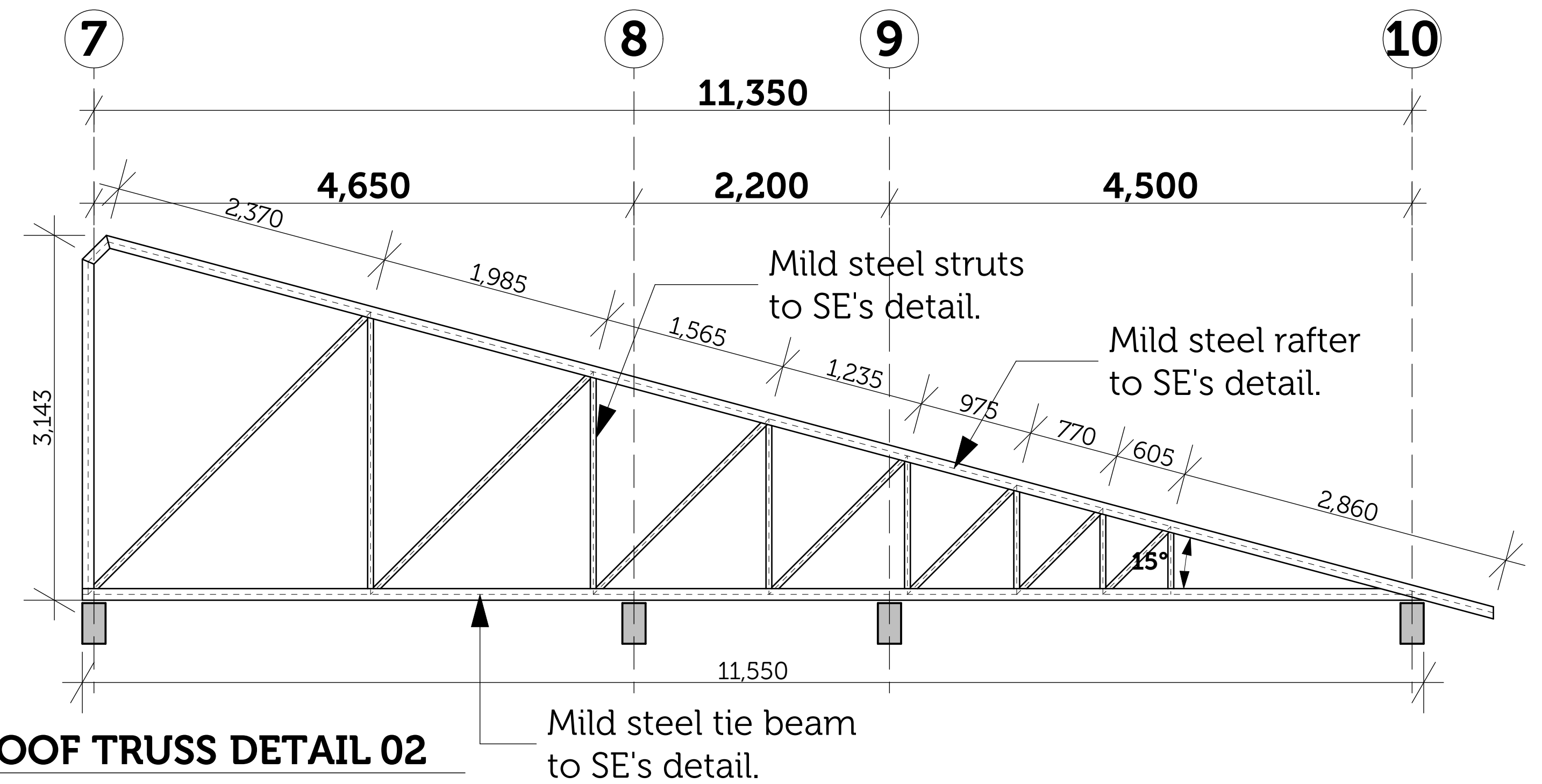
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**ROOF TRUSS DETAIL 01**

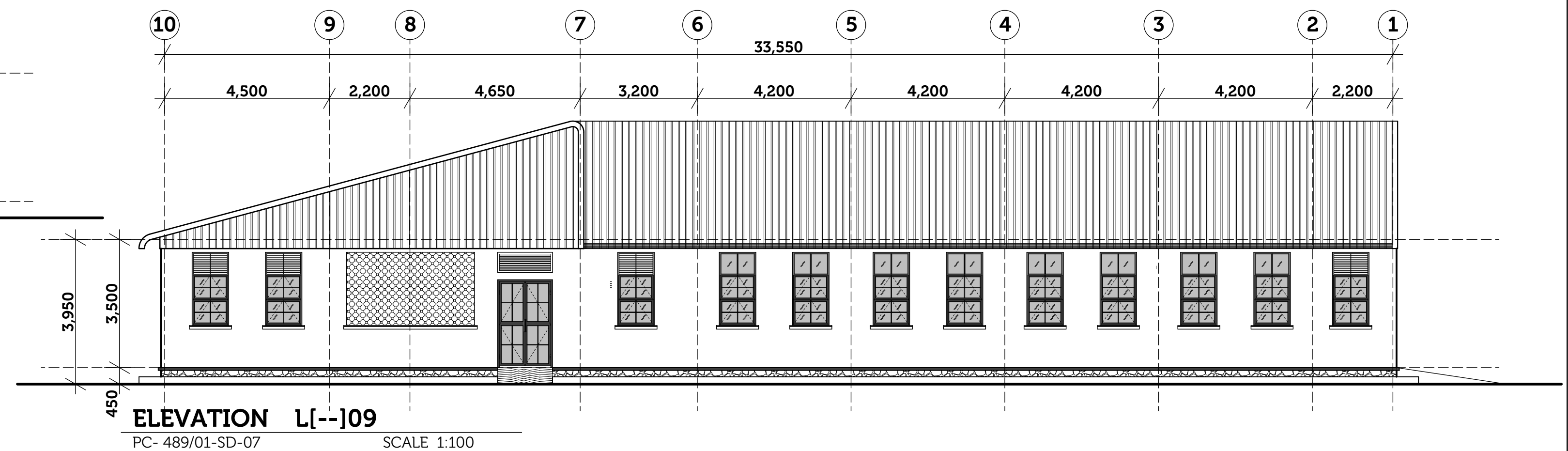
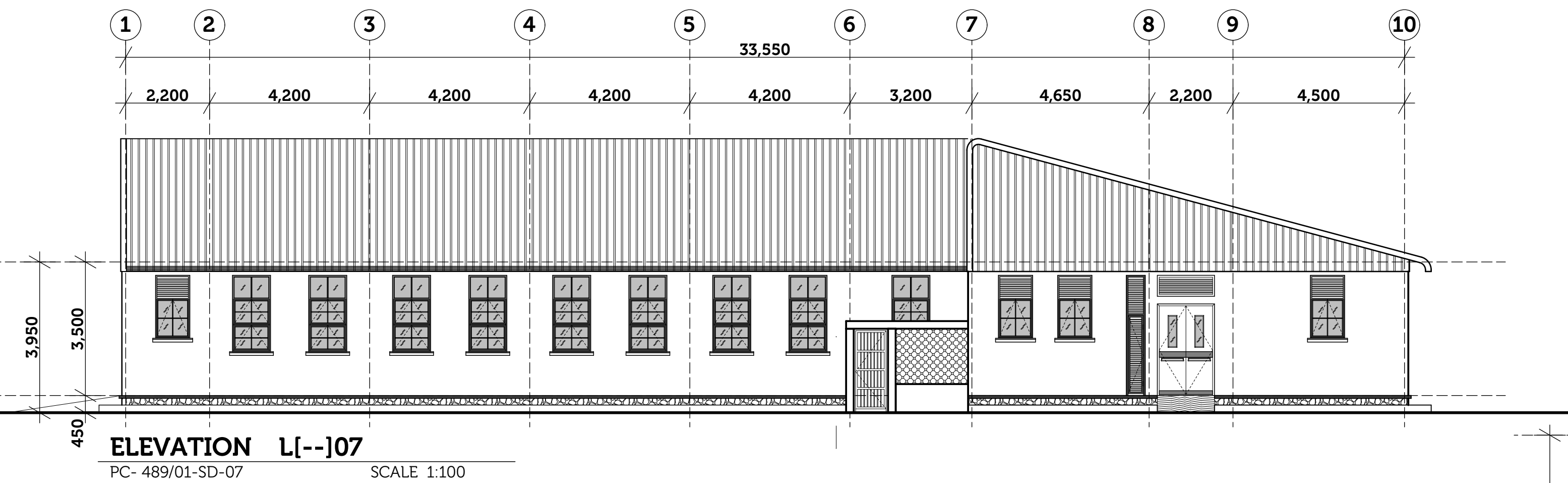
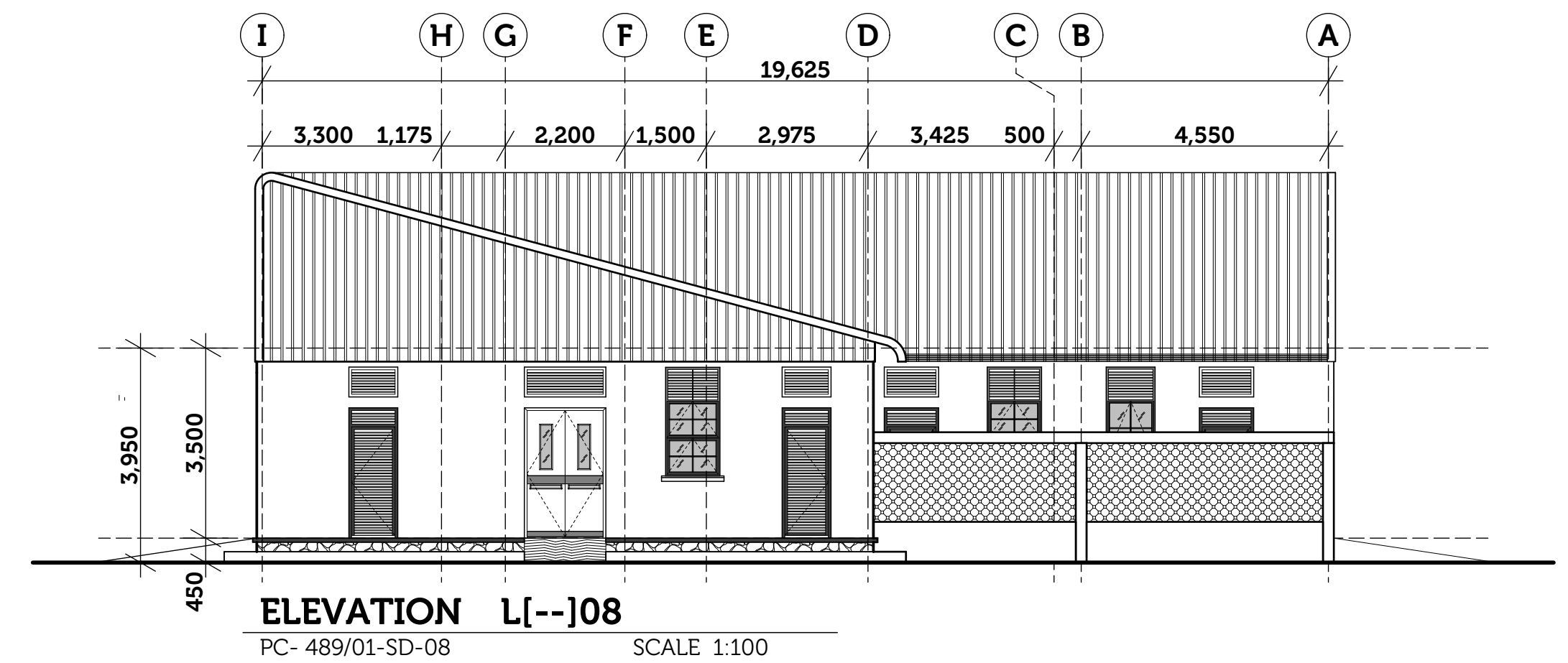
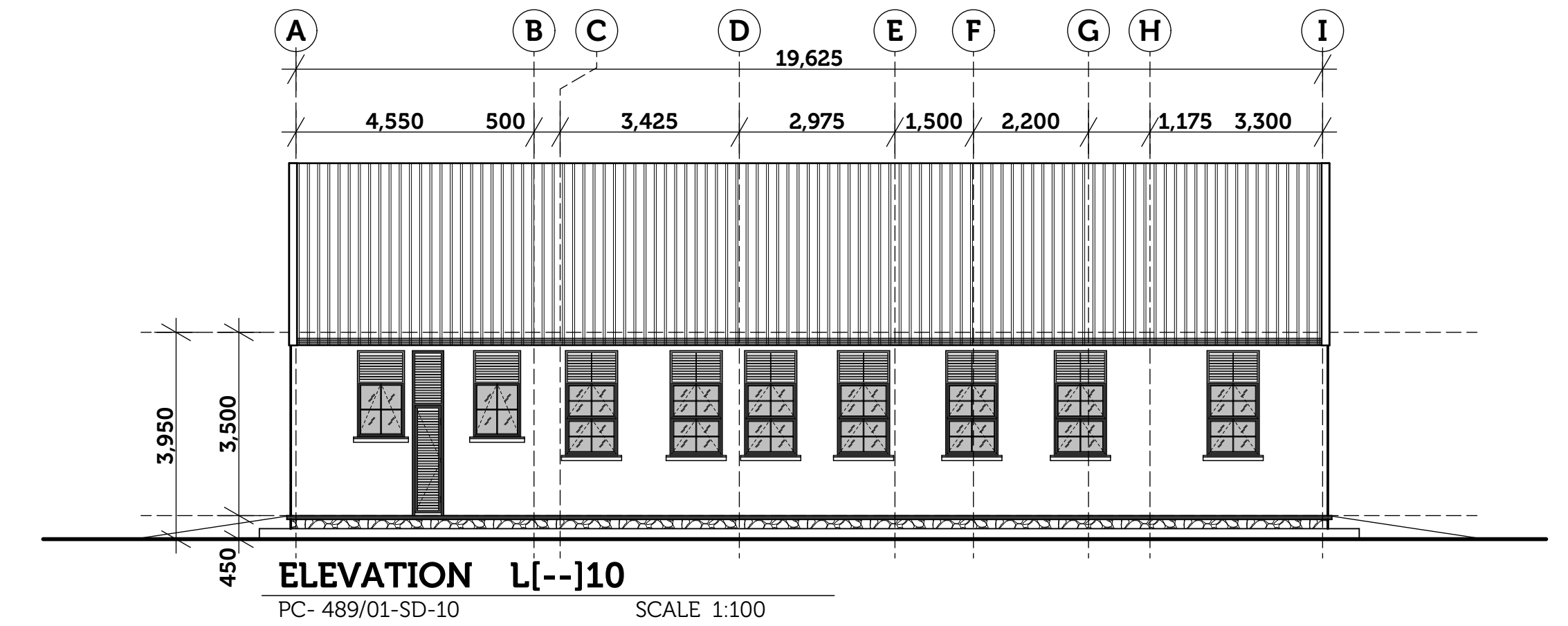
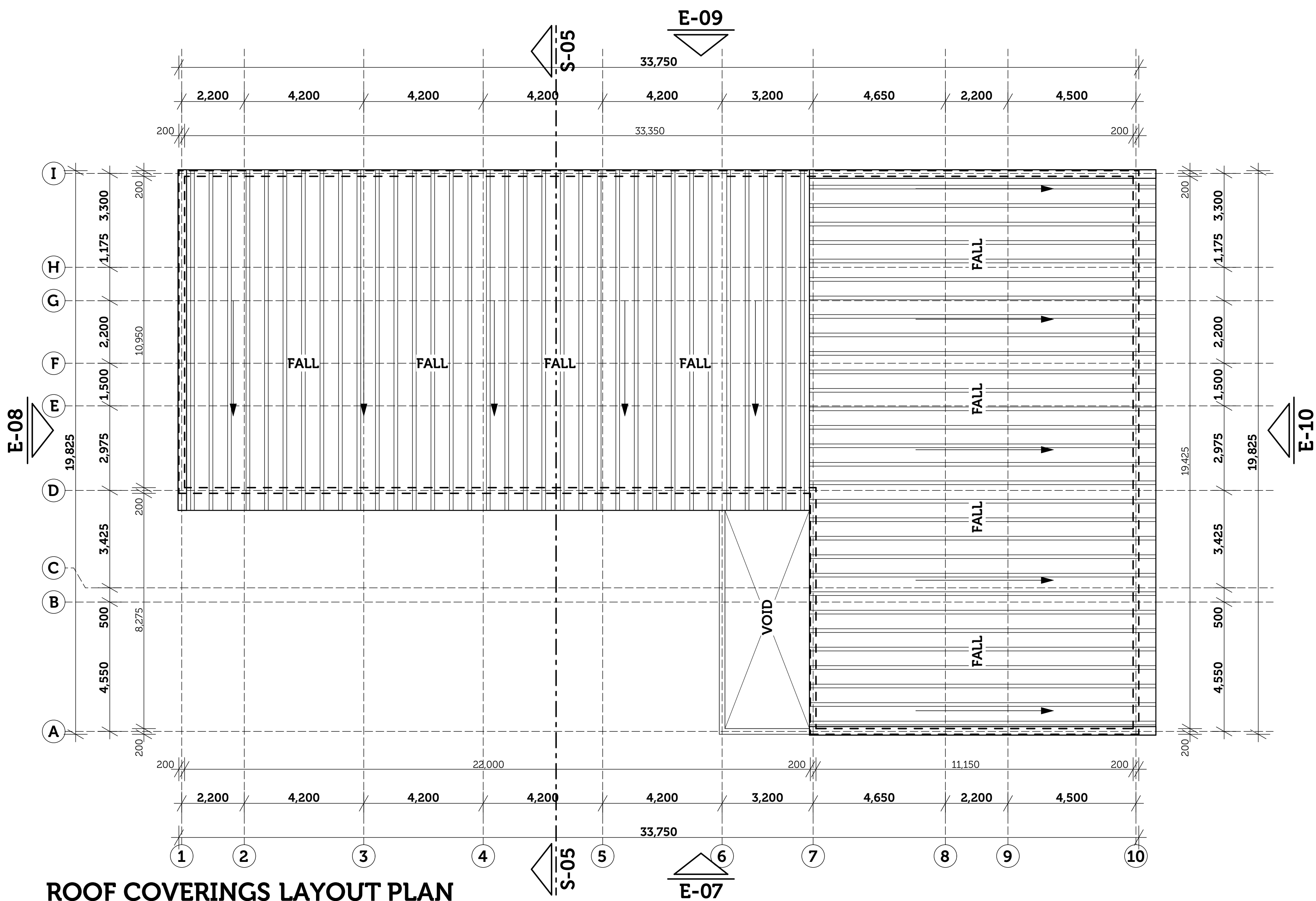
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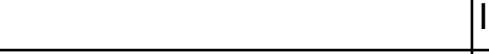

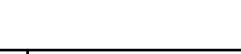




**ROOF TRUSS DETAIL 02**

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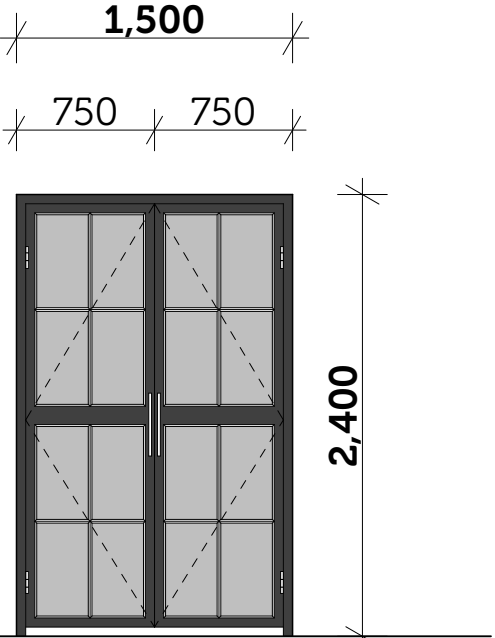
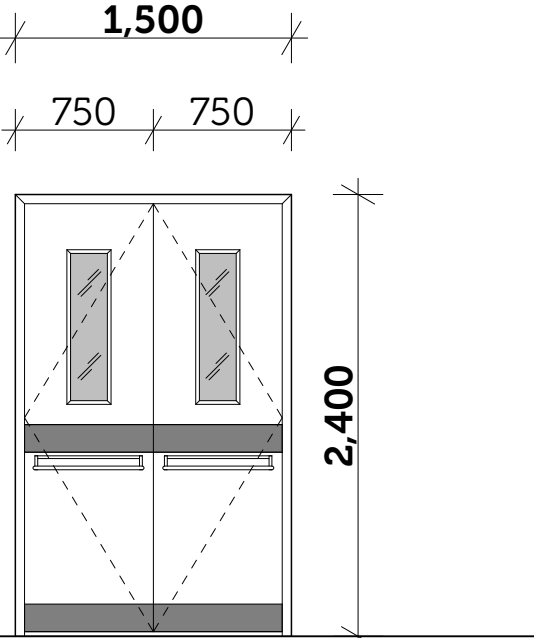
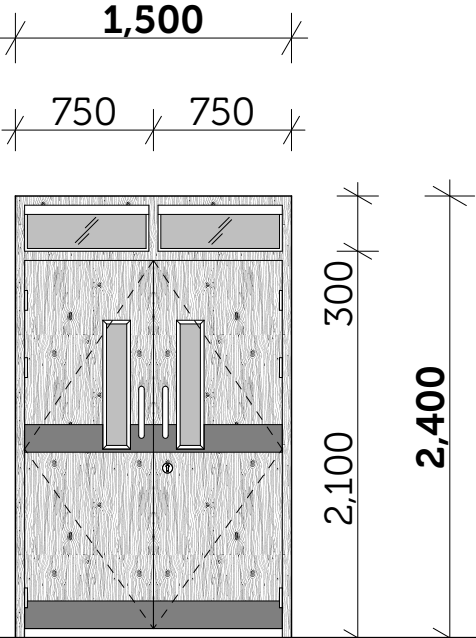
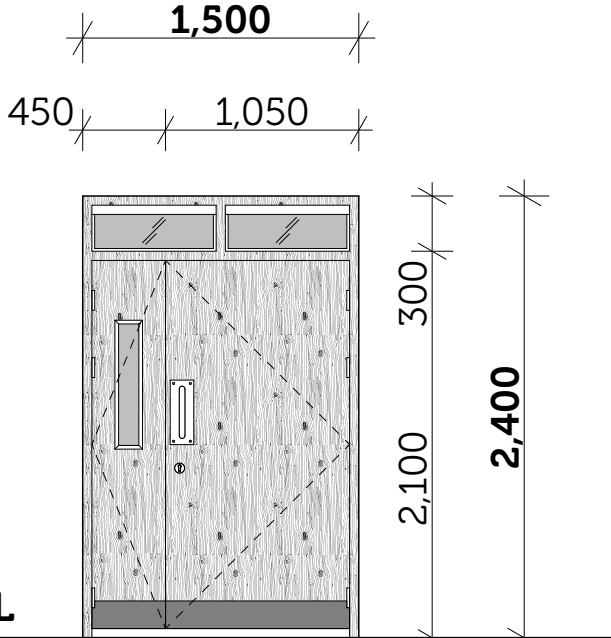
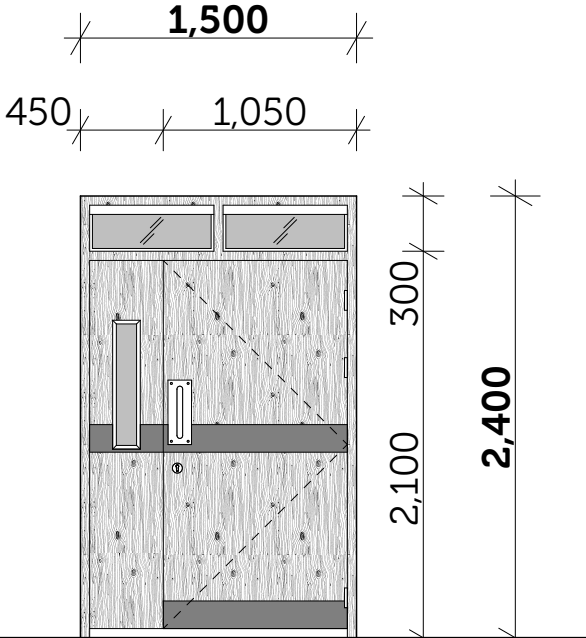
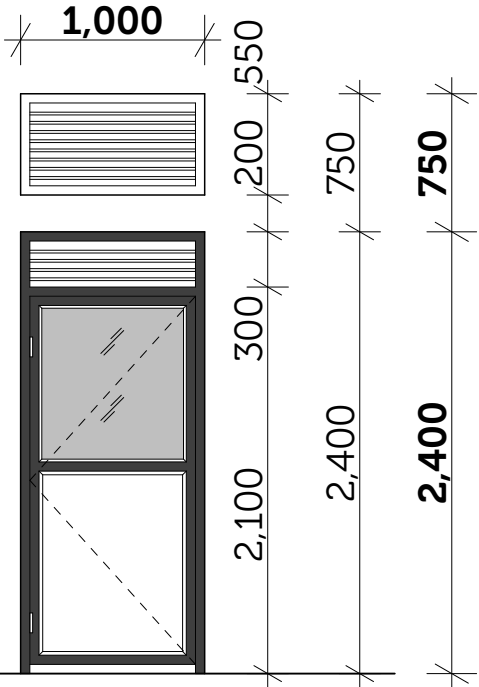
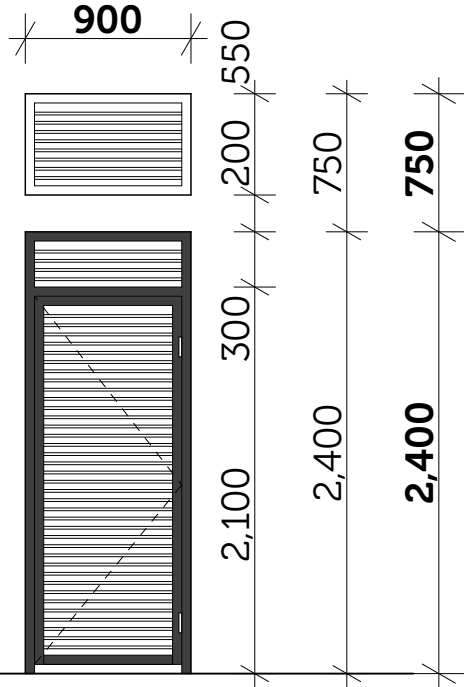
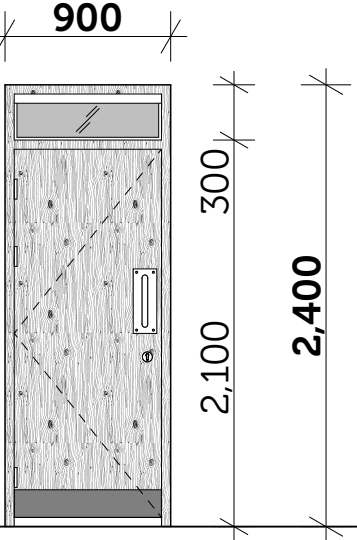
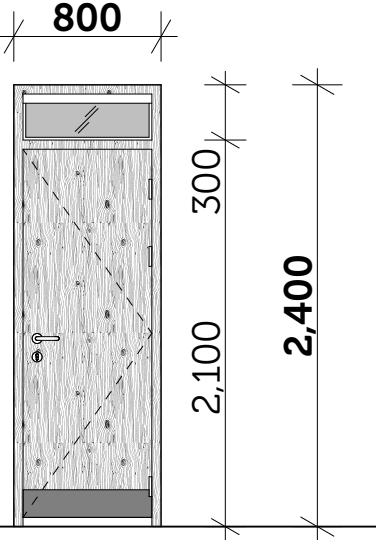
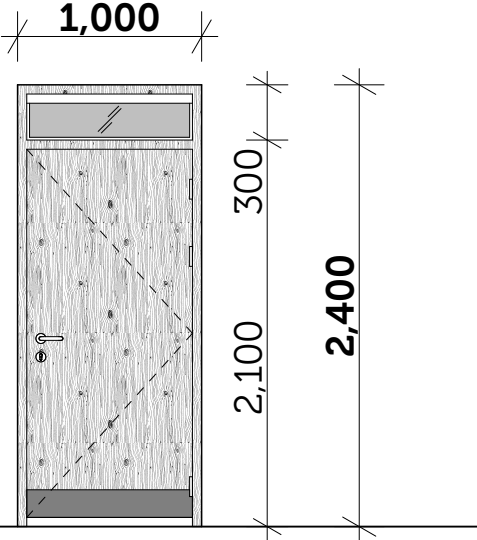
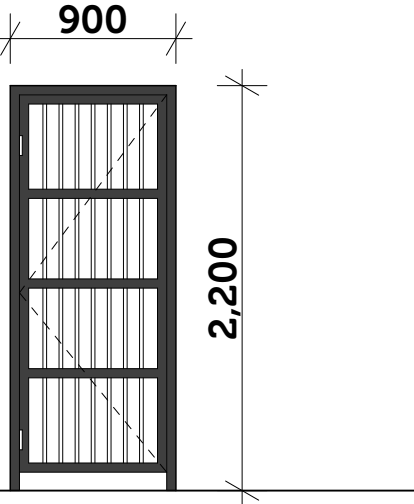
FUNDING AGENCY:		IMPLEMENTING PARTNER:	PROJECT:	CLIENT:	LEAD CONSULTANT	DRAWING:						
		 UNIVERSITY RESEARCH CO. LLC  UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT	 Republic Of Uganda Kaabong GH	 Kaabong General Hospital (Kaabong District)   PlantekLimited Building Spaces. For Life  Plot 171, Block 17, Nayiga Road, Luile Zone, Kabusuu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	Schematic Drawings	Sheet No.	04/08	Scale	As shown		
									Date	July 2024		
							PC No.	489/01	Drawn	Jacson & Ibrahim		
									Checked	PMT		



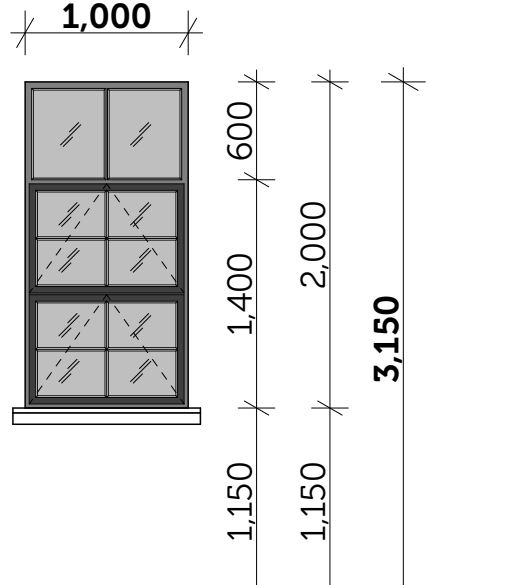
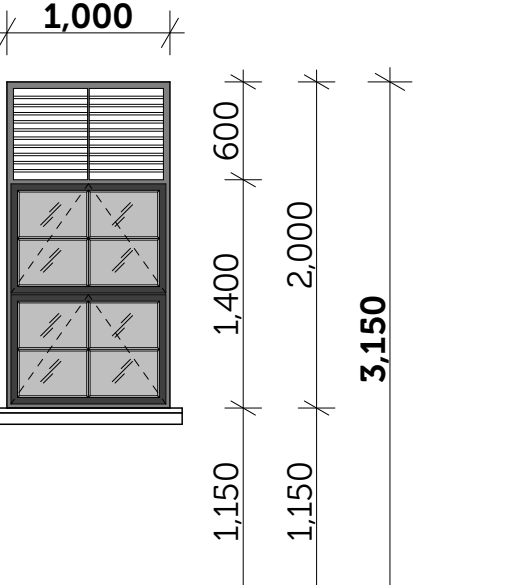
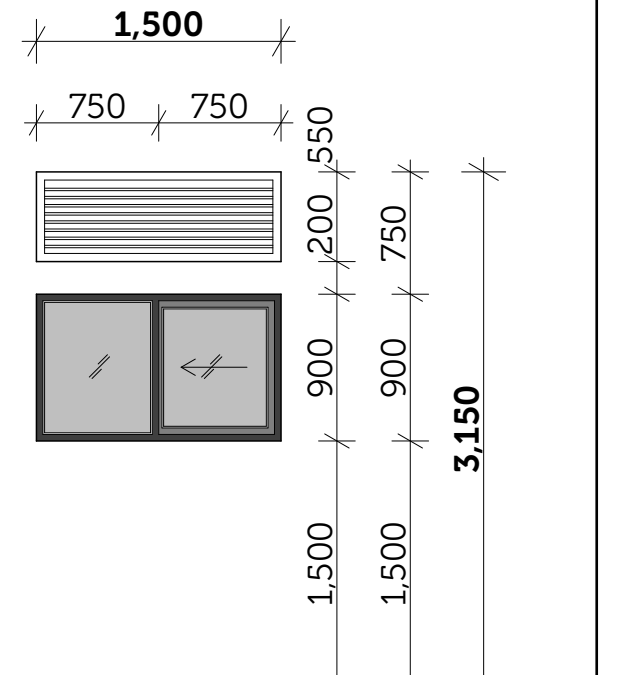
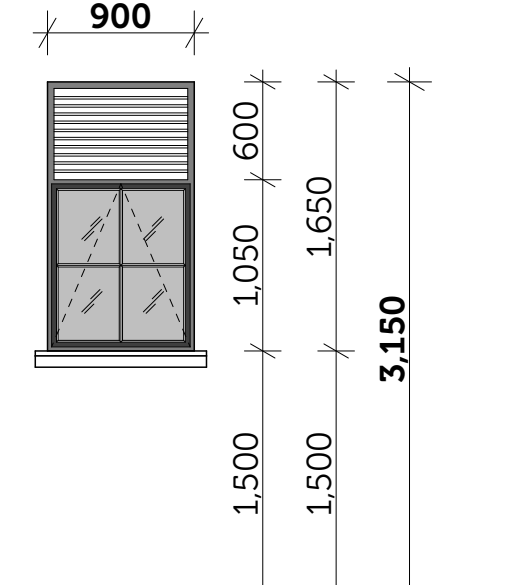
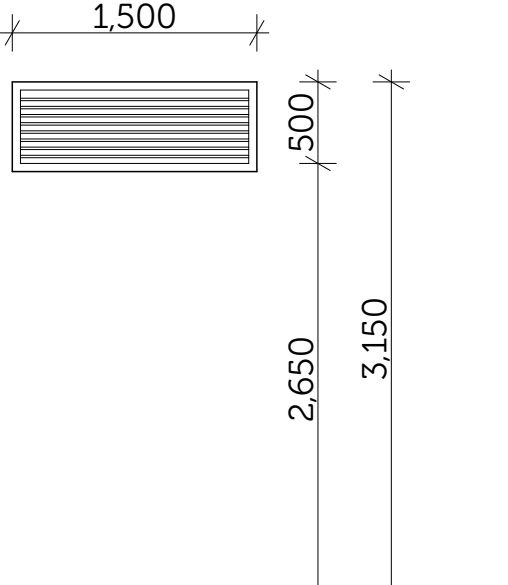
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		 UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT	 Republic Of Uganda Kaabong GH	Kaabong General Hospital (Kaabong District)	 PlantekLimited Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Lule Zone, Kabuusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	Schematic Drawings	Sheet No.	05/08	Scale	As shown	
									Date	July 2024		
							PC No.	489/01	Drawn	Jacson & Ibrahim		
									Checked	PMT		






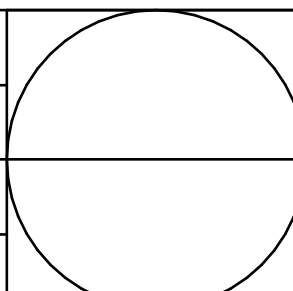


DOOR SCHEDULE

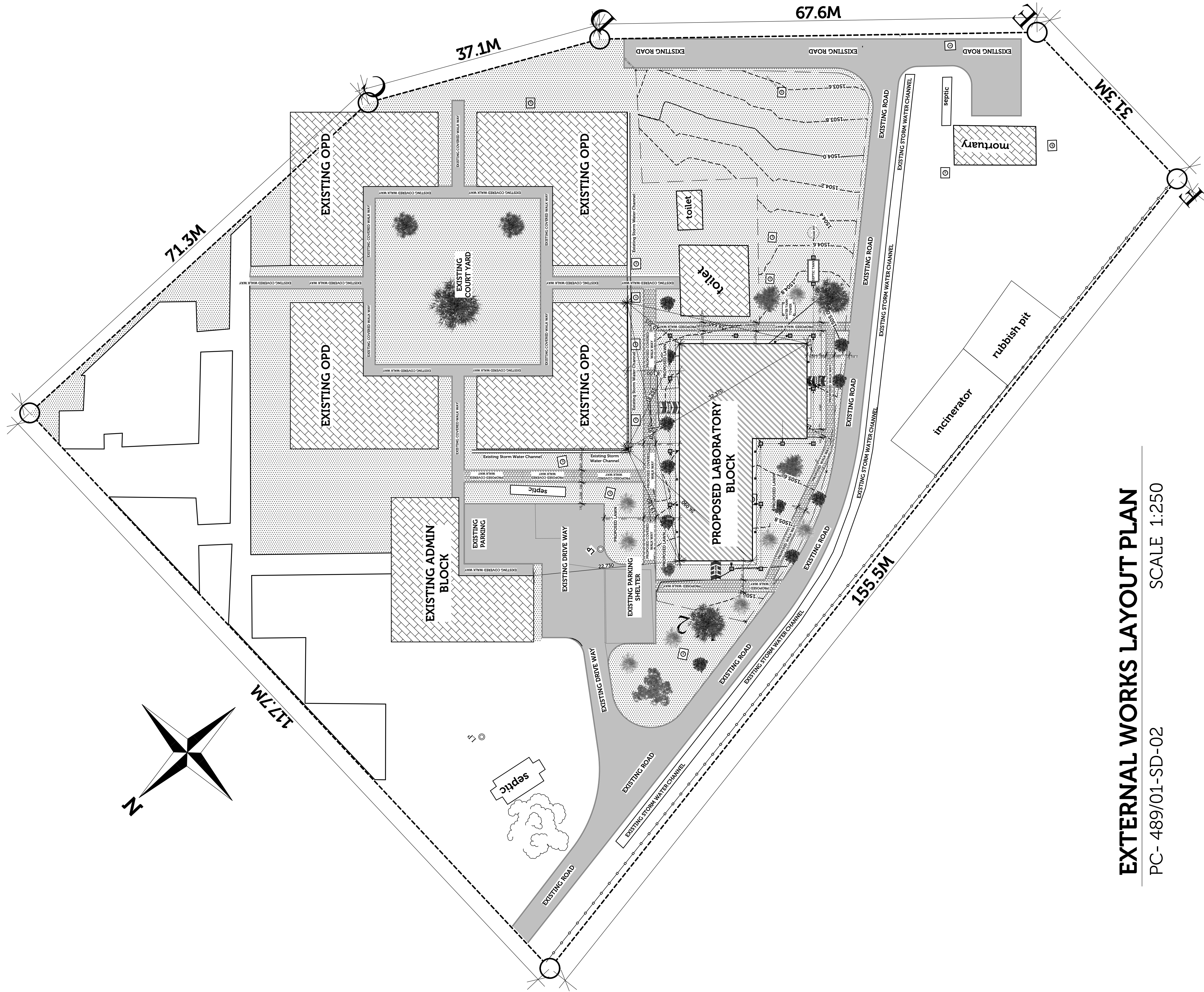
MARK	D1	D1a	D2 pvo	D3 pvo	D4 pvo	
ELEVATION						
SIZE(WXH)	1,500X2,400 mm	1,500X2,400 mm	1,500X2,400 mm	1,500X2,400 mm	1,500X2,400 mm	
TOTAL No.	01 pc	02 pcs	01 pc	06 pcs	01 pc	
DESCRIPTION	Purpose mild steel glazed double swinging door with 4mm thick clear glazing to detail, well fixed on an mild steel frame complete with all accessories to a specialist.	Solid core mahogany vernished Timber flush door 50mm thick, side hung swinging thru.90° well fixed on an 250x50mm thick timber frame complete with all accessories.	Solid core mahogany vernished Timber flush door 50mm thick, side hung swinging thru.90° well fixed on an 250x50mm thick timber frame complete with all accessories.	Solid core mahogany vernished Timber flush door 50mm thick, side hung swinging thru.90° well fixed on an 250x50mm thick timber frame complete with all accessories.	Solid core mahogany vernished Timber flush door 50mm thick, side hung swinging thru.90° well fixed on an 250x50mm thick timber frame complete with all accessories.	
MARK	D5 pvo	D6 pvo	D7 pvo	D7a pvo	D8 pvo	D8a
ELEVATION						
SIZE(WXH)	1,000X2,400 mm	900X2,400 mm	900X2,400 mm	900X2,400 mm	1,000X2,400 mm	900X2,200 mm
TOTAL No.	02 pcs	02 pcs	15 pcs	04 pcs	02 pcs	01 pc
DESCRIPTION	Purpose mild steel glazed single swinging door with 4mm thick clear glazing to detail, well fixed on an mild steel frame complete with all accessories to a specialist.	Purpose made mild steel louvered swinging door with 1.2mm thick steel members to detail,sliding thru.90° well fixed on an a 80x40x1.2mm thick mild steel frame	Solid core mahogany vernished Timber flush door 50mm thick, side hung swinging thru.90° well fixed on an 250x50mm thick timber frame complete with all accessories.	Solid core mahogany vernished Timber flush door 50mm thick, side hung swinging thru.90° well fixed on an 250x50mm thick timber frame complete with all accessories.	Solid core mahogany vernished Timber flush door 50mm thick, side hung swinging thru.90° well fixed on an 250x50mm thick timber frame complete with all accessories.	Purpose made mild steel grill swinging door with 1.2mm thick steel members to detail,sliding thru.90° well fixed on an a 40x40x1.2mm thick mild steel frame

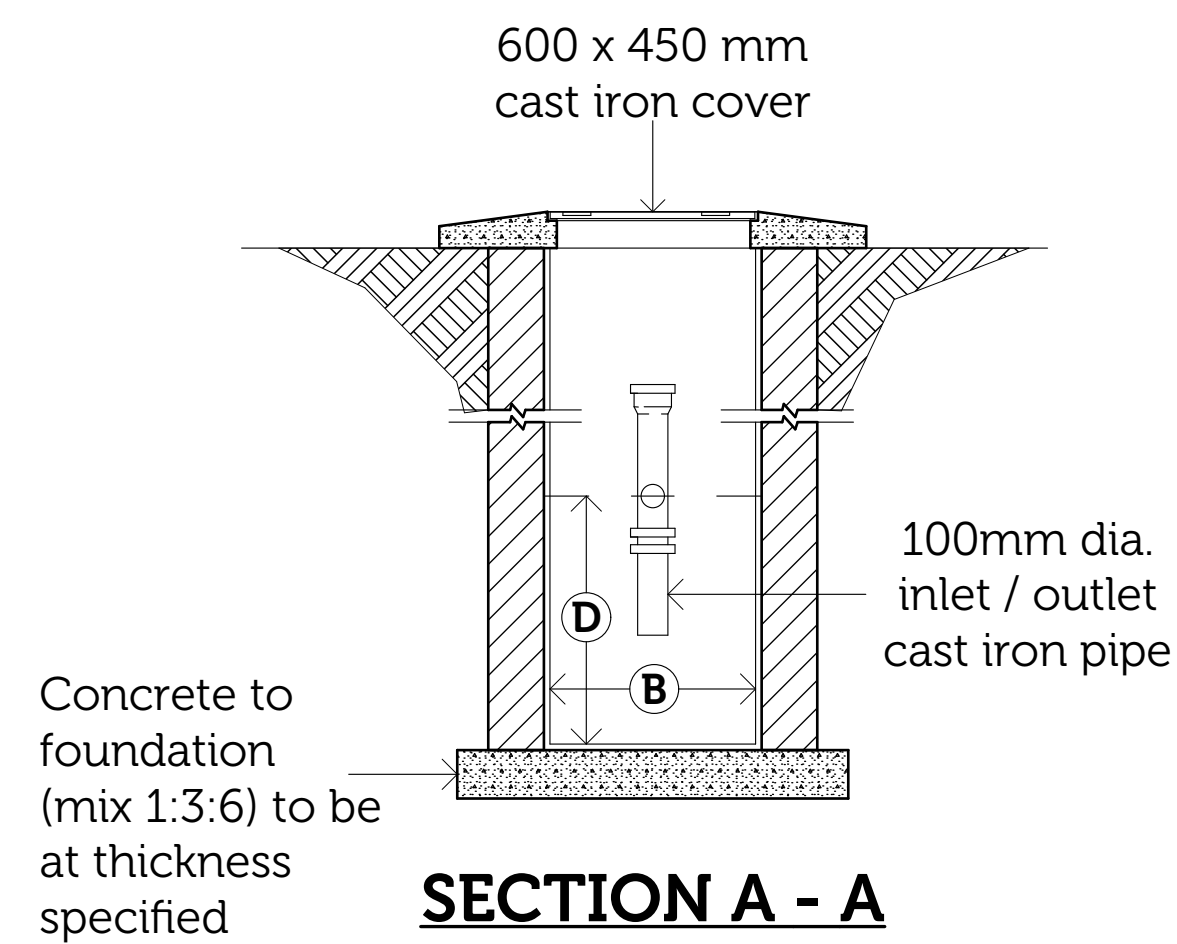
WINDOW SCHEDULE

MARK	W1 pvo	W1a pvo	W2 pvo	W3 pvo	LV 01
ELEVATION					
SIZE(WXH)	1,000 X 2,000 mm	1,000 X 2,000 mm	1,500 X 1,500 mm	900 X 1,650 mm	1,500 X 500 mm
TOTAL No.	17 pcs	13 pcs	01 pc	07 pcs	03 pcs
DESCRIPTION	Purpose made mild steel glazed window complete with 4mm thick clear glazing sheet, and all other accessories. Construct a pre-cast reinforced concrete grade 25 moulded window cill of 125x75mm thick, weathered and throated.	Purpose made mild steel glazed window complete with 4mm thick clear glazing sheet, 1.2mm thick louvered plates on vent and all other accessories. Construct a pre-cast reinforced concrete grade 25 moulded window cill of 125x75mm thick, weathered and throated.	Purpose made mild steel glazed window complete with 4mm thick clear glazing sheet, 1.2mm thick louvered plates on vent over and all other accessories. Construct a pre-cast reinforced concrete grade 25 moulded window cill of 125x75mm thick, weathered and throated.	Purpose made mild steel glazed window complete with 4mm thick clear glazing sheet, 1.2mm thick louvered plates on vent and all other accessories. Construct a pre-cast reinforced concrete grade 25 moulded window cill of 125x75mm thick, weathered and throated.	Purpose made mild steel louvered vent complete with mild steel louvered plate to detail.

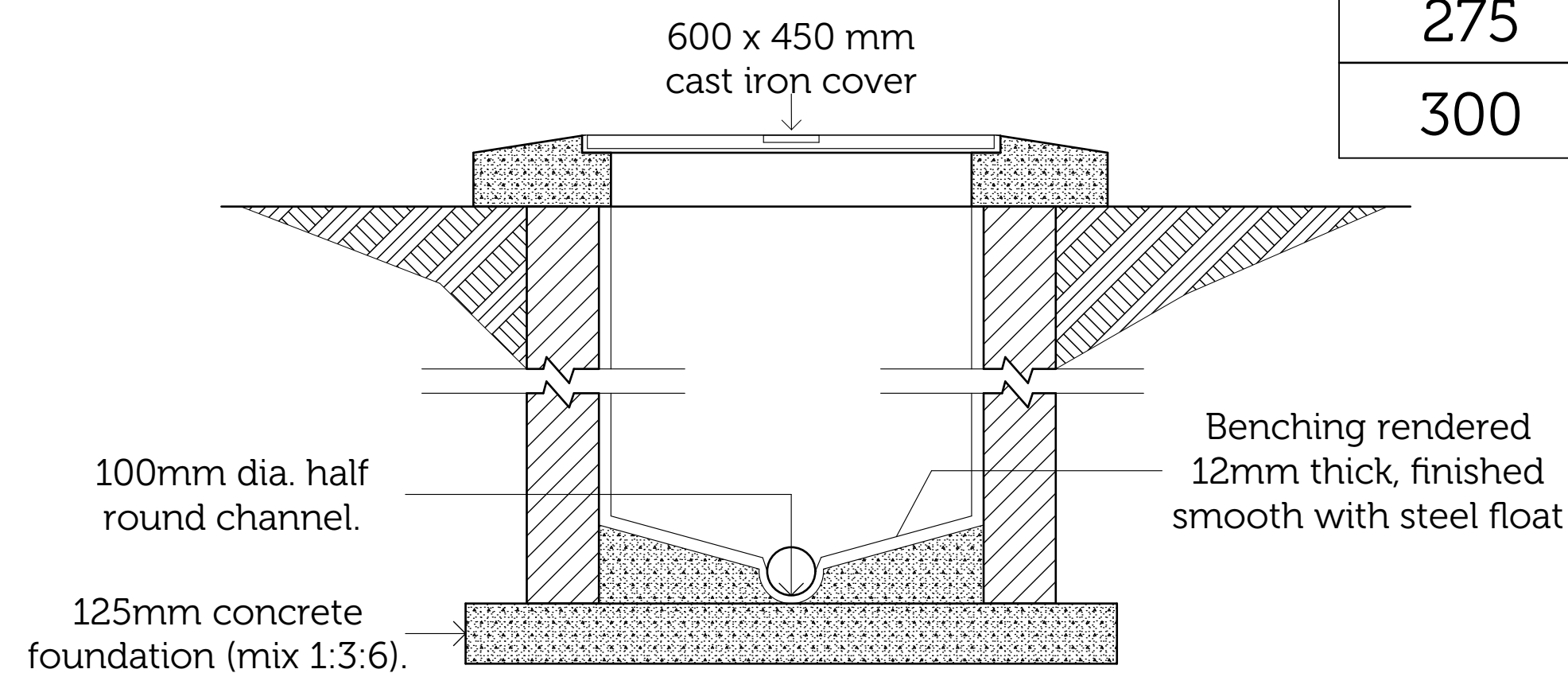
FUNDING AGENCY:		IMPLEMENTING PARTNER:	PROJECT:	CLIENT:	LEAD CONSULTANT	DRAWING:						
			USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT		Kaabong General Hospital (Kaabong District)		Schematic Drawings	Sheet No.	06/08	Scale	As shown	
								PC No.	489/01	Date	July 2024	
										Drawn	Jacson & Ibrahim	
										Checked	PMT	



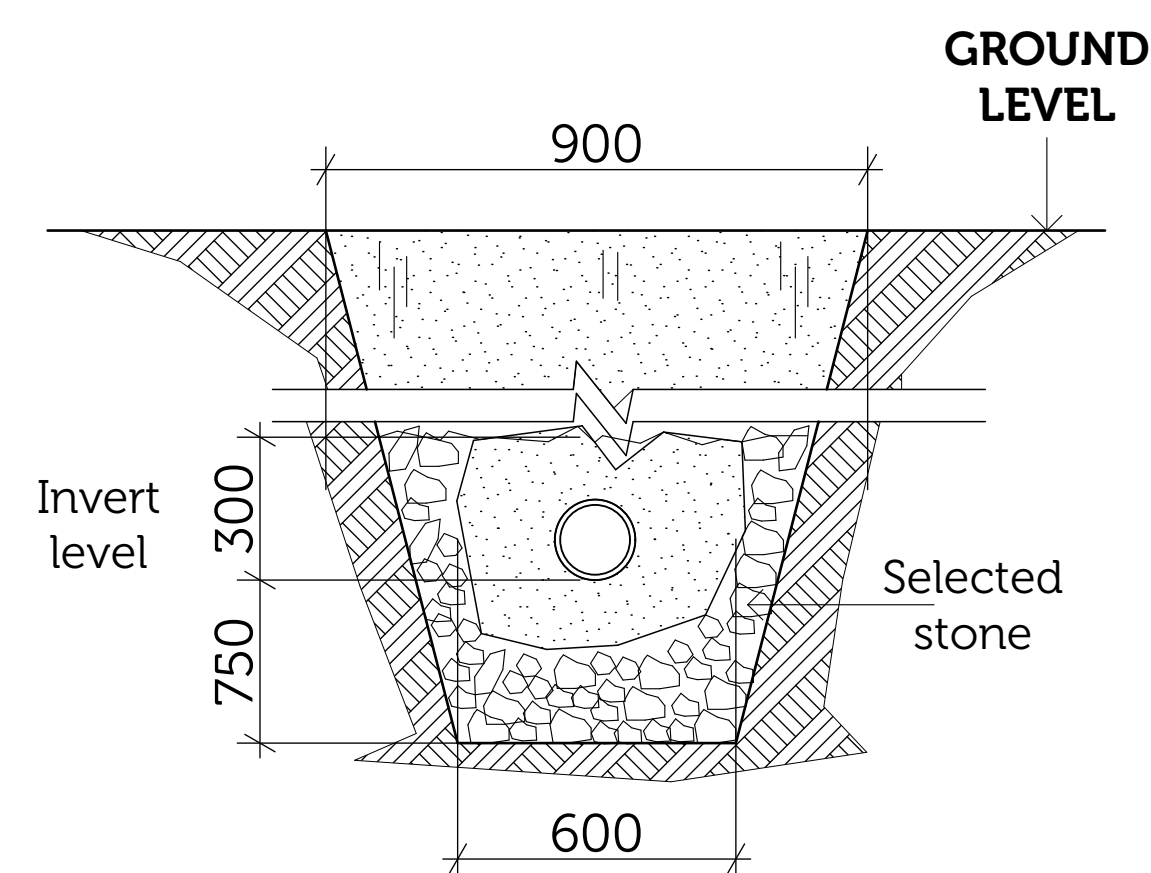




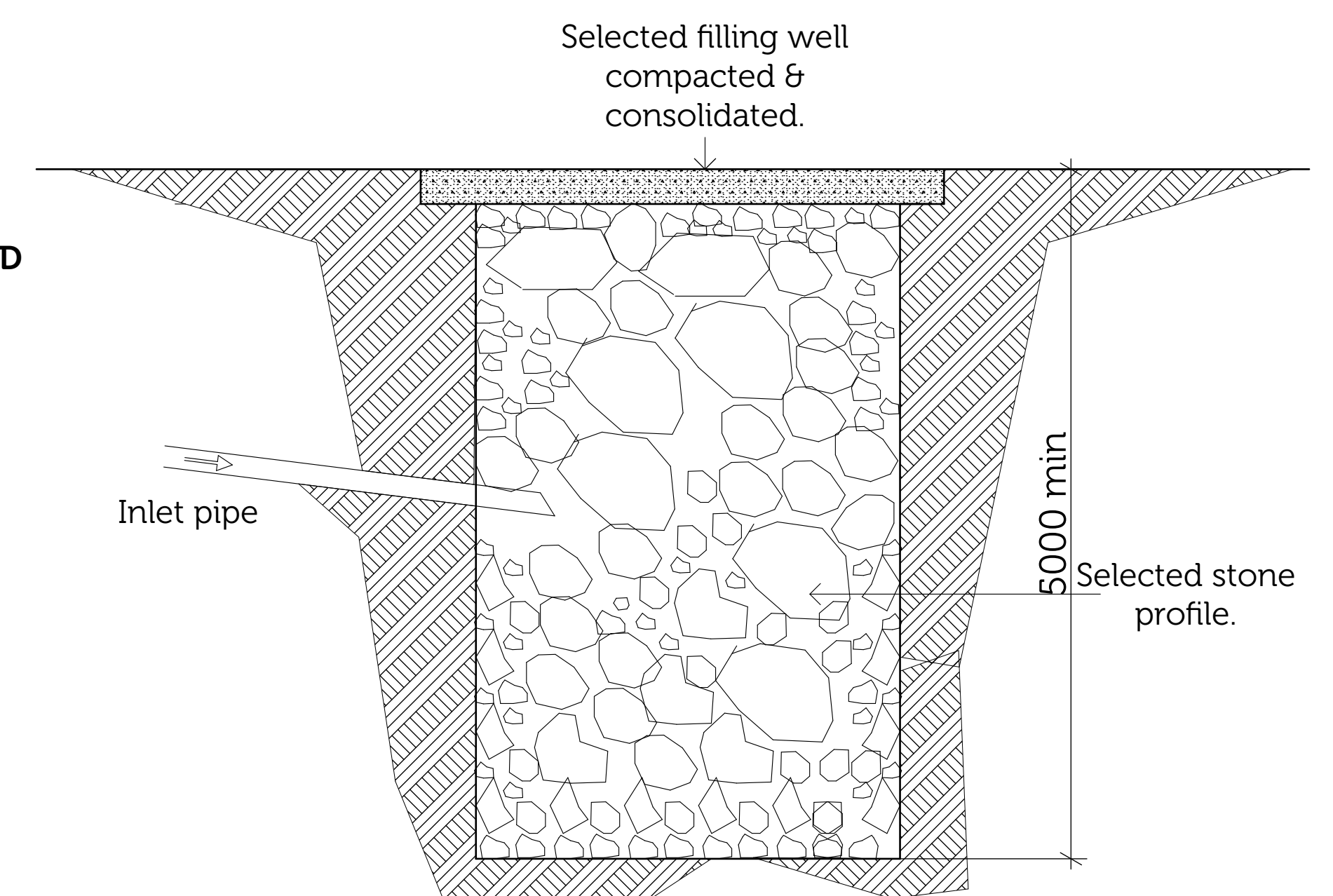
**SECTION A - A**  
**(Scale 1:50)**



**SECTION C - C (Scale 1:25)**



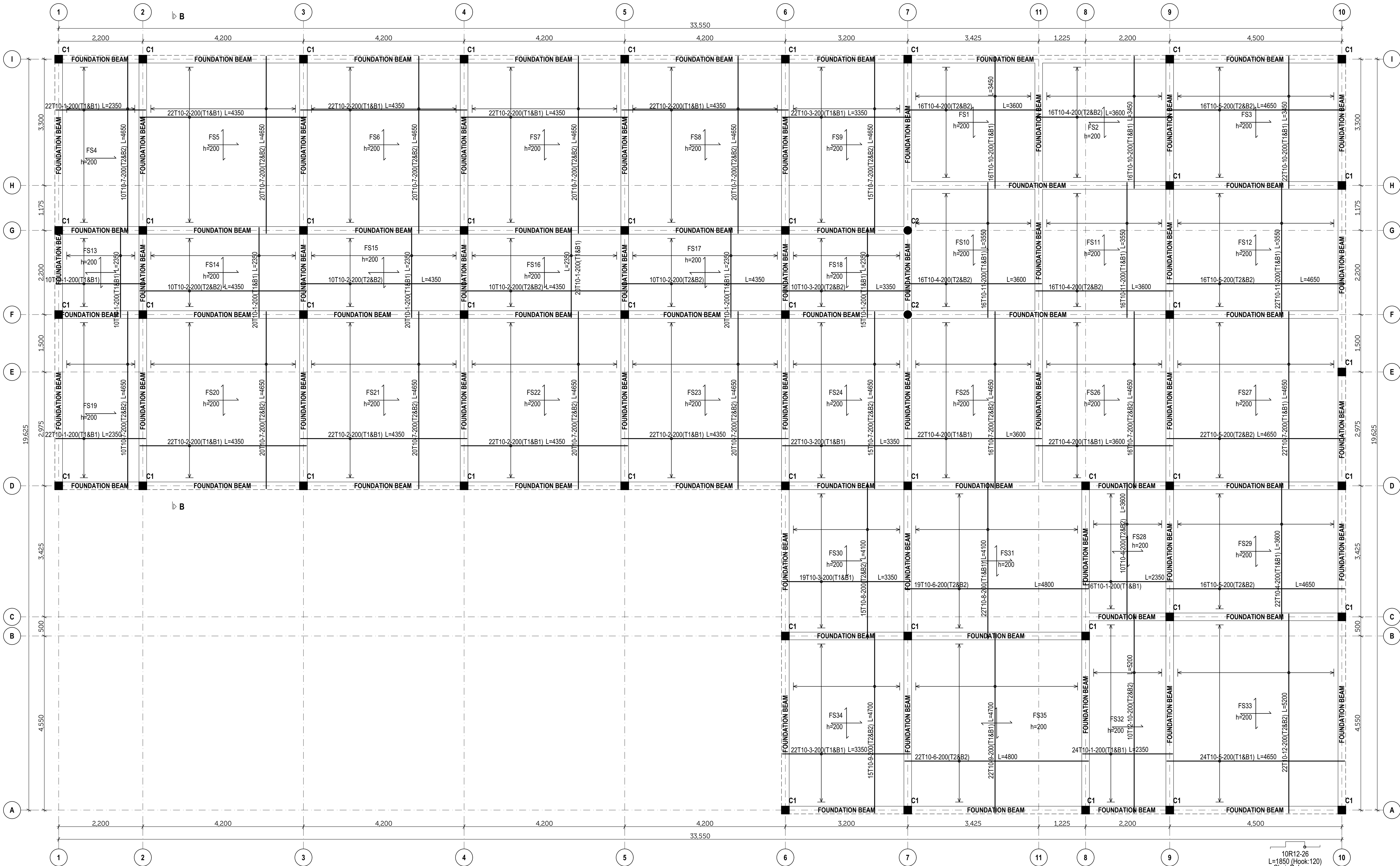
### CROSS SECTION THRU DRAIN PIPE TRENCH



**SECTION THRU SOAK PIT**


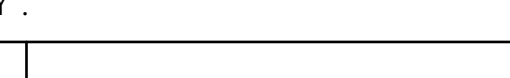




No. OF USERS	L	B	D	CAPACITY IN LITRES	PERCOLATION TRENCHES
6	1800	675	900	1112.5	7.5m
10	2250	675	900	1417.5	12.2m
15	2500	675	900	1561.5	14.4m
20	2800	675	900	1800.0	18.3m
25	3300	675	900	2083.5	30.5m
30	2500	900	1050	2358.0	36.6m
35	2550	900	1050	2502.0	42.6m
40	3000	900	1050	2847.5	48.7m
<b>250</b>	<b>7000</b>	<b>1200</b>	<b>1650</b>	<b>1633.5</b>	<b>128.0m</b>
275	7000	1200	1800	1785.5	134.0m
300	7600	1200	1800	1895.0	140.0m

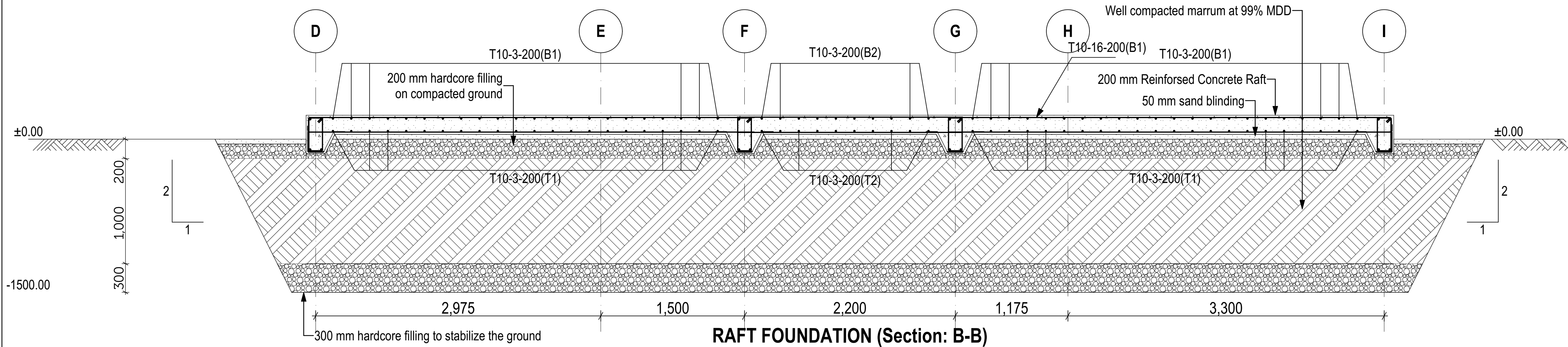




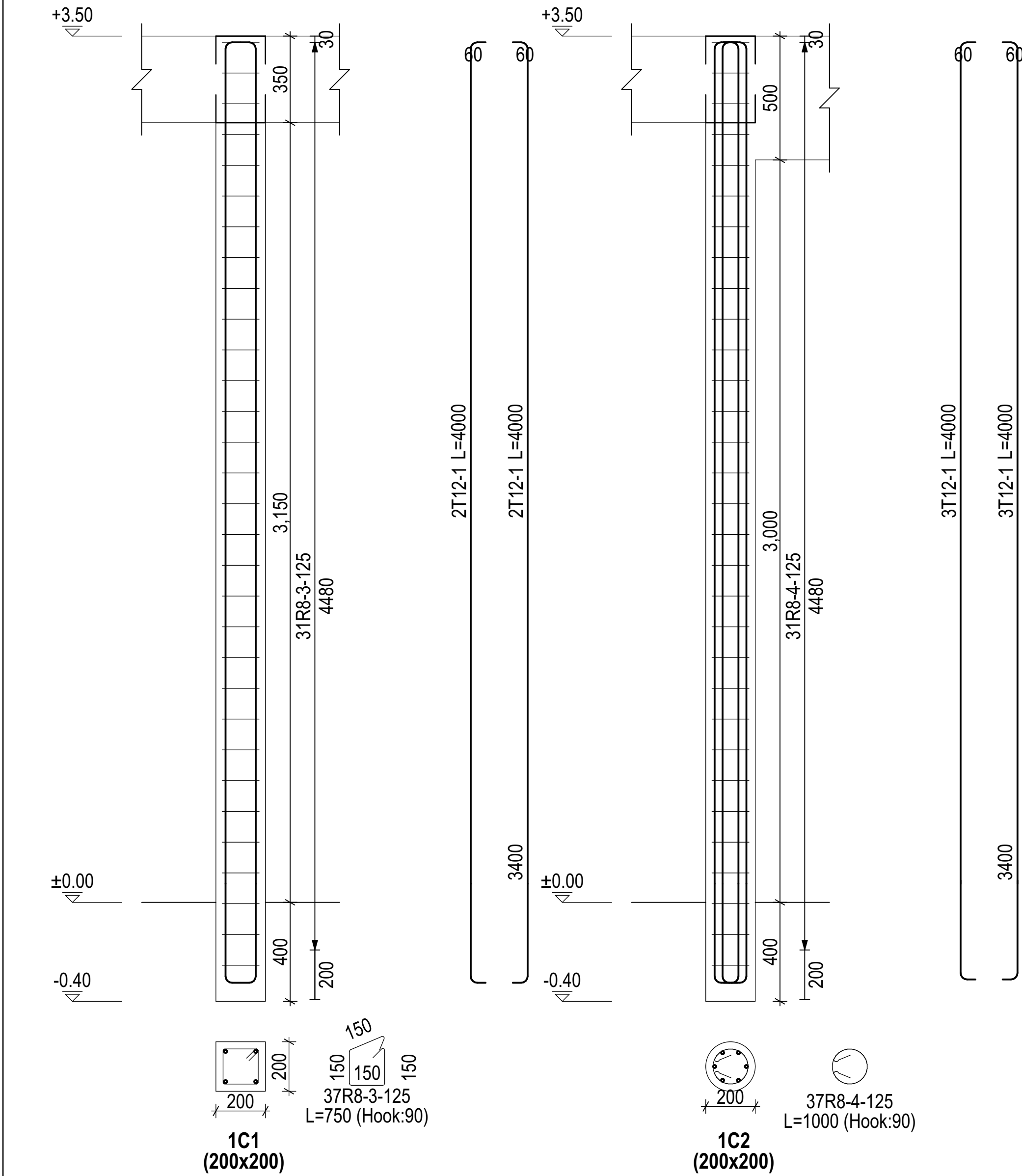
RAFT FOUNDATION LAYOUT

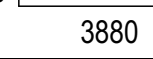
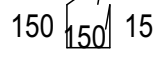

1:50, 1:25, 1:20

FUNDING AGENCY :		IMPLEMENTING PARTNER :	PROJECT :	CLIENT :		LEAD CONSULTANT	DRAWING :					
			USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL , KAABONG DISTRICT		Kaabong General Hospital (Kaabong District )	 PlantekLimited Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Lule Zone, Kabuusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	Schematic Drawings	Sheet No.	01/5	Scale	As shown	
							PC No.	489/01	Date	July 2024		
									Drawn	K. Ivan		
		UGANDA HEALTH ACTIVITY		Republic Of Uganda Kaabong GH						Str. Engineer	ENG. Anthony Kusemererwa	



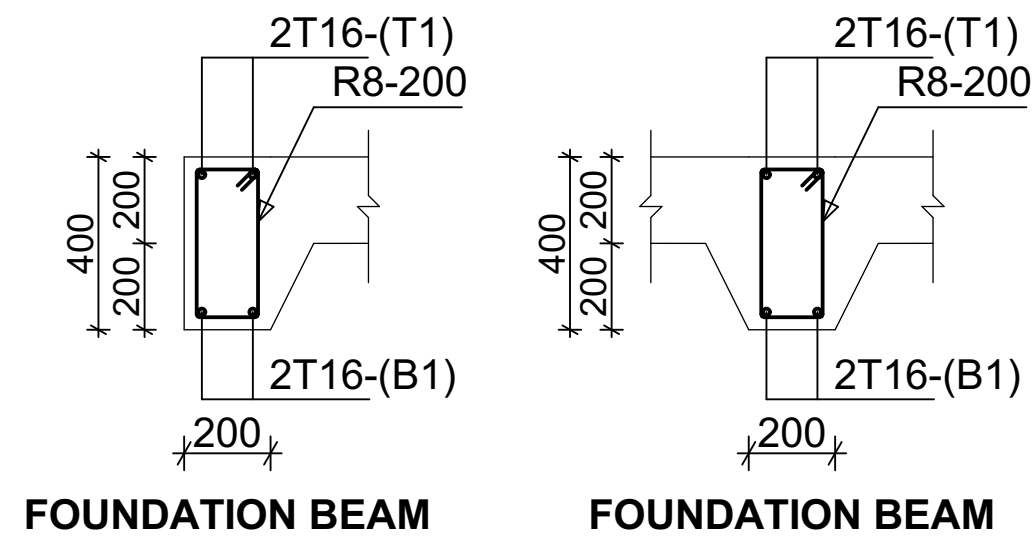
RAFT FOUNDATION (Section: B-B)



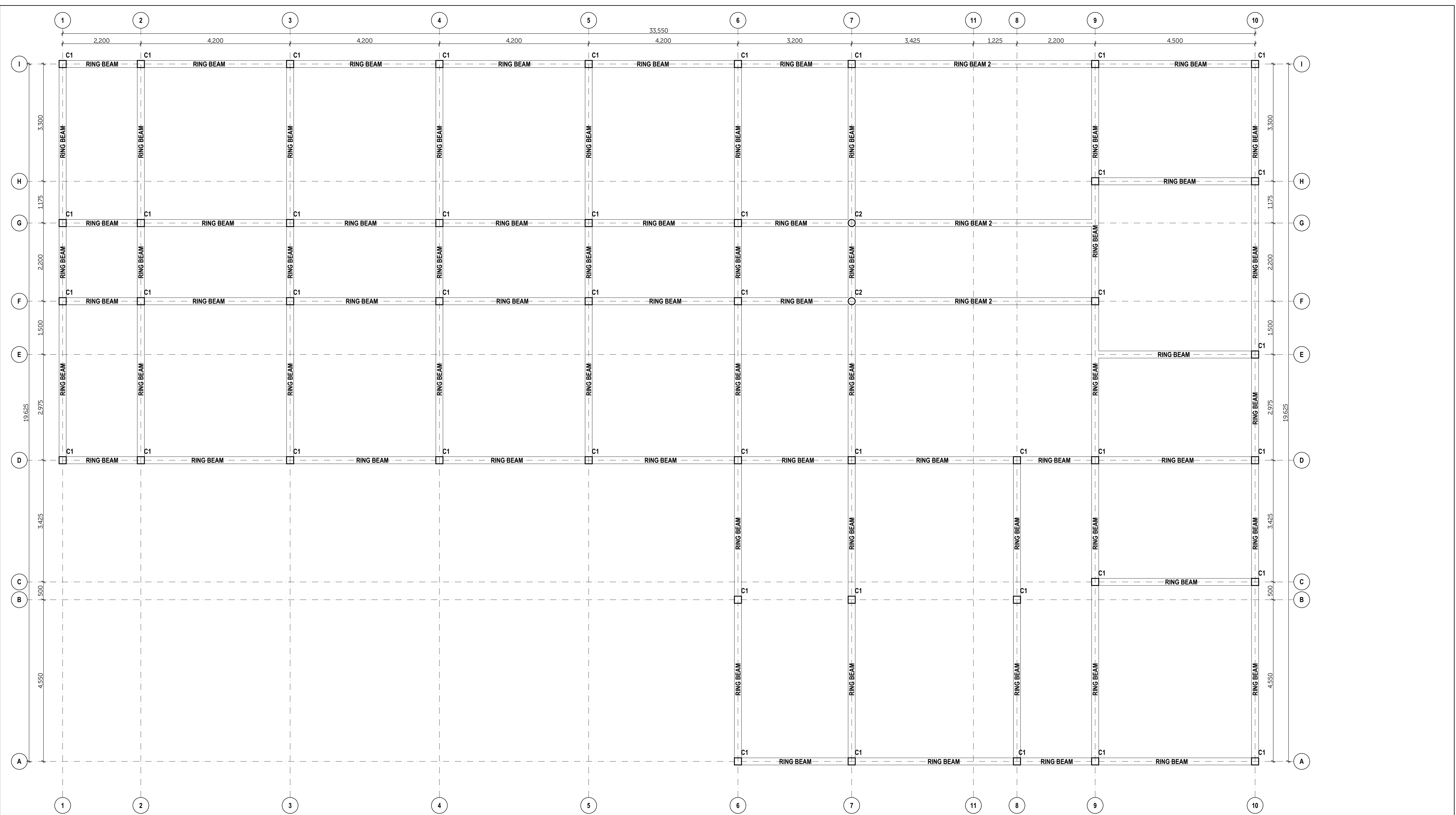
Column Quantity Table					
SIZE		UNIT WEIGHT (Kg/m)		LENGTH (m)	T.WEIGHT (Kg)
R8		0.40		1,108.25	443.3
T12		0.89		768.0	683.52
T.WEIGHT (Kg)					1,126.82
NO	SIZE	QUA	LENGTH (mm)	TOTAL	FORM
1	12	192	4000	768.00	60  60
3	8	1395	750	1046.25	 150
4	8	62	1000	62.00	 D=150

RAFT FOUNDATION STEEL QUANTITY TABLE					
NO	SIZE	QUA	LENGTH (mm)	FORM	TOTAL LENGTH (m)
1	10	398	2350	2350	935.3
2	10	432	4350	4350	1879.20
3	10	190	3350	3350	636.5
4	10	280	3600	3580	1008.00
5	10	188	4650	4650	874.20
6	10	82	4800	4800	393.60
7	10	528	4650	4630	2455.20
8	10	74	4100	4080	303.40
9	10	74	4700	4700	347.80
10	10	108	3450	3450	372.60
11	10	108	3550	3530	383.40
12	10	64	5200	5200	332.80
13	10	20	1850	400 400 140 140 500	37.00
TOTAL LENGTH (m)					9959.00
UNIT WEIGHT (Kg/m)					0.62
WEIGHT (Kg)					6,174.58
T.WEIGHT (Kg)					6,174.58

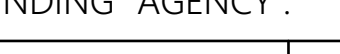
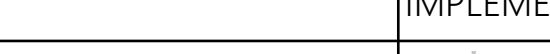
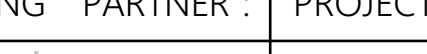
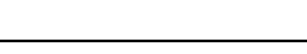

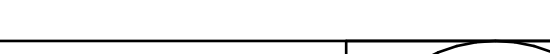
Foundation Beams Quantity Table					
SIZE	UNIT WEIGHT (Kg/m)	LENGTH (m)	T.WEIGHT (Kg)		
T8	0.40	1448.10	579.24		
T16	1.58	1,463.1	2,312.1		
T.WEIGHT (Kg)			2,891.34		
NO	SIZE	QUA	LENGTH (mm)	TOTAL	FORM
1	8	1609	900	1448.10	100 100 300 300 100
2	16	10	3050	30.50	2860 170
3	16	32	5400	172.80	5400
4	16	8	8950	71.60	8760 170
5	16	8	9200	73.60	9200
6	16	6	4400	26.40	4400
7	16	4	4500	18.00	4500
8	16	4	8050	32.20	8050
9	16	4	5850	23.40	5830
10	16	12	5000	60.00	4790 170
11	16	4	8400	33.60	8190 170
12	16	2	7700	15.40	7510 170
13	16	2	11450	22.90	11070 170
14	16	2	3700	7.40	3490 170
15	16	2	5750	11.50	5560 170
16	16	4	5850	23.40	5850
17	16	2	8450	16.90	8430
18	16	18	3400	61.20	3400
19	16	2	9500	19.00	9290 170
20	16	2	6800	13.60	6420 170
21	16	4	4050	16.20	3860 170
22	16	2	5150	10.30	4940 170
23	16	2	7950	15.90	7570 170
24	16	2	9400	18.80	9210 170
25	16	2	6050	12.10	5860 170
26	16	12	5350	64.20	5140 170
27	16	14	4950	69.30	4770 170
28	16	12	11250	135.00	10870 170
29	16	6	5400	32.40	5210 170
30	16	4	5150	20.60	5130
31	16	4	6950	27.80	6770 170
32	16	6	5700	34.20	5680
33	16	4	8350	33.40	8340
34	16	4	6050	24.20	5840 170
35	16	4	4600	18.40	4580
36	16	6	3800	22.80	3590 170
37	16	2	4400	8.80	4220 170
38	16	2	8550	17.10	8200 170
39	16	4	5900	23.60	5710 170
40	16	4	4650	18.60	4630
41	16	4	7200	28.80	7020 170
42	16	2	8700	17.40	8680
43	16	2	5450	10.90	5250 170
44	16	2	4200	8.40	4180
45	16	2	6100	12.20	6080
46	16	2	7950	15.90	7930
47	16	2	6200	12.40	6000 170

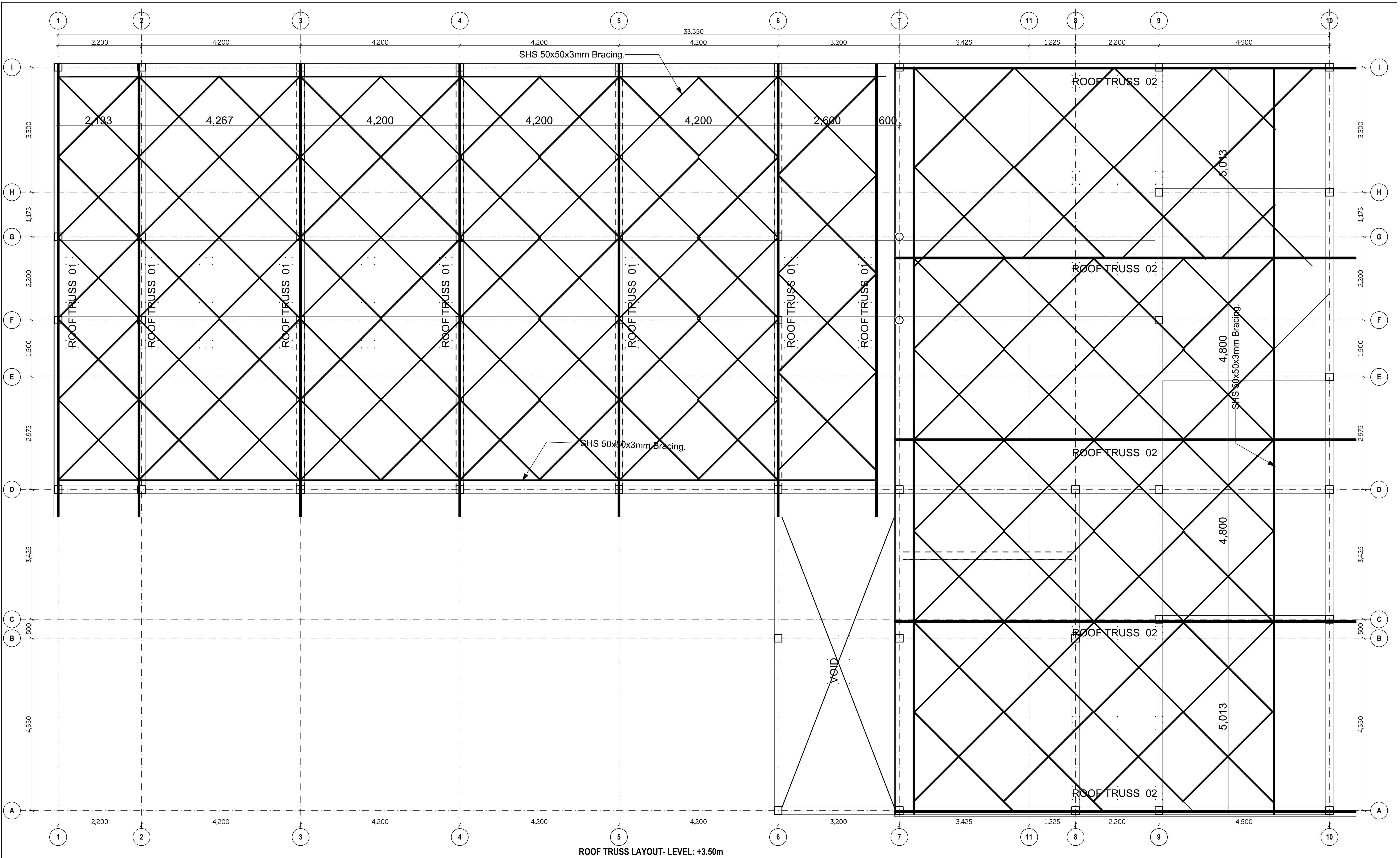


Ring Beam Quantity Table					
SIZE	UNIT WEIGHT (Kg/m)		LENGTH (m)	T.WEIGHT (Kg)	
R0	0.00		1.5	0.0	
R8	0.40		1,581.3	624.7	
T12	0.89		1,239.0	1,101.3	
T16	1.58		120.6	190.55	
			T.WEIGHT (Kg)	1,916.6	
NO	SIZE	QUA	LENGTH (mm)	TOTAL	FORM
1	12	8	10800	86.40	270 10510
2	12	8	9150	73.20	270 8840
3	12	4	12000	48.00	12000
4	12	4	800	3.20	800
5	12	12	9000	108.00	9000
6	12	2	8250	16.50	8230
7	12	4	7450	29.80	7450
8	12	2	9700	19.40	9390 270
9	12	6	5550	33.30	5240 270
10	8	1318	1050	1383.90	150 90 300 300 150 4630 270
11	12	10	5200	52.00	4570 270
12	12	10	5150	51.50	4570 270
13	12	10	11750	117.50	11190 270
14	12	10	11800	118.00	11250 270
15	12	4	8650	34.60	8380 270
16	12	4	7150	28.60	6850 270
17	12	4	7300	29.20	7280
18	12	4	8150	32.60	8140
19	12	4	6250	25.00	5940 270
20	12	4	5500	22.00	5210 270
21	12	2	11650	23.30	11360 270
22	12	2	7400	14.80	7100 270
23	12	2	7750	15.50	7730
24	12	2	9200	18.40	8910 270
25	12	2	6400	12.80	6110 270
26	12	4	4300	17.20	4300
27	12	2	5650	11.30	5630
28	12	1	4100	4.10	4060
29	12	3	8600	25.80	8290 270
30	12	2	5950	11.90	5670 270
31	12	2	4250	8.50	3940 270
32	12	2	4250	8.50	4230
33	16	4	9250	37.00	8820 420
34	16	4	7800	31.20	6950 420
35	12	2	7000	14.00	7000
36	8	34	1350	45.90	150 90 450 450 150 9660 270
37	12	2	10250	20.50	270 9290
38	12	2	9600	19.20	5970 270
39	12	2	6250	12.50	8520 270
40	12	2	9100	18.20	270 8580 270
41	12	2	9150	18.30	270 8580 270
42	12	2	3200	6.40	270 2890 270
43	12	2	5300	10.60	270 4990 270
44	16	2	9300	18.60	9300
45	16	2	8900	17.80	8890
46	16	2	8000	16.00	7970
47	12	2	6900	13.80	6610 270
48	12	2	2300	4.60	2020 270
49	8	101	1500	151.50	150 150 300 150 300 150 150
50	0	1	1450	1.45	150 150 300 150 300 150






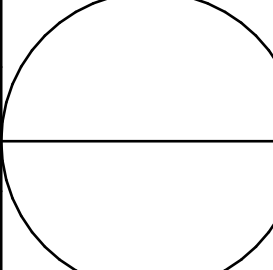


RING BEAM LAYOUT- LEVEL: +3.50m

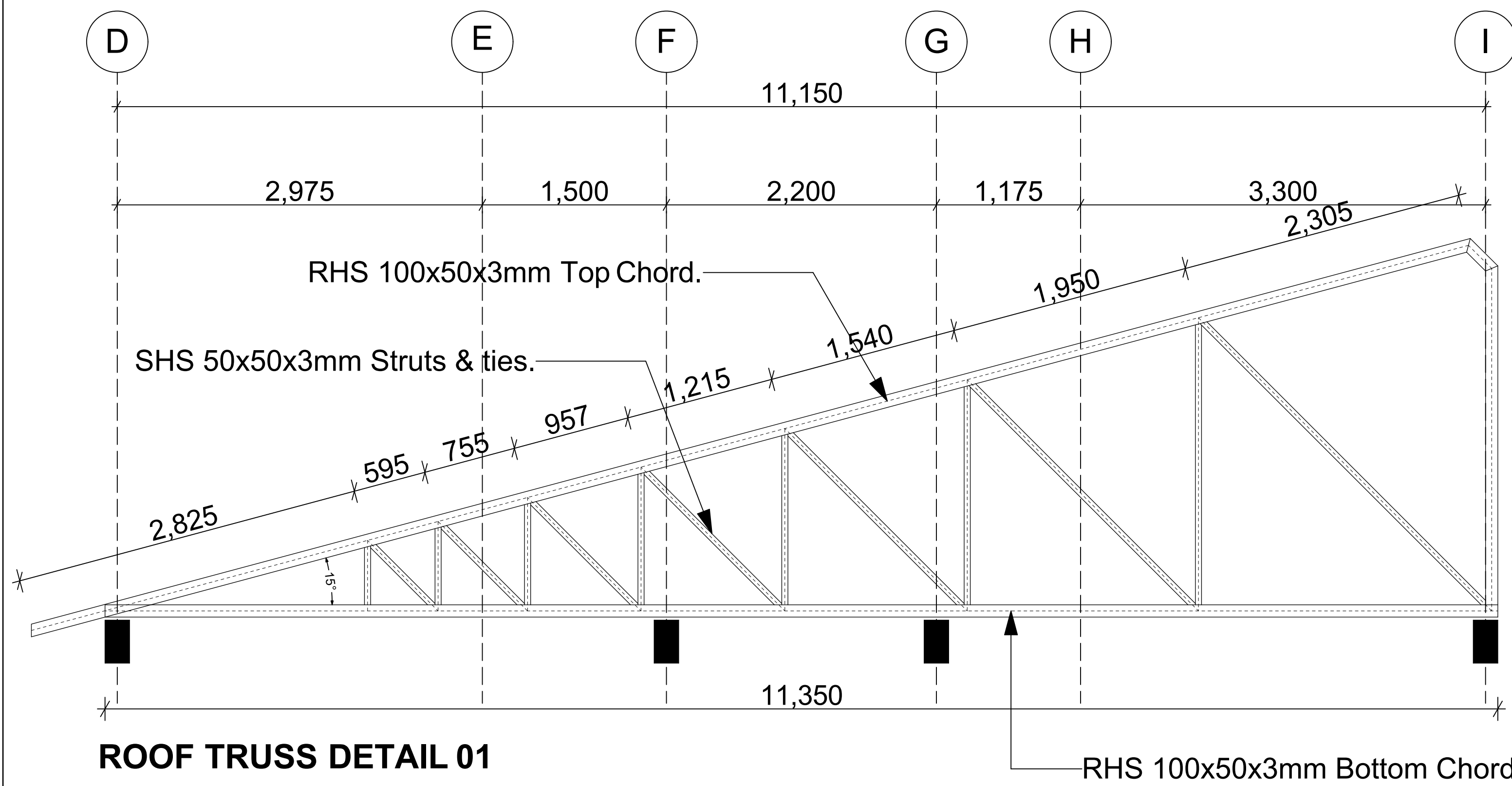
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			UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL , KAABONG DISTRICT		Republic Of Uganda Kaabong GH	Kaabong General Hospital (Kaabong District )	 PlantekLimited Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Lule Zone, Kabusuu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	Schematic Drawings	Sheet No.	03/5	Scale	As shown	
									PC No.	489/01	Date	July 2024		
											Str. Engineer	ENG. Anthony Kusemererwa		



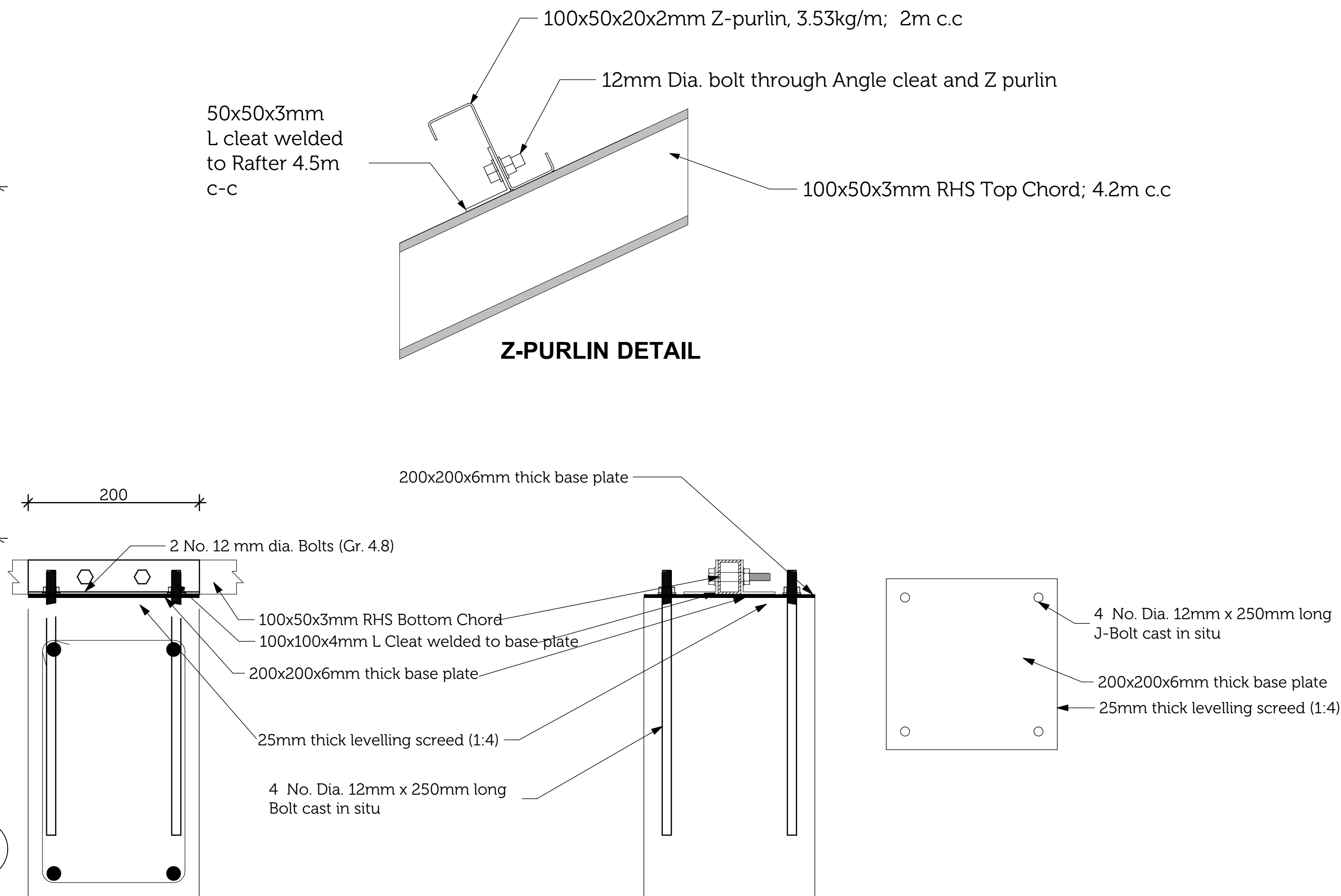
ROOF TRUSS LAYOUT- LEVEL: +3.50m

FUNDING AGENCY :		IMPLEMENTING PARTNER :	PROJECT :	CLIENT :		LEAD CONSULTANT	DRAWING :					
		 UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL , KAABONG DISTRICT	 Republic Of Uganda Kaabong GH	Kaabong General Hospital (Kaabong District )	 PlantekLimited Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Lule Zone, Kabusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	Schematic Drawings	Sheet No.	04/5	Scale	As shown	
									Date	July 2024		
									Drawn	K. Ivan		
								PC No.	489/01	Str. Engineer	ENG. Anthony Kusemererwa	

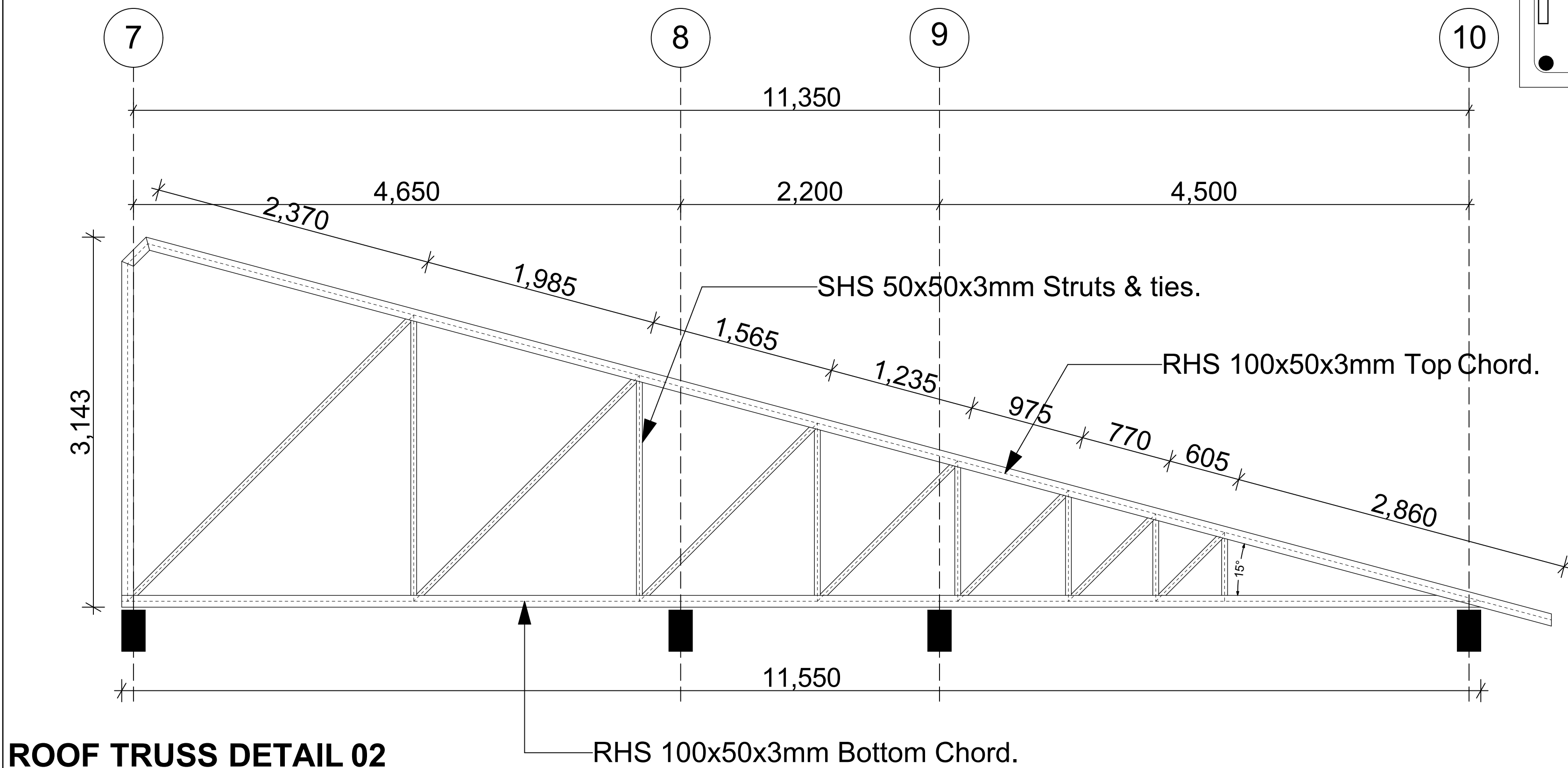










ROOF TRUSS DETAIL 01

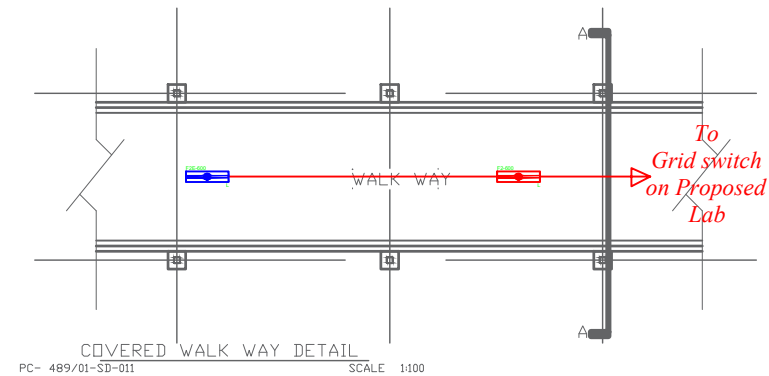
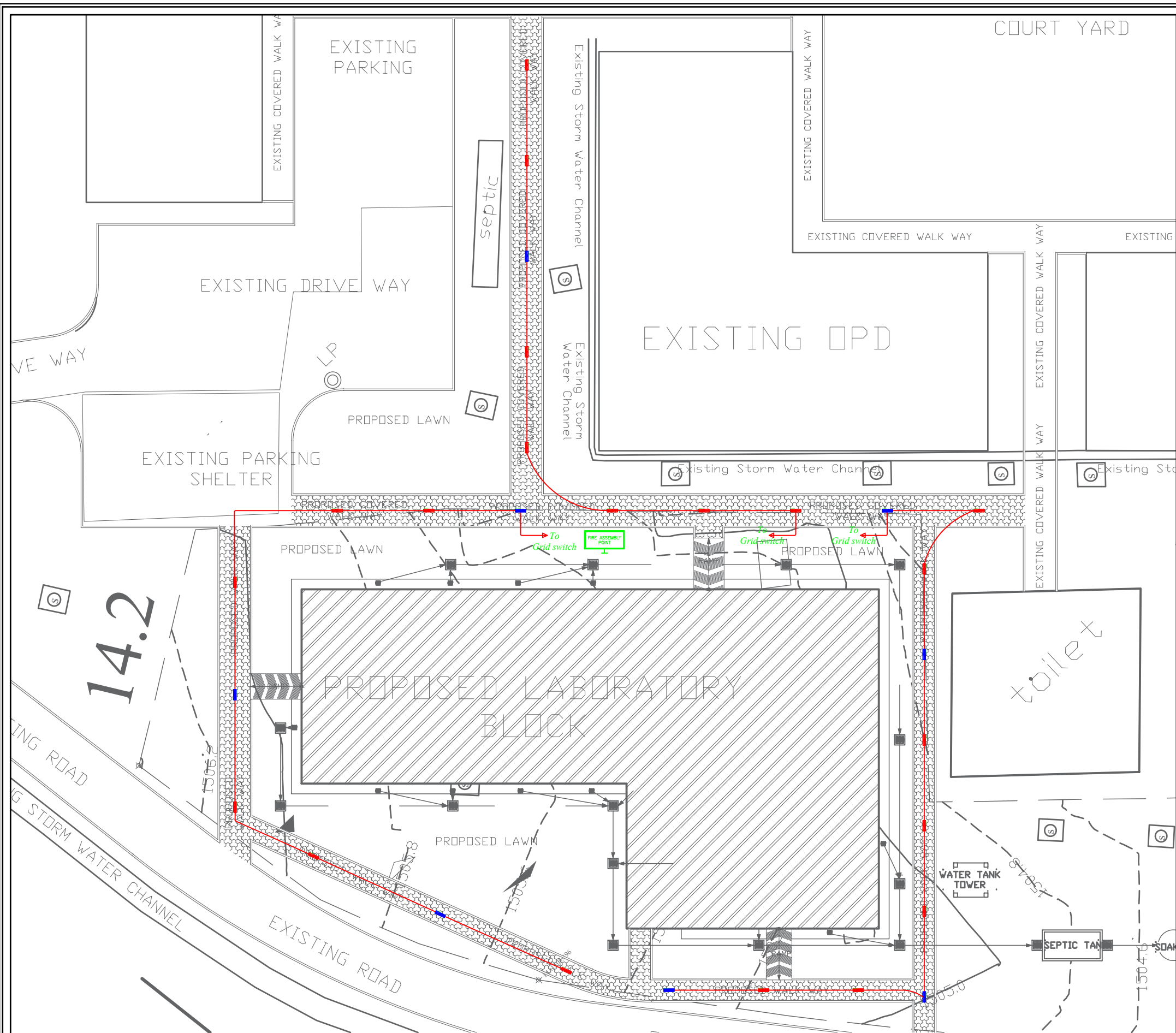


CONNECTION DETAILS









ROOF TRUSS DETAIL 02

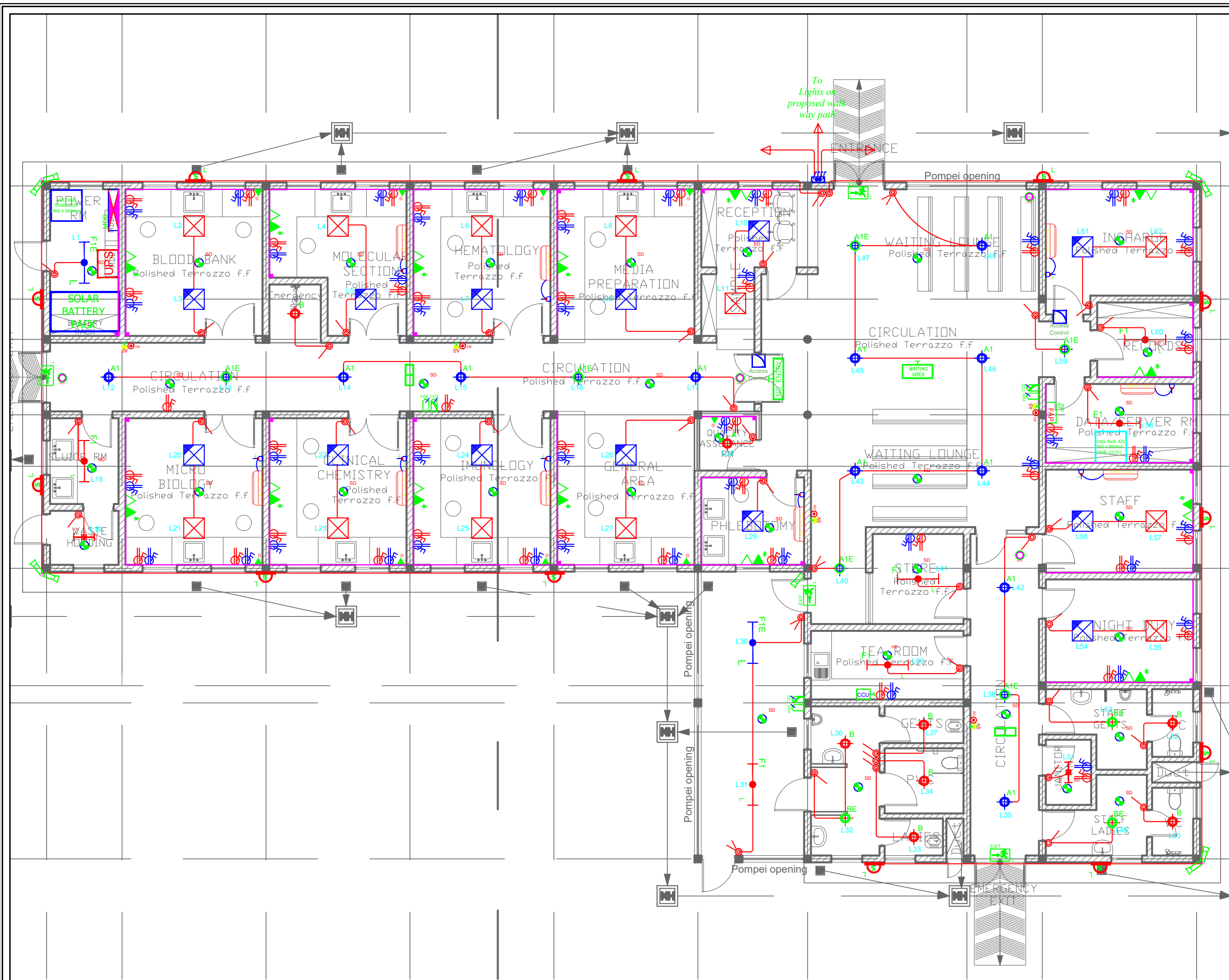
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		 UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL , KAABONG DISTRICT	 Republic Of Uganda Kaabong GH	Kaabong General Hospital (Kaabong District )	 PlantekLimited Building Spaces. For Life Plot 171, Block 17, Nayiga Road , Lule Zone, Kabususu , Rubaga . P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	Schematic Drawings	Sheet No.	05/5	Scale	As shown	
										Date	July 2024	
									PC No.	489/01	Drawn Str. Engineer	



QTY	SYMBOL	DESCRIPTION
20		10W,600mm LED surface Fluorescent display light as Thorn aquaforce pro or equal equivalent
8		10W,600mm Emergency LED surface Fluorescent display light as Thorn aquaforce pro or equal equivalent

FUNDING AGENCY:		IMPLEMENTING PARTNER:		PROJECT:		CLIENT:		LEAD CONSULTANT		DRAWING:						
<div></div>		<div> UGANDA HEALTH ACTIVITY</div>		USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT		<div> Republic Of Uganda Kaabong GH</div>		<div> PlantekLimited Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Lule Zone, Kabusu, Rubaga. P. O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.up</div>		<div>ELECTRICAL INSTALLATION DESIGN:</div> <div>PROPOSED WALKWAY LIGHTING</div>		Sheet No.	01/05	Scale:	NTS	
										PC No.	489/01	Date:	July 2024			
												Drawn:	JC			
												Checked:	ENG. SSS			

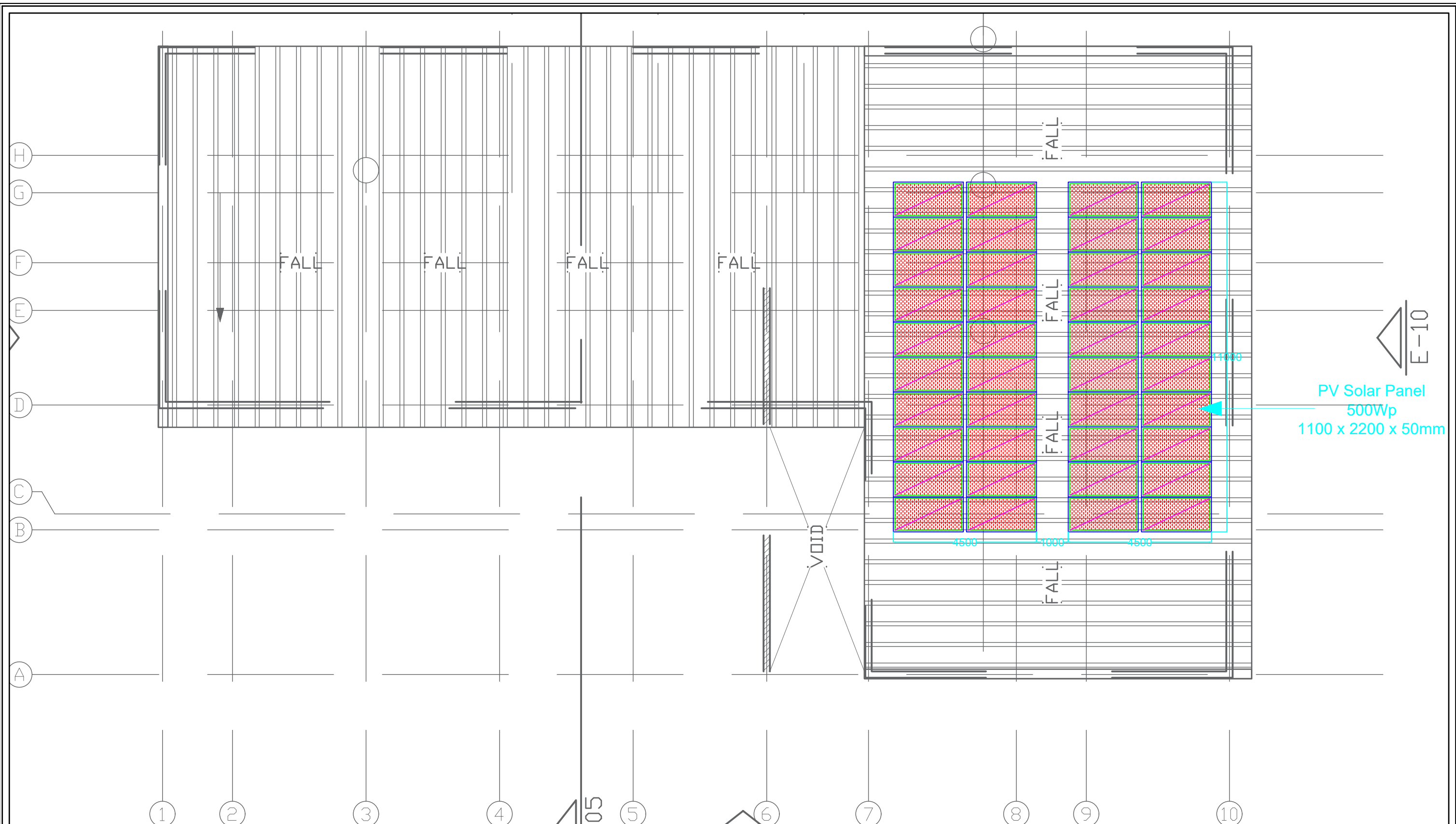




QTY	SYMBOL	DESCRIPTION
11		150mm Diameter 15W recessed ceiling lights (Raw power)
6		150mm Diameter 15W recessed ceiling lights (UPS)
1		150mm Diameter 20W LED recessed ceiling lights Raw power
0		150mm Diameter 20W LED recessed ceiling lights UPS
7		12W LED 150mm Ø Recessed down lighter with DALI Interface to IP44
3		12W LED 150mm Ø Recessed down lighter with DALI Interface and 3Hr Emergency Battery to IP44
12		600 x600 mm 40W LED panel light (Raw Power)
13		600 x600 mm 40W LED panel light Emergency
12		60W LED Bulk head
2		T8 1x20W 600mm single surface mounted bare batten LED luminaire
6		20W,1200mm LED single surface Fluorescent display light
2		20W,1200mm Emergency LED single surface Fluorescent display light
14		Twin RJ 45(telephone point and data point combined)
9		Data point
45		2 No 13 A switch socket Raw Power
43		2 No 13 A switch socket UPS
31		1 Gang 1 way switch
1		2 Gang 1 way switch
4		1 Gang 2 way switch
1		3 Gang 1 way switch
1		Grid switch
1		Cooker control unit
4		Dome shaped camera
9		Day / Night CCTV camera
2		Access control
9		Split AC unit
31		Smoke detector
1		Heat detector
5		Alarm sounder
5		Break glass unit
1		Fire Alarm panel
		PVC Trunking
6		Fire extinguishers
2		Emergency direction light
4		Ultra Slim white aluminium bodied , double sided view, 3hr maintained LED exit sign with engraved flame retard and acrylic sign blade, for suspended use.
1		Emergency Instruction light
1		Emergency Instruction light
1		Main distribution board (1200 x 300mm)
0		Consumer unit
1		Data rack Cabinet (900 x 900mm)
9		Dipole switches for Split AC units
1		Uninterruptible Power supply (600 x 800mm)
1		Voltage Stabilizer (900 x 900mm)

FUNDING AGENCY:		IMPLEMENTING PARTNER:		PROJECT:		CLIENT:		LEAD CONSULTANT		DRAWING:		Sheet No.		02/05		Scale:		NTS				
				USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT				Kaabong General Hospital (Kaabong District)		 Plantek Limited Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Lule Zone, Kabusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug		ELECTRICAL INSTALLATION DESIGN:		PC No.		489/01		Date:			July 2024	
		UGANDA HEALTH ACTIVITY				Republic Of Uganda Kaabong GH						GROUND FLOOR PLAN: LIGHTING & SMALL POWER				Drawn:		JC				
																Checked:		ENG. SSS				











PV Solar Panel  
500Wp  
1100 x 2200 x 50mm

# ROOF COVERINGS LAYOUT PLAN

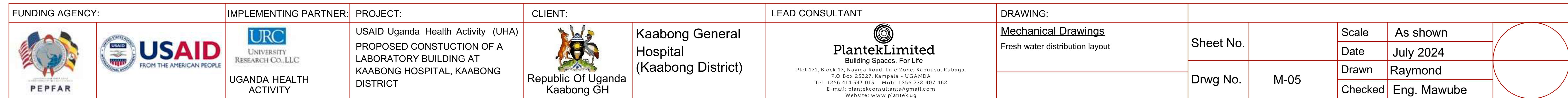
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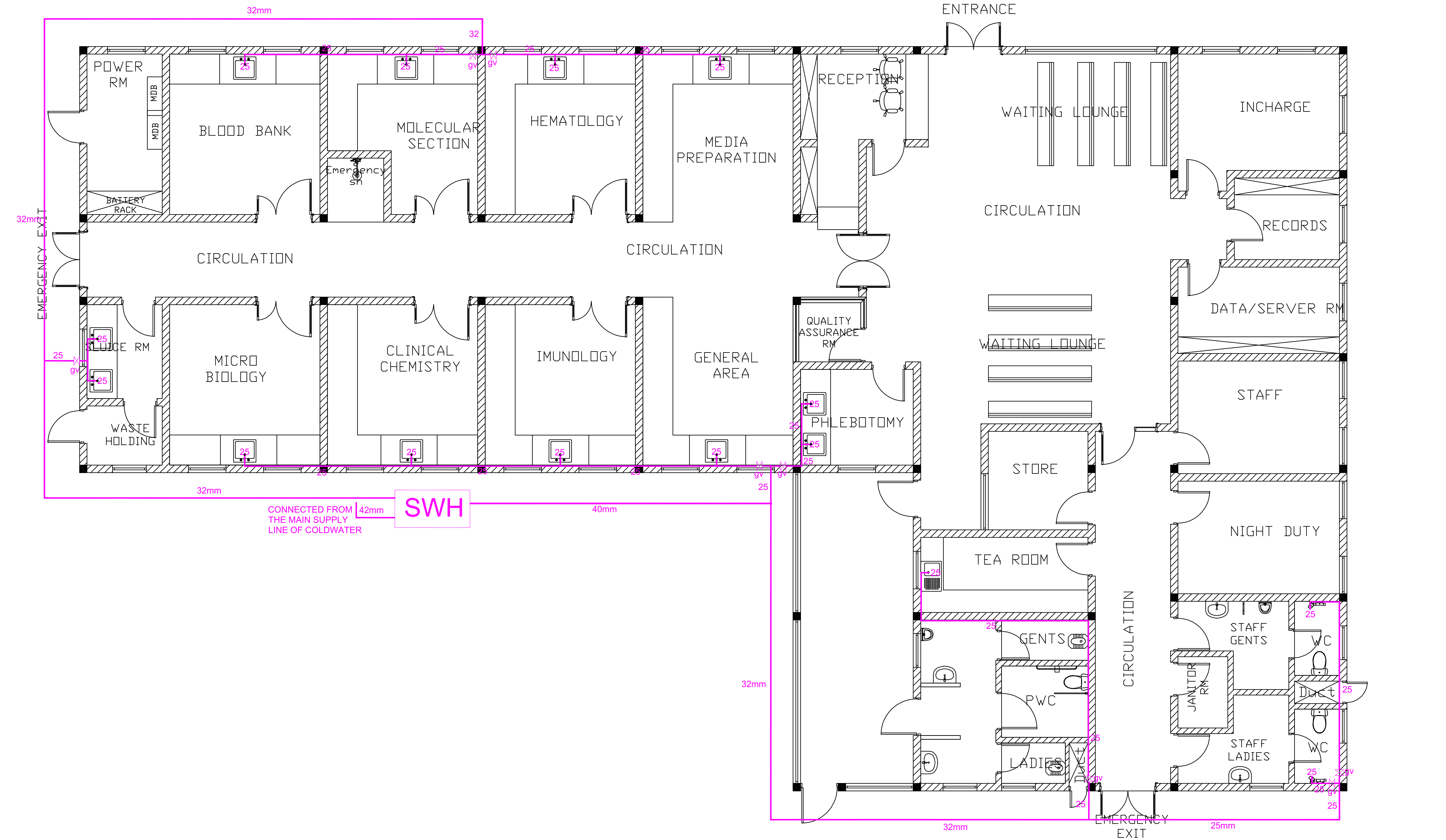
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		 UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT	 Republic Of Uganda Kaabong GH	 PlantekLimited Building Spaces. For Life  Plot 171, Block 17, Nayiga Road, Lule Zone, Kabusu, Rubaga. P. O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	ELECTRICAL INSTALLATION DESIGN:	Sheet No.	04/05	Scale:	NTS	
						ROOF PLAN: SOLAR PANEL LAYOUT	PC No.	489/01	Date:	July 2024	
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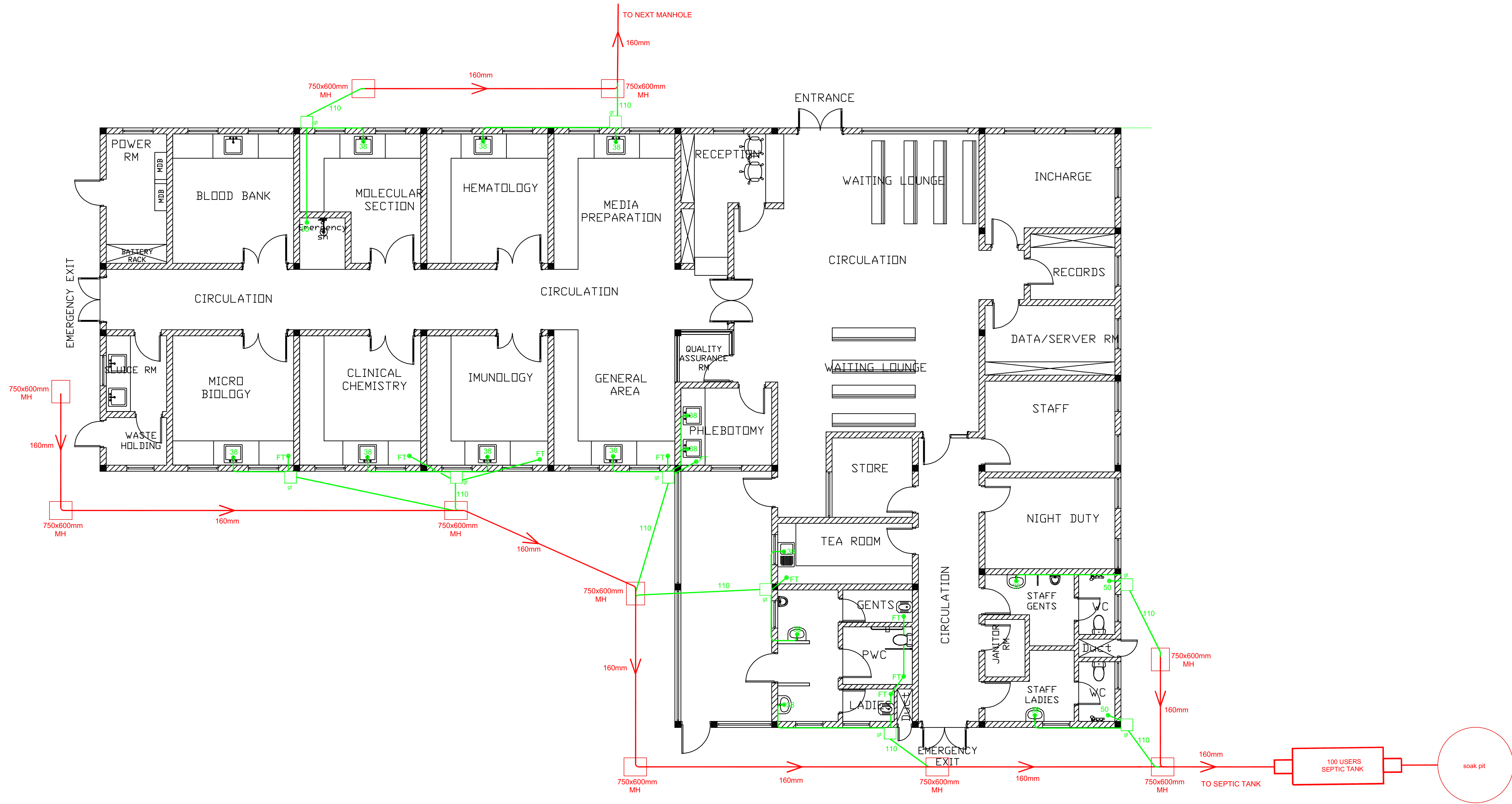








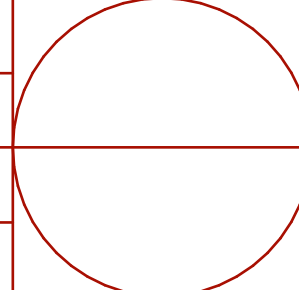


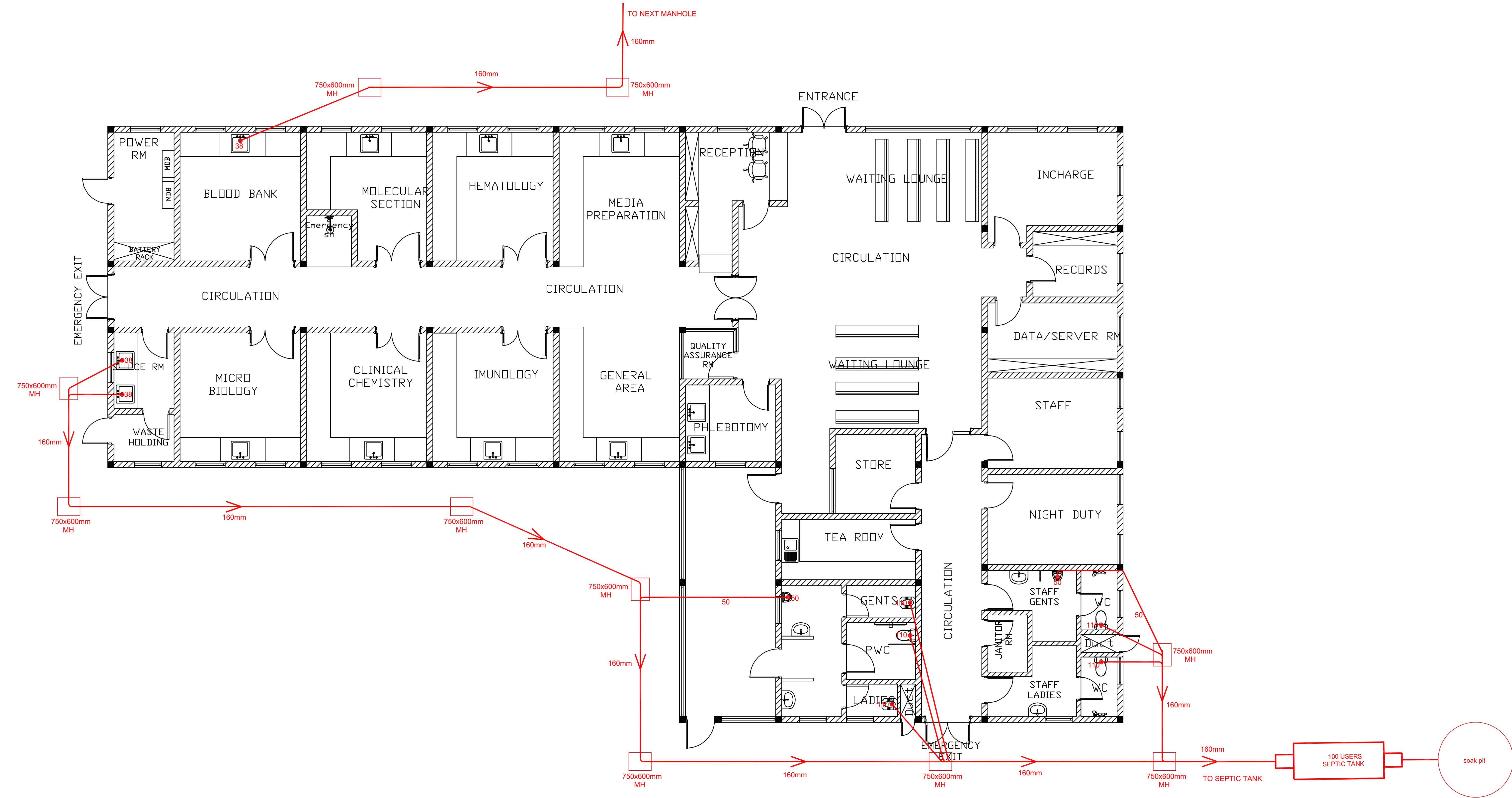








FUNDING AGENCY:		IMPLEMENTING PARTNER:		PROJECT:		CLIENT:		LEAD CONSULTANT		DRAWING:					
										Mechanical Drawings		Sheet No.		Scale	As shown
										Hot water distribution layout				Date	July 2024
												Drwg No.	M-05	Drawn	Raymond
														Checked	Eng. Mawube



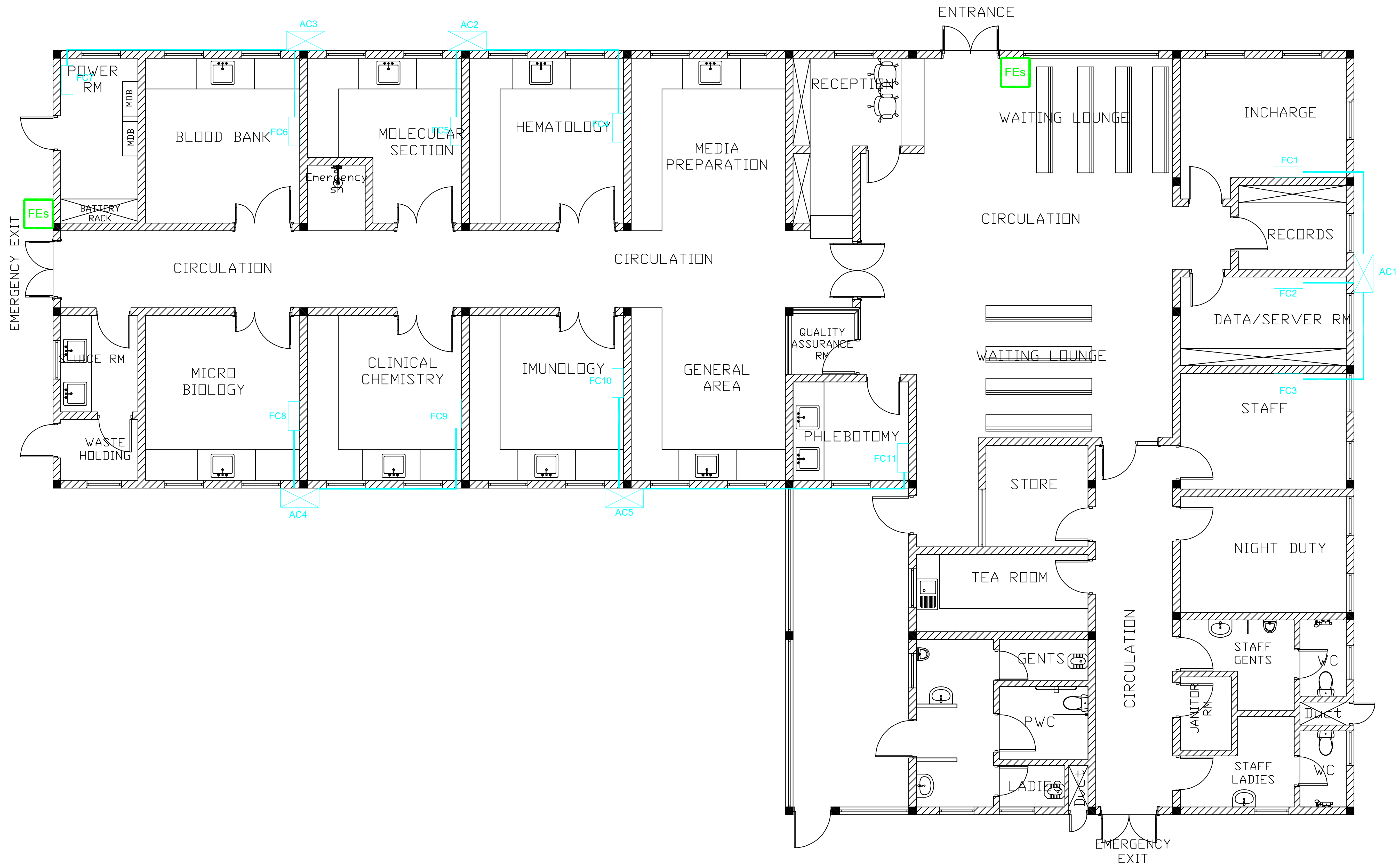








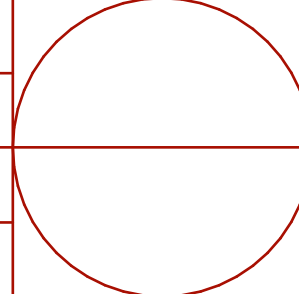
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			UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT		Republic Of Uganda Kaabong GH	 <b>Plantek Limited</b> Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Luile Zone, Kabuusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	 <b>Plantek Limited</b> Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Luile Zone, Kabuusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	<u>Mechanical Drawings</u> Waste water distribution layout	Sheet No.		Scale	As shown	
										Drwg No.	M-05	Date	July 2024	
												Drawn	Raymond	
												Checked	Eng. Mawube	



FUNDING AGENCY:		IMPLEMENTING PARTNER:	PROJECT:	CLIENT:		LEAD CONSULTANT	DRAWING:						
			UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT		Kaabong General Hospital (Kaabong District)	 <b>Plantek Limited</b> Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Luile Zone, Kabuusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013 Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	<u>Mechanical Drawings</u> Foul water drainage layout	Sheet No.		Scale	As shown	
								Drwg No.	M-05	Date	July 2024		
										Drawn	Raymond		
										Checked	Eng. Mawube		





FUNDING AGENCY:		IMPLEMENTING PARTNER:		PROJECT:		CLIENT:		LEAD CONSULTANT		DRAWING:						
			UGANDA HEALTH ACTIVITY	USAID Uganda Health Activity (UHA) PROPOSED CONSTRUCTION OF A LABORATORY BUILDING AT KAABONG HOSPITAL, KAABONG DISTRICT		Republic Of Uganda Kaabong GH	Kaabong General Hospital (Kaabong District)	 <b>Plantek Limited</b> Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Luile Zone, Kabusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013   Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	 <b>Plantek Limited</b> Building Spaces. For Life Plot 171, Block 17, Nayiga Road, Luile Zone, Kabusu, Rubaga. P.O Box 25327, Kampala - UGANDA Tel: +256 414 343 013   Mob: +256 772 407 462 E-mail: plantekconsultants@gmail.com Website: www.plantek.ug	<u>Mechanical Drawings</u> Air Conditioning and fire protection systems Unit		Sheet No.		Scale	As shown	
												Drwg No.	M-05	Date	July 2024	
														Drawn	Raymond	
													Checked	Eng. Mawube		