

REPUBLIC OF KENYA

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING, AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

Tender Document

for

PROPOSED CONSTRUCTION OF SOCIAL HOUSING AND ASSOCIATED INFRASTRUCTURE IN KASARANI CONSTITUENCY, NAIROBI COUNTY – LOT 4

TENDER NO.

MLPWHUD/SDHUD/SUD/385/2023-2024 - LOT 4

Ministry of Lands, Public Works, Housing, and Urban Development,
State Department for Housing and Urban Development,
P.O Box 30119-00100
Nairobi, Kenya
Tel: +254-020-2713833

Closing Date: Friday, 12th July, 2024 at 9:00.am.

PROJECT DATA SHEET

PROJECT: PROPOSED CONSTRUCTION OF SOCIAL HOUSING AND ASSOCIATED INFRASTRUCTURE IN KASARANI CONSTITUENCY, NAIROBI COUNTY – LOT 4

Item	DETAILS OF SITE	PROJECT PARTICULARS
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1	Tender No	MLPWHUD/SDHUD/AHP/385/2023-2024 - LOT 4
2	Site location	Kasarani Constituency, Nairobi County
4	Land Size	Approximately 5 Acres
5	Scope	14 Blocks (2534 units), distributed as follows
		1 Room Social Housing: 644 Units
		2 Room Social Housing: 1,260 Units 3 Room Social Housing: 630 Units
		oso emis
		14 Blocks (2534 units), distributed as follows
		Note: Bidders are notified that the Procuring Entity may make
		changes to the scope of works during evaluation of tenders
6	Amenities	None
7	External works	Roads & Parking works, Boundary wall, Landscaping
8	Built area	102,458.00sm

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TENDER DOCUMENTS FOR <u>PROCUREMENT OF WORKS (BUILDING AND ASSOCIATED</u> CIVIL ENGINEERING WORKS)

1) NAME AND CONTACT ADDRESSES OF PROCURING ENTITY

Ministry of Lands, Public Works, Housing, and Urban Development,
State Department for Housing and Urban Development,
P.O Box 30119-00100
Nairobi, Kenya

Tel: +254-020-2713833

- 2) Invitation to Tender (ITT) No: MLPWHUD/SDHUD/AHP /385/2023-2024 LOT 4
- 3) Tender Name: PROPOSED CONSTRUCTION OF SOCIAL HOUSING AND ASSOCIATED INFRASTRUCTURE IN KASARANI CONSTITUENCY, NAIROBI COUNTY LOT 4

INVITATION TO TENDER

PROCURING ENTITY: STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

CONTRACT NAME AND DESCRIPTION: PROPOSED CONSTRUCTION OF SOCIAL HOUSING AND ASSOCIATED INFRASTRUCTURE IN KASARANI CONSTITUENCY, NAIROBI COUNTY – LOT 4

- 4. The STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT invites sealed tenders for the construction of PROPOSED CONSTRUCTION OF SOCIAL HOUSING AND ASSOCIATED INFRASTRUCTURE IN KASARANI CONSTITUENCY, NAIROBI COUNTY LOT 4
- 2. Tendering will be conducted under open competitive method (National) using a standardized tender document. Tendering is open to Contractors Registered in the appropriate Category for Builders Works
- 3. The tender is open to those who meet the requirements of eligibility as contained in this invitation and the tender documents
- 4. Qualified and interested tenderers may obtain further information and inspect the Tender Documents during office hours at the address given below.
- 5. A complete set of tender documents may be obtained, downloaded and viewed by interested tenderers for free from the website www.housingandurban.go.ke. Tenderers who download the tender document must forward their particulars immediately to the Principal Secretary, State Department for Housing and Urban Development to facilitate any further clarifications or addendum that may be issued. Further clarifications and Addendum shall be posted at www.housingandurban.go.ke.
- Tender documents be viewed and downloaded for free from the website 6. may https://housingandurban.go.ke/tenders/. Tenderers who download the tender document must forward their particulars immediately to the Principal Secretary, State Department for Housing and Urban **Development**, *procurement*@*housingandurban.go.ke* to facilitate any further clarification or addendum that may be issued. Further clarifications and Addendum shall be posted at www.housingandurban.go.ke.
- 7. Tenders shall be quoted be in Kenya Shillings and shall include all taxes. Tenders shall remain valid for **120 days** from the date of opening of tenders.
- 8. All Tenders must be accompanied by a by a **Tender Security as specified in the Tender Data Sheet Clause ITT 19.1**.
- 9. The Tenderer shall chronologically serialize all pages of the tender documents submitted in the numerical format i.e., 1, 2, 3, 4 including the cover page. Tender Document must be tape bound and not Spiral bound. Spiral bound documents shall be automatically disqualified. In addition, bidders MUST submit a soft copy in PDF format during bid opening which is a replica of the original bid document. This instruction is issued pursuant to Section 74(1)(j) of the Public Procurement and Assets Disposal Act, 2015.
- 10. Completed tenders must be delivered to the address below on or before, Friday, 12th July, 2024 at 9:00am. (East African Time). Electronic Tenders will not be permitted.
- 11. Tenders will be opened immediately after the deadline date and time specified above or any deadline date and times specified later. Tenders will be publicly opened in the presence of the Tenderers' designated representatives who choose to attend at the address below.
- 12. Late tenders will be rejected.
- 13. The addresses referred to above are:

A. Address for obtaining further information

State Department for Housing and Urban Development Room 606 B, 6th Floor, Ardhi House, 1st Ngong Avenue P.O. Box 30119 -00100 NAIROBI.

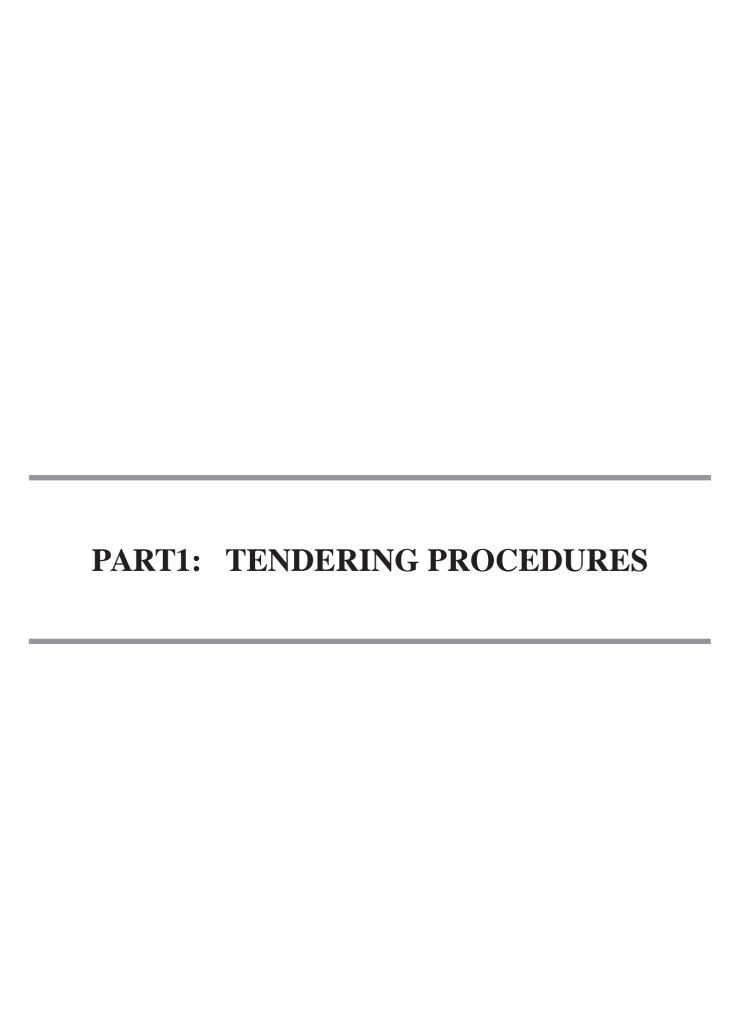
B. Address for Submission of Tenders.

State Department for Housing and Urban Development Tender Box, 6th Floor, Ardhi House, 1st Ngong Avenue P.O. Box 30119 -00100 NAIROBI.

C. Address for Opening of Tenders.

State Department for Housing and Urban Development Boardroom, 6th Floor, Ardhi House, 1st Ngong Avenue P.O. Box 30119 -00100 NAIROBI.

Head, Supply Chain Management Services For: PRINCIPAL SECRETARY



SECTION I - INSTRUCTIONS TO TENDERERS

A GENERAL PROVISIONS

1.0 Scope of tender

1.1 The Procuring Entity as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The name, identification, and number of lots (contracts) of this Tender Document are specified in the TDS.

12 Throughout this tendering document:

- a) The term "inwriting" means communicated in written form (e.g. by mail, e-mail, fax, including if specified in the TDS, distributed or received through the electronic-procurement system used by the Procuring Entity) with proof of receipt;
- b) if the context so requires, "singular" means "plural" and vice versa.
- c) "Day" means calendar day, unless otherwise specified as "Business Day". A Business Day is any day that is an official working day of the Procuring Entity. It excludes official public holidays.

20 Fraud and corruption

- 21 The Procuring Entity requires compliance with the provisions of the Public Procurement and Asset Disposal Act, 2015, Section 62 "Declaration not to engage in corruption". The tender submitted by a person shall include a declaration that the person shall not engage in any corrupt or fraudulent practice and a declaration that the person or his or her sub-contractors are not debarred from participating in public procurement proceedings.
- The Procuring Entity requires compliance with the provisions of the Competition Act 2010, regarding collusive practices in contracting. Any tenderer found to have engaged in collusive conduct shall be disqualified and criminal and/or civil sanctions may be imposed. To this effect, Tenders shall be required to complete and sign the "Certificate of Independent Tender Determination" annexed to the Form of Tender.
- 23 Tenderers shall permit and shall cause their agents (whether declared or not), subcontractors, subconsultants, service providers, suppliers, and their personnel, to permit the Procuring Entity to inspect all accounts, records and other documents relating to any initial selection process, pre-qualification process, tender submission, proposal submission, and contract performance (in the case of award), and to have them audited by auditors appointed by the Procuring Entity.
- 24 Unfair Competitive Advantage Fairness and transparency in the tender process require that the firms or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to this tender. To that end, the Procuring Entity shall indicate in the **Data**Sheet and make available to all the firms together with this tender document all in formation that would in that respect give such firm any unfair competitive advantage over competing firms.

3.0 Eligible tenderers

- A Tenderer may be a firm that is a private entity, a state-owned enterprise or institution subject to ITT 3.8, or an individual or any combination of such entities in the form of a joint venture (JV) under an existing agree mentor with the intent to enter in to such an agreement supported by a letter of intent. In the case of a joint venture, all members shall be jointly and severally liable for the execution of the entire Contract in accordance with the Contract terms. The JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution. Members of a joint venture may not also make an individual tender, be a subcontractor in a separate tender or be part of another joint venture for the purposes of the same Tender. The maximum number of JV members shall be specified in the **TDS**.
- 32 Public Officers of the Procuring Entity, their Spouses, Child, Parent, Brothers or Sister. Child, Parent, Brother or Sister of a Spouse, their business associates or agents and firms/organizations in which they have a substantial or controlling interest shall not be eligible to tender or be awarded a contract. Public Officers are also not allowed to participate in any procurement proceedings.
- 33 A Tenderer shall not have a conflict of interest. Any tenderer found to have a conflict of interest shall be disqualified. A tenderer may be considered to have a conflict of interest for the purpose of this tendering process, if the tenderer:

- a) Directly or indirectly controls, is controlled by or is under common control with an other tenderer.
- b) Receives or has received any director indirect subsidy from another tenderer.
- c) Has the same legal representative as an other tenderer.
- d) Has a relationship with another tenderer, directly or through common third parties, that puts it in a position to influence the tender of an other tenderer, or influence the decisions of the Procuring Entity regarding this tendering process.
- e) Any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the goods or works that are the subject of the tender.
- f) Any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as a consultant for Contract implementation.
- g) Would be providing goods, works, or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of the contract specified in this Tender Document.
- h) Has a close business or personal relationship with senior management or professional staff of the Procuring Entity who has the ability to influence the bidding process and:
 - i) Are directly or indirectly involved in the preparation of the Tender document or specifications of the Contract, and/or the Tender evaluation process of such contract; or
 - ii) May be involved in the implementation or supervision of such Contract unless the conflicts temming from such relationship has been resolved in a manner acceptable to the Procuring Entity throughout the tendering process and execution of the Contract.
- 34 A tenderer shall not be involved in corrupt, coercive, obstructive or fraudulent practice. A tenderer that is proven to have been involved in any of these practices shall be automatically disqualified.
- A Tenderer (either individually or as a JV member) shall not participate in more than one Tender, except for permitted alternative tenders. This includes participation as a subcontractor in other Tenders. Such participation shall result in the disqualification of all Tenders in which the firm is involved. Members of a joint venture may not also make an individual tender, be a sub-contractor in a separate tender or be part of another joint venture for the purposes of the same Tender. A firm that is not a tenderer or a JV member may participate as a subcontractor in more than one tender.
- A Tenderer may have the nationality of any country, subject to the restrictions pursuant to ITT3.9. ATenderer shall be deemed to have the nationality of a country if the Tenderer is constituted, incorporated or registered in and operates in conformity with the provisions of the laws of that country, as evidenced by its articles of incorporation (or equivalent documents of constitution or association) and its registration documents, as the case may be. This criterion also shall apply to the determination of the nationality of proposed sub-contractors or sub-consultants for any part of the Contract including related Services.
- 3.7 A Tenderer that has been debarred from participating in public procurement shall be ineligible to tender or be awarded a contract. The list of debarred firms and individuals is available from the website of PPRA www.ppra.go.ke.
- A Tenderer that is a state-owned enterprise or a public institution in Kenya may be eligible to tender and be awarded Contract(s) only if it is determined by the Procuring Entity to meet the following conditions, i.e. if it is:
 - i) A legal public entity of Government and/or public administration,
 - ii) financially autonomous and not receiving any significant subsidies or budget support from any public entity or Government, and;
 - (iii) operating under commercial law and vested with legal rights and liabilities similar to any commercial enterprisetoenableitcompetewithfirmsintheprivatesectoronanequalbasis.
- **39** Firms and individuals shall be ineligible if their countries of origin are:
 - (a) As a matter of law or official regulations, Kenya prohibits commercial relations with that country;
 - (b) By an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, Kenya prohibits any import of goods or contracting of works or services from that country, or any payments to any country, person, or entity in that country.

A tenderer shall provide such documentary evidence of eligibility satisfactory to the Procuring Entity, as the Procuring Entity shall reasonably request.

- 3.10 Foreign tenderers are required to source at least forty (40%) percent of their contract inputs (in supplies, local sub-contracts and labor) from citizen suppliers and contractors. To this end, a foreign tenderer shall provide in its tender documentary evidence that this requirement is met. Foreign tenderers not meeting this criterion will be automatically disqualified. Information required to enable the Procuring Entity determine if this condition is met shall be provided for this purpose in "SECTIONI II EVALUATION AND QUALIFICATION CRITERIA, Item 9".
- 3.11 Pursuant to the eligibility requirements of ITT 3.10, a tender is considered a foreign tenderer, If it is registered in Kenya and has less than 51 percent ownership by nationals of Kenya and if it does not subcontract to foreign firms or individuals more than 10 percent of the contract price, excluding provisional sums. JVs are considered as foreign tenderers if the individual member firms registered in Kenya have less 51 percent ownership by nationals of Kenya. The JV shall not subcontract to foreign firms more than 10 percent of the contract price, excluding provisional sums.
- 3.12 The National Construction Authority Act of Kenya requires that all local and foreign contractors be registered with the National Construction Authority and be issued with a Registration Certificate before they can undertake any construction works in Kenya. Registration shall not be a condition for tender, but it shall be a condition of contract award and signature. A selected tenderer shall be given opportunity to register before such award and signature of contract. Application for registration with National Construction Authority may be accessed from the website www.nca.go.ke.
- 3.13 The Competition Act of Kenya requires that firms wishing to tender as Joint Venture undertakings which may prevent, distort or lessen competition in provision of services are prohibited unless they are exempt in accordance with the provisions of Section 25 of the Competition Act, 2010. JVs will be required to seek for exemption from the Competition Authority. Exemption shall not be a condition for tender, but it shall be a condition of contract award and signature. A JV tenderer shall be given opportunity to seek such exemption as a condition of award and signature of contract. Application for exemption from the Competition Authority of Kenya may be accessed from the website www.cak.go.ke.
- 4.14 A kenyan tenderer shall be eligible to tender if it provides evidence of having fulfilled his/her tax obligations by producing valid tax compliance certificate or tax exemption certificate issued by the Kenya Revenue Authority.

4.0 Eligible goods, equipment, and services

- Goods, equipment and services to be supplied under the Contract may have their origin in any country that is not ineligible under ITT 3.9. At the Procuring Entity's request, Tenderers may be required to provide evidence of the origin of Goods, equipment and services.
- 42 Any goods, works and production processes with characteristics that have been declared by the relevant national environmental protection agency or by other competent authority as harmful to human beings and to the environment shall not be eligible for procurement.

5.0 Tenderer's responsibilities

- 5.1 The tenderer shall bear all costs associated with the preparation and submission of his/her tender, and the Procuring Entity will in no case be responsible or liable for those costs.
- 52 The tenderer, at the tenderer's own responsibility and risk, is encouraged to visit and examine and inspect the Site of the Works and its surroundings and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall beat the tenderer's own expense.
- 53 The Tenderer and any of its personnel or agents will be granted permission by the Procuring Entity to enter upon its premises and lands for the purpose of such visit. The Tenderer shall indemnify the Procuring Entity again stall liability arising from death or personal injury, loss of or damage to property, and any other losses and expenses incurred as a result of the examination and inspection.

54 The tenderer shall provide in the Form of Tender and Qualification Information, a preliminary description of the proposed work method and schedule, including charts, as necessary or required.

B. <u>CONTENTS OF TENDER DOCUMENTS</u>

60 Sections of Tender Document

The tender document consists of Parts 1, 2, and 3, which includes all the sections specified below, and which should be read in conjunction with any Addenda issued in accordance with ITT 10.

PART 1: Tendering Procedures

Section I – Instructions to Tenderers Section II – Tender Data Sheet (TDS) Section III- Evaluation and Qualification Criteria Section IV – Tendering Forms

PART 2: Works' Requirements

Section V - Bills of Quantities Section VI - Specifications Section VII - Drawings

PART 3: Conditions of Contract and Contract Forms

Section VIII - General Conditions (GCC)

Section IX - Special Conditions of Contract

Section X- Contract Forms

- The Invitation to Tender Notice issued by the Procuring Entity is not part of the Contract documents. Unless obtained directly from the Procuring Entity, the Procuring Entity is not responsible for the completeness of the Tender document, responses to requests for clarification, the minutes of a pre-arranged site visit and those of the pre-Tender meeting (if any), or Addenda to the Tender document in accordance with ITT 10. Incase of any contradiction, documents obtained directly from the Procuring Entity shall prevail.
- 63 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document and to furnish with its Tender all information and documentation as is required by the Tender document.

7.0 Clarification of Tender Document, Site Visit, Pre-tender Meeting

- A Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in writing at the Procuring Entity's address specified in the **TDS** or raise its enquiries during the pre-Tender meeting if provided for in accordance with ITT 7.2. The Procuring Entity will respond in writing to any request for clarification, provided that such request is received no later than the period specified in the **TDS** prior to the deadline for submission of tenders. The Procuring Entity shall forward copies of its response to all tenderers who have acquired the Tender documents in accordance with ITT 7.4, including a description of the inquiry but without identifying its source. If so specified in the **TDS**, the Procuring Entity shall also promptly publish its response at the web page identified in the **TDS**. Should the clarification result in changes to the essential elements of the Tender Documents, the Procuring Entity shall amend the Tender Documents following the procedure under ITT 8 and ITT 22.2.
- The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine and inspect the site(s) of the required contracts and obtain all information that may be necessary for preparing a tender. The costs of visiting the Site shall be at the Tenderer's own expense. The Procuring Entity shall specify in the **TDS** if a pre-arranged Site visit and or a pre-tender meeting will be held, when and where. The Tenderer's designated representative is invited to attend a pre-arranged site visit and a pre-tender meeting, as the case may be. The purpose of the site visit and the pre-tender meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- 73 The Tenderer is requested to submit any questions in writing, to reach the Procuring Entity not later than the period specified in the **TDS** before the meeting.

- 7.4 Minutes of a pre-arranged site visit and those of the pre-tender meeting, if applicable, including the text of the questions asked by Tenderers and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Tenderers who have acquired the Tender Documents. Minutes shall not identify the source of the questions asked.
- The Procuring Entity shall also promptly publish anonymized (*no names*) Minutes of the pre-arranged site visit and those of the pre-tender meeting at the web page identified in the **TDS**. Any modification to the Tender Documents that may become necessary as a result of the pre-arranged site visit and those of the pretender meeting shall be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT 8 and not through the minutes of the pre-Tender meeting. Non-attendance at the pre-arranged site visit and the pre-tender meeting will not be a cause for disqualification of a Tenderer.

80 Amendment of Tender Documents

- At any time prior to the deadline for submission of Tenders, the Procuring Entity may amend the Tender Documents by issuing addenda.
- Any addendum issued shall be part of the Tender Documents and shall be communicated in writing to all who have obtained the Tender Documents from the Procuring Entity. The Procuring Entity shall also promptly publish the addendum on the Procuring Entity's website in accordance with ITT 7.5.
- To give Tenderers reasonable time in which to take an addendum into account in preparing their Tenders, the Procuring Entity should extend the deadline for the submission of Tenders, pursuant to ITT 22.2.

C. PREPARATION OF TENDERS

9. Cost of Tendering

The Tenderer shall bear all costs associated with the preparation and submission of its Tender, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

10.0 Language of Tender

The Tender, as well as all correspondence and documents relating to the tender exchanged by the tenderer and the Procuring Entity, shall be written in the English Language. Supporting documents and printed literature that are part of the Tender may be in another language provided they are accompanied by an accurate and notarized translation of the relevant passages into the English Language, in which case, for purposes of interpretation of the Tender, such translation shall govern.

11.0 Documents Comprising the Tender

- **11.1** The Tender shall comprise the following:
 - a) Form of Tender prepared in accordance with ITT 12;
 - b) Schedules including priced Bill of Quantities, completed in accordance with ITT 12 and ITT 14;
 - c) Tender Security or Tender-Securing Declaration, in accordance with ITT 19.1;
 - d) Alternative Tender, if permissible, in accordance with ITT 13;
 - e) *Authorization:* written confirmation authorizing the signatory of the Tender to commit the Tenderer, in accordancewithITT20.3;
 - f) *Qualifications*: documentary evidence in accordance with ITT 17 establishing the Tenderer's qualifications to perform the Contract if its Tender is accepted;
 - g) Conformity: a technical proposal in accordance with ITT 16;
 - h) Any other document required in the **TDS**.
- In addition to the requirements under ITT 11.1, Tenders submitted by a JV shall include a copy of the Joint Venture Agreement entered into by all members. Alternatively, a letter of intent to execute a Joint Venture Agreement in the event of a successful Tender shall be signed by all members and submitted with the Tender, together with a copy of the proposed JV Agreement. Change of membership and conditions of the JV prior to contract signature will render the tender liable for disqualification.

12.0 Form of Tender and Schedules

- 12.1 The Form of Tender and Schedules, including the Bill of Quantities, shall be prepared using the relevant forms furnished in Section IV, Tendering Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITT 20.3. All blank spaces shall be filled in with the information requested. The Tenderer shall chronologically serialize all pages of the tender documents submitted.
- 12.2 The Tenderer shall furnish in the Form of Tender information on commissions and gratuities, if any, paid or to be paid to agents or any other party relating to this Tender.

13. Alternative Tenders

- 13.1 Unless otherwise specified in the TDS, alternative Tenders shall not be considered.
- When alternative times for completion are explicitly invited, a statement to that effect will be included in the **TDS**, and the method of evaluating different alternative times for completion will be described in Section III, Evaluation and Qualification Criteria.
- Except as provided under ITT 13.4 below, Tenderers wishing to offer technical alternatives to the requirements of the Tender Documents must first price the Procuring Entity's design as described in the Tender Documents and shall further provide all information necessary for a complete evaluation of the alternative by the Procuring Entity, including drawings, design calculations, technical specifications, breakdown of prices, and proposed construction methodology and other relevant details. Only the technical alternatives, if any, of the Tenderer with the Winning Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.
- When specified in the **TDS**, Tenderers are permitted to submit alternative technical solutions for specified parts of the Works, and such parts will be identified in the **TDS**, as will the method for their evaluating, and described in Section VII, Works' Requirements.

140 Tender Prices and Discounts

- 14.1 The prices and discounts (including any price reduction) quoted by the Tenderer in the Form of Tender and in the Bill of Quantities shall conform to the requirements specified below.
- The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by the Tenderer shall be deemed covered by the rates for other items in the Bill of Quantities and will not be paid for separately by the Procuring Entity. An item not listed in the priced Bill of Quantities shall be assumed to be not included in the Tender, and provided that the Tender is determined substantially responsive notwithstanding this omission, the average price of the item quoted by substantially responsive Tenderers will be added to the Tender price and the equivalent total cost of the Tender so determined will be used for price comparison.
- The price to be quoted in the Form of Tender, in accordance with ITT 12.1, shall be the total price of the Tender, including any discounts offered.
- 144 The Tenderer shall quote any discounts and the methodology for their application in the Form of Tender, in accordance with ITT 12.1.
- It will be specified in the **TDS** if the rates and prices quoted by the Tenderer are or are not subject to adjustment during the performance of the Contract in accordance with the provisions of the Conditions of Contract, except in cases where the contract is subject to fluctuations and adjustments, not fixed price. In such a case, the Tenderer shall furnish the indices and weightings for the price adjustment formulae in the Schedule of Adjustment Data and the Procuring Entity may require the Tenderer to justify its proposed indices and weightings.
- Where tenders are being invited for individual lots (contracts) or for any combination of lots (packages), tenderers wishing to offer discounts for the award of more than one Contract shall specify in their Tender the price reductions applicable to each package, or alternatively, to individual Contracts within the package. Discounts shall be submitted in accordance with ITT 14.4, provided the Tenders for all lots (contracts) are opened at the same time.

All duties, taxes, and other levies payable by the Contractor under the Contract, or for any other cause, as of the date 30 days prior to the deadline for submission of Tenders, shall be included in the rates and prices and the total Tender Price submitted by the Tenderer.

15.0 Currencies of Tender and Payment

- 15.1 The currency(ies) of the Tender and the currency(ies) of payments shall be the same.
- 152 Tenderers shall quote entirely in Kenya Shillings. The unit rates and the prices shall be quoted by the Tenderer in the Bill of Quantities, entirely in Kenya shillings.
 - a) A Tenderer expecting to incur expenditures in other currencies for inputs to the Works supplied from outside Kenya (referred to as "the foreign currency requirements") shall (if so allowed in the **TDS**) indicate in the Appendix to Tender the percentage(s) of the Tender Price (excluding Provisional Sums), needed by the Tenderer for the payment of such foreign currency requirements, limited to no more than two foreign currencies.
 - b) The rates of exchange to be used by the Tenderer in arriving at the local currency equivalent and the percentage(s) mentioned in (a) above shall be specified by the Tenderer in the Appendix to Tender and shall be based on the exchange rate provided by the Central Bank of Kenya on the date 30 days prior to the actual date of tender opening. Such exchange rate shall apply for all foreign payments under the Contract.
- 153 Tenderers may be required by the Procuring Entity to justify, to the Procuring Entity's satisfaction, their local and foreign currency requirements, and to substantiate that the amounts included in the unit rates and prices and shown in the Schedule of Adjustment Data in the Appendix to Tender are reasonable, in which case a detailed break down of the foreign currency requirements shall be provided by Tenderers.

16.0 Documents Comprising the Technical Proposal

The Tenderer shall furnish a technical proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section IV, Tender Forms, insufficient detail to demonstrate the adequacy of the Tenderer's proposal to meet the work's requirements and the completion time.

17.0 Documents Establishing the Eligibility and Qualifications of the Tenderer

- 17.1 Tenderers shall complete the Form of Tender, included in Section IV, Tender Forms, to establish Tenderer's eligibility in accordance with ITT 4.
- In accordance with Section III, Evaluation and Qualification Criteria, to establish its qualifications to perform the Contract the Tenderer shall provide the information requested in the corresponding information sheets included in Section IV, Tender Forms.
- 173 If a margin of preference applies as specified in accordance with ITT 33.1, nation al tenderers, individually or in joint ventures, applying for eligibility for national preference shall supply all information required to satisfy the criteria for eligibility specified in accordance with ITT 33.1.
- 17.4 Tenderers shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contractor or group of contractors qualifies for a margin of preference. Further the information will enable the Procuring Entity identify any actual or potential conflict of interest in relation to the procurement and/or contract management processes, or a possibility of collusion between tenderers, and thereby help to prevent any corrupt influence in relation to the procurement process or contract management.
- The purpose of the information described **in ITT 17.4** above overrides any claims to confidentiality which a tenderer may have. There can be no circumstances in which it would be justified for a tenderer to keep information relating to its ownership and control confidential where it is tendering to undertake public sector work and receive public sector funds. Thus, confidentiality will not be accepted by the Procuring Entity as a justification for a Tenderer's failure to disclose, or failure to provide required information on its ownership and control.
- 17.6 The Tenderer shall provide further documentary proof, information or authorizations that the Procuring Entity may request in relation to owner ship and control which in formation on any changes to the information which was provided by the tenderer under ITT 6.4. The obligations to require this information shall continue for the duration of the procurement process and contract performance and after completion of the contract, if any change to the information previously provided may reveal a conflict of interest in relation to the award or management of the contract.

- 17.7 All information provided by the tenderer pursuant to these requirements must be complete, current and accurate as at the date of provision to the Procuring Entity. In submitting the information required pursuant to these requirements, the Tenderer shall warrant that the information submitted is complete, current and accurate as at the date of submission to the Procuring Entity.
- 178 If a tenderer fails to submit the information required by these requirements, its tender will be rejected. Similarly, if the Procuring Entity is unable, after taking reasonable steps, to verify to a reasonable degree the information submitted by a tenderer pursuant to these requirements, then the tender will be rejected.
- 179 If information submitted by a tenderer pursuant to these requirements, or obtained by the Procuring Entity (whether through its own enquiries, through notification by the public or otherwise), shows any conflict of interest which could materially and improperly benefit the tenderer in relation to the procurement or contract management process, then:
 - i) If the procurement process is still ongoing, the tenderer will bed is qualified from the procurement process,
 - ii) if the contract has been awarded to that tenderer, the contract award will be set as depending on the outcome of (iii),
 - iii) the tenderer will be referred to the relevant law enforcement authorities for investigation of whether the tenderer or any other person shave committed any criminal offence.
- 17.10 If a tenderer submits information pursuant to these requirements that is in complete, in accurate or out-of-date, or attempts to obstruct the verification process, then the consequences ITT 17.8 will ensue unless the tenderer can show to the reasonable satisfaction of the Procuring Entity that any such act was not material, or was due to genuine error which was not attributable to the intentional act, negligence or recklessness of the tender.

18.0 Period of Validity of Tenders

- 18.1. Tenders shall remain valid for the Tender Validity period specified in the **TDS**. The Tender Validity period starts from the date fixed for the Tender submission deadline (as prescribed by the Procuring Entity in accordance with ITT 22). At ender valid for a shorter period shall be rejected by the Procuring Entity as non-responsive.
- 18.2 In exceptional circumstances, prior to the expiration of the Tender validity period, the Procuring Entity may requestTendererstoextendtheperiodofvalidityoftheirTenders. Therequestandtheresponsesshallbemadein writing. If a Tender Security is requested in accordance with ITT 19, it shall also be extended for thirty (30) days beyond the deadline of the extended validity period. A Tenderer may refuse the request without forfeiting its Tendersecurity. A Tenderergranting the requests hall not be required or permitted to modify its Tender.

19.0 Tender Security

- 19.1 The Tenderer shall furnish as part of its Tender, either a Tender-Securing Declaration or a Tender Security as specified in the **TDS**, in original form and, in the case of a Tender Security, in the amount and currency **specified** in the **TDS**. A Tender-Securing Declaration shall use the form included in Section IV, Tender Forms.
- 192 If a Tender Security is specified pursuant to ITT 19.1, the Tender Security shall be a demand guarantee in any of the following forms at the Tenderer's option:
 - I) cash:
 - ii) a bank guarantee;
 - iii) a guarantee by an insurance company registered and licensed by the Insurance Regulatory Authority listed by the Authority;
 - (iv) a guarantee issued by a financial institution approved and licensed by the Central Bank of Kenya, from a reputable source, and an eligible country.
- 193 If an unconditional bank guarantee is issued by a bank located outside Kenya, the issuing bank shall have a correspondent bank located in Kenya to make it enforceable. The Tender Security shall be valid for thirty (30) days beyond the original validity period of the Tender, or beyond any period of extension if requested under ITT 18.2.
- 194 If a Tender Security or Tender-Securing Declaration is specified pursuant to ITT 19.1, any Tender not accompanied by a substantially responsive Tender Security or Tender-Securing Declaration shall be rejected by the Procuring Entity as non-responsive.

- If a Tender Security is specified pursuant to ITT 19.1, the Tender Security of unsuccessful Tenderers shall be returned as promptly as possible upon the successful Tenderer's signing the Contract and furnishing the Performance Security and any other documents required in the TDS. The Procuring Entity shall also promptly return the tender security to the tenderers where the procurement proceedings are terminated, all tenders were determined non-responsive or a bidder declines to extend tender validity period.
- The Tender Security of the successful Tenderer shall be returned as promptly as possible once the successful Tenderer has signed the Contract and furnished the required Performance Security, and any other documents required in the TDS.
- 19.7 The Tender Security may be forfeited or the Tender-Securing Declaration executed:
 - a) if a Tenderer withdraws its Tender during the period of Tender validity specified by the Tenderer on the Form of Tender, or any extension there to provided by the Tenderer; or
 - b) if the successful Tenderer fails to:
 - i) sign the Contract in accordance with ITT47; or
 - ii) furnish a Performance Security and if required in the TDS, and any other documents required in the TDS.
- Where tender securing declaration is executed, the Procuring Entity shall recommend to the PPRA to debars the Tenderer from participating in public procurement as provided in the law.
- The Tender Security or the Tender-Securing Declaration of a JV shall be in the name of the JV that submits the Tender. If the JV has not been legally constituted into a legally enforceable JV at the time of tendering, the Tender Security or the Tender-Securing Declaration shall be in the names of all future members as named in the letter of intent referred to in ITT 4.1 and ITT 11.2.
- **19.10** A tenderer shall not issue a tender security to guarantee itself.

20.0 Format and Signing of Tender

- The Tenderer shall prepare one original of the documents comprising the Tender as described in ITT 11 and clearly mark it "ORIGINAL." Alternative Tenders, if permitted in accordance with ITT 13, shall be clearly marked "ALTERNATIVE." In addition, the Tenderer shall submit copies of the Tender, in the number specified in the **TDS** and clearly mark them "COPY." In the event of any discrepancy between the origin a land the copies, the original shall prevail.
- 202 Tenderers shall mark as "CONFIDENTIAL" all information in their Tenders which is confidential to their business. This may include proprietary information, trade secrets, or commercial or financially sensitive information.
- The original and all copies of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Tenderer. This authorization shall consist of a written confirmation as specified in the **TDS** and shall be attached to the Tender. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Tender where entries or amendments have been made shall be signed or initialed by the person signing the Tender.
- 204 In case the Tenderer is a JV, the Tender shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.
- 205 Any inter-lineation, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the Tender.

D. SUBMISSION AND OPENING OF TENDERS

21.0 Sealing and Marking of Tenders

- The Tenderer shall deliver the Tender in a single sealed envelope, or in a single sealed package, or in a single sealed container bearing the name and Reference number of the Tender, addressed to the Procuring Entity and a warning not to open before the time and date for Tender opening date. Within the single envelope, package or container, the Tenderer shall place the following separate, sealed envelopes:
 - a) in an envelope or package or container marked "ORIGINAL", all documents comprising the Tender, as

- described in ITT 11; and
- b) in an envelope or package or container marked "COPIES", all required copies of the Tender; and
- c) if alternative Tenders are permitted in accordance with ITT 13, and if relevant:
 - i) in an envelope or package or container marked "ORIGINAL -ALTERNATIVE TENDER", the alternative Tender; and
 - ii) in the envelope or package or container marked "COPIES- ALTERNATIVE TENDER", all required copies of the alternative Tender.

The inner envelopes or packages or containers shall:

- a) bear the name and address of the Procuring Entity,
- b) bear the name and address of the Tenderer; and
- c) bear the name and Reference number of the Tender.
- 21.2 If an envelope or package or container is not sealed and marked as required, the *Procuring Entity* will assume no responsibility for the misplacement or premature opening of the Tender. Tenders misplaced or opened prematurely will not be accepted.

22.0 Deadline for Submission of Tenders

- Tenders must be received by the Procuring Entity at the address specified in the **TDS** and no later than the date and time also specified in the **TDS**. When so specified in the **TDS**, tenderers shall have the option of submitting their Tenders electronically. Tenderers submitting Tenders electronically shall follow the electronic Tender submission procedures specified in the **TDS**.
- The Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders by amending the Tender Documents in accordance with ITT 8, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline shall thereafter be subject to the deadline as extended.

23.0 Late Tenders

The Procuring Entity shall not consider any Tender that arrives after the deadline for submission of tenders, in accordance with ITT 22. Any Tender received by the Procuring Entity after the deadline for submission of Tenders shall be declared late, rejected, and returned unopened to the Tenderer.

240 Withdrawal, Substitution, and Modification of Tenders

- A Tenderer may withdraw, substitute, or modify its Tender after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITT 20.3, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Tender must accompany the respective written notice. All notices must be:
 - a) prepared and submitted in accordance with ITT 20 and ITT 21 (except that withdrawals notices do not require copies), and in addition, the respective envelopes shall be clearly marked "WITHDRAWAL," "SUBSTITUTION," "MODIFICATION;" and
 - b) received by the Procuring Entity prior to the deadline prescribed for submission of Tenders, in accordance with ITT 22.
- 242 Tenders requested to be withdrawn in accordance with ITT 24.1 shall be returned unopened to the Tenderers.
- No Tender may be withdrawn, substituted, or modified in the interval between the deadline for submission of Tenders and the expiration of the period of Tender validity specified by the Tenderer on the Form of Tender or any extension thereof.

25. Tender Opening

- Except in the cases specified in ITT 23 and ITT 24.2, the Procuring Entity shall publicly open and read out all Tenders received by the deadline, at the date, time and place specified **in the TDS**, in the presence of Tenderers' designated representatives who chooses to attend. Any specific electronic Tender opening procedures required if electronic Tendering is permitted in accordance with ITT 22.1, shall be as specified in the **TDS**.
- 252 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelopes with the

corresponding Tender shall not be opened but returned to the Tenderer. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at Tender opening.

- Next, envelopes marked "SUBSTITUTION" shall be opened and read out and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned to the Tenderer. No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at Tender opening.
- Next, envelopes marked "MODIFICATION" shall be opened and read out with the corresponding Tender. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorizationtorequest the modification and is readout at Tenderopening.
- Next, all remaining envelopes shall be opened one at a time, reading out: the name of the Tenderer and whether there is a modification; the total Tender Price, per lot (contract) if applicable, including any discounts and alternative Tenders; the presence or absence of a Tender Security or Tender-Securing Declaration, if required; and any other details as the Procuring Entity may consider appropriate.
- Only Tenders, alternative Tenders and discounts that are opened and read out at Tender opening shall be considered further for evaluation. The Form of Tender and pages of the Bill of Quantities (to be decided on by the tender opening committee) are to be initialed by the members of the tender opening committee attending the opening.
- 25.7 At the Tender Opening, the Procuring Entity shall neither discuss the merits of any Tender nor reject any Tender (except for late Tenders, in accordance with ITT 23.1).
- 258 The Procuring Entity shall prepare minutes of the Tender Opening that shall include, as a minimum:
 - a) the name of the Tenderer and whether there is a withdrawal, substitution, or modification;
 - b) the Tender Price, per lot (contract) if applicable, including any discounts;
 - c) any alternative Tenders;
 - d) the presence or absence of a Tender Security, if new as required;
 - e) number of pages of each tender document submitted.
- The Tenderers' representatives who are present shall be requested to sign the minutes. The omission of a Tenderer's signature on the minutes shall not invalidate the contents and effect of the minutes. A copy of the tender opening register shall be distributed to all Tenderers.

E. EVALUATION AND COMPARISON OF TENDERS

26. Confidentiality

- Information relating to the evaluation of Tenders and recommendation of contract award shall not be disclosed to Tenderers or any other persons not officially concerned with the Tender process until information on Intention to Award the Contract is transmitted to all Tenderers in accordance with ITT 43.
- Any effort by a Tenderer to influence the Procuring Entity in the evaluation of the Tenders or Contract award decisions may result in the rejection of its tender.
- Notwithstanding ITT 26.2, from the time of tender opening to the time of contract award, if a tenderer wishes to contact the Procuring Entity on any matter related to the tendering process, it shall do so in writing.

27.0 Clarification of Tenders

- To assist in the examination, evaluation, and comparison of the tenders, and qualification of the tenderers, the Procuring Entity may, at its discretion, ask any tenderer for a clarification of its tender, given a reasonable time for a response. Any clarification submitted by a tenderer that is not in response to a request by the Procuring Entity shall not be considered. The Procuring Entity's request for clarification and the response shall be in writing. No change, including any voluntary increase or decrease, in the prices or substance of the tender shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Procuring Entity in the evaluation of the tenders, in accordance with ITT 31.
- 272 If a tenderer does not provide clarifications of its tender by the date and time set in the Procuring Entity's

request for clarification, its Tender may be rejected.

28.0 Deviations, Reservations, and Omissions

- **28.1** During the evaluation of tenders, the following definitions apply:
 - a) "Deviation" is a departure from the requirements specified in the tender document;
 - b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the tender document; and
 - c) "Omission" is the failure to submit part or all of the information or documentation required in the Tender document.

29.0 Determination of Responsiveness

- 29.1 The Procuring Entity's determination of a Tender's responsiveness is to be based on the contents of the tender itself, as defined in ITT 11.
- A substantially responsive Tender is one that meets the requirements of the Tender document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that, if accepted, would:
 - a) Affecting any substantial way, the scope, quality, or performance of the Works specified in the Contract;
 - limit in any substantial way, inconsistent with the tender document, the Procuring Entity's rights or the tenderer's obligations under the proposed contract;
 - c) if rectified, would unfairly affect the competitive position of other tenderers presenting substantially responsive tenders.
- 29.3 The Procuring Entity shall examine the technical aspects of the tender submitted in accordance with ITT 16, to confirm that all requirements of Section VII, Works' Requirements have been met without any material deviation, reservation or omission.
- 29.4 If a tender is not substantially responsive to the requirements of the tender document, it shall be rejected by the Procuring Entity and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

30.0 Non-material non-conformities

- 30.1 Provided that a tender is substantially responsive, the Procuring Entity may waive any non-conformities in the tender.
- 30.2 Provided that a Tender is substantially responsive, the Procuring Entity may request that the tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify non-material non-conformities in the tender related to documentation requirements. Requesting information or documentation on such non-conformities shall not be related to any aspect of the price of the tender. Failure of the tenderer to comply with the request may result in the rejection of its tender.
- 30.3 Provided that a tender is substantially responsive, the Procuring Entity shall rectify quantifiable non-material non-conformities related to the Tender Price. To this effect, the Tender Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component in the manner specified in the TDS.

31.0 Arithmetical Errors

- 31.1 The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in any way by any person or entity.
- 312 Provided that the Tender is substantially responsive, the Procuring Entity shall handle errors on the following basis:
 - a) Any error detected if considered a major deviation that affects the substance of the tender, shall lead to disqualification of the tender as non-responsive.
 - b) Any errors in the submitted tender arising from a miscalculation of unit price, quantity, subtotal and total bid price shall be considered as a major deviation that affects the substance of the tender and shall lead to disqualification of the tender as non-responsive. and
 - c) if there is a discrepancy between words and figures, the amount in words shall prevail

313 Tenderers shall be notified of any error detected in their bid during the notification of award.

32.0 Conversion to Single Currency

For evaluation and comparison purposes, the currency(ies) of the Tender shall be converted in to a single currency as specified in the **TDS**.

33.0 Margin of Preference and Reservations

- 33.1 A margin of preference may be allowed only when the contract is open to international competitive tendering where foreign contractors are expected to participate in the tendering process and where the contract exceeds the value/threshold specified in the Regulations.
- 332 A margin of preference shall not be allowed unless it is specified so in the **TDS**.
- 333 Contracts procured on basis of international competitive tendering shall not be subject to reservations exclusive to specific groups as provided in ITT 33.4.
- 334 Where it is intended to reserve a contract to a specific group of businesses (these groups are Small and Medium Enterprises, Women Enterprises, Youth Enterprises and Enterprises of persons living with disability, as the case may be), and who are appropriately registered as such by the authority to be specified in the TDS, a procuring entity shall ensure that the invitation to tender specifically indicates that only businesses or firms belonging to the specified group are eligible to tender. No tender shall be reserved to more than one group. If not so stated in the Invitation to Tender and in the Tender documents, the invitation to tender will be open to all interested tenderers.

34.0 Nominated Subcontractors

- 34.1 Unless otherwise stated in the **TDS**, the Procuring Entity does not intend to execute any specific elements of the Works by subcontractors selected/nominated by the Procuring Entity. In case the Procuring Entity nominates a subcontractor, the subcontract agreement shall be signed by the Subcontractor and the Procuring Entity. The main contract shall specify the working arrangements between the main contractor and the nominated subcontractor.
- 34.2 Tenderers may propose sub-contracting up to the percentage of total value of contracts or the volume of works as specified in the **TDS**. Subcontractors proposed by the Tenderer shall be fully qualified for their parts of the Works.
- Domestic subcontractor's qualifications shall not be used by the Tenderer to qualify for the Works unless their specialized parts of the Works were previously designated so by the Procuring Entity in the **TDS** a scan be met by subcontractors referred to hereafter as 'Specialized Subcontractors', in which case, the qualifications of the Specialized Subcontractors proposed by the Tenderer may be added to the qualifications of the Tenderer.

35. Evaluation of Tenders

- 35.1 The Procuring Entity shall use the criteria and methodologies listed in this ITT and Section III, Evaluation and Qualification Criteria No other evaluation criteria or methodologies shall be permitted. By applying the criteria and methodologies the Procuring Entity shall determine the Lowest Evaluated Tender in accordance with ITT 40.
- 352 To evaluate a Tender, the Procuring Entity shall consider the following:
 - a) Price adjustment in accordance with ITT 31.1 (iii); excluding provisional sums and contingencies, if any, but including Daywork items, where priced competitively;
 - b) price adjustment due to discounts offered in accordance with ITT 14.4;
 - c) converting the amount resulting from applying (a) and (b) above, if relevant, to a single currency in accordance with ITT 32;
 - d) price adjustment due to quantifiable non material non-conformities in accordance with ITT 30.3; and
 - e) any additional evaluation factors specified in the **TDS** and Section III, Evaluation and Qualification Criteria.
- 353 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be considered in Tender evaluation.

35.4 Where the tender involves multiple lots or contracts, the tenderer will be allowed to tender for one or more lots (contracts). Each lot or contract will be evaluated in accordance with ITT 35.2. The methodology to determine the lowest evaluated tenderer or tenderers base done lot (contract) or based on a combination of lots (contracts), will be specified in Section III, Evaluation and Qualification Criteria. In the case of multiple lots or contracts, tenderer will be required to prepare the Eligibility and Qualification Criteria Form for each Lot

36.0 Comparison of tenders

The Procuring Entity shall compare the evaluated costs of all substantially responsive Tenders established in accordance with ITT 35.2 to determine the Tender that has the lowest evaluated cost.

37.0 Abnormally low tenders and abnormally high tenders

Abnormally Low Tenders

- 37.1 An Abnormally Low Tender is one where the Tender price, in combination with other elements of the Tender, appears so low that it raises material concerns as to the capability of the Tenderer in regard to the Tenderer's ability to perform the Contract for the offered Tender Price or that genuine competition between Tenderersis compromised.
- 372 In the event of identification of a potentially Abnormally Low Tender, the Procuring Entity shall seek written clarifications from the Tenderer, including detailed price analyses of its Tender price in relation to the subject matter of the contract, scope, proposed methodology, schedule, allocation of risks and responsibilities and any other requirements of the Tender document.
- 373 After evaluation of the price analyses, in the event that the Procuring Entity determines that the Tenderer has failed to demonstrate its capability to perform the Contract for the offered Tender Price, the Procuring Entity shall reject the Tender.

Abnormally high tenders

- An abnormally high tender price is one where the tender price, in combination with other constituent elements of the Tender, appears unreasonably too high to the extent that the Procuring Entity is concerned that it (the Procuring Entity) may not be getting value for money or it may be paying too high a price for the contract compared with market prices or that genuine competition between Tenderers is compromised.
- Incase of a nab normally high price, the Procuring Entity shall make a survey of the market prices, check if the estimated cost of the contract is correct and review the Tender Documents to check if the specifications, scope of work and conditions of contract are contributory to the abnormally high tenders. The Procuring Entity may also seek written clarification from the tenderer on the reason for the high tender price. The Procuring Entity shall proceed as follows:
 - i) If the tender price is abnormally high based on wrong estimated cost of the contract, the Procuring Entity may accept or not a ccept the tender depending on the Procuring Entity's budget considerations.
 - ii) If specifications, scope of work and/or conditions of contract are contributory to the abnormally high tender prices, the Procuring Entity shall reject all tenders and may retender for the contract based on revised estimates, specifications, scope of work and conditions of contract, as the case may be.
- 37.6 If the Procuring Entity determines that the Tender Price is abnormally too high because genuine competition between tenderers is compromised (often due to collusion, corruption or other manipulations), the Procuring Entity shall reject all Tenders and shall institute or cause competent Government Agencies to institute an investigation on the cause of the compromise, before retendering.

380 Unbalanced and/ or front-loaded tenders

- 38.1 If in the Procuring Entity's opinion, the Tender that is evaluated as the lowest evaluated price is seriously unbalanced and/or frontloaded, the Procuring Entity may require the Tenderer to provide written clarifications. Clarifications may include detailed price analyses to demonstrate the consistency of the tender prices with the scope of works, proposed methodology, schedule and any other requirements of the Tender document.
- 382 After the evaluation of the information and detailed price analyses presented by the Tenderer, the Procuring Entity may as appropriate:

- a) accept the Tender;
- b) require that the total amount of the Performance Security be increased at the expense of the Tenderer to a level not exceeding a 30% of the Contract Price;
- c) agree on a payment mode that eliminates the inherent risk of the Procuring Entity paying too much for undelivered works;
- d) reject the Tender,

39.0 Qualifications of the tenderer

- 39.1 The Procuring Entity shall determine to its satisfaction whether the eligible Tenderer that is selected as having submitted the lowest evaluated cost and substantially responsive Tender, meets the qualifying criteria specified in Section III, Evaluation and Qualification Criteria.
- 39.2 The determination shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT 17. The determination shall not take into consideration the qualifications of other firms such as the Tenderer's subsidiaries, parent entities, affiliates, subcontractors (other than Specialized Sub-contractors if permitted in the Tender document), or any other firm(s) different from the Tenderer.
- 393 An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in disqualification of the Tender, in which event the Procuring Entity shall proceed to the Tenderer who offers a substantially responsive Tender with the next lowest evaluated price to make a similar determination of that Tenderer's qualifications to perform satisfactorily.

40.0 Lowest evaluated tender

Having compared the evaluated prices of Tenders, the Procuring Entity shall determine the Lowest Evaluated Tender. The Lowest Evaluated Tender is the Tender of the Tenderer that meets the Qualification Criteria and whose Tender has been determined to be:

- a) Most responsive to the Tender document; and
- b) the lowest evaluated price.

41.0 Procuring entity's right to accept any tender, and to reject any or all tenders.

The Procuring Entity reserves the right to accept or reject any Tender and to annul the Tender process and reject all Tenders at any time prior to Contract Award, without there by incurring any liability to Tenderers. Incase of annulment, all Tenders submitted and specifically, Tender securities, shall be promptly returned to the Tenderers.

F. AWARD OF CONTRACT

42.0 Award criteria

The Procuring Entity shall award the Contract to the successful tenderer whose tender has been determined to be the Lowest Evaluated Tender.

430 Notice of Intention to Enter into a Contract/Notification of Award

Upon award of the contract and prior to the expiry of the Tender Validity Period the Procuring Entity shall issue a Notification of Intention to Enter into a Contract/Notification of award to all tenderers which shall contain, at a minimum, the following information:

- a) the name and address of the Tenderer submitting the successful tender;
- b) the Contract price of the successful tender;
- c) a statement of the reason(s) the tender of the unsuccessful tenderer to whom the letter is addressed was unsuccessful, unless the price information in (c) above already reveals the reason;
- d) the expiry date of the Standstill Period; and
- e) instruction son how to request a debriefing and/ or submit a complaint during the stand still period;

44.0 Stand still period

- **44.1** The Contract shall not be signed earlier than the expiry of a Standstill Period of 14 days to allow any dissatisfied tender to launch a complaint. Where only one Tender is submitted, the Standstill Period shall not apply.
- Where a Standstill Period applies, it shall commence when the Procuring Entity has transmitted to each Tenderer the Notification of Intention to Enter into a Contract with the successful Tenderer.

45.0 Debriefing by The Procuring Entity

- 45.1 On receipt of the Procuring Entity's Notification of Intention to Enter into a Contract referred to in ITT 43, an unsuccessful tenderer may make a written request to the Procuring Entity for a debriefing on specific issues or concerns regarding their tender. The Procuring Entity shall provide the debriefing within five days of receipt of the request.
- Debriefings of unsuccessful Tenderers may be done in writing or verbally. The Tenderer shall bear its own costs of attending such a debriefing meeting.

46.0 Letter of Award

Prior to the expiry of the Tender Validity Period and upon expiry of the Standstill Period specified in ITT 42.1, upon addressing a complaint that has been filed with in the Standstill Period, the Procuring Entity shall transmit the Letter of Award to the successful Tenderer. The letter of award shall request the successful tenderer to furnish the Performance Security within 21 days of the date of the letter.

47.0 Signing of Contract

- 47.1 Upon the expiry of the fourteen days of the Notification of Intention to enter in to contract and upon the parties meeting their respective statutory requirements, the Procuring Entity shall send the successful Tenderer the Contract Agreement.
- Within fourteen (14) days of receipt of the Contract Agreement, the successful Tenderer shall sign, date, and return it to the Procuring Entity.
- 47.3 The written contract shall be entered into within the period specified in the notification of award and before expiry of the tender validity period.

48.0 Performance Security

- 48.1 Within twenty-one (21) days of the receipt of the Letter of Award from the Procuring Entity, the successful Tenderer shall furnish the Performance Security and, any other documents required in the TDS, in accordance with the General Conditions of Contract, subject to ITT 38.2 (b), using the Performance Security and other Forms included in Section X, Contract Forms, or another form acceptable to the Procuring Entity. A foreign institution providing a bank guarantee shall have a correspondent financial institution located in Kenya, unless the Procuring Entity has agreed in writing that a correspondent bank is not required.
- **48.2** Failure of the successful Tenderer to submit the above-mentioned Performance Security and otherdocuments required in the **TDS** or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the Tenderer offering the next Best Evaluated Tender.
- **483** Performance security shall not be required for contracts estimated to cost less than the amount specified in the Regulations.

49.0 Publication of Procurement Contract

Within fourteen days after signing the contract, the Procuring Entity shall publish the awarded contract at its notice boards and websites; and on the Website of the Authority. At the minimum, the notice shall contain the following information:

- a) name and address of the Procuring Entity;
- b) name and reference number of the contract being awarded, a summary of its scope and the selection method used:

- c) the name of the successful Tenderer, the final total contract price, the contract duration;
- d) dates of signature, commencement and completion of contract;
- e) names of all Tenderers that submitted Tenders, and their Tender prices as readout at Tender opening.

50.0 Procurement related Complaints and Administrative Review

- 50.1 The procedures for making Procurement-related Complaints are as specified in the **TDS**.
- 50.2 A request for administrative review shall be made in the form provided under contract forms.

Section II - Tender Data Sheet (TDS)

The following specific data shall complement, supplement, or amend the provisions in the Instructions to Tenderers (ITT). Whenever there is a conflict, the provisions herein shall prevail over those in ITT.

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS	
A. General		
ITT 1.1	The name of the contract is PROPOSED CONSTRUCTION OF SOCIAL HOUSING AND ASSOCIATED INFRASTRUCTURE IN KASARANI CONSTITUENCY, NAIROBI COUNTY – LOT 4	
	The reference number of the Contract is:	
	TENDER No MLPWHUD/SDHUD/AHP /385/2023-2024 – LOT 4	
ITT 2.4	The Information made available on competing firms is as follows: N/A	
ITT 2.4	The firms that provided consulting services for the contract being tendered for are: N/A	
ITT 3.1	Maximum number of members in the Joint Venture (JV) shall be: Two	
R. Contents of	 f Tender Document	
ITT 7.1	The Tenderer will submit any request for clarifications in writing at the Address:	
111 /11	(1) Name of Procuring Entity:	
	State Department of Housing and Urban Development	
	(2) Physical address for hand Courier Delivery to an office:	
	1st Ngong avenue, Ardhi House, 6th Floor, Wing B, Room 606	
	(3) Postal Address;	
	P.O. Box 30119-00100 Nairobi	
	(4) Officer to be contacted:	
	Head, Supply Chain Management Services	
	Email: procurement@housingandurban.go.ke	
ITT 7.2	A pre-arranged meeting / pretender site visit shall take place at the following date, time and place: Date: 21 st June, 2024 Time: 10.00am Place: Kasarani	
	Pre-Tender meeting shall take place at the following date, time and place: Date: _20 th June, 2024 Time: 10.00am (GMT+3) Place: Ardhi House 6th Floor Boardroom, Wing B	
ITT 7.3	The Tenderer will submit any questions in writing, to reach the Procuring Entity not later than 5 Days before the meeting.	
ITT 7.5	The Procuring Entity's website where Minutes of the pre-Tender meeting and the pre-arranged pretender will be published is https://housingandurban.go.ke/tenders/	

Reference to	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
ITC Clause	TARTICULARS OF ATTENDIA TO INSTRUCTIONS TO TENDERS
ITT 9.1	For Clarification of Tender purposes, for obtaining further information and for purchasing tender documents, the Procuring Entity's address is:
	(1) Name of Procuring Entity:
	State Department of Housing and Urban Development
	(2) Physical address for hand Courier Delivery to an office:
	1st Ngong avenue, Ardhi House, 6th Floor, Wing B, Room 606
	(3) Postal Address;
	P.O. Box 30119-00100 Nairobi
	(4) Officer to be contacted:
	Head, Supply Chain Management Services
	Email: procurement@housingandurban.go.ke
C. Preparatio	on of Tenders
ITT 11.1 (h)	 The Tenderer shall submit the following additional documents in its Tender (In addition to those described under ITT 11.1 (a) to (g)): Certified copy of Registration certificate from National Construction Authority, Category NCA1 and above in Building works (General Building Contractor), and the current Practising License. (For Kenyan Contractors, the required level of registration is NCA, Category 1, Building Works with Kenyan National Construction Authority. All other (main/ prime contractors) outside Kenya must have a registration or certification, in their respective country, that is demonstrably equivalent to Kenya's NCA, Category 1. Contractors must visit the NCA website to self-assess their registration level and provide sufficient detail to demonstrate the equivalence of their registration/certification to NCA, Category 1.) Copies of audited accounts and bank statements for each of the last three year(s) beginning from the most recent year (2021, 2022 and 2023). Certified Copy of Company Registration / Incorporation Certificates. (For Main Contractor and Domestic Sub-Contractors) - (certificate, including a certified copy of the company's Pin Certificate. (For Main Contractor and Domestic Sub-Contractors) Provide letter of Authority to seek references from bidder's bank (letter addressed to specific Banks giving authority to Client to verify the bank statements for the Main Contractor). A copy of company's list of directors, beneficial owners, name of proprietor or names of partners (Copy of CR12 / CR13) issued within the last one year and showing the list of directors (certified by commissioner for oaths)

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
	The Bidder is required to be registered by the authorities listed below and provide the relevant documentation. If not, the bidder shall provide the listed Domestic Sub-Contractors and provide the relevant applicable documents showing their qualification: i.) Electrical Installations Sub-contractor a) Company Certificate of Incorporation b) Valid NCA category 1 Company Registration – Electrical Engineering Services [Electrical Installations] c) Valid Company Tax Compliance Certificate d) EPRA Electrical Contractor License Class A-1 ii.) Lift Installations Sub-contractor a) Company Certificate of Incorporation b) Valid NCA category 1 Company Registration - Electrical Engineering Service [Lifts] c) Valid Company Tax Compliance Certificate d) EPRA Electrical Contractor License Class A-2 iii.) ICT / Security Installations Sub-contractor a) Company Certificate of Incorporation b) Valid NCA category 1 Company Registration - Electrical Engineering Service [ICT/ Security Installations / CCTV] c) Valid Company Tax Compliance Certificate d) Communication Authority of Kenya [Telecommunication Contractor's licence iv.) Mechanical Plumbing, Drainage Installations Sub-contractor a) Company Certificate of Incorporation b) Valid NCA category 1 c) Company Registration - Mechanical Engineering Services [Plumbing, Drainage, Sanitary Fittings & Firefighting] d) Valid Company Tax Compliance Certificate e) Plumber's License f) Drain-Layer's License
ITT 13.1	Alternative Tenders shall not be considered.
ITT 13.2	Alternative times for completion shall not be permitted. (For Alternative Tenders)
ITT 13.4	Alternative technical solutions shall not be permitted for the following parts of the Works.
ITT 14.5	The prices quoted by the Tenderer shall be Fixed
ITT 15.2 (a)	Foreign currency requirements not allowed
ITT 18.1	The Tender validity period shall be 120 days
ITT 18.3	(a) The Number of days beyond the expiry of the initial tender validity period will be 30 days .
	 (b) The Tender price shall be adjusted by the following percentages of the tender price: (i) ByN/A% of the local currency portion of the Contract price adjusted to reflect local inflation during the period of extension,
VINE 40 4	and (ii) ByN/A% the foreign currency portion of the Contract price adjusted to reflect the international inflation during the period of extension.
ITT 19.1	Tender Security shall be required, the amount and currency of the Tender Security shall be Kenya Shillings Forty Million (Kshs.40,000,000) issued by a Reputable Financial Institution Valid for a period of 180 days from the tender opening date. The format to match the provided Form; "FORM OF TENDER SECURITY- [Option 1–Demand Bank Guarantee]"

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS	
ITT 20.1	In addition to the original of the Tender, the number of copies is: One soft copy in PDF which is a replica of the original bid document submitted. This instruction is issued pursuant to Section 74(i)(j) of the Public Procurement and Assets Disposal Act, 2015. The tenderer shall return a priced copy of the Bills of Quantities in excel format as provided in a compact disc or Flash disk together with the scanned PDF. The excel must be a true copy original and the priced part of the PDF bidding document. No alterations should be made to the descriptions and quantities in the excel BQ.	
ITT 20.3	The written confirmation of authorization to sign on behalf of the Tenderer shall consist of: Notarized or Certified Power of Attorney and Board Resolution/s allowing the signatory to submit the bid, negotiate, and possibly execute the Project Agreement on behalf of the Bidder's Company	
D. Submission	n and Opening of Tenders	
ITT 22.1	(A) For <u>Tender submission purposes</u> only, the Procuring Entity's address is:	
	Name of Procuring Entity: State Department of Housing and Urban Development	
	Postal Address: Principal Secretary, State Department of Housing and Urban Development P.O. Box 30119-00100 Nairobi	
	Attention: Head, Supply Chain Management Services	
	Physical address for hand Courier Delivery: 1st Ngong avenue, Ardhi House, 6th Floor, Tender Box	
	Date and time for submission of Tenders: 12th July, 2024 at 9.00am (East African Time).	
	Tenders shall not submit tenders electronically.	
ITT 25.1	The Tender opening shall take place at the time and the address for Opening of Tenders provided below:	
	Name of Procuring Entity: State Department of Housing and Urban Development	
	Physical address for the location: 1st Ngong avenue, Ardhi House, 6th Floor	
	State date and time of tender opening: Friday, 12th July, 2024 at 9:00am. (East African Time).	
ITT 25.1	If Tenderers are allowed to submit Tenders electronically, they shall follow the electronic tender submission procedures specified below [insert a description of the electronic Tender opening procedures]:	
	N/A	
E. Evaluation ITT 30.3	n, and Comparison of Tenders The adjustment shall be based on the Average price of the item or component as quoted in other	
111 30.3	substantially responsive Tenders. If the price of the item or component cannot be derived from the price of other substantially responsive Tenders, the Procuring Entity shall use its best estimate.	
TT 32.1	The currency that shall be used for Tender evaluation and comparison purposes only to convert at the selling exchange rate all Tender prices expressed in various currencies into a single currency is: Kenya Shillings	
	The source of exchange rate shall be: The Central bank of Kenya (mean rate)	
	The date for the exchange rate shall be: the deadline date for Submission of the Tenders.	
ITT 33.2	A margin of preference shall not apply.	
ITT 33.4	The invitation to tender is extended to the following group that qualify for ReservationsN/A	

Reference to ITC Clause	PARTICULARS OF APPENDIX TO INSTRUCTIONS TO TENDERS
ITT 34.1	At this time, the Procuring Entity intends to execute certain specific parts of the Works by subcontractors selected in advance.
ITT 34.2	Contractor's may propose subcontracting: Maximum percentage of subcontracting permitted is: 25% of the total contract amount. Tenderers planning to subcontract more than 10% of total volume of work shall specify, in the Form of Tender, the activity(ies) or parts of the Works to be subcontracted along with complete details of the subcontractors and their qualification and experience.
ITT 34.3	The parts of the Works for which the Procuring Entity permits Tenderers to propose Specialized Subcontractors are designated as follows: 1. Electrical Works 2. Lift Installations works 3. Plumbing and Mechanical Works 4. Supply and Delivery of Doors and Windows 5. Civil Works For the above-designated parts of the Works that may require Specialized Subcontractors, the relevant qualifications of the proposed Specialized Subcontractors will be added to the qualifications of the Tenderer for the purpose of evaluation.
ITT 35.2 (e)	 Additional requirements apply; 1) Additional requirements are detailed in the evaluation criteria in Section III, Evaluation and Qualification Criteria. 2) Tenderers who have three (3) or more ongoing projects with the State Department for Housing and Urban Development will NOT be considered for award unless the Tenderer demonstrates that they have achieved a minimum completion rate of 40% for the three or more ongoing projects. Tenderer to attach the most-current Interim Payment Certificate issued by the State Department as supporting documentation.
ITT 48.1	Other documents required in addition to the Performance Security are; 1) Works Programme/Implementation Plan 2) Cash Flow Projections
ITT 50.1	The procedures for making a Procurement-related Complaint are detailed in the "Notice of Intention to Award the Contract" herein and are also available from the PPRA Website www.ppra.go.ke or email complaints@ppra.go.ke .
	If a Tenderer wishes to make a Procurement-related Complaint, the Tenderer should submit its complaint following these procedures, in writing (by the quickest means available, that is either by hand delivery or email to:
	For the attention: Director General
	Title/position: Director General
	Procuring Entity: State Department of Housing and Urban Development
	Email address: <u>procurement@housingandurban.go.ke</u>
	In summary, a Procurement-related Complaint may challenge any of the following (among others):
	(i) the terms of the Tender Documents; and
	(ii) the Procuring Entity's decision to award the contract.

SECTION III - EVALUATION AND QUALIFICATION CRITERIA

10 GENERAL PROVISIONS

- This section contains the criteria that the Employer shall use to evaluate tender and qualify tenderers. No other factors, methods or criteria shall be used other than specified in this tender document. The Tenderer shall provide all the information requested in the forms included in Section IV, Tendering Forms. The Procuring Entity shall use the Standard Tender Evaluation Document for Goods and Works for evaluating Tenders.
- Wherever a Tenderer is required to state a monetary amount, Tenderers should indicate the Kenya Shilling equivalent using the rate of exchange determined as follows:
 - a) For construction turnover or financial data required for each year Exchange rate prevailing on the last day of the respective calendar year (in which the amounts for that year is to be converted) was originally established.
 - b) Value of single contract Exchange rate prevailing on the date of the contract signature.
 - (c) Exchange rates shall be taken from the publicly available source identified in the ITT 14.3. Any error in determining the exchange rates in the Tender may be corrected by the Procuring Entity.

13 EVALUATION AND CONTRACT AWARD CRITERIA

The Procuring Entity shall use the criteria and methodologies listed in this Section to evaluate tenders and arrive at the Lowest Evaluated Tender. The tender that(i) meets the qualification criteria, (ii) has been determined to be substantially responsive to the Tender Documents, and (iii) is determined to have the Lowest Evaluated Tender price shall be selected for award of contract.

2.0 PRELIMINARY EXAMINATION FOR DETERMINATION OF RESPONSIVENESS

Preliminary examination for Determination of Responsiveness

The Procuring Entity will start by examining all tenders to ensure they meet in all respects the eligibility criteria and other mandatory requirements in the ITT, and that the tender is complete in all aspects in meeting the requirements provided for in the preliminary evaluation criteria outlined below. The Standard Tender Evaluation Report Document for Goods and Works for evaluating Tenders provides very clear guide on how to deal with review of these requirements. Tenders that do not pass the Preliminary Examination will be considered non-responsive and will not be considered further.

The following mandatory requirements shall be used for determination of Responsiveness at the preliminary evaluation.

A. Preliminary and Mandatory Requirements Checklist

S/No	PRELIMINARY EVALUATION CRITERIA / MANDATORY REQUIREMENTS FOR			
3/110	MAIN CONTRACTOR			
MR1	Original Tender document must be TAPE-BOUND and submitted alongside a Soft Copy (PDF			
	& Excel) as per TDS 20.1. Tender documents submitted as spiral bound or in a box file SHALI			
AUTOMATICALLY BE DISQUALIFIED. In addition, the docume				
	chronologically serialized on all pages and attachments.			
MR2	Form of Tender in the company Letter head duly Completed, Signed and Stamped by The			
	Tenderer in the format provided, and prepared in accordance with ITT 12 and ITT 14			
MR3	The Bills of Quantities section of the submitted Tender Document must be complete as issued,			
	with no alteration, addition or qualification of any kind whatsoever made by the Tenderer to the			
	text of the document. Any alterations, additions or qualifications shall be considered as material			
	deviations			
MR4	Certified copy of Registration certificate from National Construction Authority, Category NCA1			
	and above in Building works (General Building Contractor), and the current Practicing License.			
	(For Kenyan Contractors, the required level of registration is NCA, Category 1, Building Works			
	with Kenyan National Construction Authority. All other (main/ prime contractors) outside Kenya			

MR16	the list of directors (certified by commissioner for oaths). Compliance with TDS - ITT 35.2 (e): Tenderers who have three (3) or more ongoing projects with the State Department for Housing
MR14	case of a joint venture all parties must submit a valid confidential business questionnaire as per attached format; A copy of company's list of directors, beneficial owners, National Identity Card(s) for Sole Proprietorship/Partnership; (Copy of CR12 / CR13) issued within the last 12 months and showing
MR13	Certified copy of Valid Tax Compliance Certificate, including a certified copy of the company's Pin Certificate. (For Main Contractor and Domestic Sub Contractors). Tax Compliance Certificates with "Invalid" or "Withdrawn" status shall result to AUTOMATIC DISQUALIFICATION. Dully filled, signed and stamped Confidential Business Questionnaire as per enclosed format. In
MR11 MR12	Provide letter of Authority to seek references from bidder's bank (letter addressed to specific Banks giving authority to Client to verify the bank statements for the Main Contractor).
MR10	Certified Copy of Company Registration / Incorporation Certificates. (For Main Contractor and Domestic Sub Contractors) - (certified by commissioner for oaths)
MR9	Copies of audited accounts and bank statements for each of the last three year(s) beginning from the most recent year (2021, 2022 and 2023).
MR8	Site visit Certificate (To be confirmed)
MR7	Provide Written Form of Power Attorney for authorizing signatory of the bidder, signed by Commissioner for Oaths.
	Million (Kshs.40,000,000) issued by a Reputable Financial Institution Valid for a period of 180 days from the tender opening date. The format to match the provided Form; "FORM OF TENDER SECURITY- [Option 1–Demand Bank Guarantee]"
MR5 MR6	Provide proof of registration with the National Construction Authority for Specialized (Sub)Contractors under ITT 34.3, in accordance with ITT 11.1(h). A Tender Security shall be required. The said Tender Security shall be Kenya Shillings Forty
MD	must have a registration or certification, in their respective country, that is demonstrably equivalent to Kenya's NCA, Category 1. Contractors must visit the NCA website to self-assess their registration level and provide sufficient detail to demonstrate the equivalence of their registration/certification to NCA, Category 1.)

STAGE 2: TECHNICAL EVALUATION CRITERIA FOR THE BIDDERS

Detailed Technical Examination

After the Preliminary Examination, the Procuring Entity shall conduct a Detailed Technical Evaluation on the responsive tenders to ensure they meet the technical requirements provided for in the Detailed Technical Evaluation criteria outlined below. Points shall be awarded as follows: -

No	Parameter	Maximum Points
1	Key Personnel	10
2	General Experience	5
3	Specific Construction Experience	25
4	Schedules of Contractor's equipment	10
5	Audited Financial Report for the last 3 years	15
6	Evidence of Financial Resources	25
7	Provision of calculations for Debt Profile: EBITDA / Interest (x times) from the audited financial states for the last three (3) years	5
8	Detailed Works Program and Methodology	5
Total		100

Tenders that do not meet the minimum required points of **70 points** in the Detailed Technical Evaluation will be considered non-responsive and will not be considered further.

Item	Description	Points Scored	Max. Points
1	Key Personnel as detailed here under		10
	NB: Attach Curriculum Vitae and certificates		
	Project Manager for the firm		6
	• With relevant qualifications; qualification (1 mk) and		
	registration (1 mk) - Total (2 mks)		
	 With over 5 years' experience in similar works (2 mks) With over 10 years' general experience (2 mk) 		
	• With experience below the requirements (0 mks)		
	Site Agent with the relevant Qualifications		
	• With relevant qualifications; - Total (1 mk)		4
	• With over 5 years' experience in similar works (2 mk)		
	• With over 10 years' general experience (1 mk)		
	• With experience below the requirements (0 mks)		
2.	General Experience		5
	• Has been practicing as a Contractor for the last 10 years.		
	(0.5 mk per year)		
3.	Specific Experience (5 No. Projects)		25
	NB: Attach Letter of Award, Certificates of Completion and		
	Recommendation from the Client for EACH project. A bidder		
	who fails to provide this requirement shall NOT be scored.		
	Project of similar nature, complexity, magnitude (Project Or A Dilling of Project) Or A Dilling of Project Or A D		
	value of Kshs.2 Billion) - 5 marks per project • Project of similar nature and complexity but of lower value		
	• Project of similar nature and complexity but of lower value than the one in consideration (Points prorated)		
	Not undertaken/completed project of similar nature (0 mks)		
4.	Schedules of Contractor's equipment		
	For each specific equipment required in the construction work		10
	being tendered for. The awarding of marks for the categories will		
	be as follows:		
	✓ Item 1 and 2 - 2 marks for meeting each category		
	\checkmark 3,4,5,6,7, 8, 9 and 10 - 1 mk for meeting each category		

tem	Description	Points Scored	Max. Points
5.	Financial report:		
	Audited financial report for the last Three [3] years (2021,		
	2022 and 2023)		
	• Annual Turnover greater or equal to Kshs. 6,000,000,000		
	(Max Points)		
	• Annual Turnover below Kshs. 6,000,000,000 (Points		
	prorated)		15
	• Has not demonstrated/given evidence for turnover - (zero		
	points)		
	NB: Bidders may provide consolidated financial statements if		
	cash and cash equivalents are in separate project		
	companies		
6.	Evidence of financial resources:		
	Cash in hand, Lines of Credit, overdraft facility, e.t.c		
	(attach evidence)		
	• Has financial resources equal or above Kshs. 350,000,000.00		
	(Max Points)		
	• Has financial resources below Kshs. 350,000,000.00 (Points		25
	prorated)		25
	Has not demonstrated/given evidence for the financial		
	resources (zero points)		
	NB: Bidders may provide consolidated financial statements if		
	cash and cash equivalents are in separate project companies		
7.	Provision of calculations for Debt Profile: EBITDA /		
	Interest (x times) from the audited financial states for the		
	last three (3) years		
	• Debt profile greater than or equal to 2x (5 mks)		
	• Debt profile between 1.5x and 2x (3 mks)		_
	• Debt profile between 1x and 1.5x (1 mk)		5
	Debt profile below 1x (Zero mks)		
	NB: Bidders may provide consolidated financial statements if		
	cash and cash equivalents are in separate project companies		
8.	Detailed works program outlining the methodology of		
	implementing the project to completion including the defects		5
	liability period.		
	Adequacy of the proposed Works program:		2.5
	• Has attached a clear and legible Works Program (1mk)		
	• Program captures all elements specific to the proposed works		
	(1mk)		
	• Program covers the required timeline and all elements are		
	reasonably scheduled. (0.5 mk)		
	Adequacy of the proposed methodology:		2.5
	• Captures the Contractor's Organization structure. (1mk)		
	• Captures all elements specific to the proposed works. (1mk)		
	• Captures the inclusion of all statutory requirements specific to		
	the works (OSHA, NCA, NEMA, Stakeholder engagement,		
	e.t.c.) (0.5 mk)		
	TOTAL POINTS		100
	MINIMUM POINTS		70

NB: Tenders attaining the minimum score of 70 points in the detailed technical evaluation shall be subjected to financial evaluation and comparison to determine the lowest evaluated price of the tender.

D. Financial Evaluation:

Financial Evaluation shall comprise of the following:

- a) Completeness of the Bills of Quantities: The Bills of Quantities section of the submitted Tender Document must be complete as issued, with no alteration, addition or qualification of any kind whatsoever made by the Tenderer to the text of the document. Any alterations, additions or qualifications shall be considered as material deviations as per ITT 31 and shall lead to Disqualification.
- b) Examination of unit rates: Each bid shall be subjected to an evaluation of unit rates. Bids shall be assessed to confirm uniformity and consistency in rates of similar individual line items. Bids not meeting this criterion shall be disqualified and error checks shall not be undertaken.
- c) Error checks: Successful bids from the examination of unit rates shall be evaluated for arithmetic errors. All arbitrary additions to the tender document shall be considered as arithmetic errors. An assessment of the bids taking into consideration the Tender Sum, corrections relating to arithmetic errors and any discounts offered shall be done to determine the bids' Evaluated Tender Sum.
- d) Conformance with the estimated cost: The estimate for the project is Kshs. 4,000,000,000.000 with a plinth area of 102,458 Sqm. The development cost (all-inclusive for the built-up structures and all the external works) shall be up to Ksh. 40,000.00 per square metre based on the plinth areas.
 - TENDERERS FAILING TO COMPLY WITH THIS REQUIREMENT SHALL BE DISQUALIFIED.
- e) Ranking of the bids: Ranking of the bids using their Evaluated Tender Sums shall be undertaken. The ranking shall be used to determine the bid with the Lowest Evaluated Tender sum, which shall be considered for award.

4.0 MULTIPLE CONTRACTS

4.1 Multiple contracts will be permitted in accordance with ITT 35.4. Tenderers are evaluated on basis of Lots and a lowest evaluated tenderer identified for each Lot. The Procuring Entity will select one Option of the two Options listed below for award of Contracts.

OPTION 1

- (i) If a tenderer wins only one Lot, the tenderer will be awarded a contract for that Lot, provided the tenderer meets the Eligibility and Qualification Criteria for that Lot.
- (ii) If a tenderer wins more than one Lot, the tender will be awarded a contract for all won Lots, provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the won Lots. The tenderer will be awarded only the combinations for which the tenderer qualifies and the others will be considered for award to second lowest the tenderers.

OPTION 2

The Procuring Entity will consider all possible combinations of won Lots [contract(s)] and determine the combination with the lowest evaluated price. Tenders will then be awarded to the Tenderer or Tenderers in the combination provided the tenderer meets the aggregate Eligibility and Qualification Criteria for all the won Lots.

5.0 ALTERNATIVE TENDERS (ITT 13.1) N/A

Alternative Tenders (ITT 13.1)

An alternative if permitted under ITT 3.1, will be evaluated as follows:

The Procuring Entity shall consider Tenders offered for alternatives as specified in Part 2 - Works requirements. Only the technical alternatives, if any, of the Tenderer with the Best Evaluated Tender conforming to the basic technical requirements shall be considered by the Procuring Entity.

60 MARGIN OF PREFERENCE – NOT APPLICABLE

- 61 If the TDS so specifies, the Procuring Entity will grant a margin of preference of fifteen percent (15%) to be loaded on evaluated prices of the foreign tenderers, where the percentage of shareholding of Kenyan citizens is less than fifty- one percent (51%).
- 62 Contractors shall be asked to provide, as part of the data for qualification, such information, including details of ownership, as shall be required to determine whether, according to the classification established by the Procuring Entity, a particular contractor or group of contractors qualifies for a margin of preference.
- After Tenders have been received and reviewed by the Procuring Entity, responsive Tenders shall be assessed to ascertain their percentage of shareholding of Kenyan citizens. Responsive tenders shall be classified into the following groups:
 - i) *Group A:* tenders offered by Kenyan Contractors and other Tenderers where Kenyan citizens hold shares of over fifty one percent (51%).
 - ii) *Group B:* tenders offered by foreign Contractors and other Tenderers where Kenyan citizens hold shares of less than fifty one percent (51%).
- All evaluated tenders in each group shall, as a first evaluation step, be compared to determine the lowest tender, and the lowest evaluated tender in each group shall be further compared with each other. If, as a result of this comparison, a tender from Group A is the lowest, it shall be selected for the award of contract. If a tender from Group B is the lowest, an amount equal to the percentage indicated in Item 6.1 of the respective tender price, including unconditional discounts and excluding provisional sums and the cost of day works, if any, shall be added to the evaluated price offered in each tender from Group B. All tenders shall then be compared using new prices with added prices to Group B and the lowest evaluated tender from Group A. If the tender from Group A is still the lowest tender, it shall be selected for award. If not, the lowest evaluated tender from Group B based on the first evaluation price shall be selected.

7. Post qualification and Contract ward (ITT 39), more specifically,

- a) In case the tender <u>was subject to post-qualification</u>, the contract shall be awarded to the lowest evaluated tenderer, subject to confirmation of pre-qualification data, if so required.
- b) In case the tender <u>was not subject to post-qualification</u>, the tender that has been determined to be the lowest evaluated tenderer shall be considered for contract award, subject to <u>meeting each of the following conditions</u>.
 - i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow of Kenya Shillings Kenya Shillings Three Hundred and Fifty Million (Kshs.350,000,000.00)
 - ii) Minimum <u>average</u> annual construction turnover of Kenya Shillings <u>Six Billion (Kshs. 6,000,000,000.00)</u>, equivalent calculated as total certified payments received for contracts in progress and/or completed within the last **three (3) years**.
 - iii) At least **Five (5) no.** of contract(s) of a similar nature executed **within Kenya**, or the East African Community or a broad, that have been satisfactorily and substantially completed as a prime contractor, or joint venture member or sub-contractor each of minimum value **Kenya shillings**Three Billion Two Hundred Million (Kshs.3,200,000,000.00) or equivalent.
 - iv) Contractor's Representative and Key Personnel, which are specified as

No.	Position	Total Work Experience (years)	Experience in Similar Works (years)
1	Project Manager (Bachelor of Architecture OR Bachelor of Quantity Surveying OR Civil Engineering OR Construction Management. all registered with relevant professional bodies).	10	5
2	Site Agent (Bachelor in Architecture OR Quantity Surveying OR Civil Engineering. all registered with relevant professional bodies).	10	5

v) Contractors key equipment listed on the table "Contractor's Equipment" below and more specifically listed as

Item No.	Equipment Type and Characteristics	No. required
1	Batching Plant	1
2	45M Crane	1
3	Excavator 20 Ton	2
4	Tipper Truck 15 ton.	10
5	20-ton Roller	1
6	25-ton Shovel	1
7	20KVA Generator	1
8	Van. pick-up or similar utility vehicle	5
9	Dumpy Level	3
10	Total Station	1

vi) Other Conditions depending on their seriousness

f) **History of non-performing contracts:**

Tenderer and each member of JV in case the Tenderer is a JV, shall demonstrate that non-performance of a contract did not occur because of the default of the Tenderer, or the member of a JV in the last **Three Years**. The required information shall be furnished in the appropriate form.

g) **Pending Litigation**

Financial position and prospective long-term profit ability of the Single Tenderer, and in the case the Tenderer is a JV, of each member of the JV, shall remain sound according to criteria established with respect to Financial Capability under Paragraph (i) above if all pending litigation will be resolved against the Tenderer. Tenderer shall provide information on pending litigations in the appropriate form.

h) Litigation History

There shall be no consistent history of court/arbitral award decisions against the Tenderer, in the last **Three Years**. All parties to the contract shall furnish the information in the appropriate form about any litigation or arbitration resulting from contracts completed or on going unde rits execution over the years specified. A consistent history of awards against the Tenderer or any member of a JV may result in rejection of the tender.

QUALIFICATION FORM*

1	2	3	4	5
Item No.	Qualification Subject	Qualification Requirement	Document To be Completed by Tenderer	For Procuring Entity's Use (Qualification met or Not Met)
1	Nationality	Nationality in accordance with ITT 3.6	Forms ELI – 1.1 and 1.2, with attachments	
2	Tax Obligations for Kenyan Tenderers	Has produced a current tax clearance certificate or tax exemption certificate issued by Kenya Revenue Authority in accordance with ITT 3.14.	Attachment	
3	Conflict of Interest	No conflicts of interest in accordance with ITT 3.3	Form of Tender	
4	PPRA Eligibility	Not having been declared ineligible by the PPRA as described in ITT 3.7	Form of Tender	
5	State- owned Enterprise	Meets conditions of ITT 3.8	Forms ELI – 1.1 and 1.2, with attachments	
6	Goods, equipment and services to be supplied under the contract	To have their origin in any country that is not determined ineligible under ITT 4.1	Forms ELI – 1.1 and 1.2, with attachments	
7	History of Non- Performing Contracts	Non-performance of a contract did not occur as a result of contractor default since 1st January 2021	Form CON-2	
8	Suspension Based on Execution of Tender/Proposal Securing Declaration by the Procuring Entity	Not under suspension based on-execution of a Tender/Proposal Securing Declaration pursuant to ITT 19.9	Form of Tender	
9	Pending Litigation	Tender's financial position and prospective long-term profitability still sound according to criteria established in 3.1 and assuming that all pending litigation will NOT be resolved against the Tenderer.	Form CON – 2	
10	Litigation History	No consistent history of court/arbitral award decisions against the Tenderer since 1st January 2021	Form CON – 2	
11	Financial Capabilities	(i) The Tenderer shall demonstrate that it has access to, or has available, liquid assets, unencumbered real assets, lines of credit, and other financial means (independent of any contractual advance payment) sufficient to meet the construction cash flow requirements estimated as Kenya Shillings Six Hundred Million (Kshs.600,000,000) equivalent for the subject contract(s) net of the Tenderer's other commitments.	Form FIN – 3.1, with attachments	

1	2	3	4	5
Item	Qualification Subject	Qualification Requirement	Document To be Completed	For Procuring Entity's
No.			by Tenderer	Use (Qualification met or
				Not Met)
		(ii) The Tenderers shall also demonstrate, to the satisfaction		
		of the Procuring Entity, that it has adequate sources of		
		finance to meet the cash flow requirements on works		
		currently in progress and for future contract commitments.		
		(iii) The audited balance sheets or, if not required by the		
		laws of the Tenderer's country, other financial statements		
		acceptable to the Procuring Entity, for the last 2 years shall		
		be submitted and must demonstrate the current soundness		
		of the Tenderer's financial position and indicate its		
		prospective long-term profitability.		
12	Average Annual	Minimum average annual construction turnover of Five	Form FIN – 3.2	
	Construction Turnover	Billion, Seven Hundred Million (Kshs.5,700,000,000),		
		equivalent calculated as total certified payments received		
		for contracts in progress and/or completed within the last		
		Three years, divided Three years.		
13	General Construction	Experience under construction contracts in the role of prime	Form EXP – 4.1	
	Experience	contractor, JV member, sub-contractor, or management		
		contractor for at least the last $Ten (10)$ years, starting 1_{st}		
		January 2014.		
14	Specific Construction &	A minimum number of 3 (Three) similar contracts	Form EXP 4.2(a)	
	Contract Management	specified below that have been satisfactorily and		
	Experience	substantially completed as a prime contractor, joint venture		
		member, management contractor or sub-contractor between		
		1st January 2019 and tender submission deadline i.e		
		(number) contracts, each of minimum value Three Billion (Kshs.3,000,000,000.00) equivalent.		
		[In case the Works are to be tender as individual contracts		
		under multiple contract procedure, the minimum number of		
		contracts required for purposes of evaluating qualification		
		shall be selected from the options mentioned in ITT 35.4]		
		shall be selected from the options mentioned in 111 55.4]		
		The similarity of the contracts shall be based on the		
		following: [Based on Section VII, Scope of Works, specify		
		the minimum key requirements in terms of physical size,		
		complexity, construction method, technology and/or other		
		characteristics including part of the requirements that may		
		be met by specialized subcontractors, if permitted in		
		accordance with ITT 34.3]		

SECTION IV - TENDERING FORMS

QUALIFICATION FORMS

1. FOREIGN TENDERERS 40%RULE

Pursuant to ITT 3.9, a foreign tenderer must complete this form to demonstrate that the tender fulfils this condition.

ITEM	Description of Work Item	Describe location of Source	COST in K. shillings	Comments, if any
A	Local Labor			
1				
2				
3				
4				
5				
В	Sub contracts from Local source	es		
1				
2				
3				
4				
5				
С	Local materials			
1				
2				
3				
4				
5				
D	Use of Local Plant and Equipme	ent		
1				
2				
3				
4				
5				
Е	Add any other items			
1	<u> </u>			
2				
3				
4				
5				
6				
	TOTAL COST LOCAL CONT	ENT	XXXXX	

2. FORM: EQUIPMENT

The Tenderer shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Tenderer.

Item of equipm	ent		
Equipment information	Name of manufacturer	Model and power rating	
	Capacity	Year of manufacture	
Current status	Current location		
	Details of current commitments		
Source	Indicate source of the equipment ☐ Owned ☐ Rented ☐ Leased	☐ Specially manufactured	
Omit the follow	ing information for equipment owned by the	Tenderer.	
Owner	Name of owner		
	Address of owner		
	Telephone	Contact name and title	
	Fax	Telex	
Agreements	Details of rental / lease / manufacture agreements specific to the project		

3. <u>FORM PER -1</u>

Contractor's Representative and Key Personnel Schedule

Tenderers should provide the names and details of the suitably qualified Contractor's Re presentative and Key Personnel to perform the Contract. The data on their experience should be supplied using the Form PER-2 below for each candidate.

Contractor' Representative and Key Personnel

1.	Title of position: Contracto	Title of position: Contractor's Representative		
	Name of candidate:			
	Duration of	[insert the whole period (start and end dates) for which this position will be		
	appointment:	engaged]		
	Time commitment: for	[insert the number of days/week/months/ that has been scheduled for this		
	this position:	position]		
	Expected time schedule	[insert the expected time schedule for this position (e.g. attach high level		
	for this position:	Gantt chart]		
2.	Title of position: [
	Name of candidate:			
	Duration of	[insert the whole period (start and end dates) for which this position will be		
	appointment:	engaged]		
	Time commitment: for	[insert the number of days/week/months/ that has been scheduled for this		
	this position:	position]		
	Expected time schedule	[insert the expected time schedule for this position (e.g. attach high level		
	for this position:	Gantt chart]		
3.	Title of position: []		
	Name of candidate:			
	Duration of	[insert the whole period (start and end dates) for which this position will be		
	appointment:	engaged]		
	Time commitment: for	[insert the number of days/week/months/ that has been scheduled for this		
	this position:	position]		
	Expected time schedule	[insert the expected time schedule for this position (e.g. attach high level		
	for this position:	Gantt chart]		
4.	Title of position: []			
	Name of candidate:			
	Duration of	[insert the whole period (start and end dates) for which this position will be		
	appointment:	engaged]		
	Time commitment: for	[insert the number of days/week/months/ that has been scheduled for this		
	this position:	position]		
	Expected time schedule	[insert the expected time schedule for this position (e.g. attach high level		
	for this position:	Gantt chart]		
5.	Title of position: [insert title	le]		
	Name of candidate			
	Duration of	[insert the whole period (start and end dates) for which this position will be		
	appointment:	engaged]		
	Time commitment: for	[insert the number of days/week/months/ that has been scheduled for this		
	this position:	position]		
	Expected time schedule	[insert the expected time schedule for this position (e.g. attach high level		
	for this position:	Gantt chart]		

4. **FORM PER - 2:**

Resume and Declaration - Contractor's Representative and Key Personnel.

Name of Tend	erer	
Position [#1]:	[title of position from Form PER-1]	
Personnel information	Name:	Date of birth:
	Address:	E-mail:
	Professional qualifications:	
	Professional qualifications:	
	Academic qualifications:	
	Language proficiency: [language and le	vels of speaking, reading and writing skills]
Details		
	Address of Procuring Entity:	
	Telephone:	Contact (manager / personnel officer):
	Fax:	
	Job title:	Years with present Procuring Entity:

Summarize professional experience in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

Project	Role	Duration of involvement	Relevant experience
[main project details]	[role and responsibilities on the project]	[time in role]	[describe the experience relevant to this position]

Declaration

I, the undersigned [insert either "Contractor's Representative" or "Key Personnel" as applicable], certify that to the best of my knowledge and belief, the information contained in this Form PER-2 correctly describes myself, my qualifications and my experience.

I confirm that I am available as certified in the following table and throughout the expected time schedule for this position as provided in the Tender:

Commitment	Details
Commitment to duration of contract:	[insert period (start and end dates) for which this
	Contractor's Representative or Key Personnel is available
	to work on this contract]
Time commitment:	[insert period (start and end dates) for which this
	Contractor's Representative or Key Personnel is available
	to work on this contract]

I understand that any misrepresentation or omission in this Form may:

- (a) be taken into consideration during Tender evaluation;
- (b) result in my disqualification from participating in the Tender;
- (c) result in my dismissal from the contract.

Name of Contractor's Representative or Key Personnel: [insert name]
Signature:
Date: (day month year):
Countersignature of authorized representative of the Tenderer:
Signature:
Date: (day month year):

5. TENDERERS QUALIFICATION WITHOUT PREQUALIFICATION

To establish its qualifications to perform the contract in accordance with Section III, Evaluation and Qualification Criteria the Tenderer shall provide the information requested in the corresponding Information Sheets included hereunder.

SI FORM ELI-1.1
Tenderer Information
Form
Date:
ITT No. and title:
Tenderer's name
In case of Joint Venture (JV), name of each member:
Tenderer's actual or intended country of registration:
[indicate country of Constitution]
[indicate country of Constitution] Tenderer's actual or intended year of incorporation:
Tenderer's legal address [in country of registration]:
Tenderer's authorized representative information
Name:
Address:
Telephone/Fax numbers:
E-mail address:
1. Attached are copies of original documents of
Articles of Incorporation (or equivalent documents of constitution or association), and/or
documents of registration of the legal entity named above, in accordance with ITT 3.6
In case of JV, letter of intent to form JV or JV agreement, in accordance with ITT 3.5
□In case of state-owned enterprise or institution, in accordance with ITT 3.8, documents establishing:
Legal and financial autonomy
Operation under commercial law
1. Establishing that the Tenderer is not under the supervision of the Procuring Entity
2. Included are the organizational chart and a list of Board of Directors

52 FORM ELI -1.2

Entity, in accordance with ITT 3.5.

2. Included are the organizational chart and a list of Board of Directors.

Tenderer's JV Information Form (to be completed for each member of Tenderer's JV) ITT No. and title: Tenderer's JV name: JV member's name: JV member's country of registration: JV member's year of constitution: JV member's legal address in country of constitution: JV member's authorized representative information Name: Address: Telephone/Fax numbers: _____ E-mail address: 1. Attached are copies of original documents of ☐ Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITT 3.6. ☐ In case of a state-owned enterprise or institution, documents establishing legal and financial autonomy, operation in accordance with commercial law, and that they are not under the supervision of the Procuring

53 <u>FORM CON -2</u>

Historical Contract Non-Performance, Pending Litigation and Litigation History

			,	•
	Name:			
Date:				
JV Membe	er's Name			
ITT No. an	nd title:			
			vith Section III, Evaluation and Qualification C	
			occur since 1st January [insert year] specified i	n Section III, Evaluation and
Qualification	on Criteria, Sub-Fa	ctor 2.1.		
_				
		ormed since 1	st January [insert year] specified in Section III,	Evaluation and Qualification
Criteria, red	quirement 2.1			
	/			
		vn since Ist Ja	nuary [insert year] specified in Section III, Ev	aluation and Qualification
	quirement 2.1	G	, , e, , , , , , , , , , , , , , , , ,	TO A LOCAL AND A
Year	Non- performed	Contract 10	lentification	Total Contract Amount
	portion of			(current value, currency,
	contract			exchange rate and Kenya
r· .	f :	C	('C' .' I' /	Shilling equivalent)
[insert	[insert amount	Contract Identification: [indicate complete contract name/ number, and any other identification]		[insert amount]
year]	and percentage]		•	
			ocuring Entity: [insert full name]	
			Procuring Entity: [insert street/city/country]	
Danding Lit	tication in accorda		or nonperformance: [indicate main reason(s)]	
			ion III, Evaluation and Qualification Criteria with Section III, Evaluation and Qualification	on Critoria Sub Factor 2.2
			ith Section III, Evaluation and Qualification Cri	
indicated b		iccordance wi	iui section in, Evaluation and Quantication Cri	iteria, Sub-Factor 2.3 as
marcated b	ciow.			_
Year of	Amount i	n disnute	Contract Identification	Total Contract Amount
dispute	(currency)	-	Contract Identification	(currency), Kenya
	(Shilling Equivalent
				(exchange rate)
			Contract Identification:	
			Name of Procuring Entity:	
			Address of Procuring Entity:	
			Matter in dispute:	
			Party who initiated the dispute:	
			Status of dispute:	
			Contract Identification:	
			Name of Procuring Entity:	

Status of dispute:

Litigation History in accordance with Section III, Evaluation and Qualification Criteria

□ No Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4.

Address of Procuring Entity:

Party who initiated the dispute:

Matter in dispute:

☐ Litigation History in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4 as indicated below.

Year of dispute	Amou (curre	nt in dispute ncy)	Contract Identification	Total Contract Amount (currency), Kenya Shilling Equivalent (exchange rate)
[insert year]	[insert pe	ercentage]	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Procuring Entity: [insert full name] Address of Procuring Entity: [insert street/city/country] Matter in dispute: [indicate main issues in dispute] Party who initiated the dispute: [indicate "Procuring Entity" or "Contractor"] Reason(s) for Litigation and award decision [indicate main reason(s)]	[insert amount]

Include details relating to potential bid-rigging practices such as previous occasions where tenders were withdrawn, joint bids with competitors, subcontracting work to unsuccessful tenderers, etc.

5.4 **FORM FIN – 3.1:**

Financial Situation and Performance

Tenderer's Name:	
Date:	
JV Member's Name	
ITT No. and title:	

5.4.1. Financial Data

pe of Financial information Historic information for previousyears,					
in (currency)	(amount in currency, currency, exchange rate*, USD equivalent)				
	Year 1	Year 2	Year 3	Year 4	Year 5
Statement of Financial Position (Inf	formation from	m Balance She	eet)		
Total Assets (TA)					
Total Liabilities (TL)					
Total Equity/Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Working Capital (WC)					
Information from Income Statemen	t				
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Cash Flow Information					
Cash Flow from Operating Activition	es				

^{*}Refer to ITT 15 for the exchange rate

5.4.2 Sources of Finance

Specify sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.

No.	Source of finance	Amount (Kenya Shilling equivalent)
1		
2		
3		

5.4.3 Financial documents

(b) be independently audited or certified in accordance with local legislation.

(c) be complete, including all notes to the financial statements.

(d) correspond to accounting periods already completed and audited.

 \square Attached are copies of financial statements¹ for the ______ years required above; and complying with the requirements

¹ If the most recent set of financial statements is for a period earlier than 12 months from the date of Tender, the reason for this should be justified.

5.5 FORM FIN -3.2:

Average Annual Construction Turnover

Tenderer's Name:	
Date:	
JV Member's Name	
ITT No. and title:	

Annual turnover data (construction only)						
Year	Amount	Exchange rate	Kenya Shilling equivalent			
	Currency					
[indicate year]	[insert amount and indicate					
	currency]					
Average						
Annual						
Construction						
Turnover *						

^{*} See Section III, Evaluation and Qualification Criteria, Sub-Factor 3.2.

5.6 **FORM FIN – 3.3:**

Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject contract or contracts as specified in Section III, Evaluation and Qualification Criteria

Fina	Financial Resources				
No.	Source of financing	Amount (Kenya Shilling equivalent)			
1					
2					
3					

5.7 **FORM FIN – 3.4:**

Current Contract Commitments / Works in Progress

Tenderers and each member to a JV should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current	Current Contract Commitments							
No.	Name of Contract	Procuring Entity's Contact Address, Tel,	Value of Outstanding Work [Current Kenya Shilling/month Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [Kenya Shilling /month)]			
1								
2								
3								
4								
5								

5.8 **FORM EXP - 4.1**

General Construction Experience

Tenderer's Name:			
Date:		_	
JV Member's Name			
ITT No. and title: $__$			
Dogo	of		nages

Starting	Ending Year	Contract Identification	Role of Tenderer
Year			
		Contract name:	
		Brief Description of the Works performed by the	
		Tenderer:	
		Amount of contract:	
		Name of Procuring Entity:	
		Address:	
		Contract name:	
		Brief Description of the Works performed by the	
		Tenderer:	
		Amount of contract:	
		Name of Procuring Entity:	
		Address:	
		Contract name:	
		Brief Description of the Works performed by the	
		Tenderer:	
		Amount of contract:	
		Name of Procuring Entity:	
		Address:	

5.9 **FORM EXP - 4.2(a)**

Specific Construction and Contract Management Experience

Tenderer's Name:				
Date:				
JV Member's Name				
ITT No. and title:				
Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor □	Member in JV □	Management Contractor □	Sub- contractor □
Total Contract Amount			Kenya Shilling	·
If member in a JV or sub-contractor, specify participation in total Contract amount				
Procuring Entity's Name:				
Address: Telephone/fax number E-mail:				
Tenderer's Name: Date: JV Member's Name				
ITT No. and title:				
Similar Contract No.	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor □	Member in JV □	Management Contractor □	Sub- contractor
Total Contract Amount			Kenya Shilling	1
If member in a JV or sub-contractor, specify participation in total Contract				
amount Procuring Entity's Name:				
Address:				
Telephone/fax number E-mail:				

5.9 **FORM EXP - 4.2** (a) (cont.)

Specific Construction and Contract Management Experience (cont.)

Simila	r Contract No.	Information
Descrip	otion of the similarity in accordance	
with Su	b-Factor 4.2(a) of Section III:	
1.	Amount	
2.	Physical size of required works	
items		
3.	Complexity	
4.	Methods/Technology	
5.	Construction rate for key activities	
6.	Other Characteristics	

5.10 **FORM EXP - 4.2(b)**

Construction Experience in Key Activities

Tenderer's Name:				
Date:				
Tenderer's JV Member Name:				
Sub-contractor's Name ² (as per ITT 34):		_		
ITT No. and title:	_			
All Sub-contractors for key activities mu Evaluation and Qualification Criteria, S	-	e information i	n this form as	per ITT 34 and
1. Key Activity No One: _				
	Information			
Contract Identification				
Award date				
Completion date				
Role in Contract	Prime Contractor □	Member in JV □	Management Contractor □	Sub-contractor
Total Contract Amount			Kenya Shillin	g
Quantity (Volume, number or rate of production, as applicable) performed under the contract per year or part of the year	Total quantity the contract (i)	in Percentage participati (ii)		Actual Quantity Performed (i) x (ii)
Year 1				
Year 2				
Year 3				
Year 4				
Procuring Entity's Name:				
Address: Telephone/fax number E-mail:				

Section III,

_

² If applicable

	Information
Description of the key activities in accordance with Sub-Factor 4.2(b) of Section III:	

2. Activity No. Two

3.

OTHER FORMS

6. FORM OF TENDER

INSTRUCTIONS TO TENDERERS

i)	All italicized text is to help the Tenderer in preparing this form.
ii)	The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the Tenderer's complete name and business address. Tenderers are reminded that this is a mandator requirement.
iii)	Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and the SELF DECLARATION FORMS OF THE TENDERER as listed under (xxii) below.
Dat	e of this Tender submission:[insert date (as day, month and year) of Tender submission] Tender
Nar	ne and Identification:[insert identification] Alternative
No.	[insert identification No if this is a Tender for an alternative]
To:	[Insert complete name of Procuring Entity]
for [ins	e of this Tender submission: [insert date (as day, month and year) of Tender submission] Request Tender No.: [insert identification] Name and description of Tender [Insert as per ITT) Alternative No.: ert identification No if this is a Tender for an alternative] [insert complete name of Procuring Entity]
<i>1</i> .	In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct and complete the Works and remedy any defects therein for the sum ³ of Kenya Shillings [[Amount in figures]Kenya Shillings [amount in words]
	The above amount includes foreign currency ⁴ amount (s) of [state figure or a percentage and currency] [figures][words]
2.	We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receip of the Architect notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Special Conditions of Contract.
3.	We agree to adhere by this tender until[Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4.	We understand that you are not bound to accept the lowest or any tender you may receive.
5.	We, the undersigned, further declare that:

³ This sum should be carried forward from the Summary of the Bills of Quantities.
⁴ The percentage quoted above should not include provisional sums, and not more than two foreign currencies are allowed.

- i) <u>No reservations</u>: We have examined and have no reservations to the tender document, including Addenda issued in accordance with ITT 28;
- ii) <u>Eligibility:</u> We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3 and 4;
- iii) <u>Tender Securing Declaration</u>: We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing or Proposal-Securing Declaration in the Procuring Entity's Country in accordance with ITT 19.8;
- *iv)* Conformity: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the following Works: [insert a brief description of the Works];
- v) <u>Tender Price:</u> The total price of our Tender, excluding any discounts offered in item 1 above is: [Insert one of the options below as appropriate]
- vi Option 1, incase of one lot: Total price is: [insert the total price of the Tender in words and figures, indicating the various amounts and the respective currencies]; or

Option2, in case of multiple lots:

- (a) <u>Total price of each lot</u> [insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]; and
- (b) <u>Total price of all lots</u> (sum of all lots) [insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies];
- vii) <u>Discounts:</u> The discounts offered and the methodology for their application are:
- viii) The discounts offered are: [Specify in detail each discount offered.]
- ix) The exact method of calculations to determine the net price after application of discounts is shown below: [Specify in detail the method that shall be used to apply the discounts];
- x) <u>Tender Validity Period</u>: Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- xi) <u>Performance Security:</u> If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tendering document;
- xii) One Tender Per Tender: We are not submitting any other Tender(s) as an individual Tender, and we are not participating in any other Tender(s) as a Joint Venture member or as a sub-contractor, and meet the requirements of ITT 3.4, other than alternative Tenders submitted in accordance with ITT 13.3;
- xiii) <u>Suspension and Debarment</u>: We, along with any of our subcontractors, suppliers, Engineer, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Public Procurement Regulatory Authority or any other entity of the Government of Kenya, or any international organization.
- xiv) <u>State-owned enterprise or institution:</u> [select the appropriate option and delete the other] [We are not a state-owned enterprise or institution]/[We are a state-owned enterprise or institution but meet the requirements of ITT3.8];
- xv) Commissions, gratuities, fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the tender process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity].

Name of Recipient	Address	Reason	Amount

	(If no	one has been paid or is	to be paid, indicate	e "none.")		
xvi)	Bind	ling Contract: We un uded in your Letter of ract is prepared and ex	derstand that this f Acceptance, shall	Tender, together		
xvii)		Bound to Accept: We Most Advantageous Te				est evaluated cost Te
xviii)		nd and Corruption: We n our behalf engages in				nat no person acting
xix)	with	usive practices: We had the intention of accepted pendent Tender Determine	oting the contract if	awarded. To this		
xx)	Disp	undertake to adhere by oosal, copy available fr execution of any result	rom			
	Own notifi	ficial Ownership Intership Information in cation of intention to be interested in the cation of intention to be interested in the cation of intention in the cation of intention in the cation of the cation in the cation of the cation in the cation of the	conformity with t	he Beneficial O	wnership Discle	osure Form upon re
xxii)	We,	the Tenderer, have dul	y completed, signed	and stamped the	following Forn	ns as part of our Tend
	a)	Tenderer's Eligibility to interest.	; Confidential Busin	ess Questionnair	e - to establish v	we are no tin any con
	b)	Certificate of Independent colluding with other		nination - to decla	are that we comp	pleted the tender with
	c)	Self-Declaration of the form of fraud and con		are that we will,	if awarded a cor	ntract, not engage in
		D 1 1				
	d)	and Asset Disposal.	nitment to the Code	of Ethics for Per	sons Participati	ng in Public Procure
	Furt		re have read and und	lerstood the full c	content and scop	e of fraud and corru
	Furt as ir	and Asset Disposal. her, we confirm that w	e have read and und 1 - Fraud and Con	lerstood the full c	content and scop ed to the Form o	e of fraud and corru
	Furt as ir Nan	and Asset Disposal. her, we confirm that was formed in "Appendix"	te have read and und 1 - Fraud and Con [insert complete nam authorized to sign	derstood the full caruption" attached the of person sign the Tender on b	content and scoped to the Form o	be of fraud and corruge f Tender.
	Furt as ir Nan Nan	and Asset Disposal. her, we confirm that w aformed in "Appendix ne of the Tenderer: * ne of the person duly	te have read and und 1 - Fraud and Con [insert complete nan authorized to sign rized to sign the Ten	derstood the full or ruption" attaches ne of person sign the Tender on bander]	content and scoped to the Form o ing the Tender] ehalf of the Ten	oe of fraud and corruj f Tender. nderer: **[insert con
	Furt as ir Nam Nam nam	and Asset Disposal. her, we confirm that was aformed in "Appendix ne of the Tenderer: * ne of the person duly authore of the person signin nature of the person in	te have read and und a 1 - Fraud and Consider to sign the Tender: [inserting the Tender: [i	derstood the full corruption" attached the of person sign the Tender on bonder]	content and scoped to the Form of the Tender] of the person signature.	ne of fraud and corrupt for Tender. Inderer: **[insert containing the Tender]
	Furt as ir Nam Nam nam Title Sigrabor	and Asset Disposal. her, we confirm that was aformed in "Appendix ne of the Tenderer: * ne of the person duly authore of the person signin nature of the person in	te have read and und 1 - Fraud and Con [insert complete nam authorized to sign rized to sign the Ten g the Tender: [insert named above: [insert	derstood the full of truption" attaches the of person sign the Tender on bunder] rt complete title of the true of person the true of person the true of person the true of true of the true of true o	content and scoped to the Form of the Tender] chalf of the Tender of the person signs on whose name	ne of fraud and corrupt for Tender. Inderer: **[insert containing the Tender]

^{*} In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer. **Person signing the Tender shall have the power of attorney given by the Tenderer to be attached with the Tender.

FORM OF ALTERNATIVE TENDER (ALTERNATIVE TECHNOLOGY) - N/A

INSTRUCTIONS TO TENDERERS

- i)The Tenderers who wish to offer Alternative Tender shall complete this Form of Alternative Tender (Alternative Technology). Tenderers who fill this Form of Alternative tender and does not complete Form No. 6: Form of Tender shall be disqualified.
- The Tenderer must prepare this Form of Alternative Tender Alternative Technology on stationery with ii) its letterhead clearly showing the Tenderer's complete name and business address.
- Alternative Tender shall be prepared in accordance with TDS ITT 13.1 13.4 iii)
- All italicized text is to help the Tenderer in preparing this form. iv)
- The Tenderer must prepare this Form of Tender on stationery with its letterhead clearly showing the v) Tenderer's complete name and business address. Tenderers are reminded that this is a mandatory requirement.
- Tenderer must complete and sign CERTIFICATE OF INDEPENDENT TENDER DETERMINATION and vi) the SELF DECLARATION FORMS OF THE TENDERER as listed under (xxii) below.

Dat	te of this Tender submission:[insert date (as day, month and year) of Tender submission] Tender
Nai	me and Identification:[insert identification] Alternative
No.	
То:	
for	te of this Tender submission: [insert date (as day, month and year) of Tender submission] Request Tender No.: [insert identification] Name and description of Tender [Insert as per ITT) Alternative No.: sert identification No if this is a Tender for an alternative]
To:	: [insert complete name of Procuring Entity]
Dea	ar Sirs,
1.	In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above named Works, we, the undersigned offer to construct and complete the Works and remedy any defects therein for the sum ⁵ of Kenya Shillings [[Amount in figures] Kenya Shillings [amount in words]
	The above amount includes foreign currency ⁶ amount (s) of [state figure or a percentage and currency] [figures][words]
2.	We undertake, if our tender is accepted, to commence the Works as soon as is reasonably possible after the receipt of the Architect notice to commence, and to complete the whole of the Works comprised in the Contract within the time stated in the Special Conditions of Contract.
3.	We agree to adhere by this tender until[Insert date], and it shall remain binding upon us and may be accepted at any time before that date.
4.	We understand that you are not bound to accept the lowest or any tender you may receive.

⁵ This sum should be carried forward from the Summary of the Bills of Quantities.

⁶ The percentage quoted above should not include provisional sums, and not more than two foreign currencies are allowed.

- 5. We, the undersigned, further declare that:
 - i) <u>No reservations</u>: We have examined and have no reservations to the tender document, including Addenda issued in accordance with ITT 28;
 - ii) <u>Eligibility:</u> We meet the eligibility requirements and have no conflict of interest in accordance with ITT 3 and 4;
 - iii) <u>Tender Securing Declaration</u>: We have not been suspended nor declared ineligible by the Procuring Entity based on execution of a Tender-Securing or Proposal-Securing Declaration in the Procuring Entity's Country in accordance with ITT 19.8;
 - *iv)* Conformity: We offer to execute in conformity with the tendering documents and in accordance with the implementation and completion specified in the construction schedule, the following Works: [insert a brief description of the Works];
 - v) <u>Tender Price:</u> The total price of our Tender, excluding any discounts offered in item 1 above is: [Insert one of the options below as appropriate]
 - vi Option 1, incase of one lot: Total price is: [insert the total price of the Tender in words and figures, indicating the various amounts and the respective currencies]; or

Option2, in case of multiple lots:

- (c) <u>Total price of each lot</u> [insert the total price of each lot in words and figures, indicating the various amounts and the respective currencies]; and
- (d) <u>Total price of all lots</u> (sum of all lots) [insert the total price of all lots in words and figures, indicating the various amounts and the respective currencies];
- xxiii) <u>Discounts:</u> The discounts offered and the methodology for their application are:
- xxiv)The discounts offered are: [Specify in detail each discount offered.]
- xxv) The exact method of calculations to determine the net price after application of discounts is shown below: [Specify in detail the method that shall be used to apply the discounts];
- xxvi) <u>Tender Validity Period</u>: Our Tender shall be valid for the period specified in TDS 18.1 (as amended, if applicable) from the date fixed for the Tender submission deadline specified in TDS 22.1 (as amended, if applicable), and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- xxvii) <u>Performance Security:</u> If our Tender is accepted, we commit to obtain a Performance Security in accordance with the Tendering document;
- xxviii) One Tender Per Tender: We are not submitting any other Tender(s) as an individual Tender, and we are not participating in any other Tender(s) as a Joint Venture member or as a sub-contractor, and meet the requirements of ITT 3.4, other than alternative Tenders submitted in accordance with ITT 13.3;
- xxix) <u>Suspension and Debarment</u>: We, along with any of our subcontractors, suppliers, Engineer, manufacturers, or service providers for any part of the contract, are not subject to, and not controlled by any entity or individual that is subject to, a temporary suspension or a debarment imposed by the Public Procurement Regulatory Authority or any other entity of the Government of Kenya, or any international organization.
- xxx) <u>State-owned enterprise or institution:</u> [select the appropriate option and delete the other] [We are not a state-owned enterprise or institution]/[We are a state-owned enterprise or institution but meet the requirements of ITT3.8];
- xxxi) Commissions, gratuities, fees: We have paid, or will pay the following commissions, gratuities, or fees with respect to the tender process or execution of the Contract: [insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity].

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate "none.")

- xxxii) <u>Binding Contract:</u> We understand that this Tender, together with your written acceptance there of included in your Letter of Acceptance, shall constitute a binding contract between us, until a formal contract is prepared and executed;
- xxxiii) Not Bound to Accept: We understand that you are not bound to accept the lowest evaluated cost Tender, the Most Advantageous Tender or any other Tender that you may receive;
- xxxiv) <u>Fraud and Corruption:</u> We here by certify that we have taken steps to ensure that no personacting for us or on our behalf engages in any type of Fraud and Corruption; and
- xxxv) <u>Collusive practices:</u> We hereby certify and confirm that the tender is genuine, non-collusive and made with the intention of accepting the contract if awarded. To this effect we have signed the "Certificate of Independent Tender Determination" attached below.
- xxxvi) We <u>undertake</u> to adhere by the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal, copy available from (*specify website*) during the procurement process and the execution of any resulting contract.
- xxxvii) **Beneficial Ownership Information:** We commit to provide to the procuring entity the Beneficial Ownership Information in conformity with the Beneficial Ownership Disclosure Form upon receipt of notification of intention to enter into a contract in the event we are the successful tenderer in this subject procurement proceeding.
- xxxviii) We, the Tenderer, have duly completed, signed and stamped the following Forms as part of our Tender:
 - a) Tenderer's Eligibility; Confidential Business Questionnaire to establish we are no tin any conflict to interest.
 - (b) Certificate of Independent Tender Determination to declare that we completed the tender without colluding with other tenderers.
 - (a) Self-Declaration of the Tenderer to declare that we will, if awarded a contract, not engage in any form of fraud and corruption.
 - (d) Declaration and commitment to the Code of Ethics for Persons Participating in Public Procurement and Asset Disposal.

Further, we confirm that we have read and understood the full content and scope of fraud and corruption as informed in "Appendix 1 - Fraud and Corruption" attached to the Form of Tender.

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

Name of the person duly authorized to sign the Tender on behalf of the Tenderer: **[insert complete name of person duly authorized to sign the Tender]

Title of the person signing the Tender: [insert complete title of the person signing the Tender]

Signature of the person named above: [insert signature of person whose name and capacity are shown above]

Date signed [insert date of	f signing] day of [insert month], [insert year]	
Date signed	_day of	,
Notes	•	

^{*} In the case of the Tender submitted by joint venture specify the name of the Joint Venture as Tenderer.

**Person signing the Tender shall have the power of attorney given by the Tenderer to be attached with the Tender.

(a) TENDERER'S ELIGIBILITY- CONFIDENTIAL BUSINESS QUESTIONNAIRE

Instruction to Tenderer

Tender is in structed to complete the particulars required in this Form, *one form for each entity if Tender is a JV*. Tenderer is further reminded that it is an offence to give false information on this Form.

(a) Tenderer's details

	ITEM	DESCRIPTION
1	Name of the Procuring Entity	
2	Reference Number of the Tender	
3	Date and Time of Tender Opening	
4	Name of the Tenderer	
5	Full Address and Contact Details of the Tenderer.	 Country City Location Building Floor Postal Address Name and email of contact person.
6	Current Trade License Registration Number and Expiring date	
7	Name, country and full address (postal and physical addresses, email, and telephone number) of Registering Body/Agency	
8	Description of Nature of Business	
9	Maximum value of business which the Tenderer handles.	
10	State if Tenders Company is listed in stock exchange, give name and full address (postal and physical addresses, email, and telephone number) of	

General and Specific Details

(b) Sole Proprietor, provide the following deta	ails.
Name in full	Age _Country of Origin
Citizenship	

(c) Partnership, provide the following details.

	Names of Partners	Nationality	Citizenship	% Shares owned
1				
2				
3				

(d)	Registered Company, provide the following details.	
	I)	Private or public Company
		Page 68 of 158

	Nominal Kenya Shillings (Equival Issued Kenya Shillings (Equivaler				
	iii) Give details of Directors as	•			
	Names of Director Nat	ionality	Citizens	hin	% Shares owned
1	Traines of Director	2011tilley	Citizens	шр	70 Shares owned
2					
3					
(e)	i) Are there any person/persons interest or relationship in this	s ins firm? Yes/No	(Na	ame of Proc	
	If yes, provide details as follows:	T	4h	Intono	at an Dalatianakin mith
	Names of Person	Designation i Procuring Er		Tende	est or Relationship with erer
1			J		
2					
3					
1	Type of Conflict Tondonomic directly on indirectly	Disclosure YES OR NO	Tendere		nils of the relationship with
1	Tenderer is directly or indirectly controls, is controlled by or is under				
	common control with another				
	tenderer.				
2	Tenderer receives or has received				
	any direct or indirect subsidy from				
	another tenderer.				
3	Tenderer has the same legal				
	representative as another tenderer				
4	Tender has a relationship with				
	another tenderer, directly or through common third parties, that puts it in a				
	position to influence the tender of				
	another tenderer, or influence the				
	decisions of the Procuring Entity				
	regarding this tendering process.				
5	Any of the Tenderer's affiliates				
	participated as a consultant in the				
	preparation of the design or technical specifications of the works that are				
	the subject of the tender.				
6	Tenderer would be providing goods,				
	works, non-consulting services or				
	consulting services during				
	implementation of the contract				
7	specified in this Tender Document.		1		
7	Tenderer has a close business or				
	family relationship with a professional staff of the Procuring				
	professional start of the Froculing	1	ĺ		

State the nominal and issued capital of the Company_

ii)

Entity who are directly or indirectly involved in the preparation of the

	Type of Conflict	Disclosure	If YES provide details of the relationship with
		YES OR NO	Tenderer
	Tender document or specifications		
	of the Contract, and/or the Tender		
	evaluation process of such contract.		
8	Tenderer has a close business or		
	family relationship with a		
	professional staff of the Procuring		
	Entity who would be involved in		
	the implementation or supervision		
	of the such Contract.		
9	Has the conflict stemming from		
	such relationship stated in item 7		
	and 8 above been resolved in a		
	manner acceptable to the Procuring		
	Entity throughout the tendering		
	process and execution of the		
	Contract.		

Certification

On behalf of the Tenderer, I certify that the information given above submission.	e is complete, current and accurate as at t	the date of
Full Name		
Titleor Designation		
(Signature)	(Date)	

a) <u>CERTIFICATE OF INDEPENDENT TENDER DETERMINATION</u>

I, t	he ur	ndersigned, in submitting the accompanying Letter of Tender to the
ros	nonc	
ma	ke th	e to the request for tenders made by:[Name of Tenderer] do hereby the following statements that I certify to be true and complete in every respect:
I ce	ertify	y, on behalf of[NameofTenderer]that:
1.	I ha	ave read and I understand the contents of this Certificate;
2.		nderstand that the Tender will be disqualified if this Certificate is found not to be true and complete in every pect;
3.		m the authorized representative of the Tenderer with authority to sign this Certificate, and to submit the nder on behalf of the Tenderer;
4.		the purposes of this Certificate and the Tender, I understand that the word "competitor" shall include any lividual or organization, other than the Tenderer, whether or not affiliated with the Tenderer, who:
	a) b)	Has been requested to submit a Tender in response to this request for tenders; could potentially submit a tender in response to this request for tenders, based on their qualifications, abilities or experience;
5.	The	e Tenderer discloses that [check one of the following, as applicable]:
	a)	The Tenderer has arrived at the Tender independently from, and without consultation, communication, agreement or arrangement with, any competitor;
	b)	The Tenderer has entered into consultations, communications, agreements or arrangements with one or more competitors regarding this request for tenders, and the Tenderer discloses, in the attached document(s), complete details thereof, including the names of the competitors and the nature of, and reasons for, such consultations, communications, agreements or arrangements;
6.		particular, without limiting the generality of paragraphs (5)(a) or(5)(b) above, there has been no isultation, communication, agreement or arrangement with any competitor regarding:
	a)b)c)d)	prices; methods, factors or formulas used to calculate prices; the intention r decision to submit, or not to submit, a tender; or the submission of a tender which does not meet the specifications of the request for Tenders; except as specifically disclosed pursuant tto paragraph (5)(b) above;
7.	reg req	addition, there has been no consultation, communication, agreement or arrangement with any competitor garding the quality, quantity, specifications or delivery particulars of the works or services to which this quest for tenders relates, except as specifically authorized by the procuring authority or as specifically closed pursuant to paragraph(5)(b) above;
8.	ind Co	te terms of the Tender have not been, and will not be, knowingly disclosed by the Tenderer, directly or directly, to any competitor, prior to the date and time of the official tender opening, or of the awarding of the intract, which ever comes first, unless otherwise required by law or as specifically disclosed pursuant to ragraph (5)(b) above.
Na Tit	me le	

[Name, title and signature of authorized agent of Tenderer and Date]

Date _

(c) SELF- DECLARATION FORMS

FORM SD1

SELF DECLARATION THAT THE PERSON/TENDERER IS NOT DEBARRED IN THE MATTER OF THE PUBLIC PROCUREMENT AND ASSET DISPOSAL ACT 2015.

I,	, of Post Office Box being a resident
	in the Republic of
	llows: -
1.	THAT I am the Company Secretary/ Chief Executive/Managing Director/Principal Officer/Direct or of
2.	THAT the aforesaid Bidder, its Directors and subcontractors have not been debarred from participating in procurement proceeding under Part IV of the Act.
3.	THAT what is deponed to here in above is true to the best of my knowledge, information and belief.
	(Title) (Signature) (Date)
	Bidder Official Stamp

FORM SD2

SELF DECLARATION THAT THE PERSON/TENDERER WILL NOT ENGAGE IN ANY CORRUPT OR FRAUDULENT PRACTICE.

• • •	
1.	THAT I am the Chief Executive/Managing Director/Principal Officer/Director of
2.	THAT theafore said Bidder, its servants and/oragents/subcontractorswillnotengageinanycorruptorfraudulent practice and has not been requested to pay any inducement to any member of the Board, Management, Staff and/or employees and/or agents of (insert name of the Procuring entity) which is the procuring entity.
3.	THAT the aforesaid Bidder, its servants and/or agents /subcontractors have not offered any inducement to any member of the Board, Management, Staff and/or employees and/or agents of
4.	THAT the aforesaid Bidder will not engage /has not engaged in any corrosive practice with other bidders participating in the subject tender
5.	THAT what is deponed to here in above is true to the best of my knowledge information and belief.
	(Title) (Signature) (Date)
	Bidder's Official Stamp

DECLARATION AND COMMITMENT TO THE CODE OF ETHICS

I
Public Procurement & Asset Disposal Act, 2015, Regulations and the Code of Ethics for persons participating in Public Procurementand Asset Disposal and my responsibilities under the Code.
I do here by commit to abide by the provisions of the Code of Ethics for persons participating in Public Procuremen and Asset Disposal.
Name of Authorized signatory
Sign
Position
Office address
E-mail
Name of the Firm/Company
Date
(Company Seal/ Rubber Stamp where applicable)
Witness
Name
Sign
Date

(d) APPENDIX 1 - FRAUD AND CORRUPTION

(Appendix 1 shall not be modified)

1. Purpose

1.1 The Government of Kenya's Anti-Corruption and Economic Crime laws and their sanction's policies and procedures, Public Procurement and Asset Disposal Act (no. 33 of 2015) and its Regulation, and any other Kenya's Acts or Regulations related to Fraud and Corruption, and similar offences, shall apply with respect to Public Procurement Processes and Contracts that are governed by the laws of Kenya.

2. Requirements

- 21 The Government of Kenya requires that all parties including Procuring Entities, Tenderers, (applicants/proposers), Consultants, Contractors and Suppliers; any Sub-contractors, Sub-consultants, Service providers or Suppliers; any Agents (whether declared or not); and any of their Personnel, involved and engaged in procurement under Kenya's Laws and Regulation, observe the highest standard of ethics during the procurement process, selection and contract execution of all contracts, and refrain from Fraud and Corruption and fully comply with Kenya's laws and Regulations as per paragraphs 1.1 above.
- 22 Kenya's public procurement and asset disposal act (*no. 33 of 2015*) under Section 66 describes rules to be followed and actions to be taken in dealing with Corrupt, Coercive, Obstructive, Collusive or Fraudulent practices, and Conflicts of Interest in procurement including consequences for offences committed. A few of the provisions noted below highlight Kenya's policy of no tolerance for such practices and behavior:
 - 1) A person to whom this Act applies shall not be involved in any corrupt, coercive, obstructive, collusive or fraudulent practice; or conflicts of interest in any procurement or as set disposal proceeding;
 - 2) A person referred to under subsection (1) who contravenes the provisions of that sub-section commits an offence;
 - 3) Without limiting the generality of the subsection (1) and (2), the person shall be:
 - a) disqualified from entering into a contract for a procurement or asset disposal proceeding; or
 - b) if a contract has already been entered into with the person, the contract shall be voidable;
 - 4) The voiding of a contract by the procuring entity under subsection (7) does not limit any legal remedy the procuring entity may have;
 - 5) An employee or agent of the procuring entity or a member of the Board or committee of the procuring entity who has a conflict of interest with respect to a procurement:
 - a) Shall not take part in the procurement proceedings;
 - b) shall not, after a procurement contract has been entered in to, take part in any decision relating to the procurement or contract; and
 - c) shall not be a subcontract or for the tender to whom was awarded contract, or a member of the group of tenderers to whom the contract was awarded, but the subcontractor appointed shall meet all the requirements of this Act.
 - 6) An employee, agent or member described in subsection (1) who refrains from doing anything prohibited under that subsection, but for that subsection, would have been within his or her duties shall disclose the conflict of interest to the procuring entity;
 - 7) If a person contravenes subsection (1) with respect to a conflict of interest described in subsection (5)(a) and the contract is awarded to the person or his relative or to another person in whom one of them had a direct or indirect pecuniary interest, the contract shall be terminated and all costs incurred by the public entity shall be made good by the awarding officer. Etc.
- 3. In compliance with Kenya's laws, regulations and policies mentioned above, the Procuring Entity:

- a) Defines broadly, for the purposes of the above provisions, the terms set forth below as follows:
 - i) "Corrupt practice" is the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - ii) "Fraudulent practice" is any act or omission, including is representation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain financial or other benefit or to avoid an obligation;
 - iii) "collusive practice "is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party; "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - iv) "Obstructive practice" is:
 - Deliberately destroying, falsifying, altering, or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede investigation by Public Procurement Regulatory Authority (PPRA) or any other appropriate authority appointed by Government of Kenya into allegations of a corrupt, fraudulent, coercive, or collusive practice; and/or threatening, harassing, or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
 - acts intended to materially impede the exercise of the PPRA's or the appointed authority's inspection and audit rights provided for under paragraph 2.3 e. below.
- b) Defines more specifically, in accordance with the above procurement Act provisions set forth for fraudulent and collusive practices as follows:
 - "Fraudulent practice" includes a misrepresentation of fact in order to influence a procurement or disposal processor the exercise of a contract to the detriment of the procuring entity or the tenderer or the contractor and includes collusive practices amongst tenderers prior to or after tender submission designed to establish tender prices at artificial non-competitive levels and to deprive the procuring entity of the benefits of free and open competition.
- c) Rejects a proposal for award of a contract if PPRA determines that the firm or individual recommended for award, any of its personnel, or its agents, or its sub-consultants, sub-contractors, service providers, suppliers and/ or their employees, has, directly or indirectly, engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices in competing for the contract in question;
- d) Pursuant to the Kenya's above stated Acts and Regulations, may recommend to appropriate authority(ies) for sanctioning and debarment of a firm or individual, as applicable under the Acts and Regulations;
- e) Requires that a clause be included in Tender documents and Request for Proposal documents requiring(i) Tenderers (applicants/proposers), Consultants, Contractors, and Suppliers, and their Sub-contractors, Sub-consultants, Service providers, Suppliers, Agents personnel, permit the PPRA or any other appropriate authority appointed by Government of Kenya to inspect² all accounts, records and other documents relating to the procurement process, selection and/or contract execution, and to have them audited by auditors appointed by the PPRA or any other appropriate authority appointed by Government of Kenya; and
- f) Pursuant to Section 62 of the above Act, requires Applicants/Tenderers to submit along with their Applications/Tenders/Proposals a "Self-Declaration Form" as included in the procurement document declaring that they and all parties involved in the procurement process and contract execution have not engaged/will not engage in any corrupt or fraudulent practices.

For the avoidance of doubt, a party's in eligibility to be awarded a contract shall includee, without limitation, (i) applying for pre-qualification, expressing interest in a consultancy, and tendering, either directly or as a nominated sub-contractor, nominated consultant, nominated manufacturer or supplier, or nominated service provider, in respect of such contract, and (ii) entering into an addendum or amendment introducing a material modification to any existing contract.

² Inspections in this context usually are investigative (i.e., forensic) in nature. They involve fact-finding activities undertaken by the Investigating Authority or persons appointed by the Procuring Entity to address specific matters related to investigations/audits, suc has evaluating the veracity of an allegation of possible Fraud and Corruption, through the appropriate mechanisms. Such activity includes but is not limited to: accessing and examining a firm's or individual's financial records and information, and making copies thereof as relevant; accessing and examining any other documents, data and information (whether in hard copyor electronic format) deemed relevant for th einvestigation/audit, and making copies there of as relevant; interviewing staff and other relevant individuals; performing physical inspections and site visits; and obtaining third party verification of information.

FORM OF TENDER SECURITY-[Option 1-Demand Bank Guarantee]

Bei	neficiary:
	quest for Tenders No:
Da	te:
TE	NDER GUARANTEE No.:
	arantor:
1.	We have been informed that(here in after called "the Applicant") has submitted or will submit to the Beneficiary its Tender (here in after called" the Tender") for the execution of("the ITT").
2.	Furthermore, we understand that, according to the Beneficiary's conditions, Tenders must be supported by a Tender guarantee.
3.	At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of() upon receipt by us of the Beneficiary's complying demand, supported by the Beneficiary's statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:
(a)	has withdrawn its Tender during the period of Tender validity set forth in the Applicant's Letter of Tender ("the Tender Validity Period"), or any extension thereto provided by the Applicant; or
b)	having been notified of the acceptance of its Tender by the Beneficiary during the Tender Validity Period or any extension there to provided by the Applicant, (i) has failed to execute the contract agreement, or (ii) has failed to furnish the Performance.
4.	This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our receipt of copies of the contract agreement signed by the Applicant and the Performance Security and, or (b) if the Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a copy of the Beneficiary's notification to the Applicant of the results of the Tendering process; or (ii) thirty days after the end of the Tender Validity Period.
5.	Consequently, any demand for payment under this guarantee must be received by us at the office indicated above onor before that date.
	[signature(s)]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

FORMAT OF TENDER SECURITY [Option 2–Insurance Guarantee]

TEN	DER GUARANTEE No.:	
1.	dated [Date of submission	enderer] (hereinafter called "the tenderer") has submitted its tende n of tender] for the
2.	Company] having our registered	e presents that WE
	Sealed with the Common Seal of	he said Guarantor thisday of 20
3.	NOW, THEREFORE, THE CON	DITION OF THIS OBLIGATION is such that if the Applicant:
		aring the period of Tender validity set forth in the Principal's Letter of ity Period"), or any extension thereto provided by the Principal; or
	Validity Period or any Contract agreement; or (ii	e acceptance of its Tender by the Procuring Entity during the Tende extension thereto provided by the Principal; (i) failed to execute the has failed to furnish the Performance Security, in accordance with the ITT") of the Procuring Entity's Tendering document.
	receipt of the Procuring Ent substantiate its demand, provide	immediately pay to the Procuring Entity up to the above amount upon ty's first written demand, without the Procuring Entity having to d that in its demand the Procuring Entity shall state that the demand the procuring which event(s) has occurred.
4. This guarantee will expire: (a) if the Applicant is the successful Tenderer, upon our record of the contract agreement signed by the Applicant and the Performance Security and, Applicant is not the successful Tenderer, upon the earlier of (i) our receipt of a Beneficiary's notification to the Applicant of the results of the Tendering process; or (stays after the end of the Tender Validity Period.		ed by the Applicant and the Performance Security and, or (b) if the all Tenderer, upon the earlier of (i) our receipt of a copy of the Applicant of the results of the Tendering process; or (ii)twenty-eigh
5.	Consequently, any demand for indicated above on or before th	payment under this guarantee must be received by us at the office at date.
	[Date]	[Signature of the Guarantor]
	[Witness]	[Seal]

Note: All italicized text is for use in preparing this form and shall be deleted from the final product.

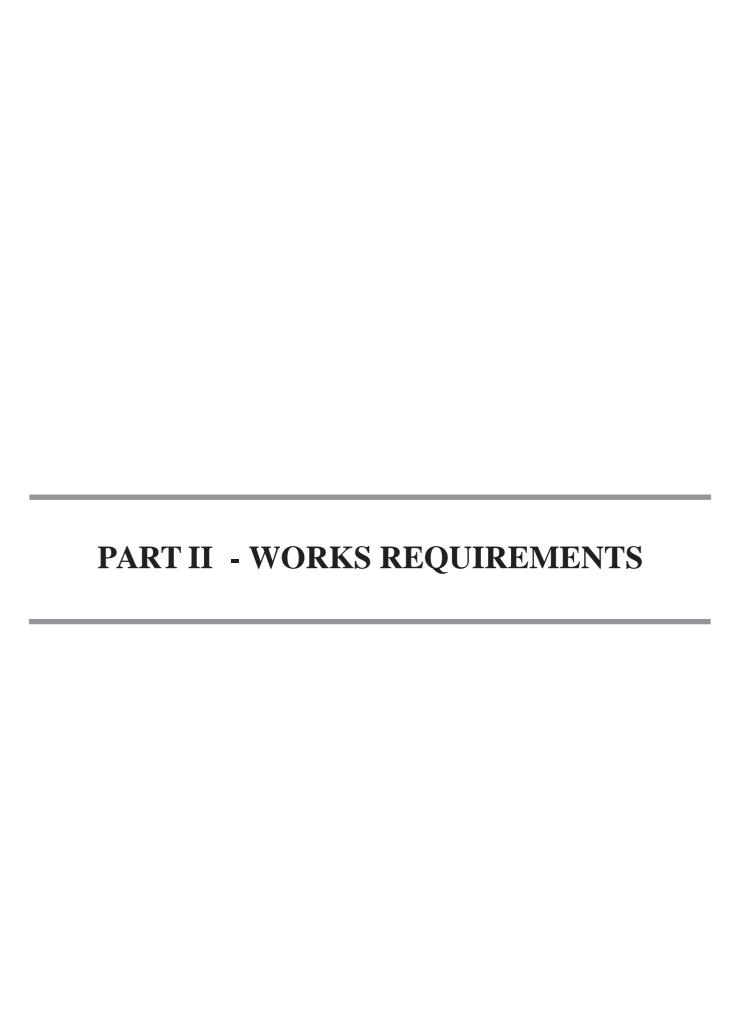
FORM OF TENDER - SECURING DECLARATION

[T	he Bidder shall complete this Form in accordance with the instructions indicated]
Da	te:[insert date (as day, month and year) of Tender Submission]
Teı	nder No.:[insert number of tendering process]
To	:
1.	I/We understand that, according to your conditions, bids must be supported by a Tender-Securing Declaration.
2.	I/We accept that I/we will automatically be suspended from being eligible for tendering in any contract with the Purchaser for the period of time of [insert number of months or years] starting on [insert date], if we are in breach of our obligation(s) under the bid conditions, because we—(a) have withdrawn our tender during the period of tender validity specified by us in the Tendering Data Sheet; or (b) having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the instructions to tenders.
3.	I/We understand that this Tender Securing Declaration shall expire if we are not the successful Tenderer(s), upon the earlier of: a) Our receipt of a copy of your notification of the name of the successful Tenderer; or b) thirty days after the expiration of our Tender.
4.	I/We understand that if I am /we are/ in a Joint Venture, the Tender Securing Declaration must be in the name of the Joint Venture that submits the bid, and the Joint Venture has not been legally constituted at the time of bidding, the Tender Securing Declaration shall be in the names of all future partners as named in the letter of intent.
Sig	ned:
pro	pprietor, etc.)
Na	me:
beł	nalf of: [insert complete name of Tenderer]
Da	ated on day of

Appendix to Tender

Schedule of Currency requirements

Summary of currencies of the Tender for[insert name of Section			
Name of currency	Amounts payable	7	
Local currency:			
Foreign currency #1:		1	
Foreign currency #2:		1	
Foreign currency #3:		1	
Provisional sums expressed in local currency	[To be entered by the Procuring Entity]		



SECTION V - BILLS OF QUANTITIES

Provided as an Annex

SECTION VI – SPECIFICATIONS

As detailed in the Bills of Quantities

SECTION VII – DRAWINGS

Provided as an Annex



SECTION VIII - GENERAL CONDITIONS OF CONTRACT (GCC)

STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

PROPOSED CONSTRUCTION OF SOCIAL HOUSING AND ASSOCIATED INFRASTRUCTURE IN KASARANI CONSTITUENCY, NAIROBI COUNTY – LOT 4

1. GENERALPROVISIONS

1.1 Definitions

In this Contract, except where context otherwise requires, the following terms shall be interpreted as indicated below. Words indicating persons or parties include corporations and other legal entities, except where the context requires otherwise.

- "Accepted Contract Amount" means the amount accepted in the Letter of Acceptance for the execution and completion of the Works and the remedying of any defects.
- "Base Date" means a date 30 day prior to the submission of tenders.
- "Bill of Quantities" means the priced and completed Bill of Quantities forming part of the tender.
- "Completion Date" means the date of completion of the Works as certified by the Engineer.
- "Contract Price" means the price defined in the contract and thereafter as adjusted in accordance with the provisions of the Contract.
- "Contract" means the agreement entered into between the Procuring Entity and the Contractor as recorded in the Agreement Form and signed by the parties including all attachments and appendices thereto and all documents incorporated by reference therein to execute, complete, and maintain the Works.
- "Contractor's Documents" means the calculations, computer programs and other software, progress reports, drawings, manuals, models and other documents of a technical nature (if any) supplied by the Contractor under the Contract.
- "Contractor's Equipment" means all apparatus, machinery, vehicles and other things required for the execution and completion of the Works and the remedying of any defects. However, Contractor's Equipment excludes Temporary Works, Procuring Entity's Equipment (if any), Plant, Materials and any other things intended to form or forming part of the Permanent Works.
- "Contractor's Personnel" means the Contractor's Representative and all personnel whom the Contractor utilizes on Site, who may include the staff, labor and other employees of the Contractor and of each Subcontractor; and any other personnel assisting the Contractor in the execution of the Works.
- "Contractor's Representative" means the person named by the Contractor in the Contractor appointed from time to time by the Contractor who acts on behalf of the Contractor.
- "Contractor" means the person(s) named as contractor in the Form of Tender accepted by the Procuring Entity.
- "Cost" means expenditure reasonably incurred (or to be incurred) by the Contractor, whether on or off the Site, including overhead and similar charges, but does not include profit.
- "Day" means a calendar day and "year" means 365 days.
- "Dayworks" means Work inputs subject to payment on a time basis for labour and the associated materials and plant.

- "Defect" means any part of the Works not completed in accordance with the Contract.
- "Defects Liability Certificate" means the certificate issued by Architect upon correction of defects by the Contractor.
- "Defects Liability Period" means the period named in the Special Conditions of Contract and calculated from the Completion Date, within which the contractor is liable for any defects that may develop in the handed over works.
- **"Defects Notification Period"** means the period for notifying defects in the Works or a Section (as the case may be) under Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects], which extends over the days stated in the Special Conditions of Contract.
- "Drawings" means the drawings of the Works, as included in the Contract, and any additional and modified drawings issued by (or on behalf of) the Procuring Entity in accordance with the Contract.
- **"Final Payment Certificate"** means the payment certificate issued under Sub-Clause 14.13 [Issue of Final Payment Certificate].
- "Final Statement" means the statement defined in Sub-Clause 14.11 [Application for final Payment Certificate].
- "Force Majeure" is defined in Clause19 [Force Majeure].
- **"Foreign Currency"** means a currency of another country (not Kenya) in which part (or all) of the Contract Price is payable, but not the Local Currency.
- "Goods" means Contractor's Equipment, Materials, Plant and Temporary Works, or any of them as appropriate.
- "Interim Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment], other than the Final Payment Certificate.
- "Laws" means all national legislation, statutes, ordinances, and regulations and by-laws of any legally constituted public authority.
- "Letter of Acceptance" means the letter of formal acceptance of a tender, signed by Procuring Entity, including any annexed memoranda comprising agreements between and signed by both Parties.
- "Local Currency" means the currency of Kenya.
- "Materials" means things of all kinds (other than Plant) intended to form or forming part of the Permanent Works, including the supply-only materials (if any) to be supplied by the Contractor under the Contract.
- "Notice of Dissatisfaction" means the notice given by either Party to the other under Sub-Clause 20.3 indicating its dissatisfaction and intention to commence arbitration.
- "Special Conditions of Contract" means the pages completed by the Procuring Entity entitled Special Conditions of Contract which constitute Part A of the Special Conditions.
- "Party" means the Procuring Entity or the Contractor, as the context requires.
- "Payment Certificate" means a payment certificate issued under Clause 14 [Contract Price and Payment].
- "Performance Certificate" means the certificate issued under Sub-Clause 11.9 [Performance Certificate].
- "Performance Security" means the security (or securities, if any) under Sub-Clause 4.2 [Performance Security].
- "Permanent Works" means the permanent works to be executed by the Contractor under the Contract.
- "Plant" means the apparatus, machinery and other equipment intended to form or forming part of the Permanent Works, including vehicles purchased for the Procuring Entity and relating to the construction or operation of the Works.
- "Procuring Entity's Equipment" means the apparatus, machinery and vehicles (if any) made available by the

- Procuring Entity for the use of the Contract or in the execution of the Works, as stated in the Specification; but does not include Plant which has not been taken over by the Procuring Entity.
- "Procuring Entity's Personnel" means the Engineer, the Engineer, the assistants and all other staff, labor and other employees of the Architect and of the Procuring Entity; and any other personnel notified to the Contractor, by the Procuring Entity or the Engineer, as Procuring Entity's Personnel.
- "Procuring Entity" means the Entity named in the Special Conditions of Contract.
- **"Engineer"** is the person named in the Appendix to Conditions of Contract (or any other competent person appointed by the Procuring Entity and notified to the Contractor, to act in replacement of the Engineer) who is responsible for supervising the execution of the Works and administering the Contract and shall be an "Architect" or a "Quantity Surveyor" registered under the Architects and Quantity Surveyors Act Cap 525 or an "Engineer" registered under Engineers Registration Act Cap 530.
- **"Engineer"** means the person appointed by the Procuring Entity to act as the Architect for the purposes of the Contract and named in the Special Conditions of Contract, or other person appointed from time to time by the Procuring Entity and notified to the Contractor
- **"Provisional Sum"** means a sum (if any) which is specified in the Contract as a provisional sum, for the execution of any part of the Works or for the supply of Plant, Materials or services under Sub-Clause 13.5 [Provisional Sums].
- "Retention Money" means the accumulated retention moneys which the Procuring Entity retains under Sub-Clause 14.3 [Application for Interim Payment Certificates] and pays under Sub-Clause 14.9 [Payment of Retention Money].
- "Schedules" means the document(s) entitled schedules, completed by the Contractor and submitted with the Form of Tender, as included in the Contract.
- "Section" means a part of the Works specified in the Special Conditions of Contract as a Section (if any)
- "Site Investigation Reports" are those reports that may be included in the tendering documents which a ref actual and interpretative about the surface and sub-surface condition sat the Site.
- "Site" means the places where the Permanent Works are to be executed, including storage and working areas, and to which Plant and Materials are to be delivered, and any other places as may be specified in the Contract as forming part of the Site.
- "Specification" means the document entitled specification, as included in the Contract, and any additions and modifications to the specification in accordance with the Contract. Such document specifies the Works.
- "Start Date" or "Commencement Date" is the latest date when the Contractor shall commence execution of the Works. It does not necessarily coincide with the Site possession date(s).
- "Statement" means a statement submitted by the Contractor as part of an application, under Clause 14 [Contract Price and Payment], for a payment certificate.
- "Subcontractor" means any person named in the Contract as a subcontractor, or any person appointed as a subcontractor, for a part of the Works.
- "Taking-Over Certificate" means a certificate issued under Clause 10 [Procuring Entity's Taking Over].
- "Temporary Works" means all temporary works of every kind (other than Contractor's Equipment) required on Site for the execution and completion of the Permanent Works and the remedying of any defects.
- "Temporary works" means works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.
- **"Tender"** means the Form of Tender and all other documents which the Contractor submitted with the Form of Tender, as included in the Contract.
- "Tests after Completion" means the tests (if any) which are specified in the Contract and which are carried out in

accordance with the Specification after the Works or a Section (as the case may be) are taken over by the Procuring Entity.

- "Tests on Completion" means the tests which are specified in the Contractor agreed by both Parties or instructed as a Variation, and which are carried out under Clause 9 [Tests on Completion] before the Works or a Section (as the case may be) are taken over by the Procuring Entity.
- "Time for Completion" means the time for completing the Works or a Section (as the case may be) as stated in the Special Conditions of Contract (with any extension calculated from the Commencement Date.
- "Unforeseeable" means not reasonably foreseeable by an experienced contractor by the Base Date.
- "Variation" means any change to the Works, which is instructed or approved as a variation under Clause 13 [Variations and Adjustments].
- "Works" means the items the Procuring Entity requires the Contractor to undertake as defined in the Appendix to Conditions of Contract. "Works" may also mean the Permanent Works and the Temporary Works, or either of them as appropriate.

1.2 Interpretation

In the Contract, except where the context requires otherwise:

- a) Words indicating one gender include all genders;
- b) words indicating the singular also include the plural and words indicating the plural also include the singular;
- c) provisions including the word "agree", "agreed" or "agreement" require the agreement to be recorded in writing;
- d) "written" or "in writing" means hand-written, type-written, printed or electronically made, and resulting in a permanent record; and

The marginal words and other headings shall not be taken into consideration in the interpretation of these Conditions.

1.3 Communications

- 1.3.1 Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests and discharges, these communications shall be:
 - a) In writing and delivered by hand (against receipt), sent by mail or courier, or transmitted using any of the agreed systems of electronic transmission as stated in the Special Conditions of Contract; and
 - b) delivered, sent or transmitted to the address for the recipient's communications as stated in the Special Conditions of Contract. However:
 - i) if the recipient gives notice of another address, communications shall thereafter be delivered accordingly; and
 - ii) if the recipient has not stated otherwise when requesting an approval or consent, it may be sent to the address from which the request was issued.
- 1.32 Approvals, certificates, consents and determinations shall not be unreasonably withheld or delayed. When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Engineer, a copy shall be sent to the Architect or the other Party, as the case may be.

1.4 Law and Language

- **1.4.1** The Contract shall be governed by the laws of **Kenya**.
- **1.4.2** The ruling language of the Contract shall be **English.**

1.5 Priority of Documents

The documents forming the Contract are to be taken as mutually explanatory of one another. For the purposes of interpretation, the priority of the documents shall be in accordance with the following sequence:

- a) The Contract Agreement,
- b) The Letter of Acceptance,
- c) The Special Conditions Part A,
- d) the Special Conditions Part B
- e) the General Conditions of Contract
- f) the Form of Tender,
- g) the Specifications and Bills of Quantities
- h) the Drawings, and
- i) the Schedules and any other documents forming part of the Contract.

If an ambiguity or discrepancy is found in the documents, the Architect shall issue any necessary clarification or instruction.

1.6 Contract Agreement

The Parties shall enter into a Contract Agreement within 14 days after the Contractor receives the Contract Agreement unless the Special Conditions establish otherwise. The Contract Agreement shall be based upon the formannexed to the Special Conditions. The costs of stamp duties and similar charges (if any) imposed by law in connection with entry into the Contract Agreement shall be borne by the Procuring Entity.

1.7 Assignment

The Contractor shall not assign the whole or any part of the Contract or any benefit or interest in or under the Contract. However, the contractor:

- a) May as sign the whole or any part with the prior consent of the Procuring Entity, and
- b) may, as security in favor of a bank or financial institution, assign its right to moneys due, or to become due, under the Contract.

1.8 Care and Supply of Documents

- 1.8.1 The Specifications and Drawings shall be in the custody and care of the Procuring Entity. Unless otherwise stated in the Contract, two copies of the Contract and of each subsequent Drawings and Bills of Quantities shall be supplied to the Contractor, who may make or request further copies at the cost of the Contractor.
- 1.82 Each of the Contractor's Documents shall be in the custody and care of the Contractor, unless and until taken over bythe Procuring Entity. Unless otherwise stated in the Contract, the Contractor shall supply to the Architect two copies of each of the Contractor's Documents.
- 1.83 The Contractor shall keep on the Site, a copy of the Contract, publications named in the Specification, the Contractor's Documents (if any), the Drawings and Variations and other communications given under the Contract. The Procuring Entity's Personnel shall have the right of access to all these documents at all reasonable times.
- 1.84 If a Party becomes aware of an error or defect in a document which was prepared for use in executing the Works, the Party shall promptly give notice to the other Party of such error or defect.

1.9 Timely provision of Drawings or Instructions

- 1.9.1 The Contractor shall give notice to the Architect whenever the Works are likely to be delayed or disrupted if any necessary drawing or instruction is not issued to the Contractor within a particular time, which shall be reasonable. The notice shall include details of the necessary drawing or instruction, details of why and by when it should be issued, and the nature and amount of the delay or disruption likely to be suffered if it is late.
- 1.92 If the Contractor suffers delay and/or incurs Cost as a result of a failure of the Architect to issue the notified drawing or instruction within a time which is reasonable and is specified in the notice with supporting details, the Contractor shall give a further notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and

- b) payment of any other associated costs accrued, which shall be included in the Contract Price.
- 1.93 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- However, if and to the extent that the Architect failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the Contractor's Documents, the Contractor shall not be entitled to such extension of time, or costs accrued.

1.10 Procuring Entity's Use of Contractor's Documents

- 1.10.1 As agreed between the Parties, the Contractor shall retain the copyright and other intellectual property rights in the Contractor's Documents and other design documents made by (or on behalf of) the Contractor.
- 1.10.2 The Contractor shall be deemed (by signing the Contract) to give to the Procuring Entity a non-terminable transferable non-exclusive royalty-free license to copy, use and communicate the Contractor's Documents, including making and using modifications of them. This license shall:
 - a) apply throughout the actual or intended working life (whichever is longer) of the relevant parts of the Works,
 - b) entitle any person in proper possession of the relevant part of the Works to copy, use and communicate the Contractor's Documents for the purposes of completing, operating, maintaining, altering, adjusting, repairing and demolishing the Works, and
 - c) in the case of Contractor's Documents which are in the form of computer programs and other software, permit their use on any computer on the Site and other places as envisaged by the Contract, including replacements of any computers supplied by the Contractor.
- 1.10.3 The Contractor's Documents and other design documents made by (or on behalf of) the Contractor shall not, without the Contractor's consent, be used, copied or communicated to a third party by (or on behalf of) the Procuring Entity for purposes other than those permitted under Sub-Clause 1.10.2.

1.11 Contractor's Use of Procuring Entity's Documents

As agreed between the Parties, the Procuring Entity shall retain the copyright and other intellectual property rights in the Specification, the Drawings and other documents made by (or on behalf of) the Procuring Entity. The Contractor may, at his cost, copy, use, and obtain communication of these documents for the purposes of the Contract. They shall not, without the Procuring Entity's consent, be copied, used or communicated to a third party by the Contractor, except as necessary for the purposes of the Contract.

1.12 Confidential Details

- 1.12.1 The Contractor's and the Procuring Entity's Personnel shall ensure confidentiality at all times. The confidentiality shall survive termination or completion of the contract. They shall disclose all such confidential and other information as may be reasonably required in order to verify compliance with the Contract and allow its proper implementation.
- 1.122 The Contractor's and the Procuring Entity's Personnel shall also treat the details of the Contract as private and confidential, except to the extent necessary to carry out their respective obligations under the Contract or to comply with applicable Laws. Each of them shall not publish or disclose any particulars of the Works prepared by the other Party without the previous agreement of the other Party. However, the Contractor shall be permitted to disclose any publicly available information, or information otherwise required to establish his qualifications to compete for other projects.

1.13 Compliance with Laws

The Contractor shall, in performing the Contract, comply with applicable Laws. Unless otherwise stated in the Special Conditions of Contract:

a) The Procuring Entity shall have obtained (or shall obtain) the planning, zoning, building permit or similar permission for the Permanent Works, and any other permissions described in the Specifications as having been (or to be) obtained by the Procuring Entity; and the Procuring Entity shall indemnify and hold the Contractor harmless against and from the consequences of any failure to do so; and b) the Contractor shall give all notices, pay all taxes, duties and fees, and obtain all permits, licenses and approvals, as required by the Laws in relation to the execution and completion of the Works and the remedying of any defects; and the Contractor shall indemnify and hold the Procuring Entity harmless against and from the consequences of any failure to do so, unless the Contractor is impeded to accomplish these actions and shows evidence of its diligence.

1.14 Joint and Several Liability

If the Contractor constitutes (under applicable Laws) a joint venture, consortium or other unincorporated grouping of two or more persons:

- a) These persons shall be deemed to be jointly and severally liable to the Procuring Entity for the performance of the Contract;
- b) these persons shall notify the Procuring Entity of their leader who shall have authority to bind the Contractor and each of these persons; and
- c) the Contractor shall not alter its composition or legal status without the prior consent of the Procuring Entity.

1.15 Inspections and Audit by the Procuring Entity

Pursuant to paragraph 2.2(e). of Appendix B to the General Conditions, the Contractor shall permit and shall cause its subcontractors and sub-consultants to permit, the Public Procurement Regulatory Authority, Procuring Entity and/or persons appointed or designated by the Government of Kenya to inspect the Site and/or the accounts and records relating to the procurement process, selection and/or contract execution, and to have such accounts and records audited by auditors appointed by the Procuring Entity if requested by the Procuring Entity. The Contractor's and its Subcontractors' and sub-consultants' attention is drawn to Sub-Clause 15.6 (Fraud and Corruption) which provides, inter alia, that acts intended to materially impede the exercise of the Procuring Entity's inspection and audit rights constitute a prohibited practice subject to contract termination (as well as to a determination of in eligibility pursuant to the Procuring Entity's prevailing sanctions procedures).

2 THE PROCURING ENTITY

21 Right of Access to the Site

- 21.1 The Procuring Entity shall give the Contractor right of access to, and possession of, all parts of the Site within the time (or times) stated in the **Special Conditions of Contract.** The right and possession may not be exclusive to the Contractor. If, under the Contract, the Procuring Entity is required to give (to the Contractor) possession of any 1 foundation, structure, plant or means of access, the Procuring Entity shall do so in the time and manner stated in the Specification. However, the Procuring Entity may withhold any such right or possession until the Performance Security has been received.
- If no such time is stated in the Special Conditions of Contract, the Procuring Entity shall give the Contractor right of access to, and possession of, the Site within such times as required to enable the Contractor to proceed without disruption in accordance with the programme submitted under Sub-Clause 8.3 [Programme].
- If the Contractor suffers delay and/or incurs Cost as a result of a failure by the Procuring Entity to give any such right or possession within such time, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- However, if and to the extent that the Procuring Entity's failure was caused by any error or delay by the Contractor, including an error in, or delay in the submission of, any of the Contractor's Documents, the Contractor shall not be entitled to such extension of time, Cost or profit.

22 Permits, Licenses or Approvals

- The Procuring Entity shall provide, at the request of the Contractor, such reasonable assistance as to allow the Contractor to obtain properly:
 - a) Copies of the Laws of Kenya which are relevant to the Contract but are not readily available, and
 - b) any permits, licenses or approvals required by the Laws of Kenya:
 - i) which the Contractor is required to obtain under Sub-Clause 1.13 [Compliance with Laws],
 - ii) for the delivery of Goods, including clearance through customs, and
 - iii) for the export of Contractor's Equipment when it is removed from the Site.

23 Procuring Entity's Personnel

The Procuring Entity shall be responsible for ensuring that the Procuring Entity's Personnel and the Procuring Entity's other contractors on the Site:

- a) co-operate with the Contractor's efforts under Sub-Clause 4.6 [Co-operation], and
- b) take actions similar to those which the Contractor is required to take under sub-paragraphs (a), (b) and (c) of Sub-Clause 4.8 [Safety Procedures] and under Sub-Clause 4.18 [Protection of the Environment].

24 Procuring Entity's Financial Arrangements

The Procuring Entity shall make and maintain all necessary financial arrangements which will enable the Procuring Entity to pay the Contract Price punctually (as estimated at that time) in accordance with Clause14 [Contract Price and Payment].

3 THE ENGINEER

3.1 Architect Duties and Authority

- 31.1 The Procuring Entity shall appoint the Architect who shall carry out the duties as signed to him in the Contract. The Architect staff shall include suitably qualified Assistants and other professionals who are competent to carry out these duties. The Architect Name and Address shall be provided in the **Special Conditions of Contract.**
- 3.12 The Architect shall have no authority to amend the Contract.
- 3.13 The Architect May exercise the authority attributable to the Architect as specified in or necessarily to be implied from the Contract. If the Architect is required to obtain the approval of the Procuring Entity before exercising a specified authority, the requirements shall be as stated in the Special Conditions of Contract. The Procuring Entity shall promptly inform the Contractor of any change to the authority attributed to the Engineer.
- 3.1.4 However, whenever the Architect exercises a specified authority for which the Procuring Entity's approval is required, then (for the purposes of the Contract) the contractor shall require the Architect to provide evidence of such approval before complying with the instruction.
- 3.15 Except as otherwise stated in these Conditions:
 - a) Whenever carrying out duties or exercising authority, specified in or implied by the Contract, the Architect shall be deemed to act for the Procuring Entity;
 - b) the Architect has no authority to relieve either Party of any duties, obligations or responsibilities under the Contract;
 - c) any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by the Architect (including absence of disapproval) shall not relieve the Contractor from any responsibility he has under the Contract, including responsibility for errors, omissions, discrepancies and non-compliances; and
 - d) any act by the Architect in response to a Contractor's request shall be notified in writing to the Contractor within 14 days of receipt.

3.1.6 The following provisions shall apply:

The Architect shall obtain the specific approval of the Procuring Entity before taking action under thefollowing Sub-Clauses of these Conditions:

- a) Sub-Clause 4.12: agreeing or determining an extension of time and/or additional cost.
- b) Sub-Clause 13.1: instructing a Variation, except;
 - i) In an emergency situation as determined by the Engineer, or
 - ii) If such a Variation would increase the Accepted Contract Amount by less than the percentage specified in the **Special Conditions of Contract.**
- c) Sub-Clause 13.3: Approving a proposal for Variation submitted by the Contractor in accordance with Sub Clause 13.1 or 13.2.
- d) Sub-Clause 13.4: Specifying the amount payable in each of the applicable three currencies.
- 3.1.7 Notwithstanding the obligation, as set out above, to obtain approval, if, in the opinion of the Engineer, an emergency occurs affecting the safety of life or of the Works or of adjoining property, he may, without relieving the Contractor of any of his duties and responsibility under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forth with comply, despite the absence of approval of the Procuring Entity, with any such instruction of the Engineer. The Architect shall determine an addition to the Contractor Price, in respect of such instruction, in accordance with Clause 13 and shall notify the Contractor accordingly, with a copy to the Procuring Entity.

32 Delegation by the Engineer

- 32.1 The Architect may from time to time assign duties and delegate authority to assistants and may also revoke such assignment or delegation. These assistants may include a resident Engineer, and/or independent inspectors appointed to inspect and/ or test items of Plant and/or Materials. The assignment, delegation or revocation shall be in writing and shall not take effect until copies have been received by both Parties. However, unless otherwise agreed by both Parties, the Architect shall not delegate the authority to determine any matter in accordance with Sub-Clause 3.5 [Determinations].
- Each assistant, to whom duties have been assigned or authority has been delegated, shall only be authorized to issue instructions to the Contractor to the extent defined by the delegation. Any approval, check, certificate, consent, examination, inspection, instruction, notice, proposal, request, test, or similar act by an assistant, in accordance with the delegation, shall have the same effect as though the act had been an act of the Engineer. However:
 - a) Any failure to disapprove any work, Plant or Materials shall not constitute approval, and shall therefore not prejudice the right of the Architect to reject the work, Plant or Materials;
 - b) If the Contractor questions any determination or instruction of an assistant, the Contractor may refer the matter to the Engineer, who shall promptly confirm, reverse or vary the determination or instruction.

33 Instructions of the Engineer

- 33.1 The Architect may issue to the Contractor (at any time) instructions and additional or modified Drawings which may be necessary for the execution of the Works and the remedying of any defects, all in accordance with the Contract. The Contractor shall only take instructions from the Engineer, or from an assistant to whom the appropriate authority has been delegated under Clause 3.2.1.
- The Contractor shall comply with the instructions given by the Architect or delegated assistant, on any matter related to the Contract. Whenever practicable, their instructions shall be given in writing. If the Architect or a delegated assistant:
 - a) Gives an oral instruction,
 - b) receives a written confirmation of the instruction, from (or on behalf of) the Contractor, within two working days after giving the instruction, and

c) does not reply by issuing a written rejection and/or instruction within two working days after receiving the confirmation,

Then the confirmation shall constitute the written instruction of the Architect or delegated assistant (as the case may be).

3.4 Replacement of the Engineer

If the Procuring Entity intends to replace the Engineer, the Procuring Entity shall, in not less than 21 days before the intended date of replacement, give notice to the Contractor of the name, address and relevant experience of the intended person to replace the Engineer.

35 Determinations

- 35.1 Whenever these Conditions provide that the Architect shall proceed in accordance with this Sub-Clause 3.5 to agree or determine any matter, the Architect shall consult with each Party in an endeavor to reach agreement. If agreement is not achieved, the Architect shall make a fair determination in accordance with the Contract, taking due regard of all relevant circumstances.
- 3.5.1 The Architect shall give notice to both Parties of each agree mentor determination, with supporting particulars, within 30 days from the receipt of the corresponding claim or request except when otherwise specified. Each Party shall give effect to each agreement or determination unless and until revised under Clause 20 [Claims, Disputes and Arbitration].

4. THE CONTRACTOR

4.1 Contractor's General Obligations

- 4.1.1 The Contractor shall design (to the extent specified in the Contract), execute and complete the Works in accordance with the Contract and with the Architect instructions, ands hall remedy any defects in the Works.
- 4.12 The Contractor shall provide the Plant and Contractor's Documents specified in the Contract, and all Contractor's Personnel, Goods, consumables and other things and services, whether of a temporary or permanent nature, required in and for this design, execution, completion and remedying of defects.
- 4.13 All equipment, material, and services to be incorporated in or required for the Works shall have their origin in any eligible source country.
- 4.14 The Contractor shall be responsible for the adequacy, stability and safety of all Site operations and of all methods of construction. Except to the extent specified in the Contract, the Contractor (i) shall be responsible for all Contractor's Documents, Temporary Works, and such design of each item of Plant and Materials as is required for the item to be in accordance with the Contract, and (ii) shall not otherwise be responsible for the design or specification of the Permanent Works.
- 4.15 The Contractor shall, whenever required by the Engineer, submit details of the arrangements and methods which the Contractor proposes to adopt for the execution of the Works. No significant alteration to these arrangements and methods shall be made without this having previously been notified to the Engineer.
- 4.1.6 If the Contract specifies that the Contractor shall design any part of the Permanent Works, then unless otherwise stated in the Special Conditions:
 - a) The Contractor shall submit to the Architect the Contractor's Documents for this part in accordance with the procedures specified in the Contract;
 - b) these Contractor's Documents shall be in accordance with the Specification and Drawings, shall be written in the language for communications defined in Sub-Clause 1.4 [Law and Language], and shall include additional information required by the Architect to add to the Drawings for co-ordination of each Party's designs;
 - c) the Contractor shall be responsible for this part and it shall, when the Works are completed, befit for such purposes for which the part is intended as are specified in the Contract; and
 - d) prior to the commencement of the Tests on Completion, the Contractor shall submit to the Architect the "as-built" documents and, if applicable, operation and maintenance manuals in accordance with the Specification and in sufficient detail for the Procuring Entity to operate, maintain, dismantle, reassemble, adjust and repair this part of the Works. Such part shall not be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections] until

these documents and manuals have been submitted to the Engineer.

42 Performance Security

- The Contractor shall obtain (at his cost) a Performance Security for proper performance, in the amount stated in the **Special Conditions of Contract** and denominated in the currency (ies) of the Contract or in a freely convertible currency acceptable to the Procuring Entity. If an amount is not stated in the Special Conditions of Contract, this Sub-Clause shall not apply.
- The Contractor shall deliver the Performance Security to the Procuring Entity within 30 days after receiving the Notification of Award and shall send a copy to the Engineer. The Performance Security shall be issued by a reputable bank selected by the Contractor and shall be in the form annexed to the Special Conditions, as stipulated by the Procuring Entity in the Special Conditions of Contract, or in another form approved by the Procuring Entity.
- 423 The Contractor shall ensure that the Performance Security is valid and enforceable until the Contractor has executed and completed the Works and remedied any defects. If the terms of the Performance Security specify its expiry date, and the Contractor has not become entitled to receive the Performance Certificate by the date 30 days prior to the expiry date, the Contractor shall extend the validity of the Performance Security until the Works have been completed and any defects have been remedied.
- The Procuring Entity shall not make a claim under the Performance Security, except for amounts to which the Procuring Entity is entitled under the Contract.
- The Procuring Entity shall indemnify and hold the Contractor harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from a claim under the Performance Security to the extent to which the Procuring Entity was not entitled to make the claim.
- The Procuring Entity shall return the Performance Security to the Contractor within 14 days after receiving a copy of the Taking-Over Certificate.
- Without limitation to the provisions of the rest of this Sub-Clause, whenever the Architect determines an addition or a reduction to the Contract Price as a result of a change in cost and/ or legislation, or as a result of a Variation, amounting to more than 25 percent of the portion of the Contract Price payable in a specific currency, the Contractor shall at the Architect request promptly increase, or may decrease, as the case may be, the value of the Performance Security in that currency by an equal percentage.

43 Contractor's Representative

- 43.1 The Contractor shall appoint the Contractor's Representative and shall give him all authority necessary to act on the Contractor's behalf under the Contract. The Contractor's Representative's Name and Address shall be provided in the **Special Conditions of Contract.**
- Unless the Contractor's Representative **is named in the Contract**, the Contractor shall, prior to the Commencement Date, submit to the Architect for consent the name and particulars of the person the Contractor proposes to appoint as Contractor's Representative. If consent is withheld or subsequently revoked in terms of Sub-Clause 6.9 [Contractor's Personnel], or if the appointed person fails to act as Contractor's Representative, the Contractor shall similarly submit the name and particulars of another suitable person for such appointment.
- The Contractor shall not, without the prior consent of the Engineer, revoke the appointment of the Contractor's Representative or appoint are placement.
- 434 The whole time of the Contractor's Representative shall be given to directing the Contractor's performance of the Contract. If the Contractor's Representative is to be temporarily absent from the Site during the execution of the Works, a suitable replacement person shall be appointed, subject to the Architect prior consent, and the Architect shall be notified accordingly.
- The Contractor's Representative shall, on behalf of the Contractor, receive instructions under Sub-Clause 3.3 [Instructions of the Engineer].
- 43.6 The Contractor's Representative may delegate any powers, functions and authority to any competent person, and may at any time revoke the delegation. Any delegation or revocation shall not take effect until the Architect has received prior notice signed by the Contractor's Representative, naming the person and specifying the powers, functions and authority being delegated or revoked.

43.7 The Contractor's Representative shall be fluent in the language for communications defined in Sub-Clause 1.4 [Law and Language]. If the Contractor's Representative's delegates are not fluent in the said language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.

4.4 Sub-contractors

- 4.4.1 The Contractor shall not subcontract the whole of the Works. The contractor may however subcontract the works as provided in Clause 34.2.
- The Contractor shall be responsible for the acts or defaults of any Subcontractor, his agents or employees, as if they were the acts or defaults of the Contractor. Unless otherwise stated in the Special Conditions:
 - a) The Contractor shall not be required to obtain consent to suppliers solely of Materials, or to a subcontract for which the Subcontractor is named in the Contract;
 - b) The prior consent of the Procuring Entity shall be obtained to other proposed Subcontractors;
 - c) the Contractor shall give the Procuring Entity not less than 14 days' notice of the intended date of the commencement of each Subcontractor's work, and of the commencement of such work on the Site; and
 - d) each subcontract shall include provisions which would entitle the Procuring Entity to require the subcontract to be assigned to the Procuring Entity under Sub-Clause 4.5 [Assignment of Benefit of Subcontract] (if or when applicable) or in the event of termination under Sub-Clause 15.2 [Termination by Procuring Entity].
- The Contractor shall ensure that the requirements imposed on the Contractor by Sub-Clause 1.12 [Confidential Details] apply equally to each Subcontractor.
- 4.4.4 Where practicable, the Contractor shall give fair and reasonable opportunity for contractors from Kenya to be appointed as Subcontractors.

45 Assignment of Benefit of Subcontract

If a Subcontractor's obligations extend beyond the expiry date of the relevant Defects Notification Period and the Engineer, prior to this date, instructs the Contractor to assign the benefit of such obligations to the Procuring Entity, then the Contractor shall do so. Unless otherwise stated in the assignment, the Contractor shall have no liability to the Procuring Entity for the work carried out by the Subcontractor after the assignment takes effect.

4.6 Co-operation

- 4.6.1 The Contractor shall, as specified in the Contract or as instructed by the Engineer, allow appropriate opportunities for carrying out work to:
 - a) The Procuring Entity's Personnel,
 - b) Any other contractors employed by the Procuring Entity, and
 - c) The personnel of any legally constituted public authorities, who may be employed in the execution on or near the Site of any work not included in the Contract.
- Any such instruction shall constitute a Variation if and to the extent that it causes the Contractor to suffer delays and/or to incur Unforeseeable Cost. Services for these personnel and other contractors may include the use of Contractor's Equipment, Temporary Works or access arrangements which are the responsibility of the Contractor.
- 463 If, under the Contract, the Procuring Entity is required to give to the Contractor possession of any foundation, structure, plant or means of access in accordance with Contractor's Documents, the Contractor shall submit such documents to the Architect in the time and manner stated in the Specification.

4.7 Setting Out of the Works

- 4.7.1 The Contractor shall set out the Works in relation to original points, lines and levels of reference specified in the Contractor notified by the Engineer. The Contractor shall be responsible for the correct positioning of all parts of the Works, and shall rectify any error in the positions, levels, dimensions or alignment of the Works.
- 4.72 The Procuring Entity shall be responsible for any errors in these specified or notified items of reference, but

the Contractor shall use reasonable efforts to verify their accuracy before they are used.

- 4.73 If the Contractor suffers delay and/or incurs Cost from executing work which was necessitated by an errorin these items of reference, and an experienced contractor could not reasonably have discovered such error and avoided this delay and/ or Cost, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such costs accrued, which shall be included in the Contract Price.
- 4.7.4 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) whether and (if so) to what extent the error could not reasonably have been discovered, and (ii) the matters described in sub-paragraphs (a) and (b) above related to thise.

48 Safety Procedures

The Contractor shall:

- a) Comply with all applicable safety regulations,
- b) Takec are for the safety of all persons entitled to be on the Site,
- c) Use reasonable efforts to keep the Site and Works clear of unnecessary obstruction so as to avoid danger to these persons.
- d) provide fencing, lighting, guarding and watching of the Works until completion and taking over under Clause 10 [Procuring Entity's Taking Over], and
- e) provide any Temporary Works (including roadways, footways, guards and fences) which may be necessary, because of the execution of the Works, for the use and protection of the public and of owners and occupiers of adjacent land.

49 Quality Assurance

- 49.1 The Contractor shall institute a quality assurance system to demonstrate compliance with the requirements of the Contract. The system shall be in accordance with the details stated in the Contract. The Architect shall be entitled audit any aspect of the system.
- Details of all procedures and compliance documents shall be submitted to the Architectf or information before each design and execution stage is commenced. When any document of a technical nature is issued to the Engineer, evidence of the prior approval by the Contractor itself shall be apparent on the document itself.

Compliance with the quality assurance system shall not relieve the Contractor of any of his duties, obligations or responsibilities under the Contract.

4.10 Site Data

- 4.10.1 The Procuring Entity shall have made available to the Contractor for his information, prior to the Base Date, all relevant data in the Procuring Entity's possession on sub-surface and hydrological conditions at the Site, including environmental aspects. The Procuring Entity shall similarly make available to the Contractor all such data which come into the Procuring Entity's possession after the Base Date. The Contractor shall be responsible for interpreting all such data.
- 4.102 To the extent which was practicable (taking account of cost and time), the Contractor shall be deemed to have obtained all necessary information as to risks, contingencies and other circumstances which may influence or affect the Tender or Works. To the same extent, the Contractor shall be deemed to have inspected and examined the Site, its surroundings, the above data and other available information, and to have been satisfied before submitting the Tender as to all relevant matters, including (without limitation):
 - a) The form and nature of the Site, including sub-surface conditions,
 - b) the hydrological and climatic conditions,
 - c) the extent and nature of the work and Goods necessary for the execution and completion of the Works and the remedying of any defects,
 - d) the Laws, procedures and labour practices of Kenya, and
 - e) the Contractor's requirements for access, accommodation, facilities, personnel, power, transport, water and other services.

4.11 Sufficiency of the Accepted Contract Amount

- 4.11.1 TheContractor shall be deemed to:
 - a) Have satisfied itself as to the correctness and sufficiency of the Accepted Contract Amount, and
 - b) have based the Accepted Contract Amount on the data, interpretations, necessary information, inspections, examinations and satisfaction as to all relevant matters referred to in Sub-Clause 4.10 [Site Data].
- 4.112 Unless otherwise stated in the Contract, the Accepted Contract Amount covers all the Contractor's obligations under the Contract (including those under Provisional Sums, if any) and all things necessary for the proper execution and completion of the Works and the remedying of any defects.

4.12 Unforeseeable Physical Conditions

- 4.12.1 In this Sub-Clause, "physical conditions" means natural physical conditions and man-made and other physical obstructions and pollutants, which the Contractor encounters at the Site when executing the Works, including sub-surface and hydrological conditions but excluding climatic conditions.
- 4.122 If the Contractor encounters adverse physical conditions which he considers to have been Unforeseeable, the Contractor shall give notice to the Architect as soon as practicable.
- 4.123 This notice shall describe the physical conditions, so that they can be inspected by the Architect and shall set out the reasons why the Contractor considers them to be Unforeseeable. The Contractor shall continue executing the Works, using such proper and reasonable measures as are appropriate for the physical conditions, and shall comply with any instructions which the Architect may give. If an instruction constitutes a Variation, Clause 13 [Variations and Adjustments] shall apply.
- 4.124 If and to the extent that the Contractor encounters physical conditions which are Unforeseeable, gives such a notice, and suffers delay and/or incurs Cost due to these conditions, the Contractor shall be entitled subject to notice under Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost, which shall be included in the Contract Price.
- 4.125 Upon receiving such notice and inspecting and/or investigating these physical conditions, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) whether and (if so) to what extent these physical conditions were Unforeseeable, and (ii) the matters described in subparagraphs (a) and (b) above related to this extent.
- 4.126 However, before additional Cost is finally agreed or determined under sub-paragraph (ii), the Architect may also review whether other physical conditions in similar parts of the Works (if any) were more favorable than could reasonably have been foreseen when the Contractor submitted the Tender. If and to the extent that these more favorable conditions were encountered, the Architect may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the reductions in Cost which were due to these conditions, which may be included (as deductions) in the Contract Price and Payment Certificates. However, the net effect of all adjustments under sub-paragraph (b) and all these reductions, for all the physical conditions encountered in similar parts of the Works, shall not result in a net reduction in the Contract Price.
- 4.12.7 The Architect shall take account of any evidence of the physical conditions foreseen by the Contractor when submitting the Tender, which shall be made available by the Contractor, but shall not be bound by the Contractor's interpretation of any such evidence.

4.13 Rights of Way and Facilities

Unless otherwise specified in the Contract the Procuring Entity shall provide effective access to and possession of the Site including special and/or temporary rights-of-way which are necessary for the Works. The Contractor shall obtain, at his risk and cost, any additional rights of way or facilities out side the Site which he may require for the purposes of the Works.

4.14 Avoidance of Interference

- 4.14.1 The Contractor shall not interfere unnecessarily or improperly with:
 - a) The convenience of the public, or
 - b) The access to and use and occupation of all roads and foot paths, irrespective of whether they are public or in the possession of the Procuring Entity or of others.
- 4.14.2 The Contractor shall indemnify and hold the Procuring Entity harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from any such unnecessary or improper interference.

4.15 Access Route

- 4.15.1 The Contractor shall be deemed to have been satisfied as to the suitability and availability of access routes to the Site at Base Date. The Contractor shall use reasonable efforts to prevent any road or bridge from being damaged by the Contractor's traffic or by the Contractor's Personnel. These efforts shall include the proper use of appropriate vehicles and routes.
- 4.152 Except as otherwise stated in these Conditions:
 - a) The Contractor shall (as between the Parties) be responsible for any maintenance which may be required for his use of access routes;
 - b) the Contractor shall provide all necessary signs or directions along access routes, and shall obtain any permission which may be required from the relevant authorities for his use of routes, signs and directions:
 - c) the Procuring Entity shall not be responsible for any claims which may arise from the use or otherwise of any access route;
 - d) the Procuring Entity does not guarantee the suitability or availability of particular access routes; and
 - e) Costs due to non-suitability or non-availability, for the use required by the Contractor, of access routes shall be borne by the Contractor.

4.16 Transport of Goods

Unless otherwise stated in the Special Conditions:

- a) the Contractor shall give the Architect not less than 21 days' notice of the date on which any Plant or a major item of other Goods will be delivered to the Site;
- b) the Contractor shall be responsible for packing, loading, transporting, receiving, unloading, storing and protecting all Goods and other things required for the Works; and
- c) the Contractor shall indemnify and hold the Procuring Entity harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from the transport of Goods and shall negotiate and pay all claims arising from their transport.

4.17 Contractor's Equipment

The Contractor shall be responsible for all Contractor's Equipment. When brought on to the Site, Contractor's Equipment shall be deemed to be exclusively intended for the execution of the Works. The Contractor shall not remove from the Site any major items of Contractor's Equipment without the consent of the Engineer. However, consent shall not be required for vehicles transporting Goods or Contractor's Personnel off Site.

4.18 Protection of the Environment

- 4.18.1 The contractor shall comply with the applicable environmental laws, regulations and policies.
- 4.18.2 The Contractor shall take all reasonable steps to protect the environment (both on and off the Site) and to limit damage and nuisance to people and property resulting from pollution, noise and other results of his

operations.

4.18.3 The Contractors hall ensure that emissions, surfaced is charges and effluent from the Contractor's activities shall not exceed the values stated in the Specification or prescribed by applicable Laws.

4.19 Electricity, Water and Gas

- 4.19.1 The Contractor shall, except as stated below, be responsible for the provision of all power, water and other services he may require for his construction activities and to the extent defined in the Specifications, for the tests.
- 4.192 The Contractor shall be entitled to use for the purposes of the Works such supplies of electricity, water, gas and other services as may be available on the Site and of which details and prices are given in the Specifications. The Contractor shall, at his risk and cost, provide any apparatus necessary for his use of these services and for measuring the quantities consumed.
- 4.193 The quantities consumed and the amounts due (at these prices) for such services shall be agreed or determined by the Architect in accordance with Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause 3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.

4.20 Procuring Entity's Equipment and Free-Issue Materials

- 4.20.1 The Procuring Entity shall make the Procuring Entity's Equipment (if any) available for the use of the Contractor in the execution of the Works in accordance with the details, arrangements and prices stated in the Specification. Unless otherwise stated in the Specification:
 - a) The Procuring Entity shall be responsible for the Procuring Entity's Equipment, except that
 - b) the Contractor shall be responsible for each item of Procuring Entity's Equipment whilst any of the Contractor's Personnel is operating it, driving it, directing it or in possession or control of it.
- 420.1 The appropriate quantities and the amounts due (at such stated prices) for the use of Procuring Entity's Equipment shall be agreed or determined by the Architect in accordance with Sub-Clause 2.5 [Procuring Entity's Claims] and Sub-Clause 3.5 [Determinations]. The Contractor shall pay these amounts to the Procuring Entity.
- 4202 The Procuring Entity shall supply, free of charge, the "free-issue materials" (if any) in accordance with the details stated in the Specification. The Procuring Entity shall, at his risk and cost, provide these materials at the time and place specified in the Contract. The Contractor shall then visually inspect them and shall promptly give notice to the Architect of any shortage, defect or default in these materials. Unless otherwise agreed by both Parties, the Procuring Entity shall immediately rectify the notified shortage, defector default.
- 4203 After this visual inspection, the free-issue materials shall come under the care, custody and control of the Contractor. The Contractor's obligations of inspection, care, custody and control shall not relieve the Procuring Entity of liability for any shortage, defect or default not apparent from a visual inspection.

4.21 Progress Reports

- 421.1 Unless otherwise stated in the Special Conditions, monthly progress reports shall be prepared by the Contractor and submitted to the Architect in six copies. The first report shall cover the period up to the end of the first calendar month following the Commencement Date. Reports shall be submitted monthly thereafter, each within 7 days after the last day of the period to which it relates.
- 4212 Reporting shall continue until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works. Each report shall include:
 - a) charts and detailed descriptions of progress, including each stage of design (if any), Contractor's Documents, procurement, manufacture, delivery to Site, construction, erection and testing; and including these stages for work by each nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]),
 - b) photographs showing the status of manufacture and of progress on the Site;
 - c) for the manufacture of each main item of Plant and Materials, the name of the manufacturer,

manufacture location, percentage progress, and the actual or expected dates of:

- i) commencement of manufacture,
- ii) Contractor's inspections,
- iii) tests, and
- iv) shipment and arrival at the Site;
- d) the details described in Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment];
- e) copies of quality assurance documents, test results and certificates of Materials;
- f) list of notices given under Sub-Clause 2.5 [Procuring Entity's Claims] and notices given under Sub-Clause 20.1 [Contractor's Claims];
- g) safety statistics, including details of any hazardous incidents and activities relating to environmental aspects and public relations; and
- h) comparison so factual and planned progress, with details of any events or circumstances which may jeopardize the completion in accordance with the Contract, and the measures being (or to be) adopted to overcome delays.

4.22 Security of the Site

Unless otherwise stated in the Special Conditions:

- a) The Contractor shall be responsible for keeping unauthorized persons off the Site, and
- b) authorized persons shall be limited to the Contractor's Personnel and the Procuring Entity's Personnel; and to any other personnel notified to the Contractor, by the Procuring Entity or the Engineer, as authorized personnel of the Procuring Entity's other contractors on the Site.

4.23 Contractor's Operations on Site

- 423.1 The Contractor shall confine his operations to the Site, and to any additional areas which may be obtained by the Contractor and agreed by the Architect as additional working areas. The Contractor shall take all necessary precautions to keep Contractor's Equipment and Contractor's Personnel within the Site and these additional areas, and to keep them off adjacent land.
- 4232 During the execution of the Works, the Contractor shall keep the Site free from all unnecessary obstruction and shall store or dispose of any Contractor's Equipment or surplus materials. The Contractor shall clear away and remove from the Site any wreckage, rubbish and Temporary Works which are no longer required.
- 4233 Upon the issue of a Taking-Over Certificate, the Contractor shall clear away and remove, from that part of the Site and Works to which the Taking-Over Certificate refers, all Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works. The Contractor shall leave that part of the Site and the Works in a clean and safe condition. However, the Contractor may retain on Site, during the Defects Notification Period, such Goods as are required for the Contractor to fulfil obligations under the Contract.

4.24 Fossils

- 424.1 All fossils, coins, articles of value or antiquity, and structures and other remains or items of geological or archaeological interest found on the Site shall be placed under the care and authority of the Procuring Entity. The Contractor shall take reasonable precautions to prevent Contractor's Personnel or other persons from removing or damaging any of these findings.
- 424.2 The Contractor shall, upon discovery of any such finding, promptly give notice to the Engineer, who shall issue instructions for dealing with it. If the Contractor suffers delay and/or incurs Cost from complying with the instructions, the Contractor shall give a further notice to the Architect and shall be entitled subject to Sub- Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost, which shall be included in the Contract Price.

 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5

 [Determinations] to agree or determine these matters.

5. NOMINATED SUBCONTRACTORS

5.1 Definition of "nominated Subcontractor"

In this Contract, "nominated Subcontractor" means a Subcontractor:

- a) Who is nominated by the Procuring Entity, or
- b) Contractor has nominated as a Subcontractor subject to Sub-Clause 5.2 [Objection to Notification].

52 Objection to Nomination

The Contractor shall not be under any obligation to employ a nominated Subcontractor against whom the Contractor raises reasonable objection by notice to the Procuring Entity as soon as practicable, with supporting particulars. An objection shall be deemed reasonable if it arises from (among other things) any of the following matters, unless the Procuring Entity agrees in writing to indemnify the Contractor against and from the consequences of the matter:

- a) there are reasons to believe that the Subcontractor does not have sufficient competence, resources or financial strength;
- b) the nominated Subcontractor does not accept to indemnify the Contractor against and from any negligence or misuse of Goods by the nominated Subcontractor, his agents and employees; or
- c) the nominated Subcontractor does not accept to enter into a subcontract which specifies that, for the subcontracted work (including design, if any), the nominated Subcontractor shall:
 - i) undertake to the Contractor such obligations and liabilities as will enable the Contractor to discharge his obligations and liabilities under the Contract;
 - ii) indemnify the Contractor against and from all obligations and liabilities arising under or in connection with the Contract and from the consequences of any failure by the Subcontractor to perform these obligations or to fulfil these liabilities, and
 - iii) be paid only if and when the Contractor has received from the Procuring Entity payments for sums due under the Subcontract referred to under Sub-Clause 5.3 [Payment to nominated Subcontractors].

53 Payments to nominated Subcontractors

The Contractor shall pay to the nominated Subcontractor the amounts shown on the nominated Subcontractor's invoices approved by the Contractor which the Architect certifies to be due in accordance with the subcontract. These amounts plus other charges shall be included in the Contract Price in accordance with sub-paragraph (b) of Sub-Clause 13.5 [Provisional Sums], except as stated in Sub-Clause 5.4 [Evidence of Payments].

54 Evidence of Payments

- 5.4.1 Before issuing a Payment Certificate which includes an amount payable to a nominated Subcontractor, the Architect may request the Contractor to supply reasonable evidence that the nominated Subcontractor has received all amounts due in accordance with previous Payment Certificates, less applicable deductions for retention or otherwise. Unless the Contractor:
 - (a) Submits this reasonable evidence to the Engineer, or
 - (b) i) Satisfies the Architect in writing that the Contractor is reasonably entitled to withhold or refuse to pay these amounts, and
 - ii) Submits to the Architect reasonable evidence that the nominated Subcontractor has been notified of the Contractor's entitlement, then the Procuring Entity may (at his sole discretion) pay, directto the nominated Subcontractor, part or all of such amounts previously certified (less applicable deductions) as are due to the nominated Subcontractor and for which the Contractor has failed to submit the evidence described in sub-paragraphs (a) or (b) above. The Contractor shall then repay, to the Procuring Entity, the amount which the nominated Subcontractor was directly paid by the Procuring Entity.

6 STAFF AND LABOR

6.1 Engagement of Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labor, local or otherwise, and for their payment, feeding, transport, and, when appropriate, housing. The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labor with appropriate qualifications and experience from sources within Kenya.

Rates of Wages and Conditions of Labor

- The Contractor shall pay rates of wages, and observe conditions of labor, which are not lower than those established for the trade or industry where the work is carried out. If no established rates or conditions are applicable, the Contractor shall pay rates of wages and observe conditions which are not lower than the general level of wages and conditions observed locally by Procuring Entity's whose trade or industry is similar to that of the Contractor.
- The Contractor shall inform the Contractor's Personnel about their liability to pay personal income taxes in Kenya in respect of such of their salaries, wages, allowances and any benefits as are subject to tax under the Laws of Kenya for the time being in force, and the Contractor shall perform such duties in regard to such deductions there of as may be imposed on him by such Laws.

63 Persons in the Service of Procuring Entity

The Contractor shall not recruit, or attempt to recruit, staff and labour from amongst the Procuring Entity's Personnel.

64 Lab or Laws

The Contractor shall comply with all the relevant labour Laws applicable to the Contractor's Personnel, including Laws relating to their employment, employment of children, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights. The Contractor shall require his employees to obey all applicable Laws, including those concerning safety at work.

6.5 Working Hours

Nowork shall be carried out on the Site on locally recognized days of rest, or outside the normal working hours stated in the **Special Conditions of Contract**, unless:

- a) Otherwise stated in the Contract,
- b) The Architect gives consent, or
- c) The work is unavoidable, or necessary for the protection of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Engineer, provided that work done outside the normal working hours shall be considered and paid for as overtime.

6.6 Facilities for Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities on site for the Contractor's Personnel. The Contractor shall also provide facilities for the Procuring Entity's Personnel as stated in the Specifications. The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Permanent Works.

6.7 Health and Safety

- 6.7.1 The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site and at any accommodation for Contractor's and Procuring Entity's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.
- The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the execution of the Works, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.
- 6.73 The Contractor shall send, to the Engineer, details of any accident as soon as practicable after its occurrence. The Contractor shall maintain records and make reports concerning health, safety and welfare of persons, and damage to property, as the Architect may reasonably require.
- 67.4 The Contractor shall conduct an awareness programme on HIV and other sexually transmitted diseases via an approved service provider and shall undertake such other measures taken to reduce the risk of the transfer of these diseases between and among the Contractor's Personnel and the local community, to

promote early diagnosis and to assist affected individuals.

68 Contractor's Superintendence

- 68.1 Throughout the execution of the Works, and as long thereafter as is necessary to fulfil the Contractor's obligations, the Contractor shall provide all necessary super intendence to plan, arrange, direct, manage, inspect and test the work.
- Superintendence shall be given by a sufficient number of persons having adequate knowledge of the language for communications (defined in Sub-Clause 1.4 [Law and Language]) and of the operations to be carried out (including the methods and techniques required, the hazards likely to be encountered and methods of preventing accidents), for the satisfactory and safe execution of the Works.

69 Contractor's Personnel

- 69.1 The Contractor's Personnel shall be appropriately qualified, skilled and experienced in their respective trades or occupations. The Contractors Key personnel shall be named in the Special Conditions of Contract. The Architect may require the Contractor to remove (or cause to be removed) any person employed on the Site or Works, including the Contractor's Representative if applicable, who:
 - a) Persists in any misconduct or lack of care,
 - b) Carries out duties in competently or negligently,
 - c) fails to conform with any provisions of the Contract,
 - d) persists in any conduct which is prejudicial to safety, health, or the protection of the environment, or
 - e) based on reasonable evidence, is determined to have engaged in Fraud and Corruption during the execution of the Works.
- 692 If appropriate, the Contractor shall then appoint (or cause to be appointed) a suitable replacement person.

6.10 Records of Contractor's Personnel and Equipment

The Contractor shall submit, to the Engineer, details showing the number of each class of Contractor's Personnel and of each type of Contractor's Equipment on the Site. Details shall be submitted each calendar month, in a form approved by the Engineer, until the Contractor has completed all work which is known to be outstanding at the completion date stated in the Taking-Over Certificate for the Works.

6.11 Disorderly Conduct

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst the Contractor's Personnel, and to preserve peace and protection of persons and property on and near the Site.

6.12 Foreign Personnel

- 6.12.1 The Contractor shall not employ foreign personnel unless the contractor demonstrates that there are no Kenyans with the required skills.
- 6.122 The Contractor shall be responsible for the return of any foreign personnel to the place where they were recruited or to their domicile. In the event of the death in Kenya of any of these personnel or members of their families, the Contractor shall similarly be responsible for making the appropriate arrangements for their return or burial.

6.13 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Sitea n adequate supply of drinking and other water for the use of the Contractor's Personnel.

6.14 Measures against Insect and Pest Nuisance

The Contractor shall at all times take the necessary precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce the danger to their health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

6.15 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of Kenya, onsite, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift, barter or disposal there of by Contractor's Personnel.

6.16 Prohibition of Forced or Compulsory Labour

The Contractor shall not employ forced labor, which consists of any work or service, not voluntarily performed, that is exacted from an individual under threat of force or penalty, and includes any kind of involuntary or compulsory labor, such as indentured labor, bonded labor or similar labor-contracting arrangements.

6.17 Prohibition of Harmful Child Labor

The Contractor shall not employ children in a manner that is economically exploitative, or is likely to be hazardous, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development. Where the relevant labour laws of Kenya have provisions for employment of minors, the Contractor shall follow those laws applicable to the Contractor. Children below the age of 18 years shall not be employed in dangerous work.

6.18 Employment Records of Workers

The Contractor shall keep complete and accurate records of the employment of labour at the Site. The records shall include the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis and submitted to the Engineer. These records shall be included in the details to be submitted by the Contractor under Sub-Clause 6.10 [Records of Contractor's Personnel and Equipment].

619 Workers' Organizations

The Contractor shall comply with the relevant labor laws that recognize workers' rights to form and to join workers' organizations of their choosing without interference.

620 Non-Discrimination and Equal Opportunity

The Contractor shall base the labour employment on the principle of equal opportunity and fair treatment and shall not discriminate with respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits), working conditions and terms of employment, access to training, promotion, termination of employ mentor retirement, and discipline.

7. PLANT, MATERIALS AND WORKMANSHIP

7.1 Manner of Execution

The Contractor shall carry out the manufacture/assemble of plant, the production and manufacture of Materials, and all other execution of the Works:

- a) In the manner (if any) specified in the Contract,
- b) in a proper workman like and careful manner, in accordance with recognized good practice, and
- c) with properly equipped facilities and non-hazardous Materials, except as otherwise specified in the Contract.

72 Samples

The Contractor shall submit the following samples of Materials, and relevant information, to the Architect for consent prior to using the Material sin or for the Works:

- a) manufacturer's standard samples of Materials and samples specified in the Contract, all at the Contractor's cost, and
- b) additional samples instructed by the Architect as a Variation.

Each sample shall be labeled as to origin and intended use in the Works.

7.3 Inspection

- 73.1 The Procuring Entity's Personnel shall at all reasonable times:
 - a) Have full access to all parts of the Site and to all places from which natural Materials are being obtained, and
 - b) during production, manufacture and construction (at the Site and elsewhere), be entitled to examine, inspect, measure and test the materials and workmanship, and to check the progress of manufacture of Plant and production and manufacture of Materials.
- The Contractor shall give the Procuring Entity's Personnel full opportunity to carry out these activities, including providing access, facilities, permissions and safety equipment. No such activity shall relieve the Contractor from any obligation or responsibility.
- 733 The Contractor shall give notice to the Architect whenever any work is ready and before it is covered up, put out of sight, or packaged for storage or transport. The Architect shall then either carry out the examination, inspection, measurement or testing without unreasonable delay, or promptly give notice to the Contractor that the Architect does not require to do so. If the Contractor fails to give the notice, he shall, if and when required by the Engineer, uncover the work and there after reinstate and make good, all at the Contractor's cost.

7.4 Testing

- 7.4.1 This Sub-Clause shall apply to all tests specified in the Contract.
- Except as otherwise specified in the Contract, the Contractor shall provide all apparatus, assistance, documents and other information, electricity, equipment, fuel, consumables, instruments, labor, materials, and suitably qualified and experienced staff, as are necessary to carry out the specified tests efficiently. The Contractor shall agree, with the Engineer, the time and placef ort he specified testing of any Plant, Materials and other parts of the Works.
- 7.43 The Architect may, under Clause 13 [Variations and Adjustments], vary the location or details of specified tests, or instruct the Contractor to carry out additional tests. If these varied or additional tests show that the tested Plant, Materials or workmanship is not in accordance with the Contract, the cost of carrying out this Variation shall be borne by the Contractor, not withstanding other provisions of the Contract.
- 7.44 The Architect shall give the Contractor not less than 24 hours' notice of the Architect intention to attend the tests. If the Architect does not attend at the time and place agreed, the Contractor may proceed with the tests, unless otherwise instructed by the Engineer, and the tests shall then be deemed to have been made in the Architect presence.
- 7.45 If the Contractor suffers delay and/ or incurs Cost from complying with these instructions or as a result of a delay for which the Procuring Entity is responsible, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- 7.4.6 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 74.7 The Contractor shall promptly forward to the Architect duly certified reports of the tests. When the specified tests have be enpassed, the Architect shall endorse the Contractor's test certificate, or issue a certificate to him, to that effect. If the Architect has not attended the tests, he shall be deemed to have accepted the readings as accurate.

7.5 Rejection

- 75.1 If, as a result of an examination, inspection, measurement or testing, any Plant, Materials or workmanship is found to be defective or otherwise not in accordance with the Contract, the Architect may reject the Plant, Materials or workmanship by giving notice to the Contractor, with reasons. The Contractor shall then promptly make good the defect and ensure that the rejected item complies with the Contract.
- 752 If the Architect requires this Plant, Materials or workmanship to be retested, the tests shall be repeated under the same terms and conditions. If the rejection and retesting cause the Procuring Entity to incur additional costs, the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay these costs to the Procuring Entity.

7.6 Remedial Work

- 7.6.1 Not withstanding any previous test or certification, the Architect may instruct the Contractorto:
 - a) Remove from the Site and replace any Plant or Materials which is not in accordance with the Contract,
 - b) remove and re-execute any other work which is not in accordance with the Contract, and
 - c) execute any work which is urgently required for the safety of the Works, whether because of an accident, unforeseen able event or otherwise.
- 7.62 The Contractor shall comply with the instruction within a reasonable time, which shall be the time (if any) specified in the instruction, or immediately if urgency is specified under sub-paragraph (c).
- 7.63 If the Contractor fails to comply with the instruction, the Procuring Entity shall be entitled to employ and pay other persons to carry out the work. Except to the extent that the Contractor would have been entitled to payment for the work, the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay to the Procuring Entity all costs arising from this failure.
- 7.64 If the contractor repeatedly delivers defective work, the Procuring Entity may consider termination in accordance with Clause 15.

7.7 Ownership of Plant and Materials

Except as otherwise provided in the Contract, each item of Plant and Materials shall become the property of the Procuring Entity at whichever is the earlier of the following times, free from liens and other encumbrances:

- a) When it is incorporated in the Works;
- b) when the Contractor is paid the corresponding value of the Plant and Materials under Sub-Clause 8.10 [Payment for Plant and Materials in Event of Suspension].

7.8 Royalties

Unless otherwise stated in the Specification, the Contractor shall pay all royalties, rents and other payments for:

- a) Natural materials obtained from outside the Site, and
- b) The disposal of material from demolitions and excavations and of other surplus material (whether natural or man-made), except to the extent that disposal are as within the Site are specified in the Contract.

8 COMMENCEMENT, DELAYS AND SUSPENSION

81 Commencement of Works

- 8.1.1 Except as otherwise specified in the Special Conditions of Contract, the Commencement Date shall be the date at which the following precedent condition shave all been fulfilled and the Architect notification recording the agreement of both Parties on such fulfillment and instructing to commence the Work is received by the Contractor:
 - a) Signature of the Contract Agreement by both Parties, and if required, approval of the Contract by relevant authorities of Kenya;
 - b) except if otherwise specified in the Special Conditions of Contract, effective access to and possession of the Site given to the Contractor together with such permission(s) under (a) of Sub-Clause 1.13 [Compliance with Laws] as required for the commencement of the Works.
 - c) Receipt by the Contractor of the Advance Payment under Sub-Clause 14.2 [Advance Payment] provided that the corresponding bank guarantee has been delivered by the Contractor.
- 8.12 If the said Architect instruction is not received by the Contractor within 180 days from his receipt of the Letter of Acceptance, the Contractor shall be entitled to terminate the Contract under Sub-Clause1 6.2 [Termination by Contractor].
- 8.13 The Contractor shall commence the execution of the Works as soon as is reasonably practicable after the Commencement Date and shall then proceed with the Works with due expedition and without delay.

82 Time for Completion

The Contractor shall complete the whole of the Works, and each Section (if any), within the Time for Completion for the Works or Section (as the case may be), including:

- a) Achieving the passing of the Tests on Completion, and
- b) completing all work which is stated in the Contract as being required for the Works or Section to be considered to be completed for the purposes of taking-over under Sub-Clause 10.1 [Taking Over of the Works and Sections].

83 Programme

- 83.1 The Contractor shall submit a detailed time programme to the Architect within 14 days after receiving the notice under Sub-Clause 8.1 [Commencement of Works]. The Contractor shall also submit a revised programme whenever the previous programme is inconsistent with actual progress or with the Contractor's obligations. Each programme shall include:
 - a) The order in which the Contractor intends to carry out the Works, including the anticipated timing of each stage of design (if any), Contractor's Documents, procurement, manufacture of Plant, delivery to Site, construction, erection and testing,
 - b) each of these stages for work by each nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]).
 - c) the sequence and timing of inspections and tests specified in the Contract, and
 - d) a supporting report which includes a general description of the methods which the Contractor intends to adopt, and of the major stages, in the execution of the Works, and details showing the Contractor's reasonable estimate of the number of each class of Contractor's Personnel and of each type of Contractor's Equipment, required on the Site for each major stage.
- Unless the Engineer, within 14 days after receiving a programme, gives notice to the Contractor stating the extent to which it does not comply with the Contract, the Contractor shall proceed in accordance with the programme, subject to his other obligations under the Contract. The Procuring Entity's Personnel shall be entitled to rely upon the programme when planning their activities.
- 833 The Contractor shall promptly give notice to the Architect of specific probable future events or circumstances which may adversely affect the work, increase the Contract Price or delay the execution of the Works.
- If, at anytime, the Architect gives notice to the Contractor that a programme fails (to the extent stated) to comply with the Contractor to be consistent with actual progress and the Contractor's stated intentions, the Contractor shall submit a revised programme to the Architect in accordance with this Sub-Clause.

8.4 Extension of Time for Completion

- 84.1 The Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to an extension of the Time for Completion if and to the extent that completion for the purposes of Sub-Clause 10.1 [Taking Over of the Works and Sections] is or will be delayed by any of the following causes:
 - a) a Variation (unless an adjustment to the Time for Completion has been agreed under Sub-Clause 13.3 [Variation Procedure]) or other substantial change in the quantity of an item of work included in the Contract,
 - b) a cause of delay giving an entitlement to extension of time under a Sub-Clause of these Conditions,
 - c) exceptionally adverse climatic conditions,
 - d) Unforeseeable shortages in the availability of personnel or Goods caused by epidemic or governmental actions, or
 - e) any delay, impediment or prevention caused by or attributable to the Procuring Entity, the Procuring Entity's Personnel, or the Procuring Entity's other contractors.
- If the Contractor considers itself to be entitled to an extension of the Time for Completion, the Contractor shall give notice to the Architect in accordance with Sub-Clause 20.1 [Contractor's Claims]. When determining each extension of time under Sub-Clause 20.1, the Architec tshall review previous determinations and may increase, but shall not decrease, the total extension of time.

8.5 Delays Caused by Authorities

If the following conditions apply, namely:

a) The Contractor has diligently followed the procedures laid down by the relevant legally constituted public authorities in Kenya,

- b) These authorities delay or disrupt the Contractor's work, and
- the delay or disruption was Unforeseeable, then this delay or disruption will be considered as a cause of delay under sub-paragraph (b) of Sub-Clause 8.4 [Extension of Time for Completion].

8.6 Rate of Progress

- 8.6.1 If, at anytime:
 - a) Actual progress is too slow to complete within the Time for Completion, and/or
 - b) Progress has fallen (or will fall) behind the current programme under Sub-Clause 8.3 [Programme], other than as a result of a cause listed in Sub-Clause 8.4 [Extension of Time for Completion], then the Architect may instruct the Contractor to submit, under Sub-Clause 8.3 [Programme], a revised programme and supporting report describing the revised methods which the Contractor proposes to adopt in order to expedite progress and complete within the Time for Completion.
- Unless the Architect notifies otherwise, the Contractor shall adopt these revised methods, which mayrequire increases in the working hours and/or in the numbers of Contractor's Personnel and/or Goods, at the risk and cost of the Contractor. If these revised methods cause the Procuring Entity to incur additional costs, the Contractor shall subject to notice under Sub-Clause 2.5 [Procuring Entity's Claims] pay these costs to the Procuring Entity, in addition to delay damages (if any) under Sub-Clause 8.7 below.
- Additional costs of revised methods including acceleration measures, instructed by the Architect to reduce delays resulting from causes listed under Sub-Clause 8.4 [Extension of Time for Completion] shall be paid by the Procuring Entity, without generating, however, any other additional payment benefit to the Contractor.

8.7 Delay Damages

- 87.1 If the Contractor fails to comply with Sub-Clause 8.2 [Time for Completion], the Contractor shall subject to notice under Sub-Clause 2.5 [Procuring Entity's Claims] pay delay damages to the Procuring Entity for this default. These delay damages shall be the sum stated in the **Special Conditions of Contract**, which shall be paid for everyday which shall elapse between the relevant Time for Completion and the date stated in the taking-Over Certificate. However, the total amount due under this Sub-Clause shall not exceed the maximum amount of delay damages (if any) stated in the Special Conditions of Contract.
- These delay damages shall be the only damages due from the Contractor for such default, other than in the event of termination under Sub-Clause 15.2 [Termination by Procuring Entity] prior to completion of the Works. These damages shall not relieve the Contractor from his obligation to complete the Works, or from any other duties, obligations or responsibilities which he may have under the Contract.

8.8 Suspension of Work

- The Architect may at anytime instruct the Contractor to suspend progress of part or all of the Works. During such suspension, the Contractor shall protect, store and secure such part or the Works a gainst any deterioration, loss or damage.
- The Architect may also notify the cause for the suspension. If and to the extent that the cause is notified and is the responsibility of the Contractor, the following Sub-Clauses 8.9, 8.10 and 8.11 shall not apply.

8.9 Consequences of Suspension

- 89.1 If the Contractor suffers delay and/or incurs Cost from complying with the Architect instructions under Sub- Clause 8.8 [Suspension of Work] and/or from resuming the work, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) Payment of any such Cost, which shall be included in the Contract Price.
- After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- 893 The Contractor shall not be entitled to an extension of time for, or to payment of the Cost incurred in, making good the consequences of the Contractor's faulty design, workmanship or materials, or of the

Contractor's failure to protect, store or secure in accordance with Sub-Clause 8.8 [Suspension of Work].

8.10 Payment for Plant and Materials in Event of Suspension

The Contractor shall be entitled to payment of the value (as at the date of suspension) of Plant and/ or Materials which have not been delivered to Site, if:

- a) The work on Plant or delivery of Plant and/ or Materials has been suspended for more than 30 days, and
- b) the Contractor has marked the Plant and/or Materials as the Procuring Entity's property in accordance with the Architect instructions.

8.11 Prolonged Suspension

If the suspension under Sub-Clause 8.8 [Suspension of Work] has continued for more than 84 days, the Contractor may request the Architect permission to proceed. If the Architect does not give permission within 30 days after being requested to do so, the Contractor may, by giving notice to the Engineer, treat the suspension as an omission under Clause 13 [Variations and Adjustments] of the affected part of the Works. If the suspension affects the whole of the Works, the Contractor may give notice of termination under Sub-Clause 16.2 [Termination by Contractor].

8.12 Resumption of Work

After the permission or instruction to proceed is given, the Contractor and the Architect shall jointly examine the Works and the Plant and Materials affected by the suspension. The Contractor shall make good any deterioration or defect in or loss of the Works or Plant or Materials, which has occurred during the suspension after receiving from the Architec tan instruction to this effect under Clause 13 [Variations and Adjustments].

9. TESTS ON COMPLETION

9.1 Contractor's Obligations

- 9.1.1 The Contractor shall carry out the Tests on Completion in accordance with this Clause and Sub-Clause 7.4 [Testing], after providing the documents in accordance with sub-paragraph (d) of Sub-Clause 4.1 [Contractor's General Obligations].
- 9.12 The Contractor shall give to the Architect not less than 21 days' notice of the date after which the Contractor will be ready to carry out each of the Tests on Completion. Unless otherwise agreed, Tests on Completion shall be carried out within 14 days after this date, on such day or days as the Architect shall instruct.
- 9.13 In considering the results of the Tests on Completion, the Architect shall make allowances for the effect of any use of the Works by the Procuring Entity on the performance or other characteristics of the Works. As soon as the Works, or a Section, have passed any Tests on Completion, the Contractor shall submit a certified report of the resultsof these Tests to the Engineer.

9.2 Delayed Tests

- If the Tests on Completion are being unduly delayed by the Procuring Entity, Sub-Clause 7.4 [Testing] (fifth paragraph) and/ or Sub-Clause 10.3 [Interference with Tests on Completion] shall be applicable.
- 922 If the Tests on Completion are being unduly delayed by the Contractor, the Architect may by notice require the Contractor to carry out the Tests within 21 days after receiving the notice. The Contractor shall carry out the Tests on such day or days within that period as the Contractor may fix and of which he shall give notice to the Engineer.
- 923 If the Contractor fails to carry out the Tests on Completion within the period of 21 days, the Procuring Entity's Personnel may proceed with the Test sat the risk and cost of the Contractor. The Tests on Completion shall then be deemed to have been carried out in the presence of the Contractor and the results of the Tests shall be accepted as accurate.

93 Retesting of related works

If the Works, or a Section, fail to pass the Tests on Completion, Sub-Clause 7.5 [Rejection] shall apply, and the Architect or the Contractor may require the failed Tests, and Tests on Completion on any related work,

to be repeated under the same terms and conditions.

94 Failure to Pass Tests on Completion

- 9.4.1 If the Works, or a Section, fail to pass the Tests on Completion repeated under Sub-Clause 9.3 [Retesting], the Architect shall be entitled to:
 - a) Order further repetition of Tests on Completion under Sub-Clause 9.3; or
 - b) if the failure deprives the Procuring Entity of substantially the whole benefit of the Works or Section, reject the Works or Section (as the case may be), in which event the Procuring Entity shall have the same remedies as are provided in sub-paragraph (c) of Sub-Clause 1 1.4 [Failure to Remedy Defects].

10. PROCURING ENTITY'S TAKING OVER

10.1 Taking Over of the Works and Sections

- 10.1.1 Except as stated in Sub-Clause 9.4 [Failure to Pass Tests on Completion], the Works shall be taken over by the Procuring Entity when (i) the Works have been completed in accordance with the Contract, including the matters described in Sub-Clause 8.2 [Time for Completion] and except as allowed in sub-paragraph (a) below, and (ii) a Taking-Over Certificate for the Works has been issued, or is deemed to have been issued in accordance with this Sub-Clause.
- 10.12 The Contractor may apply by notice to the Architect for a Taking-Over Certificate not earlier than 14 days before the Works will, in the Contractor's opinion, be complete and ready for taking over. If the Works are divided into Sections, the Contract or may similarly apply for a Taking-Over Certificate for each Section.
- 10.13 The Architect shall, within 30 days after receiving the Contractor's application:
 - a) Issue the Taking-Over Certificate to the Contract or, stating the date on which the Works or Section were completed in accordance with the Contract, except for any minor out standing work and defects which will not substantially affect the use of the Works or Section for their intended purpose (either until or whilst this work is completed and these defects are remedied); or
 - b) reject the application, giving reasons and specifying the work required to be done by the Contractor to enable the Taking-Over Certificate to be issued. The Contractor shall then complete this work before issuing a further notice undert his Sub-Clause.
- 10.14 If the Architect fails either to issue the Taking-Over Certificate or to reject the Contractor's application within the period of 30 days, and if the Works or Section (as the case may be) are substantially in accordance with the Contract, the Taking-Over Certificate shall be deemed to have been issued on thel ast day of that period.

10.2 Taking Over of Parts of the Works

- 102.1 The Architect may, at the sole discretion of the Procuring Entity, issue a Taking-Over Certificate for any part of the Permanent Works.
- 10.22 The Procuring Entity shall not use any part of the Works (other than as a temporary measure which is either specified in the Contract or agreed by both Parties) unless and until the Architect has issued a Taking-Over Certificate for this part. However, if the Procuring Entity does use any part of the Works before the Taking-Over Certificate is issued:
 - a) The part which is used shall be deemed to have been taken over as from the date on which it is used,
 - b) the Contractor shall cease to be liable for the care of such part as from this date, when responsibility shall pass to the Procuring Entity, and
 - c) if requested by the Contractor, the Architect shall issue a Taking-Over Certificate for this part.
- 10.23 After the Architect has issued a Taking-Over Certificate for a part of the Works, the Contractor shall be given the earliest opportunity to take such steps as may be necessary to carry out any outstanding Tests on Completion. The Contractor shall carry out these Tests on Completion as soon as practicable before the expiry date of the relevant Defects Notification Period.
- If the Contractor incurs Cost as a result of the Procuring Entity taking over and/or using a part of the Works, other than such use as is specified in the Contractor agreed by the Contractor, the Contractor shall (i) give notice to the Architect and (ii) be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to payment of any such accrued costs, which shall be included in the Contract Price. After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this

accrued cost.

If a Taking-Over Certificate has been issued for a part of the Works (other than a Section), the delay damages there after for completion of the remainder of the Works shall be reduced. Similarly, the delay damages for the remainder of the Section (if any) in which this part is included shall also be reduced. For any period of delay after the date stated in this Taking-Over Certificate, the proportional reduction in these delay damages shall be calculated as the proportion which the value of the part so certified bears to the value of the Works or Section (as the case may be) as a whole. The Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these proportions. The provisions of this paragraph shall only apply to the daily rate of delay damages under Sub-Clause 8.7 [Delay Damages] and shall not affect the maximum amount of these damages.

10.3 Interference with Tests on Completion

- 103.1 If the Contractor is prevented, for more than 14 days, from carrying out the Tests on Completion by a cause for which the Procuring Entity is responsible, the Procuring Entity shall be deemed to have taken over the Works or Section (as the case may be) on the date when the Tests on Completion would otherwise have been completed.
- 1032 The Architect shall then issue a Taking-Over Certificate accordingly, and the Contractor shall carry out the Tests on Completion as soon as practicable, before the expiry date of the Defects Notification Period. The Architect shall require the Tests on Completion to be carried out by giving 14 days' notice and in accordance with the relevant provisions of the Contract.
- 1033 If the Contractor suffers delay and/or incurs Cost as a result of this delay in carrying out the Tests on Completion, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such accrued costs, which shall be included in the Contract Price.
- 1034 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

10.4 Surfaces Requiring Reinstatement

Except as otherwise stated in a Taking-Over Certificate, a certificate for a Section or part of the Works shall not be deemed to certify completion of any ground or other surfaces requiring reinstatement.

11. DEFECTS LIABILITY

11.1 Completion of Outstanding Work and Remedying Defects

- 11.1.1 In order that the Works and Contractor's Documents, and each Section, shall be in the condition required by the Contract (fair wear and tear excepted) by the expiry date of the relevant Defects Notification Period or as soon as practicable there after, the Contractor shall:
 - a) complete any work which is outstanding on the date stated in a Taking-Over Certificate, within such reasonable time as is instructed by the Engineer, and
 - b) execute all work required to remedy defects or damage, as may be notified by (or on behalf of) the Procuring Entity on or before the expiry date of the Defects Notification Period for the Works or Section (as the case may be).
- 11.12 If a defect appears or damage occurs, the Contractor shall be notified accordingly by the Engineer.

11.2 Cost of Remedying Defects

- All work referred to in sub-paragraph (b) of Sub-Clause 11.1 [Completion of Outstanding Work and Remedying Defects] shall be executed at the risk and cost of the Contractor, if and to the extent that the work is attributable to:
 - a) Any design for which the Contractor is responsible,
 - b) Plant, Materials or workmanship not being in accordance with the Contract, or
 - c) Failure by the Contractor to comply with any other obligation.

If and to the extent that such work is attributable to any other cause, the Contractor shall be notified promptly by (or on behalf of) the Procuring Entity, and Sub-Clause 13.3 [Variation Procedure] shall apply.

113 Extension of Defects Notification Period

- 113.1 The Procuring Entity shall be entitled subject to Sub-Clause 2.5 [Procuring Entity's Claims] to an extension of the Defects Notification Period for the Works or a Section if and to the extent that the Works, Section or a major item of Plant (as the case may be, and after taking over) cannot be used for the purposes for which they are intended by reason of a defect or by reason of damage attributable to the Contractor. However, a Defects Notification Period shall not be extended by more than two years.
- If delivery and/ or erection of Plant and/ or Materials was suspended under Sub-Clause 8.8 [Suspension of Work] or Sub-Clause 16.1 [Contractor's Entitlement to Suspend Work], the Contractor's obligations under this Clause shall not apply to any defects or damage occurring more than two years after the Defects Notification Period for the Plant and/ or Materials would otherwise have expired.

11.4 Failure to Remedy Defects

- 114.1 If the Contractor fails to remedy any defect or damage within a reasonable time, a date may be fixed by the Engineer, on or by which the defect or damage is to be remedied. The Contractor shall be given reasonable notice of this date.
- 11.42 If the Contractor fails to remedy the defect or damage by this notified date and this remedial work was to be executed at the cost of the Contractor under Sub-Clause 11.2 [Costo f Remedying Defects], the Procuring Entity may (at his option):
 - (a) Carry out the work itself or by others, in a reasonable manner and at the Contractor's cost, but the Contractor shall have no responsibility for this work; and the Contractor shall subject to Sub-Clause 2.5 [Procuring Entity's Claims] pay to the Procuring Entity the costs reasonably incurred by the Procuring Entity in remedying the defect or damage;
 - (b) Require the Architect to agree or determine a reasonable reduction in the Contract Price in accordance with Sub-Clause 3.5 [Determinations]; or
 - (c) if the defect or damage deprives the Procuring Entity of substantially the whole benefit of the Works or any major part of the Works, terminate the Contractas a whole, or in respect of such major part which cannot be put to the intended use. Without prejudice to any other rights, under the Contractor otherwise, the Procuring Entity shall then be entitled to recover all sums paid for the Works or for such part (as the case may be), plus financing costs and the cost of dismantling the same, clearing the Site and returning Plant and Materials to the Contractor.

11.5 Removal of Defective Work

If the defector damage cannot be remedied expeditiously on the Site and the Procuring Entity gives consent, the Contractor may remove from the Site for the purposes of repair such items of Plant as are defective or damaged. This consent may require the Contractor to increase the amount of the Performance Security by the full replacement cost of these items, or to provide other appropriate security.

11.6 Further Tests

- 11.6.1 If the work of remedying of any defector damage may affect the performance of the Works, the Architect may require the repetition of any of the tests described in the Contract. The requirement shall be made by notice within 14 days after the defect or damage is remedied.
- These tests shall be carried out in accordance with the terms applicable to the previous tests, except that they shall be carried out at the risk and cost of the Party liable, under Sub-Clause 11.2 [Cost of Remedying Defects], for the cost of the remedial work.

11.7 Right of Access

Until the Completion Certificate has been issued, the Contractor shall have such right of access to the Works as is reasonably required in order to comply with this Clause, except as may be inconsistent with the Procuring Entity's reasonable security restrictions.

118 Contractor to Search

The Contractor shall, if required by the Engineer, search for the cause of any defecton parts of the works

that have already accepted, under the direction of the Engineer. Unless the defect is to be remedied at the cost of the Contractor under Sub-Clause 11.2 [Cost of Remedying Defects], the Cost of the search plus profit shall be agreed or determined by the Architect in accordance with Sub-Clause 3.5 [Determinations] and shall be included in the Contract Price.

119 Completion Certificate

- 119.1 Performance of the Contractor's obligations shall not be considered to have been completed until the Architect has issued the Completion Certificate to the Contractor, stating the date on which the Contractor completed his obligations under the Contract.
- The Architect shall issue the Completion Certificate within 30days after the latest of the expiry dates of the Defects Liability Period, or as soon there after as the Contractor has supplied all the Contractor's Documents and completed and tested all the Works, including remedying any defects. A copy of the Completionn Certificate shall be issued to the Procuring Entity.
- 11.93 Only the Completion Certificate shall be deemed to constitute acceptance of the Works.

11.10 Unfulfilled Obligations

After the Completion Certificate has been issued, each Party shall remain liable for the fulfilment of any obligation which remains unperformed at that time. For the purposes of determining the nature and extent of unperformed obligations, the Contract shall be deemed to remain in force.

11.11 Clearance of Site

- 11.11.1 Upon receiving the Completion Certificate, the Contractor shall remove any remaining Contractor's Equipment, surplus material, wreckage, rubbish and Temporary Works from the Site.
- 11.112 If all these items have not been removed within 30 days after receipt by the Contractor of the Completion Certificate, the Procuring Entity may sell or otherwise dispose of any remaining items. The Procuring Entity shall be entitled to be paid the costs incurred in connection with, or attributable to, such sale or disposal and restoring the Site.
- 11.113 Any balance of the moneys from the sale shall be paid to the Contractor. If these moneys are less than the Procuring Entity's costs, the Contractor shall pay the outstanding balance to the Procuring Entity.

12 MEASUREMENT AN DEVALUATION

12.1 Works to be Measured

- 12.1.1 The Works shall be measured, and valued for payment, in accordance with this Clause. The Contractor shall show in each application under Sub-Clauses 14.3 [Application for Interim Payment Certificates], 14.10 [Statement on Completion] and 14.11 [Application for Final Payment Certificate] the quantities and other particulars detailing the amounts which he considers to be entitled under the Contract.
- Whenever the Architect requires any part of the Works to be measured, reasonable notice shall be given to the Contractor's Representative, who shall:
 - a) promptly either attend or send another qualified representative to assist the Architect in making the measurement, and
 - b) supply any particulars requested by the Engineer.
- 12.13 If the Contractor fails to attend or send a representative, the measurement made by the Architect shall be accepted as accurate.
- 12.14 Except as otherwise stated in the Contract, wherever any Permanent Works are to be measured from records, these shall be prepared by the Engineer. The Contractor shall, as and when requested, attend to examine and agreed her records with the Engineer, and shall sign the same when agreed. If the Contractor does not attend, the records shall be accepted as accurate.
- 12.15 If the Contractor examines and disagrees the records, and/ or does not sign them as agreed, then the Contractor shall give notice to the Architect of the respects in which the records are asserted to be inaccurate. After receiving this notice, the Architect shall review the records and either confirm or vary

them and certify the payment of the undisputed part. If the Contractor does not so give notice to the Architect within 14 days after being requested to examine the records, they shall be accepted as accurate.

12.2 Method of Measurement

Except as otherwise stated in the Contract:

- a) Measurement shall be made of the net actual quantity of each item of the Permanent Works, and
- b) the method of measurement shall be in accordance with the Bill of Quantities or other applicable Schedules.

123 Evaluation

- Except as otherwise stated in the Contract, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of work done by evaluating each item of work, applying the measurement agreed or determined in accordance with the above Sub-Clauses 12.1 and 12.2 and the appropriate rate or price for the item.
- For each item of work, the appropriate rate or price for the item shall be the rate or price specified for such item in the Contractor, if there is no such item, specified for similar work.
- Any item of work included in the Bill of Quantities for which no rate or price was specified shall be considered as included in other rates and prices in the Bill of Quantities and will not be paid for separately.
- However, for a new item of work, a new rate or price shall be appropriate for such item of work if:
 - a) The work is instructed under Clause 13 [Variations and Adjustments],
 - b) no rate or price is specified in the Contract for this item, and
 - c) no specified rate or price is appropriate because the item of work is not of similar character, or is not executed under similar conditions, as any item in the Contract.
- Each new rate or price shall be derived from any relevant rates or prices in the Contract. If no rates or prices are relevant for the new item of work, it shall be derived from the reasonable Cost of executing such work, prevailing market rates, together with profit, taking account of any other relevant matters.
- 123.6 Until such time as an appropriate rate or price is agreed or determined, the Architect shall determine a provisional rate or price for the purposes of Interim Payment Certificates as soon as the concerned work commences.
- 123.7 Where the contract price is different from the corrected tender price, in order to ensure the contractor is not paid less or more relative to the contract price (*which would be the tender price*), payment valuation certificates and variation orders on omissions and additions valued based on rates in the Bill of Quantities or schedule of rates in the Tender, will be adjusted by a <u>plus or minus</u> percentage. The percentage already worked out during tender evaluation is worked out as follows: (*corrected tender price tender price*)/ *tender price X 100*.

124 Omissions

Whenever the omission of any work forms part (or all) of a Variation, the value of which has not been agreed, if:

- a) The Contractor will incur (or has incurred) cost which, if the work had not been omitted, would have been deemed to be covered by a sum forming part of the Accepted Contract Amount;
- b) The omission of the work will result (or has resulted) in this sum not forming part of the Contract Price; and
- c) this cost is not deemed to be included in the evaluation of any substituted work; then the Contractor shall give notice to the Architect accordingly, with supporting particulars. Upon receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine this cost, which shall be included in the Contract Price.

13 VARIATIONS AND ADJUSTMENTS

13.1 Right to Vary

- 13.1.1 Variations may be initiated by the Architect at any time prior to issuing the Taking-Over Certificate for the Works, either by an instruction or by a request for the Contractor to submit a proposal. No Variation instructed by the Architect under this Clause shall in any way vitiate or in validate the Contract.
- 13.12 The Contractor shall execute and be bound by each Variation, unless the Contractor promptly gives notice

to the Architect stating (with supporting particulars) that (i) the Contractor cannot readily obtain the Goods required for the Variation, or (ii) such Variation triggers a substantial change in the sequence or progress of the Works. Upon receiving this notice, the Architect shall cancel, confirm or vary the instruction.

13.13 Each Variation may include:

- a) changes to the quantities of any item of work included in the Contract (however, such changes do not necessarily constitute a Variation),
- b) changes to the quality and other characteristics of any item of work,
- c) changes to the levels, positions and/ or dimensions of any part of the Works,
- d) omission of any work unless it is to be carried out by others,
- e) any additional work, Plant, Materials or services necessary for the Permanent Works, including any associated Tests on Completion, boreholes and other testing and exploratory work, or
- f) changes to the sequence or timing of the execution of the Works.
- 13.14 The Contractor shall not make any alteration and/or modification of the Permanent Works, unless and until the Architect instructs after obtaining approval of the Procuring Entity.

132. Variation Order Procedure

- Prior to any Variation Order under Sub-Clause 13.1.4 the Architect shall notify the Contractor of the nature and form of such variation. As soon as possible after having received such notice, the Contractor shall submit to the Engineer:
 - a) A description of work, if any, to be performed and a programme for its execution, and
 - b) the Contractor's proposals for any necessary modifications to the Programme according to Sub-Clause 8.3 or to any of the Contractor's obligations under the Contract, and
 - c) the Contractor's proposals for adjustment to the Contract Price.

Following the receipt of the Contractor's submission the Architect shall, after due consultation with the Employer and the Contractor, decide as soon as possible whether or not the variation shall be carried out. If the Architect decides that the variation shall be carried out, he shall issue a Variation Order clearly identified as such in accordance with the Contractor's submission or as modified by agreement.

If the Architect and the Contractor are unable to agree the adjustment of the Contract Price, the provisions of Sub-Clause 13.2.2 shall apply.

1322 Disagreement on Adjustment of the Contract Price

If the Contractor and the Architecture unable to agree on the adjustment of the Contract Price, the adjustment shall be determined in accordance with the rates specified in the Bills of Quantities or Schedule of Daywork Prices. If the rates contained in the Bills of Quantities or Dayworks Prices are not directly applicable to the specific work in question, suitable rates shall be established by the Architect reflecting the level of pricing in the Dayworks Prices. Where rates are not contained in the said Prices, the amount shall be such as is in all the circumstances reasonable, reflecting a market price. Due account shall be taken of any over-or under-recovery of overheads by the Contractor in consequence of the variation. The Contractor shall also be entitled to be paid:

- a) The cost of any partial execution of the Work srendered useless by any such variation,
- b) The cost of making necessary alterations to Plant already manufactured or in the course of manufacture or of any work done that has to be altered in consequence of such a variation,
- c) any additional costs incurred by the Contractor by the disruption of the progress of the Works as detailed in the Programme, and
- d) the net effect of the Contractor's finance costs, including interest, caused by the variation.

The Architect shall on this basis determine the rates or prices to enable on-account payment to be included in certificates of payment.

1323 Contractor to Proceed

On receipt of a Variation Order, the Contractor shall forth with proceed to carry out the variation and be bound to these Conditions in so doing as if such variation was stated in the Contract. The work shall not be delayed pending the granting of an extension of the Time for Completion or an adjustment to the Contract Price under Sub-Clause31.3.

133 Value Engineering

- 13.3.1 The Contractor may, at any time, submit to the Architect written proposal which (in the Contractor's opinion) will, if adopted, (i) accelerate completion, (ii) reduce the cost to the Procuring Entity of executing, maintaining or operating the Works, (iii) improve the efficiency or value to the Procuring Entity of the completed Works, or
 - (iv) otherwise be of benefit to the Procuring Entity.
- 13.3.2 The proposal shall be prepared at the cost of the Contractor and shall include the items listed in Sub-Clause 13.3 [Variation Procedure].
- If a proposal, which is approved by the Engineer, includes a change in the design of part of the Permanent Works, then unless otherwise agreed by both Parties:
 - a) The Contractor shall design this part,
 - b) sub-paragraphs (a) to (d) of Sub-Clause 4.1 [Contractor's General Obligations] shall apply, and
 - c) if this change results in a reduction in the contract value of this part, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine a fee, which shall be included in the Contract Price. This fee shall behalf (50%) of the difference between the following amounts:
 - such reduction in contract value, resulting from the change, excluding adjustments under Sub-Clause 13.8 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost], and
 - ii) the reduction (if any) in the value to the Procuring Entity of the varied works, taking account of any improvement in quality, anticipated life or operational efficiencies.
- 13.3.4 However, if the amount established in item 13.2.3 (c) (i) is less than amount established in item 13.2.3 (c) (ii), there shall not be a fee. However, if the if the amount established in item 13.2.3 (c) (i) is more than amount established in item 13.2.3 (c) (ii), it shall result in a price variation to the Procuring Entity.

134 Variation Procedure for Value Engineering proposal

- 134.1 If the Architect requests a proposal, prior to instructing a Variation, the Contractor shall respond in writinga s soon as practicable, either by giving reasons why he cannot comply (if this is the case) or by submitting:
 - a) A description of the proposed work to be performed and a programme for its execution,
 - b) the Contractor's proposal for any necessary modifications to the programme according to Sub-Clause 8.3 [Programme] and to the Time for Completion, and
 - c) the Contractor's proposal for evaluation of the Variation.
- 13.42 The Architect shall, as soon as practicable after receiving such proposal (under Sub-Clause 13.2 [Value Project Engineering] or otherwise), respond with approval, disapproval or comments. The Contractor shall not delay any work whilst a waiting a response.
- Each instruction to execute a Variation, with any requirements for the recording of Costs, shall be issued by the Architect to the Contractor, who shall acknowledge receipt.
- Each Variation shall be evaluated in accordance with Clause 12 [Measurement and Evaluation], unless the Architect instructs or approves otherwise in accordance with this Clause.

135 Payment in Applicable Currencies

If the Contract provides for payment of the Contract Price in more than one currency, then whenever an adjustment is agreed, approved or determined as stated above, the amount payable in each of the applicable currencies shall be specified. For this purpose, reference shall be made to the actual or expected currency proportions of the Cost of the varied work, and to the proportions of various currencies specified for payment of the Contract Price.

136 Provisional Sums

- 13.6.1 Each Provisional Sum shall only be used, in whole or inpart, in accordance with the Architect instructions, and the Contract Price shall be adjusted accordingly. The total sum paid to the Contractor shall include onlysuch amounts, for the work, supplies or services to which the Provisional Sum relates, as the Architect shall have instructed. For each Provisional Sum, the Architect May instruct:
 - a) Work to be executed (including Plant, Materials or services to be supplied) by the Contractor and valued under Sub-Clause 13.3 [Variation Procedure]; and/or
 - b) Plant, Materials or services to be purchased by the Contractor, from a nominated Subcontractor (as defined in Clause 5 [Nominated Subcontractors]) or otherwise; and for which there shall be included

in the Contract Price:

- i) The actual amounts paid (or due to be paid) by the Contractor, and
- ii) a sum for overhead charges and profit, calculated as a percentage of these actual amounts by applying the relevant percentage rate (if any) stated in the appropriate Schedule. If there is no such rate, the percentage rate stated in **the Special Conditions of Contract** shall be applied.
- 13.62 The Contractor shall, when required by the Engineer, produce quotations, invoices, vouchers and accounts or receipts in substantiation.

137 Dayworks

- 13.7.1 For work of a minor or incidental nature, the Architect may instruct that a Variation shall be executed on a daywork basis. The work shall then be valued in accordance with the Daywork Schedule included in the Contract, and the following procedure shall apply. If a Daywork Schedule is not included in the Contract, this Sub-Clause shall not apply.
- 13.72 Before ordering Goods for the work, the Contractor shall submit quotations to the Engineer. When applying for payment, the Contractor shall submit invoices, vouchers and accounts or receipts for any Goods.
- 13.73 Except for any items for which the Daywork Schedule specifies that payment is not due, the Contractor shall delive reach day to the Architect accurate statements induplicate which shall include the following details of the resources used in executing the previous day's work:
 - a) The names, occupations and time of Contractor's Personnel,
 - b) the identification, type and time of Contractor's Equipment and Temporary Works, and
 - c) the quantities and types of Plant and Materials used.
- One copy of each statement will, if correct, or when agreed, be signed by the Architect and returned to the Contractor. The Contractor shall then submit priced statements of these resources to the Engineer, prior to their inclusion in the next Statement under Sub-Clause 14.3 [Application for Interim Payment Certificates].

138 Adjustments for Changes in Legislation

- 138.1 The Contract Price shall be adjusted to take account of any increase or decrease in Cost resulting from a change in the Laws of Kenya (including the introduction of new Laws and the repeal or modification of existing Laws) or in the judicial or official governmental interpretation of such Laws, made after the Base Date, which affect the Contractor in the performance of obligations under the Contract.
- 13.82 If the Contractor suffers (or will suffer) delay and/or incurs (or will incur) additional Cost as a result of these changes in the Laws or in such interpretations, made after the Base Date, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost, which shall be included in the Contract Price.
- 13.83 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.
- Not withstanding the foregoing, the Contractor shall not be entitled to an extension of time if the relevant delay has already been taken into account in the determination of a previous extension of time and such Cost shall not be separately paid if the same shall already have been taken into account in the indexing of any inputs to the table of adjustment data in accordance with the provisions of Sub-Clause 13.8 [Adjustments for Changes in Cost].

139 Adjustments for Changes in Cost

- 139.1 In this Sub-Clause, "table of adjustment data" means the completed table of adjustment data for local and foreign currencies included in the Schedules. If there is no such table of adjustment data, this Sub-Clause shall not apply.
- If this Sub-Clause applies, the amounts payable to the Contractor shall be adjusted for rises or falls in the cost of labor, Goods and other inputs to the Works, by the addition or deduction of the amounts determined by the formulae prescribed in this Sub-Clause. To the extent that full compensation for any rise or fall in Costs is not covered by the provisions of this or other Clauses, the Accepted Contract Amount shall be

deemed to have included a mounts to cover the contingency of other rises and falls in costs.

1393 The adjustment to be applied to the amount otherwise payable to the Contractor, as valued in accordance with the appropriate Schedule and certified in Payment Certificates, shall be determined from formulae for each of the currencies in which the Contract Price is payable. No adjustment is to be applied to work valued on the basis of Cost or current prices. The formulae shall be of the following general type:

Price Adjustment Formula

Prices shall be adjusted for fluctuations in the cost of inputs only if **provided for in the SCC.** If so provided, the amounts certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amounts due in each currency. A separate formula of the type specified below applies:

P = A + B Im/Io

where:

P is the adjustment factor for the portion of the Contract Price payable.

A and **B** a recoefficients **specified in the SCC**, representing then on adjustable and adjustable portions, respectively, of the Contract Price payable and

I m is the index prevailing at the end of the month being invoiced and **Io**c is the index prevailing 30 days before Bid opening for inputs payable.

NOTE: The sum of the two coefficients A and B should be 1 (one) in the formula for each currency. Normally, both coefficients shall be the same in the formulae for all currencies, since coefficient A, for the non adjustable portion of the payments, is a very approximate figure (usually 0.15) to take account of fixed cost elements or other nonadjustable components. The sum of the adjustments for each currency are added to the Contract Price.

- The cost indices or reference prices stated in the table of adjustment data shall be used. If their source is in doubt, it shall be determined by the Engineer. Forth is purpose, reference shall be made to the values of the indices at stated dates (quoted in the fourth and fifth columns respectively of the table) for the purposes of clarification of the source; although these dates (and thus these values) may not correspond to the base cost indices.
- Incases where the "currency of index" is not the relevant currency of payment, each index shall be converted into the relevant currency of payment at the selling rate, established by the Central Bank of Kenya, of this relevant currency on the above date for which the index is required to be applicable.
- 139.6 Until such time as each current cost index is available, the Architect shall determine a provisional index for the issue of Interim Payment Certificates. When a current cost index is available, the adjustment shall be recalculated accordingly.
- 139.7 If the Contractor fails to complete the Works within the Time for Completion, adjustment of prices there after shall be made using either (i) each index or price applicable on the date 49 days prior to the expiry of the Time for Completion of the Works, or (ii) the current index or price, whichever is more favorable to the Procuring Entity.
- 1398 The weightings (coefficients) for each of the factors of cost stated in the table(s) of adjustment data shall only be adjusted if they have been rendered unreasonable, unbalanced or in applicable, as a result of Variations.

14. CONTRACT PRICE AND PAYMENT

14.1 The Contract Price

- 14.1.1 Unless otherwise stated in the Special Conditions:
 - a) The value of the payment certificate shall be agreed or determined under Sub-Clause 12.3 [Evaluation] and be subject to adjustments in accordance with the Contract;

- b) the Contractor shall pay all taxes, duties and fees required to be paid by him under the Contract, and the Contract Price shall not be adjusted for any of these costs except as stated in Sub-Clause 13.7 [Adjustments for Changes in Legislation];
- c) any quantities which may be set out in the Bill of Quantities or other Schedule are estimated quantities and are not to be taken as the actual and correct quantities:
 - i) of the Works which the Contractor is required to execute, or
 - ii) for the purposes of Clause12 [Measurement and Evaluation]; and
- d) the Contractor shall submit to the Engineer, within 30 days after the Commencement Date, a proposed breakdown of each lump sum price in the Schedules. The Architect may take account of the break down when preparing Payment Certificates but shall not be bound by it.
- 14.12 Notwithstanding the provisions of subparagraph (b), Contractor's Equipment, including essential spare parts there for, imported by the Contractor for the sole purpose of executing the Contract shall not be exempt from the payment of import duties and taxes upon importation.

14.2 Advance Payment

- The Procuring Entity shall make an advance payment, as an interest-free loan for mobilization and cashflow support, when the Contractor submits a guarantee in accordance with this Clause. The total advance payment, the number and timing of instalments (if more than one), and the applicable currencies and proportions, shall be as stated in the **Special Conditions of Contract.**
- Unless and until the Procuring Entity receives this guarantee, or if the total advance payment is not stated in the Special Conditions of Contract, this Sub-Clause shall not apply.
- 14.23 The Architect shall deliver to the Procuring Entity and to the Contractor an Interim Payment Certificate for the advance payment or its first instalment after receiving a Statement (under Sub-Clause 14.3 [Application for Interim Payment Certificates]) and after the Procuring Entity receives (i) the Performance Security in accordance with Sub-Clause 4.2 [Performance Security] and (ii) a guarantee in amounts and currencies equal to the a dvance payment. This guarantee shall be issued by a reputable bank or financial institutions elected by the Contractor and shall be in the form annexed to the Special Conditions or in another form approved by the Procuring Entity.
- The Contractor shall ensure that the guarantee is valid and enforceable until the advance payment has been repaid, but its amount shall be progressively reduced by the amount repaid by the Contractor as indicated in the Payment Certificates. If the terms of the guarantee specify its expiry date, and the advance payment has not been repaid by the date 30 days prior to the expiry date, the Contractor shall extend the validity of the guarantee until the advance payment has been repaid.
- Unless stated otherwise in **the Special Conditions of Contract**, the advance payment shall be repaid through percentage deductions from the interim payments determined by the Architect in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates], as follows:
 - a) Deductions shall commence in the next interim Payment Certificate following that in which the total of all certified interim payments (excluding the advance payment and deductions and repayments of retention) exceeds 30 percent (30%) of the Accepted Contract Amount less Provisional Sums; and
 - b) deductions shall be made at the amortization rate stated in the **Special Conditions of Contract** of the amount of each Interim Payment Certificate (excluding the advance payment and deductions for its repayments as well as deductions for retention money) in the currencies and proportions of the advance payment until such time as the advance payment has been repaid; provided that the advance payment shall be completely repaid prior to the time when 90 percent (90%) of the Accepted Contract Amount less Provisional Sums has been certified for payment.
- If the advance payment has not been repaid prior to the issue of the Taking-Over Certificate for the Works or prior to termination under Clause 15 [Termination by Procuring Entity], Clause 16 [Suspension and Termination by Contractor] or Clause 19 [Force Majeure] (as the case may be), the whole of the balance then outstanding shall immediately become due and in case of termination under Clause 15 [Termination by Procuring Entity], except for Sub-Clause 14.2.7 [Procuring Entity's Entitlement to Termination for Convenience], payable by the Contractor to the Procuring Entity.

143 Application for Interim Payment Certificates

- 143.1 The Contractor shall submit a Statement (in number of copies indicated in the **Special Conditions of Contract**) to the Architect after the end of each month, in a form approved by the Engineer, showing in detail the amounts to which the Contractor considers itself to be entitled, together with supporting documents which shall include there porton the progress during this month in accordance with Sub-Clause4.21 [Progress Reports].
- 14.32 The Statement shall include the following items, as applicable, which shall be expressed in the various currencies in which the Contract Price is payable, in the sequence listed:
 - a) the estimated contract value of the Works executed and the Contractor's Documents produced up to the end of the month (including Variations but excluding items described in sub-paragraphs (b) to (g) below);
 - b) any amounts to be added and deducted for changes in legislation and changes in cost, in accordance with Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost];
 - c) any amount to be deducted for retention, calculated by applying the percentage of retention stated in the Special Conditions of Contract to the total of the above amounts, until the amount so retained by the Procuring Entity reaches the limit of Retention Money (if any) stated in the Special Conditions of Contract;
 - d) any amounts to be added for the advance payment and (if more than one instalment) and to be deducted for its repayments in accordance with Sub-Clause 14.2 [Advance Payment];
 - e) any amounts to be added and deducted for Plant and Materials in accordance with Sub-Clause 14.5 [Plant and Materials intended for the Works];
 - f) any other additions or deductions which may have become due under the Contractor otherwise, including those under Clause 20 [Claims, Disputes and Arbitration]; and
 - g) the deduction of amounts certified in all previous Payment Certificates.

144 Schedule of Payments

- 14.4.1 If the Contract includes a schedule of payments specifying the instalments in which the Contract Price will be paid, then unless otherwise stated in this schedule:
 - a) The instalments quoted in this schedule of payments shall be the estimated contract values for the purposes of sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates];
 - b) Sub-Clause 14.5 [Plant and Materials intended for the Works] shall not apply; and
 - c) If these instalments are not defined by reference to the actual progress achieved in executing the Works, and if actual progress is found to be less or more than that on which this schedule of payments was based, then the Architect may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine revised instalments, which shall take account of the extent to which progress is less or more than that on which the instalments were previously based.
- 14.4.2 If the Contract does not include a schedule of payments, the Contractor shall submit non-binding estimates of the payments which he expects to become due during each quarterly period. The first estimate shall be submitted within 42 days after the Commencement Date. Revised estimates shall be submitted at quarterly intervals, until the Taking-Over Certificate has been issued for the Works.

14.5 Plant and Materials intended for the Works

- 145.1 If this Sub-Clause applies, Interim Payment Certificates shall include, under sub-paragraph (e) of Sub-Clause 14.3, (i) an amount for Plant and Materials which have been sent to the Site for incorporation in the Permanent Works, and (ii) a reduction when the contract value of such Plant and Materials is included as part of the Permanent Works under sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates].
- 1452 If the lists referred to in sub-paragraphs (b)(i) or (c)(i) below are not included in the Schedules, this Sub-Clause shall not apply.
- 1453 The Architect shall determine and certify each addition if the following conditions a resatisfied:
 - a) The Contractor has:

- i) kept satisfactory records (including the orders, receipts, Costs and use of Plant and Materials) which are available for inspection, and
- submitted statement of the Cost of acquiring and delivering the Plant and Materials to the Site, supported by satisfactory evidence;

and either:

- b) the relevant Plant and Materials:
 - i) are those listed in the Schedules for payment when shipped,
 - ii) have been shipped to Kenya, enroute to the Site, in accordance with the Contract; and
 - iii) are described in a clean shipped bill of lading or other evidence of shipment, which has been submitted to the Architect together with evidence of payment of freight and insurance, any other documents reasonably required, and a bank guarantee in a form and issued by an entity approved by the Procuring Entity in amounts and currencies equal to the amount due under this Sub-Clause: this guarantee may be in a similar form to the form referred to in Sub-Clause14.2 [Advance Payment] and shall be valid until the Plant and Materials are properly stored on Site and protected against loss, damage or deterioration; or
- c) the relevant Plant and Materials:
 - i) are those listed in the Schedules for payment when delivered to the Site, and
 - ii) have been delivered to and are properly stored on the Site, are protected against loss, damage or deterioration and appear to be in accordance with the Contract.
- 145.4 The additional amount to be certified shall be the equivalent of eighty percent (80%) of the Architect determination of the cost of the Plant and Materials (including delivery to Site), taking account of the documents mentioned in this Sub-Clause and of the contract value of the Plant and Materials.
- The currencies for this additional amount shall be the same as those in which payment will become due when the contract value is included under sub-paragraph (a) of Sub-Clause 14.3 [Application for Interim Payment Certificates]. At that time, the Payment Certificate shall include the applicable reduction which shall be equivalent to, and in the same currencies and proportions as, this additional amount for the relevant Plant and Materials.

14.6 Issue of Interim Payment Certificates

- No amount will be certified or paid until the Procuring Entity has received and approved the Performance Security. Thereafter, the Architect shall, within 30 days after receiving a Statement and supporting documents, deliver to the Procuring Entity and to the Contractor an Interim Payment Certificate which shall state the amount which the Architect fairly determines to be due, with all supporting particulars for any reduction or withholding made by the Architect on the Statemen tif any.
- 14.6.2 However, prior to issuing the Taking-Over Certificate for the Works, the Architect shall not be bound to issue an Interim Payment Certificate in an amount which would (after retention and other deductions) be less than the minimum amount of Interim Payment Certificates (if any) stated in the Special Conditions of Contract. In this event, the Architect shall give notice to the Contractor accordingly.
- 14.63 An Interim Payment Certificate shall not be withheld for any other reason, although:
 - a) if anything supplied or work done by the Contractor is not in accordance with the Contract, the cost of rectification or replacement may be withheld until rectification or replacement has been completed; and/or
 - b) if the Contractor was or is failing to perform any work or obligation in accordance with the Contract, and had been so notified by the Engineer, the value of this work or obligation may be withheld until the work or obligation has been performed.
- 4.6.4 The Architect may in any Payment Certificate make any correction or modification that should properly be made to any previous Payment Certificate. A Payment Certificate shall not be deemed to indicate the Architect acceptance, approval, consent or satisfaction.

14.7 Payment

14.7.1 The Procuring Entity shall pay to the Contractor:

- a) The advance payment shall be paid within 60 days after signing of the contract by both parties or within 60 days after receiving the documents in accordance with Sub-Clause 4.2 [Performance Security] and Sub-Clause 14.2 [Advance Payment], which ever is later;
- b) The amount certified in each Interim Payment Certificate within 60 days after the Architect Issues Interim Payment Certificate; and
- c) the amount certified in the Final Payment Certificate within 60 days after the Procuring Entity Issues Interim Payment Certificate; or after determination of any disputed amount shown in the Final Statement in accordance with Sub-Clause 16.2 [Terminationby Contractor].
- 14.72 Payment of the amount due in each currency shall be made into the bank account, nominated by the Contractor, in the payment country (forth is currency) specified in the Contract.

14.8 Delayed Payment

- 14.8.1 If the Contractor does not receive payment in accordance with Sub-Clause 14.7 [Payment], the Contractor shall be entitled to receive financing charges (simple interest) monthly on the amount unpaid during the period of delay. This period shall be deemed to commence on the date for payment specified in Sub-Clause 14.7 [Payment], irrespective (in the case of its sub-paragraph (b) of the date on which any Interim Payment Certificate is is sub-paragraph.
- 14.8.2 These financing charges shall be calculated at the annual rate of three percentage points above the mean rate of the Central Bank in Kenya of the currency of payment, or if not available, the inter bank offered rate, and shall be paid in such currency.
- 14.8.3 The Contractor shall be entitled to this payment without formal notice and certification, and without prejudice to any other right or remedy.

14.9 Payment of Retention Money

- When the Taking-Over Certificate has been issued for the Works, the first half of the Retention Money shall be certified by the Architect for payment to the Contractor. If a Taking-Over Certificate is issued for a Section or part of the Works, a proportion of the Retention Money shall be certified and paid. This proportion shall behalf (50%) of the proportion calculated by dividing the estimated contract value of the Section or part, by the estimated final Contract Price.
- 14.9.2 Promptly after the latest of the expiry dates of the Defects Liability Periods, the outstanding balance of the Retention Money shall be certified by the Architect for payment to the Contractor. If a Taking-Over Certificate was issued for a Section, a proportion of the second half of the Retention Money shall be certified and paid promptly after the expiry date of the Defects Notification Period for the Section. This proportion shall behalf (50%) of the proportion calculated by dividing the estimated contract value of the Section by the estimated final Contract Price.
- However, if any work remains to be executed under Clause 11 [Defects Liability], the Architects hall be entitled to withhold certification of the estimated cost of this work until it has been executed.
- When calculating these proportions, no account shall be taken of any adjustments under Sub-Clause 13.7 [Adjustments for Changes in Legislation] and Sub-Clause 13.8 [Adjustments for Changes in Cost].
- Unless otherwise stated in the Special Conditions, when the Taking-Over Certificate has been issued for the Works and the first half of the Retention Money has been certified for payment by the Engineer, the Contractor shall be entitled to substitute a Retention Money Security guarantee, in the form annexed to the Special Conditions or in another form approved by the Procuring Entity and issued by a reputable bank or financial institution selected by the Contractor, for the second half of the Retention Money.
- 14.9.6 The Procuring Entity shall return the Retention Money Security guarantee to the Contractor within 14 days after receiving a copy of the Completion Certificate.

14.10 Statement at Completion

14.10.1 Within 84 days after receiving the Taking-Over Certificate for the Works, the Contractor shall submit to

the Architect three copies of a Statement at completion with supporting documents, in accordance with Sub-Clause 14.3 [Application for Interim Payment Certificates], showing:

- a) the value of all work done in accordance with the Contract up to the date stated in the Taking-Over Certificate for the Works,
- b) any further sums which the Contractor considers to be due, and
- an estimate of any other amounts which the Contractor considers will become due to him under the Contract. Estimated amounts shall be shown separately in this Statement at completion.
- 14.10.2 The Architect shall then certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates].

14.11 Application for Final Payment Certificate

- 14.11.1 Within 60 days after receiving the Completion Certificate, the Contractor shall submit, to the Engineer, six copies of a draft final statement with supporting documents showing in detail in a form approved by the Engineer:
 - a) The value of all work done in accordance with the Contract, and
 - b) Any further sums which the Contractor considers to be due to him under the Contractor otherwise.
- 14.11.2 If the Architect disagrees with or cannot verify any part of the draft final statement, the Contractor shall submit such further information as the Architect may reasonably require within 30 days from receipt of said draft and shall make such changes in the draft as may be agreed between them. The Contractor shall then prepare and submit to the Architect the final statement as agreed. This agreed statement is referred to in these Conditions as the "Final Statement".
- 14.11.3 However, if, following discussions between the Architect and the Contractor and any changes to the draft final statement which are agreed, it be comes evident that a dispute exists, the Architect shall deliver to the Procuring Entity (with a copy to the Contractor) an Interim Payment Certificate for the agreed parts of the draft final statement. Thereafter, if the dispute is finally resolved under Sub-Clause 20.4 [Obtaining Dispute Board's Decision] or Sub-Clause 20.5 [Amicable Settlement], the Contractor shall then prepare and submit to the Procuring Entity (with a copy to the Engineer) a Final Statement.

14.12 Discharge

When submitting the Final Statement, the Contractor shall submit a discharge which confirms that the total of the Final Statement represents full and final settlement of all moneys due to the Contractor under or in connection with the Contract. This discharge may state that it becomes effective when the Contractor has received the Performance Security and the out standing balance of this total, in which event the discharge shall be effective on such date.

14.13 Issue of Final Payment Certificate

- 14.13.1 Within 30days after receiving the Final Statement and discharge in accordance with Sub-Clause 14.11 [Application for Final Payment Certificate] and Sub-Clause 14.12 [Discharge], the Architect shall deliver, to the Procuring Entity and to the Contractor, the Final Payment Certificate which shall state:
 - a) The amount which he fairly determines is finally due, and
 - b) After giving credit to the Procuring Entity for all amounts previously paid by the Procuring Entity and for all sums to which the Procuring Entity is entitled, the balance (if any) due from the Procuring Entity to the Contractor or from the Contractor to the Procuring Entity, as the case may be.
- 14.13.2 If the Contractor has not applied for a Final Payment Certificate in accordance with Sub-Clause 14.11 [Application for Final Payment Certificate] and Sub-Clause 14.12 [Discharge], the Architect shall request the Contractor to do so. If the Contractor fails to submit an application within a period of 30 days, the Architect shall issue the Final Payment Certificate for such amount as he fairly determines to be due.

14.14 Cessation of Procuring Entity's Liability

- 14.14.1 The Procuring Entity shall not be liable to the Contractor for any matter or thing under or in connection with the Contract or execution of the Works, except to the extent that the Contractor shall have included an amount expressly for it:
 - a) in the Final Statement and also,

- b) (except for matters or things arising after the issue of the Taking-Over Certificate for the Works) in the Statement at completion described in Sub-Clause 14.10 [Statement at Completion].
- 14.14.2 However, this Sub-Clause shall not limit the Procuring Entity's liability under his in demnification obligations, or the Procuring Entity's liability in any case of fraud, deliberate default or reckless misconduct by the Procuring Entity.

14.15 Currencies of Payment

The Contract Price shall be paid in the currency or currencies named in the Schedule of Payment Currencies. If more than one currency is so named, payments shall be made as follows:

- a) If the Accepted Contract Amount was expressed in Local Currency only:
 - i) the proportions or amounts of the Local and Foreign Currencies, and the fixed rates of exchange to be used for calculating the payments, shall be as stated in the Schedule of Payment Currencies, except as otherwise agreed by both Parties;
 - ii) payments and deductions under Sub-Clause 13.5 [Provisional Sums] and Sub-Clause 13.7 [Adjustments for Changes in Legislation] shall be made in the applicable currencies and proportions; and
 - iii) otherpaymentsanddeductions under sub-paragraphs (a) to (d) of Sub-Clause 14.3 [Application for Interim Payment Certificates] shall be made in the currencies and proportions specified in sub-paragraph (a) (i) above;
- b) payment of the damages specified in the Special Conditions of Contract, shall be made in the currencies and proportions specified in the Schedule of Payment Currencies;
- c) other payments to the Procuring Entity by the Contractor shall be made in the currency in which the sum was expended by the Procuring Entity, or in such currency as may be agreed by both Parties;
- d) if any amount payable by the Contractor to the Procuring Entity in a particular currency exceeds the sum payable by the Procuring Entity to the Contractor in that currency, the Procuring Entity may recover the balance of this amount from the sums otherwise payable to the Contractor in other currencies; and
- e) if no rates of exchange are stated in the Schedule of Payment Currencies, they shall be those prevailing on the Base Date and determined by the Central Bank of Kenya.

15. TERMINATION BY PROCURING ENTITY

15.1 Notice to correct any defects or failures

If the Contractor fails to carry out any obligation under the Contract, the Architect may by notice require the Contractor to make good the failure and to remedy it within 30 days.

15.2 Termination by Procuring Entity

- 152.1 The Procuring Entity shall be entitled to terminate the Contract if the Contractor breaches the contract based on following circumstances which shall include but not limited to:
 - a) fails to comply with Sub-Clause 4.2 [Performance Security] or with a notice under Sub-Clause 15.1 [Notice to Correct],
 - b) abandons the Works or otherwise plainly demonstrates the intention not to continue performance of his obligations under the Contract,
 - c) without reasonable excuse fails:
 - i) to proceed with the Works in accordance with Clause 8 [Commencement, Delays and Suspension], or
 - ii) to comply with a notice issued under Sub-Clause 7.5 [Rejection] or Sub-Clause 7.6 [Remedial Work], within 30 days after receiving it,
 - d) subcontracts the major part or whole of the Works or assigns the Contract without the consent of the Procuring Entity,
 - e) becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of theseacts or events, or
 - f) gives or offers to give (directly or indirectly) to any person any bribe, gift, gratuity, commission or

- other thing of value, as an induce mentor reward:
- i) for doing or for bearing to do any action in relation to the Contract, or
- ii) for showing or for bearing to show favor or disfavor to any person in relation to the Contract, or
- iii) if any of the Contractor's Personnel, agents or Subcontractors gives or offers to give (directly or indirectly) to any person any such induce mentor reward as is described in this sub-paragraph (f). However, lawful inducements and rewards to Contractor's Personnel shall not entitle termination, or
- g) If the contract or repeatedly fails to remedy delivers defective work,
- h) based on reasonable evidence, has engaged in Fraud and Corruption as defined in paragraph 2.2 of the Appendix B to these General Conditions, incompeting for or in executing the Contract.
- In any of these events or circumstances, the Procuring Entity may, upon giving 14 days' notice to the Contractor, terminate the Contract and expel the Contractor from the Site. However, in the case of subparagraph (e) or (f) or (g) or (h), the Procuring Entity may by notice terminate the Contract immediately.
- 1523 The Procuring Entity's election to terminate the Contract shall not prejudice any other rights of the Procuring Entity, under the Contractor otherwise.
- The Contractor shall then leave the Site and deliver any required Goods, all Contractor's Documents, and other design documents made by or for him, to the Engineer. However, the Contractor shall use his best efforts to comply immediately with any reasonable instructions included in the notice (i) for the assignment of any subcontract, and (ii) for the protection of life or property or for the safety of the Works.
- After termination, the Procuring Entity may complete the Works and/ or arrange for any other entities to do so. The Procuring Entity and these entities may then use any Goods, Contractor's Documents and other design documents made by or on behalf of the Contractor.
- The Procuring Entity shall then give notice that the Contractor's Equipment and Temporary Works will be released to the Contractor at or near the Site. The Contractor shall promptly arrange their removal, at the risk and cost of the Contractor. However, if by this time the Contractor has failed to make a payment due to the Procuring Entity, these items may be sold by the Procuring Entity in order to recover this payment. Any balance of the proceeds shall then be paid to the Contractor.

153 Valuation at Date of Termination

As soon as practicable after a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine the value of the Works, Goods and Contractor's Documents, and any other sums due to the Contractor for work executed in accordance with the Contract.

15.4 Payment after Termination

After a notice of termination under Sub-Clause 15.2 [Termination by Procuring Entity] has taken effect, the Procuring Entity may:

- a) Proceed in accordance with Sub-Clause 2.5 [Procurin Entity's Claims],
- b) withhold further payments to the Contractor until the costs of execution, completion and remedying of any defects, damages for delay in completion (if any), and all other costs incurred by the Procuring Entity, have been established, and/or
- c) recover from the Contractor any losses and damages incurred by the Procuring Entity and any extra costs of completing the Works, after allowing for any sum due to the Contractor under Sub-Clause 15.3 [Valuation at Date of Termination]. After recovering any such losses, damages and extra costs, the Procuring Entity shall pay any balance to the Contractor.

155 Procuring Entity's Entitlement to Termination for Convenience

The Procuring Entity shall be entitled to terminate the Contract, at any time at the Procuring Entity's convenience, by giving notice of such termination to the Contractor. The termination shall take effect 30 days after the later of the dates on which the Contractor receives this notice or the Procuring Entity returns the Performance Security. The Procuring Entity shall not terminate the Contract under this Sub-Clausein order to execute the Works itself or to arrange for the Works to be executed by another contractor or to avoid a termination of the Contract by the Contractor under Clause 16.2 [Termination by Contractor]. After this termination, the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment] and shall be paid in accordance with Sub-Clause 16.4 [Payment on

Termination].

15.6 Fraud and Corruption

The Contractor shall ensure compliance with the Kenya Government's Anti-Corruption Laws and its prevailing sanctions.

15.7 Corrupt gifts and payments of commission

- 15.7.1 The Contractor shall not;
 - a) Offer or give or agree to give to any person in the service of the Procuring Entity any gift or consideration of any kind as an inducement or reward for doing or for bearing to door for having done or for borne to do any act in relation to the obtaining or execution of this or any other Contract for the Procuring Entity or for showing or for bearing to show favor or disfavor to any person in relation to this or any other contract for the Procuring Entity.
 - b) Enter into this or any other contract with the Procuring Entity in connection with which commission has been paid or agreed to be paid by him or on his behalf or to his knowledge, unless before the Contract is made particulars of any such commission and of the terms and conditions of any agreement for the payment there of have been disclosed in writing to the Procuring Entity.
- 15.72 Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the provisions of the Public Procurement and Asset Disposal Act (2015) and the Anti-Corruption and Economic Crimes Act (2003) of the Laws of Kenya.

16 SUSPENSION AND TERMINATION BY CONTRACTOR

16.1 Contractor's Entitlement to Suspend Work

- 16.1.1 If the Architect fails to certify in accordance with Sub-Clause 14.6 [Issue of Interim Payment Certificates] or Sub-Clause 14.7 [Payment], or not receiving instructions that would enable the contractor to proceed with the works in accordance with the program, the Contractor may, after giving not less than 30 days' notice to the Procuring Entity, suspend work (or reduce the rate of work) unless and until the Contractor has received the Payment Certificate, reasonable evidence or payment, as the case may beand as described in the notice.
- 16.12 The Contractor's action shall not prejudice his entitlements to financing charges under Sub-Clause 14.8 [Delayed Payment] and to termination under Sub-Clause 16.2 [Terminationby Contractor].
- 16.13 If the Contractor subsequently receives such Payment Certificate, evidence or payment (as described in the relevant Sub-Clause and in the above notice) before giving a notice of termination, the Contractor shall resume normal working as soon as is reasonably practicable.
- 16.14 If the Contractor suffers delay and/ori neurs Cost as a result of suspending work (or reducing the rate of work) in accordance with this Sub-Clause, the Contractor shall give notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) payment of any such Cost-plus profit, which shall be included in the Contract Price.
- After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

163 Termination by Contractor

- 163.1 The Contractor shall be entitled to terminate the Contract if:
 - a) the Architect fails, within 60 days after receiving a Statement and supporting documents, to issue the relevant Payment Certificate,
 - the Contractor does not receive the amount due under an Interim Payment Certificate within 90 days after the expiry of the time stated in Sub-Clause1 4.7 [Payment] within which payment is to be made (except for deductions in accordance with Sub-Clause 2.5 [Procuring Entity's Claims]),

- the Procuring Entity substantially fails to perform his obligations under the Contract in such manner as to materially and adversely affect the economic balance of the Contract and/or the ability of the Contractor to perform the Contract,
- d) a prolonged suspension affects the whole of the Works as described in Sub-Clause 8.11 [Prolonged Suspension], or
- e) the Procuring Entity becomes bankrupt or insolvent, goes into liquidation, has a receiving or administration order made against him, compounds with his creditors, or carries on business under a receiver, trustee or manager for the benefit of his creditors, or if any act is done or event occurs which (under applicable Laws) has a similar effect to any of these acts or events.
- f) the Contractor does not receive the Architect instruction recording the agreement of both Parties on the fulfilment of the conditions for the Commencement of Works under Sub-Clause 8.1 [Commencement of Works].
- In any of these events or circumstances, the Contractor may, upon giving 14 days' notice to the Procuring Entity, terminate the Contract. However, in the case of sub-paragraph (f) or (g), the Contractor may by notice terminate the Contract immediately.
- 1633 The Contractor's election to terminate the Contract shall not prejudice any other rights of the Contractor, under the Contractor otherwise.

164 Cessation of Work and Removal of Contractor's Equipment

After a notice of termination under Sub-Clause 15.5 [Procuring Entity's Entitlement to Termination for Convenience], Sub-Clause 16.2 [Termination by Contractor] or Sub-Clause 19.6 [Optional Termination, Payment and Release] has taken effect, the Contractor shall promptly:

- a) cease all further work, except for such work as may have been instructed by the Architect for the protection of life or property or for the safety of the Works,
- b) hand over Contractor's Documents, Plant, Materials and other work, for which the Contractor has received payment, and
- c) remove all other Goods from the Site, except as necessary for safety, and leave the Site.

Payment on Termination

After a notice of termination under Sub-Clause 16.2 [Termination by Contractor] has taken effect, the Procuring Entity shall promptly:

- a) Return the Performance Security to the Contractor,
- b) pay the Contractor in accordance with Sub-Clause 19.6 [Optional Termination, Payment and Release], and
- c) pay to the Contractor the amount of any loss or damage sustained by the Contractor as a result of this termination.

17. RISK AND RESPONSIBILITY

17.1 Indemnities

- 17.1.1 The Contractor shall indemnify and hold harmless the Procuring Entity, the Procuring Entity's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of:
 - a) Bodily injury, sickness, disease or death, of any person what so ever arising outo for in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless attributable to any negligence, willful actor breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any of their respective agents, and
 - b) damage to or loss of any property, real or personal (other than the Works), to the extent that such damage or loss arises out of or in the course of or by reason of the Contractor's design (if any), the execution and completion of the Works and the remedying of any defects, unless and to the extent that any such damage or loss is attributable to any negligence, willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.
- 17.12 The Procuring Entity shall indemnify and hold harmless the Contractor, the Contractor's Personnel, and their respective agents, against and from all claims, damages, losses and expenses (including legal fees and expenses) in respect of (1) bodily injury, sickness, disease or death, which is attributable to any negligence,

willful act or breach of the Contract by the Procuring Entity, the Procuring Entity's Personnel, or any of their respective agents, and (2) the matters for which liability may be excluded from insurance cover, as described in sub-paragraphs (d)(i), (ii) and (iii) of Sub-Clause 18.3 [Insurance Against Injury to Persons and Damage to Property], unless and to the extent that any such damage or loss is attributable to any negligence, willful actor breach of the Contract by the contractor, the contractor's Personnel, their respective agents, or anyone directly or indirectly employed by any of them.

17.2 Contractor's Care of the Works

- The Contractor shall take full responsibility for the care of the Works and Goods from the Commencement Date until the Taking-Over Certificate is issued (or is deemed to be issued under Sub-Clause 10.1 [Taking Over of the Works and Sections]) for the Works, when responsibility for the care of the Works shall pass to the Procuring Entity. If a Taking-Over Certificate is issued (or is so deemed to be issued) for any Section or part of the Works, responsibility for the care of the Section or part shall then pass to the Procuring Entity.
- After responsibility has accordingly passed to the Procuring Entity, the Contractor shall take responsibility for the care of any work which is outstanding on the date stated in a Taking-Over Certificate, until this outstanding work has been completed.
- If any loss or damage happens to the Works, Goods or Contractor's Documents during the period when the Contract or is responsible for their care, from any cause not listed in Sub-Clause 17.3 [Procuring Entity's Risks], the Contractor shall rectify the loss or damage at the Contractor's risk and cost, so that the Works, Goods and Contractor's Documents conform with the Contract.
- 17.24 The Contractor shall be liable for any loss or damage caused by any actions performed by the Contractor after a Taking-Over Certificate has been issued. The Contractor shall also be liable for any loss or damage which occurs after a Taking-Over Certificate has been issued and which arose from a previous event for which the Contractor was liable.

173 Procuring Entity's Risks

The risks referred to in Sub-Clause 17.4 [Consequences of Procuring Entity's Risks] below, in so far as they directly affect the execution of the Works in Kenya, are:

- a) War hostilities (whether war be declared or not),
- b) rebellion, riot, commotion or disorder, terrorism, sabotage by persons other than the Contractor's Personnel,
- c) explosive materials, ionizing gradiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such explosives, radiation or radio-activity,
- d) pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds,
- e) use or occupation by the Procuring Entity of any part of the Permanent Works, except as may be specified in the Contract,
- f) design of any part of the Works by the Procuring Entity's Personnel or by others for whom the Procuring Entity is responsible, and
- g) any operation of the forces of nature which is Unforeseeable or against which an experienced contractor could not reasonably have been expected to have taken adequate preventive precautions.

17.4 Consequences of Procuring Entity's Risks

- 174.1 If and to the extent that any of the risks listed in Sub-Clause 17.3 above results in loss or damage to the Works, Goods or Contractor's Documents, the Contractor shall promptly give notice to the Architect and shall rectify this loss or damage to the extent required by the Engineer.
- 17.42 If the Contractor suffers delay and/ or incurs Cost from rectifying this loss or damage, the Contractor shall give a further notice to the Architect and shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
- (a) An extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
- (b) Payment of any such Cost, which shall be included in the Contract Price. In the case of sub-paragraphs (e) and (g) of Sub-Clause 17.3 [Procuring Entity's Risks], Accrued Costs shall be payable.
- 1743 After receiving this further notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

17.5 Intellectual and Industrial Property Rights

- 175.1 In this Sub-Clause, "infringement" shall refer to an infringement (or alleged infringement) of any patent, registered design, copyright, trade mark, trade name, trade secret or other intellectual or industrial property right relating to the Works; and "claim" shall refer to a claim (or proceedings pursuing a claim) alleging an infringement.
- Whenever a Party does not give notice to the other Party of any claim within 30 days of receiving the claim, the first Party shall be deemed to have waived any right to indemnity under this Sub-Clause.
- 1753 The Procuring Entity shall indemnify and hold the Contractor harmless against and from any claim alleging an infringement which is or was:
 - a) An un avoidable result of the Contractor's compliance with the Contract, or
 - b) A result of any Works being used by the Procuring Entity:
 - i) for a purpose other than that indicated by, or reasonably to be inferred from, the Contract, or
 - ii) in conjunction with anything not supplied by the Contractor, unless such use was disclosed to the Contractor prior to the Base Date or is stated in the Contract.
- 175.4 The Contractor shall indemnify and hold the Procuring Entity harmless again stand from any other claim which arises out of or in relation to (i) the manufacture, use, sale or import of any Goods, or (ii) any design for which the Contractor is responsible.
- If a Party is entitled to be indemnified under this Sub-Clause, the indemnifying Party may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it. The other Party shall, at the request and cost of the indemnifying Party, assist in contesting the claim. This other Party (and its Personnel) shall not make any admission which might be prejudicial to the indemnifying Party, unless the indemnifying Party failed to take over the conduct of any negotiations, litigation or arbitration upon being requested to do so by such other Party.
- 175.6 For operation and maintenance of any plant or equipment installed, the contractor shall grant a non-exclusive and non-transferable license to the Procuring Entity under the patent, utility models ,or other intellectual rights owned by the contractor or a third party from whom the contract or has received the rights to grant sub-licenses and shall also grant to the Procuring Entity a non-exclusive and non-transferable rights (without the rights to sub-license) to use the know-how and other technical information disclosed to the contract or under the contract. Nothing contained here-in shall be construed as transferring ownership of any patent, utility model, trademark, design, copy right, know-how or other intellectual rights from the contractor or any other third party to the Procuring Entity.

17.6 Limitation of Liability

- Neither Party shall be liable to the other Party for loss of use of any Works, loss of profit, loss of any contractor for any in director consequential loss or damage which may be suffered by the other Party in connection with the Contract, other than as specifically provided in Sub-Clause 8.7 [Delay Damages]; Sub-Clause 11.2 [Cost of Remedying Defects]; Sub-Clause 15.4 [Payment after Termination]; Sub-Clause 16.4 [Payment on Termination]; Sub-Clause 17.1 [Indemnities]; Sub-Clause 17.4(b) [Consequences of Procuring Entity's Risks] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights].
- The total liability of the Contractor to the Procuring Entity, under or in connection with the Contract other than under Sub-Clause 4.19 [Electricity, Water and Gas], Sub-Clause 4.20 [Procuring Entity's Equipment and Free- Issue Materials], Sub-Clause 17.1 [Indemnities] and Sub-Clause 17.5 [Intellectual and Industrial Property Rights], shall not exceed the sum resulting from the application of a multiplier (less or greater than one) to the Accepted Contract Amount, as stated in **the Special Conditions of Contract**, or (if such multiplier or other sum is not so stated) the Accepted Contract Amount.
- 17.63 This Sub-Clause shall not limit liability in any case of fraud, deliberate default or reckless misconduct by the defaulting Party.

17.7 Use of Procuring Entity's Accommodation/Facilities

17.7.1 The Contractor shall take full responsibility for the care of the Procuring Entity provided accommodation and facilities, if any, as detailed in the Specification, from the respective dates of hand-over to the Contractor until cessation of occupation (where hand-over or cessation of occupation may take place after the date stated in the Taking-Over Certificate for the Works).

17.72 If any loss or damage happens to any of the above items while the Contractor is responsible for their care arising from any cause whatsoever other than those for which the Procuring Entity is liable, the Contractor shall, at his own cost, rectify the loss or damage to the satisfaction of the Engineer.

18 INSURANCE

18.1 General Requirements for Insurances

- 18.1.1 In this Clause, "insuring Party" means, for each type of insurance, the Party responsible for effecting and maintaining the insurance specified in the relevant Sub-Clause.
- 18.1.2 Wherever the Contractor is the insuring Party, each insurance shall be effected with insurers and in terms approved by the Procuring Entity. These terms shall be consistent with any terms agreed by both Parties before the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause.
- 18.13 Wherever the Procuring Entity is the insuring Party, each insurance shall be effected with insurers and in terms acceptable to the Contractor. These terms shall be consistent with any terms agreed by both Parties before the date of the Letter of Acceptance. This agreement of terms shall take precedence over the provisions of this Clause.
- 18.1.4 If a policy is required to indemnify joint insured, the cover shall apply separately to each insured as though a separate policy had been issued for each of the joint insured. If a policy indemnifies additional joint insured, namely in addition to the insured specified in this Clause, (i) the Contractor shall act under the policy on behalf of these additional joint insured except that the Procuring Entity shall act for Procuring Entity's Personnel, (ii) additional joint insured shall not be entitled to receive payments directly from the insurer or to have any other direct dealings with the insurer, and (iii) the insuring Party shall require all additional joint insured to comply with the conditions stipulated in the policy.
- 18.15 Each policy insuring against loss or damage shall provide for payments to be made in the currencies required to rectify the loss or damage. Payments received from insurers shall be used for the rectification of the loss or damage.
- 18.16 The relevant insuring Party shall, within the respective periods stated in **the Special Conditions of Contract** (calculated from the Commencement Date), submit to the other Party:
 - a) Evidence that the insurances described in this Clause have been affected, and
 - b) copies of the policies for the insurances described in Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment] and Sub-Clause 18.3 [Insurance against Injury to Persons and Damage to Property].
- 18.1.7 When each premium is paid, the insuring Party shall submit evidence of payment to the other Party. Whenever evidence or policies are submitted, the insuring Party shall also give notice to the Engineer.
- 18.18 Each Party shall comply with the conditions stipulated in each of the insurance policies. The insuring Party shall keep the insurers informed of any relevant changes to the execution of the Works and ensure that insurance is maintained in accordance with this Clause.
- 18.19 Neither Party shall make any material alteration to the terms of any insurance without the prior approval of the other Party. If an insurer makes (or at tempts to make) any alteration, the Party first notified by the insurer shall promptly give notice to the other Party.
- 18.1.10 If the insuring Party fails to effect and keep in force any of the insurances it is required to effect and maintain under the Contractor fails to provide satisfactory evidence and copies of policies in accordance with this Sub- Clause, the other Party may (at its option and without prejudice to any other right or remedy) effect insurance for the relevant coverage and pay the premiums due. The insuring Party shall pay the amount of these premiums to the other Party, and the Contract Price shall be adjusted accordingly.
- 18.1.11 Nothing in this Clause limits the obligations, liabilities or responsibilities of the Contractor or the Procuring Entity, under the other terms of the Contractor otherwise. Any amounts not insured or not recovered from the insurers shall be borne by the Contractor and/or the Procuring Entity.
- 18.1.12 Procuring Entity in accordance with these obligations, liabilities or responsibilities. However, if the insuring Party fails to effect and keep in force an insurance which is available and which it is required to

effect and maintain under the Contract, and the other Party neither approves the omission nor effects insurance for the coverage relevant to this default, any moneys which should have been recoverable under this insurance shall be paid by the insuring Party.

- 18.1.13 Payments by one Party to the other Party shall be subject to Sub-Clause 2.5 [Procuring Entity's Claims] or Sub-Clause 20.1 [Contractor's Claims], as applicable.
- 18.1.14 The Contractor shall be entitled to place all insurance relating to the Contract (including, but not limited to the insurance referred to Clause 18) with insurers from any eligible source country.

182 Insurance for Works and Contractor's Equipment

- The insuring Party shall insure the Works, Plant, Material sand Contractor's Documents for not less than the full reinstatement cost including the costs of demolition, removal of debris and professional fees and profit. This insurance shall be effective from the date by which the evidence is to be submitted under subparagraph (a) of Sub-Clause 18.1 [General Requirements for Insurances], until the date of issue of the Taking-Over Certificate for the Works.
- 1822 The insuring Party shall maintain this insurance to provide cover until the date of issue of the Performance Certificate, for loss or damage for which the Contractor is liable arising from a cause occurring prior to the issue of the Taking-Over Certificate, and for loss or damage caused by the Contractor in the course of any other operations (including those under Clause 11 [Defects Liability]).
- The insuring Party shall insure the Contractor's Equipment for not less than the full replacement value, including delivery to Site. For each item of Contractor's Equipment, the insurance shall be effective while it is being transported to the Site and until it is no longer required as Contractor's Equipment.
- 1824 Unless otherwise stated in the Special Conditions, insurances under this Sub-Clause:
 - a) Shal lbe effected and maintained by the Contractor as insuring Party,
 - b) shall be in the joint names of the Parties, who shall be jointly entitled to receive payments from the insurers, payments being held or allocated to the Party actually bearing the costs of rectifying the loss or damage,
 - c) shall cover all loss and damage from any cause not listed in Sub-Clause 17.3 [Procuring Entity's Risks],
 - d) shall also cover, to the extent specifically required in the tendering documents of the Contract, loss or damage to a part of the Works which is attributable to the use or occupation by the Procuring Entity of another part of the Works, and loss or damage from the risks listed in sub-paragraphs (c), (g) and (h)of Sub-Clause 17.3 [Procuring Entity's Risks], excluding (in each case) risks which are not insurable at commercially reasonable terms, with deductibles per occurrence of not more than the amount stated in the Special Conditions of Contract (if an amount is not so stated,t his sub-paragraph (d) shall not apply), and
 - e) may however exclude loss of, damage to, and reinstatement of:
 - i) a part of the Works which is in a defective condition due to a defect in its design, materials or workmanship (but cover shall include any other parts which are lost or damaged as a direct result of this defective condition and not as described in sub-paragraph (ii) below),
 - ii) apart of the Works which is lost or damaged inorder to reinstate any other part of the Works if this other part is in a defective condition due to a defect in its design, materials or workmanship,
 - iii) apart of the Works which has been taken over by the Procuring Entity, except to the extent that the Contractor is liable for the loss or damage, and
 - iv) Goods while they are not in Kenya, subject to Sub-Clause 14.5 [Plant and Materials intended for the Works].
- If, more than one year after the Base Date, the cover described in sub-paragraph (d) above ceases to be available at commercially reasonable terms, the Contractor shall (as insuring Party) give notice to the Procuring Entity, with supporting particulars. The Procuring Entity shall then (i) be entitled subject to Sub-Clause 2.5 [Procuring Entity's Claims] to payment of an amount equivalent to such commercially reasonable terms as the Contractor should have expected to have paid for such cover, and (ii) be deemed, unless he obtains the cover at commercially reasonable terms, to have approved the omission under Sub-Clause 18.1 [General Requirements for Insurances].

183 Insurance against Injury to Persons and Damage to Property

- 183.1 The insuring Party shall insure against each Party's liability for any loss, damage, death or bodily injury which may occur to any physical property (except things insured under Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment]) or to any person (except persons insured under Sub-Clause 18.4 [Insurance for Contractor's Personnel]), which may arise out of the Contractor's performance of the Contract and occurring before the issue of the Performance Certificate.
- This insurance shall be for a limit per occurrence of not less than the amount stated in **the Special**Conditions of Contract, with no limit on the number of occurrences. If an amount is not stated in the Special Conditions of Contract, this Sub-Clause shall not apply.
- 1833 Unless otherwise stated in the Special Conditions, the insurances specified in this Sub-Clause:
 - a) Shall be effected and maintained by the Contractor as insuring Party,
 - b) shall be in the joint names of the Parties,
 - c) shall be extended to cover liability for all loss and damage to the Procuring Entity's property (except things insured under Sub-Clause 18.2) arising out of the Contractor's performance of the Contract, and
 - d) may however exclude liability to the extent that it arises from:
 - i) the Procuring Entity's right to have the Permanent Works executed on, over, under, in or
 - ii) through any land, and to occupy this land for the Permanent Works,
 - iii) damage which is an unavoidable result of the Contractor's obligations to execute the
 - iv) Works and remedy any defects, and
 - v) a cause listed in Sub-Clause 17.3 [Procuring Entity's Risks], except to the extent that cover is available at commercially reasonable terms.

184 Insurance for Contractor's Personnel

- 18.4.1 The Contractor shall effect and maintain insurance against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractor or any other of the Contractor's Personnel.
- 1842 The insurance shall cover the Procuring Entity and the Architect against liability for claims, damages, losses and expenses (including legal fees and expenses) arising from injury, sickness, disease or death of any person employed by the Contractoror any othe rof the Contractor's Personnel, except that this insurance may exclude losses and claims to the extent that they arise from any act or neglect of the Procuring Entity or of the Procuring Entity's Personnel.
- 18.4.3 The insurance shall be maintained in full force and effect during the whole time that these personnel are assisting in the execution of the Works. For a Subcontractor's employees, the insurance may be effected by the Subcontractor, but the Contractor shall be responsible for compliance with this Clause.

19. FORCE MAJEURE

19.1 Definition of Force Majeure

- 19.1.1 In this Clause, "Force Majeure" means an exceptional event or circumstance:
 - a) Which is beyond a Party's control,
 - b) Which such Party could not reasonably have provided against before entering into the Contract,
 - c) which, having arisen, such Party could not reasonably have avoided or over come, and
 - d) which is not substantially attributable to the other Party.
- 19.12 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:
 - a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies,
 - b) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war,
 - c) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel,
 - d) munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity, and
 - e) natural catastrophes such as earthquake, hurricane, typhoon or volcanic activity.

19.2 Notice of Force Majeure

192.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force

Majeure, then it shall give notice to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure.

- 1922 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.
- Not withstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.

193 Duty to Minimize Delay

Each Party shall at all times use all reasonable endeavors to minimize any delay in the performance of the Contract as a result of Force Majeure. A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.

19.4 Consequences of Force Majeure

- 194.1 If the Contractor is prevented from performing his substantial obligations under the Contract by Force Majeure of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], and suffers delay and/ or incurs Cost by reason of such Force Majeure, the Contractor shall be entitled subject to Sub-Clause 20.1 [Contractor's Claims] to:
 - a) an extension of time for any such delay, if completion is or will be delayed, under Sub-Clause 8.4 [Extension of Time for Completion], and
 - b) if the event or circumstance is of the kind described in sub-paragraphs (i) to (iv) of Sub-Clause 19.1 [Definition of Force Majeure] and, in sub-paragraphs (ii) to (iv), occurs in Kenya, payment of any such Cost, including the costs of rectifying or replacing the Works and/or Goods damaged or destroyed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in Sub-Clause 18.2 [Insurance for Works and Contractor's Equipment].
- 1942 After receiving this notice, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine these matters.

195 Force Majeure Affecting Subcontractor

If any Subcontractor is entitled under any contract or agreement relating to the Works to relief from force majeure on terms additional to or broader than those specified in this Clause, such additional or broader force majeure events or circumstances shall not excuse the Contractor's non-performance or entitle him to relief under this Clause.

19.6 Optional Termination, Payment and Release

- If the execution of substantially all the Works in progress is prevented for a continuous period of 84 days by reason of Force Majeure of which notice has been given under Sub-Clause 19.2 [Notice of Force Majeure], or for multiple periods which total more than 140 days due to the same notified Force Majeure, then either Party may give to the other Party a notice of termination of the Contract. In this event, the termination shall take effect 7 days after the notice is given, and the Contractor shall proceed in accordance with Sub-Clause 16.3 [Cessation of Work and Removal of Contractor's Equipment].
- 19.62 Upon such termination, the Architect shall determine the value of the work done and issue a Payment Certificate which shall include:
 - a) The amounts payable for any work carried out for which a price is stated in the Contract;
 - b) the Cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Procuring Entity when paid for by the Procuring Entity, and the Contractor shall place the same at the Procuring Entity's disposal;
 - c) other Cost or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;
 - d) the Cost of removal of Temporary Works and Contractor's Equipment from the Site and the return of these items to the Contractor's works in his country (or to any other destination at no greater cost); and
 - e) the Cost of repatriation of the Contractor's staff and lab or employed wholly in connection with the Works at the date of termination.

19.7 Release from Performance

Not withstanding any other provision of this Clause, if any event or circumstance outside the control of the Parties (including, but not limited to, Force Majeure) arises which makes it impossible or unlawful for either or both Parties to fulfil its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other Party of such event or circumstance:

- a) The Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract, and
- b) The sum payable by the Procuring Entity to the Contractor shall be the same as would have been payable under Sub-Clause 19.6 [Optional Termination, Payment and Release] if the Contract had been terminated under Sub-Clause 19.6.

20. SETTLEMENT OF CLAIMS AND DISPUTES

20.1 Contractor's Claims

- 20.1.1 If the Contractor considers itself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give Notice to the Engineer, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than 30 days after the Contractor became aware, or should have become aware, of the event or circumstance.
- 20.12 If the Contractor fails to give notice of a claim within such period of 30 days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Procuring Entity shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub-Clause shall apply.
- 20.13 The Contractor shall also submit any other notices which are required by the Contract, and supporting particulars for the claim, all as relevant to such event or circumstance.
- 20.1.4 The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at an other location acceptable to the Engineer. Without admitting the Procuring Entity's liability, the Architect may, after receiving any notice under this Sub-Clause, monitor the record-keeping and/ or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Architect to inspect all these records and shall (if instructed) submit copies to the Engineer.
- 20.15 Within 42 days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Engineer, the Contractor shall send to the Architect fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/ or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:
 - a) This fully detailed claim shall be considered as interim;
 - b) The Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/ or amount claimed, and such further particulars as the Architect may reasonably require; and
 - c) The Contractor shall send a final claim within 30 days after the end of the effects resulting from the event or circumstance, or within such other period as may be proposed by the Contractor and approved by the Engineer.
- 20.1.6 Within 42 days after receiving a Notice of a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Architect and approved by the Contractor, the Architect shall respond with approval, or with disapproval and detailed comments. He may also request any necessary further particulars but shall nevertheless give his response on the principles of the claim within the above defined time period.
- 20.1.7 Within the above defined period of 42 days, the Architect shall proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the extension (if any) of the Time for Completion (before or after its expiry) in accordance with Sub-Clause 8.4 [Extension of Time for Completion], and/or (ii) the additional payment (if any) to which the Contractor is entitled under the Contract.
- 20.18 Each Payment Certificate shall include such additional payment for any claim as has been reasonably substantiated as due under the relevant provision of the Contract. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate.

- 20.19 If the Architect does not respond within the time frame defined in this Clause, either Party may consider that the claim is rejected by the Architect and any of the Parties may refer the dispute for amicable settlement in accordance with Clause 20.3.
- 20.1.10 The requirements of this Sub-Clause are in addition to those of any other Sub-Clause which may apply to a claim. If the Contractor fails to comply with this or another Sub-Clause in relation to any claim, any extension of time and/ or additional payment shall take account of the extent (if any) to which the failure has prevented or prejudiced proper investigation of the claim, unless the claim is excluded under the second paragraph of this Sub-Clause 20.3.

202 Procuring Entity's Claims

- If the Procuring Entity considers itself to be entitled to any payment under any Clause of these Conditions or otherwise in connection with the Contract, and/or to any extension of the Defects Notification Period, the Procuring Entity or the Architect shall give notice and particulars to the Contractor. However, notice is not required for payments due under Sub-Clause 4.19 [Electricity, Water and Gas], under Sub-Clause 4.20 [Procuring Entity's Equipment and Free-Issue Materials], or for other services requested by the Contractor.
- The notice shall be given as soon as practicable and no longer than 30 days after the Procuring Entity became aware, or should have become aware, of the event or circumstances giving rise to the claim. A notice relating to any extension of the Defects Notification Period shall be given before the expiry of such period.
- The particulars shall specify the Clause or other basis of the claim and shall include substantiation of the amount and/or extension to which the Procuring Entity considers itself to be entitled in connection with the Contract. The Architect shall then proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine (i) the amount (if any) which the Procuring Entity is entitled to be paid by the Contractor, and/or (ii) the extension (if any) of the Defects Notification Period in accordance with Sub-Clause 11.3 [Extension of Defects Notification Period].
- This amount may be included as a deduction in the Contract Price and Payment Certificates. The Procuring Entity shall only be entitled to set off against or make any deduction from an amount certified in a Payment Certificate, or to otherwise claim against the Contractor, in accordance with this Sub-Clause.

203 Amicable Settlement

Where a notice of a claim has been given, both Parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both Parties agree otherwise, the Party giving a notice of a claim in accordance with Sub-Clause 20.1 above should move to commence arbitration after 60 days from the day on which a notice of a claim was given, even if no attempt at an amicable settlement has been made.

20.4 Matters that may be referred to arbitration

Notwithstanding anything stated herein the following matters may be referred to arbitration before the practical completion of the Works or abandonment of the Works or termination of the Contract by either party:

- a) Whether or not the issue of an instruction by the Architect is empowered by these Conditions.
- b) Whether or not a certificate has been improperly withheld or is not in accordance with these Conditions.
- c) Any dispute arising in respect risks arising from matters referred to in Clause 17.3 and Clause 19.
- e) All other matters shall only be referred to arbitration after the completion or alleged completion of the Works or termination or alleged termination of the Contract, unless the Procuring Entity and the Contractor agree otherwise in writing.

20.5 Arbitration

- 205.1 Any claim or dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with Sub-Clause 20.3 shall be finally settled by arbitration.
- No arbitration proceedings shall be commenced on any claim or dispute where notice of a claim or dispute has not been given by the applying party within ninety days of the occurrence or discovery of the matter or issue giving rise to the dispute.
- 2053 Not withstanding the issue of a notice as stated above, the arbitration of such a claim or dispute shall not

commence unless an attempt has in the first instance been made by the parties to settle such claim or dispute amicably with or without the assistance of third parties. Proof of such attempt shall be required.

- 2054 The Arbitrator shall, without prejudice to the generality of his powers, have powers to direct such measurements, computations, tests or valuations as may in his opinion be desirable in order to determine the rights of the parties and assess and a ward any sums which ought to have been the subject of or included in any certificate.
- The Arbitrator shall, without prejudice to the generality of his powers, have powers to open up, review and revise any certificate, opinion, decision, requirement or notice and to determine all matters in dispute which shall be submitted to him in the same manner as if no such certificate, opinion, decision require mentor notice had been given.
- 205.6 The arbitrators shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Engineer, relevant to the dispute. Nothing shall disqualify representatives of the Parties and the Architect from being called as a witness and giving evidence before the arbitrators on any matter whatsoever relevant to the dispute.
- 205.7 Neither Party shall be limited in the proceedings before the arbitrators to the evidence, or to the reasons for dissatisfaction given in its Notice of Dissatisfaction.
- 205.7 Arbitration may be commenced prior to or after completion of the Works. The obligations of the Parties, and the Architect shall not be altered by reason of any arbitration being conducted during the progress of the Works.
- 205.8 The terms of the remuneration of each or all the members of Arbitration shall be mutually agreed upon by the Parties when agreeing the terms of appointment. Each Party shall be responsible for paying one-half of this remuneration.

20.6 Arbitration with National Contractors

- 20.6.1 If the Contract is with national contractors, arbitration proceedings will be conducted in accordance with the Arbitration Laws of Kenya. In case of any claim or dispute, such claim or dispute shall be notified in writing by either party to the other with a request to submit it to arbitration and to concur in the appointment of an Arbitrator within thirty days of the notice. The dispute shall be referred to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed, on the request of the applying party, by the Chairman or Vice Chairman of any of the following professional institutions;
 - i) Architectural Association of Kenya
 - ii) Institute of Quantity Surveyors of Kenya
 - iii) Association of Consulting Engineers of Kenya
 - iv) Chartered Institute of Arbitrators (Kenya Branch)
 - v) Institution of Engineers of Kenya
- 20.62 The institution written to first by the aggrieved party shall take precedence over all other institutions.

20.7 Arbitration with Foreign Contractors

- 207.1 Arbitration with foreign contractors shall be conducted in accordance with the arbitration rules of the United Nations Commission on International Trade Law (UNCITRAL); or with proceedings administered by the International Chamber of Commerce (ICC) and conducted under the ICC Rules of Arbitration; by one or more arbitrators appointed in accordance with said arbitration rules.
- The place of arbitration shall be a location specified in the SCC; and the arbitration shall be conducted in the language for communications defined in Sub-Clause 1.4 [Law and Language].

20.8 Alternative Arbitration Proceedings

Alternatively, the Parties may refer the matter to the Nairobi Centre for International Arbitration (NCIA) which offers a neutral venue for the conduct of national and international arbitration with commitment to providing institutional support to the arbitral process.

20.9 Failure to Comply with Arbitrator's Decision

- 209.1 The award of such Arbitrator shall be final and binding up on the parties.
- In the event that a Party fails to comply with a final and binding Arbitrator's decision, then the other Party may, without prejudice to any other rights it may have, refer the matter to a competent court of law.

20.10 Contract operations to continue

Notwithstanding any reference to arbitration herein,

- 1.1.1 the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree; and
- 1.12 the Procuring Entity shall pay the Contractor any monies due the Contractor.

Section IX - Special Conditions of Contract

The following Special Conditions shall supplement the GCC. Whenever there is a conflict, the provisions

here in shall prevail over those in the GCC.

Conditions	Sub- Clause	Data				
Part A - Contract Data						
Procuring Entity's name and address	Heading	State Department of Housing and Urban Development				
Name and Reference No. of the Contract	Heading and 1.1	Proposed Construction of Social Housing And Associated Infrastructure In Kasarani Constituency, Nairobi County – Lot 4 Tender No. MLPWHUD/SDHUD/AHP /385/2023-2024 – LOT 4				
Time for Completion	1.1.	36 Months				
Defects Liability Period		12 Months				
Defects Notification Period	1.1	14 days				
Time for the Parties entering into a	1.6	Within 30days				
Contract Agreement						
Time for access to the Site	2.1.1	No later than the Commencement Date, and not later than 14 days after Commencement Date				
Engineers Name and address	Heading and 3.1.1	Director, Housing Department. State Department for Housing and Urban Development, P.O Box 30119-00100, Nairobi, Kenya				
Architect Duties and Authority	3.1.6 (b) (ii)	Variations resulting in an increase of the Accepted Contract Amount shall be as guided by the Public Procurement and Asset Disposal Act, 2015 and all amendments thereafter and attendant Regulations.				
Contractor's Representative's name	4.3.1	[insert the name of the Contractor's Representative agreed by the Procuring Entity prior to Contract signature]				
Performance Security	4.2.1	The performance security will be in the form of a Bank Demand Guarantee (From banks categorized as "Large"by the central bank of kenya which can be obtained from the central bank website via this link: https://www.centralbank.go.ke/bank-supervision/directory-of-licensed-commercial-banks-mortgage-finance-institutions-and-non-operating-holding-companies/) in the amount(s) of 10% percent of the Accepted Contract Amount and in the same currency(ies) of the Accepted Contract Amount.				
Normal working hours	6.5	0800 Hrs to 1700 Hrs				
Commencement Date	8.1.1	14 day after site hand over				
Delay damages for the Works	8.7 & 14.15(b)	0.05% of the Contract Price per day. If Sections are to be used, refer to Table: Summary of Sections below				
Maximum amount of delay damages	8.7.1	10% of the final Contract Price.				
Provisional Sums	13.6. (b)(ii)	[If there are Provisional Sums, insert a percentage for adjustment of Provisional Sums]				
Adjustments for Changes in Cost	13.9	N/A				

Conditions	Sub- Clause	Data				
Total advance payment	Clause 14.2.1	Up to 10% of the Accepted Contract Amount secured an advance Bank guarantee (From banks categorized a "Large" by the central bank of kenya which can be obtained from the central bank website via this link: https://www.centralbank.go.ke/banksupervision/directory-of-licensed-commercial-banksmortgage-finance-institutions-and-non-operating-holdicompanies/) payable in the currencies and proportion which the Accepted Contract Amount maybe be payable and the Accepted Contract Amount maybe be payable formation of the Accepted Contract Amount maybe be payable and the Accepted Contract Amount maybe be payable formation of the Accepted Contract Amount maybe be payable formation of the Accepted Contract Amount maybe be payable formation of the Accepted Contract Number formation of the Contract of the Bank as per the Contract of the Security and hoarding application for an advance payment. Early works are as follows; 1. Mobilization on site 1. Mobilization on site 2. Security and hoarding 3. Site office 3. Site office 3. Sanitation/storage 4. Access Roads 2. Setting out 3. Site clearance In addition, the Contractor shall be required to submit this signed completed agreement accompanied by an advance payment guarant in support therefore before payment is disbursed. Disbursement Schedule Submitted by Contractor items egglication of the payment of the suppliers on my behalf. 1. ICONTRACTOR NAME], commit tha				
		1. 2. 3. 4. I, [CONTI line with to bank to ma	RACTOR NAM he above disb ake payment t	ME], commit t	Cash related items eg (labour)	Contractor all be used in
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Conditions	Sub- Clause	Data
Minimum Amount of Interim	14.6.2	Payments shall be as per Payment Schedule as annexed to
Payment Certificates		these Special Conditions of Contract
Publishing source of commercial	14.8	Shall be in accordance with the prevailing mean
interest rates for financial charges		Commercial lending rate as determined by the Central
in case of delayed payment		Bank of Kenya.
Key Personnel names	16.9.1	[insert the name of each Key Personnel agreed by the
		Procuring Entity prior to Contract signature]
Maximum total liability of the	17.6.2	The product of 1.1 times the Accepted Contract Amount.
Contractor to the Procuring Entity		
Periods for submission of	18.1.6	14 days after execution of contract
insurance:	18.1.0	14 days after execution of contract
a. evidence of insurance.		
b. relevant policies		
Maximum amount of deductibles		
for insurance of the Procuring	18.2.4 (d)	N/A
Entity's risks		
Minimum amount of third-party	10 2 2	N/A
insurance	18.3.2	N/A
The place of arbitration	20.7.2	Nairobi, Kenya

SCHEDULE OF PAYMENTS

This Schedule of Payments is an annex to the Special Conditions of Contract above.

In accordance with Clause 14.4.1 of the GCC, the schedule of payments below specifies the instalments and milestones in which the Contract Price will be paid;

Milestone	Description	Payment as a percentage of the Contract Price (Column C)	Retention	Advance	Advance Recovery	Cumulative Payment	Estimated Value of Works Executed before payment of the Milestone in Column C
1	Advance Payment		-1%	10%		9.00%	
2	Completion of Substructures	15%	-2%			22.50%	20%
3	Completion of Superstructure	20%	-2%		-4.50%	36.00%	35%
4	Partial completion of Finishes	25%	-3%		-4.50%	54.00%	75%
5	Issuance of Taking-Over Certificate and Occupation Certificate	40%	-4%			90.00%	100%
6	Expiry of Defects Liability Period (DLP)	0%	10%			100.00%	-
	Total	100%					100%

DEFINITION OF PAYMENT MILESTONES

- 1. 15% Completion of Substructures: Means upon attainment of 20% of the Contract Price and successful completion of the substructures as defined in the Bills of Quantities and drawings, which typically includes and is not limited to all activities relating and associated to the initial contract documentation, mobilization, site establishment, site supervision, site clearance, excavation, site preparation, foundation construction (such as footings, rafts, piles, foundation walls or slabs), and any below-ground structural components required for the stability and integrity of the buildings. The render to plinths and associated finishes shall form part of the finishes as described below.
- 2. 20% Completion of Superstructure: Upon attainment of 35% of the Contract Price and successful completion of the superstructure, which includes and is not limited to the running contractual documentation and site supervision up to the completion of Superstructure, construction of the concrete superstructure works as defined in the BQs and drawings, walls, floor slabs, roof slabs, and any other above-ground components that form the main frame and enclosure of the building. The superstructure phase also encompasses the first fix for mechanical and electrical works typically required to be fitted up to the superstructure level, including but not limited first fix plumbing and electrical works, HVAC systems, and other essential building services, and other essential building services systems required at the superstructure level.
- 3. 25% Partial Completion of Finishes: Upon attainment of 75% the Contract Price.
- 4. **40% Issuance of Taking-Over Certificate and Occupation Certificate**: Upon Issuance of Taking-Over Certificate and Occupation Certificate.
- 5. Expiry of Defects Liability Period (DLP): Upon the conclusion of the defects liability period (DLP). The 10% retention monies can be released at practical completion upon application by the Contractor and provision of a security in the form of a Retention Money Security (From banks categorized as "Large"by the central bank of kenya which can be obtained from the central bank website via this link : https://www.centralbank.go.ke/bank-supervision/directory-of-licensed-commercial-banks-mortgage-finance-institutions-and-non-operating-holding-companies/) (Form No.8) payable in the currencies and proportions in which the Accepted Contract Amount maybe be payable.

NOTES:

- i) The Contract is not a lumpsum contract and Payments shall be based on re-measured works. If the actual progress is found to be less or more than that on which this schedule of payments was based, then the Architect may proceed in accordance with Sub-Clause 3.5 [Determinations] to agree or determine revised instalments based on the Architect's Certificates, which shall take account of the extent to which progress is less or more than that on which the instalments were previously based. The payment amounts specified for each milestone represent maximum budgets allocated for that milestone. The Architect will determine the value of work completed for each milestone based on the bills of quantities and remeasured works. The payment due in the last milestone (40% Issuance of Taking-Over Certificate and Occupation Certificate) shall be based on the amount due to the Contractor as per the Final Statement.
- ii) The Advance Payment of up to 10% of the Accepted Contract Amount shall be secured by an Advance Bank Security (Form No. 7) payable in the currencies and proportions in which the Accepted Contract Amount maybe be payable. Should the Contractor opt to phase the project, advance payments shall be disbursed in installments corresponding pro-rata to the amounts allocated for each phase to be initiated. However, the Contractor shall furnish a one-off Advance Bank guarantee (as described above) covering the entire Contract Amount at the commencement of the contract.
- iii) The Advance Payment of up to 10% of the Accepted Contract Amount shall be recovered in two equal instalments through percentage deductions in the scheduled payments as follows:
 - a) The first 50% deduction shall commence in the scheduled Interim Payment Certificate due after the "Completion of Superstructure" and
 - b) The second 50% deduction shall be made in the scheduled Interim Payment Certificate due after the "Partial completion of Finishes"
- iv) If the advance payment has not been repaid prior to the issue of the Taking-Over Certificate for the Works or prior to termination under Clause 15 [Termination by Procuring Entity], Clause 16 [Suspension and Termination by Contractor] or Clause 19 [Force Majeure] (as the case may be), the whole of the balance then outstanding shall immediately become due. In case of termination under Clause 15 [Termination by Procuring Entity], except for Sub-Clause 14.2.7 [Procuring Entity's Entitlement to Termination for Convenience], the whole of the balance then outstanding shall be payable by the Contractor to the Procuring Entity.
- v) Payment for completed milestones will be made accordingly, with no payment for partially completed defined activities in a milestone.
- vi) In the event that the Contractor devises a phased program for the project, the said phases must be fully autonomous, clearly demarcated, and accompanied by corresponding site layouts. The Project's phases are not to exceed four (4) in number. The program submitted in accordance with Clause 8.3 of the General Conditions of Contract must demonstrate the phasing plan/strategy. The phases and the phasing plan/strategy shall be subject to the approval of the Architect.
- vii) If the project is phased, each transition to the next phase should be based on the completion of habitable housing units with all requisite statutory approvals in place, and the construction works in subsequent phases shall not interfere with the use / enjoyment and become a nuisance to the handed-over habitable units.
- viii) Subsequent phases will not be paid until the preceding phase is completed as defined under Clause 7 above.
- ix) In the event of termination of the contract, any compensation will be determined based on the remeasured work completed and approved by the Architect as at the date of termination.
- x) Each Provisional Sum shall only be used, in whole or in part, in accordance with the Architect's instructions, and the Contract Price shall be adjusted accordingly. The total sum paid to the

Contractor shall include only such actual direct, reasonable and properly incurred and substantiated amounts, for the work, supplies or services to which the Provisional Sum relates, as the Architect shall have instructed.

- xi) The supporting documents under Clause 14.3.2 shall include the following items, as applicable
 - a. the achievement of any Milestones which entitle the Contractor to Milestone Payments set out in the Schedule of Payment in the amounts specified there in ;
 - b. the deduction of amounts certified in all previous Payment Certificates; and
 - c. any other additions or deductions which may have become due under the Contract or otherwise, including those under Clause 20 [Settlement of Claims and Disputes].

SECTION X - CONTRACT FORMS

FORM No. 1 - NOTIFICATION OF INTENTION TO AWARD

FORM NO. 2 – REQUEST FOR REVIEW

FORM No. 3-LETTEROF AWARD

FORM No. 4 - CONTRACT AGREEMENT

FORM No. 5 - PERFORMANCE SECURITY [Option 1 - Unconditional Demand Bank Guarantee]

FORM No. 6- PERFORMANCE SECURITY [Option 2– Performance Bond]

FORM No. 7 - ADVANCE PAYMENT SECURITY

FORM No. 8 - RETENTION MONEY SECURITY

FORM No 1: NOTIFICATION OF INTENTION TOAWARD OF CONTRACT

This Notification of Award shall be sent to each Tenderer that submitted a Tender and was not successful. Send this Notification to the Tenderer's Authorized Representative named in the Tender Information Form on the format below.

FORMAT

1.	For the attention of Tenderer's Authorized Representative				
	i)	Name: [insert Authorized Representative's name]			
	ii)	Address: [insert Authorized Representative's Address]			
	iii)	Telephone: [insert Authorized Representative's telephone/fax numbers]			
	iv)	Email Address: [insert Authorized Representative's email address]			
		PORTANT: insert the date that this Notification is transmitted to Tenderers. The Notification must be sent [I Tenderers simultaneously. This means on the same date and as close to the same time as possible.]			
2.	Date	e of transmission: [email] on [date] (local time)			
	This	Notification is sent by (Name and designation)			
3.	Notification of Award				
	i)	Procuring Entity: [insert the name of the ProcuringEntity]			
	ii)	Project: [insert name ofproject]			
	iii)	Contract title: [insert the name of thecontract]			
	iv)	ITT No: [insert ITT reference number from ProcurementPlan]			
		Notification of Intention to Award (Notification) notifies you of our decision to award the above contract. transmission of this Notification begins the Standstill Period. During the Standstill Period, you may:			
4.		uest a debriefing in relation to the evaluation of your tender by submitting a Procurement-related aplaint in relation to the decision to award the contracts.			
	a)	The successful tenderers			
	i)	Name of successful Tender			
	ii)	Address of the successful Tender			
	iii) Contract price of the successful Tender Kenya Shillings		Contract price of the successful Tender Kenya Shillings		
	(in words				
		b) The reasons for your tender being unsuccessful are as follows:			
		c) OtherTenderers			
		nes of all Tenderers that submitted a Tender. If the Tender's price was evaluated include the evaluated price as the Tender price as read out.			

as

SNo	Name of Tender	Tender Price	Tender's evaluated	One Reason Why Not Evaluated
		as read out	price (Note a)	
1				
2				
3				
4				
5				

(Note a) State NE if not evaluated

5. How to request a debriefing

- a) DEADLINE: The dead line to request a debriefing expires at midnight on [insert date] (local time).
- b) You may request a debriefing in relation to the results of the evaluation of your Tender. If you decide to request a debriefing your written request must be made within three (5) Business Days of receipt of this Notification of Intention to Award.
- c) Provide the contract name, reference number, name of the Tenderer, contact details; and address the request for debriefing as follows:
 - i) Attention: [insert full name of person, if applicable]
 - ii) Title/position: [insert title/position]
 - iii) Agency: [insert name of Procuring Entity]
 - iv) Email address: [insert email address]
- d) If your request for a debriefing is received within the 3 Days deadline, we will provide the debriefing within five (3) Business Days of receip tof your request. If we are unable to provide the debriefing within this period, the Standstill Period shall be extended by five (3) Days after the date that the debriefing is provided. If this happens, we will notify you and confirm the date that the extended Standstill Period will end.
- e) The debriefing may be in writing, by phone, video conference call or in person. We shall promptly advise you in writing how the debriefing will take place and confirm the date and time.
- f) If the deadline to request a debriefing has expired, you may still request a debriefing. In this case, we will provide the debriefing as soon as practicable, and normally no later than fifteen (15) Days from the date of publication of the Contract Award Notice.

6. How to make a complaint

- a) Period: Procurement-related Complaint challenging the decision to award shall be submitted by midnight, [insert date] (local time).
- b) Provide the contract name, reference number, name of the Tenderer, contact details; and address the Procurement-related Complaint as follows:
 - i) Attention: [insert full name of person, if applicable]
 - ii) Title/position: [insert title/position]
 - iii) Agency: [insert name of Procuring Entity]
 - iv) Email address: [insert email address]
- c) At this point in the procurement process, you may submit a Procurement-related Complaint challenging the decision to award the contract. You do not need to have requested, or received, a debriefing before making this complaint. Your complaint must be submitted within the Standstill Period and received by us before the Standstill Period ends.
- d) Further information: For more information refer to the Public Procurement and Disposals Act 2015 and its Regulations a vailable from the Website www.ppra.go.ke.

You should read these documents before preparing and submitting your complaint.

- e) There are four essential requirements:
 - i) You must be an 'interested party'. In this case, that means a Tenderer who submitted a Tender in this tendering process and is the recipient of a Notification of Intention to Award.
 - ii) The complaint can only challenge the decision to award the contract.
 - iii) You must submit the complaint within the period stated above.
 - iv) You must include, in your complaint, all of the information required to support your complaint.

7. Standstill Period

- i) DEADLINE: The Standstill Period is due to end at midnight on [insert date] (local time).
- ii) The Standstill Period lasts ten (14) Days after the date of transmission of this Notification of Intention to Award.
- iii) The Standstill Period may be extended as stated in paragraph Section 5(d) above.

If you have any questions regarding this Notification please do not hesitate to contact us. On behalf of the Procuring Entity:

Signature:				
Name:				
Title/position:				
	_			
Telephone:	_			

FORM NO. 2- REQUEST FOR REVIEW

Board Secretary

FORM FOR REVIEW (r.203(1))

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD		
APPLICATION NOOF20		
BETWEEN		
APPLICANT		
AND		
RESPONDENT (Procuring Entity)		
Request for review of the decision of the		
REQUEST FOR REVIEW		
I/Wep. O. Box No		
1.		
2.		
By this memorandum, the Applicant requests the Board for an order/orders that:		
1.		
2.		
SIGNED(Applicant) Dated onday of		
FOR OFFICIAL USE ONLY Lodged with the Secretary Public Procurement Administrative Review Board onday of20		
SIGNED		

FORM NO 3: LETTER OF AWARD

	letterhead paper of the Procuring Entity]		
,	[date]		
	To: [name and address of the Contractor]		
	This is to notify you that your Tender dated [date] for execution of the [name of the Contract and identification number, as given in the Contract Data] for the Accepted Contract Amount [amoun tin numbers and words] [name of currency], as corrected and modified in accordance with the Instructions to Tenderers, is here by accepted by		
	You are requested to furnish the Performance Security within in accordance with the Conditions of Contract, using, for that purpose, one of the Performance Security Forms included in Section VIII, Contract Forms, of the Tender Document.		
	Authorized Signature:		
	Name and Title of Signatory:		
	Name of Procuring Entity:		
	Attachment: Contract Agreement:		

FORM NO 4: CONTRACT AGREEMENT

		GREEMENT made the day ofof	(here	inafter "the Procuring
Ent	tity"), e Cor	of the one part, and	of	(hereinafter
		*		
WI exe Wo	HERE ecuted orksan	AS the Procuring Entity desires that the Wo by the Contractor, and has accepted a Tend d the remedying of any defects there in,	orksknownasler by the Contractor for the execution a	should be nd completion of these
Γh	e Proc	curing Entity and the Contractor agree as followers	lows:	
1.		his Agreement words and expressions shall l Contract documents referred to.	have the same meanings as are respective	ely assigned to them in
2.		following documents shall be deemed to for element shall prevail over all other Contract		f this Agreement. This
	a)	theNotification of Award		
	b)	the Form of Tender		
	c)	the addenda Nos(if any)		
	d)	the Special Conditions of Contract		
	e)	the General Conditions of Contract;		
	f)	the Specifications		
	g)	the Drawings; and		
	h)	the completed Schedules and any other do	ocuments forming part of the contract.	
3.	Agr	consideration of the payments to be made been the Contractor here by covenants weeks therein in conformity in all respects with	with the Procuring Entity to execute the	
4.	of t	Procuring Entity here by covenants to pay the Works and the remedying of defects the able under the provisions of the Contract at the second s	ere in, the Contract Price or such other	r sum as may become
		VITNESS where of the parties here to have over of Kenya on the day, month and year spec		accordance with the
	Sign	neda nd sealed by	(for the	Procuring Entity)
	Sign	ned and sealed by	(for	the Contractor).

FORM NO. 5 - PERFORMANCE SECURITY

[O]	ption 1 - Unconditional Demand Bank Guarantee]
$[G_i]$	uarantor letterhead]
Be	neficiary: [insert name and Address of Procuring Entity]
Da	te:[Insert date of issue]
Gu	arantor: [Insert name and address of place of issue, unless indicated in the letterhead]
1.	We have been informedthat
2.	Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.
3.	Atthe request of the Contractor, we as Guarantor, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of(in words),¹ such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary's complying demand supported by the Beneficiary's statement, whether in the demand it self or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for your demand or the sum specified therein.
4.	This guarantee shall expire, no later than the
5.	The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], inresponse to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."
	[Name of Authorized Official, signature(s) and seals/stamps]
	Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

¹The Guarantor shall insert an amount representing the percentage of the Accepted Contract Amount specified in the Letter of Acceptance, less provisional sums, if any, and denominated either in the currency of the Contract or a freely convertible currency acceptable to the Beneficiary.

²Insert the date twenty-eight days after the expected completion date as described in GC Clause 11.9. The Procuring Entity should note that in the event of an extension of this date for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

FORM No. 6- PERFORMANCE SECURITY

[Option 2– Performance Bond]

[Note: Procuring Entities a readvised to use Performance Security – Unconditiona lDemand Bank Guarantee in stead of Performance Bond due to difficulties involved in calling Bond holder to action]

[G	uarantor l	etterhead or SWIFT identifier code]
Be	neficiary:	[insertnameandAddressofProcuringEntity]
Da	ite:	[Insert date of issue]
ΡF	ERFORM	ANCE BONDNo.:
Gı	iarantor:	[Insert name and address of place of issue, unless indicated in the letterhead]
1.	"the Sure amount of types and	Bond as Principal (hereinafter called "the Contractor") as Surety (hereinafter called ety"), are held and firmly bound unto] as Obligee (hereinafter called "the Procuring Entity") in the of for the payment of which sum well and truly to be made in the d proportions of currencies in which the Contract Price is payable, the Contractor and the Surety bind res, their heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these
2.	ofspecifica	AS the Contractor has entered into a written Agreement with the Procuring Entity dated theday
3.	faithfully void; oth Procuring	HEREFORE, the Condition of this Obligation is such that, if the Contractor shall promptly and perform the said Contract (including any amendments thereto), then this obligation shall be null and therewise, it shall remain in full force and effect. Whenever the Contractor shall be, and declared by the generated Entity to be, in default under the Contract, the Procuring Entity having performed the Procuring obligations there under, the Surety may promptly remedy the default, or shall promptly:
	a) Com	replete the Contract in accordance with its terms and conditions; or
	the (and Proc succ suffi inclu the f	ain a tender or tenders from qualified tenderers for submission to the Procuring Entity for completing Contract in accordance with its terms and conditions, and upon determination by the Procuring Entity the Surety of the lowest responsive Tenderers, arrange for a Contract between such Tenderer, and curing Entity and make a vailable as work progresses (even though there should be a default or a ression of defaults under the Contract or Contracts of completion arranged under this paragraph) is cient funds to pay the cost of completion less the Balance of the Contract Price; but not exceeding, adding other costs and damages for which the Surety may be liable hereunder, the amount set forth in first paragraph hereof. The term "Balance of the Contract Price," as used in this paragraph, shall mean total amount payable by Procuring Entity to Contractor under the Contract, less the amount properly by Procuring Entity to Contractor; or
		the Procuring Entity the amount required by Procuring Entity to complete the Contract in accordance its terms and conditions upto a total not exceeding the amount of this Bond.
4.	The Sure	ty shall not be liable for a greater sum than the specified penalty of this Bond.
5.	Taking-C corporati	under this Bond must be instituted before the expiration of one year from the date of the issuing of the Over Certificate. No right of action shall accrue on this Bond to or for the use of any person or on other than the Procuring Entity named here in or the heirs, executors, administrators, successors, and of the Procuring Entity.
6.		ony whereof, the Contractor has here unto set his hand and affixed his seal, and the Surety has caused sents to be sealed with his corporate seal duly at tested by the signature of his legal representative, this

SIGNED ON	on behalf of	
Ву	in the capacity of	
Inthepresenceof		
SIGNED ON	on behalf of	
By	in the capacity of	
Inthepresence of		

FORM NO. 7 - ADVANCE PAYMENT SECURITY

_	emand Bank Guarantee] uarantor letterhead]				
_	neficiary:[Insert name and Address of ProcuringEntity]				
	te:[Insert date of issue]				
ADVANCE PAYMENT GUARANTEE No.: [Insert guarantee reference number]					
	arantor: [Insert name and address of place of issue, unless indicated in the letterhead]				
1.	We have been informed that (hereinafter called "the Contractor") has entered into Contract No dated with the Beneficiary, for the execution of (hereinafter called" the Contract").				
2.	Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum(in words) is to be made against an advance payment guarantee.				
3.	At the request of the Contractor, we as Guarantor, here by irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of				
	a) Has used the advance payment for purposes other than the costs of mobilization in respect of the Works; orb) Has failed to repay the advance payment in accordance with the Contract conditions, specifying the amount which the Applicant has failed to repay.				
4.	A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the advance payment referred to above has been credited to the Contractor on its account numberat				
5.	The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as specified in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that ninety (90) percent of the Accepted Contract Amount, less provisional sums, has been certified for payment, oronthe				
6.	The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.				
	[Name of Authorized Official, signature(s) and seals/stamps]				
	Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.				

¹The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency of the advance paymen tas specified in the Contract.

²Insert the expected expiration date of the Time for Completion. The Procuring Entity should note that in the event of an extension of the time for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

FORM NO. 8 – RETENTION MONEY SECURITY

[D	emand Bank Guarantee]
[G	uarantor letterhead]
Be	neficiary:[Insert name and Address of Procuring Entity]
Da	te:[Insert date of issue]
Ad	lvance payment guarantee no. [Insert guarantee reference number]
Gı	narantor: [Insert name and address of place of issue, unless indicated in the letterhead]
1.	We have been informed that[insert_name of Contractor, which in the case of a joint venture shall be the name of the joint venture] (hereinafter called "the Contractor") has entered into Contract No[insert_reference number of the contract] dated with the Beneficiary, for the execution of[insert_name of contract and brief description of Works] (hereinafter called "the Contract").
2.	Furthermore, we understand that, according to the conditions of the Contract, the Beneficiary retains moneys upto the limit set forth in the Contract ("the Retention Money"), and that when the Taking-Over Certificate has been issued under the Contract and the first half of the Retention Money has been certified for payment, and payment of [insert the second half of the Retention Money] is to be made against a Retention Money guarantee.
3.	At the request of the Contractor, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of [insert amount in figures] ([insert amount in words])^{l} upon receipt by us of the Beneficiary's complying demands upported by the Beneficiary's statement, whether in the demand itself or in a separate signed document accompanying or identifyingthedemand, stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or showgrounds for your demand or the sum specified there in.
4.	A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary's bank stating that the second half of the Retention Money as referred to above has been credited to the Contractor on its account numberat[insert name and address of Applicant's bank].
5.	This guarantee shall expire no later than the
6.	The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [six months] [one year], in response to the Beneficiary's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.
	[Name of Authorized Official, signature(s) and seals/stamps]
	<i>Note:</i> All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.

¹The Guarantor shall insert an amount representing the amount of the second half of the Retention Money.

Insert a date that is twenty-eight days after the expiry of retention period after the actua lcompletion date of the contract. The Procuring Entity should note that in the event of an extension of this date for completion of the Contract, the Procuring Entity would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee.

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FORM NO. 9 BENEFICIAL OWNERSHIP DISCLOSURE FORM

(Amended and issued pursuant to PPRA CIRCULAR No. 02/2022)

INSTRUCTIONS TO TENDERERS: DELETE THIS BOX ONCE YOU HAVE COMPLETED THE FORM

This Beneficial Ownership Disclosure Form ("Form") is to be completed by the successful tenderer pursuant to Regulation 13 (2A) and 13 (6) of the Companies (Beneficial Ownership Information) Regulations, 2020. In case of joint venture, the tenderer must submit a separate Form for each member. The beneficial ownership information to be submitted in this Form shall be current as of the date of its submission.

For the purposes of this Form, a Beneficial Owner of a Tenderer is any natural person who ultimately owns or controls the legal person (tenderer) or arrangements or a natural person on whose behalf a transaction is conducted, and includes those persons who exercise ultimate effective control over a legal person (Tenderer) or arrangement.

Tender Reference No.:	[insert identification no]
Name of the Tender Title/Description:	[insert name of the assignment] to:
[insert complete	name of Procuring Entity]
In response to the requirement in your notification of avadditional information on beneficial ownership:	vard dated[insert date of notification of award] to furnish[select one option as applicable and delete the

I) We here by provide the following beneficial ownership information.

Details of Beneficial ownership

	Details of all Beneficial Owners	% of shares a person holds in the company Directly or indirectly	% of voting rights a person holds in the company	Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer (Yes / No)	Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)
	Full Name	Directly	Directly	1. Having the right to appoint a majority of	Exercises significant influence or control
1.	National identity card number or Passport number	of shares	% of voting rights	the board of the directors or an equivalent governing	over the Company body of the Company (tenderer)
	Personal Identification Number (where applicable)	Indirectly % of shares	Indirectly % of voting rights	body of the Tenderer: YesNo 2. Is this right held directly or indirectly?:	YesNo 2. Is this
	Nationality				influence or control exercised directly
	Date of birth [dd/mm/yyyy]			Direct	or indirectly? Direct
	Postal address			Indirect	
	Residential address				Indirect
	Telephone number				
	Email address				
	Occupation or				

	Details of all Beneficia	al Owners	% of shares a person holds in the company Directly or indirectly	% of voting rights a person holds in the company	Whether a person directly or indirectly holds a right to appoint or remove a member of the board of directors of the company or an equivalent governing body of the Tenderer (Yes / No)	Whether a person directly or indirectly exercises significant influence or control over the Company (tenderer) (Yes / No)				
	profession									
2.	Full Name		Directly	Directly% of voting	Having the right to appoint a	Exercises significant influence				
	National identity card number or Passport number		of shares Indirectly of shares	of shares right Indirectly % or right	of shares rights majority of the directo equivalent great body of the TyesNo Indirectly % of voting rights 2. Is this rights	majority of the board of the directors or an equivalent governing	or control over the Company body of the Company			
	Personal Identification Number (where applicable)					body of the Tenderer: YesNo 2. Is this right held directly or indirectly?:	(tenderer) YesNo 2. Is this influence or control			
	Nationality(ies)					exercised directly				
	Date of birth [dd/mm/yyyy]						Direct	or indirectly?		
	Postal address				T 1' 4					
	Residential address					ı			Indirect	Indirect
	Telephone number									
	Email address									
	Occupation or profession									
3.										
,										
e.t .c										

- II) Am fully aware that beneficial ownership information above shall be reported to the Public Procurement Regulatory Authority together with other details in relation to contract awards and shall be maintained in the Government Portal, published and made publicly available pursuant to Regulation 13(5) of the Companies (Beneficial Ownership Information) Regulations, 2020.(Notwithstanding this paragraph Personally Identifiable Information in line with the Data Protection Act shall not be published or made public). Note that Personally Identifiable Information (PII) is defined as any information that can be used to distinguish one person from another and can be used to deanonymize previously anonymous data. This information includes National identity card number or Passport number, Personal Identification Number, Date of birth, Residential address, email address and Telephone number.
- III) In determining who meets the threshold of who a beneficial owner is, the Tenderer must consider a natural person who in relation to the company:
 - (a) holds at least ten percent of the issued shares in the company either directly or indirectly;
 - (b) exercises at least ten percent of the voting rights in the company either directly or indirectly;

- (c) holds a right, directly or indirectly, to appoint or remove a director of the company; or
- (d) exercises significant influence or control, directly or indirectly, over the company.
- IV) What is stated to herein above is true to the best of my knowledge, information and belief.

Name of the Tenderer:*[insert complete name of the Tenderer]
Name of the person duly authorized to sign the Tender on behalf of the Tenderer: ** [insert complete name of
person duly authorized to sign the Tender]
Designation of the person signing the Tender: [insert complete title of the person signing the
Tender]
Signature of the person named above: [insert signature of person whose name and capacity are
shown above]
Date this

Bidder Official Stamp

REPUBLIC OF KENYA



MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

BILL OF QUANTITIES

FOR:

PROPOSED CONSTRUCTION OF SOCIAL HOUSING DEVELOPMENT AND ASSOCIATED SOCIAL INFRASTRUCTURE IN KASARANI CONSTITUENCY, NAIROBI COUNTY

LOT 4

Ministry of Lands, Public Works, Housing and Urban Development
State Department for Housing and Urban Development,
P.O Box 30119-00100 Nairobi,

Kenya Tel: +254-020-2713833

GENERAL SPECIFICATIONS	

SPECIFICATIONS
SPECIFICATIONS
Reference is made to the General Specifications for Building Works (1976) by the Ministry of Works, Housing and Physical Planning.
A copy is available for perusing at the request of the procuring entity.
Contractors are required to adhere to the latest industry standards as outlined in the most recent version of KS (Kenyan Standards) / BS (British Standards) EN International standards. Failure to comply may result in project delays or financial penalties. It is the responsibility of the Contractor to stay informed about and apply the current industry standards throughtout the construction process. Any disputes arising from non-compliance with updated standards will be subject to resolution through dispute resolution mechanism outlined in the contract.

PRELIMINARIES	
	_

ITEM DESCRIPTION **AMOUNT** BILL NO. 1 PARTICULAR PRELIMINARIES Α PARTIES The **Employer** is: Principal Secretary, Ministry of Lands, Public works, Housing and Urban Development, State Department of Housing and Urban Development P.O Box 30119 -00100 NAIROBI, KENYA The Engineer is: The term "PM" wherever used in these Bills of Quantities shall be deemed to imply the Engineer as defined in Condition 1 of the Conditions of Contract or such person or persons as may be duly authorised to represent him on behalf of the Government . The Architect is: Ministry of Lands, Public works, Housing and Urban Development, State Department of Housing and Urban Development P.O Box 30119 -00100 NAIROBI, KENYA The Quantity Surveyors is: Ministry of Lands, Public works, Housing and Urban Development, State Department of Housing and Urban Development P.O Box 30119 -00100 NAIROBI, KENYA The Structural/ Civil Engineers is: Ministry of Lands, Public works, Housing and Urban Development, State Department of Housing and Urban Development P.O Box 30119 -00100 NAIROBI, KENYA The Electrical / Mechanical Engineers is: Ministry of Lands, Public works, Housing and Urban Development, State Department of Housing and Urban Development P.O Box 30119 -00100 NAIROBI, KENYA

	DEGODIDATION	41401 D.IT
ITEM	DESCRIPTION	AMOUNT
Α	LOCATION OF SITE	
	The site of the proposed works is located in Kasarani, Nairobi County	
	The Contractor shall be deemed to have visited the site and satisfied himself as to:-	
	a) The nature, position, topography and access of the siteb) The amount of the rubbish or debris to be cleared away before commencement.	
	 c) The nature, current usage, proximity and size of adjoining property and buildings d) The availability of land for the erection and positioning of all temporary structures, plant and materials necessary for the execution of the works. 	
	The Contractor shall obtain approval from the relevant Local Authority in adherence to site access and erection of temporary structures and must ensure all matters relating to the requirements of these authorities.	
	No claim will be allowed for travelling or other expenses which may be incurred by the Contractor in visiting the site or preparing the tender for the works.	
В	EXISTING SITE CONDITIONS	
	The Contractor is advised that the site is in a predominantly residential area and all measures should be taken to avoid nuisance to neighbours.	
	All occupation health and safety requirements must be met as required by law.	
	This includes prevention and or minimizing noise, dust, fumes e.t.c.	
	Notices should be given prior to disruption of services	
С	SCOPE OF CONTRACT	
	The Works under this contract comprises of the structures as detailed in the project data sheet	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
I I E IVI	DESCRIPTION	AMOUNT
Α	DESCRIPTION OF THE WORKS The construction comprises reinforced concrete foundations, masonry walling, reinforced	
	concrete beams, column, staircases and suspended solid slabs, roof construction. The exterior facade consists of steel casement windows, steel and timber doors, render and	
	paint finish, clay and stone facing finish to walls	
	The interior works includes timber doors and finishes which are generally plaster and paint to walls, ceramic and non slip ceramic tiles to floors and walls.	
	External works generally comprise of foul water drainage, storm water drainage, pathway, dryline area, septic tank, underground water tank.	
	All mechanical / electrical services and other specialist works associated with the above works shall be executed by domestic/nominated sub contractors approved by the Engineer	
	CONTRACT PARTICULARS	
В	FORM OF CONTRACT	
	The Contractor will be required to enter into a contract with the Employer under the Terms and Conditions of Contract as "Standard Tender Document for Procurement of Works (Building and Associated Civil Engineering Works) Issued by the Public Procument Regulatory Authority in February 2021 (updated 2022) and in association with the latest applicable version of the Public Procurement and Asset Disposal Act.	
	The Contractor's attention is called to the appendix of the conditions of Contract and additions and amendments thereto, which shall be read as incorporated herein and he shall allow any sums which he considers necessary for the observance of such conditions, together with sub clauses used in application.	
	The prioirity of such documents shall be as stated in the conditions of agreement.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	LIABILITY AGAINST INJURY TO PERSONS AND PROPERTY	
	Insurance against injury to persons and property	
	NOTES In addition to the conditions of the contract and the requirement contained herein the contractor's all risk policy shall cover the full value of the following and allow for all costs thereof:-	
	i) The works and temporary works erected in performance of this contract. ii) The materials on site, plant and tools iii) The cost and expense of removing debris of the property insured, destroyed or damaged by any peril insured. iv) Professional fees (to be allowed at 15% of the contract sum) v) Employer's liability (workman's compensation) ii) Third party (Public liability for an indemnity of not less than shs 15,000,000 for any accident or series of accidents arising from the same event (unlimited in aggregate)	
	The contractor shall ensure that all sub-contractors effect and maintain such insurances as are necessary to cover their liabilities in respect of injury to persons and property and workman,s compensation. Should the contractor already hold annual insurances covering the whole of his activities,	
	and the indemnity required under the existing policy/ies then further insurances shall be effected and maintained to cover such excess, the policies of insurances being suitably endorsed to cover this project	
В	Insurance of the works (contractors liability)	
	The Contractor shall insure as required in the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the Engineer either by production of an Insurance Policy or and Insurance Certificate that the provision of the foregoing Insurance Clauses have been complied with in all respects.	
	Thereafter the Engineer shall from time to time ascertain that premiums are duly paid up by the Contractor who shall if called upon to do so, produce the receipted premium renewals for the Engineer's inspection.	
	Carried to collection	

		[<u></u>
ITEM	DESCRIPTION	AMOUNT
	PERFORMANCE BOND	
Α	Performance bond for the works	
	The Contractor shall submit on the Form of Tender an approved bank or approved (By PPRA) Insurance Company and who will be willing to be bound to the Employer in an amount(as defined in the bidding documents) for the due performances of the Contract up to the date of completion as certified by the Engineer and who will when and if called upon, sign a Bond to that effect on the relevant standard form as seen in the CONTRACT STANDARD FORMS (without the addition of any limitations)	
	And should the surety fail to be approved, the Contractor shall furnish within seven days another Surety to the approval of the Employer.	
	Note that no payments on account of works executed will be made to the Contractor until he has submitted the Performance bond, duly stamped signed and sealed by an approved bank or insurance company.	
В	POSSESSION AND COMMENCEMENT	
	The Contractor shall take possession of the site on the date indicated in the acceptance letter. The date of commencement of the works shall also be communicated to the Contractor and the contract period shall run from the commencement date.	
	The Contractor is expected to utilize the period between possession and commencement to mobilise his resources to ensure smooth running of the works from the commencement date.	
	PROJECT SUPERVISION	
С	The said works shall be executed under the direction and to the entire satisfaction of the Engineer and Clerk of works who shall have the Engineer's specifically delegated authority and shall at all times have access to the works, to the yards and workshops of the contractor or other places where goods are being prepared for the building.	
	LABOUR CAMPS	
D	The contractor will generally be permitted to house labour on site subject to approval by Architect	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	<u>DOWNTAKINGS</u>	
Α	All materials arising from demolitions and downtakings are deemed to be the property of the employer. No claim will be entertained on account of employer excising this right to retain the materials	
	All downtakings shall be carefully removed, taken down, dismantled and stored on site until instructed by the Engineer to remove from the site. Such materials shall only be incorporated in the new works if required by the Engineer in which case appropriate adjustments will be made in the final account for the cost of labour, screws etc for fixing such downtakings in the new works.	
	<u>DAMAGES</u>	
В	Damages for delay in completion shall be levied at the rate of Kshs(Refer to the special Conditions of Contract)	
	BIOMETRIC INSTALLATIONS	
С	Supply, Deliver to site, Install, test and commission a biometric and RFID card reader that supports RS485 and TCP/IP. supports both 125kHz & 13.56MHz, finger, card and pin authentication complete with Wiegand Interface, 12-digit Keypad,Power Supply unit c/w batteries, RFID Proximity ID Cards, Workstation and all necessary cabling and infurstructure required for a complete installation to Engineers approval. Allow for full graphic customization and programming of the installed system into the existing access control system	
	CCTV INSTALLATION	
	Deliver to site, Install,test and commission the following as described below:	
D	Supply, Deliver to site, Install, test and commission a CCTV installation during the construction period for monitoring and socio-economic data collection as per engineer's specifications. System should include but not limited to remote monitoring capabilities and atleast 30 days cloud storage, IP66, IK10 Bullet Network Camera 4MP resolution, H.265, H.264, MJPEG codec supported, Multiple streaming, Motion detection, Tampering, Defocus detection, micro SD/SDHC/SDXC memory slot (Max. 128GB), PoE / 12V DC, IR viewable length 20m (QNO-7010R), 25m (QNO-7020R) 30m (QNO-7030R), Warranty 3 years, 8 Channel Network Video Recorder, Maximum 12-megapixel camera supported complete with storage and all neccessary active and passive devices, cabling, back up power and accessories required for a complete installation.	
	OTHER PRELIMINARIES	
E	Allow for any other item necessary to execute the works and state them below;	
		-
	Carried to collection	-

ITEM DESCRIPTION	AMOUNT
BILL NO. 1	
PARTICULAR PRELIMINARIES	
COLLECTION	
Carried from page 1/1	
Carried from page 1/2	
Carried from page 1/3	
Carried from page 1/4	
Carried from page 1/5	
Carried from page 1/6	
Particular Preliminaries Carried to Summary of Bill No. 1	

ITEM	DESCRIPTION	AMOUNT
I I ⊑IVI	DESCRIPTION	AMOUNT
	BILL NO. 2	
	GENERAL PRELIMINARIES	
	PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES	
Α	Whenever in the Contractor's priced Bills of Quantities no price appears against an item of Preliminaries or Preambles or work items, the value of such item shall be deemed to be included in his prices for other items in the Bills of Quantities.	
	SUFFICIENCY OF TENDER	
В	The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices stated in the priced Bills of Quantities. Rates and prices quoted shall cover all his obligations under the contract and all the matters and maintenance of the works	
	RECORDS	
С	The Contractor shall ensure proper records are kept and maintained for : Daily Reports on Personnel and Machinery; tracked programme; weather charts/reports; site instruction book and query book,a digital camera shall be provided for taking progress photos	
	The contractor shall be required to provide equipment for taking ground and aerial photos or videos in relation to the progress of works when called upon to do so.	
D	DEFINITIONS AND ABBREVIATIONS Throughout these Bills, units of measurements and terms are abbreviated and shall be interpreted as follows:	
	mm shall mean millimeter	
	Im shall mean linear meter	
	sm shall mean square meter	
	m ² shall mean square meter	
	cm shall mean cubic meter	
	kg shall mean kilogramme	
	N shall mean Newton	
	KN shall mean KiloNewton	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	in/" shall mean inches	
	L f shall mean linear foot	
	s f shall mean square foot	
	c f shall mean cubic foot	
	L b shall mean pound avoirdupois	
	No. shall mean number	
	B.S.M shall mean both sides measured	
	K.S. shall mean current Kenya Standard specification published by the Kenya Bureau of Standard, P.O. Box 54974. NAIROBI, Kenya.	
	'As described' shall mean as described in these Bills of Quantities.	
	'As before described' shall mean the whole of the previous description except as qualified in the current one.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	SITE LEVELS	
Α	Before commencing work the Contractor must arrange for and agree with the Architect, Engineer and Quantity Surveyor the existing site levels and similarly establish and agree on a bench mark.	
	The Contractor shall provide a surveyor to ensure all levels are achieved as per the drawings and Architects/Structural Engineer's instructions	
	SETTING OUT	
В	The contractor shall set out works in accordance with the dimensions and levels shown on the drawings and shall be responsible for the correctness of all dimensions and levels set out by him and he will be required to amend all errors arising from inaccurate setting out at his own cost and expenses. In the event of any error or discrepancy in the dimensions or levels marked on the drawings being discovered, such errors or discrepancies must be reported by the Contractor to the Engineer for his immediate attention.	
	No work shall be commenced by the Contractor until he has received written instructions from the Engineer to adjust such discrepancies which may be proved, upon receipt of such instructions and no claim for extra expenses or relief from the provisions of Clause 5 of the Conditions of the Contract , any discrepancy or error in the dimensions or levels shown on the drawings may be made thereafter.	
	The Contractor shall give the Engineer reasonable notice of the intention to set out or take levels for any part of the Works so that arrangements may be made for checking the work. The accuracy of setting out and leveling shall be within the tolerances specified in the Specifications or on the Drawings. The checking of setting out or leveling by the Engineer shall not relieve the Contractor of his duties or responsibilities under the Contract.	
	<u>MEASUREMENTS</u>	
С	Measurements are based on Standard Methods of Measurement of Building Works and Associated Civil Works For Eastern Africa (SMM) Second Edition 2008.	
	In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence.	
D	GENERAL SPECIFICATIONS	
	All works to be carried out in accordance with the Ministry of Roads, public Works and Housing General Specifications for Building Works issued in 1976 or as qualified and amended.	
	Carried to collection	
ill No. 2		

ITEM	DESCRIPTION	AMOUNT
A	SAMPLES The contractor shall furnish at the earliest possible opportunity before work commences and at his own cost any samples of materials or workmanship that may be called for by the Engineer for his approval or rejection until such samples are approved to be the acceptable standard for the work to which they apply.	
В	The samples shall be maintained and displayed on a designated section within the site for the duration of the project where practical and possible. PROTECTION OF EXISTING PROPERTY The contractor shall take every precaution to avoid damage to all existing property including boundary wall, carpark, roads, cables, drains, staircases, lift etc including other	
	services and he will be held responsible for all damages hereto arising from the execution of his contract and he shall make good all such damages when directed at his own expense. Any damage or disturbances caused to any element shall be reported immediately to the Engineer and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense.	
С	PROTECTION / RELOCATION OF EXISTING SERVICES	
	Prior to commencement of any work the Contractor is to ascertain from the relevant Authorities the exact position, depth and level of all existing electric cables, water pipes and all other services in the area and he shall make whatever provisions may be required by the authorities concerned for the support and protection and/or relocation of such services as will be necessitated.	
	The contractor is also expected to generate a utility management plan to the approval of the Engineer.	
	Any damage or disturbances caused to any service shall be reported immediately to the Engineer and the relevant Authority and shall be made good to their satisfaction at the Contractor's expense.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	MATERIALS, TOOLS, PLANT AND SCAFFOLDINGS	
	All materials and workmanship used in the execution of the works shall be of the best quality and description. Any materials for the works condemned by the Engineer shall immediately be removed from the site at the Contractor's expense.	
	The Contractor shall be responsible for the provision of all materials, scaffolding, tools, plant, transport and workmen required for the works except in so far as may be stated otherwise herein and he shall allow for the provision of the foregoing except for such items specifically and only required for the use of Nominated Sub-contractors as described herein.	
	No timber used for scaffolding, formwork or similar purpose shall be used afterwards in the permanent works.	
	All such plant, tools and scaffolding shall comply with all regulations whether general or local in force including Environmental, Social, Health and Safety (ESHS) policies throughout the period of the contract and shall be required as may be necessary to comply with any amendments in or additions to such regulations	
	The Contractor shall keep on the site and maintain in good condition one dumpy or quickset level, metric leveling staff and one 30 metre steel tape for the use of the Architect, Surveyor and Engineer.	
	The contractor may be required to provide an appropriate tower crane as required during the project life. Where a crane is provided, it should meet all regulatory and technical standards, all licences in connection with erection, usage shall be at the Contractors expense.	
	The contractor may be required to provide an appropriate tower crane as required during the project life. Where a crane is provided, it should meet all regulatory and technical standards, all licences in connection with erection, usage shall be at the contractors expense.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	LOCAL REGULATIONS AND BY-LAWS	
	The contractor is to comply with all local regulations and by-laws of the Local Authority including serving notices and paying of fees where applicable. These include, but not limited to: National Environmental Management Authority (NEMA), National Contruction Authority (NCA), Water Resources Authority (WRA)	
	The Contractor will be held responsible for serving on the Chief Inspector of Factories a written notice not later than seven days after the beginning of the building operations included in this contract stating the particulars required.	
	TRANSPORT TO AND FROM THE SITE	
В	The Contractor shall include in his prices for the transport of materials, workmen etc to and from the site of the proposed works at such hours and by such routes as are permitted by the Authorities.	
	All unit rates for local or imported goods are to include freight, insurance, handling and delivery costs to the project site together with import duties, sale tax, port charges etc and all other charges of whatever nature.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	FAIR WAGES	
	The Contractor shall pay rates of wages and observe hours and conditions of labour not less favourable than the minimum conditions of employment applicable in the area in which the work is carried out. The relevant notice must be posted up and kept posted upon the site where it can be conveniently read by the employees concerned in languages they can understand.	
	The Contractor is to comply with the regulations of Wages and Conditions of Employment Act, Building and Construction Industry Wages Council and is to be responsible for compliance of the sub-contractors employed in the execution of the contract. If required he is to notify the Engineer of the names and addresses of all such Sub-contractors. Any Contractor or Sub-contractors not complying will not be permitted to tender for other work for such a period as the Engineer may determine	
	Should a claim be made to the Engineer alleging the Contractor's default in payment of fair wages to any workman employed on the contract and if proof thereof satisfactory to the Engineer, may failing payment by the Contractor, pay the claim out of any monies due or which may become due to the contractor under this contract.	
	The Contractor is to furnish to the Engineer, if called upon to do so, such particulars of the rates of wages, hours and conditions of labour referred to above as the Engineer may direct	
В	SECURITY OF WORKS	
	The Contractor shall be entirely responsible and shall pay security of all works, stores, materials, plant, personnel etc both his own and sub-contractors and shall also provide all necessary watching, lighting, and other precautions as necessary to ensure the security, the safety and protection of the public. He is to ensure that there is no informal business settlement near the establishment.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	OCCUPATIONAL HEALTH AND SAFETY MEASURES	
	The Engineer expects the Contractor to adhere to strict safety measures. In this regard the Contractor should ensure that all his workers, the Consultants and his sub-Contractors workmen are wearing Personal Protective Equipment (PPE) before commencement of any work where applicable including overalls with the company name clearly printed on the back each with clearly marked Identification Numbers stitched or imprinted on.	
	The Contractor shall allow for providing all watching, lighting, green netting, barriers, signs, covering open trenches and protection of the works, including Sub-Contract works, as may be necessary for the safety of the works and for the protection of the public and his own and Sub-Contractors' employees.	
	He shall also ensure provision of a certified and qualified safety, health and environmental officer, access to ambulance services at all worksites and arrangement to access a local hospital/dispensary with qualified medical staff.	
	The contractor shall take cognisance and shall fully adhrere to the regulations of the Occupational Safety and Health Act of 2007 including all the associated revisions	
	The Engineer shall expect full compliance to this regulation and no excuses will be entertained for non-compliance which may lead to suspension of works until the issue is addressed satisfactorily.	
В	PUBLIC, PRIVATE ROADS AND PAVEMENTS ETC	
	The contractor will be required to make good at his own expense any damages he may cause to the present approach and surrounding road surfaces during the period of the works	
С	POLICE REGULATIONS	
	The contractor is to allow for complying with all Government Acts, orders or regulations in connection with employment of labour and other matters related to the execution of the works.	
	The Contractor must acquit himself duly with current acts and regulations, including police regulations regarding the movement, housing, security and control of labour, labour camps, passes for transport, etc	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	AREA TO BE OCCUPIED BY CONTRACTOR	
	The area of the site which may be occupied by the Contractor for use as storage and for the purpose of erecting workshops etc shall be defined on the site by the Engineer	
В	PROGRESS SCHEDULE	
	Immediately after signing the contract the Contractor is to prepare a Time Progress Chart showing the time and order in which he proposes to carry out the works within the total construction time stated in the contract. The chart will show in detail the construction time and order in which each section of the work is to be carried out and be sub-divided into trades and tasks. If the contractor proposes sectional completion of the project he must plan this in detail including access roads, and services and this shall be reflected on the chart	
	Upon the letting of the Sub-Contractors work the Contractor is to incorporate times and details of each separate Sub-Contractor work which information is to be agreed by the Sub-Contractor and the chart will be so designed to accommodate this infantine.	
	At the end of each week the Contractor is to mark on the chart in a different colour the actual time taken to complete the respective stages and sections of the work. The contractor shall obtain the Engineer's approval on the chart and then shall supply copies to the Engineer and Quantity Surveyor	
	If at any time it should appear to the Engineer that the actual progress of the works does not conform to the approved programme progress schedule the Contractor shall produce at the request of the Engineer a revised programme showing the modifications and accelerations to the approved programme necessary to ensure completion of the works within the agreed contract period.	
	The submission of and approval by the Engineer of such revisions and accelerations shall not entitle the Contractor to any extra payment or extension of time and shall not relieve the Contractor of any duties or obligations or responsibilities under the contract	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	<u>OVERTIME</u>	
	The Contractor shall be responsible for any extra costs for overtime working he considers will be necessary in order to complete the works within the contract period or time for completion apart from overtime working which may be authorised by the Engineer	
	If overtime is worked out in accordance with a written instruction issued by the Engineer the contractor will be reimbursed in respect of such overtime to the unproductive time payable over and above the basic hourly rates as laid down by the Regulation of wages and Conditions of employment Act, Building and Construction Industry Wages Council and excluding any bonuses, profits and overheads.	
В	<u>WATER</u>	
	The contractor shall provide at his own risk and cost all water for use in connection with the works including the work of sub-contractors make arrangements with the local authority for the installation of a separate meter where applicable and possible for all water used by him throughout the contract and pay all costs and fees in connection therewith. He shall also provide temporary storage tanks and tubing etc as he may consider necessary and clear away at completion.	
	The contractor is to provide clean drinking water at the construction site for his workers at all times.	
	All water shall be fresh, clean and pure, free from earthly vegetable or organic matter, acid or alkaline substance in solution or suspension.	
С	TELEPHONE	
	The contractor shall provide in the office, from the commencement to the completion of the works, a wireless or mobile phone and shall pay all charges or airtime necessary for its use	
D	LIGHTING AND POWER	
	The contractor shall provide at his own risk and cost all temporary artificial lighting and power for use on the works including all sub-contractors and specialists requirements and including all temporary connections, wiring, fittings etc and clearing away on completion. The Contractor shall pay all fees and obtain all permits in connection therewith.	
	Carried to Collection	

ITEM	DESCRIPTION	AMOUNT
Α	<u>TESTING</u>	
	Allow for all expenses in connection with the testing of materials as specified hereunder including the supply and preparation of materials to be tested, the cost of materials and their packing and conveyance to the nearest approved Testing Laboratory, laboratory charges, etc. The following items of tests will be measured according to the number of tests actually called for by the Engineer but unsuccessful tests will not be included in the remeasurement.	
	Allow for executing the following tests as detailed in the Appendices to these Bills of Quantities (PROVISIONAL)) Water Test(litres) Sand Test(m3) Aggregate Test(m3)	
	Reinforcement test (1m of mild steel rod or high tensile steel bar of various sizes)	
	Concrete Test (each test comprising cubes as described hereinafter)	
	Testing of concrete or stone blocks of various strengths in accordance with Kenya Standard Specification (one test comprising blocks)	
В	PRICING RATES	
	The tenderer shall include for all costs in executing the whole of the works, including transport, replacing damaged items, fixing, all to comply with the said Conditions of Contract.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	TEMPORARY STRUCTURES	
	a) The Contractor shall allow for providing and clearing away on completion of the works such temporary hoarding, rubbish chutes, gates, planked walkways, guard rails etc. as may be necessary for the protection of the workers, the general public, and for the proper execution of the works.	
	b) As such, temporary structures shall be constructed with the approval of the Engineer and to his full satisfaction and in such a manner as to cause minimum intrisiveness and disturbance to occupants of adjacent developments and users of the adjacent roads.	
	c) All such temporary structures shall comply in all aspects with the national laws, rules, and regulations currently in force and applicable to such structures.	
	d) All temporary structures shall be erected in a manner so that the unloading of materials causes minimum obstruction to the use of adjacent roads and other facilities	
	e) All temporary structures shall be kept properly lighted throughout the periods of darkness and any corners or projections shall be painted white.	
	g) Temporary structures shall not be used or permitted to be used for advertisement purposes except with the written consent of the Engineer	
	h) All temporary structures shall be maintained at all times in good order and good condition to the satisfaction of the Engineer.	
	i) All temporary structures shall be removed when so required by the Engineer or at the end of the period for which it is required.	
	j) The Contractor shall indemnify and shall keep the employer idemnified against any expenses, loss, claim or suits arising out of or in connection with the temporary structures.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	SITE OFFICE	
Α	The contractor shall supply, maintain, service, clean and light a fully furnished, suitable office having an approximate floor area of not less than 200sqm. The office shall have a sample room suitable dimensions with clean running water and electricity connected to the approval of the Engineer.	
	The Contractor shall provide offices, messrooms and all other buildings required by the Contractor for his own use and the use of by Clerk of Works and Nominated SubContractors as required by the items or attendance	
	The site office shall be equipped with a table and chairs of sufficient size and number for site meetings and plan chests for drawings shall also be provided by the contractor	
	The Contractor shall allow for the cost of providing light refreshment for the consultants at site meetings.	
	TEMPORARY DISPOSAL OF RAIN WATER	
В	The Contractor shall provide and maintain all necessary temporary gutters, downpipes, chutes, drains etc. for conveying rainwater from the buildings and storage tanks for rainwater harvesting.	
	The Contractor shall allow for temporary drainage plumbing and piping for keeping the premises and site free from accumulation of water. He shall also allow for construction and maintaining any necessary storm water drainage structures as directed.	
	CLEARING AWAY	
С	The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate, on intervals as intructed by the Engineer and upon completion of the works, remove and clear away all plant, equipment, rubbish, unused materials and stains and leave in a clean and tidy state to the reasonable satisfaction of the Engineer.	
	The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Engineer.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	SITE ACCOMODATION & STORAGE	
	The Contractor shall provide sheds for storage accommodation for all goods and materials liable to suffer damage from exposure to sunlight or inclement weather.	
	The Contractor shall provide offices, mess rooms and all the buildings required by the Contractor for his own use and the use of Nominated Sub-Contractors as required by the items of attendance only.	
	The Contractor shall provide at his own risk and cost where directed on the site weather proof lock-up sheds and make good damaged or disturbed surfaces upon completion to proof lock-up sheds and make good damaged or disturbed surfaces upon completion to the satisfaction of the Engineer	
	Upon completion all temporary buildings are to be removed and cleared away	
В	SANITATION OF THE WORKS	
	The sanitation of the works shall be provided, maintained and removed on completion by the Contractor to the satisfaction of the Engineers and local Authorities.	
	The sanitary facilities shall be of generally acceptable standard regardless of the material being used to ensure ease of cleaning and maintain general well being of the users. Their location shall be agreed with the Engineers and the works shall not be commenced before the sanitary accommodation has been approved by the above mentioned authorities.	
	The Contractor will be required to pay all conservancy charges and shall ensure clean daily maintenance and disinfecting of the sanitary facilities, and not less than once per week, the whole area shall be sprayed with disinfectant and insecticides and any temporary drains shall be removed and all works and surfaces disturbed made good and then the whole area disinfected and left clean and free from pollution to the satisfaction of the Engineer and local authorities.	
С	<u>HOARDINGS</u>	
	The Contractor shall provide, erect and maintain throughout the course of the Contract and thereafter clear away and make good disturbed areas, temporary hoarding; approximate length of 1000 metres: 2400mm high above ground consisting of: 100mm diameter timber poles at 1200mm centres firmly founded and secured, 75x50mm horizontal timber rails at 900mm centres, painted GCI sheets, proper timber gates with suitable locks to Engineers approval.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	DEMOLITIONS AND DOWNTAKINGS	
	The Contractor is to allow for all temporary protection required during the works including ordinary and special dust screens, hoardings, barriers, warning signs etc. as directed by the Engineer and as necessary for the adequate protection of adjacent property and finishes, workmen employed upon the site and the public. Any damage or loss incurred due to the insufficiency of such protection must be made good by the Contractor. All protective devices are to be removed on completion of the work and any necessary making good consequent upon this is to be executed to the satisfaction of the Engineer	
	All materials arising from demolitions and downtakings are deemed to be the property of the employer. No claim will be entertained on account of employer excising this right to retain the materials unless otherwise stated.	
	The Contractor shall allow in his rates the cost of handling and disposal of debris arising out of the demolition works	
	All downtakings shall be carefully removed, taken down, dismantled and stored on site until instructed by the Engineer to remove from the site. Such materials shall only be incorporated in the new works if required by the Engineer in which case appropriate adjustments will be made in the final account for the cost of labour, screws etc for fixing such downtakings in the new works.	
	The Contractor shall be entirely responsible for any breakage or damage which may occur to materials required for re-use, during their removal, unless it is certified by the Engineer that such damage or breakage was inevitable as a result of the condition of the item concerned.	
В	ACCESS TO SITE AND TEMPORARY ROADS	
	Means of access to the site shall be agreed with the Engineer prior to commencement of the works and the Contractor must allow for building and maintaining any temporary access roads for the transport of materials, plant and workmen as may be required for the complete execution of the works including the provision of temporary culverts, crossings, bridges or any other means of gaining access.	
	Upon the completion the works the Contractor shall remove such temporary roads, temporary culverts bridges etc and make good and reinstate all works and services disturbed to the satisfaction of the Engineer.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	SIGN BOARD	
	The Contractor shall provide and erect where directed and maintain during the whole period of the building operation and remove at completion, one approved sign board of approximately 3000x3000mm and approximately 5800mm overall height to the Architect's later design giving a brief description of the works, a 3D perspective image of the project, and showing the names of the employer and the consultants, with sufficient space to append the names of the sub-contractors and suppliers when known. The lettering concerning the Architect, Quantity Surveyor and Engineer is not to be more than 50mm high.	
В	PRIME COST SUMS	
	i) The words "Prime Cost" (or the initials "P.C") appearing in the contract documents shall mean net costs exclusive of any trade, cash or other discount whatsoever but inclusive of the costs of the packing, carriage and delivery. Such costs shall be the same due to the sub-contract or supplier after adjustments where applicable in respect of measurements of rates.	
	ii) Any increase or decrease in the prime costs sums resulting from the adjustments and properly paid by the contractor shall be added or deducted from the contract sum in the final account. In substantiation the contractor will require to produce to the Quantity Surveyor all quotations, invoices and receipted accounts as shall be necessary to show the details of the sums actually paid.	
	iii) Any sum added by the contractor in these Bills of Quantities in respect of profits upon any prime costs will be deducted at the final settlement of accounts and the sum will be added to the amount of which will bear the same proportion to the sum added as the net amount properly expended to the original P.C sum. The profit is a management fee for arranging and taking responsibility of the sub-contract works or arranging for and checking the supply of materials and goods from nominated suppliers.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	NOMINATED SUB-CONTRACTORS	
	The contractor shall accept responsibility for providing the following services for nominated sub-contractors.	
	i) GENERAL ATTENDANCE:	
	The following services are described as "allow for general attendance" . This shall mean:	
	a) Use for the purpose of the sub-contract works of any scaffolding belonging to or provided by the contractor while it remains so erected upon site, provided that no warranty or other liability on the part of the contractor or of his other sub-contractors shall be created or implied in regard to the fitness, condition or suitability of the said scaffolding	
	b) Provision of water, lighting, watching and attendance for the purpose of the sub-contract works.	
	c) Use of sanitary accommodation, mess rooms and welfare facilities.	
	d) Provision of space for erecting of offices or stores or space for storage of plant and materials.	
	ii) SPECIAL ATTENDANCE:	
	The following services are described as "allow for special attendance" . This shall mean:	
	a) Taking delivery and including the provision of unskilled labour necessary to attend upon the sub-contractors workmen for the purpose of unloading plants/equipment and materials of significant weight and/or size, when received upon the site and placing in position within the sub-contractor's storage space or store.	
	b) Special Scaffolding, scaffolding additional to the Contractors scaffolding or Reassembling of contractor's scaffolding.	
	c) Facilitating special power requirements during the course of the works.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	CLAIMS	
A	It shall be a condition of this contract that upon it becoming reasonably apparent to the Contractor that he has incurred losses and / or expenses due to any of the contract conditions, or by any other reason whatsoever, he shall present such a claim or intent to claim notice to the Engineer within the contract period. No claim shall be entertained upon the expiry of the said contract period.	
	PAYMENTS	
В	The tenderer's attention is drawn to the fact that the payments shall be made in accordance with Clause 14 of the Conditions of Contract Agreement. In order to facilitate this, a list of the general component elements for the works is given at the summary page of these specifications and the tenderer is requested to break down his tender sum commensurate to the said elements.	
	PREVENTION OF ACCIDENT, DAMAGE OR LOSS	
С	The Contractor is thus instructed to take reasonable care in the execution of the works as to prevent accidents, damage or loss and disruption of activities being carried out. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
Α	NOMINATED SUPPLIERS	
	The contractor shall take delivery all materials or goods supplied by the Nominated suppliers and shall sign a receipt as having received them in good order and condition. He shall offload, transport to site, unload, hoist, provide safe storage and thereafter be responsible for any loss or damage or replacement of any such lost or damaged articles at his own expense and shall return case if so required.	
	Provision is made herein following each appropriate P.C sums for the costs of the foregoing services against items reading "take delivery of and fix only"	
	Fix Only:-	
	"Fix Only" shall mean take delivery on site, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.	
В	DIRECT CONTRACTS	
	Notwithstanding the foregoing conditions, the Government reserves the right to place a "Direct Contract" for any goods or services required in the works which are covered by a P.C. Sum in the Bills of Quantities and to pay for the same direct. In any such instances, profit relative to the P.C. Sum in the priced Bills of Quantities will be adjusted as described for P.C. Sums is allowed.	
С	PROTECTION OF THE WORK	
	The Contractor shall cover up and protect all finished work liable to damage including provision of temporary roof, gutters, drains etc until the completion of the works.	
	In the event of any damages occurring to the works, materials, sewers, drains, gullies, paths or other works on site in temporary possession of the contractor for the purpose of this contract either from weather, want of proper protection, defects, or insufficiency of the works or any other causes or whatsoever during the progress of the works, the contractor shall be responsible and without extra charge, make good all damage and pay all costs which may be levied.	
	BLASTING OPERATIONS	
D	Blasting will only be allowed with the express permission of the Engineer in writing. All blasting operations shall be carried out at the Contractor's sole risk and cost in accordance with any Government regulations in force for the time being, and any special regulations laid down by the Engineer governing the use and storage of explosives.	
	Carried to collection	

17514	DECODIDATION	AMOUNT
ITEM	DESCRIPTION	AMOUNT
	PREVENTION OF NUISANCE	
A	The works and such sections of the site necessary thereafter shall be under the entire care and control of the contractor during the whole period of the contract and shall take all possible precautions to prevent any nuisance, inconvenience or injury to the holder or occupiers of the existing or surrounding properties and to the public generally, and shall at all times keep all paths and roads affected by the works in a safe and clear state, and shall use proper precautions to ensure the safety of all wheeled traffic and pedestrians.	
	The contractor shall provide appropriate screens to seal off the working area.	
	REMOVAL OF PLANT AND RUBBISH ETC	
В	The Contractor shall upon completion of the works remove and clear away all temporary buildings, plant, rubbish and unused materials, and shall leave the whole of the site of the works in a clean and tidy state to the satisfaction of the Engineer. He shall also remove all rubbish and dirt from the site at intervals or as directed by the Engineer.	
	Particular care shall be taken in leaving windows, floors and fittings clean and the removal of all paint and cement stains therefrom.	
	The contractor is expected to have established a well planned method of solid disposal of debris/garbage on and off the camp site	
	CONTRACTOR'S SUPERINTENDENCE/SITE AGENT	
С	The Contractor shall constantly keep on the works a literate English speaking Agent or Representative, competent and experienced in the kind of work involved who shall give his whole experience in the kind of work involved and shall give his whole time to the superintendence of the works.	
	Such Agent or Representative shall receive on behalf of the Contractor all directions and instructions from the Engineer and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.	
	Carried to collection	

ITEM	DESCRIPTION	AMOUNT
	TRAINING LEVY	
A	The Contractor's attention is drawn to legal notice No. 237 of 2007 which requires payment by the Contractor for a training levy and the contractor shall allow in the preliminaries of this contract (basic rates column) for all costs arising or resulting therefrom.	
	Proof of payment of this Levy should be provided at the request of the Engineer	
	STANDARDS LEVY	
В	The Contractor is required to make payments to the Kenya Bureau of Standards as Standard Levy inline with the current current and prevailing regulations.	
	VALUE ADDED TAX (V.A.T.)	
С	The Contractor's attention is drawn to V.A.T PUBLIC NOTICE NO. 6 of 5th August, 1993 regarding the Finance Bill 1993 which expanded the V.A.T base to cover construction services amongst other items. The Contractor's attention is also drawn to all other notices issued by the government in relation to taxation. The Contractor shall familiarise himself with the said notices and allow in all his Bills of Quantities rates (Excluding P.C and Provisional Sums) for the net tax. (i.e less input tax where applicable) as required by law.	
	Please note that allowing a lump sum tax either in preliminaries or in summary page shall not be acceptable.	
	Any additional information and assistance concerning the application of the said notice should be directed to the office of the Commissioner of Value Added Tax	
	Carried to collection	

ITEM DESCRIPTION	AMOUNT
BILL NO. 1	
GENERAL PRELIMINARIES	
COLLECTION	
Carried from page 1/9	
Carried from page 1/10	
Carried from page 1/11	
Carried from page 1/12	
Carried from page 1/13	
Carried from page 1/14	
Carried from page 1/15	
Carried from page 1/16	
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Carried from page 1/26	
Carried from page 1/27	
Carried from page 1/28	
Carried from page 1/29	
Total for General Preliminaries Carried to Summary of Bill No. 1	_

ITEM	DESCRIPTION	UNIT	AMOUNT
	BILL NO. 3		
	PROJECT EXPENSES		
	Disclaimer: The following items are provisional sums provided by the Engineer. They are to be expended at the written instruction of the Engineer.		
	Note: Tenderers should not attach, revise or add any conditions or specifications to the project supervisor's expenses		
A	Provide and maintain equipment for the Engineer's site office for the duration of the project	Lump Sum	2,500,000.00
В	Provide for supervision as follows: 1 No. Clerks of works, (Building and services) for the duration of project and 1 no. Work Inspectors, and 1 No Surveyor to be engaged on need basis.	Lump Sum	2,700,000.00
С	Allow a provisional sum of Kshs. Ten Million (10,000,000) for 2 No. Resident Engineers.	Lump Sum	10,000,000.00
D	Allow a provisional sum of Kshs. Eight Million (8,000,000) for Project Management Team and other stakeholders facilitation allowances during project implementation, as and whenever it is necessary.	Lump Sum	8,000,000.00
E	Allow a P.C. Sum of KShs. 8,500,000 for supply of 1 Nr. (one)4WD station wagon SUV zero mileage vehicles of 2500 cc, or approved equivalent, including road licenses, number plates, insurances, etc. The vehicles to revert to Employer after completion of Contract. Minimum specifications include but not limited to the following: • Engine - 2.5 litres Turbo Diesel • Rear Differential Gear Lock • Braking System to include ABS (Anti-Lock Brake System) • Power Steering with adjustable Steering Column • Electronic Fuel Injection System. • 5 Speed Semi-Auto Transmission • Power Windows • Immobilizer and Alarm System • Fuel tank capacity between 80 litres and 100 litres	Item	8,500,000.00
F	Provide for the driver, fuels, maintenance, lubricants and servicing of the vehicle for kilometrage over 1,500 km per vehicle month.	Item	1,440,000.00

ITEM	DESCRIPTION	UNIT	AMOUNT
A	Provide a Prime-cost sum of Kshs five Hundred Thousand, (500,000.00) only for carrying out environmental impact assessment before the commencemennt of works and and undertaking environmental mitigation measures as the work progresses.	Item	500,000.00
В	Provide a Prime-cost sum of Kshs one million, (1,000,000.00) only for carrying out Geotechnical survey before the commencemennt of works and preparation of the reports	Item	1,000,000.00
С	Allow a provisional sum of Kshs. Two Hundred and Fifty Thousand (250,000.00) for stationery, documentation, model making, review and preparation of as built drawings Manager.	Item	250,000.00
D	Allow a provisional sum of Kshs. Three Hundred and Fifty Thousand (350,000.00) for provision of Laptop Computer for the Engineer's Team.	Item	350,000.00
	Contractor's profits and overheads		
E	Allow for the Contractor's overheads and profits on items above		
	Total for Project Expenses Carried to Summary of Bill No. 1		

BUILDERS WORK	

F	BLOCK TYPE E

Item	Description	Unit	QTY	Rate	Block A G+14
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE E G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT NO 1 - SUBSTRUCTURES (ALL PROVISIONAL)				
A	<u>Site Clearance</u> Clear site of all grass, hedges, shrubs, bushes grub up roots, load and remove from site and dispose at designated local authority areas.	SM	778		
В	Bulk excavation to reduce levels depth not exceeding 1.5m commencing from existing ground level	СМ	1,167		
С	Ditto but exceeding 1.5 metres but not 3 metres deep	СМ	1,167		
D	Ditto but exceeding 3.0 metres but not 4.5 metres deep	СМ	855		
E	Extra over all type of excavation for excavating in soft rock	СМ	319		
F	Ditto excavation in hard rock class I	СМ	319		
	Disposal of water				
G	Allow for keeping the whole of the excavation free from all spring and running water by pumping or any other such means as may be necessary	Item			
	Planking and strutting				
Н	Allow for maintaining and upholding the sides of excavations and keeping excavations clear of all fallen materials, rubbish etc	Item			
	Carried to collection				

Item	Description	Unit	QTY	Rate	Block A G t 1
	<u>Disposal of excavated material</u>				
A	Load, wheel and cart away surplus excavated material to a Local Authority designated dumping site or fill soil heaps as away from site instructed by the Project Engineer.	СМ	883		
В	Return, fill and ram selected excavated material around sides of foundations.	СМ	2,306		
	Fillings				
С	Make up levels using approved imported materials: compacted in layers not exceeding 300mm thick with a roller: to the satisfaction of the Structural Engineer.	СМ	2,129		
D	300mm thick hardcore bed: hand packed: compacted in layers not exceeding 150mm thick: to the satisfaction of the Structural Engineer	SM	710		
E	50 mm Stone dust/ Murrum blinding to surfaces of hardcore	SM	710		
F	Anti - termite to treatment Approved anti-termite treatment, with ten-year guarantee, sprayed to surfaces of hardcore strictly in accordance with manufacturer's instructions.	SM	778		
	Damp-proof membrane				
G	1000 gauge polythene or other equal and approved damp-proof membrane, laid over blinded hardcore (measured separately) with 300mm side and end laps (measured nett-allow for laps); 1 No. layer: bedded in and including cement and sand (1:3) mortar	SM	778		
	Concrete Blinding				
	Insitu concrete Class 15MPa: vibrated:				
Н	50 mm thick blinding under raft	SM	778		
I	50 mm thick blinding under ground beams	SM	83		
	In- situ vibrated reinforced concrete Class 25 MPa: in:				
J	Raft Foundation	CM	701		
K	Ground Beams	CM	32		
L	100mm thick surface bed	SM	526		
M	Steps	CM	1		
	In- situ vibrated reinforced concrete Class 30 MPa: in:				
N	Columns	CM	38		
0	200mm thick Lift pit shaft wall	SM	44		
	Carried to collection				
ļ	Carried to collection	ļ			

Item	Description	Unit	QTY	Rate	Block A G+14
	Ribbed reinforcement steel bars to KS 573:2014: Grade 500 high tensile strengthincluding bends, hooks, tying wire and distance blocks; to S.E's detail (Provisional)				
A	Assorted reinforcement	KGS	53,807		
	Mesh fabric reinforcement to KS/EAS 412;2 (2019) BRC A142;200 x 200mm, weighing 2.22kg/m² (measured net - no allowance) for laps; in two layers - top & bottom; including bends, tying wire and spacer blocks)				
В	In ground floor slab	SM	526		
	Modular steel frame with steel plates covering formwork and/or marine board formwork: to:				
С	Sides of raft foundation	SM	113		
D	Sides of ground beams	SM	312		
E	Vertical sides to columns	SM	373		
F	Vertical sides to lift shaft walls	SM	88		
G	Edge of slab not exceeding 150mm girth	LM	127		
Н	Edges of risers 75 - 150mm high	LM	12		
	Foundation Walling				
	Natural quarry stone walling with a minimum of 7.0 N/mm2 bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25×3 mm thick hoop iron strips at every alternate course as described in;				
I	200mm thick walls in foundations	SM	372		
	Pavings				
J	Supply and lay 600 x 600 x 50mm reinforced concrete precast paving slabs around the building including laying, spreading and compacting 100mm thick approved sand bed blinding, on and including 150mm thick compacted hardcore to Engineer's approval.	SM	77		
	Plinth				
	25mm Thick cement and sand (1:4) rendering on concrete or				
K	masonry; wood float finished; to Plinths externally	SM	58		
	Two coats black bitumastic paint on:				
L	Rendered surfaces	SM	58		
	Cement/sand (1:3) screed with approved waterproofing admixture, steel trowelled hard and smooth to receive waterproofing (m/s)				
M	20mm thick water proof cement/sand (1:4) screed to lift pit floor prepared to receive water proofing	SM	9		
N	12mm thick water proof cement/sand (1:4) render to wall prepared to receive water proofing	SM	44		
	Carried to collection				

Item	Description	Unit	QTY	Rate	Block A G+14
	Waterproofing				
	CRYSTALLINE WATERPROOFING				
	All areas indicated shall be waterproofed by approved cementious system, provide 10 year guarantee, all to manufacturer's				
	specifications and instructions as described:				
	Two coat slurry application: waterproofing powder: 1kg per m2 per coat, minimum 2 coats to seal all expansion joints, holes, repaired areas and angle fillet or as per manufacturers instructions				
	Application of render coat: waterproofing powder: 1kg per m2 at 4.5mm thick on slabs. Rate shall allow for hacking and preparing all concrete surfaces or as per manufacturers instructions				
A	Horizontal surfaces of lift base	SM	9		
В	Vertical surfaces of Lift shaft walls	SM	44		
	HANGING LINES				
	<u>Pavings</u>				
С	Supply and lay $600 \times 600 \times 50$ mm reinforced concrete precast paving slabs around the building including laying, spreading and compacting 100mm thick approved sand bed blinding, on and including 150mm thick compacted hardcore to Engineer's approval.	SM	50		
D	50mm diameter X 2mm thickness CHS posts. T-fabricated at a height of 2M and anchoured 500mm deep in mass conctrete. Each post to have 3 hanging lines.	NO	20		
E	Supply and install approved Hanging lines 4 mm thick; Material made of Nylon.	LM	100		
	Occated to a self-action				
	Carried to collection				
	COLLECTION				
	Total brought forward from page no: 1				
	Total brought forward from page no: 2				
	Total brought forward from page no: 3				
	Total brought forward from above				
	ELEMENT NO. 1 Carried to				
	SUBSTRUCTURES Main summary				

Item	Description	Unit	QTY	Rate	Block A G+14
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT No 2 - R.C FRAME				
	Insitu concrete class 30MPa: vibrated: reinforced				
A	Columns	СМ	564		
В	200mm thick Lift shaft wall	SM	592		
	Insitu concrete class 25MPa: vibrated: reinforced				
С	Beams	СМ	570		
D	Upper Roof Beams	СМ	6		
E	130mm thick suspended slabs	SM	6,585		
F	150mm thick suspended slabs	SM	660		
G	150mm thick cantilevered suspended slabs	SM	12		
Н	150mm thick Tank Slab over stairwell	SM	63		
I	Tank Bearers	CM	20		
J	150 mm thick landing	SM	165		
K	Staircases	СМ	120		
L	100 mm thick reinforced concrete benches reinforced with BRC mesh A142 complete with formwork and all necessary hardened steel troweled plasterworks/screed work	SM	56		
M	Ditto: but kitchen worktops	SM	225		
	Ribbed reinforcement steel bars to KS 573:2014: Grade 500 high tensile strengthincluding bends, hooks, tying wire and distance blocks; to S.E's detail (Provisional)				
N	Assorted reinforcement	Kg	231,019		
	Modular steel frame with steel plates covering formwork and/or marine board formwork: to				
О	Sides of columns	SM	5,511		
P	Sides and soffites of beams	SM	5,680		
Q	Soffits of suspended slabs	SM	7,320		
R	Edges of slab over 75mm but not exceeding 150mm girth	LM	2,776		
S	To sloping soffites of staircases	SM	255		
Т	Soffits of landings	SM	165		
U	Riser of steps over 150 mm but not exceeding 225 mm girth	LM	750		
V	Staircase string 300mm extreme girth and cut to profile of steps	LM	405		
W	Edges of landing over 150 but ot exceeding 225mm high	LM	285		
X	Sides of lift walls	SM	1,184		
Y	Edges of lift shaft openings 150-225mm high ELEMENT NO. 2 Carried to	LM	192		
	R.C FRAME Main summary				

Item	Description	Unit	QTY	Rate	Block A G+12
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT No 3-WALLING				
	WALLING				
	External Walling				
A	Machine cut quarry stone walling with a minimum of 7.0 N/mm2 average compressive strength; bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25 x 3 mm thick hoop iron strips at every alternate course as described in; 200mm thick walling Externally	SM	3,173		
В	200mm thick parapet walling	SM	252		
	Internal Walling	2	202		
	Machine cut quarry stone walling with a minimum of 7.0 N/mm2 average compressive strength; bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25 x 3 mm thick hoop iron strips at every alternate course as described in;				
С	200mm thick walling Internally	SM	3,855		
D	150mm thick walling Internally	SM	3,885		
E	100mm thick walling Internally	SM	945		
F	Approved hessian based damp proof course to 200mm thick walling in cement/sand mortar	LM	264		
G	Approved hessian based damp proof course to 150mm thick walling in cement/sand mortar	LM	151		
	<u>Precast Concrete Breeze Ventilation Blocks</u>				
Н	150 x 150mm wide x 50mm thick Pre Cast Concrete flower 3D breeze ventilation blocks bedded and jointed in cement and sand (1:4) mortar	SM	704		
	COPING				
I	600×350 wide x 100 mm thick insitu reinforced concrete class 20 Mpa coping, throated and weathered and jointing to columns with cement sand 1:4 mortar	NO	69		
J	Ditto 300 x 100mm insitu concrete coping to walls twice weathered and throated;	LM	168		
	Lintols				
K	200mm x 200mm Deep lintols in reinforced concrete class 20MPa with and including 4No T10 and T8 stirups at 200mm centres; complete with formwork	LM	770		
	ELEMENT NO. 3 Carried to				
	WALLING Main summary				

Item	Description	Unit	QTY	Rate	Block A G+1
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT NO 4-WINDOWS				
	MILD STEEL WINDOWS				
	Supply, fabricate and fix the following purpose made small pane mild steel casement windows to be fabricated from approved mild steel sections (atleast 14g 2mm thick) comprising of frame and casement incorporating permanent hooded high level ventilation panels infilled with mosquito gauze: window supplied complete with and including 12mm solid square burglar proofing bars fixed at 200mm centres both ways and metal fixing lugs including building into wall and making good, and all necessary iron mongery viz hinges, fasteners, and hasp including shop priming window with red oxide primer before delivery to site:-				
	A prime cost sum of Kshs 6,000 per Sqm has been allowed for fabrication of the above specified Steel casement Windows by AHP juakali artisans as approved by the Project Manager/Architect.				
	The contractor's unit rate shall include the cost of transport, storage, fixing and all associated accesories in addition to the PC Rate.				
A	Window, overall size 1200 X 1500mm high to Architects Details (Lounge)	NO	-		
В	Ditto Size 1200 x 1500mm high (bedroom)	NO	375		
C	Ditto Size 800 x 900mm high (Kitchen)	NO	135		
D	Ditto Size 600 x 900mm high (WC/SH)	NO	176		
	Glazing				
E	4mm Thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with premium putty	SM	675		
F	Ditto; obscure	SM	210		
	Painting and Decorations				
	On Metal work				
	Prepare and apply aerosol spray painting in two finishing coats of first grade paint as per the manufacturer's printed instructions to: -				
G	General window and grille surfaces; over 300mm girth internal	SM	1,770		
	Carried to Collection				

Item	Description	Unit	QTY	Rate	Block A G+14
	Precast concrete window cill finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in pigmented cement and sand (1:3) mortar				
A	150×25 mm thick Precast concrete window sill	LM	825		
	Curtain rods;				
В	1.5mm thick, 20mm thick diameter twin powdercoated mild steel rod complete accessories to approval	LM	660		
	Carried to collection				
	COLLECTION				
	Total brought forward from page no: 7				
	Total brought forward from above				
	ELEMENT NO. 4 Carried to the				
	<u>WINDOWS</u> Main summary				

Item	Description	Unit	QTY	Rate	Block A G+1
	PROPOSED SOCIAL HOUSING UNITS BLOCK				
	(TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT NO 5-DOORS				
	External Doors				
	Steel Casement Doors				
	Fabricate, deliver and install the following purpose made steel casement doors (to Architect detail) to comply to B.S 990,				
	obtained from approved manufucturer, primed with redoxide				
	primer before delivery to site, complete with hinges, handles, catches and to include 300mm high louvered top vent covered				
	with mosquito gauze wire reinforced with coffee tray wire.				
	A prime cost sum of Valor 8 000 mar Sam has been allowed for				
	A prime cost sum of Kshs 8,000 per Sqm has been allowed for fabrication of the above specified Steel casement Doors by AHP				
	juakali artisans as approved by the Project Manager/Architect.				
	The contractor's unit rate shall include the cost of transport,				
	storage, fixing and all associated accesories in addition to the				
	PC Rate.				
A	Double leaf door size 1500 x 2400mm high	NO	1		
В	Single leaf Size 900 x 2400mm high	NO	181		
	Painting and decoration: Metal Surfaces				
	Prepare surfaces and apply one undercoat and two finishing coats of				
	first quality gloss oil paint to:				
С	General metal surfaces	Sm	791		
	Carried to collection				A/1

Item	Description	Unit	QТY	Rate	Block A G+14
	Internal Doors				
	Flush timber doors				
	50 mm thick Semi Solid cored flush doors with plywood facing to receive painting (m.s) all to Architects details, specifications				
	and approval				
	A prime cost sum at the rate indicated below for fabrication of				
	the above specified Timber Flush door leaves by AHP juakali artisans as approved by the Project Manager/Architect.				
	The contractor's unit rate shall include the cost of transport,				
	storage, fixing and all associated accesories in addition to the PC Rate.				
	<u>r o raco.</u>				
	Door size 900mm x 2400mm High comprising of 1 No Opennable				
A	leaf size 800 x 2100mm high including fixed fanlight size 900 x 300mm high in 4mm clear glass (measured separetely) (PC Rate	NO	-		
	Kshs 4,000)				
В	Ditto 800 x 2100mm high comprising of 1No. Opennable leaf size	NO	376		
	700 x 2100mm high (PC Rate Kshs 3,500)	NO	370		
	4mm Thick clear sheet glass fixing with matching timber				
	glazing beads to timber frames				
С	In panes exceeding 0.1 sqm but not exceeding 0.5 square metres.	SM	_		
	<u>Frames and frame finishes in cypress Timber</u>				
D	25 x 25mm quadrant (PC Rate Kshs 75)	LM	1,880		
E	25 x 50mm architrave with two labours, plugged (PC Rate Kshs 150)	LM	1,880		
	150mm x 50mm transome with three labours; chamfered edges;				
F	plugged (PC Rate Kshs 800)	LM	-		
_	150mm x 50mm frame with three labours; chamfered edges; plugged				
G	(PC Rate Kshs 800)	LM	1,880		
	Carried to collection				

Item	Description	Unit	QTY	Rate	Block A G+14
	Painting and decorating				
	Priming back of frame with an aluminium or equivalent and approved				
	wood primer				
A	Surfaces not exceeding 100mm girth	LM	3,760		
В	Surfaces over 100mm but not exceeding 200mm girth	LM	1,880		
	Prepare Knot, prime, stop and apply one undercoat and two finishing				
	coats first grade timber quality paint to wood surfaces as per the manufacturer's printed instructions				
С	General timber surfaces	SM	2,070		
D	Surfaces over 200mm but not exceeding 300mm girth	LM	1,880		
E	Architraves: not exceeding 100 mm girth	LM	1,880		
F	Quadrant beading: not exceeding 100 mm girth	LM	1,880		
	Ironmongery				
	Supply and fix the following ironmongery to timber				
	complete with matching screws and keys to the approval of				
	the Architect				
G	100mm pressed steel Butt Hinges	PRS	839		
Н	Stainless steel 3 Lever Mortice Door Lock with handle furniture set;(keyhole escutcheons, cylinder and latch)	NO	182		
I	Ditto: but 2 Lever Door Lock with handle	NO	376		
J	40mm Diameter rubber door stop with rawl bolt	NO	559		
K	Door fixing cramps	NO	558		
	Supply and fix the following purpose-made signage in printed vinyl panels in approved background and text colours in				
	accordance to the architects later signage design fixed to finished surfaces in the approved adhesive and matching screws				
	as applicable to;				
L	200 x 50mm Main door signage	NO	181		
M	150x450mm Floor Level Indicator Sign	NO	30		
N	500x100 Floor Wayfinding/Directional Sign	NO	30		
О	200x200mm Duct door Signage	NO	390		
P	450x200 mm Fire Exit Signage	NO	30		
Q	1000x300 mm Block Identification Signage	NO	1		
	Carried to Collection				
	COLLECTION				
	Total brought forward from page no: 9				
	Total brought forward from page no: 10				
	Total brought forward from above				
	ELEMENT NO. 5 Carried to				
	DOORS Main summary				Λ/15

Item	Description	Unit	QTY	Rate	Block A G+14
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT NO 6 - EXTERNAL FINISHES				
	EXTERNAL WALL FINISHES				
	External Render				
	Cement and sand (1:3) render:wood floated: on concrete or blockwork: to				
A	15mm thick to beams, Columns, Slab Moulds and walling externally	SM	5,197		
	External Painting				
	Prepare and apply one coat Alkali Resistant primer followed by two coats of silicon exterior Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the architect to				
В	Concrete/masonry surfaces externally-Beam, Column and Slab Moulds	SM	5,197		
	ROOF FINISHES Cement and sand (1:3) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to:				
С	50mm average waterproofed lightweight screed laid to falls and crossfalls to roof slabs -upper roof including gutter bases	SM	527		
	Prepare and apply to vertical/horizontal surfaces 4mm thick APP/EPDM water proofing or other equal and approved membrane with surface finish weighing 4kg/sm; laid on primer with torch-on process; by an approved specialist all in accordance with the manufacturers instructions including provision of a written ten (10) year anti leak guarantee.				
D	4mm thick APP membrane applied to roof slabs	SM	527		
E	Ditto to skirting 200mm high	LM	229		
F	Dress membrane around 100mm rainwater outlet	No.	71		
G	The Following Flat roof concrete tiles fixed with approved adhesive, laid and jointed with waterproofing bituminous compound 20mm thick interlocking Concrete tiles of size 225 x 225mm with and including cement sand (1:4) backing to falls	SM	527		
	ELEMENT NO. 6 Carried to EXTERNAL FINISHES Main summary				

Item	Description	Unit	QTY	Rate	Block A G+14
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT NO 7 - INTERNAL FINISHES				
	Internal Wall Finishes				
	Cement and sand (1:3) backings				
A	15mm thick waterproofed cement and sand (1:3) backings to receive Ceramic Wall tiles:	SM	1,776		
В	To receive porcelain wall tiles (m.s.) (Lift Lobby)	SM	128		
	Ceramic wall tiles				
	Allow a Prime Cost supply rate of Ksh. 1000 per SM (Rate to include cost of purchase, transport, offload, storage, fixing, wastage including all necessary adhesives and accessories				
С	Supply and Fix ceramic wall tiles on prepared backings(m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval Wall Surfaces: 600mm to walls above kitchen worktops and 2100mm high to walls in showers	SM	1,776		
	Porcelain wall tiles Allow a Prime Cost supply rate of Ksh. 1500 per SM (Rate to include cost of purchase, transport, offload, storage, fixing, wastage including all necessary adhesives and accessories				
D	Supply and Fix porcelain wall tiles on prepared backings(m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval Wall Surfaces: to lift shaft front face	SM	128		
	15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:-				
E	Concrete/masonry surfaces	SM	24,857		
	Painting and Decoration				
	Prepare, Skim and apply Emulsion or universal undercoat followed by 2 finishing coats of soft satin Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the architect to				
F	Plastered concrete/masonry surfaces internally	SM	24,857		
	Carried to Collection				

Item	Description	Unit	QTY	Rate	Block A G+14
	Floor Finishes				
	Cement and sand (1:3) screeds, backings, beds etc				
Α	32mm thick waterproofed screed finished to receive floor Tiles (m.s) in Showers	SM	211		
В	32mm Thick hardened and coloured steel troweled cement sand screed mix 1:3 finished with red oxide to approval	SM	4,331		
В	32mm Thick screed finished to receive terrazzo flooring (m.s) in lobbies and corridors	SM	1,679		
С	Ditto: to surfaces of Landings	SM	165		
D	25 x 300 mm wide treads	LM	705		
E	20 x 150mm risers	LM	750		
F	Ceramic Floor tiles Allow a Prime Cost supply rate of Ksh. 1000 per SM (Rate to include cost of purchase, transport, offload, storage, fixing, wastage including all necessary adhesives and accessories Supply and Fix Non Slip Ceramic tiles; on prepared bed(m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval: to showers Terrazzo Flooring 20 mm Thick polished terrazzo flooring:laid on screeded surfaces (m.s) not exceeding 15 degrees fall: including floor dividing strips and non-slip grips/carborundum inserts where necessary; to	SM	211		
G	Lobbies and Corridors	SM	1,679		
Н	Ditto: 100mm wide Wall Skirtings	LM	1,428		
I	Ditto: to surfaces of Landings	SM	165		
J	Ditto: to 300 mm wide treads	LM	705		
K	Ditto: to 150mm risers	LM	750		
	Staircase soffit finishes				
	15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:-				
N	Soffits of staircase landing	SM	165		
О	Ditto to sloping soffites exceeding 15° from horizontal	SM	255		
P	Staircase string 300mm extreme girth and cut to profile of steps	LM	405		
	Carried to Collection				

Item	Description	Unit	QTY	Rate	Block A G+14
	Paint works				
	Prepare, skim and apply Emulsion or universal undercoat followed by				
	3 coats of soft satin Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the				
	architect to				
A	Soffits of staircase landing	SM	165		
В	Ditto to sloping soffites exceeding 15° from horizontal	SM	255		
С	Staircase string 300mm extreme girth and cut to profile of steps	LM	405		
	Ceiling finishes				
	15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:-				
D	Soffits of Concrete surfaces	SM	7,308		
	Painting and Decoration				
	Prepare, skim and apply Emulsion or universal undercoat followed by 3 coats of soft satin Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the architect to				
E	Plastered ceilings	SM	7,308		
	Carried to Collection				

Item	Description	Unit	QTY	Rate	Block A G+14
	COLLECTION				
	COLLECTION				
	Total brought forward from page no: 13				
	Total brought forward from page no: 14				
	Total bassacht forward from 15				
	Total brought forward from page no: 15				
	ELEMENT NO. 7 Carried to				
	INTERNAL FINISHES Main summary				

Item	Description	Unit	QTY	Rate	Block A G+1
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT NO 8- BALUSTRADING AND RAILING				
	Balustrades and staircase railings				
A	900mm high mild Steel balustrade; comprising 60 x 10mm mild Steel balusters at 900mm centres; bolted to base plate and tread (m.s), with 7No. 25mm diameter horinzontal bars, and 75x4mm diameter CHS mild Steel handrail part welded into 60x10mm balustrades; to Architects drawings	LM	138		
В	50mm diameter x 3mm CHS handrail supported by 50 x 50 x 3mm thick SHS balusters anchored to slab with and including w/steel bolts and plates at 1800mm centres smooth welded 100mm high (Staircase)	LM	120		
	Prepare, prime and apply one undercoat and two finishing coats first quality gloss oil paint on				
С	General metal surfaces of balustrading (both sides measured overall)	SM	272		
	ELEMENT NO. 8 Carried to the				
	BALUSTRADE AND RAILING Main summary				

Item	Description	Unit	QTY	Rate	Block A G+14
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	ELEMENT NO 9 - JOINERY FITTINGS				
	Allow for providing materials, labour and construct fixtures and fittings as per Architects drawings of the following JOINERY FITTINGS AND FIXTURES complete with associated iron mongery;				
	NOTE: All blockboard, MDF boards,etc in joinery works shall be lipped with hardwood lipping all round before fixing.				
	Duct doors 50mm thick laminated MDF duct doors; complete with frames, ironmongery and all necessary paintwork				
A	Duct doors size 300x2100mm high overall size - Gas duct door	NO	16		
В	Duct doors size 500x2100mm high overall size	NO	60		
С	Duct doors size 600x2100mm high overall size	NO	213		
D	Duct doors size 800x2100mm high overall size	NO	75		
E	Duct doors size 900x2100mm high overall size - Fire duct door	NO	15		
F	Duct doors size 1350x2100mm high overall size - Electrical duct door	NO	16		
	ELEMENT NO. 9 Carried to the				
	JOINERY & FITTINGS Main summary				

Item	Description	Unit	QTY	Rate	Block A G+14
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	ELEMENT NO 10 - BUILDERS WORKS IN CONNECTION WITH SERVICES (BWICWS)				
	Plumbing, Drainage and Mechanical Installations				
A	Inspect all drawings and Bills of Quantities for Plumbing, Drainage and Mechanical Installations and allow for all Builder's work associated with the installations; including cutting away and making good after installing a concealed drainage system; including cutting or leaving all holes notches, mortices, sinkings and chases in both the structure and its coverings; including but not limited to forming recess in masonry	Item			
	Electrical Services Installations				
В	Inspect all drawings and Bills of Quantities for Electrical Installations and allow for all Builder's work associated with the Electrical installations, including cutting away for and making good after Electrician installing a concealed conduit system including cutting or leaving all holes notches, mortices, sinkings and chases in both the structure and its coverings; including but not limited to forming recess in masonry	Item			
	ELEMENT NO. 10 Carried to the BUILDERS WORKS IN CONNECTION WITH SERVICES (BWICWS) Main summary				A/23

Item	Description	Unit	QTY	Rate	Block A G+14
	PROPOSED SOCIAL HOUSING UNITS BLOCK (TYPE A G+14)				
	BILL NO.4 -BLOCK E				
	MAIN SUMMARY		Page No.		Amount (Kshs.)
1	Substructures		A/4		
2	Reinforced Concrete Frame		A/5		
3	Walling		A/6		
4	Windows		A/8		
5	Doors		A/11		
6	External Finishes		A/12		
7	Internal Finishes		A/16		
8	Balustrade and Railing		A/17		
9	Joinery and Fittings		A/18		
10	Builders works in connection with services		A/19		
	TOTAL FOR 1NO. TYPE E (G+14) BLOCK				
	NO. OF BLOCKS				
	MULTIPLY BY 14 NO. OF BLOCKS	X 14			14.00
	TOTAL FOR TYPE E (G+14) BLOCK(S) CARRIED TO GRAND SUMMARY				

POWER HOUS	E

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	PROPOSED POWER HOUSE				
	BILL NO.6-BUILDERS WORKS				
	ELEMENT NO 1 - SUBSTRUCTURES (ALL PROVISIONAL)				
	,				
	Site Clearance				
A	Clear site of all grass, hedges, shrubs, bushes grub up roots, load and remove from site and dispose at designated local authority areas.	SM	24		
В	Excavate average 200mm deep to remove top vegetable soil, load, remove from site and dump in designated local authority dump site.	SM	24		
С	Excavate to reduced levels in varying depths not exceeding 1.5m deep from existing ground levels.	Cm	36		
D	Ditto exceeding 1.5m deep but not exceeding 3.0m from existing reduced levels.	Cm	12		
E	Excavate for Strip foundations depth starting from Reduced ground levels.	Cm	3		
F	Excavate for duct bank depth starting from Reduced ground levels.	Cm	4		
G	Extra over all type of excavation for excavating in soft rock	Cm	3		
Н	Ditto excavation in hard rock class I	Cm	3		
	Disposal of water				
I	Allow for keeping the whole of the excavation free from all spring and running water by pumping or any other such means as may be necessary	Item			
	Planking and strutting				
J	Allow for maintaining and upholding the sides of excavations and keeping excavations clear of all fallen materials, rubbish etc	Item			
	Carried to collection				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	Disposal of excavated material				
A	Return, fill and ram selected excavated material around foundations.	СМ	65		
В	Load,wheel and cart away surplus excavated material to a Local Authority designated dumping site or fill soil heaps as away from site instructed by the Project Engineer.	СМ	15		
	Fillings				
С	Make up levels using approved imported materials: compacted in layers not exceeding 300mm thick with a roller: to the satisfaction of the Structural Engineer.	СМ	49		
D	300mm thick hardcore bed: hand packed : compacted in layers not exceeding 150mm thick: to the satisfaction of the Structural Engineer	SM	36		
F	50 mm Thick Murram Blinding to surfaces of hardcore	SM	36		
	Anti - termite to treatment				
G	Approved anti-termite treatment, with ten-year guarantee, sprayed to surfaces of hardcore strictly in accordance with manufacturer's instructions.	SM	36		
	Damp-proof membrane				
Н	1000 gauge polythene or other equal and approved damp-proof membrane, laid over blinded hardcore (measured separately) with 300mm side and end laps (measured nett-allow for laps); 1 No. layer: bedded in and including cement and sand (1:3) mortar	SM	36		
	Concrete Blinding				
	Insitu concrete Class 15MPa: vibrated:				
I	50 mm Thick under strip foundation	SM	14		
J	50 mm Thick under duct bank	SM	5		
	In- situ vibrated reinforced concrete Class 25MPa: in:				
L	Columns	CM	1		
N	Strip foundation	CM	3		
О	100mm thick duct bank sides	SM	13		
P	100mm thick duct bank bottom	SM	4		
Q	150 mm thick horizontal ground floor slab	SM	20		
	Carried to collection				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	Ribbed reinforcement steel bars to KS 573:2014: Grade 500 high tensile strengthincluding bends, hooks, tying wire and distance blocks; to S.E's detail (Provisional)				
A	Assorted reinforcement	KG	303		
	Mesh fabric reinforcement to KS/EAS 412;2 (2019) BRC A142;200 x 200mm, weighing $2.22 kg/m^2$ (measured net - no allowance) for laps; in two layers - top & bottom; including bends, tying wire and spacer blocks)				
В	In floor beds	SM	20		
	Modular steel frame with steel plates covering formwork and/or marine board formwork: to:				
С	Vertical sides to columns	SM	10		
E	Vertical sides to strip footing	SM	9		
F	Vertical sides to duck bank sides	SM	27		
G	Vertical sides to duck bank bottom	LM	49		
Н	Edge of slab not exceeding 150mm girth	LM	48		
	Foundation Walling				
	Natural quarry stone walling with a minimum of 7.0 N/mm2 bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25 x 3 mm thick hoop iron strips at every alternate course as described in;				
I	200mm thick walls in foundations	SM	46		
	<u>Pavings</u>				
J	Supply and lay 600 x 600 x 50mm reinforced concrete precast paving slabs around the building including laying, spreading and compacting 100mm thick approved sand bed blinding, on and including 150mm thick compacted hardcore to Engineer's approval.	SM	27		
	<u>Plinth</u>				
	25mm Thick cement and sand (1:3) rendering on concrete or masonry; wood float finished; to				
K	Plinths externally	SM	10		
	Two coats black bitumastic paint on:				
L	Rendered surfaces	SM	10		
	Carried to collection				
	Carried to competion				1

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	COLLECTION				
	Total brought forward from page no: 1				
	Total brought forward from page no: 2				
	Total brought forward from page no: 3				
	ELEMENT NO. 1 Carried to SUBSTRUCTURES Main summary				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	PROPOSED POWER HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT No 2 - R.C FRAME				
	Insitu concrete class 25MPa: vibrated: reinforced				
A	Columns	СМ	1		
В	Ring beam	СМ	1		
С	Ramp 200 mm thick average thickness	SM	4		
D	175 mm thick roof slab	SM	31		
	Ribbed reinforcement steel bars to KS 573:2014: Grade 500 high tensile strengthincluding bends, hooks, tying wire and distance blocks; to S.E's detail (Provisional)				
E	Assorted reinforcement	Kg	606		
	Modular steel frame with steel plates covering formwork and/or marine				
	board formwork: to				
F	Sides of columns	Sm	12		
G	Sides and soffites of beams	Sm	22		
Н	Sloping soffits of roof slab	Sm	31		
J	Edge of ramp exceeding 150mm but not exceeding 300 mm girth	Lm	3		
K	Edges of horizontal roof slab, exceeding 150mm but not exceeding 300 mm girth	Lm	23		
	ELEMENT NO. 2 Carried to				
	R.C FRAME Main summary				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	PROPOSED POWER HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT No 3-WALLING				
	WALLING				
	External Walling				
	Machine cut quarry stone walling with a minimum of 7.0 N/mm2 average compressive strength; bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25 x 3 mm thick hoop iron strips at every alternate course as described in:				
A	200mm thick walling Externally	Sm	40		
В	200mm thick parapet walling	Sm	8		
	Precast Concrete Breeze Ventilation Blocks				
С	305×305 mm wide x 150 mm thick Pre Cast Concrete lourved breeze ventilation blocks bedded and jointed in cement and sand (1:4) mortar including vermin proof gauge wire	Sm	1		
	Damp proof courses				
D	Approved hessian based damp proof course to 200mm thick walling in cement/sand mortar	Lm	17		
	Window Cill				
	Precast concrete window cill finishing fair on all exposed surfaces and hoisting and placing in position, bedding, jointing and pointing in pigmented cement and sand (1:3) mortar				
E	150 x 25mm thick Precast concrete window sill	Lm	7		
	ELEMENT NO. 3 Carried to				
	<u>WALLING</u> Main summary				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	PROPOSED POWER HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 4-DOORS				
	Steel Casement Doors				
	Supply, fabricate and fix the following purpose made mild steel casement door comprising 40 x 25 x3mm stiles, top and bottom stiles, 4 No Intermediate rails, 1.5mm steel sheet both sideswelded in place and 5mm thick clear glazing, all primed with red oxide and spray painted with two finishing coats of first grade quality gloss oil paint on; complete with all necessary ironmongery fasteners and necessary seremetals assembled and fixed to opening including cutting and pinning lugs to concrete or block work sorroung and bedding frame in cement and sand mortar (1:3).				
A	Door size 1000 x 2500mm high	NO	1		
В	Ditto Door size 2000 x 2500mm high	NO	1		
	ELEMENT NO. 4 Carried to				
	DOORS Main summary				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	PROPOSED POWER HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 5 - EXTERNAL FINISHES				
	EXTERNAL WALL FINISHES				
	External Finish				
	Cement and sand (1:3) render:wood floated: on concrete or blockwork: to				
A	15mm thick to columns/beams surfaces externally	SM	17		
	Keying				
В	Extra over horizontal and vertical pointing in 10mm thick rod in cement and sand mix (1:3) mortar including one coat Bituminous paint	SM	56		
	External Painting				
	Prepare and apply one coat Alkali Resistant primer followed by two finishing coats of silicon exterior Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the architect to				
С	Columns surfaces externally	SM	56		
	ELEMENT NO. 5 Carried to				
	EXTERNAL FINISHES Main summary				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	PROPOSED POWER HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 6 - INTERNAL FINISHES				
	Internal Wall Finishes				
	15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and				
	concrete beams as described to:-				
A	Concrete/masonry surfaces	SM	42		
В	Ditto to Jambs and reveals not exceeding 200mm girth	LM	30		
	Painting and Decoration				
	<u>Prepare, Skim and apply Emulsion or universal undercoat followed by</u> <u>two finishing coats of soft satin Emulsion paint in accordance with the</u> <u>manufacturers written instructions and to the satisfaction of the</u> <u>architect to</u>				
С	Plastered concrete/masonry surfaces internally	SM	42		
D	Ditto to Jambs and reveals not exceeding 200mm girth	LM	30		
	<u>Floor Finishes</u>				
	Plain in-situ concrete (1:3:6/20 mm agg.)				
E	40 mm Thick polished plain concrete on exisiting Reiforced concrete base; level or to falls; mixed with hardener; power floated to smooth finish to approval	SM	20		
	<u>Duct bank cover plate</u>				
F	6 mm thick chequered plate in duct bank covers including Forming 50 mm wide x 50 mm deep rebate to both sides of channel at the top; with and including 50 mm x 50 mm x 5 mm thick mild steel angle framing cast in concrete with mild steel anchor bars and grouted to both rebated sides of channel; all welding ground to a smooth finish; including priming metal surfaces with red oxide primer before delivery to site and three coats gloss oil automotive spray paint finish; all to Architect's and Structural Engineer's approval	SM	24		
G	Allow a provisional sum for foundation holes for 100 mm LG x 12.5 diamter bolts	Item			
Н	Allow a provisional sum for plates, bolts, nuts, washers e.t.c	Item			
	Ceiling finishes				
	15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:-				
I	Soffits of Concrete surfaces	SM	24		
	Painting and Decoration				
	Prepare, Skim and apply Emulsion or universal undercoat followed by two finishing coats of soft satin Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the architect to				
J	Plastered ceilings	SM	24		
	ELEMENT NO. 6 Carried to				
	INTERNAL FINISHES				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	PROPOSED POWER HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 7 - ROOFING				
	ROOF FINISHES				
	Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to:				
A	50mm average waterproofed lightweight screed laid to falls and crossfalls to roof slabs -upper roof including gutter bases	SM	31		
	Prepare and apply to vertical/horizontal surfaces 4mm thick APP/EPDM water proofing or other equal and approved membrane with surface finish weighing 4kg/sm; laid on primer with torch-on process ;by an approved specialist all in accordance with the manufacturers instructions including provision of a written ten (10) year anti leak guarantee.				
В	4mm thick APP membrane applied to roof slabs	SM	31		
С	Ditto to skirting 200mm high	LM	20		
D	Dress membrane around 100mm rainwater outlet	No.	2		
	The Following Flat roof concrete tiles fixed with approved adhesive, laid and jointed with waterproofing bituminous compound				
E	20mm thick interlocking Concrete tiles of size 225 x 225mm	SM	31		
	ELEMENT NO. 7 ROOFING Carried to the Main summary				

Item	DESCRIPTION	Unit	QTY	Rate	Amount
	PROPOSED POWER HOUSE				
	BILL NO.1-BUILDERS WORKS				
	MAIN SUMMARY		PAGE		AMOUNT (KSHS)
1	Substructures		C/4		
2	Reinforced Concrete Frame		C/5		
3	Walling		C/6		
5	Doors		C/7		
6	External Finishes		C/8		
7	Internal Finishes		C/9		
8	Roofing		C/10		
	TOTAL FOR 1NO. TYPE POWER HOUSE BLOCK				
	NO. OF BLOCKS				
	MULTIPLY BY 8 NO. OF BLOCKS	х 8			8
	TOTAL FOR POWER HOUSE TO GRAND SUMMARY				

GARBAGE RECEPTACLE

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GARBAGE RECEPTACLE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 1 - SUBSTRUCTURES (ALL PROVISIONAL)				
	<u>Site Clearance</u>				
A	Clear site of all grass, hedges, shrubs, bushes grub up roots, load and remove from site and dispose at designated local authority areas.	SM	112		
В	Excavate average 300mm deep to remove top vegetable soil, load, remove from site and dump in designated local authority dump site.	SM	112		
С	Excavate for Strip foundations depth not exceeding 1.50 metres starting from Reduced ground levels.	СМ	68		
D	Ditto to column bases	СМ	4		
D	Extra over all type of excavation for excavating in soft rock	СМ	7		
E	Ditto excavation in hard rock class I	СМ	0		
	Disposal of water				
F	Allow for keeping the whole of the excavation free from all spring and running water by pumping or any other such means as may be necessary	Item			
	Planking and strutting				
G	Allow for maintaining and upholding the sides of excavations and keeping excavations clear of all fallen materials, rubbish etc	Item			
	Carried to collection				
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Item	Description	Unit	QTY	Rate	Amount
	Disposal of excavated material				
A	Load,wheel and cart away surplus excavated material to a Local Authority designated dumping site or fill soil heaps as away from site instructed by the Project Engineer.	СМ	2		
В	Return, fill and ram selected excavated material around sides of foundations.	СМ	70		
	Fillings				
С	Make up levels using approved imported materials: compacted in layers not exceeding 300mm thick with a roller: to the satisfaction of the Structural Engineer.	СМ	0		
D	300mm thick hardcore bed: hand packed: compacted in layers not exceeding 150mm thick: to the satisfaction of the Structural Engineer	SM	112		
E	50 mm Stone dust/ Murrum blinding to surfaces of hardcore	SM	112		
F	Anti - termite to treatment Approved anti-termite treatment, with ten-year guarantee, sprayed to surfaces of hardcore strictly in accordance with manufacturer's instructions.	SM	112		
G	Damp-proof membrane 1000 gauge polythene or other equal and approved damp-proof membrane, laid over blinded hardcore (measured separately) with 300mm side and end laps (measured nett-allow for laps); 1 No. layer: bedded in and including cement and sand (1:3) mortar	SM	112		
	Concrete Blinding				
	Insitu concrete Class 15MPa: vibrated:				
Н	50 mm thick blinding under column bases	SM	14		
I	50 mm thick blinding under strip foundations	SM	45		
	In- situ vibrated reinforced concrete Class 25 MPa: in:				
J	Column bases	СМ	4		
K	Strip foundations	CM	9		
L	100mm thick surface bed	SM	112		
M	Columns	СМ	1		
	Carried to collection				

Item	Description	Unit	QTY	Rate	Amount
	Ribbed reinforcement steel bars to KS 573:2014: Grade 500 high tensile strengthincluding bends, hooks, tying wire and distance blocks; to S.E's detail (Provisional)				
Α	Assorted reinforcement	KGS	812		
	Mesh fabric reinforcement to KS/EAS 412;2 (2019) BRC A142;200 \times 200mm, weighing 2.22kg/m² (measured net - no allowance) for laps; in two layers - top & bottom; including bends, tying wire and spacer blocks)				
В	In ground floor slab	SM	112		
	Modular steel frame with steel plates covering formwork and/or marine board formwork: to:				
С	Sides of column bases	SM	17		
D	Sides of Strip foundations	SM	30		
E	Vertical sides to columns	SM	17		
F	Edge of slab not exceeding 150mm girth	LM	43		
	Foundation Walling				
	Natural quarry stone walling with a minimum of 7.0 N/mm2 bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25×3 mm thick hoop iron strips at every alternate course as described in;				
G	200mm thick walls in foundations	SM	98		
	<u>Pavings</u>				
Н	Supply and lay $600 \times 600 \times 50 \text{mm}$ reinforced concrete precast paving slabs around the building including laying, spreading and compacting 100mm thick approved sand bed blinding, on and including 150mm thick compacted hardcore to Engineer's approval.	SM	45		
	<u>Plinth</u>				
	25mm Thick cement and sand (1:4) rendering on concrete or masonry; wood float finished; to				
J	Plinths externally	SM	30		
	Two coats black bitumastic paint on:				
K	Rendered surfaces	SM	30		
	Carried to collection				
	COLLECTION				
	Total brought forward from page no:				
	Total brought forward from page no:				
	Total brought forward from page no:				
	ELEMENT NO. 1 Carried to				
	SUBSTRUCTURES Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GARBAGE RECEPTACLE				
	BILL NO.1-BUILDERS WORKS ELEMENT No 2 - R.C FRAME				
	In- situ vibrated reinforced concrete Class 25 MPa: in:				
Α	Columns	СМ	1		
В	Beams	СМ	5		
	Ribbed reinforcement steel bars to KS 573:2014: Grade 500 high tensile strengthincluding bends, hooks, tying wire and distance blocks; to S.E's detail (Provisional)				
С	Assorted reinforcement	Kg	783		
	Modular steel frame with steel plates covering formwork and/or marine board formwork: to				
D	Sides of columns	SM	27		
E	Sides and soffites of beams	SM	45		
	ELEMENT NO. 2 Carried to				
	R.C FRAME Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GARBAGE RECEPTACLE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT No 3-WALLING				
	WALLING				
	External Walling				
	Machine cut quarry stone walling with a minimum of 7.0 N/mm2 average compressive strength; bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25 x 3 mm thick hoop iron strips at every alternate course as described in;				
Α	200mm thick walling Externally	SM	97		
	Internal Walling				
	Machine cut quarry stone walling with a minimum of 7.0 N/mm2 average compressive strength; bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25×3 mm thick hoop iron strips at every alternate course as described in;				
В	200mm thick walling Internally	SM	70		
С	Approved hessian based damp proof course to 200mm thick walling in cement/sand mortar	LM	75		
		İ			
	ELEMENT NO. 3 Carried to				
	WALLING Main summary			1	

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GARBAGE RECEPTACLE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 4-ROOF				
A	IT5 roofing sheets on steel trusses (m/s) with approved galvanised hook bolts, nuts and washers including side and end laps fixed to and including 100x50x4mm rafters spaced at 900mm c/c with 50x50x3mm SHS purlins at 600x600mm c/c with and including all welded and bolted connections: delivery to site and erection with and including one shop coat red oxide, zinc chromate or similar approved primer: complete to manufacturer's specifications	SM	101		
	ELEMENT NO. 4 Carried to the				
	ROOF Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GARBAGE RECEPTACLE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 5-DOORS				
	External Doors				
	Steel Casement Door				
	Heavy gauge double steel louvered door, all primed with red oxide and spray painted 2 coats eggshell gloss paint; complete with hinges, stays, fasteners and necessary seremetals assembled and fixed to opening including cutting and pinning lugs to concrete or block work sorroung and bedding frame in cement and sand mortar (1:3).				
Α	Double leaf door size 1600 x 2100mm high	NO	2		
В	Ditto overall Size 1200 x 2400mm high	NO	4		
	ELEMENT NO. 5 Carried to				
	DOORS Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GARBAGE RECEPTACLE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 6 - EXTERNAL FINISHES				
	EXTERNAL WALL FINISHES				
	External Render				
	Cement and sand (1:3) render:wood floated: on concrete or blockwork: to				
A	15mm thick to beams, Columns, Slab Moulds and walling externally	SM	23		
В	Extra over horizontal and vertical pointing in 10mm thick rod in cement and sand mix (1:3) mortar including one coat Bituminous paint	LM	97		
	External Painting				
	Prepare and apply one coat Alkali Resistant primer followed by two coats of silicon exterior Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the architect to				
С	Concrete/masonry surfaces externally-Beam, Column and Slab Moulds	SM	23		
	ELEMENT NO. 6 Carried to				
	EXTERNAL FINISHES Main summary				

PROPOSED GARBAGE RECEPTACLE BILL NO.1-BUILDERS WORKS ELEMENT NO 7 - INTERNAL FINISHES Internal Wall Finishes Cement and sand i1-3h backings 3.2mm Thick coloured cement sand screed mix 1:3 finished to approval J.5mm (minimum) two coast cement, sand (1:3) plosser complete with wive grace out crack mechanism at the intersection of massing working and concrete bours as described to: B. Concrete/masonry surfaces Floor Finishes Cement and sand (1:3) screeds, backings, beds etc 3.2mm Thick coloured cement sand screed mix 1:3 finished with red oxide to approval 98	Item	Description	Unit	QTY	Rate	Amount
ELEMENT NO 7 - INTERNAL FINISHES Internal Wall Finishes Cement and sand (1:4) backings A 32mm Thick coloured cement sand screed mix 1:3 finished to approval 15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to: B Concrete/masonry surfaces Floor Finishes Cement and sand (1:3) screeds, backings, beds etc		PROPOSED GARBAGE RECEPTACLE				
Internal Wall Finishes Cement and sand (1:4) backings 32mm Thick coloured cement sand screed mix 1:3 finished to approval 15mm (minimum) two coat cement, sand (1:3) plaster complete with wire quaze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to: B Concrete/masonry surfaces Floor Finishes Cement and sand (1:3) screeds, backings, beds etc 32mm Thick coloured cement sand screed mix 1:3 finished with red oxide to		BILL NO.1-BUILDERS WORKS				
A 32mm Thick coloured cement sand screed mix 1:3 finished to approval 15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to: B Concrete/masonry surfaces Cement and sand (1:3) screeds, backings, beds etc 32mm Thick coloured cement sand screed mix 1:3 finished with red oxide to		ELEMENT NO 7 - INTERNAL FINISHES				
A 32mm Thick coloured cement sand screed mix 1:3 finished to approval 15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to: B Concrete/masonry surfaces Floor Finishes Cement and sand (1:3) screeds, backings, beds etc 32mm Thick coloured cement sand screed mix 1:3 finished with red oxide to		Internal Wall Finishes				
A approval 15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:- B Concrete/masonry surfaces SM 237		Cement and sand (1:4) backings				
gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:- B Concrete/masonry surfaces SM 237 Floor Finishes Cement and sand (1:3) screeds, backings, beds etc 32mm Thick coloured cement sand screed mix 1:3 finished with red oxide to	A		SM	98		
Floor Finishes Cement and sand (1:3) screeds, backings, beds etc 32mm Thick coloured cement sand screed mix 1:3 finished with red oxide to		gauze anti-crack mechanism at the intersection of masonry walling and				
Cement and sand (1:3) screeds, backings, beds etc 32mm Thick coloured cement sand screed mix 1:3 finished with red oxide to	В	Concrete/masonry surfaces	SM	237		
32mm Thick coloured cement sand screed mix 1:3 finished with red oxide to		Floor Finishes				
		Cement and sand (1:3) screeds, backings, beds etc				
	С		SM	98		
ELEMENT NO. 7 Carried to		ELEMENT NO 7 Corried to				
INTERNAL FINISHES Main summary						

Item	Description	Unit	QTY	Rate	Amount
	BILL NO.1-BUILDERS WORKS				
	MAIN SUMMARY				
1	Substructures				
2	Reinforced Concrete Frame				
	Well's a				
3	Walling				
4	Roof				
5	Doors				
6	External Finishes				
7	Internal Finishes				
'	Internal Lindres				
	TOTAL FOR 1NO. GARBAGE RECEPTACLES				
	NO. OF BLOCKS				
	no. or brocks				
	MULTIPLY BY 12 NO OF RECEPTACLES	X 12			12
	TOTAL FOR GARBAGE RECEPTACLES CARRIED TO GRAND SUMMARY				

GUARD HOUSE	

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GUARD HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 1 - SUBSTRUCTURES (ALL PROVISIONAL)				
	Site Clearance				
A	Clear site of all grass, hedges, shrubs, bushes grub up roots, load and remove from site and dispose at designated local authority areas.	SM	15		
В	Excavate average 300mm deep to remove top vegetable soil, load, remove from site and dump in designated local authority dump site.	SM	15		
С	Excavate for Strip foundations depth not exceeding 1.50 metres starting from Reduced ground levels.	СМ	10		
D	Ditto to column bases	СМ	2		
E	Extra over all type of excavation for excavating in soft rock	СМ	1		
F	Ditto excavation in hard rock class I	СМ	1		
	Disposal of water				
G	Allow for keeping the whole of the excavation free from all spring and running water by pumping or any other such means as may be necessary	Item			
	Planking and strutting				
Н	Allow for maintaining and upholding the sides of excavations and keeping excavations clear of all fallen materials, rubbish etc	Item			
	Complete to a series of				
	Carried to collection			Ì	

Item	Description	Unit	QTY	Rate	Amount
	Disposal of excavated material				
A	Load,wheel and cart away surplus excavated material to a Local Authority designated dumping site or fill soil heaps as away from site instructed by the Project Engineer.	СМ	1.00		
В	Return, fill and ram selected excavated material around sides of foundations.	CM	12		
	Fillings				
С	Make up levels using approved imported materials: compacted in layers not exceeding 300mm thick with a roller: to the satisfaction of the Structural Engineer.	СМ	0		
D	300mm thick hardcore bed: hand packed: compacted in layers not exceeding 150mm thick: to the satisfaction of the Structural Engineer	SM	12		
E	50 mm Stone dust/ Murrum blinding to surfaces of hardcore	SM	15		
F	Anti - termite to treatment Approved anti-termite treatment, with ten-year guarantee, sprayed to surfaces of hardcore strictly in accordance with manufacturer's instructions.	SM	15		
G	Damp-proof membrane 1000 gauge polythene or other equal and approved damp-proof membrane, laid over blinded hardcore (measured separately) with 300mm side and end laps (measured nett-allow for laps); 1 No. layer: bedded in and including cement and sand (1:3) mortar	SM	15		
	Concrete Blinding				
	Insitu concrete Class 15MPa: vibrated:				
Н	50 mm thick blinding under column bases	SM	6		
I	50 mm thick blinding under strip foundations	SM	8		
	In- situ vibrated reinforced concrete Class 25 MPa: in:				
J	Column bases	СМ	2		
K	Strip foundations	СМ	2		
L	100mm thick surface bed	SM	15		
М	Steps In- situ vibrated reinforced concrete Class 25 MPa: in:	CM	0		
N	Columns	СМ	1		
	Carried to collection				

Item	Description	Unit	QTY	Rate	Amount
	Ribbed reinforcement steel bars to KS 573:2014: Grade 500 high tensile strengthincluding bends, hooks, tying wire and distance blocks; to S.E's detail (Provisional)				
A	Assorted reinforcement	KGS	264		
	Mesh fabric reinforcement to KS/EAS 412;2 (2019) BRC A142;200 x 200mm, weighing 2.22kg/m² (measured net - no allowance) for laps; in two layers - top & bottom; including bends, tying wire and spacer blocks)				
В	In ground floor slab	SM	15		
	Modular steel frame with steel plates covering formwork and/or marine board formwork: to:				
С	Sides of column bases	SM	7		
D	Vertical sides to columns	SM	8		
E	Edge of slab not exceeding 150mm girth	LM	15		
F	Edges of risers 75 - 150mm high	LM	14		
	Foundation Walling				
	Natural quarry stone walling with a minimum of 7.0 N/mm2 bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25×3 mm thick hoop iron strips at every alternate course as described in;				
G	200mm thick walls in foundations	SM	18		
	<u>Pavings</u>				
Н	Supply and lay $600 \times 600 \times 50$ mm reinforced concrete precast paving slabs around the building including laying, spreading and compacting 100mm thick approved sand bed blinding, on and including 150mm thick compacted hardcore to Engineer's approval.	SM	7		
	<u>Plinth</u>				
	25mm Thick cement and sand (1:4) rendering on concrete or masonry; wood float finished; to				
J	Plinths externally	SM	5		
	Two coats black bitumastic paint on:				
K	Rendered surfaces	SM	5		
	Carried to collection				

Item	Description	Unit	QTY	Rate	Amount
	COLLECTION				
	Total brought forward from page no:				
	Total brought forward from page no.				
	Total brought forward from page no:				
	Total brought forward from page no:				
	ELEMENT NO. 1 Carried to				
	SUBSTRUCTURES Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GUARD HOUSE				
	BILL NO.1-BUILDERS WORKS ELEMENT No 2 - R.C FRAME				
	In- situ vibrated reinforced concrete Class 25 MPa: in:				
A	Columns	CM	2		
В	Beams	CM	2		
С	150mm thick Roof Slab	SM	15		
	Ribbed reinforcement steel bars to KS 573:2014: Grade 500 high tensile strengthincluding bends, hooks, tying wire and distance blocks; to S.E's detail (Provisional)				
D	Assorted reinforcement	Kg	759		
	Modular steel frame with steel plates covering formwork and/or marine board formwork: to				
E	Sides of columns	SM	27		
F	Sides and soffites of beams	SM	16		
G	Soffits of suspended slabs	SM	15		
Н	Edges of slab over 150mm but not exceeding 225mm girth	LM	15		
	ELEMENT NO. 2 Carried to R.C FRAME Main summary				
	main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GUARD HOUSE				
	1.101.0022 doint 110002				
	BILL NO.1-BUILDERS WORKS				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT No 3-WALLING				
	WALLING				
	WALLING				
	External Walling				
	Machine cut quarry stone walling with a minimum of 7.0 N/mm2 average				
	compressive strength; bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25 x 3 mm thick hoop iron strips at every				
	alternate course as described in:				
A	200mm thick walling Externally	SM	24		
В	200mm thick parapet walling	SM	6		
	S P P P P P P P P P P P P P P P P P P P				
	Internal Walling				
	Machine cut quarry stone walling with a minimum of 7.0 N/mm2 average				
	compressive strength; bedded and jointed in cement and sand (1:4) mortar, reinforced with and including 25 x 3 mm thick hoop iron strips at every				
	alternate course as described in:				
С	200mm thick walling Internally	SM	5		
D	150mm thick walling Internally	SM	0		
	Toomin unon naming internally	SW			
E	Approved hessian based damp proof course to 200mm thick walling in	LM	11		
E	cement/sand mortar	LIVI	1,1		
	A				
F	Approved hessian based damp proof course to 150mm thick walling in cement/sand mortar	LM	0		
	Precast Concrete Breeze Ventilation Blocks				
	150 150 11 50 111 0 10 10 10 10				
G	150 x 150mm wide x 50mm thick Pre Cast Concrete flower 3D breeze ventilation blocks bedded and jointed in cement and sand (1:4) mortar	CM	0		
G	Total matter stocks section and jointed in comone and said (1.17) mortal	SM	0		
	COPING				
	300 x 100mm insitu reinforced concrete class 20Mpa coping, throated				
Н	and weathered and jointing to columns with cement sand 1:4 mortar	LM	11		
	Lintols				
	200mm x 200mm Deep lintols in reinforced concrete class 20MPa with				
I	and including 4No T10 and T8 stirups at 200mm centres; complete with	LM	2		
	formwork				
	ELEMENT NO. 3 Carried to				
	<u>WALLING</u> Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GUARD HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 4-WINDOWS				
	MILD STEEL WINDOWS				
	Supply, fabricate and fix the following purpose made small pane mild steel casement windows to be fabricated from approved mild steel sections (atleast 14g 2mm thick) comprising of frame and casement incorporating permanent hooded high level ventilation panels infilled with mosquito gauze: window supplied complete with and including 12mm solid square burglar proofing bars fixed at 200mm centres both ways and metal fixing lugs including building into wall and making good, and all necessary iron mongery viz hinges, fasteners, and hasp including shop priming window with red oxide primer				
	A prime cost sum of Kshs 6,000 per Sqm has been allowed for fabrication of the above specified Steel casement Windows by AHP juakali artisans as approved by the Project Manager/Architect. The contractor's unit rate shall include the cost of transport, storage, fixing and all associated accesories in addition to the PC Rate.				
A	Window, overall size 1900 X 1500mm high to Architects Details	NO	1		
В	Ditto Size 650 x 1500mm high (bedroom)	NO	1		
С	Ditto Size 1000 x 1350mm high (Kitchen)	NO	0		
D	Ditto Size 600 x 900mm high (WC/SH)	NO	1		
	Glazing				
E	4mm Thick clear sheet glass panes over 0.1 but not exceeding 0.5 square meters; fixing with premium putty	SM	4		
F	Ditto; obscure	SM	1		
	Painting and Decorations				
	On Metal work				
G	Prepare and apply aerosol spray painting in one finishing coats of approved first grade to: - General window and grille surfaces; over 300mm girth internal	SM	4		
	Carried to Collection				

Item	Description	Unit	QTY	Rate	Amount
	Precast concrete window cill finishing fair on all exposed surfaces				
	and hoisting and placing in position, bedding, jointing and pointing				
	in pigmented cement and sand (1:3) mortar				
A	$150 \times 25 mm$ thick Precast concrete window sill	LM	3		
	Carried to collection				
	COLLECTION				
	Total brought forward from page no:				
	Total brought forward from page no:				
	ELEMENT NO. 4 Carried to the				
	<u>WINDOWS</u> Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GUARD HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 5-DOORS				
	External Doors				
	Flush timber doors				
	50 mm thick Semi Solid cored flush doors with plywood facing to receive painting (m.s) all to Architects details, specifications and approval				
	A prime cost sum at the rate indicated below for fabrication of the above specified Timber Flush door leaves by AHP juakali artisans as approved by the Project Manager/Architect.				
	The contractor's unit rate shall include the cost of transport, storage, fixing and all associated accesories in addition to the PC Rate.				
A	Door size 900mm x 2400mm High comprising of 1 No Opennable leaf size 800 x 2100mm high including fixed fanlight size 900 x 300mm high in 4mm clear glass (measured separetely) (PC Rate Kshs 4,000)	NO	2		
В	Ditto 800 x 2100mm high comprising of 1No. Opennable leaf size 700 x 2100mm high (PC Rate Kshs 3,500)	NO	0		
	4mm Thick clear sheet glass fixing with matching timber glazing beads to timber frames				
С	In panes exceeding 0.1 sqm but not exceeding 0.5 square metres.	SM	1		
	<u>Frames and frame finishes in cypress Timber</u>				
D	25 x 25mm quadrant (PC Rate Kshs 75)	LM	5		
E	25 x 50mm architrave with two labours, plugged (PC Rate Kshs 150)	LM	8		
F	150mm x 50mm transome with three labours; chamfered edges; plugged (PC Rate Kshs 800)	LM	8		
G	150mm x 50mm frame with three labours; chamfered edges; plugged (PC Rate Kshs 800)	LM	8		
	Carried to collection				

Existing and decorating Priming back of frome with an aluminium or equivalent and approved used primer A Surfaces not exceeding 100mm girth B Surfaces over 100mm but not exceeding 200mm girth Propare Kiot, prime, stops and apply one undercoat and two finishing coats first medic inher number in the used surfaces as per the manufacturers. C General simber exifaces B Surfaces over 200mm but not exceeding 300mm girth LM 15 Architraves: not exceeding 100 mm girth E Architraves: not exceeding 100 mm girth LM 5 F Quadrant beading; not exceeding 100 mm girth Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Fluit Hinges F Stainless steel 3 Lever Mortice Door Lock with handle furniture set; keyhole secutcheons, cylinder and latch) Ditto: but 2 Lever Door Lock with handle Door fixing cramps K Architect detail Block sign with block type, name and number lin exterior quality paint as per Architect detail Block sign with block type, name and number lin exterior quality paint as per Architect detail Carried to Collection COLLECTION Total brought forward from page no: ELEMENT NO, S Carried to	Item	Description	Unit	QTY	Rate	Amount
Printing back of frame usth an abuninhum or equivalent and approved wood utiting: A Surfaces not exceeding 100mm girth B Surfaces over 100mm but not exceeding 200mm girth Prepare Knot. prime. stop and apply one undercoat and two finishing coats first grade tubber quality paint to wood surfaces as per the manufacturer's printed instructions C General limber surfaces SM 9 Surfaces over 200mm but not exceeding 300mm girth LM 15 Architraves: not exceeding 100 mm girth I.M 8 F Quadrant beading: not exceeding 100 mm girth Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges H Stainless steel 3 Lever Mortice Door Lock with handle furniture set; (keyhole escutcheons, cylinder and latch) Differ. but 2 Lever Door Lock with handle J Door fixing cramps K Architect detail NO 2 200x 75 x 3mm perspex door signage with door numbers as per Architect detail L as per Architect detail NO 0 Carried to Collection Collection Collection Total brought forward from page no: Total brought forward from page no:		Painting and decorating				
A Surfaces not exceeding 100mm girth B Surfaces over 100mm but not exceeding 200mm girth Prepare Knot. prime, stop and apply one undercoat and two finishing coats first areade turber quality point to wood surfaces as per the manufacturer's private instructions C General timber aurfaces SM 9 Surfaces over 200mm but not exceeding 300mm girth LM 15 E Architraves: not exceeding 100 mm girth LM 5 Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges FRS 3 Stainless steel 3 Lever Mortice Door Lock with handle furniture set; keybole escutcheons, cylinder and latch) Ditto: but 2 Lever Door Lock with handle NO 0 Ditto: but 2 Lever Door Lock with handle J Door fixing cramps K Architect detail NO 0 Carried to Collection Collection Collection Collection Total brought forward from page no:		2 and the type of the type				
B Surfaces over 100mm but not exceeding 200mm girth Prepare Root, prime, stop and apply one undercost and two finishina costs: first grade timber quality paint to wood surfaces as per the manufacturer's printed instructions C General timber surfaces D Surfaces over 200mm but not exceeding 300mm girth E Architraves: not exceeding 100 mm girth F Quadrant beading: not exceeding 100 mm girth Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges FRS 3 Stainless steel 3 Lever Mortice Door Lock with handle furniture set: keyhole escutcheons, cylinder and latch) I Ditto: bur 2 Lever Door Lock with handle J Door fixing cramps NO 0 L 200 x 75 x 3mm perspex door signage with door numbers as per Architect detail L Block sign with block type, name and number lin exterior quality paint as per Architect detail NO 0 Carried to Collection COLLECTION Total brought forward from page no:						
Prepare Knot, prime, stop and apply one undercoat and two finishing coats first areade timber quality paint to wood surfaces as per the manufacturer's printed instructions C General timber surfaces D Surfaces over 200mm but not exceeding 300mm girth E Architraves: not exceeding 100 mm girth E Quadrant beading: not exceeding 100 mm girth Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges FRS 3 Stainless steel 3 Lever Mortice Door Lock with handle furniture set; NO Ditto: but 2 Lever Door Lock with handle J Door fixing cramps K 200 x 75 x 3mm perspex door signage with door numbers as per Architect detail L Block sign with block type, name and number lin exterior quality paint as per Architect detail Carried to Collection COLLECTION Total brought forward from page no:	A	Surfaces not exceeding 100mm girth	LM	13		
First crade intime auditu paint to wood surfaces as per the manufacturer's printed instructions	В	Surfaces over 100mm but not exceeding 200mm girth	LM	15		
C General timber surfaces D Surfaces over 200mm but not exceeding 300mm girth E Architraves: not exceeding 100 mm girth LM 8 F Quadrant beading: not exceeding 100 mm girth LM 5 Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges PRS 3 Stainless steel 3 Lever Mortice Door Lock with handle furniture set; keyhole escutcheons, cylinder and latch) Ditto: but 2 Lever Door Lock with handle Door fixing cramps NO 0 K Architect detail NO 2 Block sign with block type, name and number lin exterior quality paint as per Architect detail Carried to Collection COLLECTION Total brought forward from page no: Total brought forward from page no:						
D Surfaces over 200mm but not exceeding 300mm girth E Architraves: not exceeding 100 mm girth F Quadrant beading: not exceeding 100 mm girth Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges H Stainless steel 3 Lever Mortice Door Lock with handle furniture set;(keyhole escutcheons, cylinder and latch) Ditto: but 2 Lever Door Lock with handle Door fixing cramps NO 0 E 200 x 75 x 3mm perspex door signage with door numbers as per Architect detail Ditto: but 2 Lever Door Lock with handle L Block sign with block type, name and number lin exterior quality paint as per Architect detail NO 0 Carried to Collection COLLECTION Total brought forward from page no: Total brought forward from page no:	_		CM	_		
E Architraves: not exceeding 100 mm girth F Quadrant beading: not exceeding 100 mm girth Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges PRS 3 Stainless steel 3 Lever Mortice Door Lock with handle furniture set; (keyhole escutcheons, cylinder and latch) Ditto: but 2 Lever Door Lock with handle NO 2 J Door fixing cramps NO 0 EXAMPLE Architect detail NO 2 Block sign with block type, name and number lin exterior quality paint as per Architect detail Carried to Collection COLLECTION Total brought forward from page no:	С	General timber surfaces	SIM	9		
F Quadrant beading: not exceeding 100 mm girth Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges PRS 3 Stainless steel 3 Lever Mortice Door Lock with handle furniture set;(keyhole escutcheons, cylinder and latch) NO 2 Ditto: but 2 Lever Door Lock with handle NO 2 Door fixing cramps K Architect detail NO 2 Block sign with block type, name and number lin exterior quality paint as per Architect detail Carried to Collection COLLECTION Total brought forward from page no:	D	Surfaces over 200mm but not exceeding 300mm girth	LM	15		
Ironmongery Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges H Stainless steel 3 Lever Mortice Door Lock with handle furniture set; keyhole escutcheons, cylinder and latch) Ditto: but 2 Lever Door Lock with handle NO 2 J Door fixing cramps NO 0 K Architect detail L Block sign with block type, name and number lin exterior quality paint as per Architect detail Carried to Collection COLLECTION Total brought forward from page no: Total brought forward from page no:	Е	Architraves: not exceeding 100 mm girth	LM	8		
Supply and fix the following ironmongery to timber complete with matching screws and keys to the approval of the Architect G 100mm pressed steel Butt Hinges PRS 3 H Stainless steel 3 Lever Mortice Door Lock with handle furniture set;{ keyhole escutcheons, cylinder and latch } NO 0 Ditto: but 2 Lever Door Lock with handle NO 2 J Door fixing cramps NO 0 K 200 x 75 x 3mm perspex door signage with door numbers as per Architect detail NO 2 Block sign with block type, name and number lin exterior quality paint as per Architect detail NO 0 Carried to Collection COLLECTION Total brought forward from page no: Total brought forward from page no:	F	Quadrant beading : not exceeding 100 mm girth	LM	5		
matching screws and keys to the approval of the Architect G		Ironmongery				
H Stainless steel 3 Lever Mortice Door Lock with handle furniture set;(keyhole escutcheons, cylinder and latch) Ditto: but 2 Lever Door Lock with handle NO Door fixing cramps NO Converted to Collection Collection Collection Total brought forward from page no: Total brought forward from page no:						
H keyhole escutcheons, cylinder and latch) I Ditto: but 2 Lever Door Lock with handle J Door fixing cramps NO 2 X 200 x 75 x 3mm perspex door signage with door numbers as per Architect detail NO 2 Block sign with block type, name and number lin exterior quality paint as per Architect detail NO Carried to Collection Collection Collection Total brought forward from page no: Total brought forward from page no:	G	100mm pressed steel Butt Hinges	PRS	3		
J Door fixing cramps NO 0 EX 200 x 75 x 3mm perspex door signage with door numbers as per Architect detail NO 2 Block sign with block type, name and number lin exterior quality paint as per Architect detail Carried to Collection COLLECTION Total brought forward from page no: Total brought forward from page no:	Н		NO	0		
K 200 x 75 x 3mm perspex door signage with door numbers as per Architect detail NO 2 Block sign with block type, name and number lin exterior quality paint as per Architect detail NO 0 Carried to Collection COLLECTION Total brought forward from page no: Total brought forward from page no:	I	Ditto: but 2 Lever Door Lock with handle	NO	2		
R Architect detail NO Block sign with block type, name and number lin exterior quality paint as per Architect detail Carried to Collection COLLECTION Total brought forward from page no: Total brought forward from page no:	J	Door fixing cramps	NO	0		
Carried to Collection COLLECTION Total brought forward from page no: Total brought forward from page no:	K		NO	2		
COLLECTION Total brought forward from page no: Total brought forward from page no:	L		NO	0		
COLLECTION Total brought forward from page no: Total brought forward from page no:						
COLLECTION Total brought forward from page no: Total brought forward from page no:						
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		Total brought forward from page no:				
ELEMENT NO. 5 Carried to		Total brought forward from page no:				
ELEMENT NO. 5 Carried to						
ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ		ELEMENT NO. 5 Carried to				
DOORS Main summary						

Item	Description	Unit	QТY	Rate	Amount
	PROPOSED GUARD HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 6 - EXTERNAL FINISHES				
	EXTERNAL WALL FINISHES				
	External Render				
	Cement and sand (1:3) render:wood floated: on concrete or blockwork: to				
A	15mm thick to beams, Columns, Slab Moulds and walling externally	SM	7		
В	Extra over horizontal and vertical pointing in 10mm thick rod in cement and sand mix (1:3) mortar including one coat Bituminous paint	LM	29		
	External Painting				
	Prepare and apply one coat Alkali Resistant primer followed by two finishing coats of silicon exterior Emulsion paint in accordance with the				
	manufacturers written instructions and to the satisfaction of the architect to				
С	Concrete/masonry surfaces externally-Beam, Column and Slab Moulds	SM	7		
	ROOF FINISHES Cement and sand (1:4) screeded beds: on concrete: complete with coloured pigmentation additives and hardener to:				
D	50mm average waterproofed lightweight screed laid to falls and crossfalls to roof slabs -upper roof including gutter bases	SM	12		
	Prepare and apply to vertical/horizontal surfaces 4mm thick APP/EPDM water proofing or other equal and approved membrane with surface finish weighing 4kg/sm; laid on primer with torch-on process; by an approved				
	specialist all in accordance with the manufacturers instructions including provision of a written ten (10) year anti leak guarantee.				
E	4mm thick APP membrane applied to roof slabs	SM	12		
F	Ditto to skirting 200mm high	LM	11		
G	Dress membrane around 100mm rainwater outlet	No.	2		
	The Following Flat roof concrete tiles fixed with approved adhesive, laid and jointed with waterproofing bituminous compound				
Н	20mm thick interlocking Concrete tiles of size 225 x 225mm	SM	12		
	ELEMENT NO. 6 Carried to				
	EXTERNAL FINISHES Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GUARD HOUSE				
	BILL NO.1-BUILDERS WORKS				
	ELEMENT NO 7 - INTERNAL FINISHES				
	Internal Wall Finishes				
	Cement and sand (1:3) backings				
Α	15mm thick to receive ceramic Wall tiles	SM	12		
В	To receive ceramic wall tiles (m.s.)	SM	24		
	Ceramic wall tiles				
	Allow a Prime Cost supply rate of Ksh. 1000 per SM (Rate to include cost of purchase, transport, offload, storage, fixing including all necessary adhesives and accessories				
С	Supply and Fix approved ceramic wall tiles on prepared backings(m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval Wall Surfaces	SM	12		
	Ceramic wall tiles				
	Allow a Prime Cost supply rate of Ksh. 1000 per SM (Rate to include cost of purchase, transport, offload, storage, fixing including all necessary adhesives and accessories				
D	Supply and Fix approved ceramic wall tiles on prepared backings(m.s) with proprietary adhesive; jointed and pointed in matching coloured proprietary grouting: including pvc spacers and expansion joint as necessary: all to Architect's approval Wall Surfaces	SM	24		
	15mm (minimum) two coat cement, sand (1:3) plaster complete with wire gauze anti-crack mechanism at the intersection of masonry walling and concrete beams as described to:-				
E	Concrete/masonry surfaces	SM	8		
	Painting and Decoration				
	Prepare, Skim and apply Emulsion or universal undercoat followed by two finishing coats of soft satin Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the architect to				
F	Plastered concrete/masonry surfaces internally	SM	8		
	Carried to Collection				

Item	Description	Unit	QTY	Rate	Amount
	Ceiling finishes				
	15mm (minimum) two coat cement, sand (1:3) plaster complete with wire				
	gauze anti-crack mechanism at the intersection of masonry walling and				
	concrete beams as described to:-				
A	Soffits of Concrete surfaces	SM	12		
	Painting and Decoration				
	Prepare, Skim and apply Emulsion or universal undercoat followed by two finishing coats of soft satin Emulsion paint in accordance with the manufacturers written instructions and to the satisfaction of the architect to				
В	Plastered ceilings	SM	12		
	Carried to Collection			<u> </u>	

m	Description	Unit	QTY	Rate	Amo
	COLLECTION				
7	Total brought forward from page no:				
ď	total brought forward from page no.				
1	Total brought forward from page no:				
	ELEMENT NO. 7 Carried to INTERNAL FINISHES Main summary				

Item	Description	Unit	QTY	Rate	Amount
	PROPOSED GUARD HOUSE				
	BILL NO.1-BUILDERS WORKS				
	MAIN SUMMARY				
1	Substructures				
2	Reinforced Concrete Frame				
	Reinforced Concrete Frame				
3	Walling				
4	Windows				
5	Doors				
6	External Finishes				
7	Internal Finishes				
'	Internal Finishes				
	TOTAL FOR 1NO. GUARD HOUSE				
	TOTAL FOR THE GUARD HOUSE				
	NO. OF BLOCKS				
	NO. OF BLOCKS				
	MULTIPLY BY 4 NO OF GUARD HOUSE	X 4			4
	TOTAL POR GUARR MOVER CARRYES TO STATE STATE STATE				
	TOTAL FOR GUARD HOUSE CARRIED TO GRAND SUMMARY				

UNDERGROUND WATER TANK	

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	EXTERNAL WORKS				
	UNDERGROUND WATER TANK				
	SUBSTRUCTURE (ALL PROVISIONAL)				
	Excavations				
Α	Excavate over site to remove top soil average 200mm deep and cart away.	m²	280		
В	Excavate for pits commencing at reduced excavation level and not exceeding 1.50m deep.	m³	420		
С	Excavate for pits commencing at reduced excavation level and not exceeding 1.50-3m deep	m³	420		
D	Excavate for pits commencing at reduced excavation level and not exceeding 3-4.5m deep	m³	322		
Ε	Extra excavation for excavating in all types of rock and cart away.	m³	349		
F	Remove surplus excavated material from site.	m³	1,162		
	Disposal				
G	Allow for keeping the whole of the excavation free from all spring and running water by pumping or any other such means as may be necessary	Item	1		
Н	Allow for planking and strutting to sides of already excavated surfaces and new excavated surfaces to keep excavations free from all fallen materials.	Item	1		
	<u>Fillings</u>				
J	Approved 300mm wide granular filling layers not exceeding 150mm thick	m²	280		
	50mm Plain Concrete Blinding (Class 15) to:				
K	Base slab	m²	280		
	Carried to Collection				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	REINFORCED CONCRETE FRAME				
	<u>Vibrated reinforced concrete (class 30); Fiber mesh to be dosed in the concreteat at minimum dosage of 0.9kg/m³</u>				
А	Beams	m³	10		
В	250mm RC wall	m²	42		
С	300mm RC wall	m²	207		
D	300mm bottom slab	m²	280		
Е	200mm top slab	m²	280		
F	Extra over for boxing to form opening size 600 x 450mm through 200mm thick reinforced concrete slab; rebated edges	No	4		
G	Sump	No	4		
	Deformed high yield steel ribbed bars reinforcement as before described (all provisional).				
Н	Assorted reinforcement	kg	29,383		
	Sawn formwork to:-				
J	Sides of beams	m²	64		
К	RC wall	m²	497		
L	Soffits of suspended slab	m²	280		
М	Edge of floor slab 150 - 225mm high.	m	68		
N	Edge of floor slab 225 - 300mm high.	m	68		
	Water Bar				
Р	250mm wide PVC water bar	m	81		
	Carried to Collection				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>FINISHES</u>				
	WALL FINISHES				
	15mm cement and sand rendering on concrete surfaces finished with a wood float to:-				
Α	12mm Two coat external lime plaster on walls finished smooth with a steel trowel.	m²	328		
Α	12mm Two coat external lime plaster on ceilings finished smooth with a steel trowel.	m²	280		
Α	25mm Screed to internal tank floors finished smooth with a steel trowel.	m²	280		
Α	25mm Screed to suspended slab - externally finished smooth with a steel trowel.	m²	280		
	Waterproofing				
	25mm thick 2 coats lime waterproofed plaster in "penetron Plus" as described;				
В	300mm thick base slab and top slab	m²	560		
С	Ditto to walls	m²	328		
	Plastic manhole				
Е	Heavy duty plastic manhole cover and frame size 600x450mm wide with cover set in frame with grease	No	4		
F	Supply and fix approved 450mm, 10mm dia solid rungs wide stainless steel step ladder at 300mm centres fixed with SS bolts and nuts to structural details	No	12		
	Carried to Collection				
	UNDERGROUND WATER TANK				
	COLLECTION				
	Total brought forward from Page No.				
	TOTAL FOR 1NO. UNDERGROUND WATER TANK				
	NO. OF BLOCKS				
	MULTIPLY BY 1 NO OF UNDERGROUND WATER TANK	X 1			1
	Carried Forward to Summary				

MECHANICAL INSTALLATION WORKS

KASARANI SOCIAL HOUSING SUMMARY PAGE - LOT 4-14 BLOCKS

ITEM	DESCRIPTION	Unit	Qty	RATE (KSHS)	AMOUNT (KSHS)
1.0	SUMMARY FOR MECHANICAL SERVICES FOR SOCIAL HOUSING BLOCK	No	14		
2.0	PC SUMS FOR EXTERNAL RETICULATION	No	1		
3.0	PC SUMS FOR PUMPS	No	1		
4.0	PC SUMS FOR WATER TANKS	No	1		
5.0	PC SUMS FOR GUARD HOUSE	No	1		
6.0	PC SUMS FOR GABBAGE RECEPTACLE	No	3		
	TOTALS FOR MECHANICAL INSTALLATION SERVICES FOR PROPOSED KASARANI SOCIAL HOUSING PROJECT (VAT INCL) - LOT 4				

7.0 OMMISION SUM

ITEM	DESCRIPTION	Unit	Qty	RATE (KES)	AMOUNT (KES)
7.1	External Reticulation of Borehole Water to Underground Tank	Item	1		
7.2	External Reticulation of NWSC Water to Underground Tank	Item	1		
7.3	LPG External Reticulation Provision	Item	1		
	Sub Total				

Amount in Words: Kenya Shillings
Official Stamp & Address:
Tenderer's Signature: Date:
Witness' Name:
Address:
Date

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
1.0	Internal Plumbing Installations				
	Supply, deliver install, Test and Commission:				
	Supply, deriver histan, Test and Commission.				
	PP-R (Polypropylene Random Co-polymer) pipes PN 20				
	and fittings and fusion joints to (KS ISO 15874 Part 1, 2, 3				
	& 5) of approved manufacturer. Rates must allow for all Metal/plastic threaded adaptors where required for the				
	connection of sanitary fixtures, valves, sockets, sliding and				
	fixed joints etc. as required in the running lengths of				
	pipework. The pipes shall run in floors and wall chase. The				
	pipes will be pressure tested before the plastering of wall				
	commences and as per the manufacturers recommended testing pressures.				
	Pressures.				
(i)	3 Room Social				
	Pipe Works	0	T 3 4		
A B	32mm Ø PPR Pipe Ditto 25mm Ø	2 20	LM LM		
Б	Ditto 25hiin Ø	20	LIVI		
	Extra Over Pipe Work				
	Elbows/ Bends				
С	32mm Ø Elbows/ Bends	2	No.		
D	Ditto 25mm Ø	8	No.		
	Equal/Unequal Tees				
Е	32 x 32 x 32mm	1	No.		
F	25 x 25 x 25mm	4	No.		
	Reducers				
G	32 x 25mm reducer	1	No.		
,	Male/Female brass threaded adaptor	0	N.T		
J K	25 x 20mm male/female threaded adaptor 25 x 15mm ditto	8 4	No. LM		
L	25 x 15mm male threaded bend	8	LM		
	25 × 15 mm mare directed bend		7141		
	Total Carried to Next Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Total from Previous Page				
М	Isolating valves 25mm Ø Gate Valve as "Pegler" or Equivalent	1	No.		
N	Shut off Angle Valve Brass plated 1/2" angle valve complete with flexible connector	4	No.		
0	Check Meter 20mm diameter water check meter	1	No.		
	Sub Total for 1 Units				
	TOTAL FOR 3 No. 3 Room Social (Per Floor)	3		x 3	
	Total Cost of Plumbing Installation for 3 Romm	Social ner	Floor		

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
(ii)	2 Room Social				
A	Pipe Works 32mm Ø PPR Pipe	2	LM		
B	Ditto 25mm Ø	20	LM		
D	Ditto 25hiii Ø	20	LIVI		
	Extra Over Pipe Work				
	Elbows/ Bends				
С	32mm Ø Elbows/ Bends	2	No.		
D	Ditto 25mm Ø	8	No.		
	Equal/Unequal Tees				
Е	32 x 32 x 32mm	1	No.		
F	25 x 25 x 25mm	4	No.		
1	20 X 20 X 2011111		140.		
	Reducers				
G	32 x 25mm reducer	1	No.		
,	Male/Female brass threaded adaptor		N.T.		
J K	25 x 20mm male/female threaded adaptor 25 x 15mm ditto	8	No.		
L	25 x 15mm ditto 25 x 15mm male threaded bend	8	LM LM		
L	23 x 13hiin male tireaded bend	°	LIVI		
	Isolating valves				
M	25mm Ø Gate Valve as "Pegler" or Equivalent	1	No.		
	Shut off Angle Valve				
N	Brass plated 1/2" angle valve complete with flexible	4	No.		
	connector				
	Check Meter				
0	20mm diameter water check meter	1	No.		
	Sub Total for 1 Units				
	TOTAL FOR 6 No. 2 Room Social (Per Floor)	6		x 6	
	TOTAL FOR U NO. 2 ROUM SOCIAL (FEE FLOOL)	0		λŪ	
	Total Cost of Plumbing Installation for 2Room	Social per	Floor		

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)	
(iii)	1 Room Social					
	Pipe Works		114			
A B	32mm Ø PPR Pipe Ditto 25mm Ø	2 20	LM			
D	Ditto 25mm Ø	20	LM			
	Extra Over Pipe Work					
	Elbows/ Bends					
С	32mm Ø Elbows/ Bends	2	No.			
D	Ditto 25mm Ø	8	No.			
	Equal/Unequal Tees					
Е	32 x 32 x 32mm	1	No.			
F	25 x 25 x 25mm	4	No.			
	Reducers					
G	32 x 25mm reducer	1	No.			
	Male/Female brass threaded adaptor					
J	25 x 20mm male/female threaded adaptor	8	No.			
K	25 x 15mm ditto	4	LM			
L	25 x 15mm male threaded bend	8	LM			
	20 X 15Hill Hate threaded bend		15171			
	Isolating valves					
M	25mm Ø Gate Valve as "Pegler" or Equivalent	1	No.			
	·					
	Shut off Angle Valve					
N.T	Brass plated 1/2" angle valve complete with flexible	4	NT.			
N	connector	4	No.			
	Check Meter					
0	20mm diameter water check meter	1	No.			
	Sub Total for 1 Units					
	TOTAL FOR 3 No. 1 Room Social (Per Floor)	3		x 3		
	Total Cost of Plumbing Installation for 1Room Social per Floor					

ITEM	DESCRIPTION	AMOUNT (KES)
	Internal Plumbing Collection Page	
1	Total Cost For Plumbing Installation for 3Room Social/ Floor	
2	Total Cost For Plumbing Installation for 2Room Social/ Floor	
3	Total Cost For Plumbing Installation for 1Room Social/ Floor	
4	Total Plumbing Cost Per Floor	
	Total Plumbing Cost for G + 14 Levels (Item 4 x 15 Floors)	
	Total Cost (Item 8 +7) of Plumbing Carried to Summary Page	

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
2	Risers and Roof Levels Plumbing				
	Pipe Works				
A	75mm Ø PPR pipe	100	LM		
В	Ditto 63mm Ø	50	LM		
С	Ditto 50mm Ø	130	LM		
D	Ditto 40mm Ø	130	LM		
Е	Ditto 32mm Ø	130	LM		
	Extra Over Pipe Work				
	Elbows/ Bends				
F	75mm Ø Elbows/ Bends	15	No.		
G	Ditto 63mm Ø	10	No.		
Н	Ditto 50mm Ø	8	No.		
I	Ditto 40mm Ø	8	No.		
J	Ditto 32mm Ø	15	No.		
	Equal/Unequal Tees				
K	63 x 63 x 63mm	6	No.		
L	63 x 50 x 63mm	10	No.		
M	50 x 32 x 50mm	60	No.		
N	40 x 32 x 40mm	60	No.		
О	32 x 32 x 32mm	61	No.		
	Reducers				
Р	63 x 50mm reducer	8	No.		
Q	50 x 40mm reducer	8	No.		
R	40 x 32mm reducer	8	No.		
S	32 x 25mm reducer	181	No.		
	Male/Female brass threaded adaptor				
Т	63 x 50mm male/female threaded adaptor	6	No.		
U	32 x 25mm male/female threaded adaptor	181	No.		
	Isolating valves				
V	75mm Ø PN 16 Gate Valve as "Pegler" or Equivalent	2	No.		
W	63mm Ø Ditto	2	No.		
X	50mm Ø Ditto	6	No.		
Total Carried to the Next Page					

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
W	Total from Previous Page Roof Tanks Supply, Deliver, Install and Test external flanged GRP tank Size: 4000x4000x1000mm high. Internal brazing tank material as SS304 Stainless Steel complete with Stainless Steel Access Ladder, Water Level Indicator, Stainless Steel Bolts 1 No. 50mm dia tank supply 1 No. 80mm dia washout with gate valve, 1No. 100mm domestic discharge, 1No.50mm FHR discharge, 1 No. 75mm dia overflow Capacity: 32,000 litres. Tank to be supplied with 1No.50mm diameter High Pressure brass float valve. 50mm diameter Pressure reducing valve with self-contained replaceable cartridge. Brass body, With pressure regulating scale for manual pressure adjustment. Stainless steel strainer cartridge with transparent housing, With replacement strainer and key to service strainer and cartridge, Male union connections, Strainer mesh size Ø: 0,28 mm., Max. working temperature: 40°C Certified to KS Standards. The tank to be supported as per Structural Engineers details (Quote Install Only).	QTY. 0	No.		AMOUNT (KES)
	Total Cost of Riser & Roof Level Plumb				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
3	SANITARY FITTINGS AND ACCESSORIES SUPPLY AND INSTALL;				
	Water Closet (WC) Pan				
A	Floor Standing Close Coupled WC Bowl complete with seat cover, flexible connection and cistern, WC connector relevant fittings & accessories	181	No.		
	Wash Basin				
В	Wall Hang Wash Basin 450x485x230m White Complete with bottle traps, flexible connection hoses and other accessories with cws only tap	181	No.		
	Shower Fittings				
С	Shower fitting c/w 15mm diameter chrome plated stop cork, Instant shower fitting and 1/2" Cobra wall mounted tap as Pegler or equal and equivalent	181	No.		
	Bathroom Accessories				
D	Medium Washroom bathroom set Consisitng of Toilet roll holder, soap dish holder, and Coat Hooke	181	No.		
	Kitchen Sink				
E	Stainless steel kitchen sink single drain, single bowl complete overflow and 40mm diameter plastic tubular ptrap PVC Bottle Trap and waste 1.5in x 40, Long Neck Wall type Bib Tap	181	Set		
	Total Carried to Next Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
4	FIRE PROTECTION				
4.1	Hose Reel				
A	Supply and Install automatic 30 meters long, 25mm diameter hosereel and nozzle installed to KS 2003:2006	30	No.		
	Pipework				
	GI Class 'B' tubing to KS06-259 with screwed and socketed joints to KS ISO 7-1:1994 including all range piping, fittings, hanagers, supports, brackets, and supports				
В	50mm diameter	120	LM		
С	25mm ditto	30	LM		
D	Extra Over Piping For Fittings:- Elbows/Various Bends 50mm bend/elbow	5	No.		
E	25mm ditto	30	No.		
F	Equal/Unequal tees $50 \times 50 \times 50$ mm tee	5	No.		
G	$50 \times 50 \times 30$ min tee $50 \times 50 \times 25$ mm ditto	30	No.		
	Reducers				
Н	50 x 25mm reducer	30	No.		
I	Unions 50mm diameter union	10	No.		
	Valves				
K	25mm diameter quarter Turn hose reel isolation valve to be as PEGLER or approved equivalent.	30	No.		
L	Painting for Hose Reel System Allow for Wire brushing, cleaning and painting of the complete hosereel pipework installation with one coat of red oxide primer, undercoat, and gloss coat to specifications	1	Item		
	Hose Reel Pump				
M	Supply and install 6m3/Hr at 3 Bar hosereel pumpset	0	Lot		
	Carried to Next Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Carried From Privious Page				
4.2	Portable Fire Protection Equipment				
	Supply, deliver, install, test and commission portable fire protection equipment with initial fill complete with all the necessary mounting accessories.				
A	9 litres, carbon dioxide gas extinguisher	30	No.		
В	4.5kg ABC dry powder extinguisher	30	No.		
4.3	Dry Riser Installations				
	Supply, deliver and install Galvernised Iron (GI) Pipe KS 06-259 Class B, Groove fittings including fixing and jointing. Tenderers must allow in their pipework prices for Galvanised Support Brackets, Clamping screw, Threaded Rod, Bolts & all the couplings, connectors, joints etc. required in the running length of pipework and also where necessary, for pipe fixing clips, holderbats plugged and screwed, brackets and pipe sleeves through structural members.				
A	100mm diameter GI	50	LM		
	Extra over GI Pipe tubing for the following:				
	Bends				
В	100mm diameter bend	2	No.		
	Tees				
С	100mm ditto	15	No.		
D	Reducers 100x65mm GI Pipe	15	No.		
	a secondari di Ape	10	140.		
	Flanged Couplers	_			
Е	100mm diameter GI union	30	No.		
	Landing Valve				
F	65mm diameter landing valve as Merry -Weather "Equery" constant pressure outlet with flanged inlet and 1No. 65mm dia female instantaneous outlet with blank cap and chain.	15	No.		
	Carried to Next Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Carried From Privious Page				
	Fire Hose				
G	65mm dia x30m long canvas hose complete with nozzle/ Spray	1	No.		
Н	Wall mounted (on ground floor only) Fire Hose Cabinet to details	1	No.		
I	Pressure Release Valve 25mm dia Air Relief Valve as specified	1	No.		
	Breaching Inlet				
J	100mm 2-way horizontal mounted pumping in breeching inlet to BS 5041 Part 3 and horizontal inlet box with door fitted with Georgian wired glass panel to BS5041 Part 5. Inclussive of Breeching inlet cabinet as specified complete with access break glass and painted	1	No.		
K	Painting for Dry Riser System Allow for Wire brushing, cleaning and painting of the complete dry riser pipework installation with one coat of red oxide primer, undercoat, and gloss coat to specifications.	1	Sum		
L	Pressure testing Allow for pressure testing of the entire Dry riser installation and obtain relevant test certificates endorsed by the Engineer or his representative.	1	Sum		
	Total Cost of Fire Protection Instal				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Foul Drainage (Ground Floor)				
A B C	Supply, deliver and install the following uPVC (Unplasticized Polyvinyl chloride) to (KS ISO 1452 Part 1, 2, 3, 4 & 5) Heavy gauge soil and waste system. Allow for all the various sizes of adaptor, connectors, sockets, holderbats, clips etc not measured but required for the satisfactory functioning of the system. Piping 40mm uPVC Heavy Duty (Above ground) 50mm ditto 100mm ditto	40 210 50	LM LM LM		
D	150mm ditto	50	LM		
E	100mm diameter heavy duty (Below Ground)	150	LM		
F	150mm ditto	150	LM		
	Extra over uPVC Pipeworks				
G	40mm sweep bend	26	No.		
Н	50mm sweep bend	15	No.		
I	100mm sweep bend	26	No.		
J	150mm sweep bend	16	No.		
K	40mm 45° bend	26	No.		
L	50mm 45° bend	15	No.		
M	40mm access plug	26	No.		
N	100mm bend WC connector	13	No.		
0	40mm bottle 'p' trap	26	No.		
Р	150mmvent cowl	13	No.		
Q	100mmvent cowl	13	No.		
R	100 x 50mm floor trap set complete with polycarbonate flush grating.	26	No.		
S	Gulley Trap Gully trap comprising of 100mm diameter golden brown uPVC gully piece, 100mm diameter uPVC trap spigot outlet with screws and washers, and 300 x 300mm masonry gully trap chamber with mild steel plate and a heavy duty iron cover. Total Carried to Next Page	39	No.		

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
Т	Total From Previous Page First Manholes Construct manhole/ inspection chamber size 450 x 600 x 750mm deep internally in 200mm stone walls, 150mm concrete bed, water proof plaster, forming drain channels, medium duty cover frame in cast iron with recessed cover with concrete infill and all necessary formwork, excavation and soil disposal.	32	No.		
	Total Cost For Ground Floor Foul Drainage Installation				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Foul Drainage (1st Floor to 14th Floor)				
	Supply, deliver and install the following uPVC (Unplasticized Polyvinyl chloride) to (KS ISO 1452 Part 1, 2, 3, 4 & 5) Heavy gauge soil and waste system. Allow for all the various sizes of adaptor, connectors, sockets, holderbats, clips etc not measured but required for the satisfactory functioning of the system.				
	Piping				
A	40mm uPVC Heavy Duty (Above ground)	60	LM		
В	50mm ditto	60	LM		
С	100mm ditto	65	LM		
D	150mm ditto	42	LM		
	Extra over uPVC Pipings				
Е	40mm sweep bend	50	No.		
F	50mm sweep bend	26	No.		
G	40mm 45°sweep bend	36	No.		
Н	50mm 45°sweep bend	25	No.		
I	50mm y-connector	13	No.		
J	40mm sweep tee	6	No.		
K	50mm sweep tee	2	No.		
L	150mm by 100 branch	12	No.		
M	100 x 50mm bose connector	13	No.		
N	150 x 50mm bose connector	13	No.		
О	40mm access plug	25	No.		
P	100mm access plug	4	No.		
Q	100mm single branch	4	No.		
R	150mm single branch	4	No.		
S	100mm WC bend/ horizontal connector	13	No.		
T	40mm bottle 'p' trap	26	No.		
U	100 x 50mm floor trap set complete with polycarbonate flush grating	24	No.		
	Sub Total for 1 Floor				
	TOTAL FOR 14 Floors	14		x 14	
	Total Cost For 1st to 14th Floor Foul Drainage Installation				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Rain Water Drainage				
	Supply, deliver and install UPVC (Unplasticized Polyvinyl chloride) to (KS ISO 1452 Part 1, 2, 3, 4 & 5) rainwater pipework. Allow for all flanges, couplings, nipples, connector joints, fixing clips holder bats etc as required in running length of pipework but not measured.				
A	Piping 100mm ditto	500	LM		
B C	Extra over piping for fittings:- 100mm sweep bend 100mm flat roof rain water outlets	20 10	No. No.		
	Testing and Commissioning				
D	Allow for testing and commissioning of the rain water drainage installation to the satisfaction of the engineer.	1	Item		
	Total Cost For Rain Water Drainage Installation				

ITEM	DESCRIPTION	AMOUNT (KES)
	SUMMARY PAGE	
1.0	Total Cost for Internal Plumbing	
2.0	Total Cost for Roof + Riser	
3.0	Total Cost for Sanitary Fittings	
4.0	Total Cost for Fire Protection Installations	
5.0	Total Cost For Ground Floor Foul Drainage Installation	
6.0	Total Cost For 1st to 14th floor Foul Drainage Installation	
7.0	Total Cost For Rain Water Drainage Installation	
	Total carried to Mechanical Works Main Summary Page	

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	EXTERNAL WATER RETICULATION				
	Supply, install below HDPE PN 16 to EN12201, (KS ISO 4427 Part 1, 2, 3 & 5) ground pipe providing, fixing, jointing, testing in position & commissioning, including excavation & backfilling as required				
	Note				
	Pipe connection, tees must be electrofusion/butt fussion fittings and be included in the pipe lengths rate. he pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures.				
	Underground Piping				
A	100Ø HDPE	920	m		
В	Ditto 75Ø	284	m		
С	Ditto 63Ø	112	m		
	Isolation Valves & Valve Chamber				
	Suppy and Install Isolation valves to BS EN 1074-2:2000 Standards. Standard precast concrete valve chamber made of concrete (1:3:6) base, including formwork, excavations backfilling and disposal.				
D	Ditto 100Ø	2	No.		
E	Ditto 75Ø	15	No.		
F	Ditto 63Ø	8	No.		
G	Ditto 50Ø	4	No.		
	Total Carried to Next Page				
	TOTAL CALLEU TO INEXT I AGE				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	From previous page				
	Check/ Non- return Valve Valve Chamber & Valve Chamber				
	Suppy and Install brass check valves to EN BS 5352 Standards. Standard precast concrete valve chamber made of concrete (1:3:6) base, including formwork, excavations backfilling and disposal.				
Н	Ditto 100Ø	2	No.		
I	Ditto 75Ø	15	No.		
J	Ditto 50Ø	6	No.		
	Water Meter				
	Supply and Install brass Water Meter to the engineer's approval as kent or equal and approved. Meters to include meter chambers in the rates				
К	Water meter 100Ø	1	No.		
L	Water meter 75∅	15	No.		
M	Water meter 63∅	4	No.		
N	Water meter 50∅	5	No.		
	Garden Stand Pipe				
О	Stand pipe 15mm 2Metres long GMS stand pipe each complete witlh 15mm lockabler bib tap	22	No.		
	Total Carried to Next Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	From previous page				
	Supply and fix the following in PP-R PN 20 water pipes to (KS ISO 15874 Part 1, 2, 3 & 5), with fittings fixed to manufacturer's printed instructions. Tenderers must allow in their pipework tees, reducing branches, reducing tees, reducers, unions, nex hipples adapters etc, and pipes clips or holder bats, plugged and screwed. include for excavation and backfilling				
	Underground PPR Piping				
p	PPR 25Ø	420	m		
Q	Ditto 32Ø	580	m		
R	Pipe Sleeves 100mm diameter heavy duty PVC Class 41 pipe sleeves for crossing over pathways and driveways. The sleeves will be encased in 150mm concrete sorround.	60	m		
S	Making necessary connection from the Local municpal line (water supply) which is available near the project site, the scope of work include cutting the corporation road and making the same after connection. The contractor responsibility shall include submitting the necessary papers.	1	Lot		
	Total Carried to Next Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	From previous page				
	Accessories for Reinforced Concrete Tanks				
A	Accessories for 756m3 Reinforced Concrete Underground water Tank and which are to be in paddle flanges: 2 No. 100mm diameter outlet pipe for domestic booster pumpset, 2 No. 100mm diameter for vent/overflow pipe, 2 No. 20mm diameter for level indicator on the side of the tank with well calibrated scale, air release and drain valve complete with connection adaptors and flanges. and 2 No. 100mm diameter high pressure calming inlet for fitting for the underground tank.	2	Item		
	Sterilization				
С	Allow for flushing out and sterilizing the whole system with chlorine to the satisfaction of the Project Engineer.	1	Sum		
	Testing and commissioning				
D	Allow for sterilization of the cold water system, pressure testing and commissioning of the Plumbing installation.	1	Sum		
	Total carried to Mechanical Works Main Summary Pa	ge	-		

ITEM	DESCRIPTION	UNIT	QTY	RATE (KES)	AMOUNT (KES)
2.00	WATER & FIRE HOSEREEL PUMPS	01111	Z11	Initiz (RES)	THITO CITT (TEES)
2.10	Domestic Water Booster Pump Set: Pump Room To supply & Install 1No. Variable Speed Drive Multistage Centrifugal Pumpset deliverying a total of Volume of 50m3/h at 50m head when all the three pumps are running. Each Set consists of 1 No. Pump as Duty, 2No. Pumps as Assist arrangment each with pump integral rated at 11kW, 3-phase electric motor complete with integral control panel with pump cyclic controls, Pressure Vessel, float switch controls, AVS, Dry run protection, pressure gauge, common steel base frame, interconnecting pipework, isolating valves, non return valves, unions etc as necessary all pre-wired and assembled on a common base frame. The pressure set will be complete with the inlet and outlet manifold terminating with a valve, all frame mounted and pre-wired.	Set	1		
2.20	Sump Pump - Pump Room 1No.automatic electric motor driven submersible water pumpset consisting of 2No. Pumps in Duty Standby arrangement. Pump capacity 10m3/hr at 10m head. Pumps to be installed in a sump constructed in the pump pooms. Pumps to be complete with dirty water level switch, dry un protection float switch and control panel for the two pumps.	Item	1		
2.30	Fire Hose Reel Pumpset Supply & Install an Automatic fire hosereel pumpsets (consisting of 2No. Pumps in Duty Standby arrangement) of the multistage centrifugal type rated at 6Cu.m/hr. against a head of 30 metres complete with diaphragm pressure tank, pressure switches, integral control panel, pump cyclic controls, Pressure Vessel, float switch controls, AVS, Dry run protection, pressure gauge, common steel base frame, interconnecting pipework, isolating valves, non return valves, unions etc as necessary all pre-wired and assembled on a common base frame Enclosed in Pump Cage. The pressure set will be complete with the inlet and outlet manifold terminating with a valve, all frame mounted and pre-wired. Only one installed per block.	Item	14		
	TOTAL FOR WATER PUMPS TO THE MAIN SUMMARY PAGE				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KES)	AMOUNT (KES)
3.00	WATER TANKS				
3.10	ROOF WATER TANKS GRP TANKS TANK				
3.11	TANK Supply, Deliver, Install and Test external flanged GRP tank Size: 4000x4000x1000mm high. Internal brazing tank material as SS304 Stainless Steel complete with Stainless Steel Access Ladder, Water Level Indicator, Stainless Steel Bolts 1 No. 50mm dia tank supply 1 No. 80mm dia washout with gate valve, 1No. 100mm domestic discharge, 1No.50mm FIR discharge, 1 No. 75mm dia overflow Capacity: 32,000 litres. Tank to be supplied with 1No.50mm diameter High Pressure brass float valve. 50mm diameter Pressure reducing valve with self-contained replaceable cartridge. Brass body, With pressure regulating scale for manual pressure adjustment. Stainless steel strainer cartridge with transparent housing, With replacement strainer and key to service strainer and cartridge, Male union connections, Strainer mesh size Ø: 0,28 mm,, Max. working temperature: 40°C Certified to KS Standards. The tank to be supported as per Structural Engineers details	Item	2		
	TOTAL FOR 1 BLOCK				
	TOTAL FOR WATER TANKS FOR 14 BLOCKS TO MAIN SUMMARY PAGE			X14	

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
1.0	Internal Plumbing Installations				
	Supply, deliver install, Test and Commission: PP-R (Polypropylene Random Co-polymer) pipes PN 20 and fittings and fusion joints to (KS ISO 15874 Part 1, 2, 3 & 5) of approved manufacturer. Rates must allow for all Metal/plastic threaded adaptors where required for the connection of sanitary fixtures, valves, sockets, sliding and fixed joints etc. as required in the running lengths of pipework. The pipes shall run in floors and wall chase. The pipes will be pressure tested before the plastering of wall commences and as per the manufacturers recommended testing pressures.				
(i)	Guard House				
	Pipe Works				
A	25mm Ø PPR Pipe	6	LM		
В	Ditto 20mm Ø	4	LM		
	Extra Over Pipe Work				
	Elbows/ Bends				
С	25mm Ø Elbows/ Bends	3	No.		
D	Ditto 20mm Ø	2	No.		
	Equal/Unequal Tees				
Е	25 x 20 x 25mm	1	No.		
	Reducers				
F	25 x 20mm reducer	2	No.		
	Male/Female brass threaded adaptor				
G	25 x 20mm male/female threaded adaptor	2	No.		
Н	25 x 15mm ditto	1	LM		
I	25 x 15mm male threaded bend	1	LM		
	Total Carried to Next Page				
	Total Califeu to Ivest Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Total from Previous Page				
J	Isolating valves 25mm Ø Gate Valve as "Pegler" or Equivalent	1	No.		
K	Shut off Angle Valve Brass plated 1/2" angle valve	3	No.		
L	Check Meter 25mm diameter water check meter	1	No.		
	Testing and Commissioning				
M	Allow for pressure testing of the Plumbing installation to the satisfaction of the Engineer including provision of necessary pipe plugs.		Item		
	Sub Total for 1				
	TOTAL	1		x 1	
	Total Cost of Plumbing Installation Guar	d House			

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
2.0	SANITARY FITTINGS AND ACCESSORIES SUPPLY AND INSTALL;				
	Water Closet (WC) Pan				
A	Floor Standing Close Coupled WC Bowl complete with seat cover and cistern, flexible connection hoses, WC connector relevant fittings & accessories		No.		
	Wash Basin				
В	Wall Hang Wash Basin 450x485x230m White Complte with bottle traps, flexible connection hoses and other accessories with cws only tap	1	No.		
	Shower Fittings				
D	Shower fitting c/w 15mm diameter chrome plated stop cork, Instant shower fitting and 1/2" Cobra Star Wall mounted as Pegler or approved equivalent	1	No.		
	Sub Total for 1				
	TOTAL	1		x 1	
	Total Carried to Next Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
3.0	Foul Drainage				
	Supply, deliver and install the following uPVC(Unplasticized Polyvinyl chloride) to(KS ISO 1452 Part 1, 2, 3, 4 & 5) Heavy gauge soil and waste system. Allow for all the various sizes of adaptor, connectors, sockets, holderbats, clips etc not measured but required for the satisfactory functioning of the system.				
	Piping				
A	32mm diameter heavy duty grey uPVC pipe	2	LM		
В	40mm ditto	3	LM		
C	50mm ditto	6	LM		
D	100mm ditto	4	LM		
E	100mm diameter heavy duty pipe	8	LM		
	Extra over uPVC Pipeworks				
F	32mm sweep bend	1	No.		
G	40mm sweep bend	1	No.		
Н	50mm sweep bend	2	No.		
I	100mm sweep bend	1	No.		
J	40mm 45° bend	1	No.		
K	50mm Ditto	1	No.		
L	50mm sweep tee	2	No.		
M	40 x 32mm reducer	1	No.		
N	40mm access plug	1	No.		
	Total Carried to Next Page		. '		

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Total From Previous Page				
A B	100 x 50mm floor trap set complete with polycarbonate flush grating 100mm WC bend connector	2	No.		
С	32mm bottle 'p' trap	1	No.		
D	Gulley Trap Gully trap comprising of 100mm diameter golden brown uPVC gully piece, 100mm diameter uPVC trap spigot outlet with screws and washers, and 300 x 300mm masonry gully trap chamber with mild steel plate and a heavy duty iron cover.	1	No.		
Е	Manholes Construct manhole/ inspection chamber size 450 x 600 x 750mm deep internally in 200mm stone walls, 150mm concrete bed, water proof plaster, forming drain channels, medium duty cover frame in cast iron with recessed cover with concrete infill and all necessary formwork, excavation and soil disposal.	1	No.		
F	Excavations Excavate trench for pipe not exceeding 100mm diameter and not exceeding 1.5m deep (average 600mm deep) and make good as before. Allow for hydrostatic pressure testing of drainage	8	LM		
G	installation including provision of pipe plugs and other required fittings.	1	Item		
•	Total Cost For Ground Floor Foul Drainage Installation	1			

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
4.0	Rain Water Drainage				
	Supply, deliver and install UPVC (Unplasticized Polyvinyl chloride) to (KS ISO 1452 Part 1, 2, 3, 4 & 5) rainwater pipework. Allow for all flanges, couplings, nipples, connector joints, fixing clips holder bats etc as required in running length of pipework but not measured.				
	Piping				
A	100mm ditto	6	LM		
	Extra over piping for fittings:-				
В	100mm sweep bend	2	No.		
C	100mm single branch	2	No.		
D	100mm double branch	2	No.		
E	100mm flat roof rain water outlets	1	No.		
	Total Cost For Rain Water Drainage Installation				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
5.0	ROOF WATER STORAGE TANK				
	Top Tank Deluxe heavy duty rotationally moulded polyethylene cylindrical vertical close end tank of nominal capacity of 1000 Litres and complete with lid and ball valve, float switch. Tanks to be complete with inlet, outlet and overflow connections and tank connectors for the same as described below: 1 No. 32mm diameter inlet pipe connection - 1 No. 50mm diameter outlet pipe connection - 1 No. 40 mm diameter overflow pipe connection				
A	Tank Capacity : 500 litres	1	No		
	Total Cost For Roof Tanks				

ITEM	DESCRIPTION	AMOUNT (KES)
	SUMMARY PAGE	
1.0	Total Cost for Internal Plumbing	
2.0	Total Cost for Sanitary Fittings	
3.0	Total Cost For Ground Floor Foul Drainage Installation	
4.0	Total Cost For Rain Water Drainage Installation	
5.0	Total Cost For Water Storage Tank	
	Total carried to Mechanical Works Main Summary Page	

PP-R (Polypropy 20 and fittings to	ng Installations Install, Test and Commission: Iene Random Co-polymer) pipes PN DIN 8078 and DIN 16962 with Installations			
PP-R (Polypropy 20 and fittings to	lene Random Co-polymer) pipes PN DIN 8078 and DIN 16962 with			
Inolytusion wolde	ed joints to DVS 2207 of approved			
manufacturer. Ra threaded adaptor sanitary fixtures, etc. as required ir	tes must allow for all Metal/plastic s where required for the connection of valves, sockets, sliding and fixed joints a the running lengths of pipework. The			
be pressure tested	floors and wall chase. The pipes will defore the plastering of wall as per the manufacturers sting pressures.			
n. 147 1				
Pipe Works		2	LM	
A 25mm Ø PPR Pip B Ditto 20mm Ø	e	2 2	LM	
		2	LIVI	
Extra Over Pipe V	Work			
Elbows/ Bends				
C 25mm Ø Elbows/	Bends	3	No.	
D Ditto 20mm Ø		2	No.	
Equal/Unequal 1	Γρρς			
E 25 x 20 x 25mm		1	No.	
Reducers F 25 x 20mm reduce	0.11	2	No	
F 23 x 20mm reduce	ei	2	No.	
Male/Female bra	ss threaded adaptor			
G 25 x 20mm male,	female threaded adaptor	2	No.	
H 25 x 15mm ditto		1	LM	
I 25 x 15mm male t	threaded bend	1	LM	
	Total Carried to Next Page			

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Total from Previous Page				
J	Isolating valves 25mm Ø Gate Valve as "Pegler" or Equivalent	1	No.		
,	25 min & Gate varve as Tegler of Equivalent	1	140.		
	Testing and Commissioning				
L	Allow for pressure testing of the Plumbing installation to the satisfaction of the Engineer including provision of necessary pipe plugs.		Item		
	Sub Total				
	TOTAL	1		x 1	
	Total Cost of Plumbing Installation Guard	House			

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
2.0	SANITARY FITTINGS AND ACCESSORIES SUPPLY AND INSTALL;				
	Water Closet (WC) Pan				
A	Close Coupled dual flush Floor Standing Close Coupled WC Bowl complete with seat cover and cistern, WC connector relevant fittings & accessories		No.		
	Wash Basin				
В	WHB basin Full pedestal Wash Basin 450x485x230m White Complte with bottle traps, flexible connection hoses and other accessories with cws only tap	1	No.		
	Shower Fittings				
С	Shower fitting c/w 15mm diameter chrome plated stop cork, Instant shower fitting and 1/2" Cobra 211- 15 Star Pillar tap as Pegler or equal and equivalent	1	No.		
	Cult Tatal fau 1				
	Sub Total for 1				
	TOTAL	1		x 1	
	Total Cost of Sanitary Fittings & Accesso	ries			

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Foul Drainage				
	Supply, deliver and install the following in key "Terrain" or equal and approved uPVC Heavy gauge soil and waste system. Allow for all the various sizes of adaptor, connectors, sockets, holderbats, clips etc not measured but required for the satisfactory functioning of the system.				
	Piping				
Α	50mm ditto	6	LM		
В	100mm ditto	4	LM		
С	100mm diameter heavy duty pipe	4	LM		
	Extra over uPVC Pipeworks				
D	50mm sweep bend	2	No.		
E	100mm sweep bend	1	No.		
	Total Carried to Next Page				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Total From Previous Page				
	Gulley Trap				
EE	Gully trap comprising of 100mm diameter golden brown uPVC gully piece, 100mm diameter uPVC trap spigot outlet with screws and washers, and 300 x 300mm masonry gully trap chamber with mild steel plate and a heavy duty iron cover.	1	No.		
	Manholes				
GG	Construct manhole/ inspection chamber size 450 x 600 x 750mm deep internally in 200mm stone walls, 150mm concrete bed, water proof plaster, forming drain channels, medium duty cover frame in cast iron with recessed cover with concrete infill and all necessary formwork, excavation and soil disposal.	1	No.		
	Excavations				
НН	Excavate trench for pipe not exceeding 100mm diameter and not exceeding 1.5m deep (average 600mm deep) and make good as before.	4	LM		
	Total Cost For Ground Floor Foul Drainage Installation				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	Rain Water Drainage				
	Supply, deliver and install UPVC rainwater pipes and PPR pipework. Allow for all flanges, couplings, nipples, connector joints, fixing clips holder bats etc as required in running length of pipework but not measured.				
	Piping				
A	100mm ditto	6	LM		
	Extra over piping for fittings:-				
В	100mm ditto	2	No.		
C	100mm sweep bend	2	No.		
D	100mm single branch	2	No.		
E	100mm double branch	2	No.		
F	100mm flat roof rain water outlets	1	No.		
	Total Cost For Rain Water Drainage Installation				
	Total Cost For Rain Water Drainage Installation				

ITEM	DESCRIPTION	QTY.	UNIT	RATE (KES)	AMOUNT (KES)
	ROOF WATER STORAGE TANK				
A	Top Tank Deluxe heavy duty rotationally moulded polyethylene cylindrical vertical close end tank of nominal capacity of 1000 Litres and complete with lid and ball valve, float switch. Tanks to be complete with inlet, outlet and overflow connections and tank connectors for the same as described below: 1 No. 32mm diameter inlet pipe connection - 1 No. 50mm diameter outlet pipe connection - 1 No. 40 mm diameter overflow pipe connection	1	No		
	Total Cost For Roof Tanks				

ITEM	DESCRIPTION	AMOUNT (KES)
	SUMMARY PAGE	
1.0	Total Cost for Internal Plumbing	
2.0	Total Cost for Sanitary Fittings	
3.0	Total Cost For Ground Floor Foul Drainage Installation	
4.0	Total Cost For Rain Water Drainage Installation	
5.0	Total Cost For Roof Tanks	
	Total carried to Mechanical Works Main Summary Page	

ELECTRICAL INSTALLATION WORKS

GRAND SUMMARY PAGE ELECTRICAL INSTALLATION

PROPOSED KASARANI SOCIAL HOUSING HOUSING PROJECT ELECTRICAL INSTALLATIONS BILL OF QUANTITIES

GRAND SUMMARY PAGE LOT 4

ITEM	DESCRIPTION	Unit	Qty	RATE (KSHS)	AMOUNT (KSHS)
1	SUMMARY FOR INCOMING POWER & KPLC RELATED COSTS	Lot	1		
2	SUMMARY FOR ELECTRICAL SERVICES FOR SOCIAL HOUSING BLOCK	No	14		
3	SUMMARY FOR ELECTRICAL SERVICES FOR GATE HOUSE	No	1		
4	SUMMARY FOR ELECTRICAL SERVICES FOR GARBAGE RECEPTACLE	No	3		
5	SUMMARY FOR EXTERNAL ELECTRICS	No	1		
6	SUMMARY FOR LIFT INSTALLATIONS	No	28		
7	SUMMARY FOR SMATV INSTALLATIONS	No.	14		
	TOTALS FOR ELECTRICAL INSTALLATION				
	SERVICES FOR PROPOSED KASARANI SOCIAL				
	HOUSING PROJECT				

	Ommisions
1.00	Generators Estimate at KES.28,000,000.00 (Generator and Changeover Cost)
2.00	CCTV Installations at KES.6,300,000.00 (At main entrance to each block and rooftop
	at Kshs 450,000.00 per block)
3.00	Capital Contribution to KPLC For Power Connection at KES.15,120,000.00 (With
3.00	estimate cost of Ksh 6,000.00 per unit)

An	nount in Words: Kenya Shillings
Off	icial Stamp & Address:
 Ter	nderer's Signature:Date:
Wi	tness' Name:Witness' Signature:
Ad	dress:
Da	te:

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	BILL NO. 1 PROPOSED TYPICAL SOCIAL UNITS BLOCI	<u>K</u>			
A	ONE ROOM SOCIAL UNITS				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
	LIGHTING POINTS				
1.01	Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for one way switching, but excluding the switch and luminaire.	No.	3		
1.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:-				
	i) 10A one gang one way switch	No.	3		
1.03	LIGHTING FITTINGS				
	a) Ceiling rose complete with 3 core flex cable, lamp holder and 11W led lamp as crabtree or approved equivalent Type 'CR'	No.	2		
	b) Spherical screwneck luminaire with opal glass and 16W compact fluorescent lamp as Astra, Micromark, Thorn or approved equivalent. " Type BF "	NT.	1		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg. POWER AND SOCKET OUTLET POINTS				
1.04	13A SP socket point completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories but excluding the 13A SP switched socket outlet.	No.	3		
1.05	Socket Outlet plates i) 13A SP twin switched socket outlet as MK 2536 or equal & approved equivalent.	No.	3		
1.06	Instant shower water heater power points completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories ,but excluding the 20A DP connection unit		1		
1.07	20A DP switched connection unit with neon indicator as MK or approved equivalent	No.	1		
	Total Carried Forward to the Next Pg.				

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ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
	TELEPHONE, DATA AND TV POINTS POINTS				
1.08	Data point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking plate but excluding the telephone socket outlet.	No.	1		
1.09	DTV Socket point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories but excluding the DTV socket outlet.	No.	1		
	POWER RETICULATION AND DISTRIBUTION	 ON BO# 	ARDS		
1.10	4 ways 100A SPN Consumer Unit `A' complete with 100A SPN integral isolator ,but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent.	No.	1		
1.11	MCBs for item above as Schneider Electric Acti 9 or approved equivalent i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates	No. No. No.	1 2 1		
1.12	Sub-mains circuits for CU 'A ' above comprising of 3 x 6mm ² single core PVC insulated copper cables drawn in 32mm heavy gauge conduits and running from the LV switchboard below the staircase.	LM	30		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
В	2 ROOM SOCIAL UNITS				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	LIGHTING POINTS Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for one way switching, but excluding the switch and luminaire.	No.	4		
1.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:- i) 10A two gang one way switch	No.	4		
1.03	LIGHTING FITTINGS				
	a) Ceiling rose complete with 3 core flex cable, lamp holder and 11W led lamp as crabtree or approved equivalent Type 'CR'	No.	3		
	b) Spherical screwneck luminaire with opal glass and 16W compact fluorescent lamp as Astra, Micromark, Thorn or approved equivalent. "Type BF"	No.	1		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg. POWER AND SOCKET OUTLET POINTS				
1.04	13A SP socket point completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories but excluding the 13A SP switched socket outlet.	No.	4		
1.05	Socket Outlet plates i) 13A SP twin switched socket outlet as MK 2536 or equal & approved equivalent.	No.	4		
1.06	Instant shower water heater power points completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories, but excluding the 20A DP connection unit		1		
1.07	20A DP switched connection unit with neon indicator as MK or approved equivalent	No.	1		
	Total Carried Forward to the Next Pg.				

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ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
	TELEPHONE, DATA AND TV POINTS POINTS				
1.08	Data point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking plate but excluding the data socket outlet.	No.	1		
1.09	DTV Socket point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories but excluding the DTV socket outlet.	No.	1		
	POWER RETICULATION AND DISTRIBUTION	 ON BO <i>l</i> 	ARDS		
1.10	4 ways 100A SPN Consumer Unit `A' complete with 100A SPN integral isolator, but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent.	No.	1		
1.18	MCBs for item above as Schneider Electric Acti 9 or approved equivalent i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates	No. No. No.	1 2 1		
1.19	Sub-mains circuits for CU 'A ' above comprising of 3 x 6mm ² single core PVC insulated copper cables drawn in 32mm heavy gauge conduits and running from the LVswitchboard below the staircase.		35		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
С	3 ROOM SOCIAL UNIT				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	LIGHTING POINTS Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for one way switching, but excluding the switch and luminaire.	No.	6		
1.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:-				
	i) 10A one gang one way switch ii) 10A two gang one way switch	No. No.	4 1		
1.03	LIGHTING FITTINGS				
	a) Ceiling rose complete with 3 core flex cable, lamp holder and 11W led lamp as crabtree or approved equivalent Type 'CR'	No.	5		
	b) Spherical screwneck luminaire with opal glass and 16W compact lamp as Astra, Micromark, Thorn or approved equivalent. "Type BF"	No.	1		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg. POWER AND SOCKET OUTLET POINTS				
1.04	13A SP socket point completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories but excluding the 13A SP switched socket outlet.	No.	5		
1.05	Socket Outlet plates i) 13A SP twin switched socket outlet as MK 2536 or equal & approved equivalent.	No.	5		
1.06	Instant shower water heater power points completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories, but excluding the 20A DP connection unit		1		
1.07	20A DP switched connection unit with neon indicator as MK or approved equivalent	No.	1		
	Total Carried Forward to the Next Pg.				

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ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
	TELEPHONE, DATA AND TV POINTS POINTS				
1.13	Data point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking cover but excluding the telephone socket outlet.	No.	1		
1.14	DTV Socket point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking cover but excluding the DTV socket outlet.	No.	1		
	POWER RETICULATION AND DISTRIBUTION	ON BOA	ARDS		
1.17	4 ways 100A SPN Consumer Unit `A' complete with 100A SPN integral isolator ,but excluding the MCBs, and as Schneider Electric Acti 9 or approved equivalent.	No.	1		
1.18	MCBs for item above as Schneider Electric				
	Acti 9 i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates	No. No. No.	1 2 1		
1.19	Sub-mains circuits for CU 'A ' above comprising of 3 x 6mm ² single core PVC insulated copper cables drawn in 32mm heavy gauge conduits and running from the Lv switchboard below the staircase.	LM	40		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
D	CORRIDOR/ LIFTS LOBBY AREA				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	LIGHTING POINTS Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for two way switching, but excluding the switch and luminaire.	No.	31		
1.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:- i) 10A two gang two way switch	No.	2		
1.03	LIGHTING FITTINGS				
	a) Circular shaped surface mounted led luminaire as Phillips Coreline Cat No. WL131V LED12S/840 PSED EL3 WH " Type N "	No.	12		
	b) Emergency Maintained Circular shaped surface mounted led luminaire as Phillips Coreline Cat No. WL131V LED12S/840 PSED EL3 WH " Type Ne "	No.	3		
	c) 8W bulkbead luminaire ,polycarbonate base, and clear diffuser and installed inside the lift shaft As Thorn EWB/ETB bulkhead. " Type G "	No.	2		
	Total Carried Forward to the Next Pg.	<u> </u>			

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg. d) Bulkhead fitting with moulded glass diffuser				
	& Die Cast Aluminium base c/w 16W PL Lamp as Massive Sunderland Cat. No. 71410/01/31 for security lights. " Type B "	No.	14		
1.04	CCTV points in designtaed locations for survailance, comprising of 25mm diameter HG PVC conduits complete with draw wire and the blanking plate. Allow for draw boxes where all the conduits from each security point converge.		6		
1.05	300x 300x 100mm deep 16 G galvanized adaptable box.	No.	2		
	LIGHTING CONTROL				
1.06	24A, 240V, 2P DB/CU mounted silent operation contactor for Switching External lights complete with all accessories and as CRABTREE CIK24 or an approved equivalent	No.	2		
1.07	Photocell control unit and wired to energize the contactors complete with a D.P override switch as THORN QPK or approved equivalent		2		
1.08	Water booster power points completely wired in 5 x 6mm ² single core PVC insulated copper cables drawn in 38mm diameter heavy gauge PVC conduits including all accessories ,but excluding the the 40A TPN isolator	Mtrs.	15		
L	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
1.09	40A TPN isolator as MK or approved equivalent	No.	1		
1.10	Lifts isolators power points completely wired in 5 x 6mm ² single core PVC insulated copper cables drawn in 32mm diameter heavy gauge PVC conduits including all accessories ,but excluding the the 63A TPN isolator	3.60	30		
1.11	63A TPN isolator as MK or approved equivalent	No.	2		
1.12	8 ways 100A TPN distribution boards 'T' complete with 100A TPN integral isolator ,but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent.	No.	2		
1.13	4 ways 100A SPN Consumer Unit `C' complete with 100A SPN integral isolator ,but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent for common services.	No.	5		
1.14	MCBs for item above as Schneider Electric Acti 9 i)10 A SP MCB ii) 32 A SP MCB iii) 40 A SP MCB iv) 32 A TP MCB v) Blanking plates	No. No. No. No.	6 4 5 3 8		
	Total Carried Forward to the Next Pg.				

Total Carried Forward to the Next Pg.

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
1.15	Total B/F from Previous Pg. Sub-mains circuits for DB 'T' above comprising of 4 core 25mm ² PVC/SWA/PVC cable drawn in cable tray/ 50mm diameter heavy gauge conduits and running from the Lv switchboard	LM	55		
1.16	Sub-mains circuits for CU 'C ' above comprising of 3 x 6mm2 single core PVC insulated copper cables drawn in 32mm heavy gauge conduits and running from common distribution board.	LM	30		
1.18	200mm x 50mm galvanised metallic cable tray (Telecom, DTV, Internet Cables) gauge 14 (riser duct) c/w all mounting accessories bends, rawl bolts, threaded bolts, brackets,	LM.	60		
1.19	200mm x 50mm galvanised metallic cable tray (Power Cables) gauge 14 (riser duct) c/w all mounting accessories bends, rawl bolts, threaded bolts, brackets,	LM.	40		
	Total Carried Forward to Ground Floor Collect	ion Pg.			

ITEM	DESCRIPTION	QTY	RATE (KSH)	AMOUNT (KSH)
	GROUND FLOOR SUMMARY PAGE			
1	Total Amount for 1 Room Social Unit	3	0.00	
2	Total Amount for 2 Room Social Unit	6	0.00	
3	Total Amount for 3 Room Social Unit	3	0.00	
4	Total Amount for Common Area	1	0.00	
	Total Carried Forward to Ground Floor Collection Pg.			

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
(ii)	TYPICAL 1ST - 14TH FLOOR				
A	1 ROOM SOCIAL UNITS				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	LIGHTING POINTS Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for one way switching, but excluding the switch and luminaire.	No.	3		
1.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:- i) 10A one gang one way switch	No.	3		
1.03	LIGHTING FITTINGS	 			
	a) Ceiling rose complete with 3 core flex cable, lamp holder and 11W led lamp as crabtree or approved equivalent Type 'CR'	No.	2		
	b) Spherical screwneck luminaire with opal glass and 16W compact fluorescent lamp as Astra, Micromark, Thorn or approved equivalent. "Type BF"	N.T.	1		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg. POWER AND SOCKET OUTLET POINTS				
1.04	13A SP socket point completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories but excluding the 13A SP switched socket outlet.	No.	3		
1.05	Socket Outlet plates i) 13A SP twin switched socket outlet as MK 2536 or equal & approved equivalent.	No.	3		
1.06	Instant shower water heater power points completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories ,but excluding the 20A DP connection unit		1		
1.07	20A DP switched connection unit with neon indicator as MK or approved equivalent	No.	1		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
	TELEPHONE, DATA AND TV POINTS POINTS				
1.08	Data point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking plate but excluding the telephone socket outlet.	No.	1		
1.09	DTV Socket point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories but excluding the DTV socket outlet.	No.	1		
	POWER RETICULATION AND DISTRIBUTION	ON BOA	ARDS		
1.10	4 ways 100A SPN Consumer Unit `A' complete with 100A SPN integral isolator ,but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent.	No.	1		
1.11	MCBs for item above as Schneider Electric Acti 9 or approved equivalent i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates	No. No. No.	1 2 1		
1.12	Sub-mains circuits for CU 'A ' above comprising of 3 x 10mm ² single core PVC insulated copper cables drawn in 32mm heavy gauge conduits and running from the LV switchboard below the staircase.	LM	45		
	Total Carried Forward to the Next Pg.				

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ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
В	2 ROOM SOCIAL UNITS				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	LIGHTING POINTS Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for one way switching, but excluding the switch and luminaire.	No.	4		
1.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:- i) 10A two gang one way switch	No.	4		
1.03	LIGHTING FITTINGS				
	a) Ceiling rose complete with 3 core flex cable, lamp holder and 11W led lamp as crabtree or approved equivalent Type 'CR'	No.	3		
	b) Spherical screwneck luminaire with opal glass and 16W compact fluorescent lamp as Astra, Micromark, Thorn or approved equivalent. "Type BF"	No.	1		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg. POWER AND SOCKET OUTLET POINTS				
1.04	13A SP socket point completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories but excluding the 13A SP switched socket outlet.	No.	4		
1.05	Socket Outlet plates i) 13A SP twin switched socket outlet as MK 2536 or equal & approved equivalent.	No.	4		
1.06	Instant shower water heater power points completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories, but excluding the 20A DP connection unit		1		
1.07	20A DP switched connection unit with neon indicator as MK or approved equivalent	No.	1		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
	TELEPHONE, DATA AND TV POINTS POINTS				
1.08	Data point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking plate but excluding the data socket outlet.	No.	1		
1.09	DTV Socket point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories but excluding the DTV socket outlet.	No.	1		
	POWER RETICULATION AND DISTRIBUTION	 On Bo <i>i</i> 	ARDS		
1.10	4 ways 100A SPN Consumer Unit `A' complete with 100A SPN integral isolator, but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent.	No.	1		
1.18	MCBs for item above as Schneider Electric Acti 9 or approved equivalent i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates	No. No. No.	1 2 1		
1.19	Sub-mains circuits for CU 'A ' above comprising of 3 x 10mm ² single core PVC insulated copper cables drawn in 32mm heavy gauge conduits and running from the LVswitchboard below the staircase.		45		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
С	3 ROOM SOCIAL UNIT				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	LIGHTING POINTS Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for one way switching, but excluding the switch and luminaire.	No.	6		
1.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:-				
	i) 10A one gang one way switch ii) 10A two gang one way switch	No. No.	4 1		
1.03	LIGHTING FITTINGS				
	a) Ceiling rose complete with 3 core flex cable, lamp holder and 11W led lamp as crabtree or approved equivalent Type 'CR'	No.	5		
	b) Spherical screwneck luminaire with opal glass and 16W compact lamp as Astra, Micromark, Thorn or approved equivalent. "Type BF"	No.	1		
	Total Carried Forward to the Next Pg.				

Total Carried Forward to the Next Pg.

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg. POWER AND SOCKET OUTLET POINTS				
1.04	13A SP socket point completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories but excluding the 13A SP switched socket outlet.	No.	5		
1.05	Socket Outlet plates i) 13A SP twin switched socket outlet as MK 2536 or equal & approved equivalent.	No.	5		
1.06	Instant shower water heater power points completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories, but excluding the 20A DP connection unit		1		
1.07	20A DP switched connection unit with neon indicator as MK or approved equivalent	No.	1		
	Total Carried Forward to the Next Pg.				

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ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
	TELEPHONE, DATA AND TV POINTS POINTS				
1.13	Data point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking cover but excluding the telephone socket outlet.		1		
1.14	DTV Socket point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking cover but excluding the DTV socket outlet.		1		
	POWER RETICULATION AND DISTRIBUTION	ON BOA	ARDS		
1.17	4 ways 100A SPN Consumer Unit `A' complete with 100A SPN integral isolator ,but excluding the MCBs, and as Schneider Electric Acti 9 or approved equivalent.	No.	1		
1.18	MCBs for item above as Schneider Electric Acti 9 i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates	No. No. No.	1 2 1		
1.19	Sub-mains circuits for CU 'A ' above comprising of 3 x 10mm ² single core PVC insulated copper cables drawn in 32mm heavy gauge conduits and running from the Lv switchboard below the staircase.	LM	50		
	Total Carried Forward to the Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
D	CORRIDOR/ LIFTS LOBBY AREA				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	LIGHTING POINTS Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for two way switching, but excluding the switch and luminaire.	No.	17		
1.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:-				
	i) 10A one gang two way switch ii) 10A two gang two way switch	No. No.	4 4		
1.03	LIGHTING FITTINGS				
	a) Circular shaped surface mounted led luminaire as Phillips Coreline Cat No. WL131V LED12S/840 PSED EL3 WH " Type N "	No.	12		
	b) Emergency Maintained Circular shaped surface mounted led luminaire as Phillips Coreline Cat No. WL131V LED12S/840 PSED EL3 WH " Type Ne "	No.	3		
	c) 8W bulkbead luminaire ,polycarbonate base, and clear diffuser and installed inside the lift shaft As Thorn EWB/ETB bulkhead. " Type G "	No.	2		
	Total Carried Forward to Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
1.04	CCTV points in designtaed locations for survailance, comprising of 25mm diameter HG PVC conduits complete with draw wire and the blanking plate. Allow for draw boxes where all the conduits from each security point converge.		6		
1.05	300x 300x 100mm deep 16G galvanized adaptable box.	No.	2		
1.06	8 ways 100A TPN distribution boards 'T' complete with 100A TPN integral isolator ,but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent.		1		
1.07	4 ways 100A SPN Consumer Unit `A' complete with 100A SPN integral isolator ,but excluding the MCBs, and as Schneider Electric Acti 9 or approved equivalent.		3		
1.08	MCBs for item above as Schneider Electric Acti 9 i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates Sub-mains circuits for CU 'A ' above comprising of 3 x 10mm ² single core PVC insulated copper cables drawn in 32mm heavy gauge conduits and running from the Lv switchboard below the staircase.		1 2 1		
	Total Carried Forward to Next Pg.				

ITEM	DESCRIPTION	QTY	RATE (KSH)	AMOUNT (KSH)
	TYPICAL FLOOR SUMMARY			
1	Total Amount for 1 Room Social Unit	42		
2	Total Amount for 2 Room Social Unit	84		
3	Total Amount for 3 Room Social Unit	43		
4	Total Amount for Common Area	14		
	Total for 14 No.Typical Floor Carried Forward to			

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ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
(iii)	EARTHING AND LIGHTNING PROTECTIO	<u>N</u>			
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	Air Termination 2000mm x15mmØ multiple point pure copper AirRods/ Termination with spikes as Furse Part No. RA240 or approved equivalent	No.	3		
1.02	Copper Air Rod Base as Furse Part No. SD105-H or approved equivalent	No.	3		
1.03	Copper Junction Clamps for copper tape as Furse Part No. CN105-H or approved equivalent	No.	3		
1.04	25mm x 3mm Tinned Copper Tape as Furse TC230 or approved equivalent	Lm.	130		
1.05	Down Conductor 25mm x 3mm Tinned Copper Tape as Furse TC230 or approved equivalent	Lm.	200		
1.06	Screwdown copper test clamp as Furse CT305 or approved equivalent	No.	3		
1.07	38mm Ø HG PVC conduits for drawing the down conductor above.	Lm.	200		
	Total Carried Forward to Next Pg.				

Earth Termination 15mm Ø, 1500mm long solid copper earth rod of w driving stud, coupling, and spike as Furse RC011 or approved equivalent 1.09 Earth rod to tape clamp type A as Furse CR108 or approved equivalent 1.10 Concrete inspection earth pit Cat. No. PT 005 with 5 hole earth bar as Furse Cat. No. PT 006. 1.11 600mm x 600mm copper earth mat made from 25mm x 3mm copper tape at 300mm spacing, buried to permanent moisture level and complete with all clamps and 6m long 25mm x 3mm copper tape clamped to the down conductor, soil conditioning agents (marconite or bentonite) as necessary to achieve earthing resistance value below 10-Ohms 1.12 Allow for earthing tests for the above and submission of the report to the engineer to BS7671 & BS62305 standards Bonding Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, smatv system, window frames, cladding, metal roof etc. and the main earth for the building.	ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
1.08 1.08 1.00mm long solid copper earth rod c/w driving stud, coupling, and spike as Furse RC011 or approved equivalent No 3 1.09 Earth rod to tape clamp type A as Furse CR108 or approved equivalent No. 3 1.10 Concrete inspection earth pit Cat. No. PT 005 with 5 hole earth bar as Furse Cat. No. PT 006. No. 2 1.11 600mm x 600mm copper earth mat made from 25mm x 3mm copper tape at 300mm spacing, buried to permanent moisture level and complete with all clamps and 6m long 25mm x 3mm copper tape clamped to the down conductor, soil conditioning agents (marconite or bentonite) as necessary to achieve earthing resistance value below 10-Ohms 1 1.12 Allow for earthing tests for the above and submission of the report to the engineer to BS7671 & BS62305 standards Bonding Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, smatv system, window frames, cladding metal Item 1		Total B/F from Previous Pg.				
1.10 Concrete inspection earth pit Cat. No. PT 005 with 5 hole earth bar as Furse Cat. No. PT 006. 1.11 600mm x 600mm copper earth mat made from 25mm x 3mm copper tape at 300mm spacing, buried to permanent moisture level and complete with all clamps and 6m long 25mm x 3mm copper tape clamped to the down conductor, soil conditioning agents (marconite or bentonite) as necessary to achieve earthing resistance value below 10-Ohms 1.12 Allow for earthing tests for the above and submission of the report to the engineer to BS7671 & BS62305 standards Bonding Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, smaty system, window frames, cladding, metal Item 1	1.08	15mm \emptyset , 1500mm long solid copper earth rod c/w driving stud, coupling, and spike as Furse		3		
with 5 hole earth bar as Furse Cat. No. PT 006. 1.11 600mm x 600mm copper earth mat made from 25mm x 3mm copper tape at 300mm spacing, buried to permanent moisture level and complete with all clamps and 6m long 25mm x 3mm copper tape clamped to the down conductor, soil conditioning agents (marconite or bentonite) as necessary to achieve earthing resistance value below 10-Ohms 1.12 Allow for earthing tests for the above and submission of the report to the engineer to BS7671 & BS62305 standards Bonding Bonding Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, smatv system, window frames, cladding, metal Item 1	1.09		No.	3		
25mm x 3mm copper tape at 300mm spacing, buried to permanent moisture level and complete with all clamps and 6m long 25mm x 3mm copper tape clamped to the down conductor, soil conditioning agents (marconite or bentonite) as necessary to achieve earthing resistance value below 10-Ohms 1.12 Allow for earthing tests for the above and submission of the report to the engineer to BS7671 & BS62305 standards Bonding Bonding Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, smatv system, window frames, cladding, metal Item 1	1.10			2		
submission of the report to the engineer to BS7671 & BS62305 standards Bonding Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, smatv system, window frames, cladding, metal Item 1	1.11	25mm x 3mm copper tape at 300mm spacing, buried to permanent moisture level and complete with all clamps and 6m long 25mm x 3mm copper tape clamped to the down conductor, soil conditioning agents (marconite or bentonite) as necessary to achieve earthing resistance value below		1		
Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, smatv system, window frames, cladding, metal Item 1	1.12	submission of the report to the engineer to	No.	1		
	1.13	Bonding and clamping to all metal work including water pipes, gas pipes, hand-rails, smatv system, window frames, cladding, metal	Item	1		
Total Carried Forward to Main Summary Pg.						

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
(iv)	GROUND FLOOR LV SWITCHBOARD				
	TAKE DELIVERY, STORE, INSTALL AND COMMISSION THE FOLLOWING:-				
1.01	Install purpose made Free-standing, fully wired front access metal clad main switchboard cubicle suitable for floor / wall mounting and manufactured in 14SWG galvanised mild steel sheet, to be finished in cream (or appropriate colour) powder coating. Wiring as shown on the schematic (the other details as per Particular Specification), complete with the following:-		1		
(i)	630Amps TP/N copper busbars - KPLC supply (Sealable)				
(ii)	630Amps MCCB as mains incomer adjustable				
(iii)	Space for 1No. 3-phase KPLC Common Services meter (kW, kWH, kVA, V, I etc), 63A TP MCB				
(iv)	181No. 63A DP MCBs for the sub-main cables				
(v)	1No. 100A TP MCBs for Common Area DB				
(vi)	Space for KPLC cut-outs including studs for mounting KPLC seals				
(vii)	Sealable studs for all cover plate screws and all necessary accessories				
(viii)	6mm perspex viewing window for each section				
(ix)	Heavy duty rubber lining for all the perspex viewing windows				
(x)	4 No. Spare ways				
	Total Carried Forward to Next Pg.				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
1.02	Total B/F from Previous Pg. Earthing for the switch-board under this section comprising 25x3mm copper tape lead, 1800mm long x 15mm diameter copper earth electrode as Furse or approved equivalent complete with driving stud and tape to rod clamp, 300mm x 300mm x 300mm deep concrete inspection earth pit with removable waterproof cover, 600mm x 600mm copper earth mat, soil conditioning agents (marconite and bentonite etc) necessary to achieve earthing value below 5-Ohms and all other necessary accessories		1	KATE (KSH)	(KSH)
	Total Carried Forward to Main Summary Pg.				

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ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
1.02	Total B/F from Previous Pg. Earthing for the switch-board under this section comprising 25x3mm copper tape lead, 1800mm long x 15mm diameter copper earth electrode as Furse or approved equivalent complete with driving stud and tape to rod clamp, 300mm x 300mm x 300mm deep concrete inspection earth pit with removable waterproof cover, 600mm x 600mm copper earth mat, soil conditioning agents (marconite and bentonite etc) necessary to achieve earthing value below 5-Ohms and all other necessary accessories		6	KATE (KOH)	(KSH)
	Total Carried Forward to Main Summary Pg.				

ITEM	DESCRIPTION	AMOUNT (KSH)
	BLOCK TYPE A SUMMARY PAGE	
1	Total Amount for Ground Floor B/F Page 17	
2	Total Amount for Typical 1st - 14th Floor B/F Page 32	
3	Total Amount for Lightning Protection B/F Page 34	
4	Total Amount for Ground Floor LV Switchboard B/F Page 36	
5	Total Amount for Typical Floor LV Switchboard B/F Page 32	
	AMOUNT FOR BILL No. 1: TYPICAL 1NO. SOCIAL UNITS BLOCK ARRIED FORWARD TO PRICE COLLECTION PAGE	

EXTERNAL ELECTRICS ELECTRICAL INSTALLATION

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	BILL NO. 3				
i)	EXTENAL SERVICES				
	Supply, Install, test and Commission the following;				
	STREET LIGHTING				
A	Cylindrical-conical pole 8 meters with single arm and tube, in hot-dipped galvanized steel painted with anchor bolts complete with photovoltaic solar panel minimum 305Wp LED light 1x2B - 80W nominal - 24V - 4000K - >190lm/W NiMH battery 24V 4P, on top of pole,	No	15		
ii)	POWER HOUSE ELECTRICS				
С	All lighting points wired in 1.5mm ² PVC cu cables in 20mm diameterHG PVC conduit embedded in wall fabrics, roof structure and floor slabs complete with switches as shown on the contract drawings	No	20		
	POWER				
D	4way 63A SPN CU as SCHNEIDER or Equivalent and Approved complete with MCBs or equal and approved.		1		
Е	All socket outlet points wired in 2.5mm ² PVC cable in conduit embedded in floor slabs and in metal trunking complete with 13A twin socket outlet as shown on the drawing	No	4		
F	Provisions for points including laying of conduits and provision of outlet boxes for the following:				
	i) Surveillance Cameras	No	2		
	DATA				
G	600 x 600 x 600 concrete manhole complete with Manhole covers.	No	20		
н	100mm diameter HG PVC ducts for ISP, laid at a depth of 600mm.	Lm.	350		
I	Trenching to a depth of 700mm, and backfilling after laying of ducts itemised above.	Lm.	0		
	Total Carried Forward to Main Summary Page				

INCOMING POWER ELECTRICAL INSTALLATION

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	BILL NO. 4				
i)	INCOMING POWER				
	KPLC RELATED WORKS				
A	150mm diameter Heavy gauge duct for incoming underground H.V. cables with 1:3:6 concrete surround	M	1920		
В	1000 x 1000 x 1000 (internal dimensions)concrete manhole complete with Manhole covers and Hatari(Danger) Sign indelibly engraved at the top	No	36		
С	Hatari(Danger) sign concerete slabs	No	320		
D	Attendance on Kenya Power and Lighting Co. Ltd.	Sum	1		
E	Complete Earthing system to KPLC requirements	Sum	1		
F	Any other item to complete the installation in this section.	Sum	1		

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	BILL NO. 8				
	GATE HOUSE & GARBAGE RECEPTACLE				
A.	GUARD HOUSE				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
	LIGHTING POINTS				
7.01	Lighting point completely wired in 3 x 1.5mm ² single core PVC insulated copper cables drawn in 20mm diameter heavy gauge PVC conduits including all accessories for one way switching, but excluding the switch and luminaire.		5.00		
	ii) Ditto as in item No. 5.01 but for two way switching	No.	2.00		
7.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:-				
	i) 10A one gang one way switch ii) 10A one gang two way switch	No. No.	6.00 4.00		
7.03	LIGHTING FITTINGS				
	a) Circular shaped surface mounted led luminaire as Phillips Coreline Cat No. WL131V LED12S/840 PSED EL3 WH "Type DL1"	No.	3.00		
	b) Bulkhead fitting with moulded glass diffuser & Die Cast Aluminium base c/w 16W PL Lamp as Massive Sunderland Cat. No. 71410/01/31 for security lights. "Type G"	No.	4.00		
7.04	CCTV points in designtaed locations for survailance, comprising of 25mm diameter HG PVC conduits complete with draw wire and the blanking plate. Allow for draw boxes where all the conduits from each security point converge.	No.	6.00		
	Total Carried Forward to Next Page				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
7.05	300x 300x 100mm deep 16 G galvanized adaptable box.	No.	1.00		
7.06	24A, 240V, 2P DB/CU mounted silent operation contactor for Switching External lights complete with all accessories and as CRABTREE CIK24 or an approved equivalent	No.	1.00		
7.07	Photocell control unit and wired to energize the contactors complete with a D.P override switch as THORN QPK or approved equivalent	No.	1.00		
	POWER AND SOCKET OUTLET POINTS				
7.08	13A SP socket point completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories but excluding the 13A SP switched socket outlet.	No.	1.00		
7.09	Socket Outlet plates i) 13A SP twin switched socket outlet as MK 2536 or equal & approved equivalent.	No.	1.00		
	TELEPHONE, DATA AND TV POINTS POINTS				
7.10	Data point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking plate but excluding the data socket outlet.	No.	1.00		
7.11	6 ways 100A SPN Consumer Unit `G' complete with 100A SPN integral isolator, but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent.		1.00		
	Total Carried Forward to Next Page				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg.				
7.12	MCBs for item above as Schneider Electric Acti 9 or approved equivalent i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates	No. No. No.	1.00 1.00 4.00		
7.13	Sub-mains circuits for CU 'G' above comprising of 2 core 6mm2 PVC/SWA/PVC cable drawn in 32mm diameter heavy gauge conduits for gate house	IМ	45.00		
ТОТА	L AMOUNT FOR BILL No. 5 GATE HOUSE CAI	RRIED I	FORWA	RD TO	

TOTAL AMOUNT FOR BILL N_0 . 5 GATE HOUSE CARRIED FORWARD TO GRAND SUMMARY PAGE

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	BILL NO. 8				
	GATE HOUSE & GARBAGE RECEPTACLE				
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	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
	LIGHTING POINTS				
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	ii) Ditto as in item No. 5.01 but for two way switching	No.	2.00		
7.02	10A white moulded switch plate as Crabtree, MK Logic, Clipsal E- Series or approved equivalent as follows:-				
	i) 10A one gang one way switch ii) 10A one gang two way switch	No. No.	6.00 4.00		
7.03	LIGHTING FITTINGS				
	a) Circular shaped surface mounted led luminaire as Phillips Coreline Cat No. WL131V LED12S/840 PSED EL3 WH "Type DL1"	No.	3.00		
	b) Bulkhead fitting with moulded glass diffuser & Die Cast Aluminium base c/w 16W PL Lamp as Massive Sunderland Cat. No. 71410/01/31 for security lights. "Type G"	No.	4.00		
7.04	CCTV points in designtaed locations for survailance, comprising of 25mm diameter HG PVC conduits complete with draw wire and the blanking plate. Allow for draw boxes where all the conduits from each security point converge.	No.	6.00		
	Total Carried Forward to Next Page				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
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7.06	24A, 240V, 2P DB/CU mounted silent operation contactor for Switching External lights complete with all accessories and as CRABTREE CIK24 or an approved equivalent	No.	1.00		
7.07	Photocell control unit and wired to energize the contactors complete with a D.P override switch as THORN QPK or approved equivalent	No.	1.00		
	POWER AND SOCKET OUTLET POINTS				
7.08	13A SP socket point completely wired in 3 x 2.5mm ² single core PVC insulated copper cables drawn in 25mm diameter heavy gauge PVC conduits including all accessories but excluding the 13A SP switched socket outlet.	No.	1.00		
7.09	Socket Outlet plates i) 13A SP twin switched socket outlet as MK 2536 or equal & approved equivalent.	No.	1.00		
	TELEPHONE, DATA AND TV POINTS POINTS				
7.10	Data point comprising of draw wire in 25mm diameter Heavy Gauge PVC conduits including all accessories and blanking plate but excluding the data socket outlet.	No.	1.00		
7.11	6 ways 100A SPN Consumer Unit `G' complete with 100A SPN integral isolator, but excluding the MCBs ,and as Schneider Electric Acti 9 or approved equivalent.		1.00		
	Total Carried Forward to Next Page				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	Total B/F from Previous Pg. MCBs for item above as Schneider Electric Acti 9 or approved equivalent i)10 A SP MCB ii)32 A SP MCB iii) Blanking plates	No. No. No.	1.00 1.00 4.00		
7.13	Sub-mains circuits for CU 'G' above comprising of 2 core 6mm2 PVC/SWA/PVC cable drawn in 32mm diameter heavy gauge conduits for gate house	IМ	45.00		
	L AMOUNT FOR BILL No. 6 GARBAGE RECEPT ARD TO GRAND SUMMARY PAGE	ΓACLE (CARRIE	ED	

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
(vi)	LIFTS INSTALLATION WORKS				
	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.01	Supply and deliver to site passenger lifts each of 800 kg or 10 persons at maximum speed 1.6 m/s machine-room type lift equipment as Specified with 2.4 car height, Finishes as follows: brushed stainless walls & ceiling, granite floor, handrails, center opening doors. The lift should have 15 stops i.e. Ground and Typical 14 floors.	No.	1		
1.02	Installation, Testing, and Commissioning of the lift and documentation	Item	1		
1.03	Allow for testing in the presence of the Government Inspector	Item	1		
1.04	Allow for all the necessary Associated Electrical Works	Item	1		
1.05	Training of client appointed representative in handling and operating the Systems.	Item	1		
1.06	Specify any other item you deem necessary for the successful completion of the lift Specify: (i)Scaffolding By MC	Item	1		
	(ii)Shaft lighting by MC	Item	1		
	(iii)Power provision in lift shaft by Electrical Contractor.	Item	1		
	(iv)	Item	1		
	TOTAL AMOUNT CARRIED TO THE MAIN SUMMARY				

ITEM	DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
1.00	SMATV SYSTEM PER BLOCK				
1.01	SUPPLY, DELIVER , INSTALL ,SET TO WORK AND COMMISSION THE FOLLOWING:-				
1.02	KU Band Satellite Receiver Dish	No.	1		
1.03	UHF Terrestial antenna capable of receiving all local channels	No.	1		
1.04	Distribution amplifiers 30 dB gain, indoor distribution amplifier c/w 240 volts DC 9 watts Amps power supply, make: ALCAD or equal and approved.	No.	2		
1.05	2 Inputs by 24 Outputs powered Multiswitch as Televes complete with power supply kit.The switch should allow for Satellite inputs and Terrestial input	No	8		
1.06	75-Ohm RG6 TV signal Coaxial cable complete with connectors interconnecting the satellite dish, aerial, amplifiers and splitters.	Lm.	4225		
1.07	DTV outlet plates as MK or Approved equivalent	No.	169		
1.08	9U Cabinet to house equipments, such as amplifiers, splitters etc	No.	1		
	TOTAL FOR 1No. BLOCK G+14				
	TOTAL FOR ING. BLOCK GTI4				
	TOTAL AMOUNT CARRIED TO THE MAIN SUMMARY				

PROVISIONAL SUMS

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PRIME COST SUMS				
	PROVISIONAL SUMS				
A	Upgrading Community Facilities to be expended as per the Project Architect's instructions	Item		50,000,000	50,000,000.00
	TOTALS FOR PROVISIONAL SUMS CARRIED TO GRAND SUMMARY			Kshs	

	ELECTRICAL INSTALLATIONS PROVISIONAL SUMS / EXCLUSIONS				
A	Supply, Installation and Commisioning of lifts to Apartment Blocks	SUM	1	252,000,000	252,000,000.00
В	Supply, Installation and Commisioning of Backup Generators	SUM	1	28,000,000	28,000,000.00
С	Supply, Installation and Commisioning of CCTV Installations	SUM	1	6,300,000	6,300,000.00
D	Fabrication, Supply and commissioning of LV Switchboards Distribution Boards	SUM	1	44,100,000	44,100,000.00
D	Supply, Installation and Commisioning of SMATV Installations	SUM	1	13,400,000	13,400,000.00
E	Capital Contribution to KPLC For Power Connection	SUM	1	15,120,000	15,120,000.00
	MECHANICAL INSTALLATIONS PROVISIONAL SUMS / EXCLUSIONS				
F	Supply only of Sanitary Fittings	SUM	1	55,256,200	55,256,200.00
G	Supply & Installations of Water Booster Pumps	SUM	1	2,400,000	2,400,000.00
Н	Supply of GRP Roof Level Water Tanks	SUM	1	19,600,000	19,600,000.00
I	Hose Reel Pumps	SUM	1	2,800,000	2,800,000.00
J	Borehole Drillling & Equiping	SUM	1	-	-
K	External Reticulation Borehole Water	SUM	1	-	-
L	External Reticulation Council Water	SUM	1	170,800	170,800.00
M	LPG External Reticulation Provision	SUM	1	-	-
N	Allow for profits, overheads and attendance	%			
	TOTAL FOR SERVICES INSTALLATIONS AND				
	PROVISIONAL SUM CARRIED TO GRAND SUMMARY				

GRAND SUMMARY	

AFFORDABLE HOUSING PROGRAMME PROPOSED CONSTRUCTION OF AFFORDABLE HOUSING AND ASSOCIATED SOCIAL INFRASTRUCTURE IN KASARANI, NAIROBI COUNTY

GRAND SUMMARY

ITEM	DESCRIPTION PAGE	FOR TENDERER USE	FOR OFFICIAL USE
IIEWI	DESCRIPTION PAGE	ONLY	FOR OFFICIAL USE
1.00	DADWICHI AD DDELIMINADIEC		
1.00 2.00	PARTICULAR PRELIMINARIES GENERAL PRELIMINARIES		
3.00 4.00	PROJECT PROVISIONS BUILDERS WORK BLOCK TYPE E - 14NO. BLOCKS		
	POWER HOUSE		
6.00	GUARD HOUSE		
7.00	GARBAGE RECEPTACLE		
8.00	UNDERGROUND WATER TANK		
	PROVISIONAL SUMS & P C SUMS		
	SERVICES INSTALLATION PROVISIONAL SUMS		
	MECHANICAL INSTALLATION		
12.00	ELECTRICAL INSTALLATION		
	SUB-TOTAL		
	ADD CONTINGENCY (3%)		
	Less: CONTRACTORS TENDER DISCOUNT		
	GRAND TOTAL CARRIED TO FORM OF TENDER (VAT INCLUSIVE)	KSHS	

TENDERER	'S NAME
ADDRESS .	
DATE	
TENDERER	'S SIGNATURE
WITNESS'S	NAME
ADDRESS .	
DATE	
WITNESS S	IGNATURE

PROPOSED CONSTRUCTION OF SOCIAL HOUSING DEVELOPMENT AND ASSOCIATED INFRASTRUCTURE IN KASARANI NAIROBI COUNTY

1.0		CONSTRUCTION COST			
	1.1	Total Tender Sum (A)	Kshs		Amount
2.0		TENDER SUM EXCLUSIONS		<u>Amount</u>	<u>Total</u>
	2.1	Boundary Wall			
	2.2	Civil works - Roads & Parking			
	2.3	Underground/Surface Water Tank			
	2.4	Civil works -sewer reticulation			
	2.5	Provisional sums& prime cost sums			
	2.6	Project Provisions			
	2.7	Services Installations provisonal sums			
		i) Backup Generators			
		ii) CCTV Installations			
		iii) LV Switchboards Distribution Boards			
		iv) KPLC For Power Connection			
		v) MATV			
		vi) Street lighting			
		vii) Water Booster Pumps			
		vii) GRP Roof Level Water Tanks			
		ix) Hose Reel Pumps			
		x) Borehole Drillling & Equiping xi) External Reticulation Borehole Water			
		xi) External Reticulation Council Water			
		xiii) LPG External Reticulation Provision			
		Zinj Li G External Redudation i Tovision			
		Total Exclusio	ons (B)	Kshs	
		Total Project Cost Less Exclusions (C = A-B)			
3.0		COST PER SQM CALCULATION			
	3.1	Total Tender Sum (A)	Kshs		
	3.2	Total Project Cost Less Exclusions (C.)	Kshs		
	3.3	Gross Built up Area (Brought forward from project data sheet)		102,458	Sqm
	3.4	Built up Area Cost per Sqm (C/D)	Kshs		Per Sqm
	3.5	Overall Cost per Sqm (A/D)	Kshs		Per Sqm
<u> </u>					

ARCHITECTURAL DRAWINGS

PROJECT LOCATION

The Social Housing Project is a part of the government's initiative to promote access to housing and shelter for all. One of the projects under this umbrella is located in along Kasarani Mwiki Road in Kasarani Constituency, Nairobi County.

THE SITE

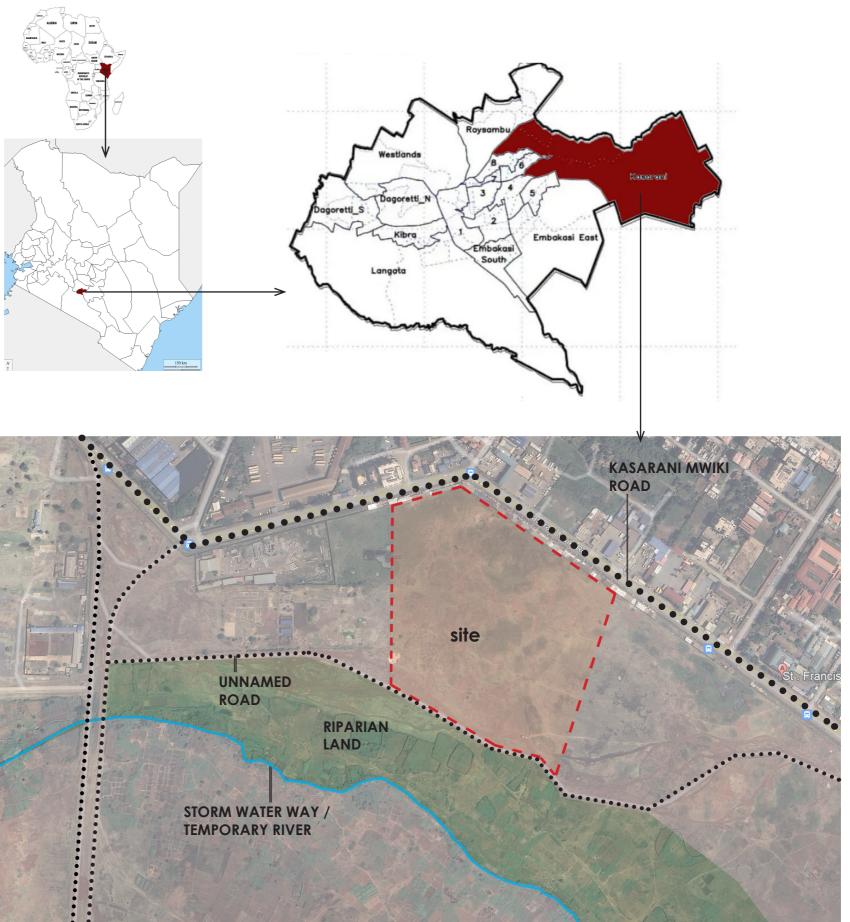
The Project site is comprised of twenty (20) acres of land with an approximate area of 80,920m². The site is currently accessed from the Kasarani Mwiki Road.



VIEW OF THE SITE



SITE FRONTAGE ALONG KASARANI - MWIKI ROAD



THE SITE AND NEIGHBOURHOOD

GENERAL NOTES

- 1. This drawing to be read in conjunction with Engineers' drawings.

 2. All dimensions are in mm unless otherwise
- 3. Drawings are not to be scaled. Only figured dimensions should be used.
- 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

DPC to be 3ply bituminous felt to be provided under all walls

STRUCTURAL

- 1. All Black cotton soil to be removed from below all building and paved surfaces 2. All reinforced concrete work will be in accordance with structural drawings.

 3. Foundation depths to be determined on site
- to S.E approval 4. All walls less than 200mm thick to be
- reinforced with hoop iron at every alternate course.
 5. All adjacent R.C work and masonry walls to

be tied with strap irons at every course **MECHANICAL**

- 1. All Plumbing and Drainage Work to comply with specifications
 2. S.V.P denotes soil vent pipe and to be
- provided at the head of the drainage 3. Where drainage is shown under driveways and slabs, to be encased in 150mm thick concrete surround.
- 4. All underground foul and waste drain pipes shall be of PVC to comply with B\$5255
- 5. All ICs within building area, driveway and parking to have heavy duty, double-seal girtigh covers and walls to be 200mm.
- 3. Minimum slope in the drain pipes to be 1% 7. No chases for pipes will be allowed in the
- 8. Sleeves will be allowed with written approval from S.E.
- 9. No cutting of concrete without express approval of the Architect or S.E. 10. All testing of pipes must be coordinated
- resolved before works begin
 11. Permanent vents denoted as P.V to be provided as shown on plan.

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT IN KASARANI

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

_FLOOR PLANS

SCALE: 1:100

DRAWN BY:

CHECKED BY:

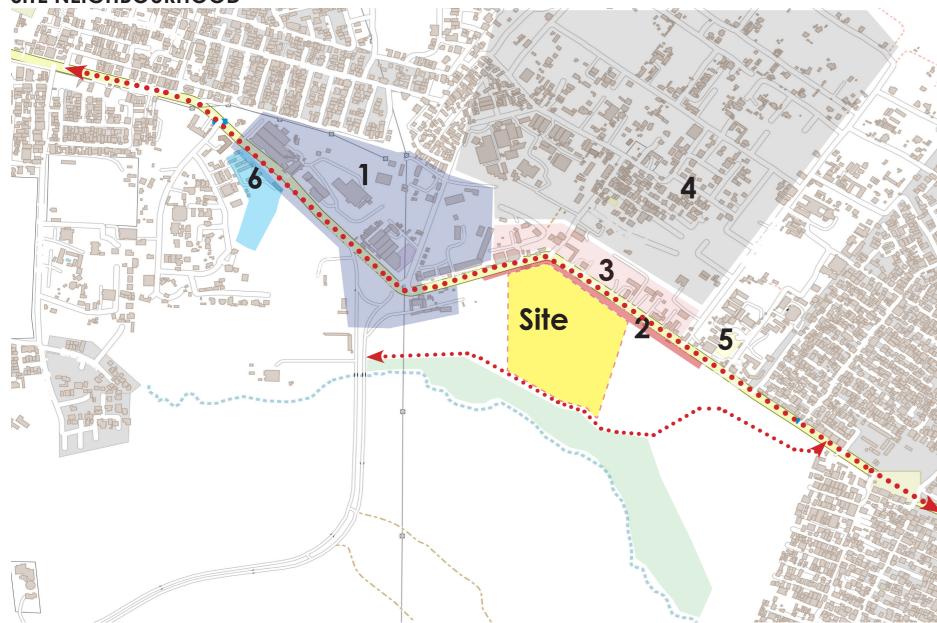
DATE:

MINISTRY OF LANDS, PUBLIC WORKS, HOUSINGANDURBAN DEVELOPMENT



FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

SITE NEIGHBOURHOOD



The site is adjacent to various amenities as follows:

1. Industrial Zone

The site is adjacent to various industries such as **DHL Warehouses** and **Hacco industries**. These serve as potential employers for the residents of the development.



DHL WAREHOUSES NEAR SITE

2. Informal Commercial Zone

The site frontage along Mwiki Kasarani road is bordered by informal shops set up to serve the neighbourhood. The design will have a commercial frontage along Mwiki Kasarani road to respond to the commercial demand along this area.



INFORMAL SHOPS AT THE SITE'S NORTHERN BOUNDARY

3. Mixed Use Zone

The area has a mix of commercial and residential uses. It is a busy frontage with business centres, petrol stations, eateries and other facilities that will serve the development.

4. Residential Zone

The area has a residential development primarily comrpised of flats about 3 - 5 storeys high. The residential area is developing rapidly and shows the increasing demand for housing in the area.

5. St. Francis Hospital

The site is adjacent to St. Francis Hospital, a facility with extensive medical facilities that include inpatient and outatient care.



ST. FRANCIS COMMUNAL HOSPITAL

6. Kasarani Primary School

The site neighbourhood has various schools in the neighbourhood. Kasarani Primary will be upgraded to accommodate the influx of residents in the area. The design will incorporate a kindergarten in the development.



KASARANI PRIMARY SCHOOL

GENERAL NOTES

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- Engineers' drawings.

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CONSTRUCTION

Approved anti-termite treatment & 1000 aquae polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

inder all walls

STRUCTURAL

. All Black cotton soil to be removed from elow all building and paved surfaces . All reinforced concrete work will be in ccordance with structural drawings.

- Foundation depths to be determined on to S.E approval 4. All walls less than 200mm thick to be
- 5. All adjacent R.C work and masonry walls to

MECHANICAL

- . All Plumbing and Drainage Work to comply with specifications
 2. S.V.P denotes soil vent pipe and to be
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- 4 All underground foul and waste drain pipes shall be of PVC to comply with BS 5255
- 5. All ICs within building area, driveway and parking to have heavy duty double-seal airtigh covers and walls to be 200mm
- 3. Minimum slope in the drain pipes to be 1% Y. No chases for pipes will be allowed in the
- 9. No cutting of concrete without expre approval of the Architect or S.E.
- 10. All testing of pipes must be coordinated
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ELECTRICAL

All conduits must be laid before plastering

PROJECT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

_FLOOR PLANS

SCALE: 1:100

DRAWN BY:

CHECKED BY:

DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING ANDURBAN DEVELOPMENT



FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

CIRCULATION AND ACCESS

The site is currently accessed from the Kasarani - Mwiki Road. The road has high vehicular and pedestrian traffic and serves as the main transportation corridor around the site.

There is an unamed earth road to the South of the site characterized by low human and vehicluear traffic. The design proposed to use the road to the south as the **primary vehiclar access** to site. This is to avoid congestion on Kasarani Mwiki road.

The design also proposes **pedestrian Access to site from Kasarani Mwiki road** and a large **bus stop** to allow residents connect to the public transporattion corridor along Kasarani Mwiki road.



VIEW OF KASARANI - MWIKI ROAD



HIGH TRAFFIC ON KASARANI - MWIKI ROAD

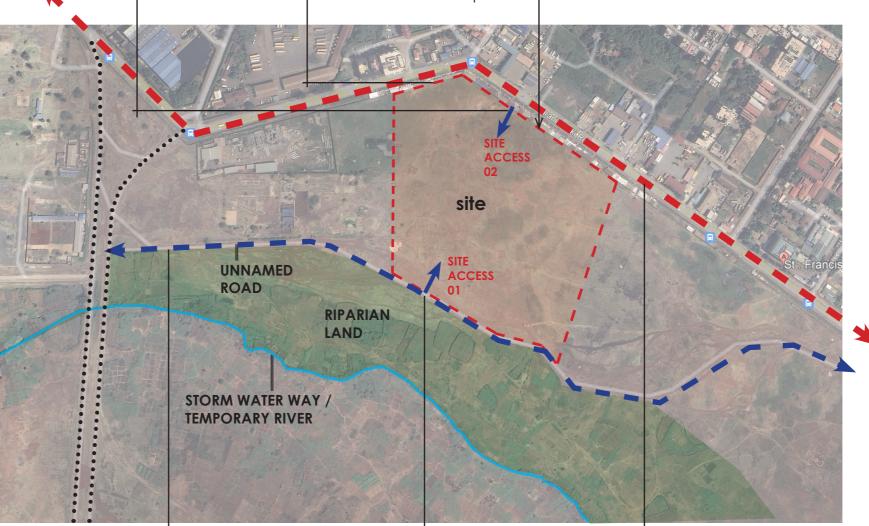
Proposed Acess along Kasarani Mwiki Road,



Proposed Bus Stop to allow residents connect to the public transport corrider along Mwiki Kasarani road



Existing Bus Stop- not adequate for the projected demand for public transport after the development is set up



Road- using this road as access for vehicular traffic to the site will be ideal as it is

Low Vehicular Traffic along Unnamed

experiences low traffic. The road can also be used to access the adjacent lands in the area that are undeveloped

Proposed Acess to the Site

High Vehicular Traffic along Kasarani Mwiki Road- using this road as the only access for vehicular traffic to the site will cause congestion

GENERAL NOTES

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- Engineers' drawings.

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- specified.

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CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided unde all ground floor concrete slab on compacted hardcore to approval.

DPC to be 3ply bituminous felt to be provide under all walls.

STRUCTURAL

- All Black cotton soil to be removed from below all building and paved surfaces
 All reinforced concrete work will be in accordance with structural drawings.
 Foundation depths to be determined on site.
- to S.E approval

 4. All walls less than 200mm thick to be
- reinforced with hoop iron at every alternate course.

 5. All adjacent R.C work and masonry walls to
- be tied with strap irons at every course

MECHANICAL

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- 5. All ICs within building area driveway and parking to have heavy duty,double-seal airtigl covers and walls to be 200mm.
- 6. Minimum slope in the drain pipes to be 1% 7. No chases for pipes will be allowed in the slabs
- 8. Sleeves will be allowed with written approva
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- resolved before works begin
 11. Permanent vents denoted as P.V to be
 provided as shown on plan.

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSEDARBORDA BLO HSINSINGEDEVELOPIGIEÑTIN KARSARRAMIN

CLIENT

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

signature:_ _ _ _ _

DRAWING TITLE:

_FLOOR PLANS

SCALE: 1:100

DRAWN BY:

ML

CHECKED BY:

Name:

Signature:___

DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSINGANDURBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URE



FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

SITE SERVICES & UTILITIES

Storm Water Drainage

The site is serviced by a storm water natural drain / temporary river to the South of the site. The design seeks to channel all storm water to the south of the site.



VIEW OF STORM WATER DRAIN SOUTH OF THE SITE

To the North, a storm water drain exists along Mwiki Kasarani Road. This drain requires maintenace works to ensure it remains effective



VIEW OF STORM WATER DRAIN ALONG MWIKI -KASARANI ROAD

Power

The site is serviced by power along Kasarani-Mwiki Road. The demand for power in the development may demand that the development installs a transformer on site.



VIEW OF POWER LINE ALONG THE SITE BOUNDARY

Sewer

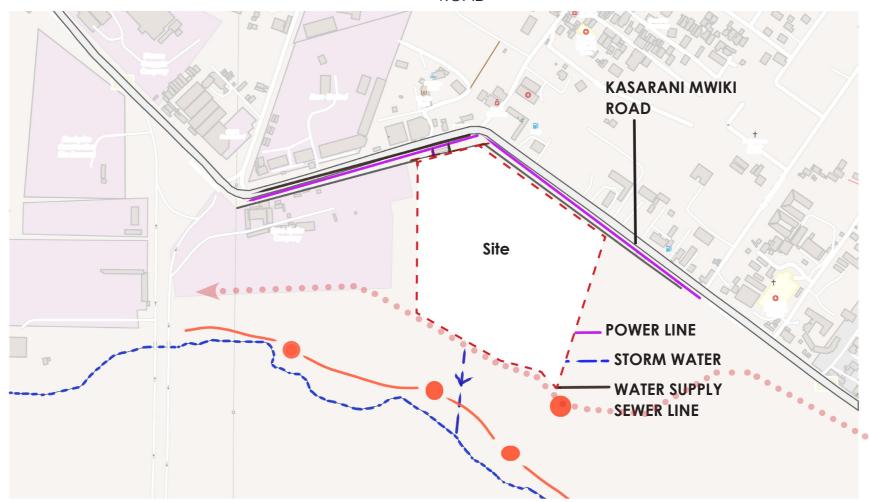
There is a sewer line South of the site and along the natural storm drain South of the site. The design will direct sewere to this sewer line during development.

Water

The site has access to water from Nairobi City Council along Mwiki Kasarani road. The design will consider having storage for water to ensure constant supply in the development.



EXPOSED WATER SUPPLY PIPE ALONG MWIKI KASARANI **ROAD**



UTILITIES NEAR THE SITE

GENERAL NOTES

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CONSTRUCTION

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STRUCTURAL

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- 4. All underground foul and waste drain pines shall be of PVC to comply with BS 5255
- 5. All ICs within building area, driveway and parking to have heavy duty double-seal girtial covers and walls to be 200mm.
- 3. Minimum slope in the drain pipes to be 1% No chases for pipes will be allowed in the
- 8. Sleeves will be allowed with written approva
- from S.E. 9. No cutting of concrete without express approval of the Architect or S.E
- 10. All testing of pipes must be coordinated with electrical and any conflicts must be
- 11. Permanent vents denoted as P.V to be provided as shown on plan.

resolved before works begin

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT I KASARANI

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

_FLOOR PLANS

SCALE: 1:100

DRAWN BY:

CHECKED BY:

DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING ANDURBAN DEVELOPMENT



FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

DESIGN AND PLANNING CONSIDERATIONS

01. Density

The design adopts high density planning with blocks going up to 15 floors. The target is to have at least 10 000 units of 20 acres of land. Each acre has an average of three residential blocks.

With high density planning, it is essential that circulation and site services are well planned.

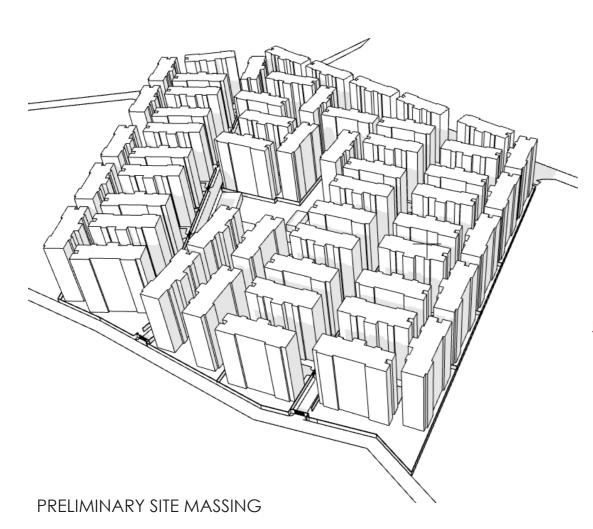
The desction below shows a summary of critical project information.

No. of floors per block: 15 Floors (G+14)

No. of units per block: **181 Units** No. of units per acre: **543 Units**

No. of blocks : **56 blocks** No. of units: **10134 Units**

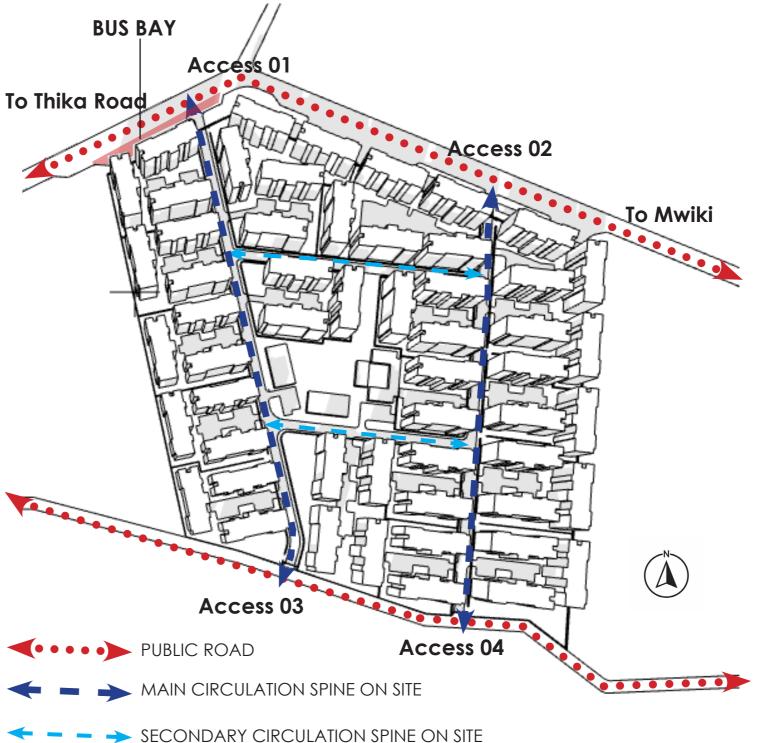
Ground Coverage 39%



2. Access and Ciruclation

The masterplan design proposes to have **four (4) access points** to the site. Two access points will be from Mwiki Kasarani Road while the other two will be from the unnamed road South of the site. This will ensure that residents can access the site from various points, easing congestion on the site and along the busy Mwiki Kasarani road.

Internally, circulation within the site happens along two major axis or ciculation spines traversing from the Northern end to the Southern end of the site. These primary routes are supported by Secondary roads traversing the site from West to East. Each cluster has a controlled access with parking for the blocks in the cluster.



GENERAL NOTES

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CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

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ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT I KASARANI

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DDAWING TITLE

DRAWING TITLE:

_FLOOR PLANS

SCALE: 1:100

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MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

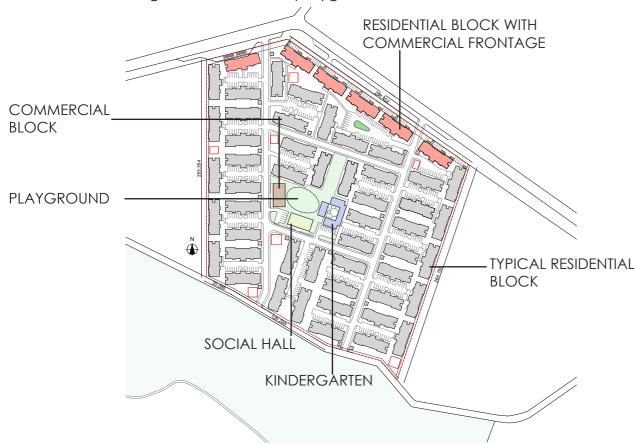
STATE DEPARTMENT FOR HOUSING & URB DEVELOPMENT



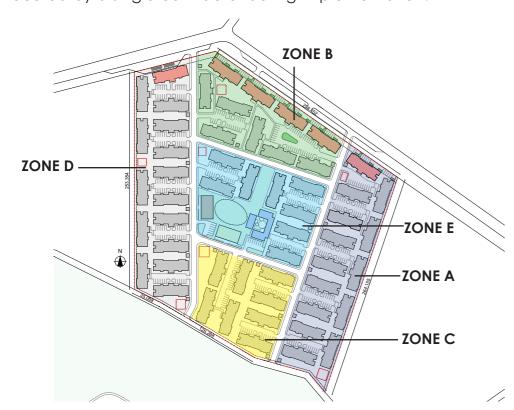
FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

3. Zoning

Blocks abutting Kasarani Mwiki road have commercial spaces on ground level on the wing facing the road. The ground level wing facing the development has residential spaces. The incoporation of commercial spaces responds to the activities on the commercial frontage. The project also has a community zone that has a kindergarten, social hall, playgorund and commercial block.

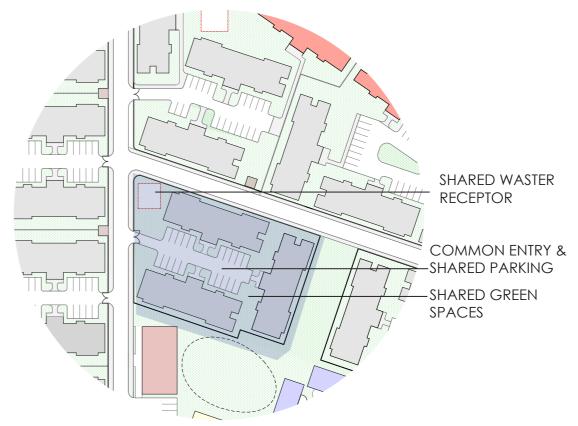


The site is also organized into zones as illustrated below. Each zone is designed to be executed by a single contractor during implementation.

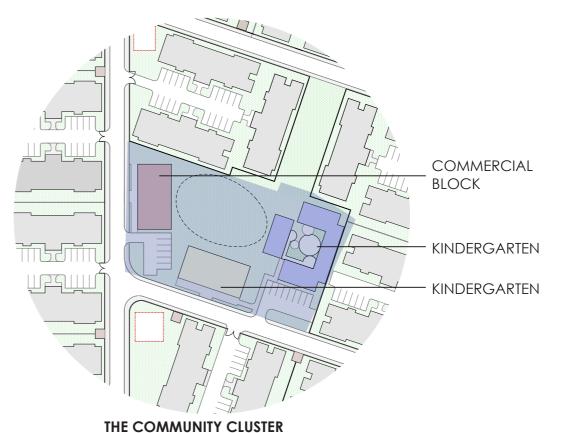


4. Cluster Organization

The blocks are organized into clusters with a common access, parking and shared green spaces. Each cluster has three (3) no. residential blocks. The sixth cluster in the development is the community cluster which compisses of the nursery school, social hall, parking and playground. Cluster organization enhances community and security within the development.



TYPICAL RESIDENTIAL CLUSTER



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PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT II KASARANI

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

_FLOOR PLANS

SCALE: 1:100

DRAWN BY:

CHECKED BY:

DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING ANDURBAN DEVELOPMENT



FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

5. Building Orientation

The buildings are primarily oriented on site with their long axis facing North and South. Additionally, the buildings have minimal openings exposed to the East and West directions. This orientation is intended to ensure the buildings are passively thermal regulated and remain within the thermal comfort zone.

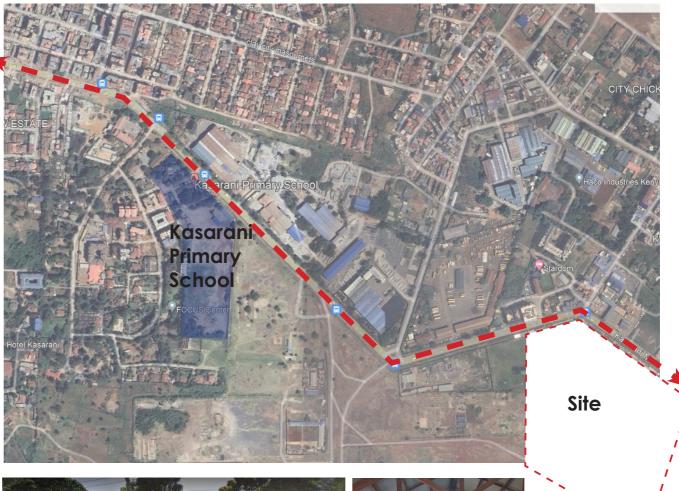


6. Social Amenities

Besides housing, the project has the following ammenities:

- Kindergarten
- Commercial building
- Social Hall

The project will also require a primary school to serve the population. Notably, **Kasarani Primary School** is located close to the site. Currently, the school sits on **1.9 Ha (4.7 acres)** of land. Only 1/3 of the property is developed, There is need to expand Kasarani primary school to have additional facilities that can serve the increased population in the area. The map and images below show the current state of Kasarani Primary School.







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PROPOSED SOCIAL HOUSING DEVELOPMENT IN KASARANI

LIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

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DRAWING TITLE:

_FLOOR PLANS

SCALE: 1:100

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Signature: _ _ _ Date: _ _

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MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

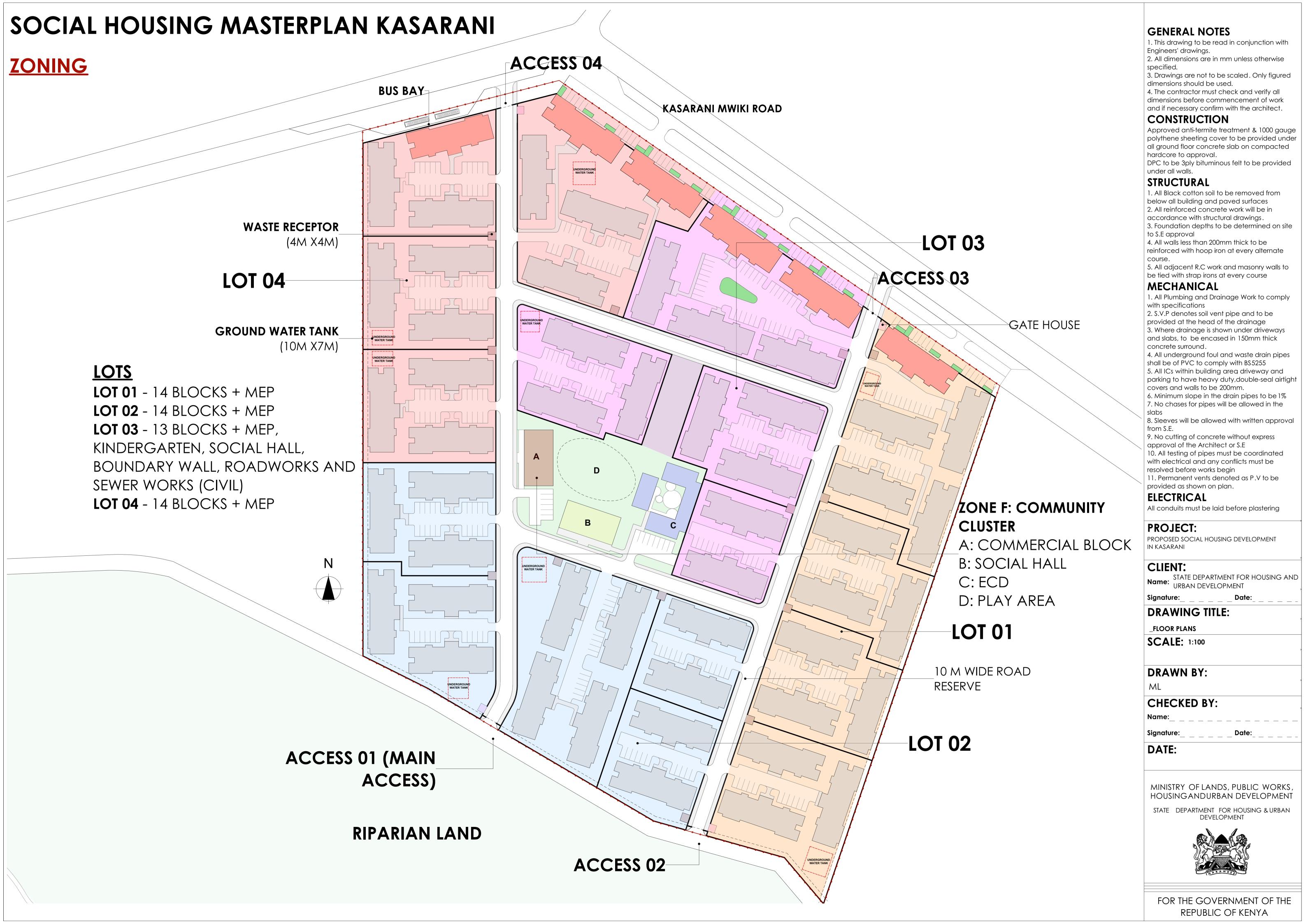
STATE DEPARTMENT FOR HOUSING & URB DEVELOPMENT

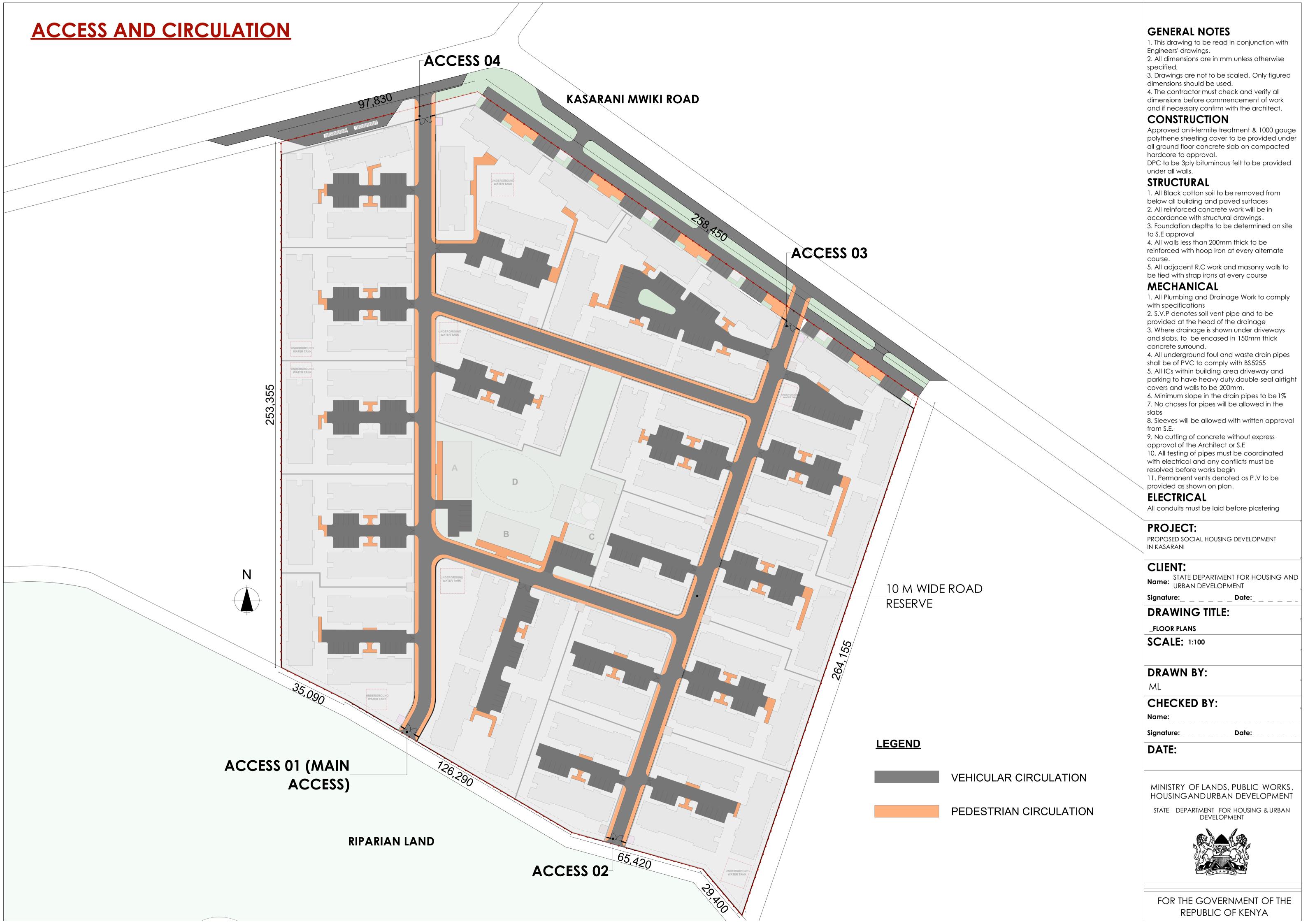


FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA



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CLIENT:

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DRAWING TITLE:

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SCALE: 1:100

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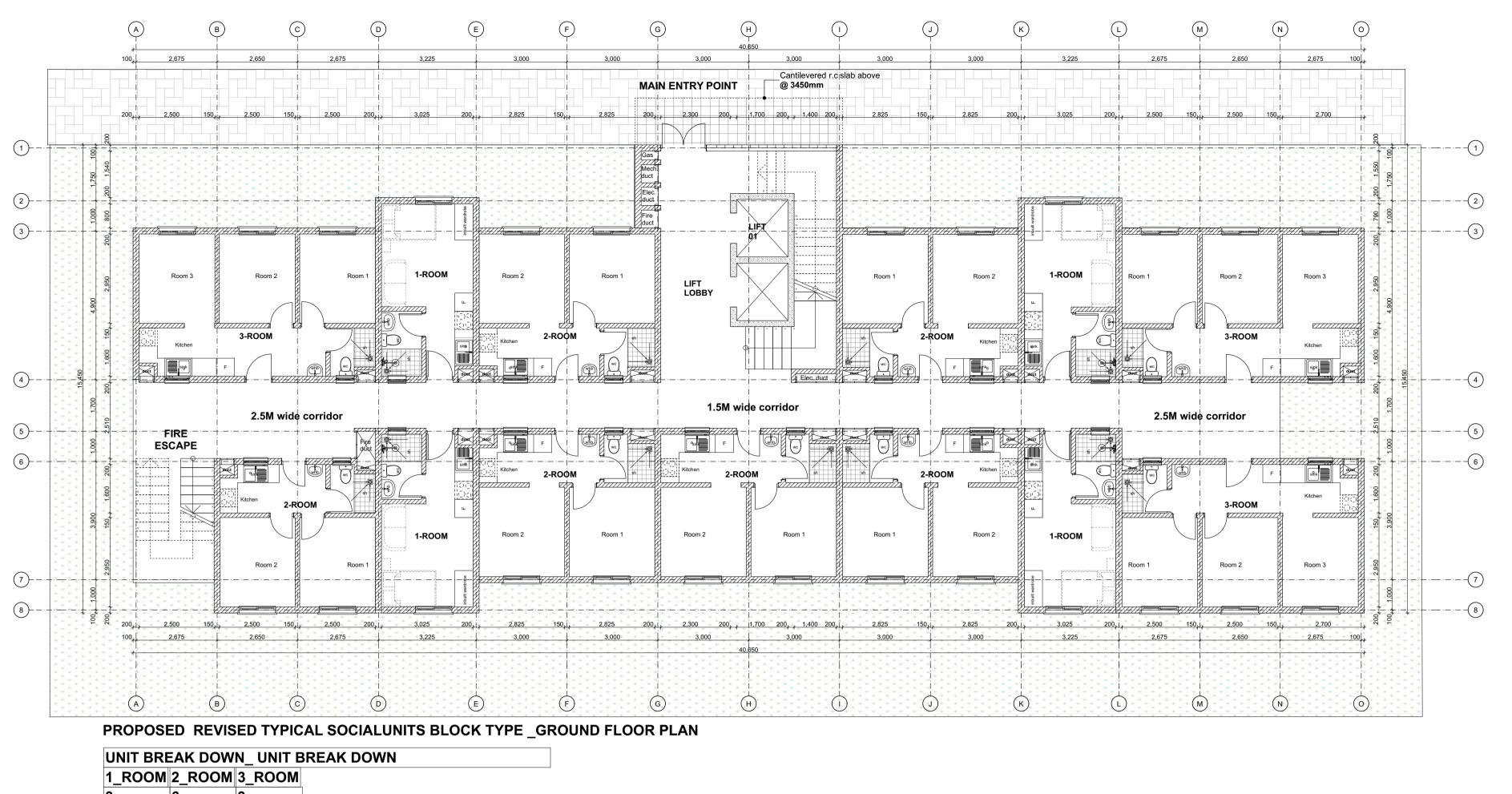
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DATE:

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING ANDURBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT







PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 1ST, 10TH & 13TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN 1_ROOM||2_ROOM||3_ROOM|

SOCIAL HOUSING TYPOLOGY A [G+14]

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PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

STATE DEPARTMENT FOR HOUSING AND

DRAWING TITLE:

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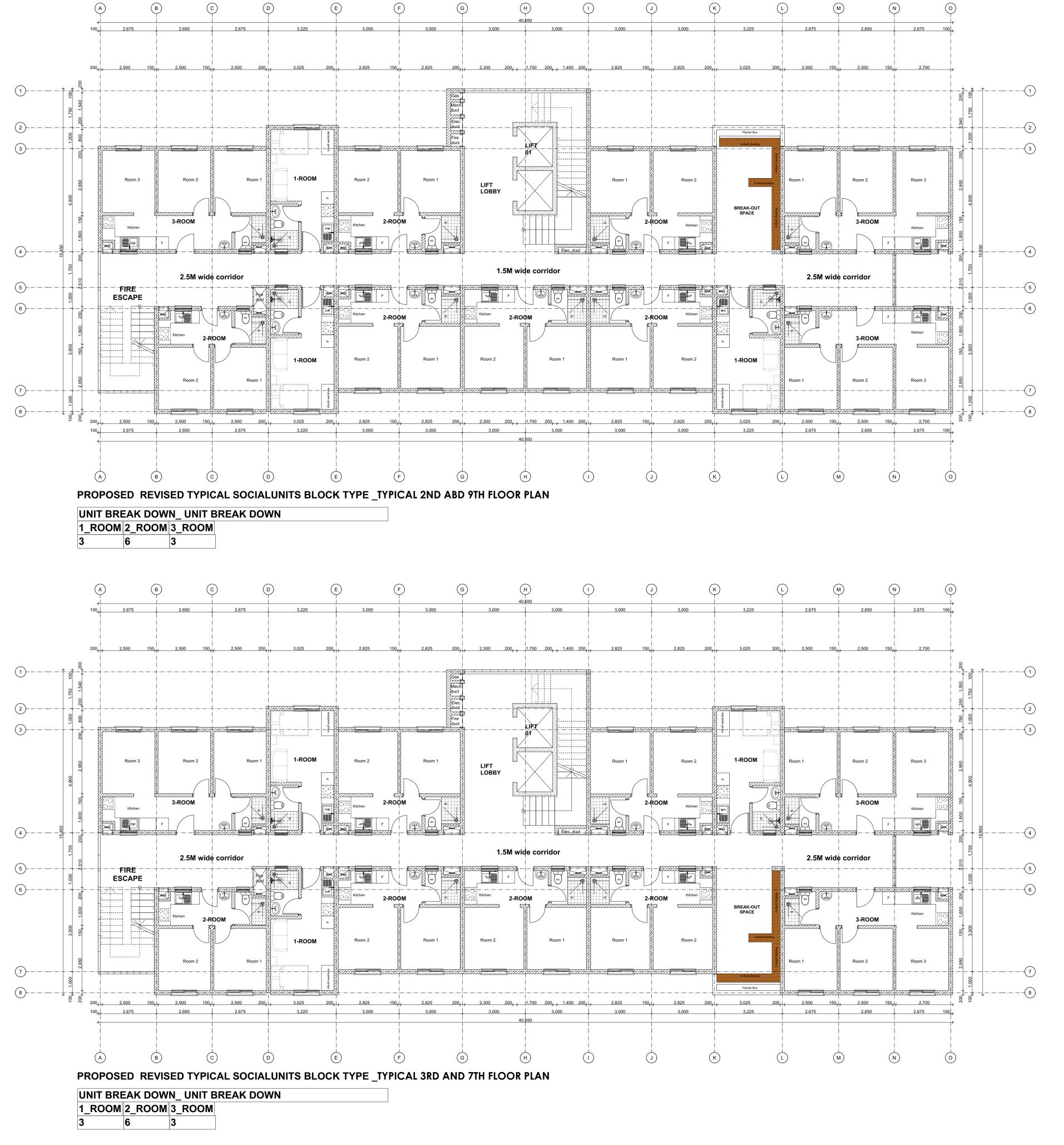
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MINISTRY OF LANDS, PUBLIC WORKS HOUSINGANDURBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN





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Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

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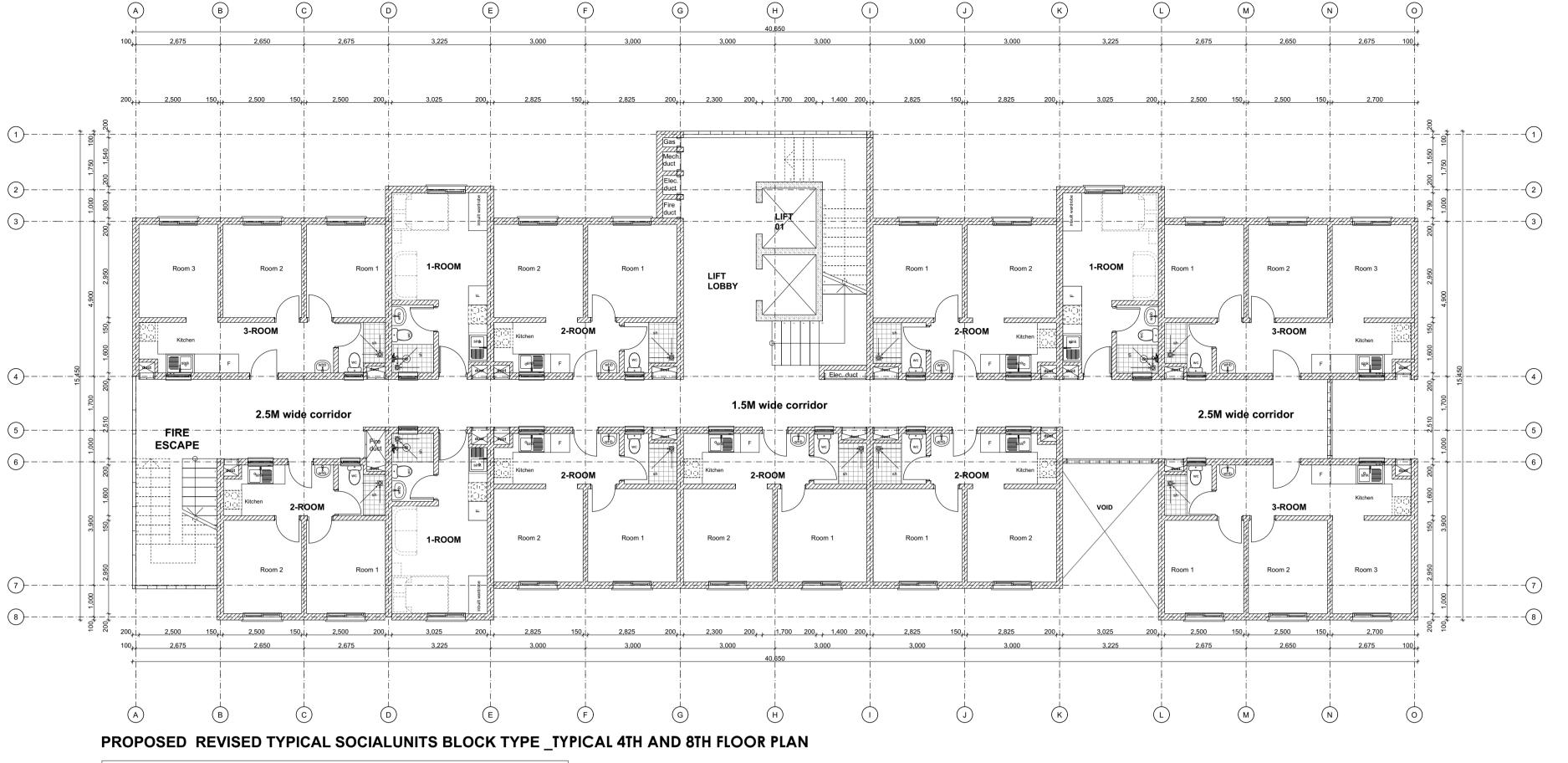
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MINISTRY OF LANDS, PUBLIC WORKS, HOUSING ANDURBAN DEVELOPMENT

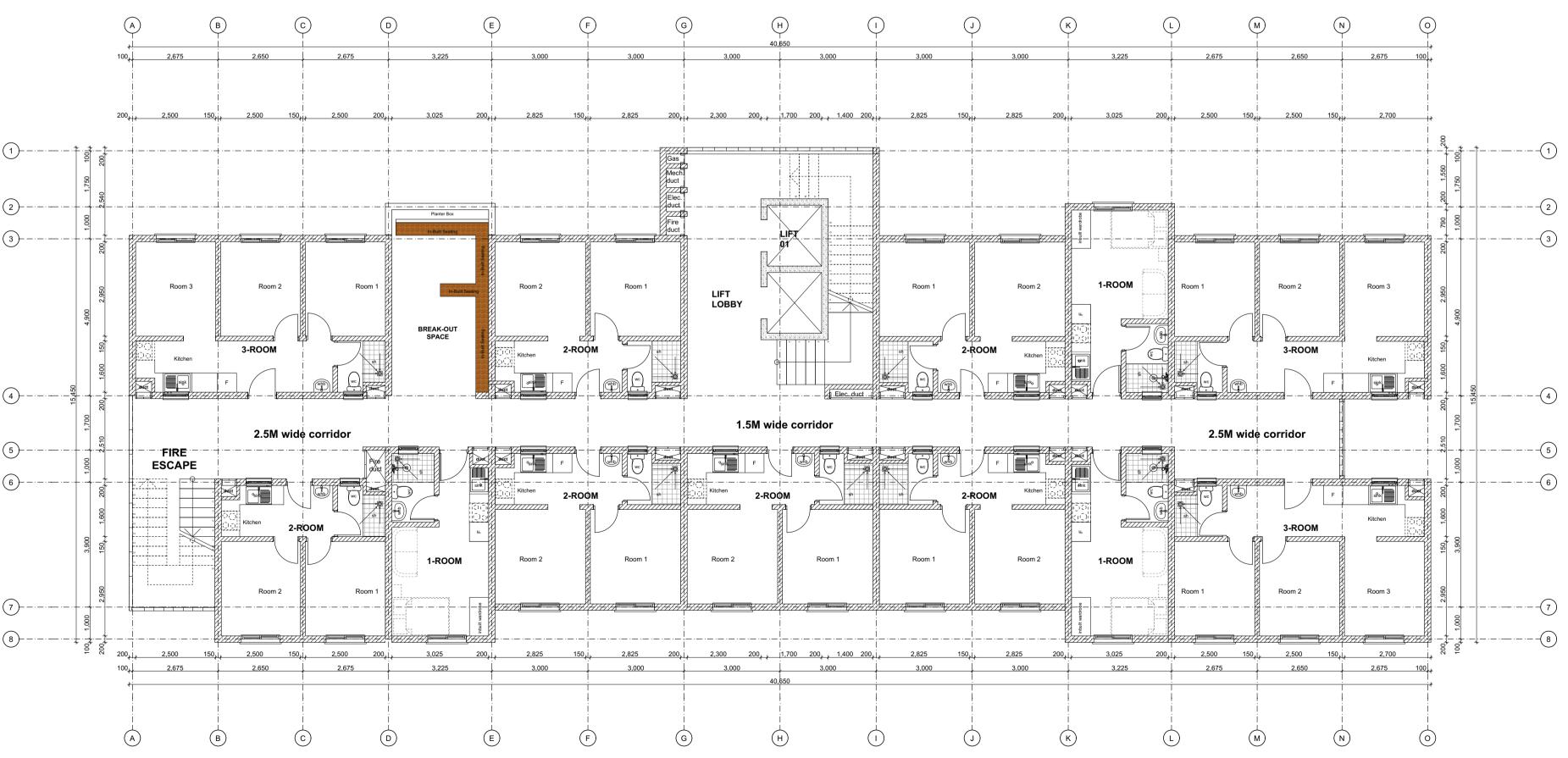
STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM



PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 5TH AND 11TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1 POOM 2 POOM 3 POOM

1_ROOM 2_ROOM 3_ROOM

SOCIAL HOUSING TYPOLOGY A [G+14]

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PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

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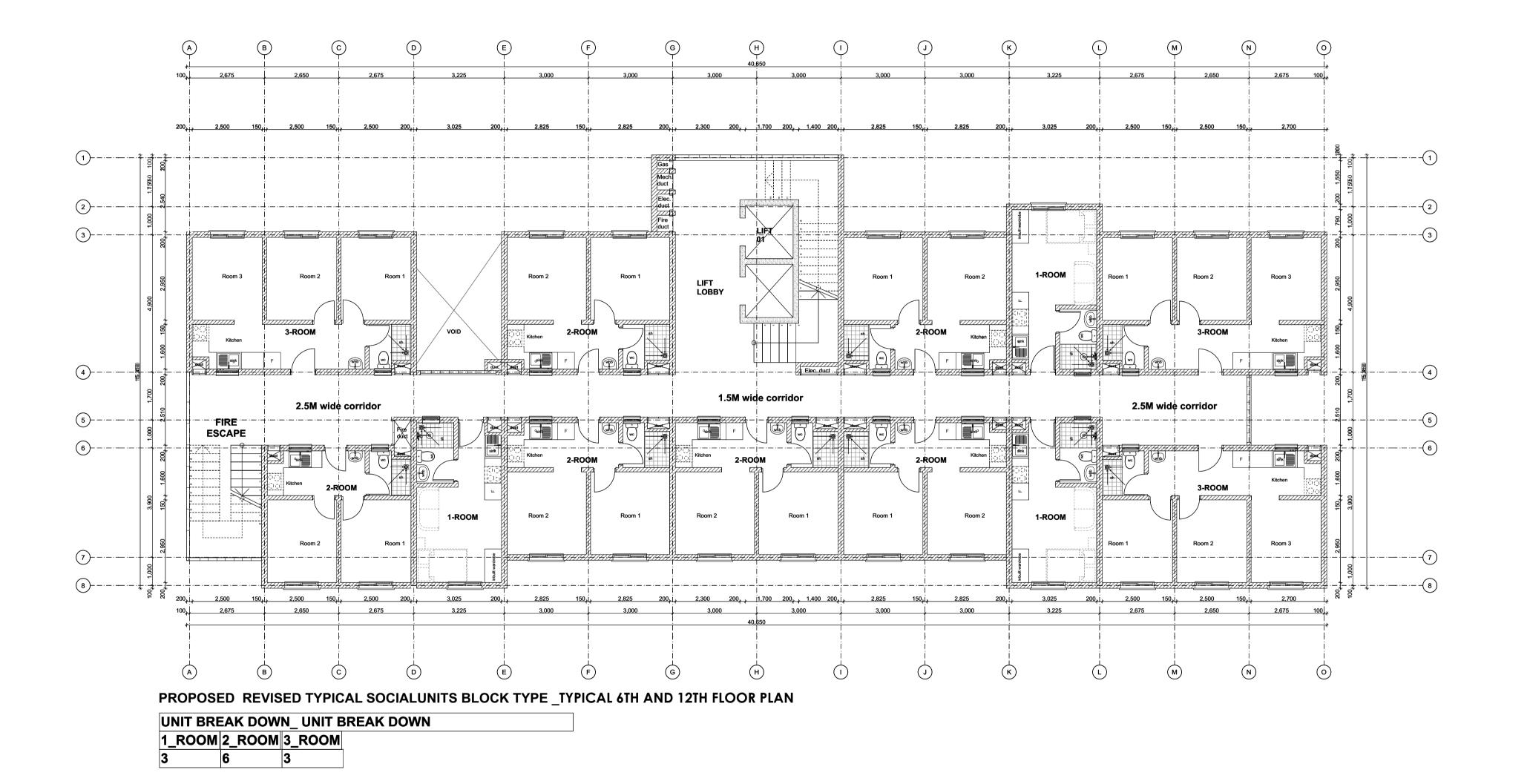
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MINISTRY OF LANDS, PUBLIC WORKS, HOUSING ANDURBAN DEVELOPMENT

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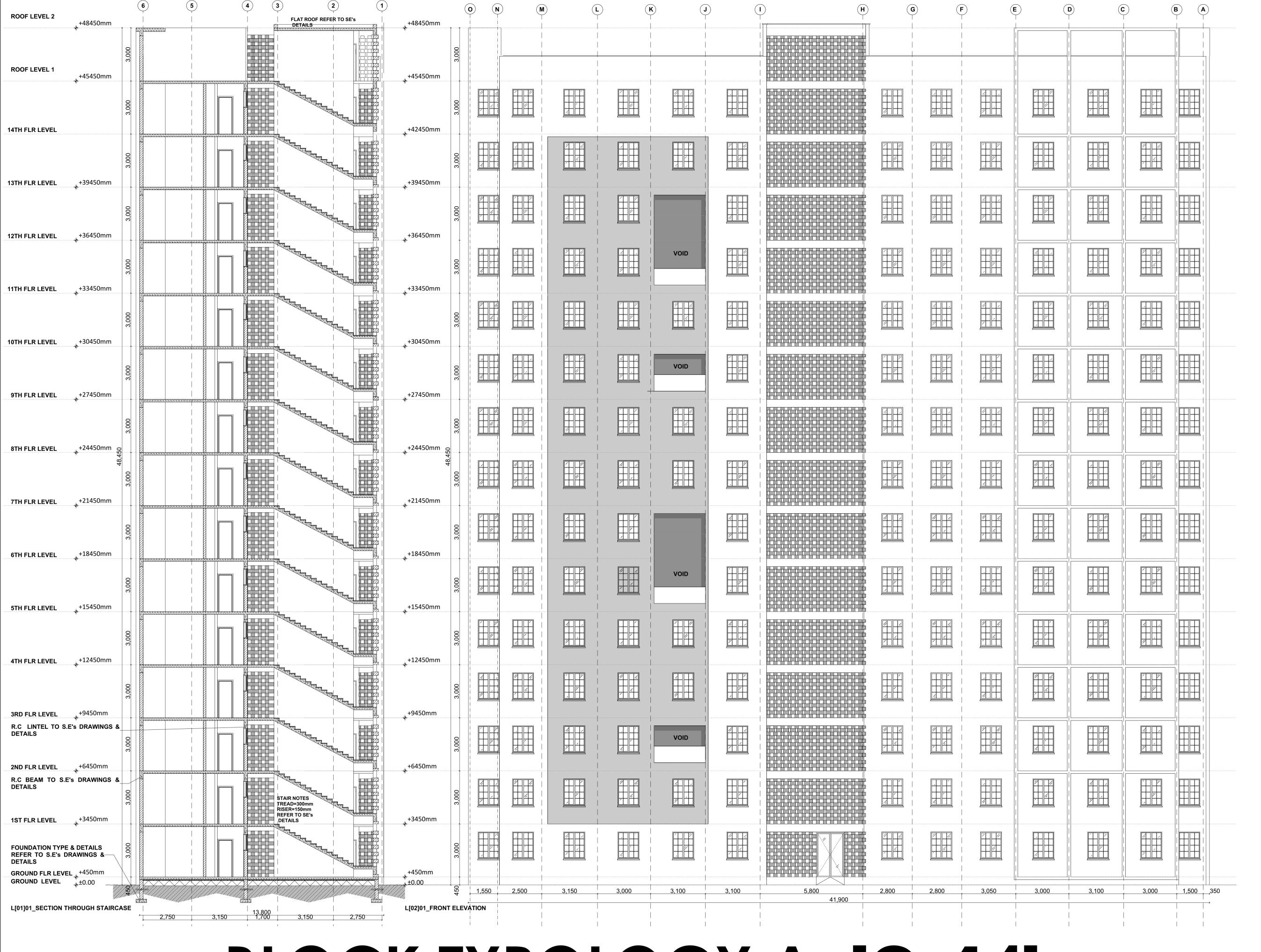
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BLOCK TYPOLOGY A [G+14]

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PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

BLOCK A _SECTION & ELEVATION

SCALE: 1:100

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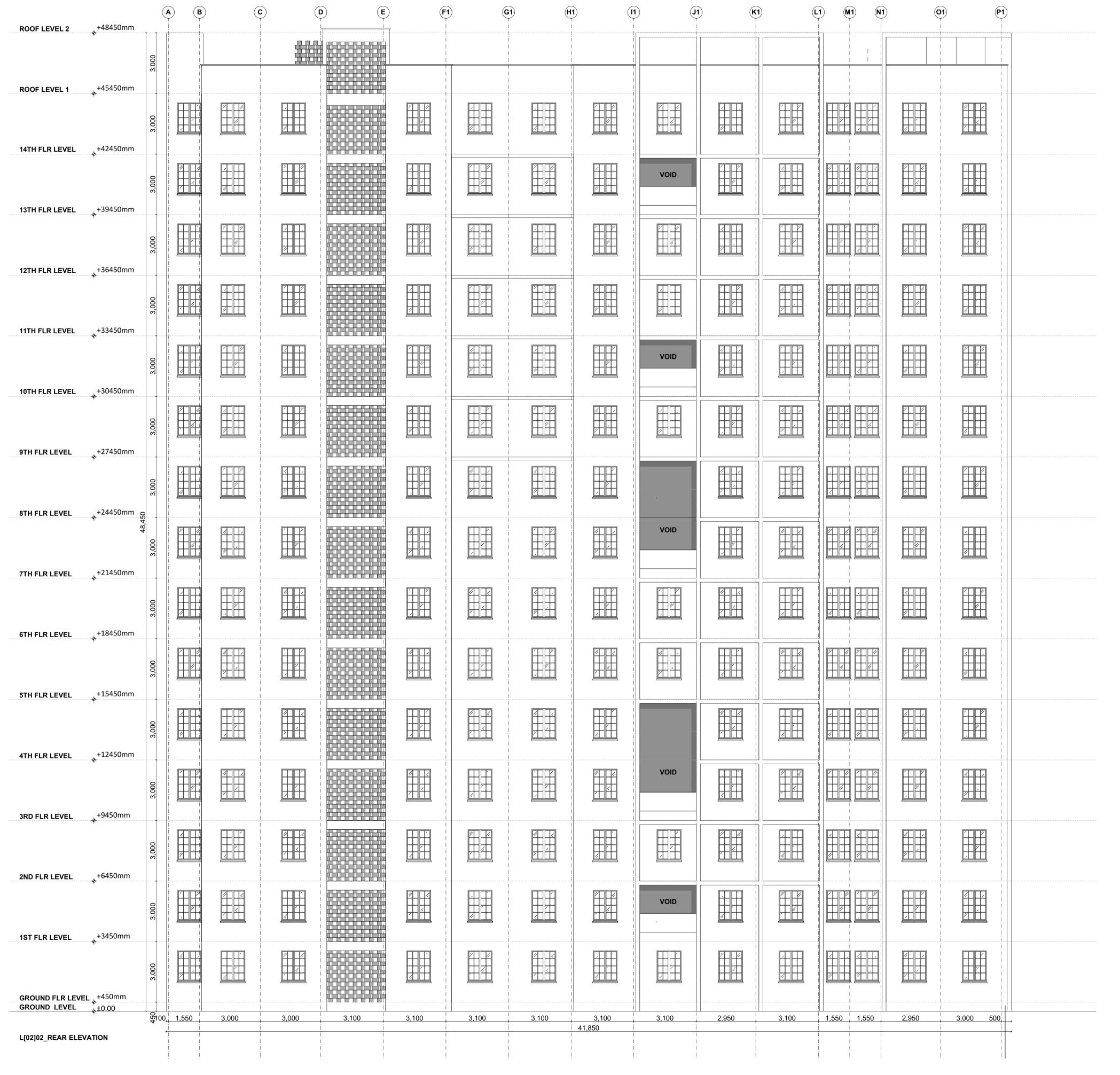
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HOUSINGANDURBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING & URBAN

MINISTRY OF LANDS, PUBLIC WORKS







BLOCK TYPOLOGY A [G+14]

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STRUCTURAL

- below all building and paved surfaces 2. All reinforced concrete work will be in accordance with structural drawings. 3. Foundation depths to be determined on site
- to S.E approval 4. All walls less than 200mm thick to be reinforced with hoop iron at every alternate

5. All adjacent R.C work and masonry walls to be tied with strap irons at every course

MECHANICAL

1. All Plumbing and Drainage Work to comply with specifications 2. S.V.P denotes soil vent pipe and to be

provided at the head of the drainage 3. Where drainage is shown under driveways and slabs, to be encased in 150mm thick concrete surround.

- 4. All underground foul and waste drain pipes shall be of PVC to comply with BS 5255 5. All ICs within building area, driveway and parking to have heavy duty, double-seal airtight
- covers and walls to be 200mm. 6. Minimum slope in the drain pipes to be 1% 7. No chases for pipes will be allowed in the
- 8. Sleeves will be allowed with written approval
- 9. No cutting of concrete without express
- approval of the Architect or S.E 10. All testing of pipes must be coordinated
- with electrical and any conflicts must be resolved before works begin
- 11. Permanent vents denoted as P.V to be provided as shown on plan.

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

STATE DEPARTMENT FOR HOUSING AND Name: URBAN DEVELOPMENT

DRAWING TITLE:

BLOCK A _SECTION & ELEVATION

SCALE: 1:100

DRAWN BY:

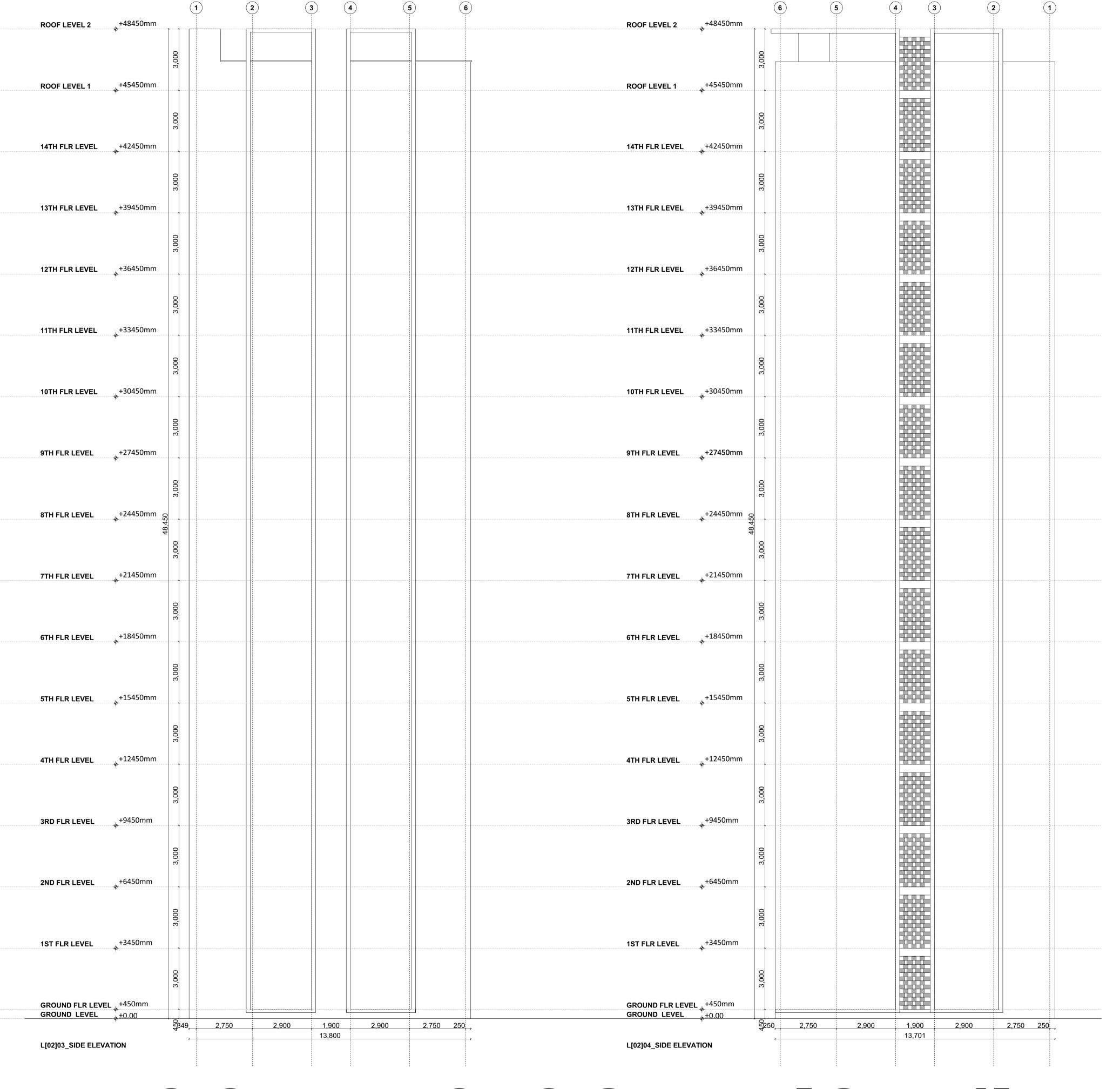
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MINISTRY OF LANDS, PUBLIC WORKS HOUSINGANDURBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





BLOCK TYPOLOGY A [G+14]

GENERAL NOTES

- 1. This drawing to be read in conjunction with Engineers' drawings.
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- specified.

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- dimensions should be used.

 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

DPC to be 3ply bituminous felt to be provided

under all walls. STRUCTURAL

- All Black cotton soil to be removed from below all building and paved surfaces
 All reinforced concrete work will be in accordance with structural drawings.
 Foundation depths to be determined on site to S.E approval
- 4. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.
- 5. All adjacent R.C work and masonry walls to be tied with strap irons at every course

MECHANICAL

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- and slabs, to be encased in 150mm thick concrete surround.4. All underground foul and waste drain pipes
- shall be of PVC to comply with BS 5255
 5. All ICs within building area, driveway and parking to have heavy duty, double-seal airtight covers and walls to be 200mm.
- 6. Minimum slope in the drain pipes to be 1%7. No chases for pipes will be allowed in the slabs
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ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

BLOCK A _SECTION & ELEVATION

SCALE: 1:100

DRAWN BY:

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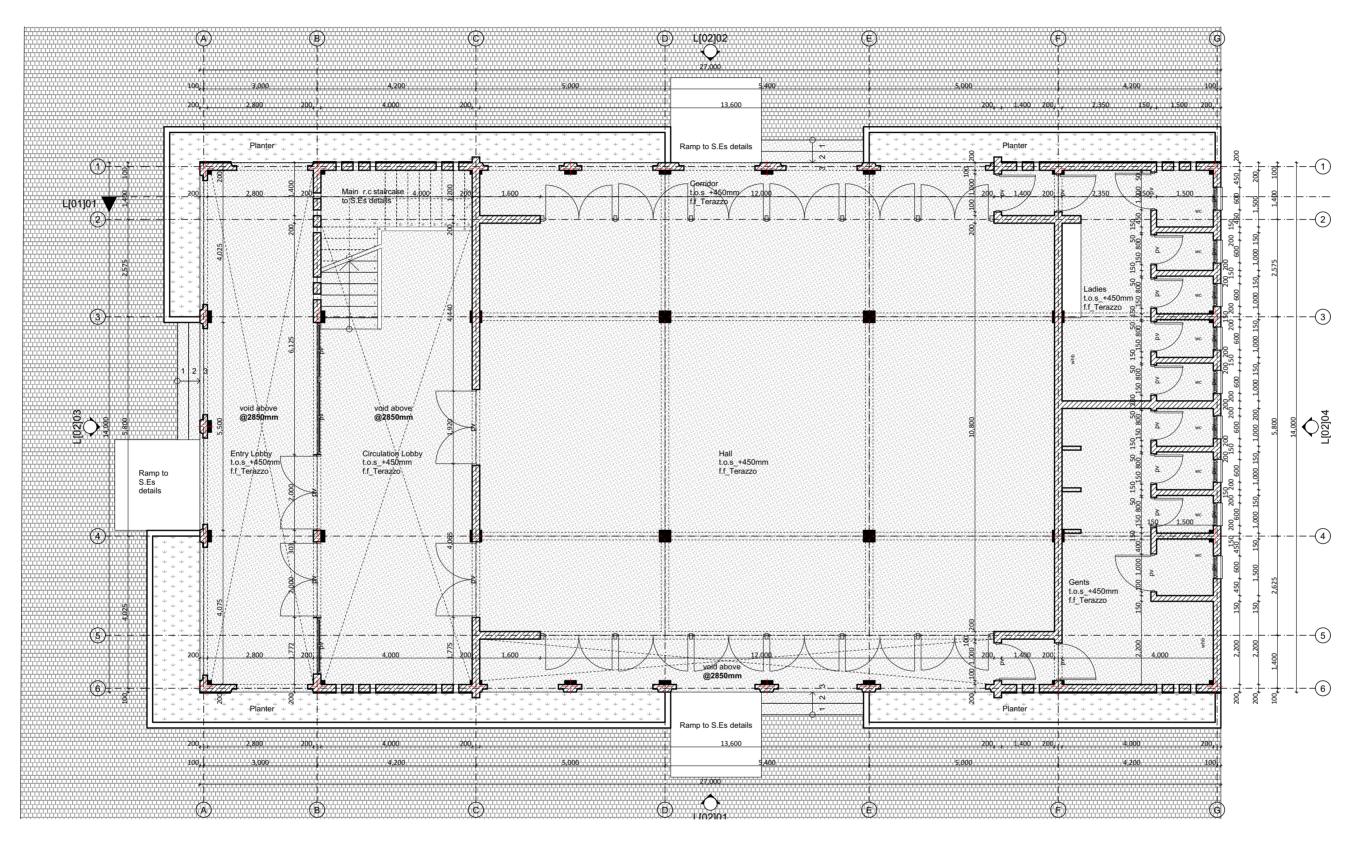
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING ANDURBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT



Commercial Block

COMMUNITY CENTRE



L[--]01k_GROUND FLOOR PLAN Scale: 1_100

- 1. This drawing to be read in conjunction with Engineers' drawings.
- 2. All dimensions are in mm unless otherwise specified.
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- 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

DRC to be 300 bit uniques felt to be provided.

DPC to be 3ply bituminous felt to be provided under all walls.

STRUCTURAL

- All Black cotton soil to be removed from below all building and paved surfaces
 All reinforced concrete work will be in accordance with structural drawings.
 Foundation depths to be determined on site
- to S.E approval
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be tied with strap irons at every course

MECHANICAL

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- with electrical and any conflicts must be resolved before works begin
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- provided as shown on plan.

 ELECTRICAL

All conduits must be laid before plastering

DDO IFOT.

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature: _ _ _ _ Date: _ _ _ _

DRAWING TITLE:

COMMUNITY CENTRE GROUND FLOOR PLAN

SCALE:

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DRAWN BY:

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CHECKED BY:

Signature:

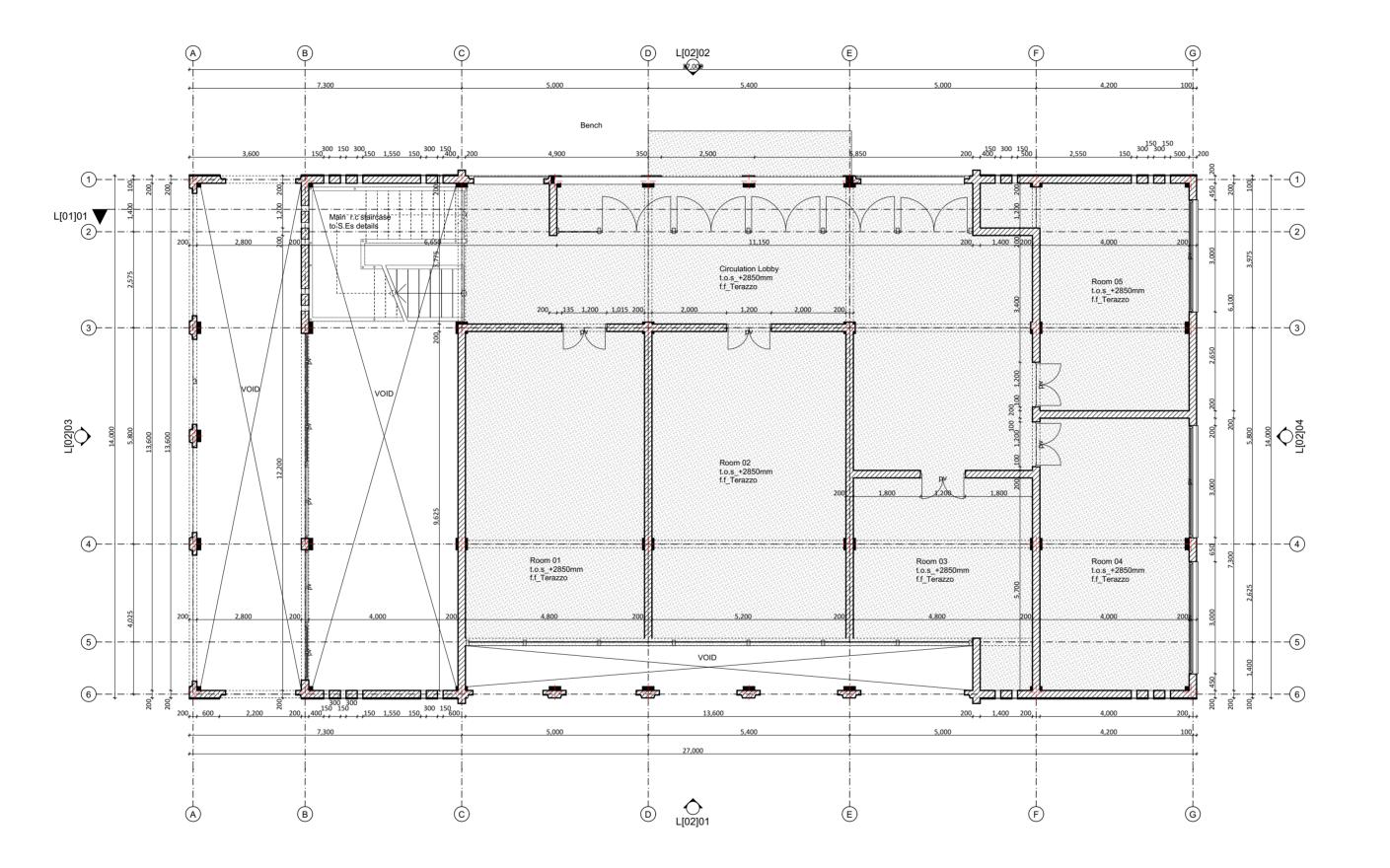
DATE:

MAY 2023

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





L[--]02k_FIRST FLOOR PLAN Scale: 1_100

- 1. This drawing to be read in conjunction with Engineers' drawings.
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CONSTRUCTION

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DPC to be 3ply bituminous felt to be provided under all walls.

STRUCTURAL

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MECHANICAL

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- with electrical and any conflicts must be resolved before works begin 11. Permanent vents denoted as P.V to be
- 11. Permanent vents denoted as P.V t provided as shown on plan.

ELECTRICAL All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

|--|

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature: _____ Date: _____

DRAWING TITLE:

COMMUNITY CENTRE FIRST FLOOR PLAN

SCALE:

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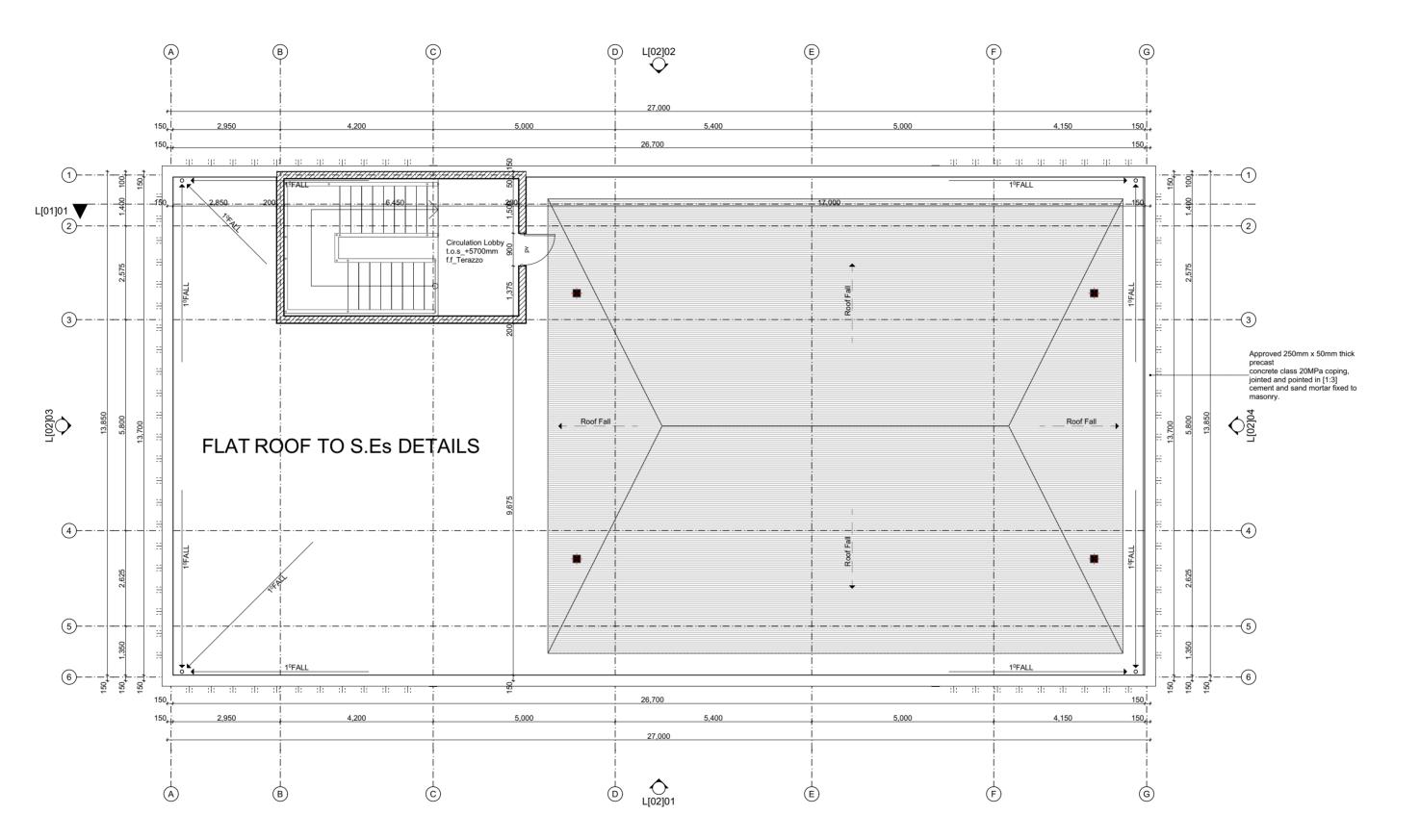
DATE:

MAY 2023

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





L[--]03k_ROOF PLAN Scale: 1_100

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CONSTRUCTION

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DRC to be 300 bit uniques felt to be provided.

DPC to be 3ply bituminous felt to be provided under all walls.

STRUCTURAL

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ELECTRICAL All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature: _ _ _ _ Date: _ _ _ _ _

DRAWING TITLE:

COMMUNITY CENTRE ROOF PLAN

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Signature: _ _ _ _ Date: _ _ _

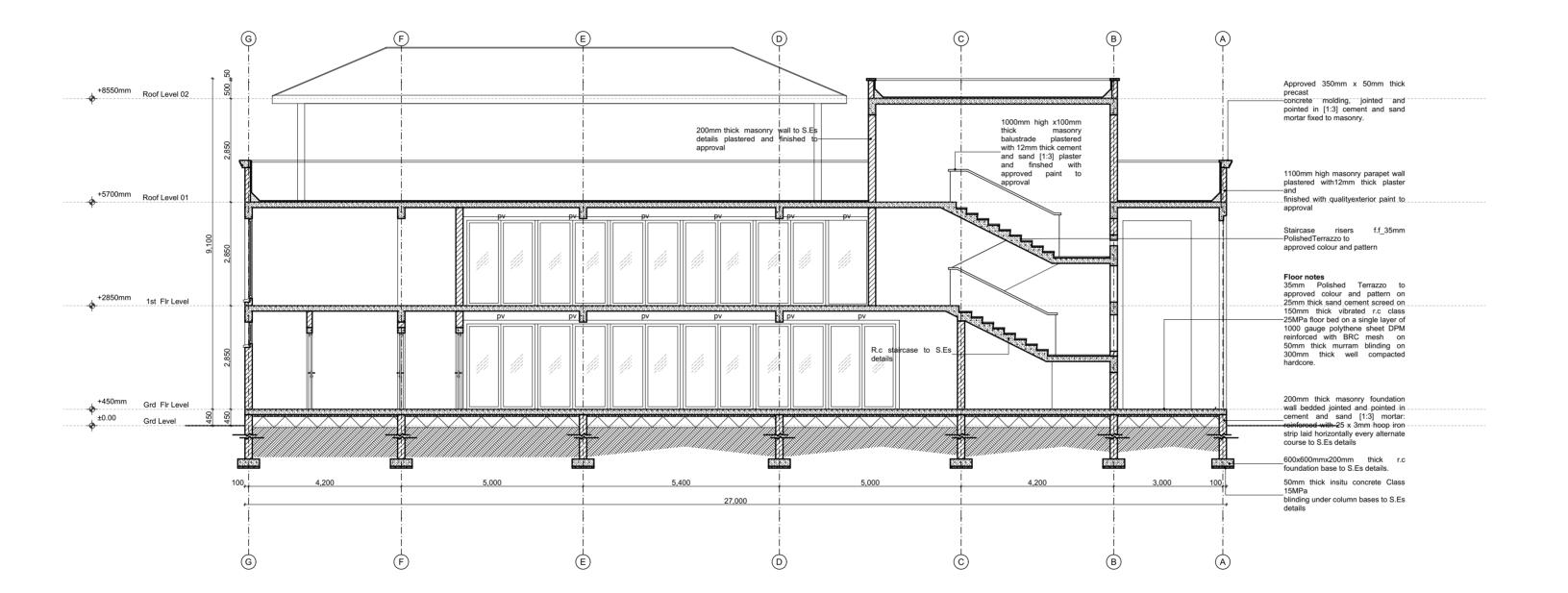
DATE:

MAY 2023

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





L[01]01_Section Through Staircase Scale: 1_100

- 1. This drawing to be read in conjunction with Engineers' drawings.
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CONSTRUCTION

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STRUCTURAL

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ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature: _ _ _ _ Date: _ _ _ _ _

DRAWING TITLE:

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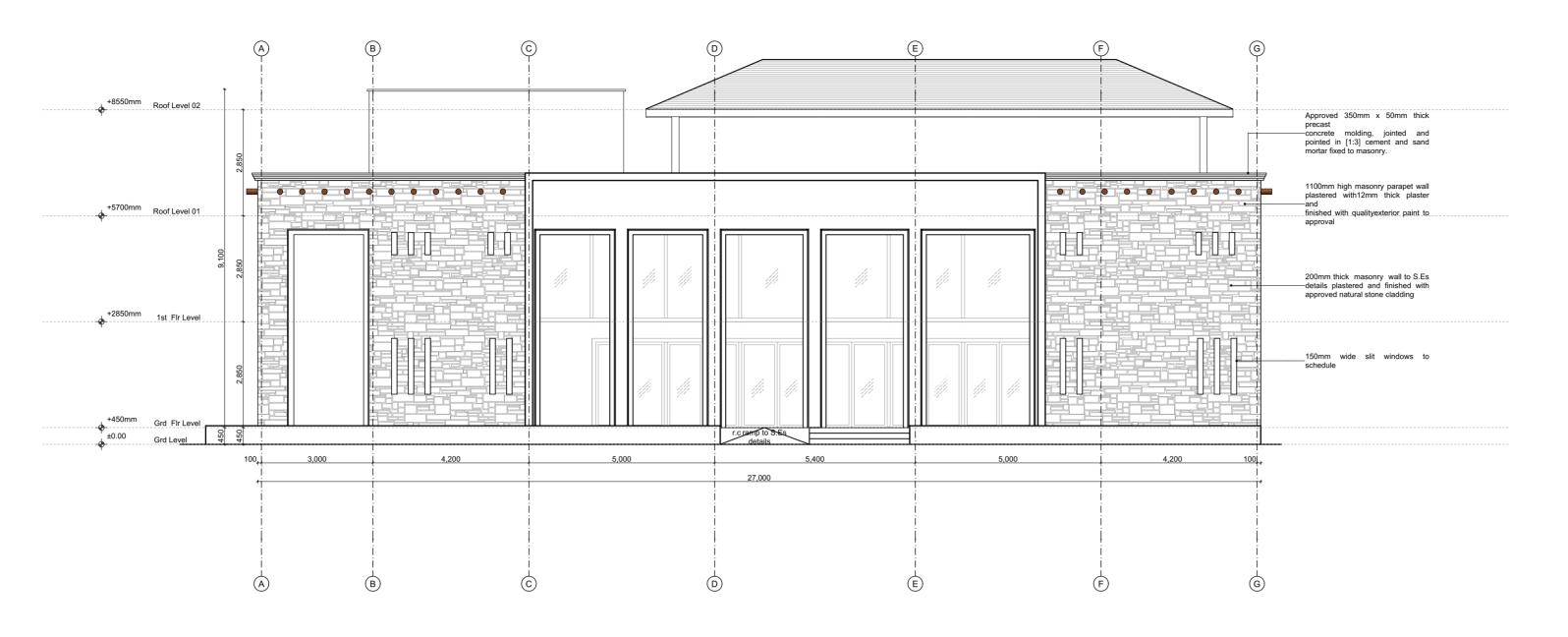
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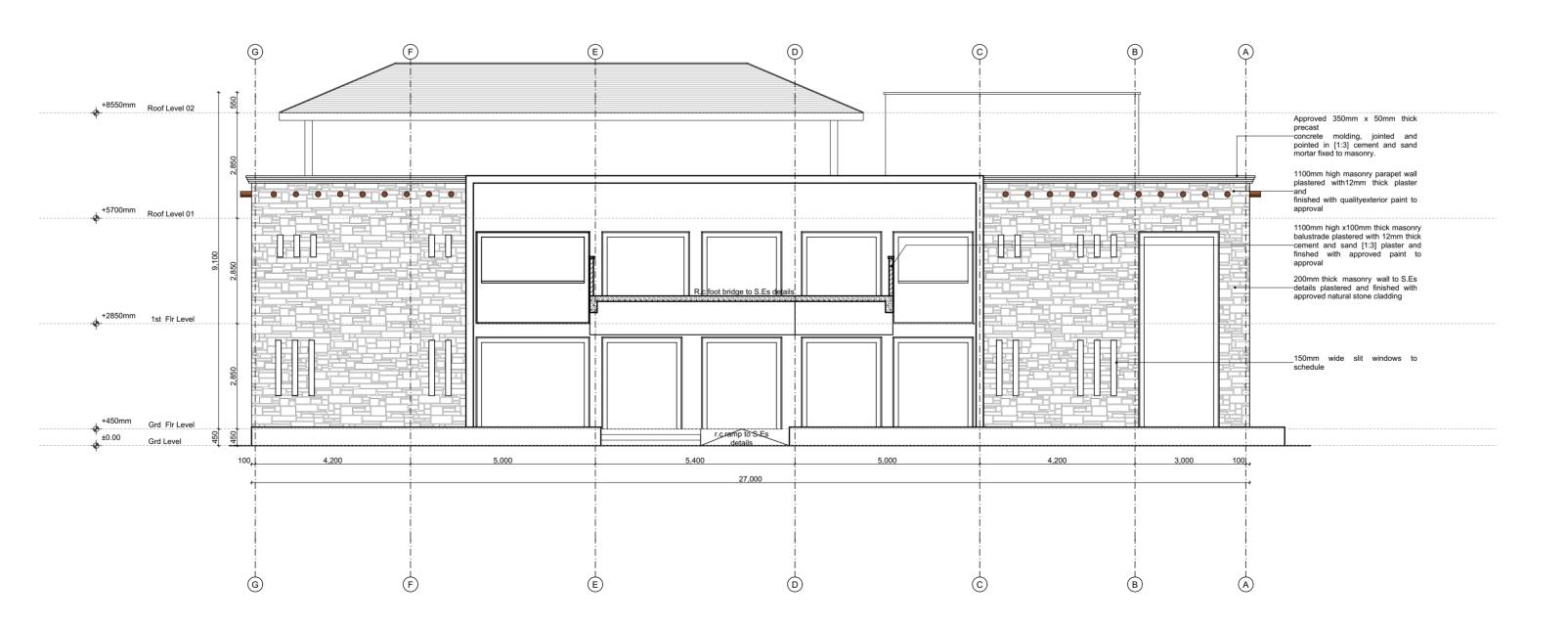
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





L[02]01_Elevation 01 Scale: 1_100



L[02]02_Elevation 02 Scale: 1_100

GENERAL NOTES

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- dimensions should be used.

 4. The contractor must check and verify all dimensions before commencement of work

and if necessary confirm with the architect.

CONSTRUCTION

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ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature: ____ Date: ____

DRAWING TITLE:

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COMMUNITY CENTRE ELEVATIONS 01

SCALE:

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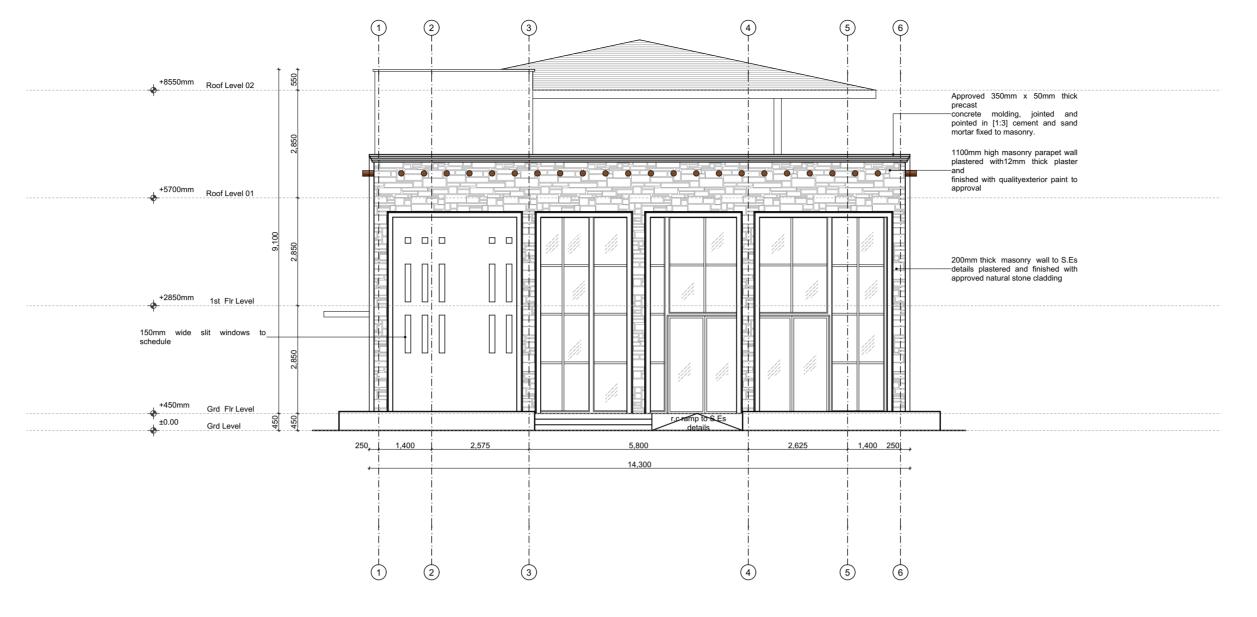
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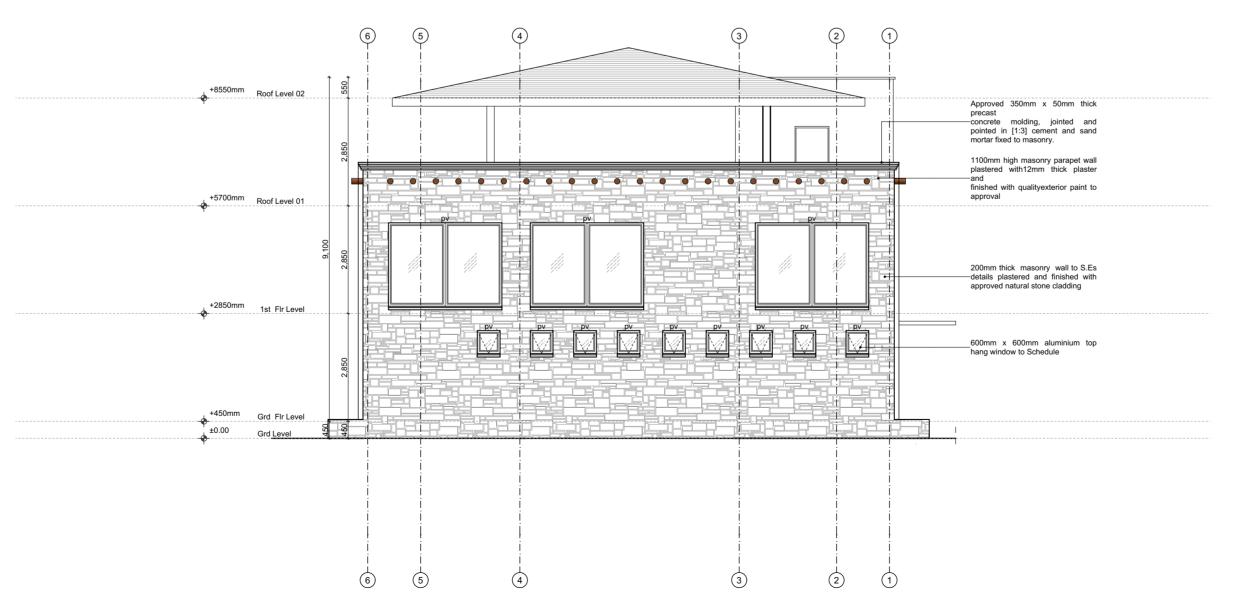
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





L[02]03_Elevation 03 Scale: 1_100



L[02]04_Elevation 04 Scale: 1_100

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CONSTRUCTION

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ELECTRICAL All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT Date:

Signature:_

DRAWING TITLE:

COMMUNITY CENTRE ELEVATION 02

SCALE:

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CHECKED BY:

DATE:

MAY 2023

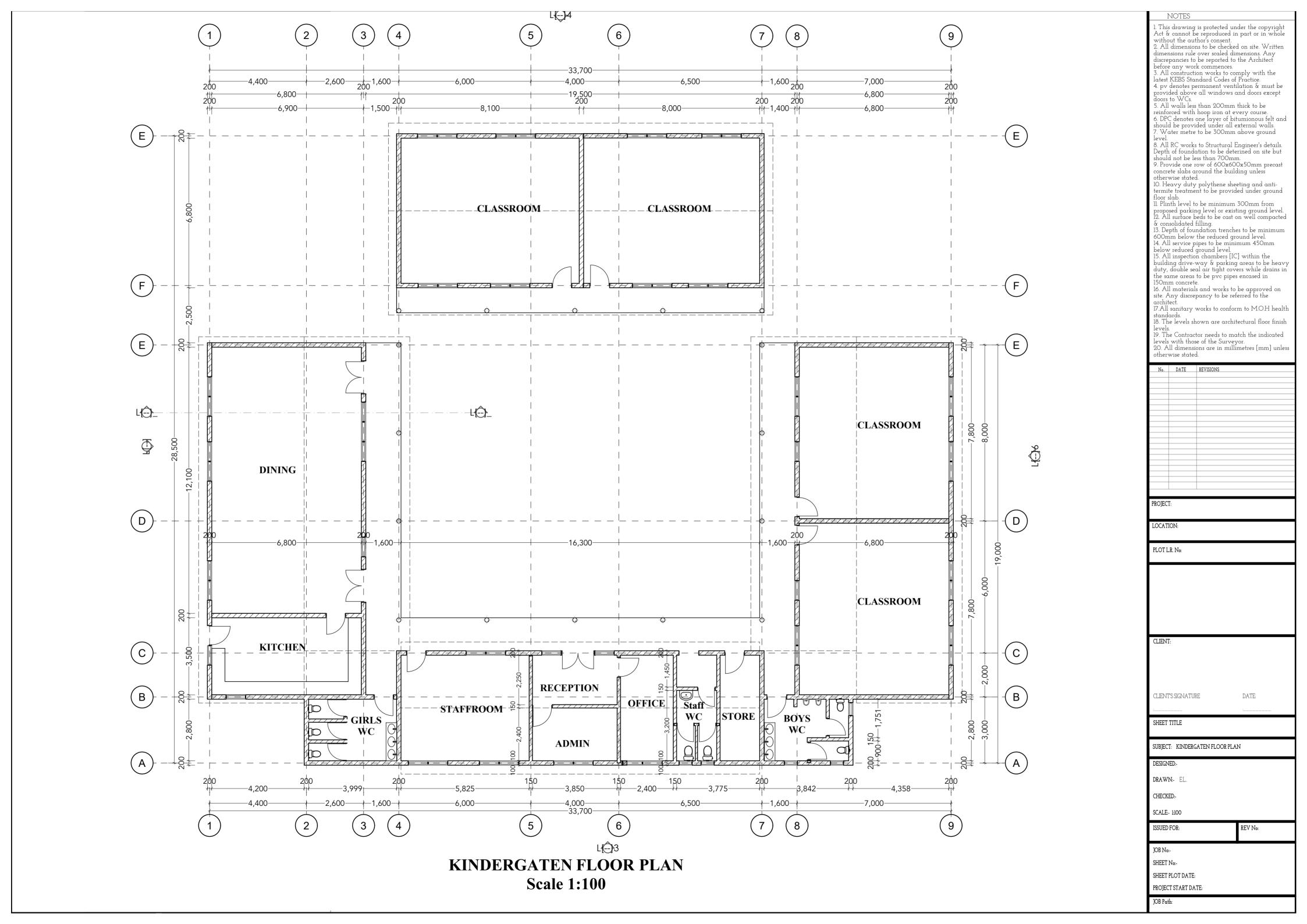
MINISTRY OF LANDS, PUBLIC WORKS, **HOUSING AND URBAN DEVELOPMENT**

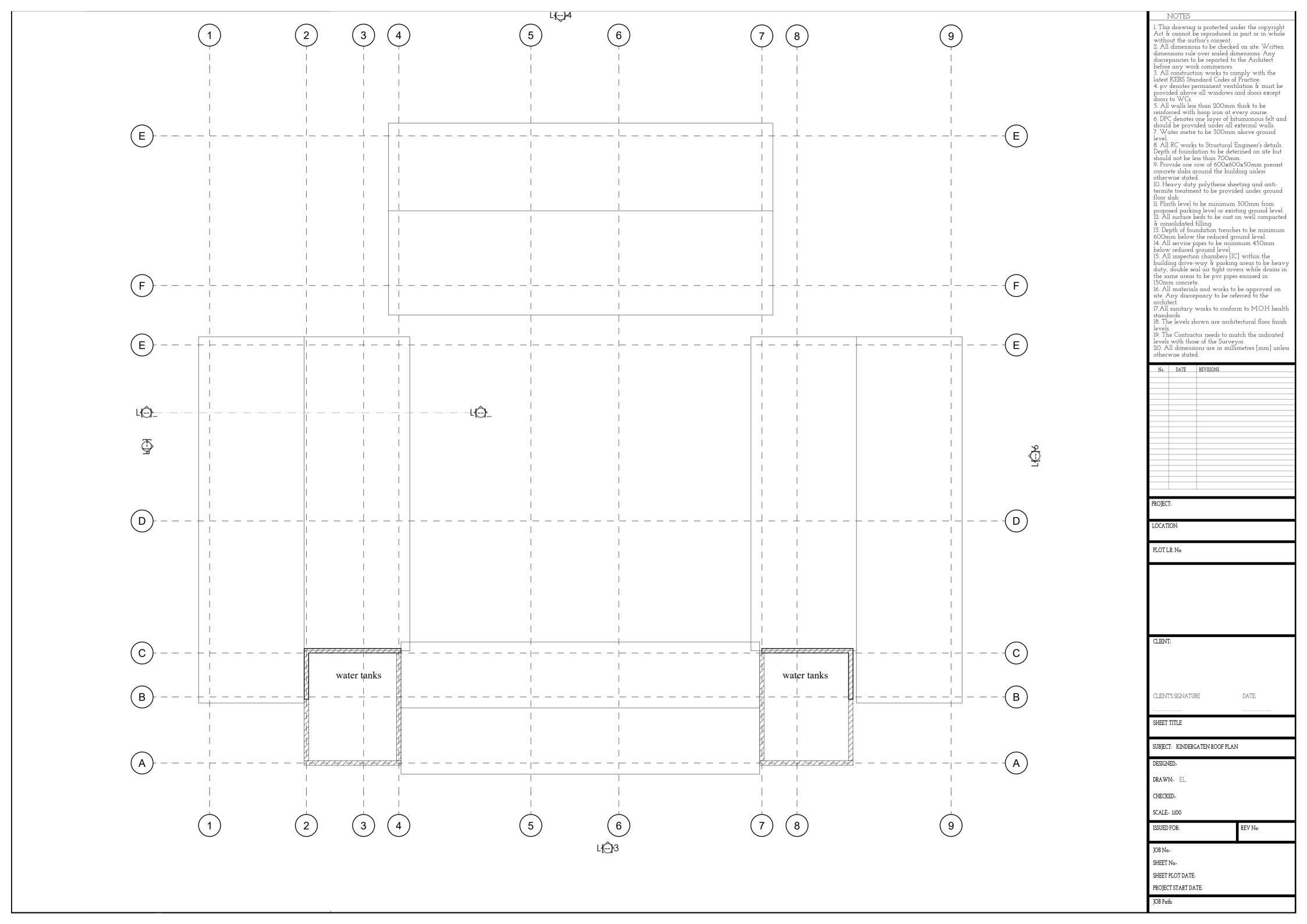
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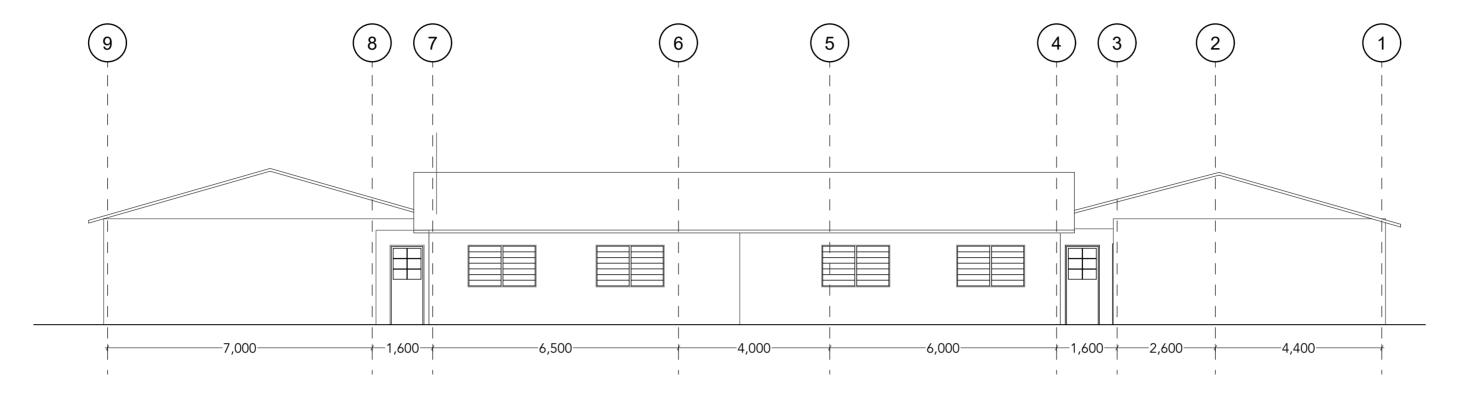


KINDERGARTEN

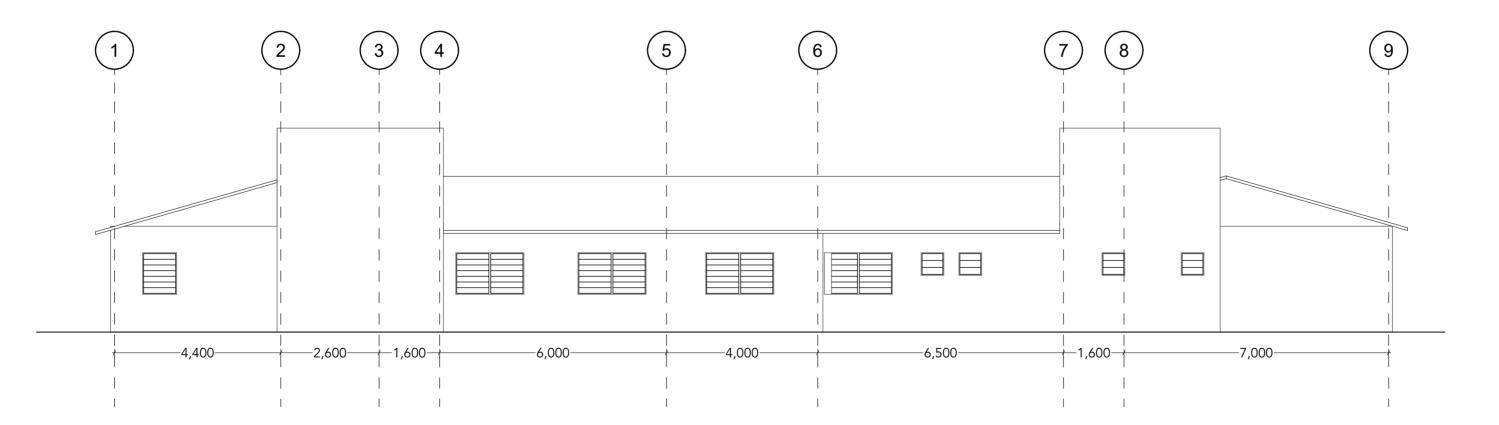
SOCIAL HOUSING PROGRAMME





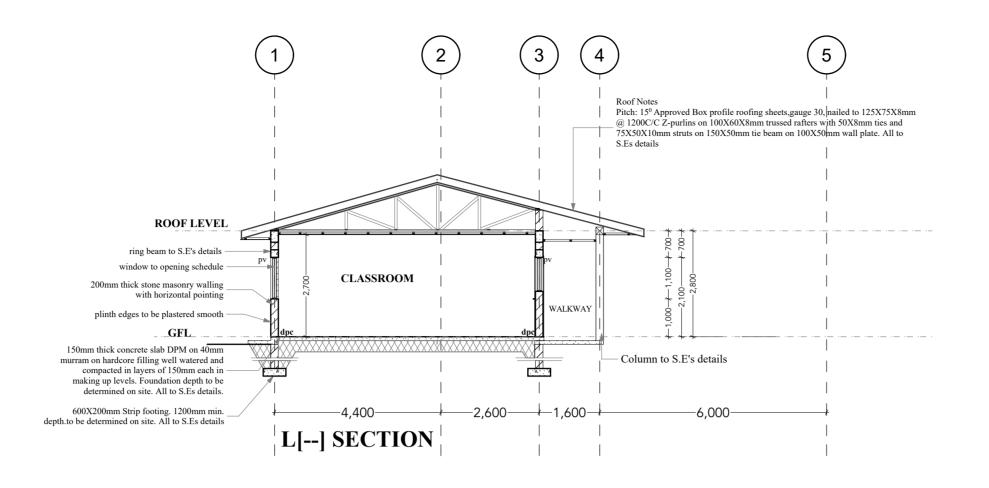


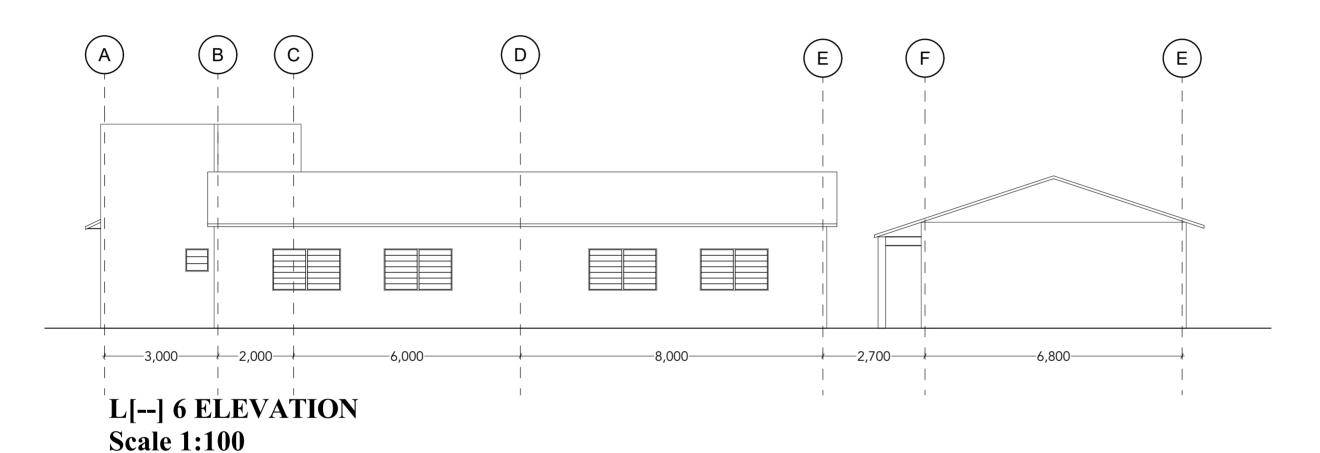
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L[--] 1 ELEVATION Scale 1:100

1. This drawing is protected under the copyright Act & cannot be reproduced in part or in whole without the author's consent. 2. All dimensions to be checked on site. Written dimensions rule over scaled dimensions. Any discrepancies to be reported to the Architect before any work commences.

3. All construction works to comply with the latest KEBS Standard Codes of Practice. 4. pv denotes permanent ventilation & must be 4. pv denotes permanent ventilation of must be provided above all windows and doors except doors to WCs.

5. All walls less than 200mm thick to be reinforced with hoop iron at every course.

6. DPC denotes one layer of bitumionous felt and should be provided under all external walls.

7. Water metre to be 300mm above ground level 8. All RC works to Structural Engineer's details. Depth of foundation to be deterined on site but should not be less than 700mm.

9. Provide one row of 600x600x50mm precast concrete slabs around the building unless otherwise stated.

10. Heavy duty polythene sheeting and antitermite treatment to be provided under ground floor slab.

11. Plinth level to be minimum 300mm from proposed parking level or existing ground level.

12. All surface beds to be cast on well compacted. & consolidated filling.

13. Depth of foundation trenches to be minimum 600mm below the reduced ground level.

14. All service pipes to be minimum 450mm below reduced ground level.

15. All inspection chambers [IC] within the building drive-way & parking areas to be heavy duty, double seal air tight covers while drains in the same areas to be pvc pipes encased in lo. All materials and works to be approved on site. Any discrepancy to be referred to the 17.All sanitary works to conform to M.O.H health 18. The levels shown are architectural floor finish 19. The Contractor needs to match the indicated levels with those of the Surveyor. 20. All dimensions are in millimetres [mm] unless otherwise stated. No. DATE REVISIONS PROJECT: LOCATION: PLOT L.R. No:

CLIENT'S SIGNATURE DA

SHEET TITLE

SUBJECT: KINDERGATEN ELEVATIONS AND SECTION

DESIGNED

DRAWN:- E.L..

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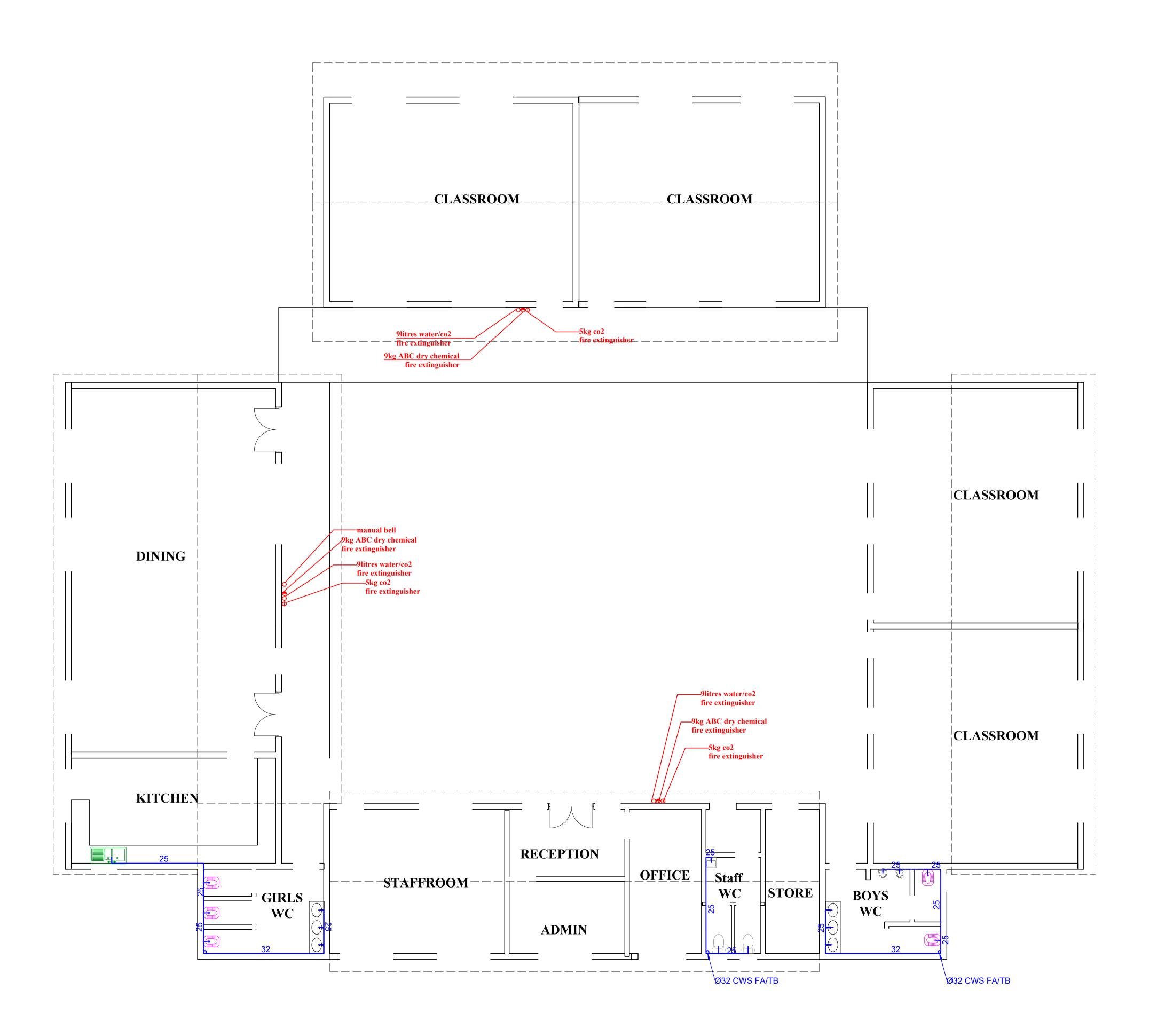
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SHEET PLOT DATE:

PROJECT START DATE:

JOB Path:



KINDERGARTEN TYPICAL PLUMBING AND FIRE FIGHTING FLOOR PLAN

GENERAL NOTES

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- 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

DPC to be 3ply bituminous felt to be provided

under all walls.

STRUCTURAL

All Black cotton soil to be removed from below all building and paved surfaces
 All reinforced concrete work will be in accordance with structural drawings.
 Foundation depths to be determined on site to S.E approval

4. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

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MECHANICAL

- 1. All Plumbing and Drainage Work to comply with specifications
- 2. S.V.P denotes soil vent pipe and to be provided at the head of the drainage 3. Where drainage is shown under driveways and slabs, to be encased in 150mm thick concrete surround.
- 4. All underground foul and waste drain pipes shall be of PVC to comply with BS 5255
- 5. All ICs within building area, driveway and parking to have heavy duty, double-seal airtight

covers and walls to be 200mm.

- 6. Minimum slope in the drain pipes to be 1%7. No chases for pipes will be allowed in the slaps
- 8. Sleeves will be allowed with written approval from S.F.
- 9. No cutting of concrete without express approval of the Architect or S.E 10. All testing of pipes must be coordinated with electrical and any conflicts must be resolved before works begin
- 11. Permanent vents denoted as P.V to be provided as shown on plan.

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING **DEVELOPMENT**

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature: _ _ _ Date: _ _ _ Date: _ _ _ _

DRAWING TITLE: KINDERGARTEN PLUMBING AND FIRE FIGHTING FLOOR PLAN

SCALE:

DRAWN BY:

CHECKED BY:

Name:_ _ _ _ _

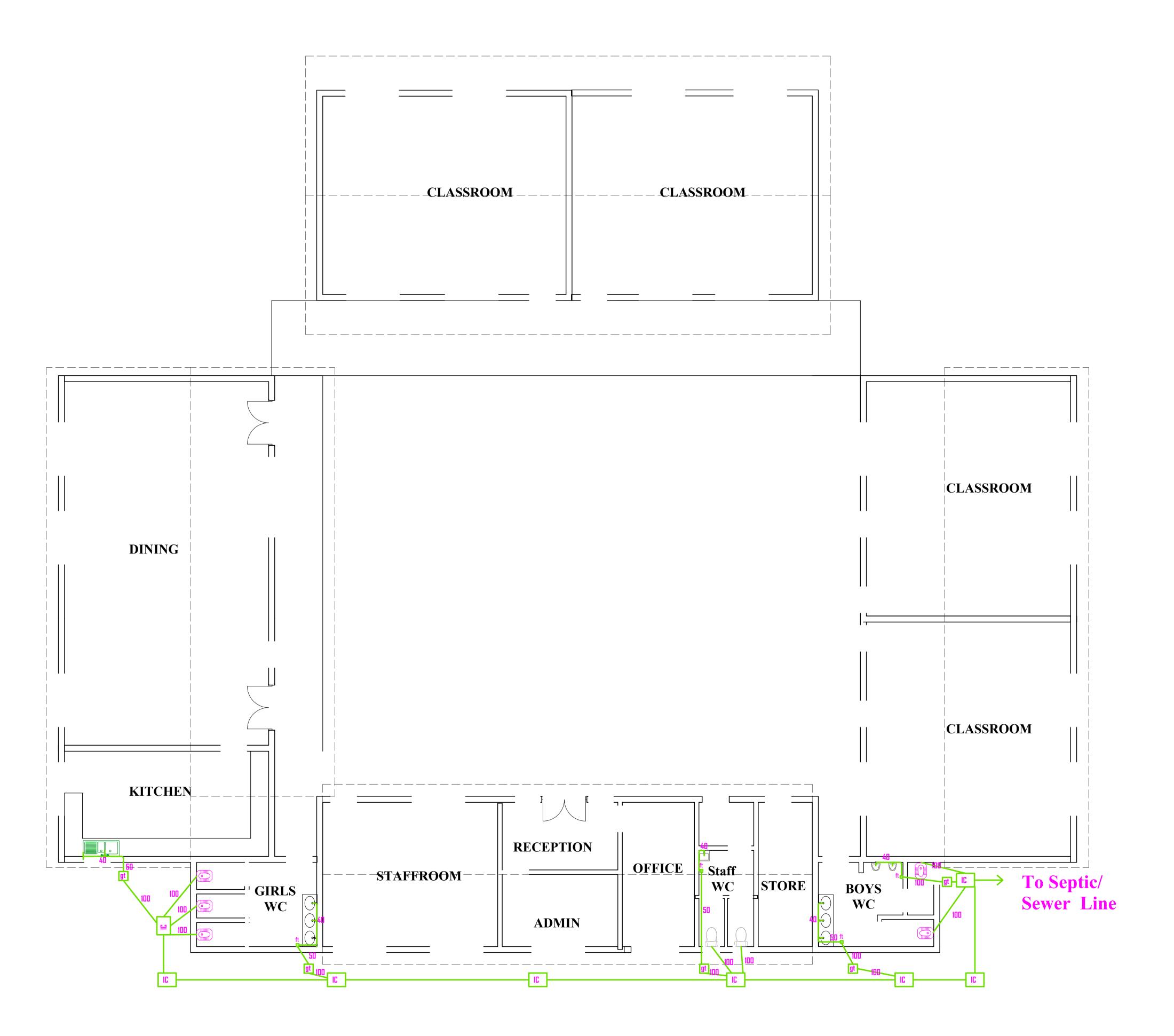
Signature:____

DATE:

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENTFOR HOUSING &URBAN DEVELOPMENT





 This drawing to be read in conjunction with Engineers' drawings.
 All dimensions are in mm unless otherwise

specified.

3. Drawings are not to be scaled. Only figured

dimensions should be used.

4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

DPC to be 3ply bituminous felt to be provided under all walls.

STRUCTURAL

All Black cotton soil to be removed from below all building and paved surfaces
 All reinforced concrete work will be in accordance with structural drawings.
 Foundation depths to be determined on site to S.E approval

4. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

5. All adjacent R.C work and masonry walls to be tied with strap irons at every course

MECHANICAL

1. All Plumbing and Drainage Work to comply with specifications

2. S.V.P denotes soil vent pipe and to be provided at the head of the drainage
3. Where drainage is shown under driveways and slabs, to be encased in 150mm thick concrete surround.

4. All underground foul and waste drain pipes shall be of PVC to comply with BS 5255
5. All ICs within building area, driveway and parking to have heavy duty, double-seal airtight covers and walls to be 200mm.
6. Minimum slope in the drain pipes to be 1%
7. No chases for pipes will be allowed in the

slabs
8. Sleeves will be allowed with written approval from S.E.

9. No cutting of concrete without express approval of the Architect or S.E 10. All testing of pipes must be coordinated with electrical and any conflicts must be resolved before works begin

11. Permanent vents denoted as P.V to be provided as shown on plan.

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING DEVELOPMENT

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature:_ _ _ _ _ _

DRAWING TITLE:

KINDERGARTEN DRAINAGE FLOOR PLAN

SCALE:

DRAWN BY:

CHECKED BY:

Name:_

Signature:

_ _ _ _ [

DATE:

MINISTRYOF LANDS, PUBLIC WORKS , HOUSING AND URBAN DE VELOPMENT

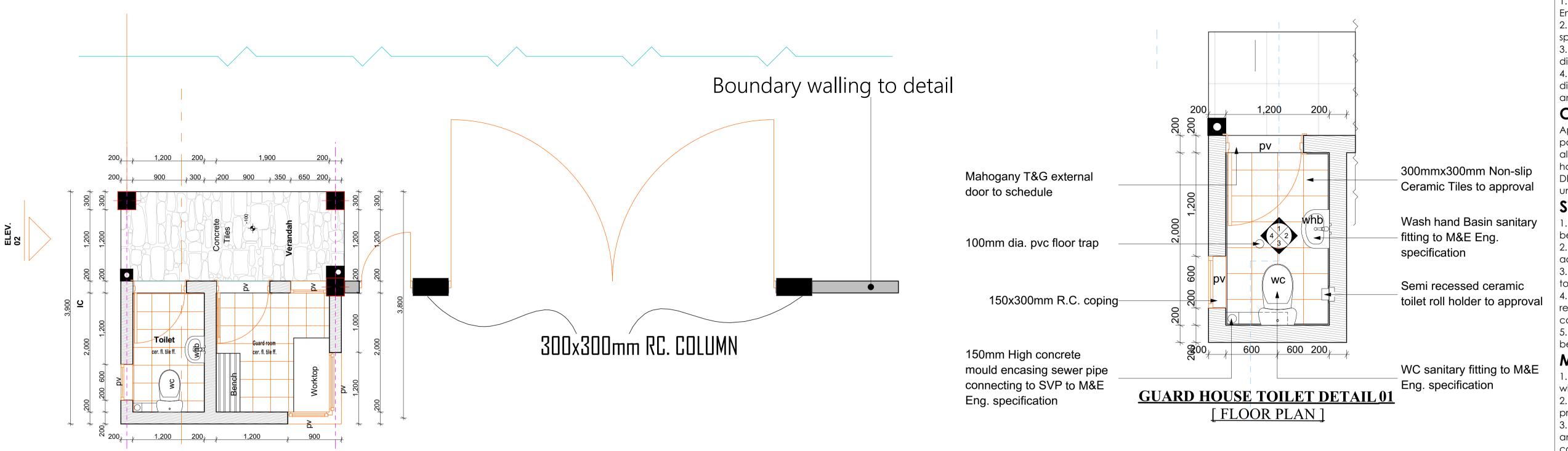
STATE DEPARTMENTFOR HOUSING &URBAN DEVELOPMENT

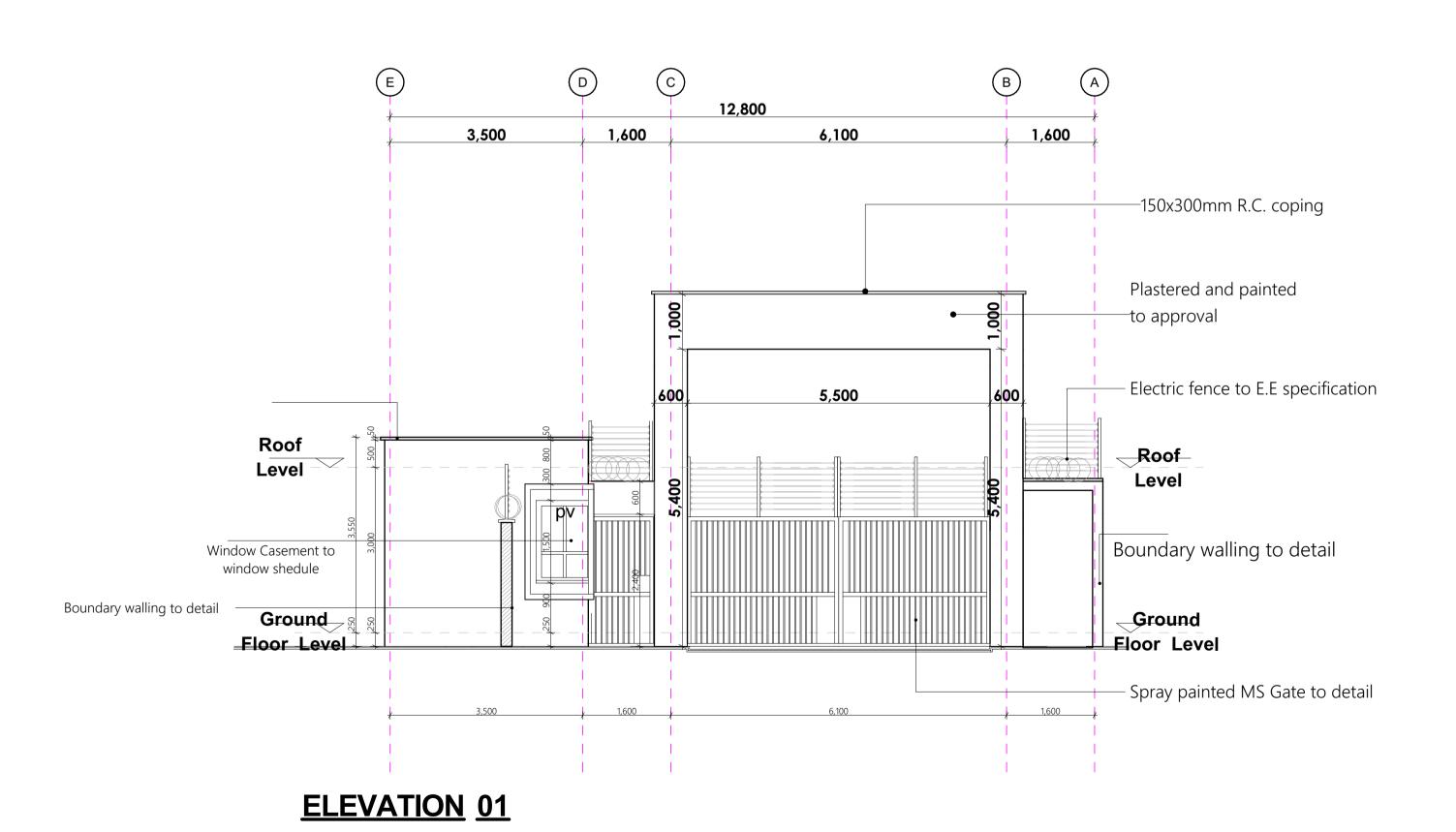


FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

KINDERGARTEN DRAINAGE FLOOR PLAN

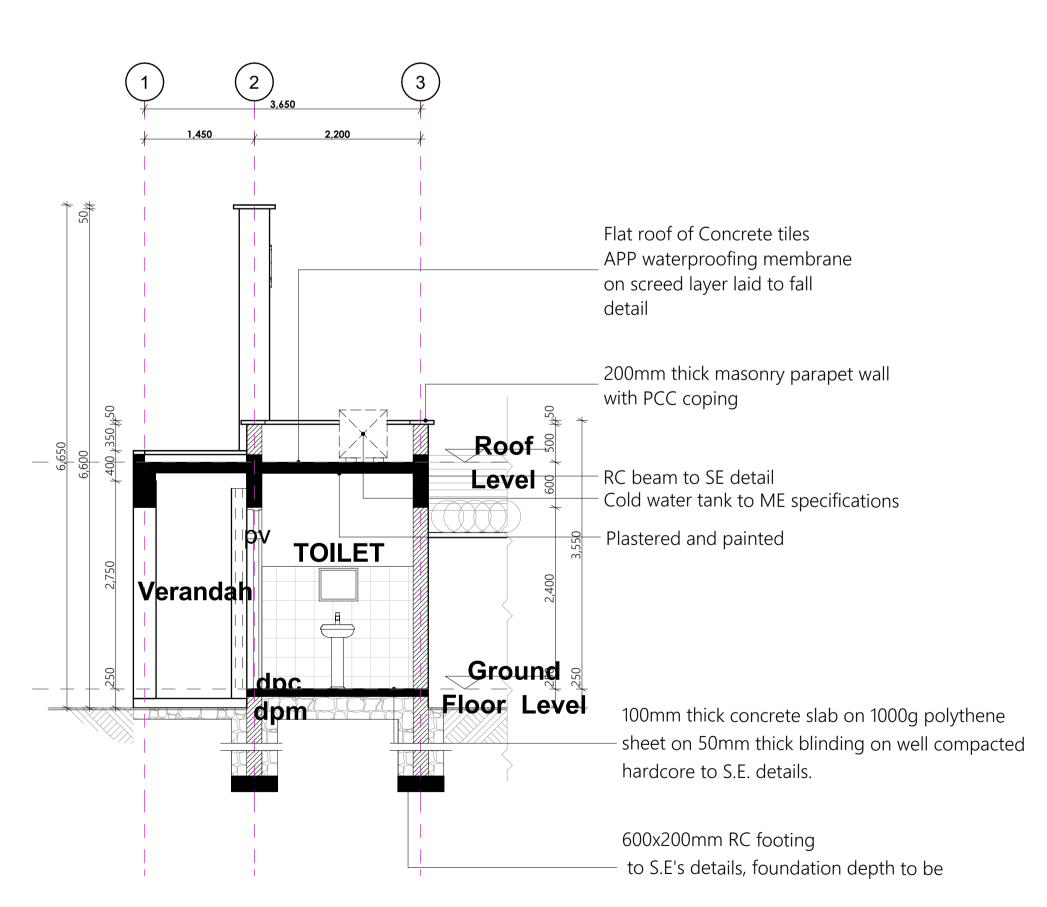
GATE HOUSE





GUARD HOUSE DETAIL

[FLOOR PLAN]



Section S-01

GENERAL NOTES

1. This drawing to be read in conjunction with Engineers' drawings.

2. All dimensions are in mm unless otherwise

specified. 3. Drawings are not to be scaled. Only figured

dimensions should be used. 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

DPC to be 3ply bituminous felt to be provided under all walls.

STRUCTURAL

1. All Black cotton soil to be removed from below all building and paved surfaces 2. All reinforced concrete work will be in accordance with structural drawings. 3. Foundation depths to be determined on site to S.E approval

4. All walls less than 200mm thick to be reinforced with hoop iron at every alternate

5. All adjacent R.C work and masonry walls to be tied with strap irons at every course

MECHANICAL

1. All Plumbing and Drainage Work to comply with specifications 2. S.V.P denotes soil vent pipe and to be provided at the head of the drainage 3. Where drainage is shown under driveways and slabs, to be encased in 150mm thick concrete surround.

4. All underground foul and waste drain pipes shall be of PVC to comply with BS5255 5. All ICs within building area, driveway and parking to have heavy duty, double-seal airtight covers and walls to be 200mm.

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ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED AFFORDABLE HOUSING **DEVELOPMENT IN**

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

_ _ _ Date: _ _ _ _ Signature:____

DRAWING TITLE:

GATE HOUSE DETAILS

SCALE:

1:20, 1:75

DRAWN BY:

CHECKED BY:

__ Date:_ <u>13/03/2024</u>

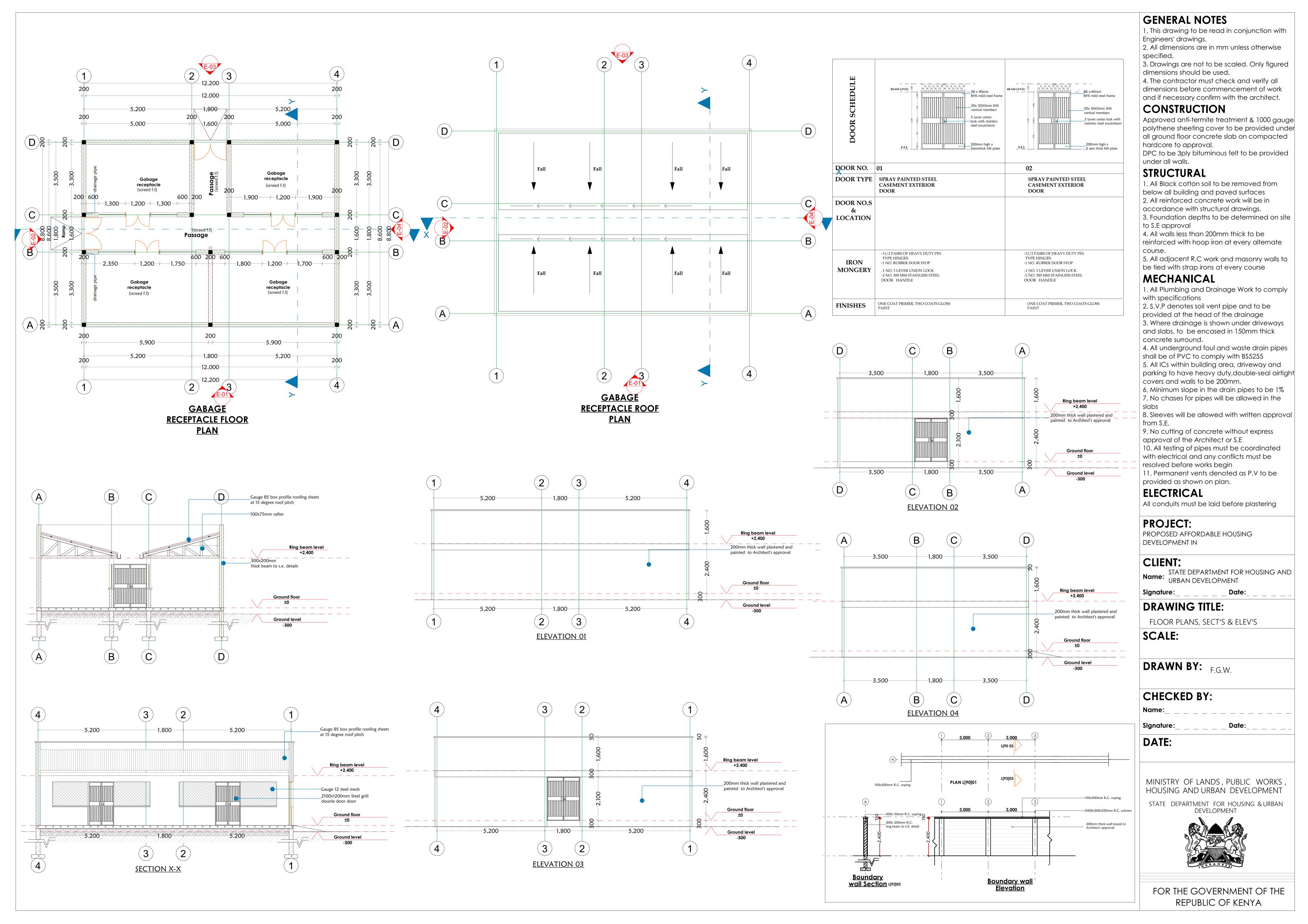
DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN

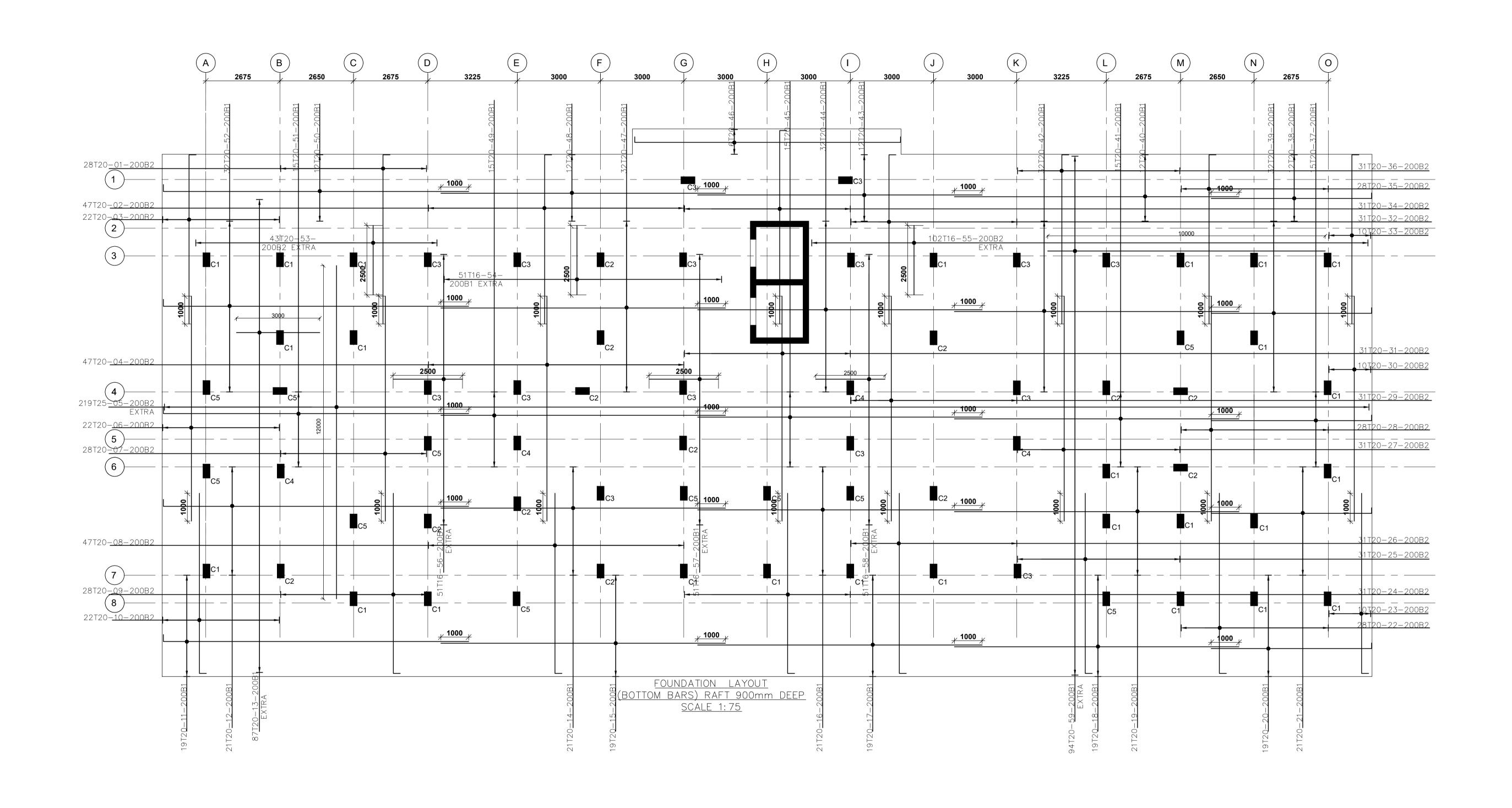


WASTE RECEPTACLE



STRUCTURAL DRAWINGS

SOCIAL HOUSING G+14 UNITS



NOTE:

1. Foundations to be excavated to a minimum depth of 3.0m 2. Introduce a 300x200 ground beam over all the foundation wallings3. All masonry units to be machine cut blocks

1. All dimensions are in millimetres unless otherwise stated.

2. All reinforcements must be checked and approved by project structural engineer

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 8. All structural steel be grade 43A. 4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm,
Beams - 25mm,Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick.

10. All structural steel to be painted with anti-rust primmer paint.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

DEVELOPMENT

STRUCTURAL ENGINEER:

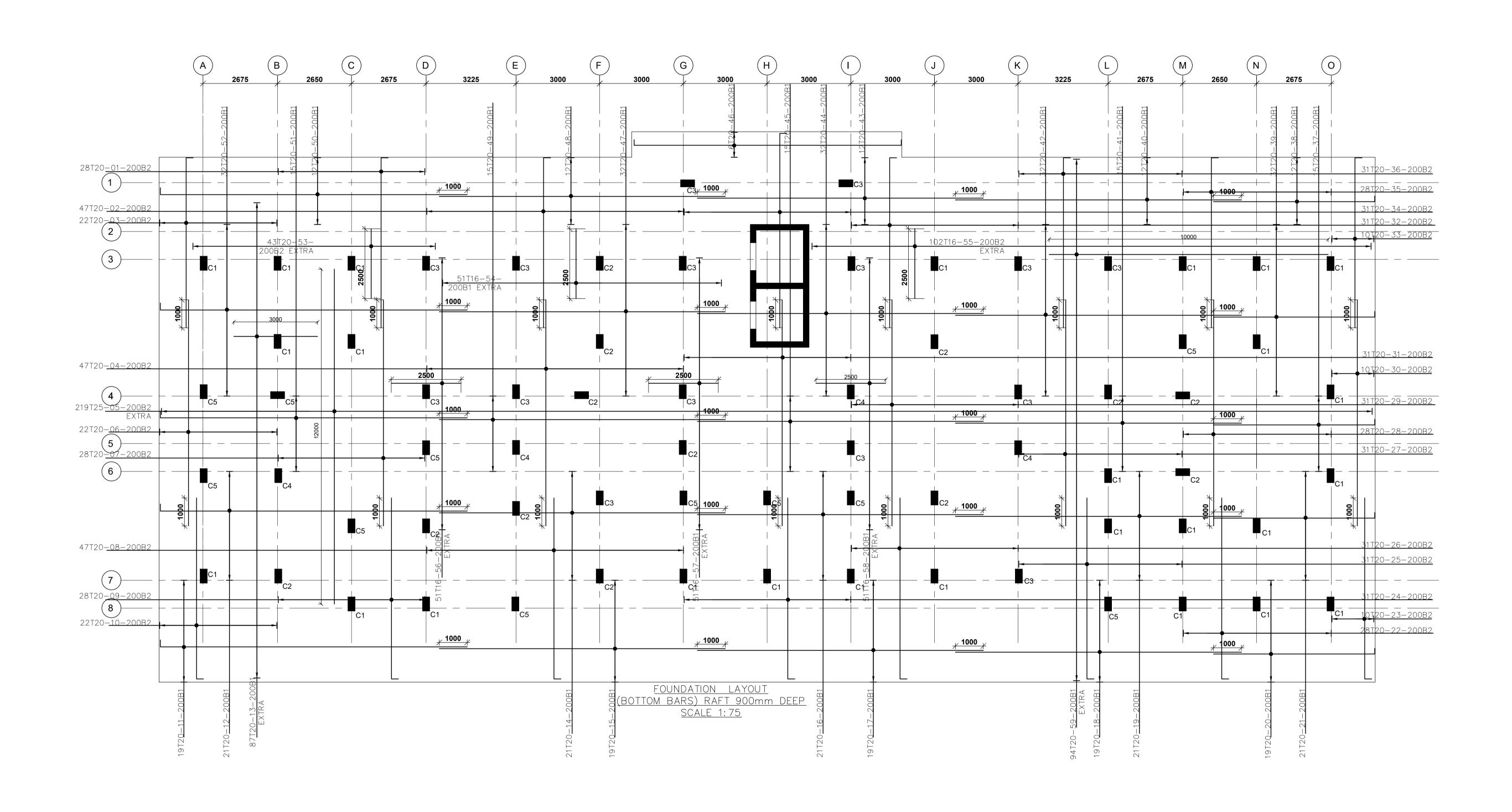
Checked by: R.M.O Designed by: M.K.M Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING PROGRAM-G+14 SOCIAL UNITS Title RAFT TOP BARS FOUNDATION

DETAILS

Revisions				
No.	Description	Date		



NOTE:

1. Foundations to be excavated to a minimum depth of 3.0m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

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4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm,
Beams - 25mm,Columns - 40mm, Foundations -50mm

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10. All structural steel to be painted with anti-rust primmer paint.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

STRUCTURAL ENGINEER:

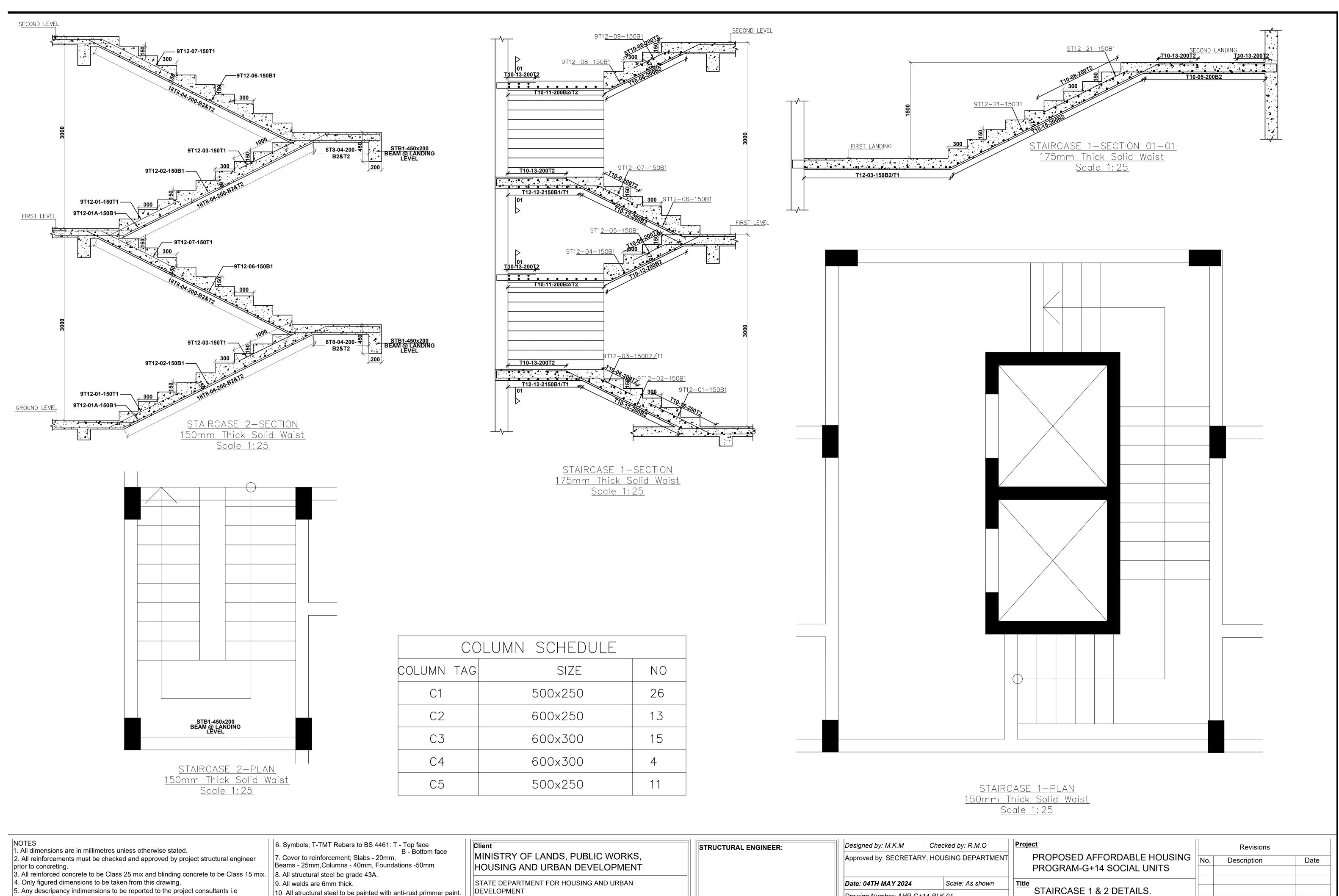
Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS Title RAFT BOTTOM BARS FOUNDATION

DETAILS

Revisions Description

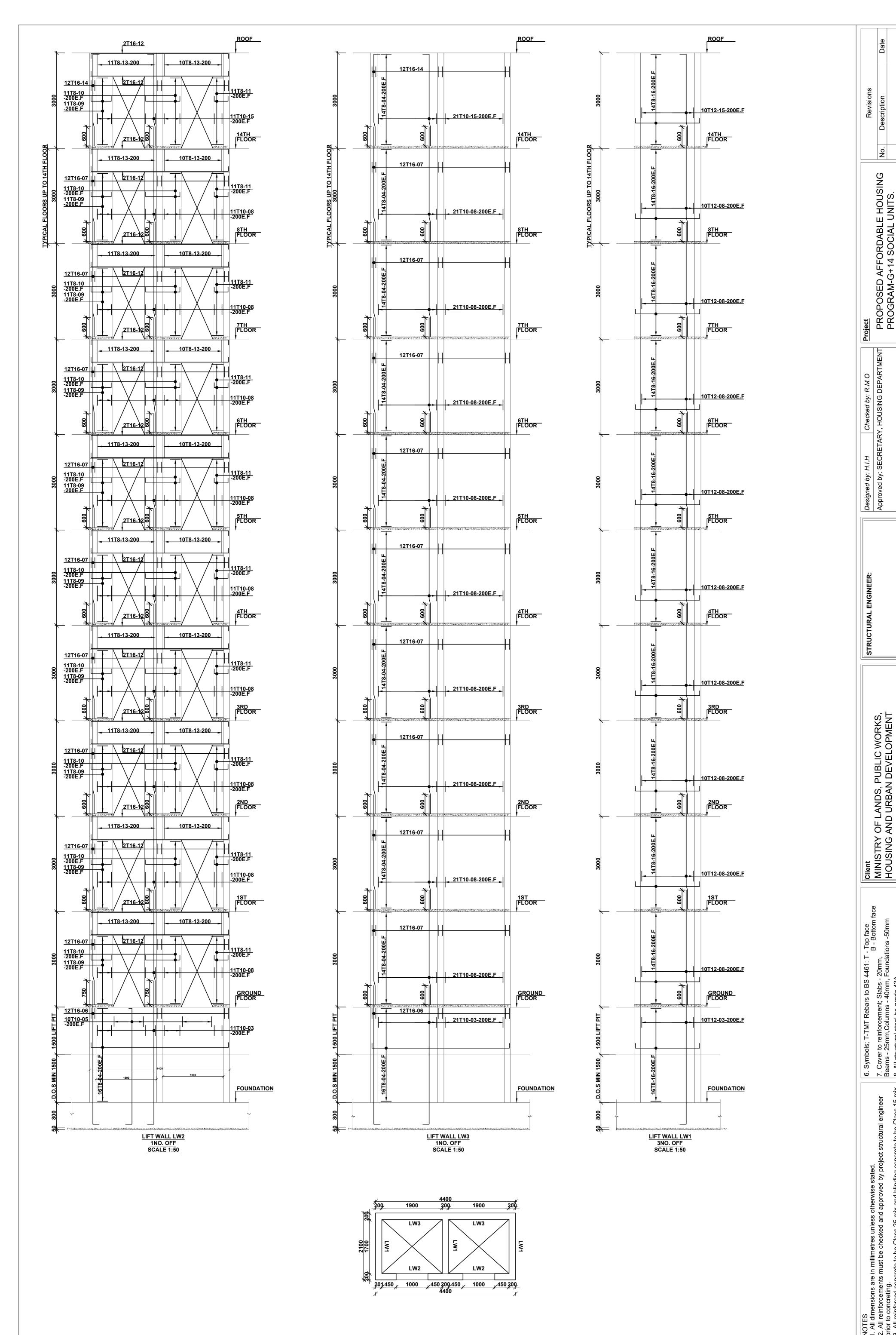


Drawing Number: AHP-G+14-BLK 01

DEVELOPMENT

10. All structural steel to be painted with anti-rust primmer paint.

5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.



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STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Revisions

Description

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PROPOSED AFFORDABLE HOUSING PROGRAM-G+14 SOCIAL UNITS.

SECRETARY, HOUSING DEPARTMENT

STRUCTURAL ENGINEER

DETAILS

LIFT WALL RC

As shown

Scale: , -G+14-BLK 01

Drawing Number: AHP

6. Symbols; T-TM 7. Cover to reinfo Beams - 25mm,C 8. All structural st 9. All welds are 6i 10. All structural s

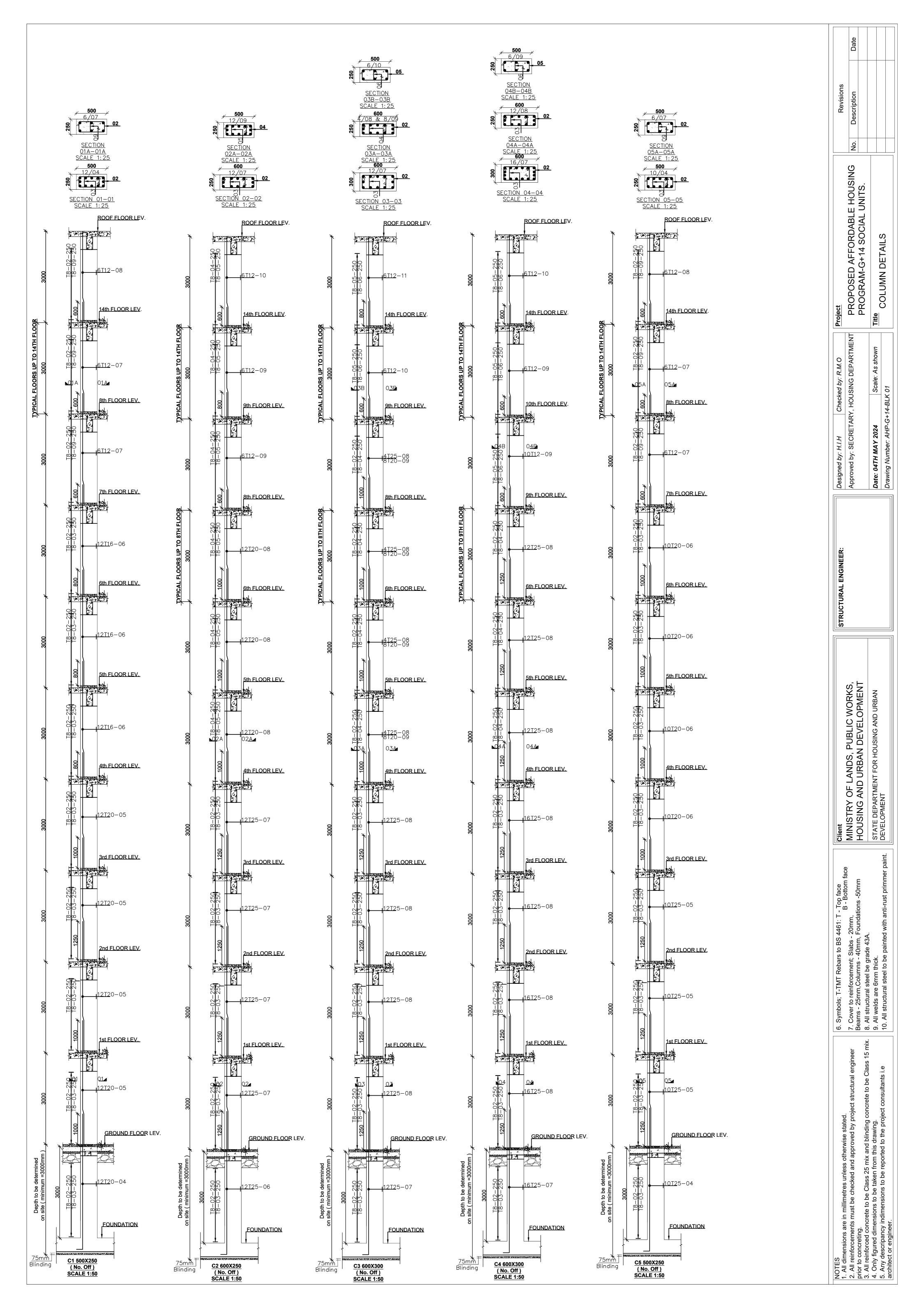
NOTES

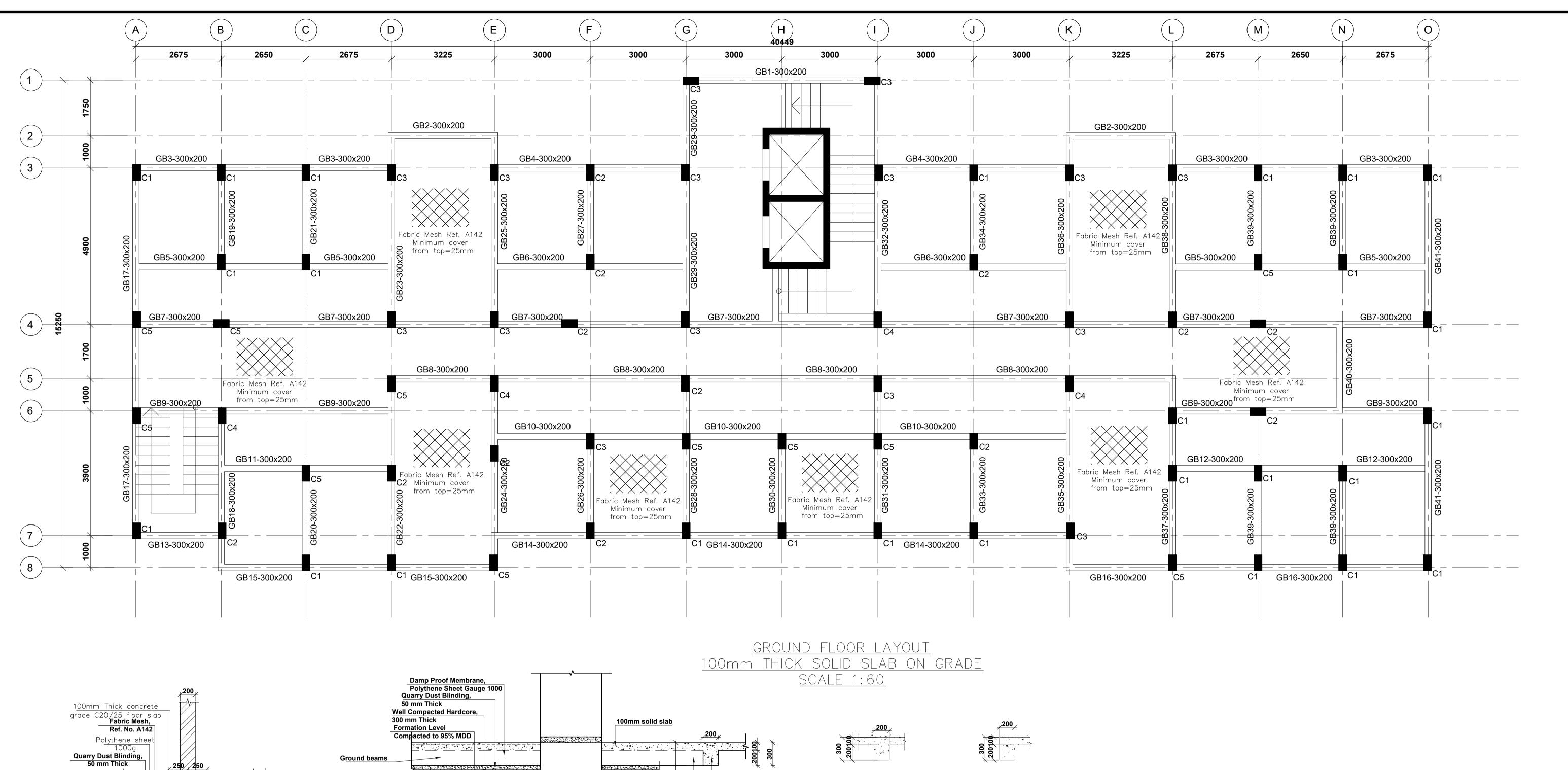
1. All dimensions are in millimetres unless otherwise stated.

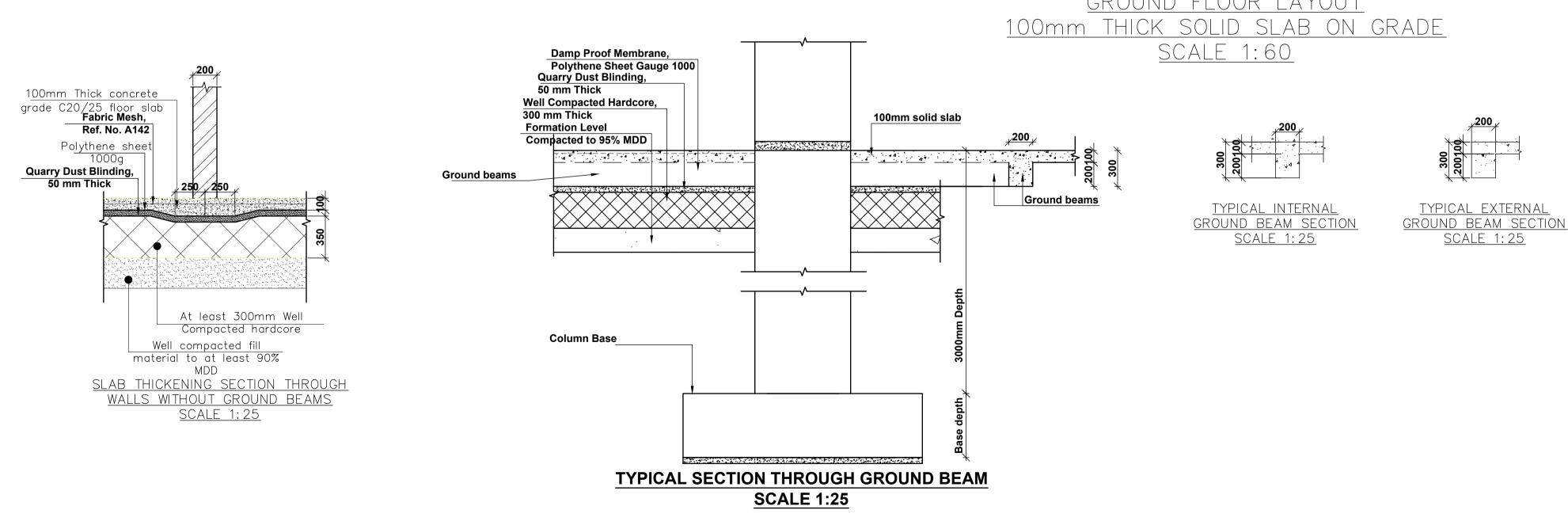
2. All reinforcements must be checked and approved by project structural engineer prior to concreting.

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 n 4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.







NOTE:

1. Foundations to be excavated to a minimum depth of 3.0m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

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2. All reinforcements must be checked and approved by project structural engineer

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6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face 7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

10. All structural steel to be painted with anti-rust primmer paint.

9. All welds are 6mm thick.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

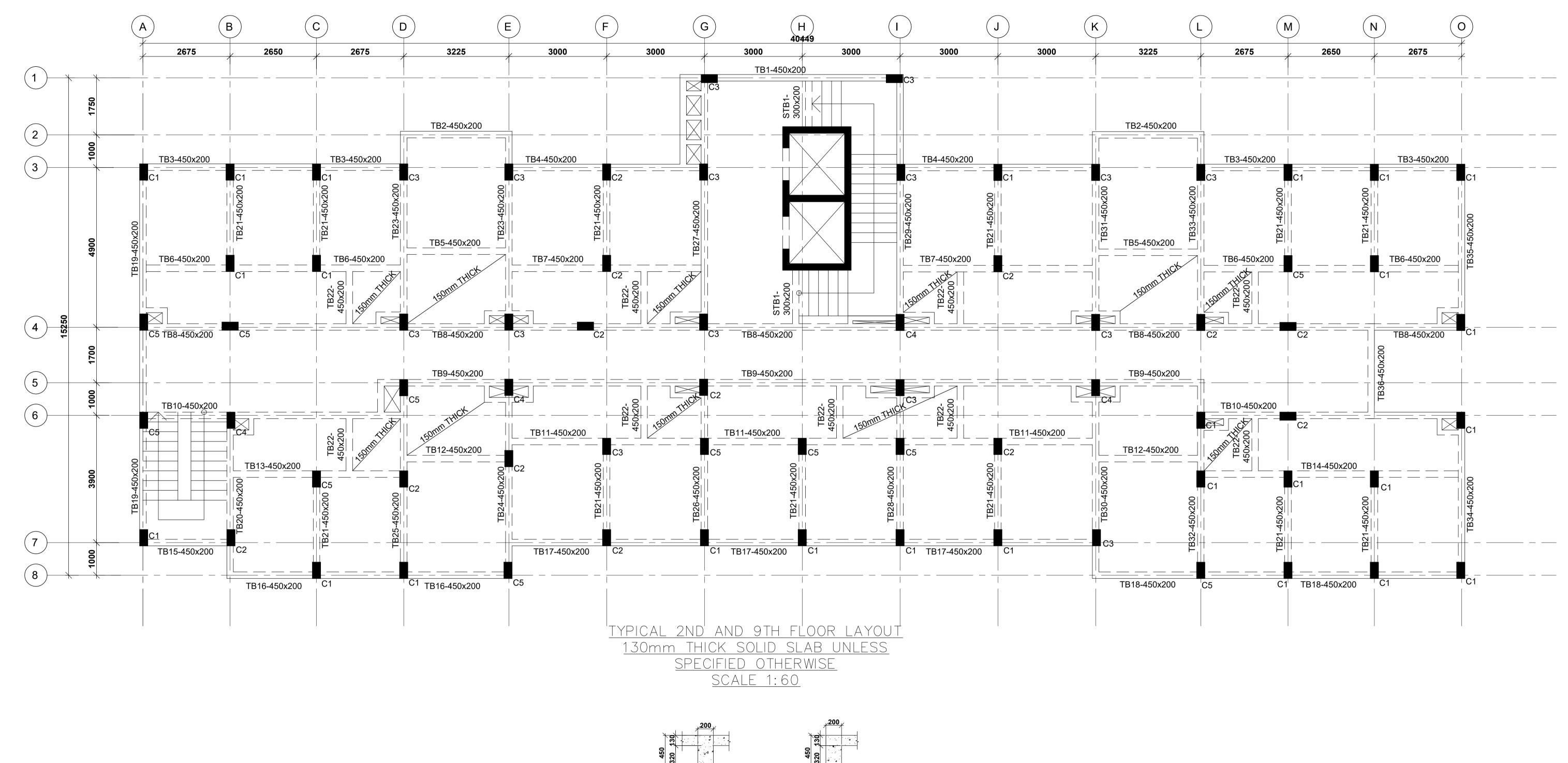
DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Scale: As shown Date: 04TH MAY 2024 Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS GROUND FLOOR LAYOUT.

Revisions Description Date



TYPICAL INTERNAL SECTION
SCALE 1:25
TYPICAL EXTERNAL SECTION
SCALE 1:25

NOTE:

1. Foundations to be excavated to a minimum depth of 3.0m 2. Introduce a 300x200 ground beam over all the foundation wallings3. All masonry units to be machine cut blocks

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7. Cover to reinforcement; Slabs - 20mm,
Beams - 25mm,Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT 10. All structural steel to be painted with anti-rust primmer paint.

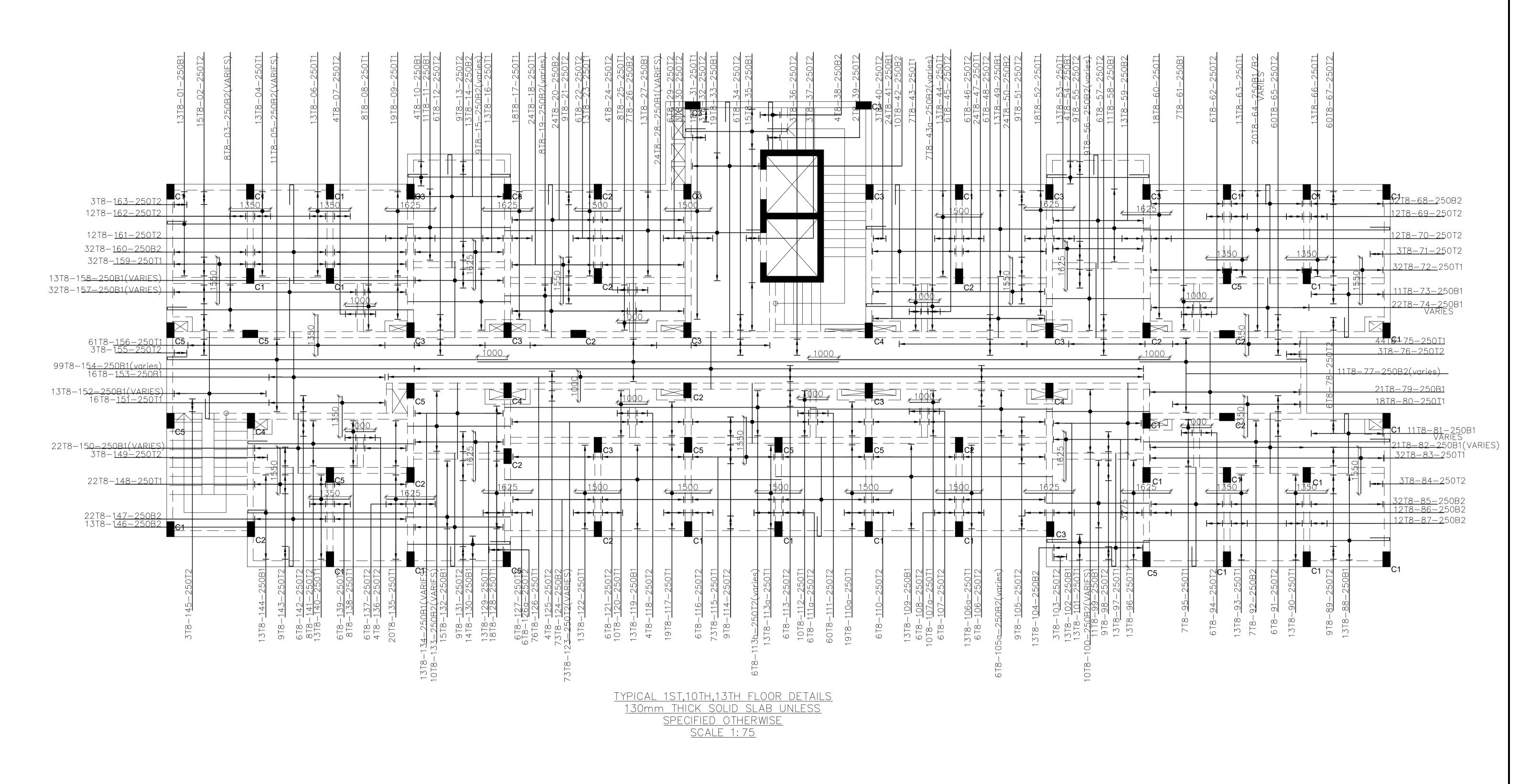
STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL FLOOR LAYOUT.

Revisions Description Date



2. All reinforcements must be checked and approved by project structural engineer

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 8. All structural steel be grade 43A. 4. Only figured dimensions to be taken from this drawing.

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MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

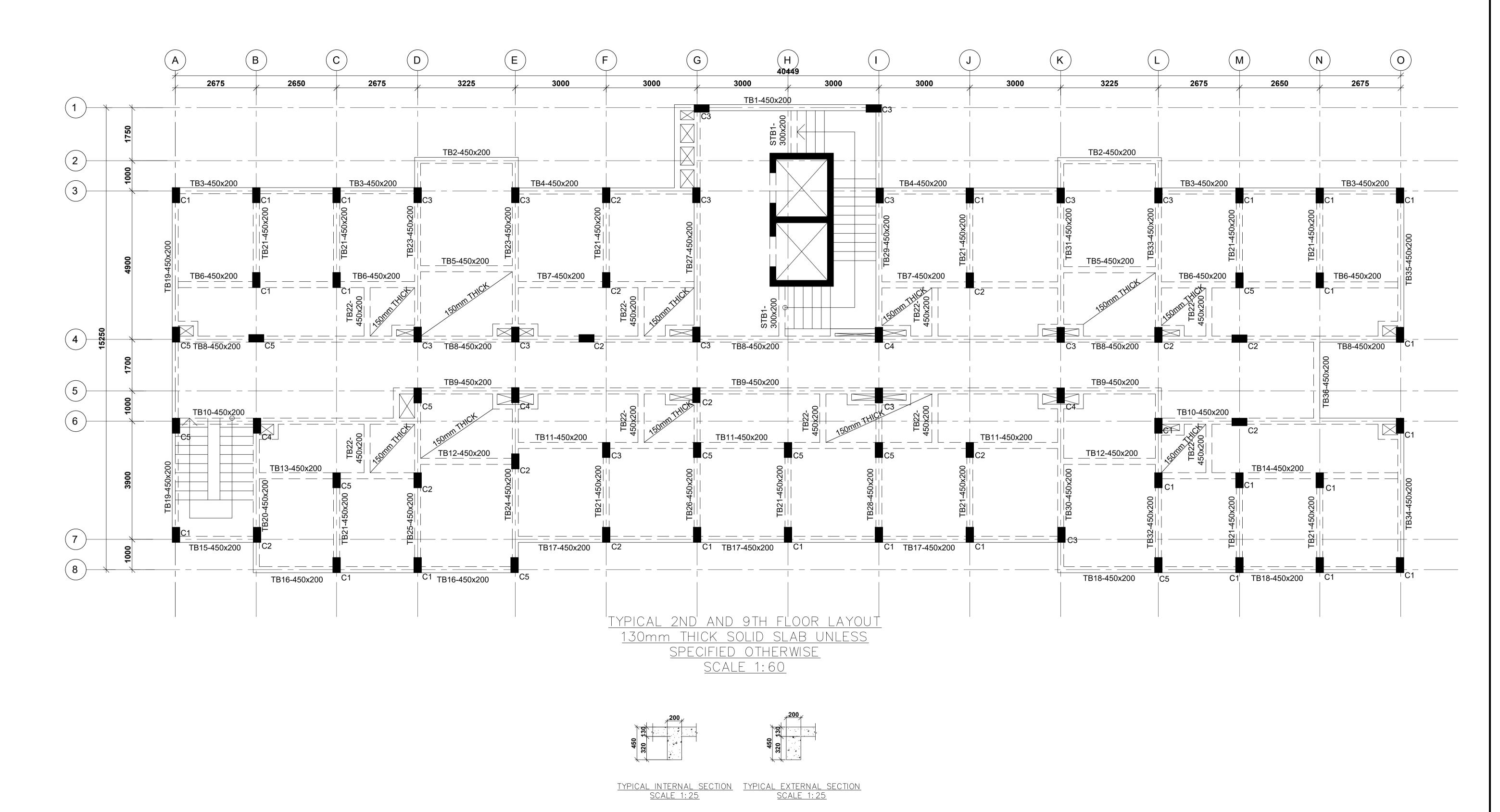
DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Scale: As shown Date: 04TH MAY 2024

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL SLAB DETAILS.



1. Foundations to be excavated to a minimum depth of 3.0m 2. Introduce a 300x200 ground beam over all the foundation wallings3. All masonry units to be machine cut blocks

1. All dimensions are in millimetres unless otherwise stated.

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9. All welds are 6mm thick.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

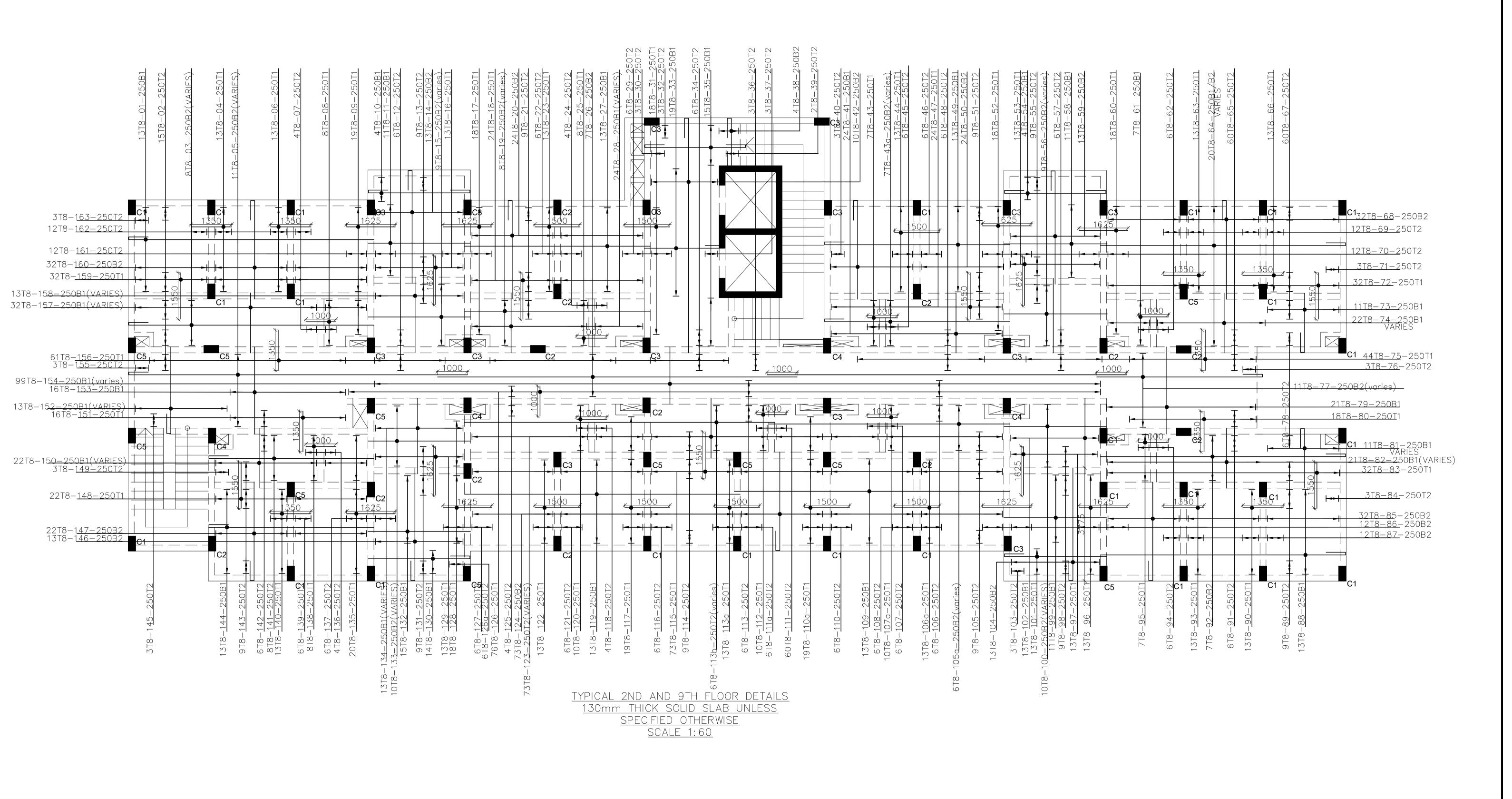
DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL FLOOR LAYOUT.



2. All reinforcements must be checked and approved by project structural engineer

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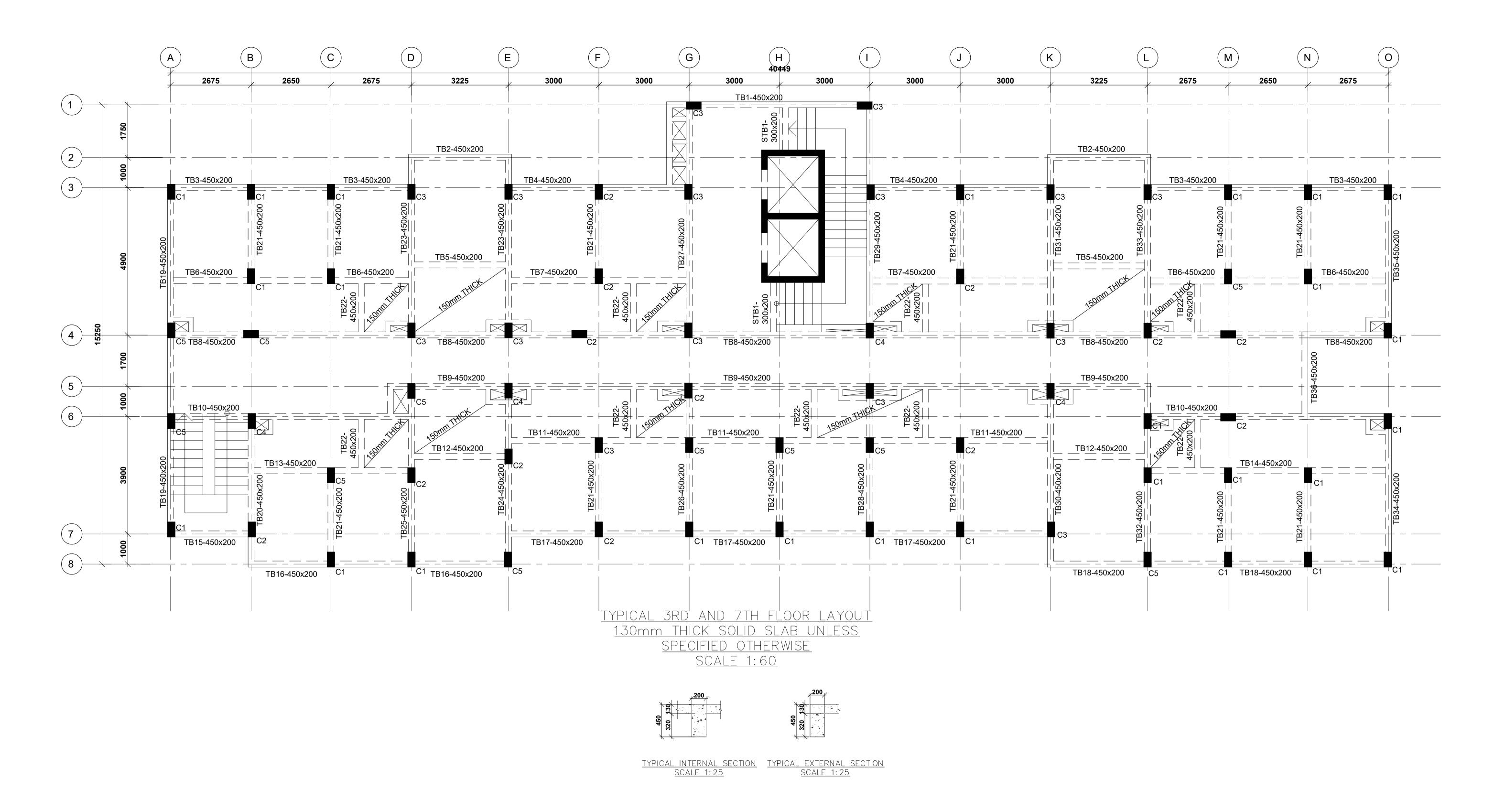
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL SLAB DETAILS.



1. Foundations to be excavated to a minimum depth of 3.0m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

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MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

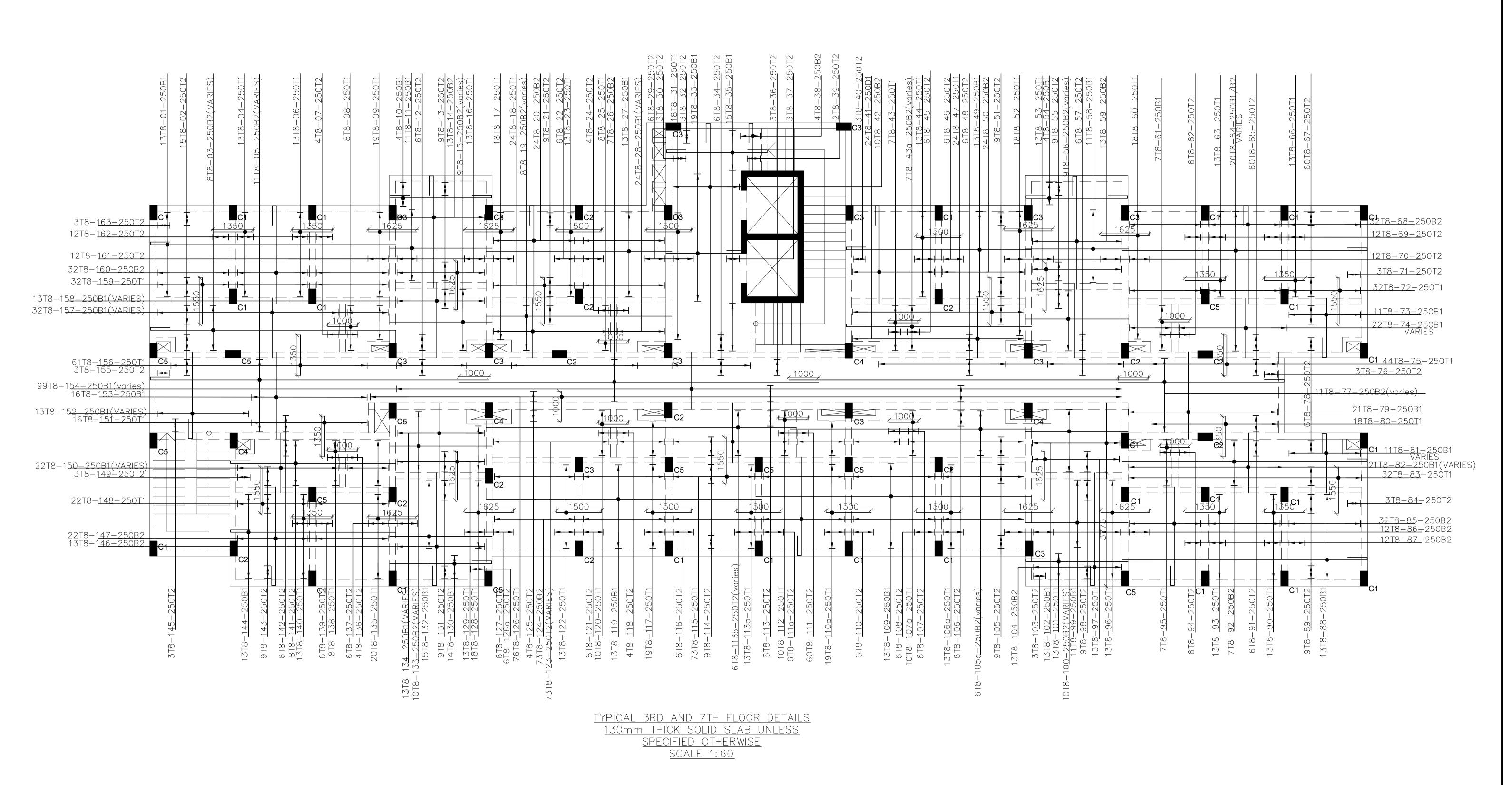
DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL FLOOR LAYOUT.



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MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING AND URBAN

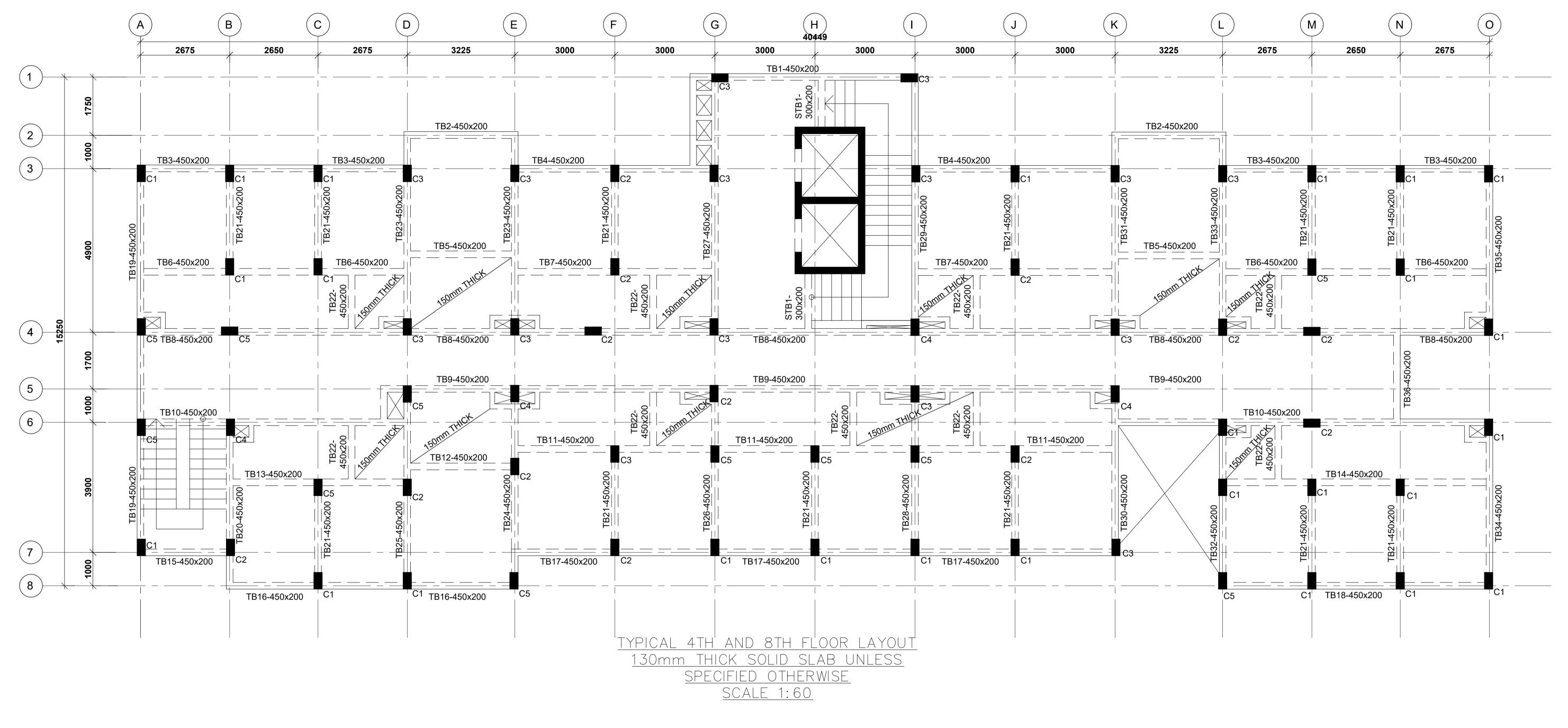
DEVELOPMENT

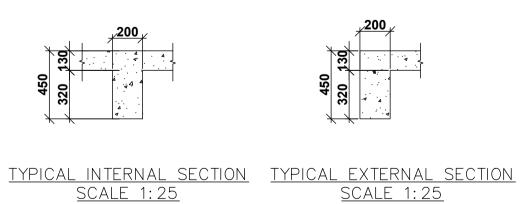
STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL SLAB DETAILS.





1. Foundations to be excavated to a minimum depth of 3.0m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

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9. All welds are 6mm thick.

HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT 10. All structural steel to be painted with anti-rust primmer paint.

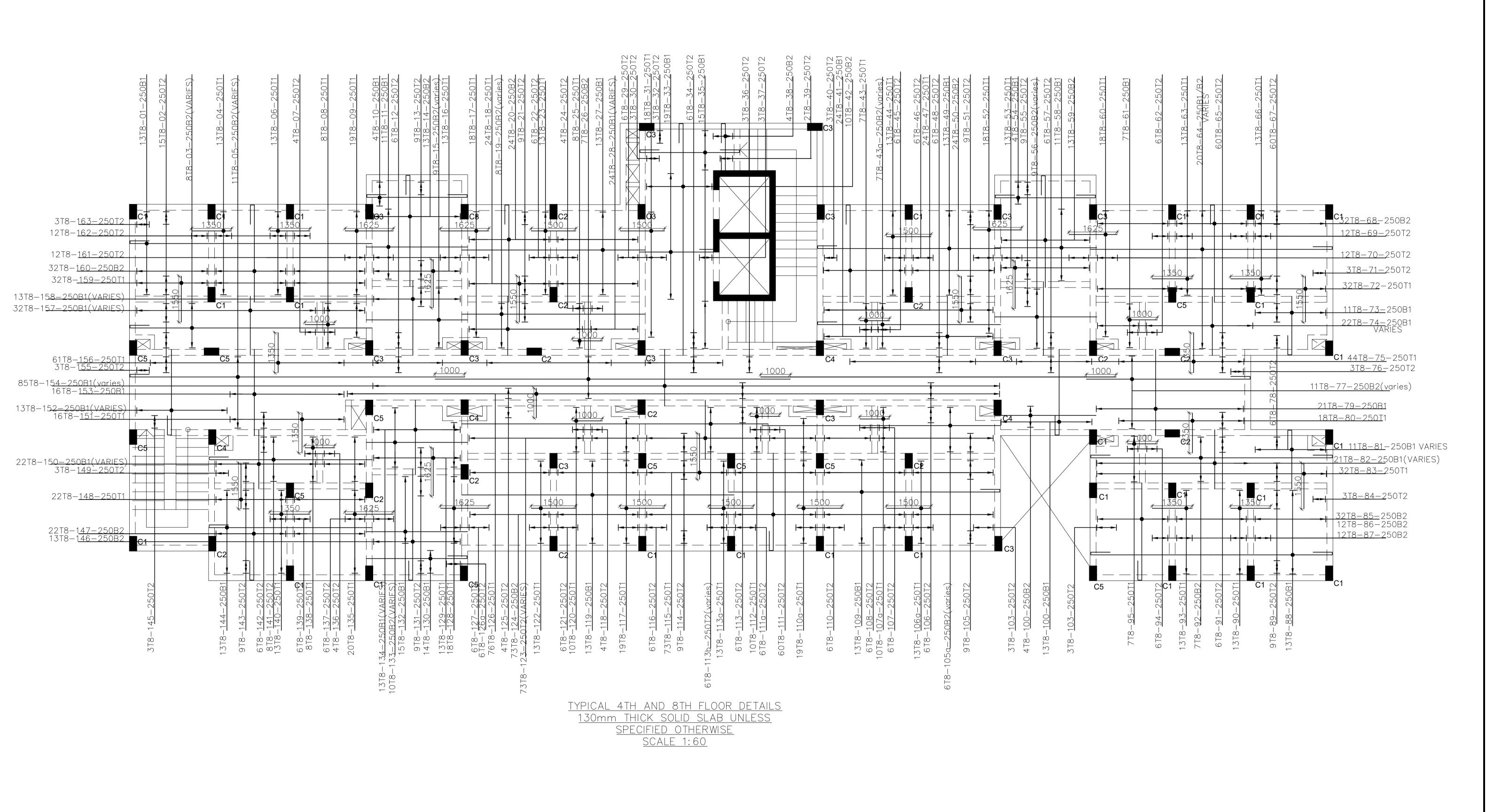
MINISTRY OF LANDS, PUBLIC WORKS,

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL FLOOR LAYOUT.



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MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

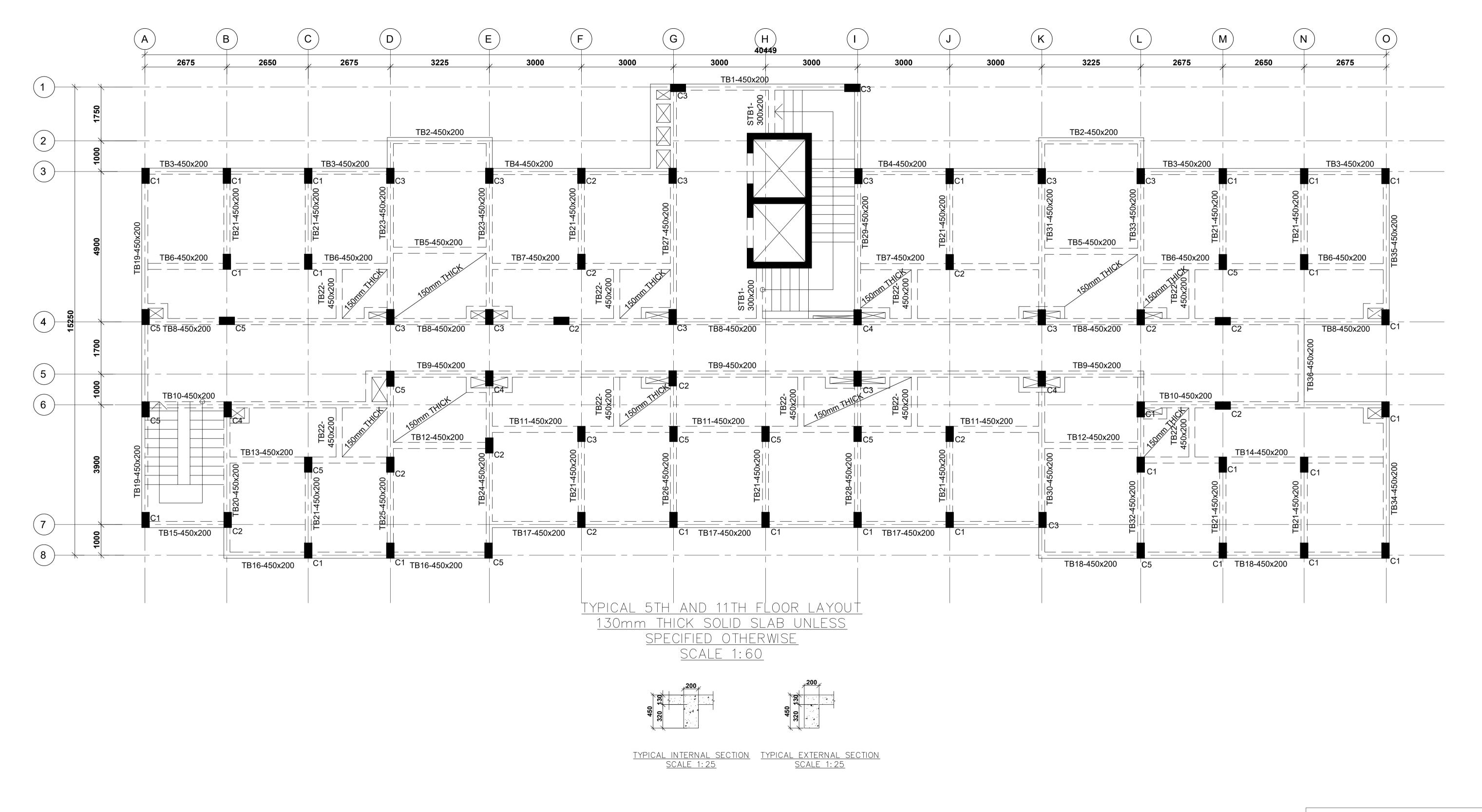
DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL SLAB DETAILS.



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MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

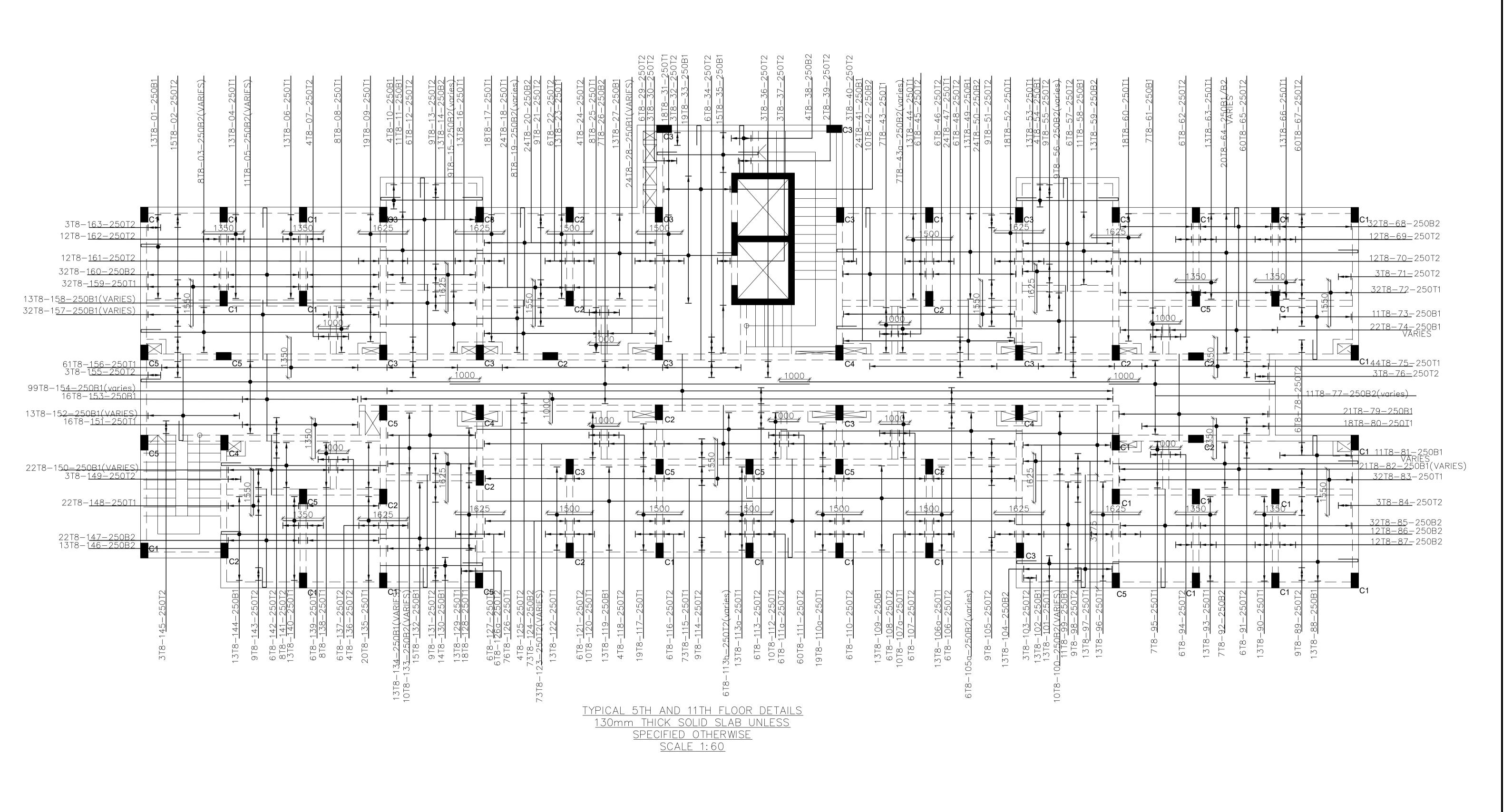
DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL FLOOR LAYOUT.



2. All reinforcements must be checked and approved by project structural engineer

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. | 8. All structural steel be grade 43A. 4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick. 10. All structural steel to be painted with anti-rust primmer paint.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

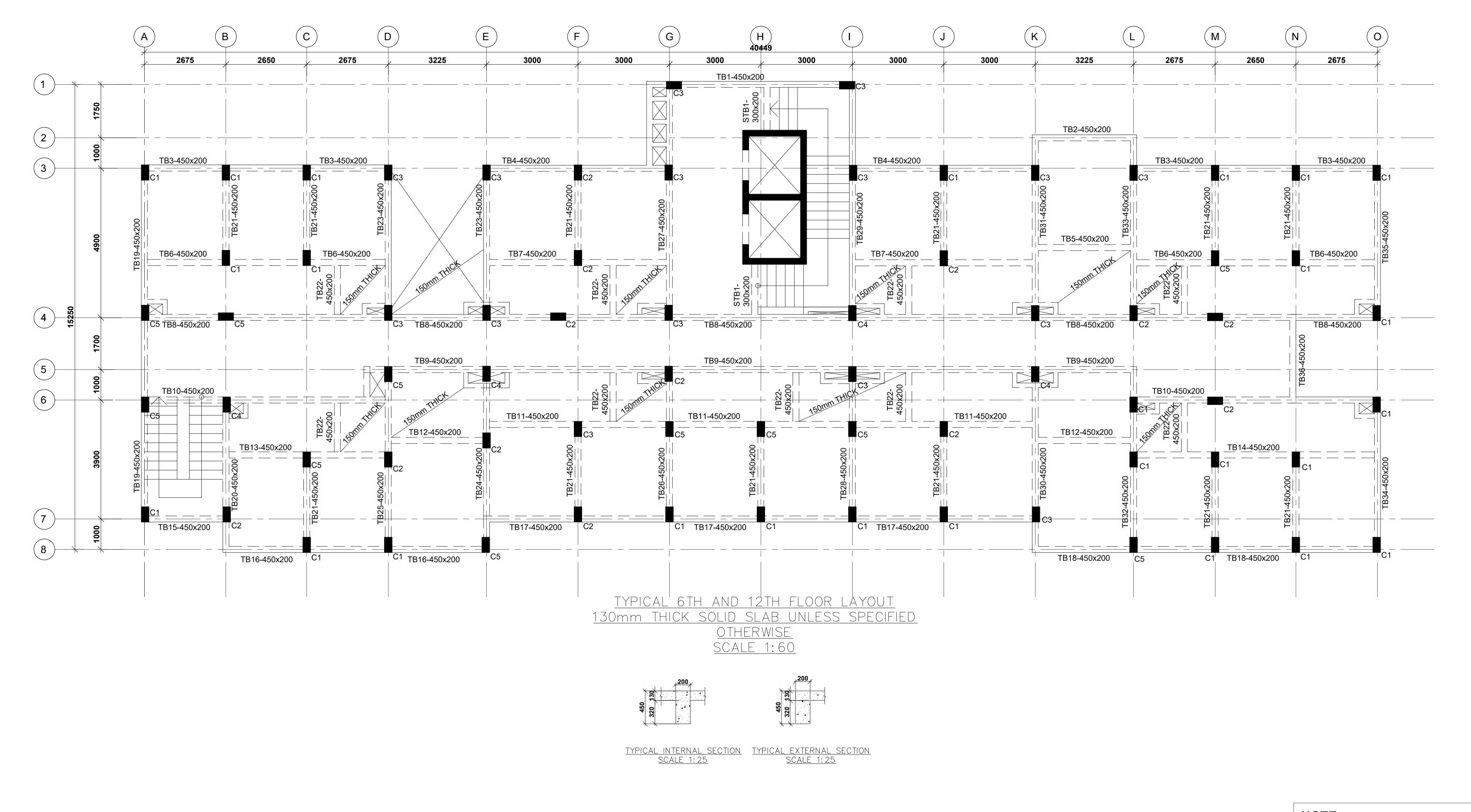
DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL SLAB DETAILS.



1. Foundations to be excavated to a minimum depth of 3.0m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

1. All dimensions are in millimetres unless otherwise stated.

2. All reinforcements must be checked and approved by project structural engineer

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 8. All structural steel be grade 43A. 4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick. 10. All structural steel to be painted with anti-rust primmer paint.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING AND URBAN

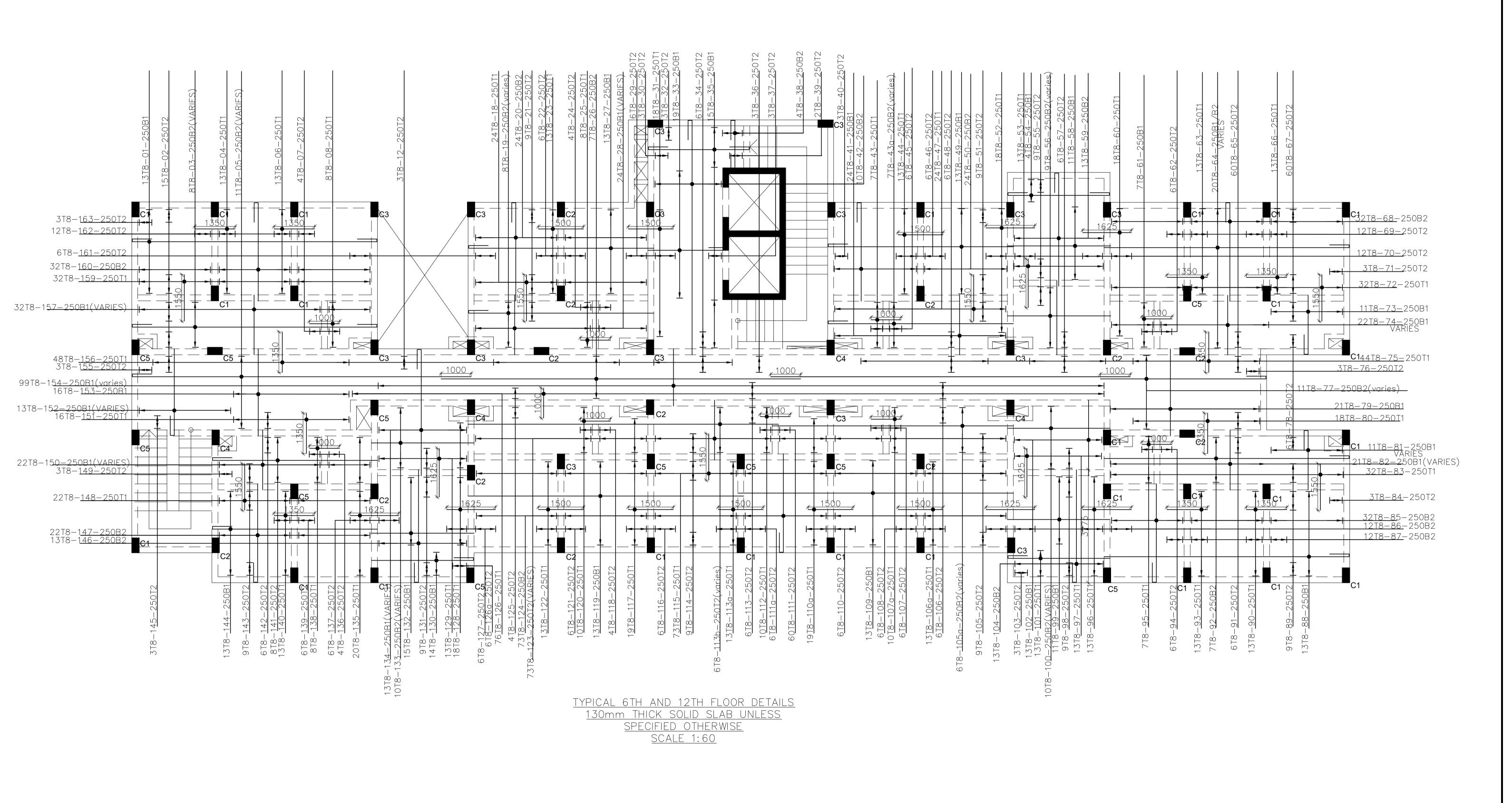
DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown

Drawing Number: AHP-G+14-BLK 01

PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL FLOOR LAYOUT.



2. All reinforcements must be checked and approved by project structural engineer

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 8. All structural steel be grade 43A.

4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face

B - Bottom face 7. Cover to reinforcement; Slabs - 20mm,
Beams - 25mm,Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick.

10. All structural steel to be painted with anti-rust primmer paint.

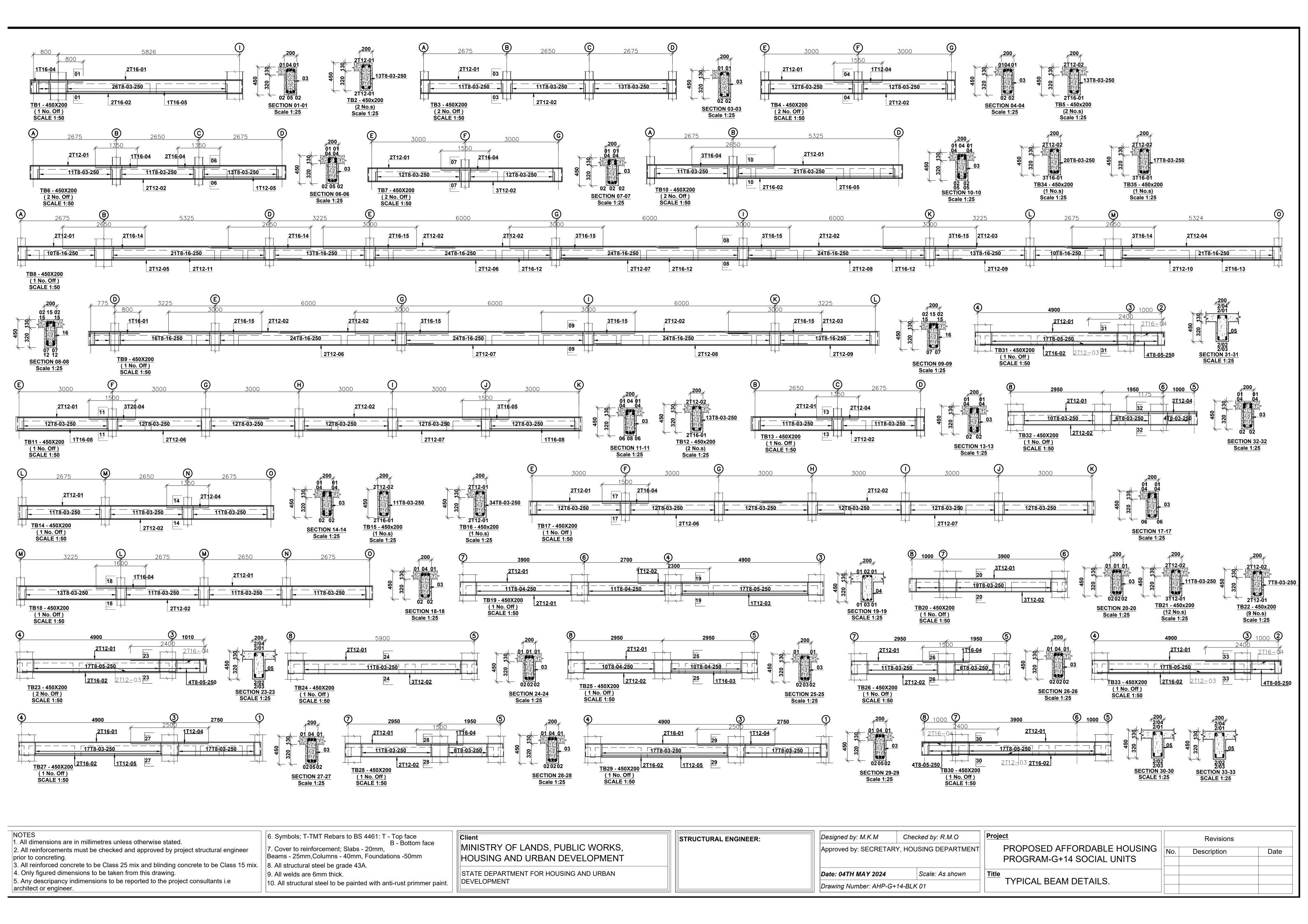
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

DEVELOPMENT

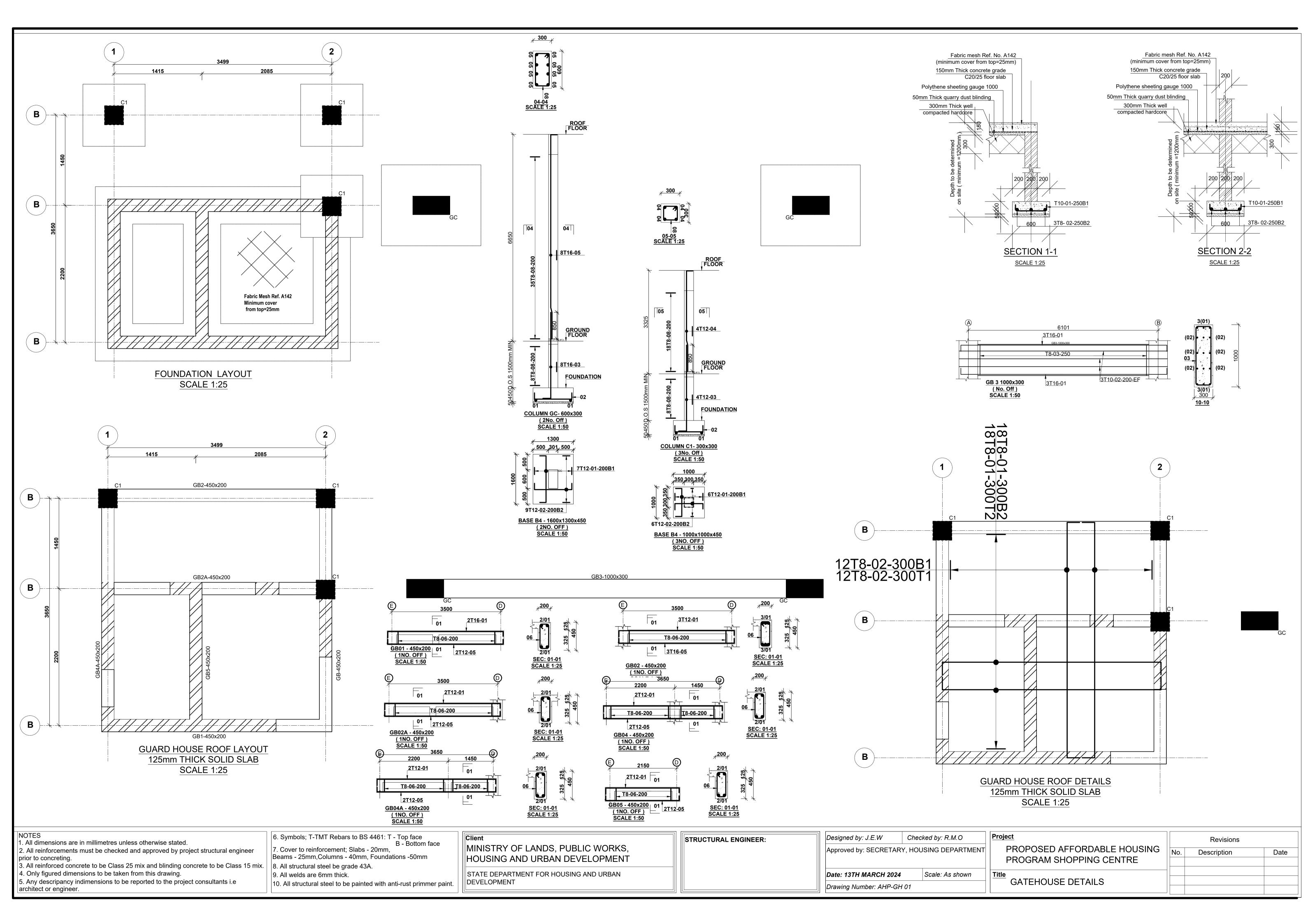
STRUCTURAL ENGINEER:

Designed by: M.K.M Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 04TH MAY 2024 Scale: As shown Drawing Number: AHP-G+14-BLK 01

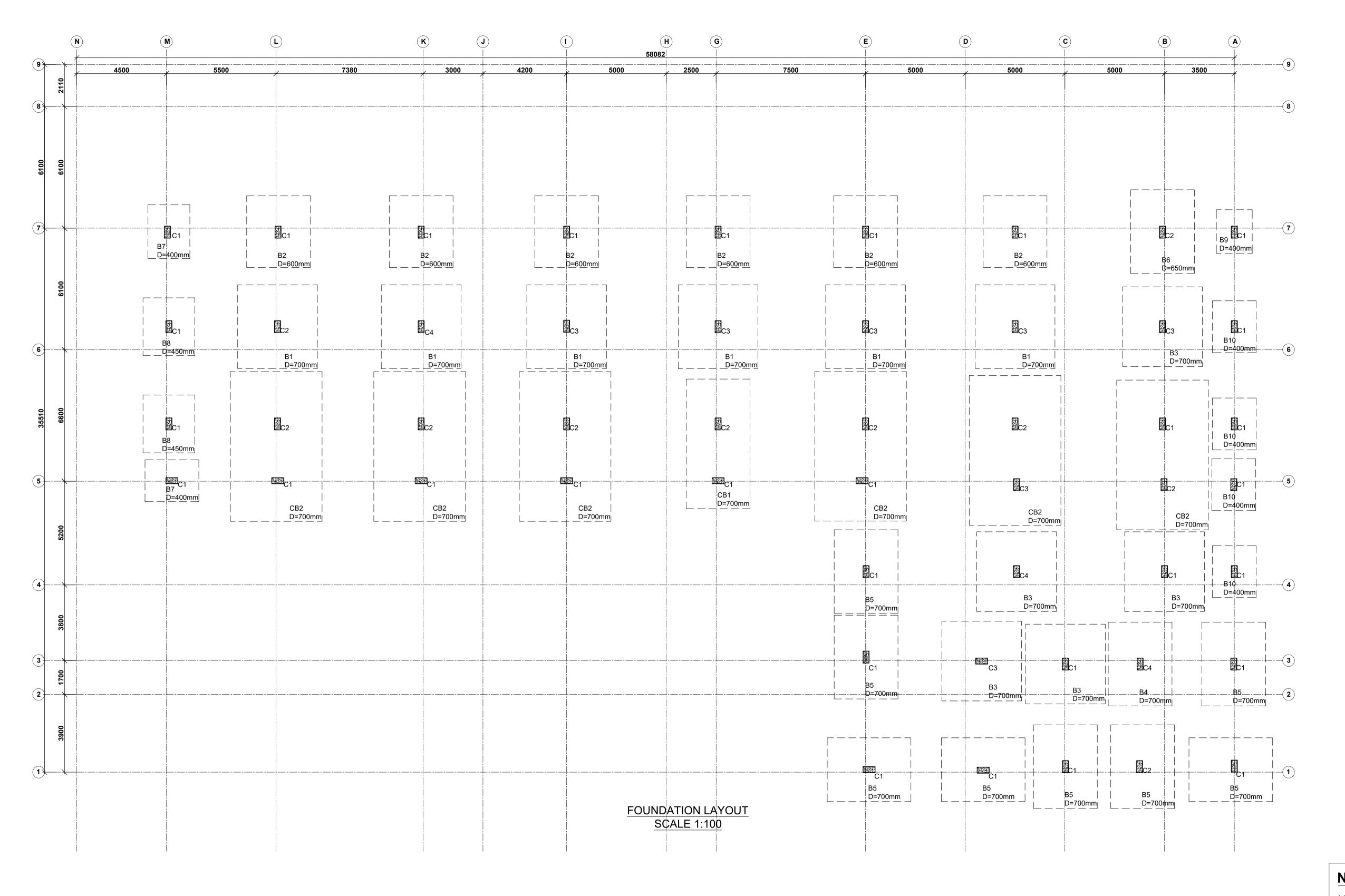
PROPOSED AFFORDABLE HOUSING No. PROGRAM-G+14 SOCIAL UNITS TYPICAL SLAB DETAILS.



GATE HOUSE







BASE SCHEDULE					
BASE TAG	SIZE	No.			
B1	4200x4000x700mm	6			
B2	3200x3600x600mm	6			
В3	4000x4000x700mm	5			
B4	4200x3200x700mm	1			
B5	4200x3200x700mm	5			
В6	4200x3200x650mm	1			
В7	2700x2100x400mm	2			
В8	2900x2600x400mm	2			
В9	2200x1800x400mm	1			
B10	2600x2200x400mm	4			
CB1	6500x3200x700mm	1			
CB2	7500x4600x700mm	6			

COLUMN SCHEDULE				
TAG	SIZE	No.		
C1	600x300	30		
C2	600x300	10		
С3	600x300	07		
C4	600x300	03		

1. Foundations to be excavated to a minimum depth of 3.5m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

1. All dimensions are in millimetres unless otherwise stated.

2. All reinforcements must be checked and approved by project structural engineer prior to concreting.

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 8. All structural steel be grade 43A.

4. Only figured dimensions to be taken from this drawing. 5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick. 10. All structural steel to be painted with anti-rust primmer paint.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: J.E.W Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT

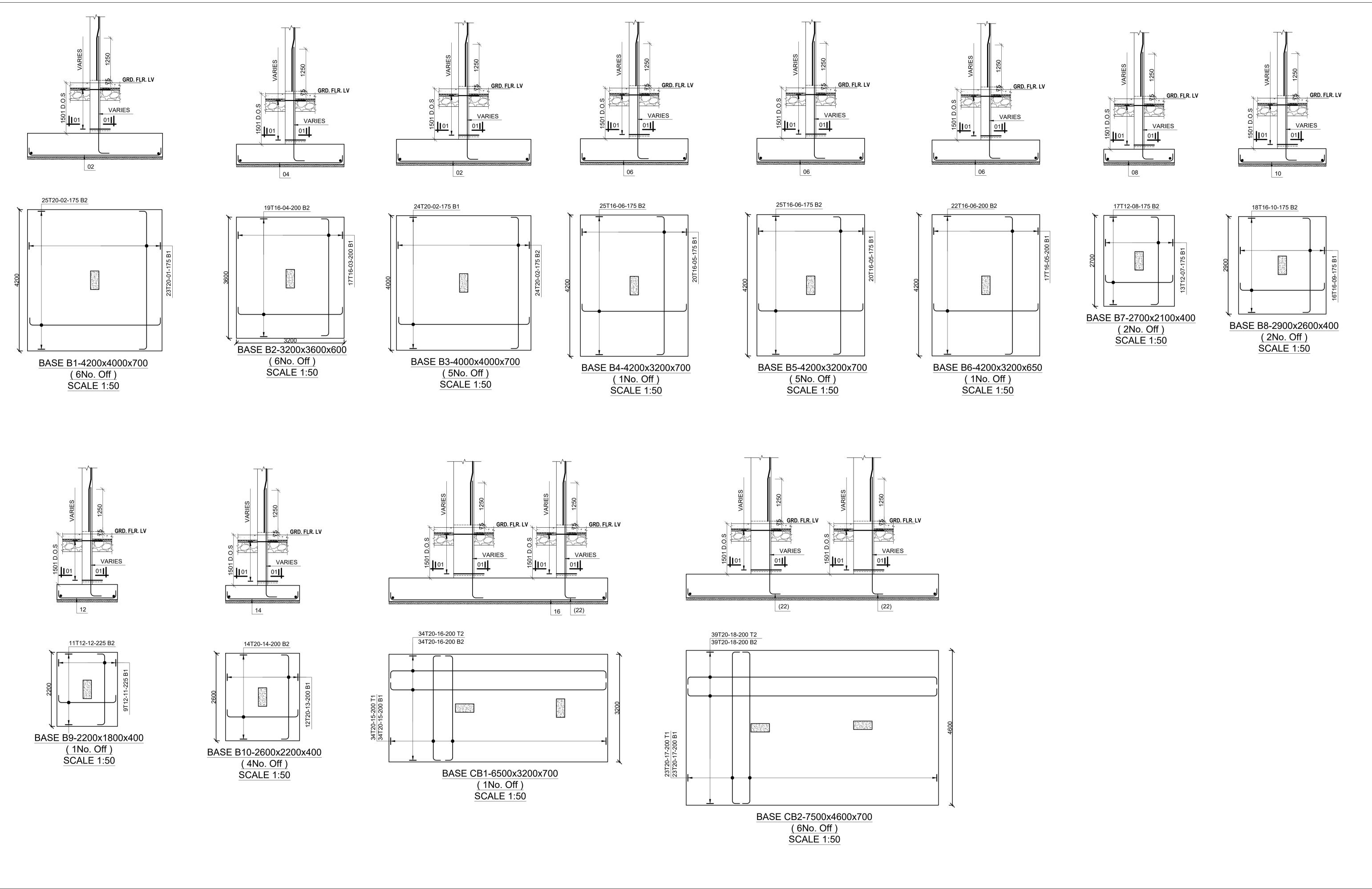
Date: 16TH MARCH 2024

Drawing Number: AHP-SC 01

Scale: As shown

PROPOSED AFFORDABLE HOUSING PROGRAM SHOPPING CENTRE

FOUNDATION LAYOUT



1. All dimensions are in millimetres unless otherwise stated. 7. Cover to reinforcement; Slabs - 20mm, 2. All reinforcements must be checked and approved by project structural engineer

prior to concreting. 3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix.

4. Only figured dimensions to be taken from this drawing. 5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

Beams - 25mm, Columns - 40mm, Foundations -50mm 8. All structural steel be grade 43A.

9. All welds are 6mm thick. 10. All structural steel to be painted with anti-rust primmer paint.

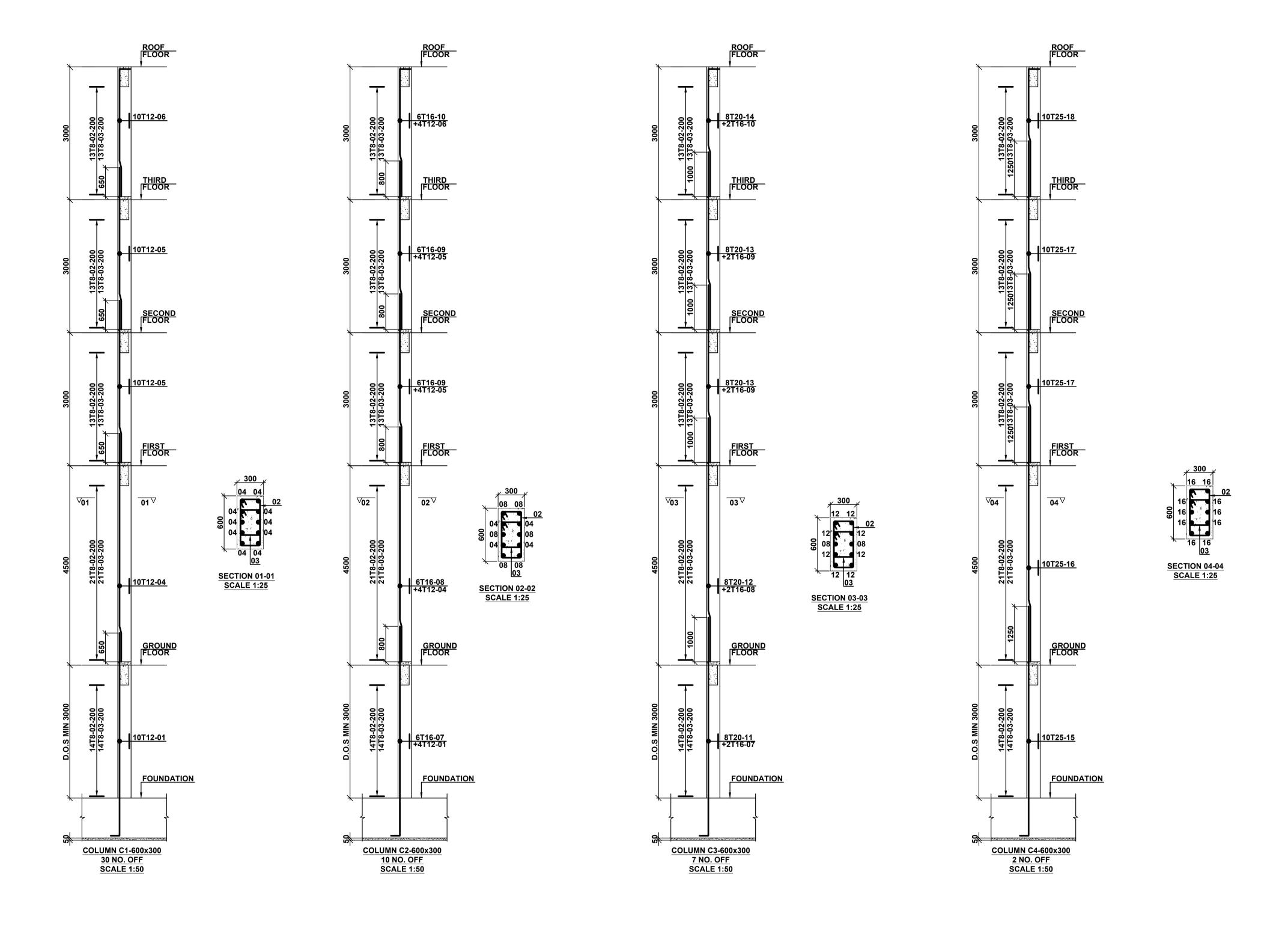
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

STRUCTURAL ENGINEER:

Checked by: R.M.O Designed by: J.E.W Approved by: SECRETARY, HOUSING DEPARTMENT Date: 16TH MARCH 2024 Scale: As shown

Drawing Number: AHP-SC 02

PROPOSED AFFORDABLE HOUSING PROGRAM SHOPPING CENTRE FOUNDATION DETAILS



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	_		

2. All reinforcements must be checked and approved by project structural engineer

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 8. All structural steel be grade 43A. 4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick.

10. All structural steel to be painted with anti-rust primmer paint.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN

DEVELOPMENT

STRUCTURAL ENGINEER:

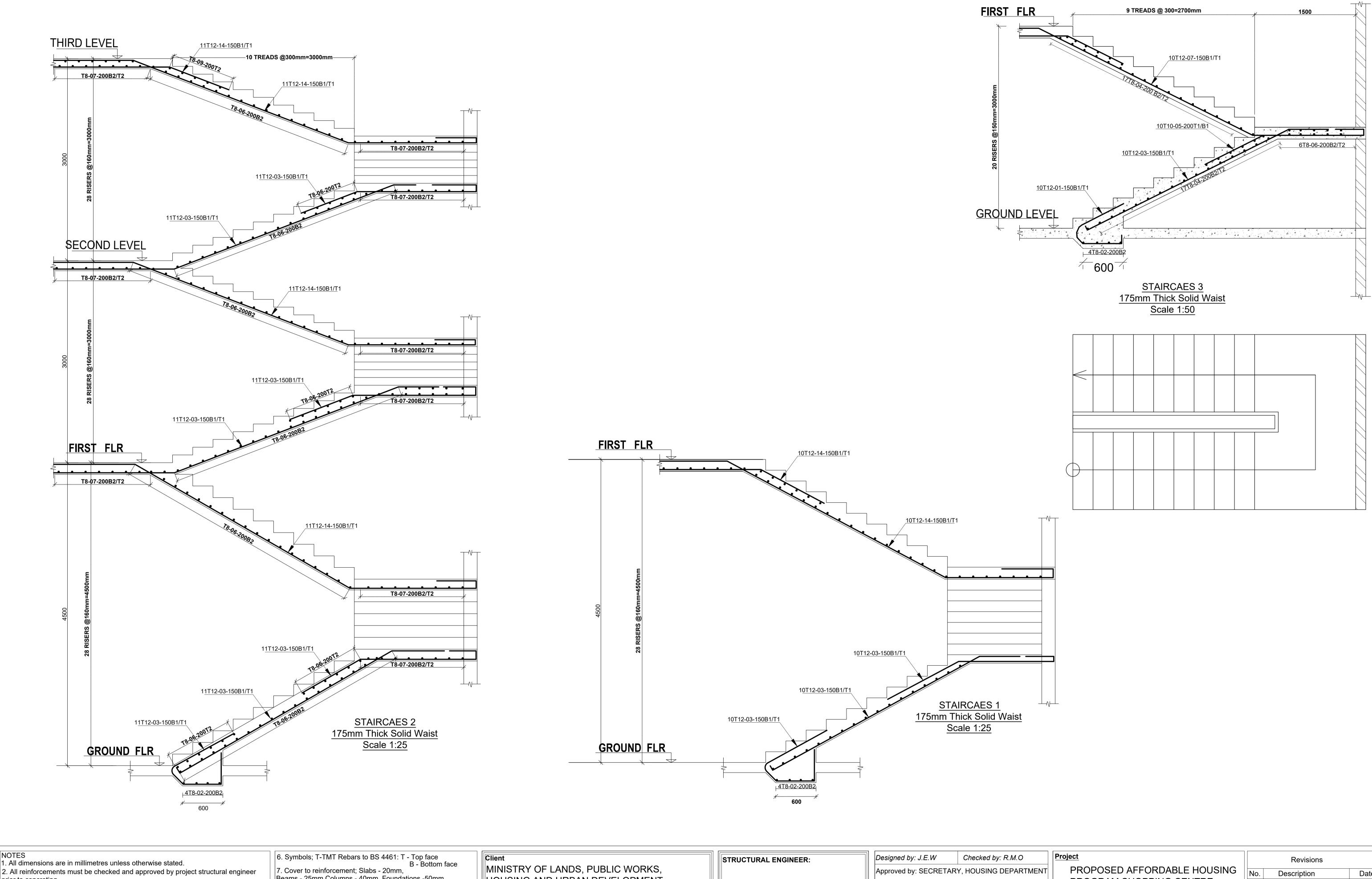
Designed by: J.E.W Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT

Scale: As shown

Date: 15TH MARCH 2024

Drawing Number: AHP-SC 03

PROPOSED AFFORDABLE HOUSING PROGRAM SHOPPING CENTRE COLUMN RC DETAILS



architect or engineer.

2. All reinforcements must be checked and approved by project structural engineer

prior to concreting.

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

8. All structural steel be grade 43A. 9. All welds are 6mm thick.

10. All structural steel to be painted with anti-rust primmer paint.

HOUSING AND URBAN DEVELOPMENT

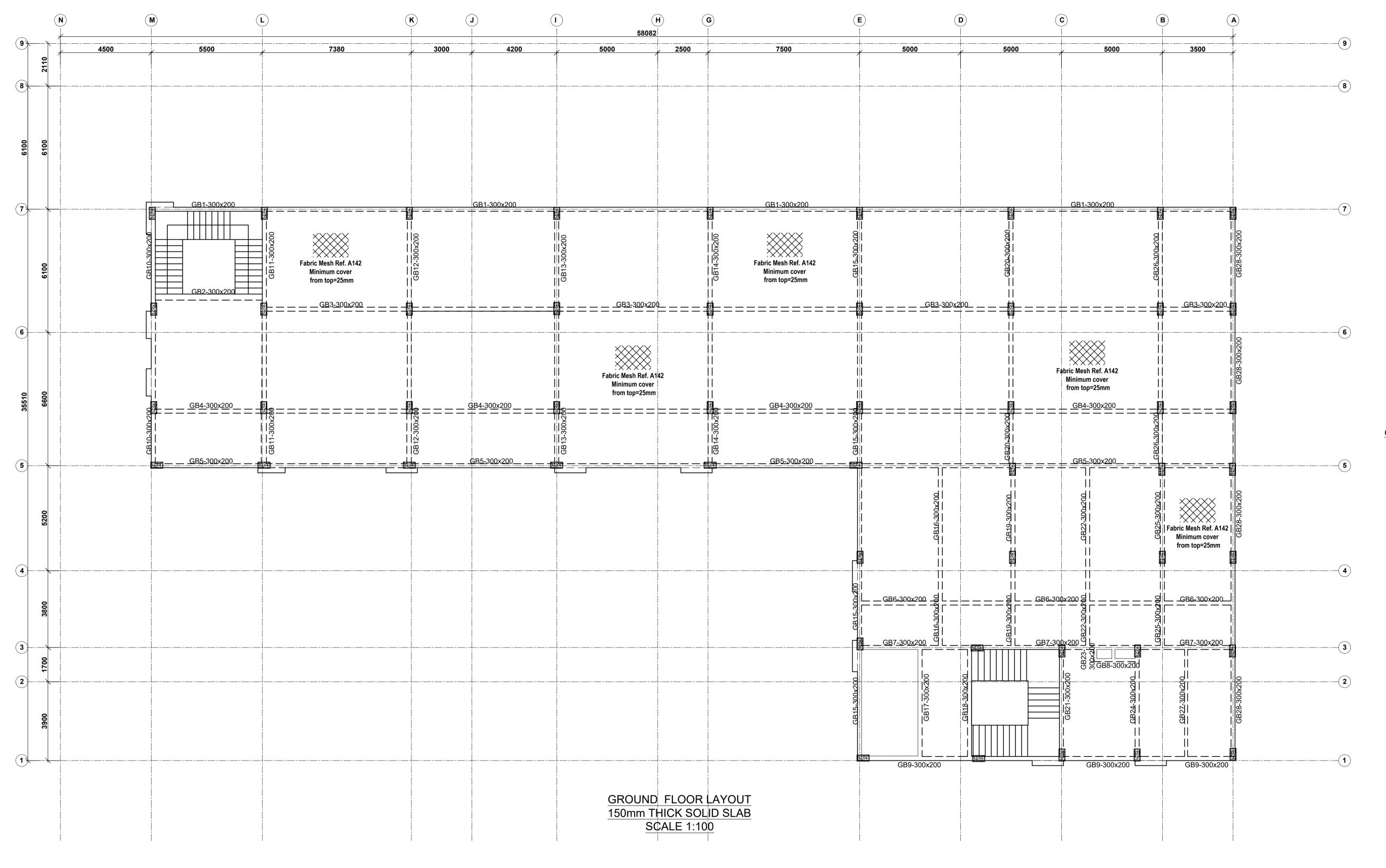
STATE DEPARTMENT FOR HOUSING AND URBAN

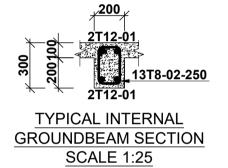
DEVELOPMENT

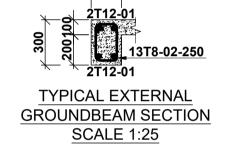
Scale: As shown Date: 13TH MARCH 2024

Drawing Number: AHP-SC 04

PROGRAM SHOPPING CENTRE STAIRCASE DETAILS



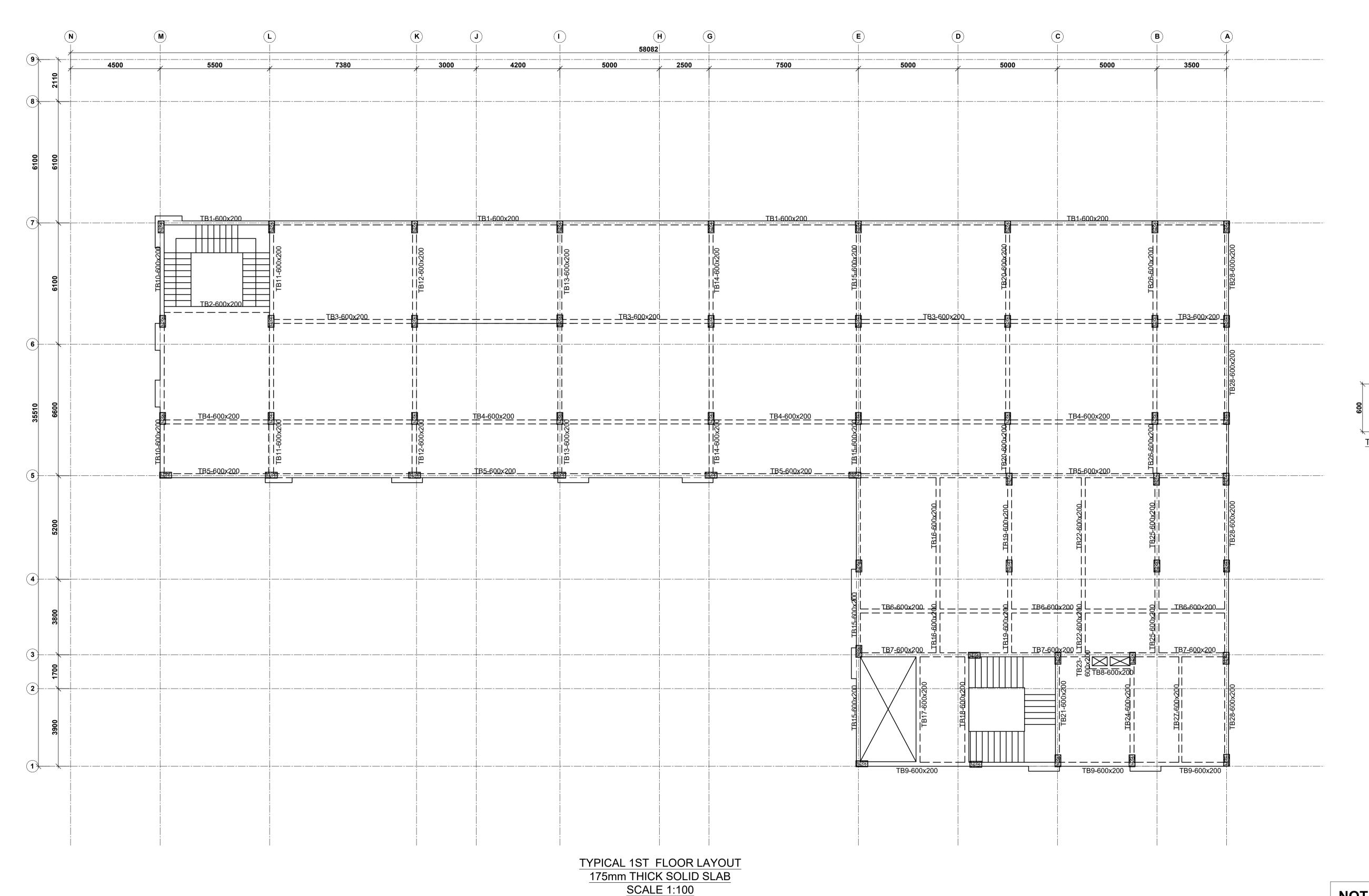




1. Foundations to be excavated to a minimum depth of 3.5m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

- 1	NOTES 1. All dimensions are in millimetres unless otherwise stated.		Client	STRUCTURAL ENGINEER:	Designed by: J.E.W	Checked by: R.M.O	<u>Project</u>	Revisions	
	2. All reinforcements must be checked and approved by project structural engineer	B - Bottom face 7. Cover to reinforcement; Slabs - 20mm,	MINISTRY OF LANDS, PUBLIC WORKS,		Approved by: SECRETAR	RY, HOUSING DEPARTMENT	PROPOSED AFFORDABLE HOUSING	No. Description	Date
	prior to concreting.	Beams - 25mm,Columns - 40mm, Foundations -50mm	HOUSING AND URBAN DEVELOPMENT				PROGRAM SHOPPING CENTRE	No. Description	Date
	3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix.	8. All structural steel be grade 43A.					1		
	4. Only figured dimensions to be taken from this drawing.	9. All welds are 6mm thick.	STATE DEPARTMENT FOR HOUSING AND URBAN		Date: 16TH MARCH 2024	Scale: As shown	<u>Title</u>		
	5. Any descripancy indimensions to be reported to the project consultants i.e	10. All structural steel to be painted with anti-rust primmer paint.	DEVELOPMENT		Drawing Number: AHD SC	2.05	GROUND SLAB LAYOUTS		
	architect or engineer.				Drawing Number: AHP-SC	, 05			

architect or engineer.



TYPICAL INTERNAL BEAM SECTION SCALE 1:25

BEAM SECTION SCALE 1:25

NOTE:

1. Foundations to be excavated to a minimum depth of 3.5m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

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1. All dimensions are in millimetres unless otherwise stated.

2. All reinforcements must be checked and approved by project structural engineer prior to concreting.

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. | 8. All structural steel be grade 43A.

4. Only figured dimensions to be taken from this drawing. 5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick. 10. All structural steel to be painted with anti-rust primmer paint.

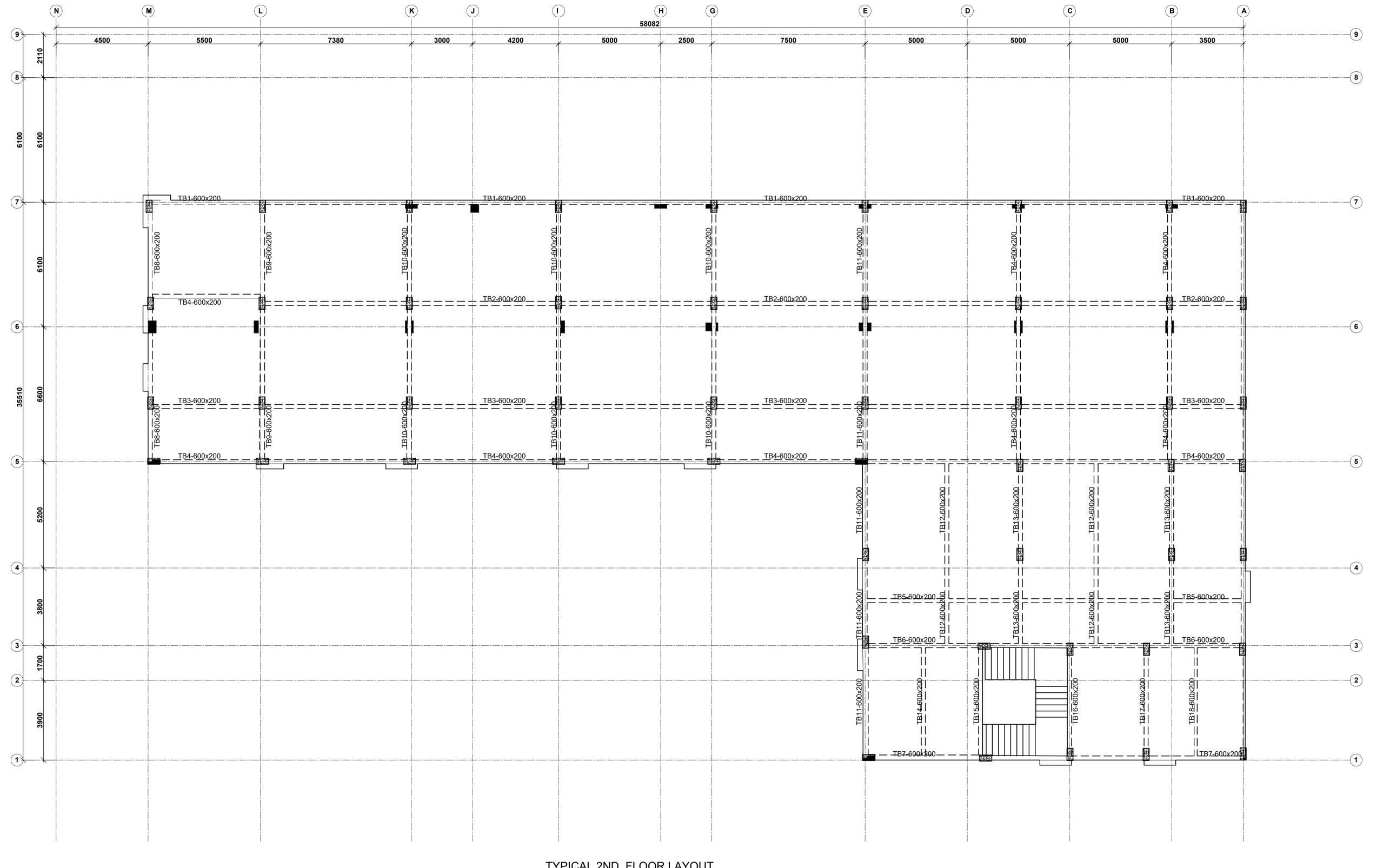
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

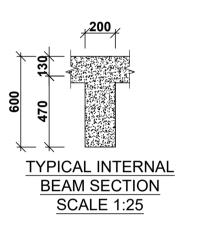
STRUCTURAL ENGINEER:

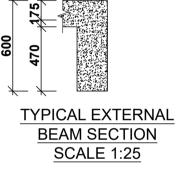
Designed by: J.E.W Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT Date: 16TH MARCH 2024 Scale: As shown

Drawing Number: AHP-SC 06

PROPOSED AFFORDABLE HOUSING PROGRAM SHOPPING CENTRE TYPICAL/ROOF SLAB LAYOUTS







TYPICAL 2ND FLOOR LAYOUT 175mm THICK SOLID SLAB SCALE 1:100

NOTE:

1. Foundations to be excavated to a minimum depth of 3.5m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

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architect or engineer.

ensions are in millimetres unless otherwise stated.

2. All reinforcements must be checked and approved by project structural engineer prior to concreting.

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. | 8. All structural steel be grade 43A. 4. Only figured dimensions to be taken from this drawing. 5. Any descripancy indimensions to be reported to the project consultants i.e

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

9. All welds are 6mm thick. 10. All structural steel to be painted with anti-rust primmer paint.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

STRUCTURAL ENGINEER:

Designed by: J.E.W Checked by: R.M.O Approved by: SECRETARY, HOUSING DEPARTMENT

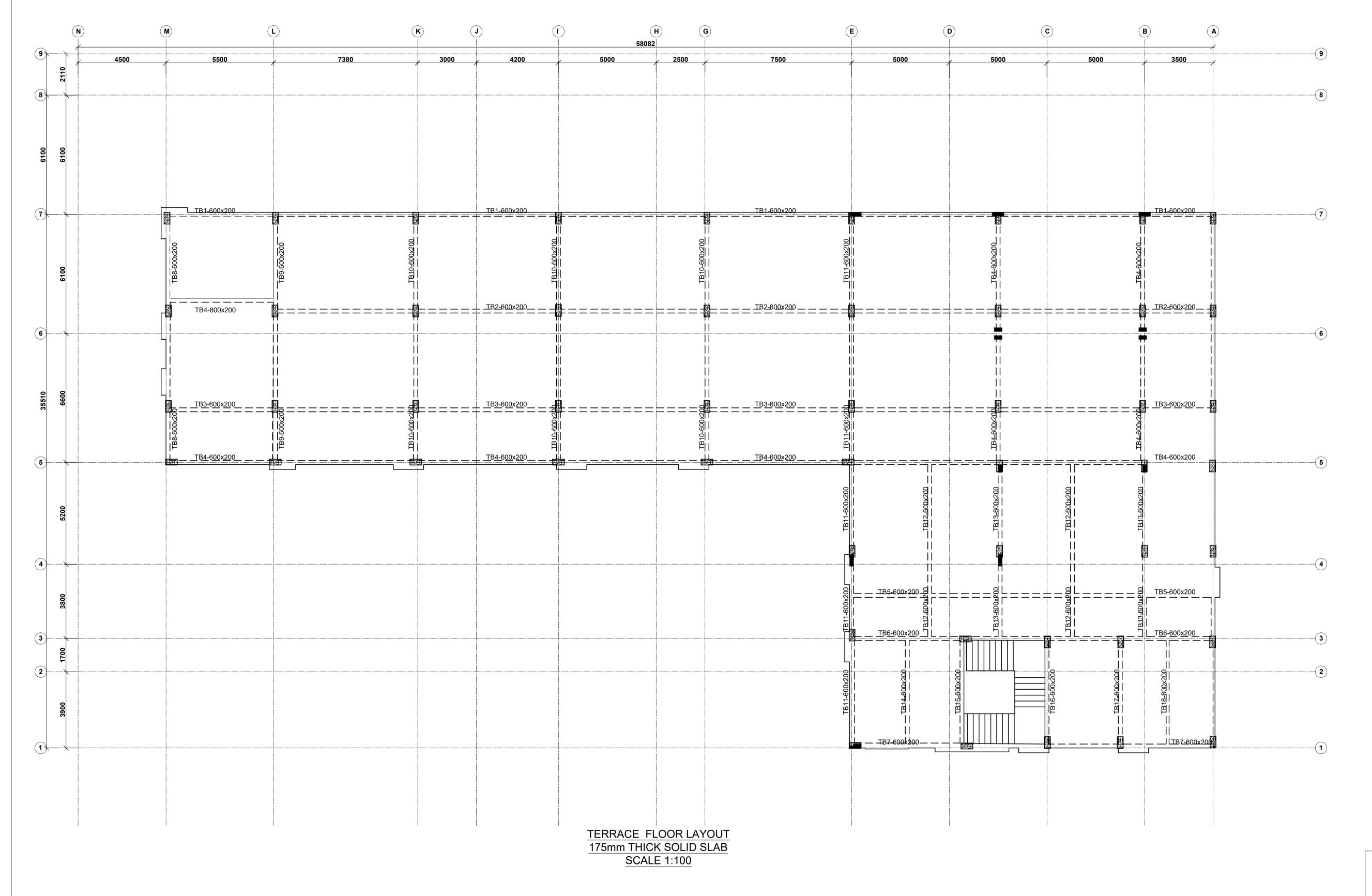
Scale: As shown

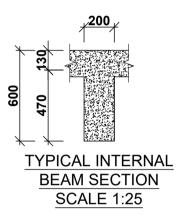
Date: 16TH MARCH 2024

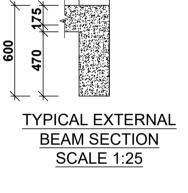
Drawing Number: AHP-SC 07

PROPOSED AFFORDABLE HOUSING PROGRAM SHOPPING CENTRE

TYPICAL/ROOF SLAB LAYOUTS







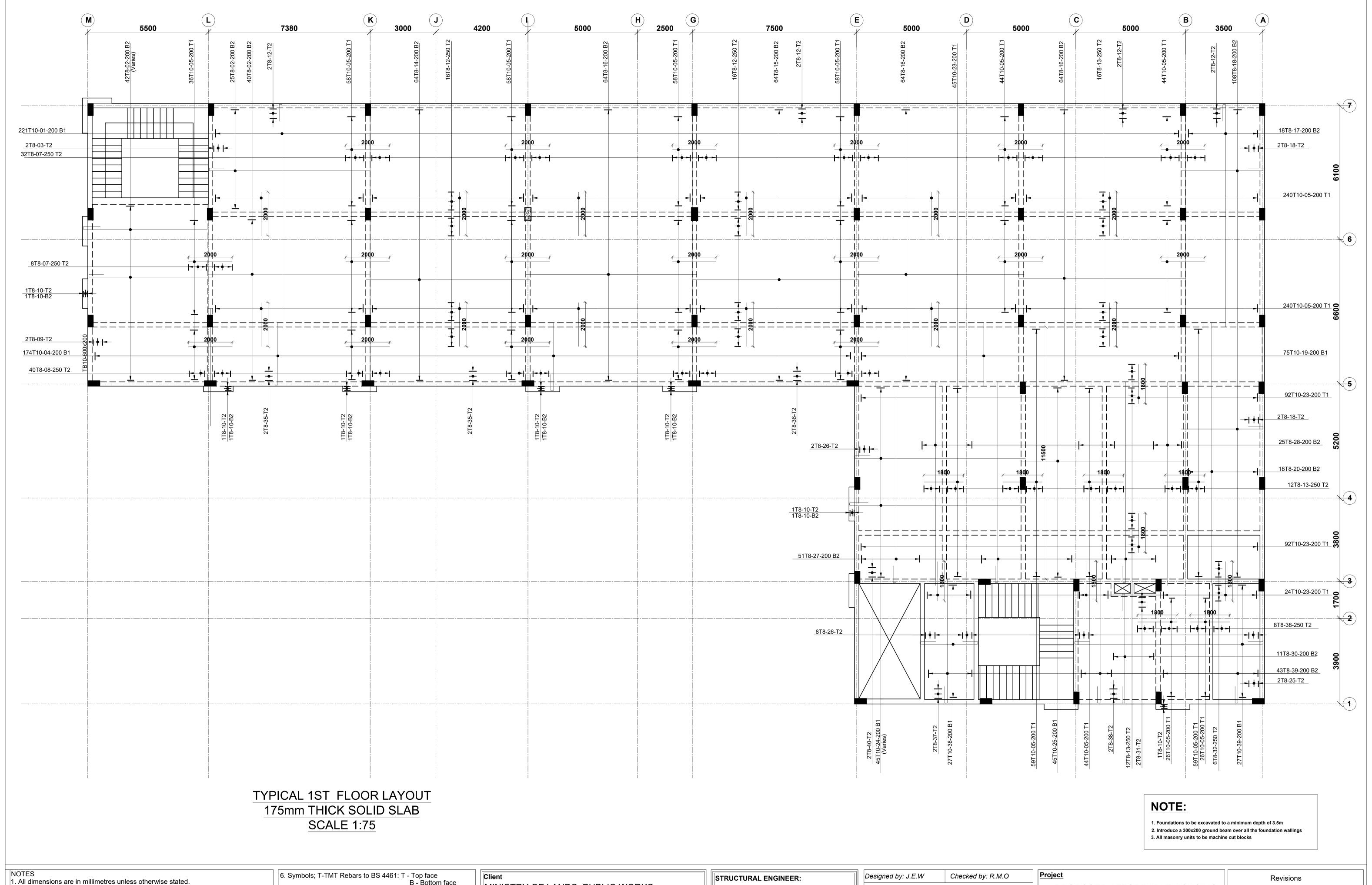
1. Foundations to be excavated to a minimum depth of 3.5m 2. Introduce a 300x200 ground beam over all the foundation wallings 3. All masonry units to be machine cut blocks

NOTES 1. All dimensions are in millimetres unless otherwise stated.	6. Symbols; T-TMT Rebars to BS 4461: T - Top face	Client	STRUCTURAL ENGINEER:	Designed by: J.E.W	Checked by: R.M.O	Project
2. All reinforcements must be checked and approved by project structural engineer	7. Cover to reinforcement; Slabs - 20mm,	MINISTRY OF LANDS, PUBLIC WORKS,		Approved by: SECRETAR	Y, HOUSING DEPARTMENT	PROPOSED AFFO
prior to concreting.	Beams - 25mm,Columns - 40mm, Foundations -50mm	HOUSING AND URBAN DEVELOPMENT				PROGRAM SHOP
3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix.	8. All structural steel be grade 43A.					

4. Only figured dimensions to be taken from this drawing. 9. All welds are 6mm thick. STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT 5. Any descripancy indimensions to be reported to the project consultants i.e 10. All structural steel to be painted with anti-rust primmer paint. architect or engineer.

Date: 16TH MARCH 2024 Scale: As shown Drawing Number: AHP-SC 08

Revisions FORDABLE HOUSING Description PPING CENTRE TYPICAL/ROOF SLAB LAYOUTS



architect or engineer.

2. All reinforcements must be checked and approved by project structural engineer prior to concreting.

3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 4. Only figured dimensions to be taken from this drawing.

5. Any descripancy indimensions to be reported to the project consultants i.e

B - Bottom face

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm 8. All structural steel be grade 43A.

9. All welds are 6mm thick. 10. All structural steel to be painted with anti-rust primmer paint.

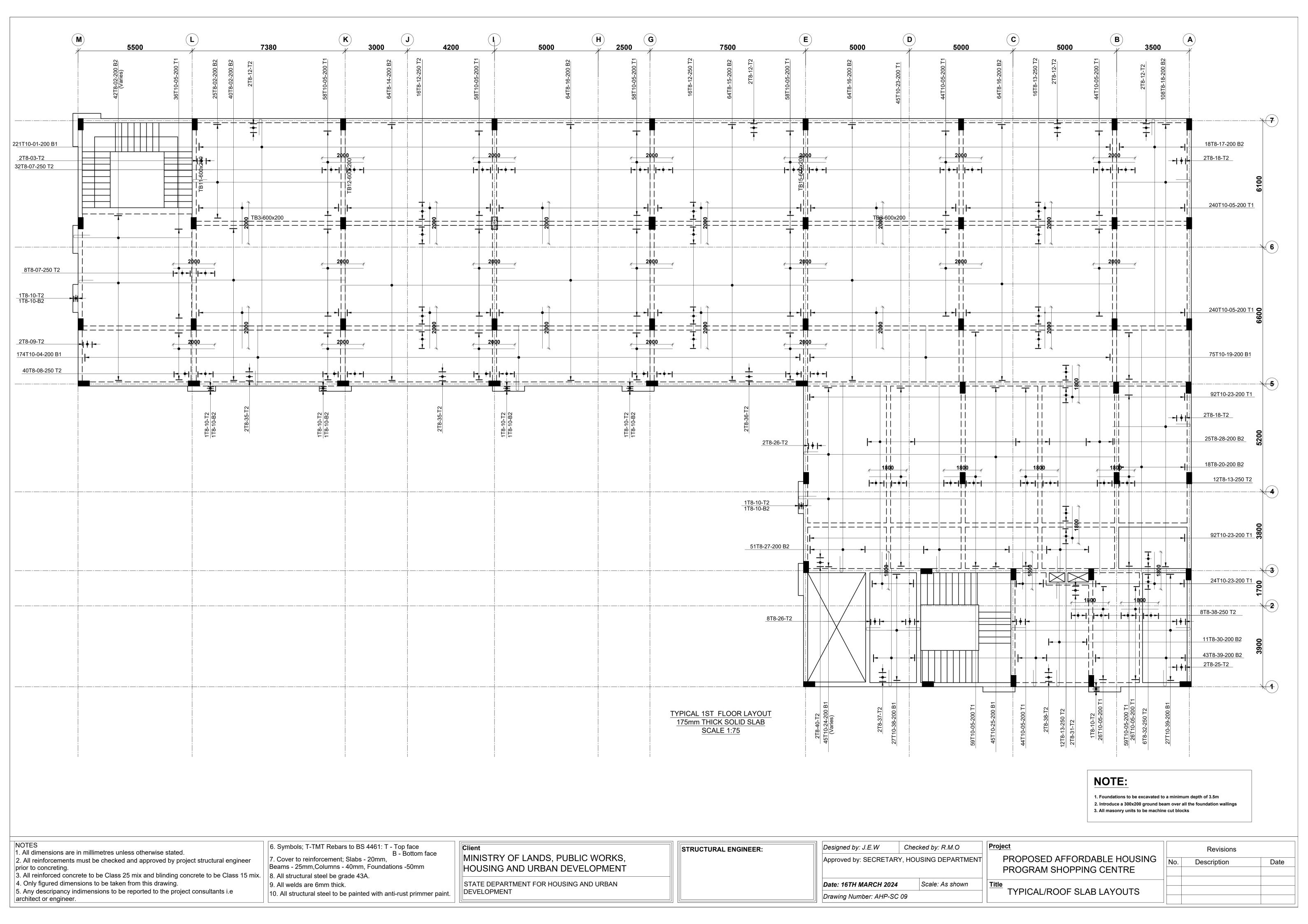
MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

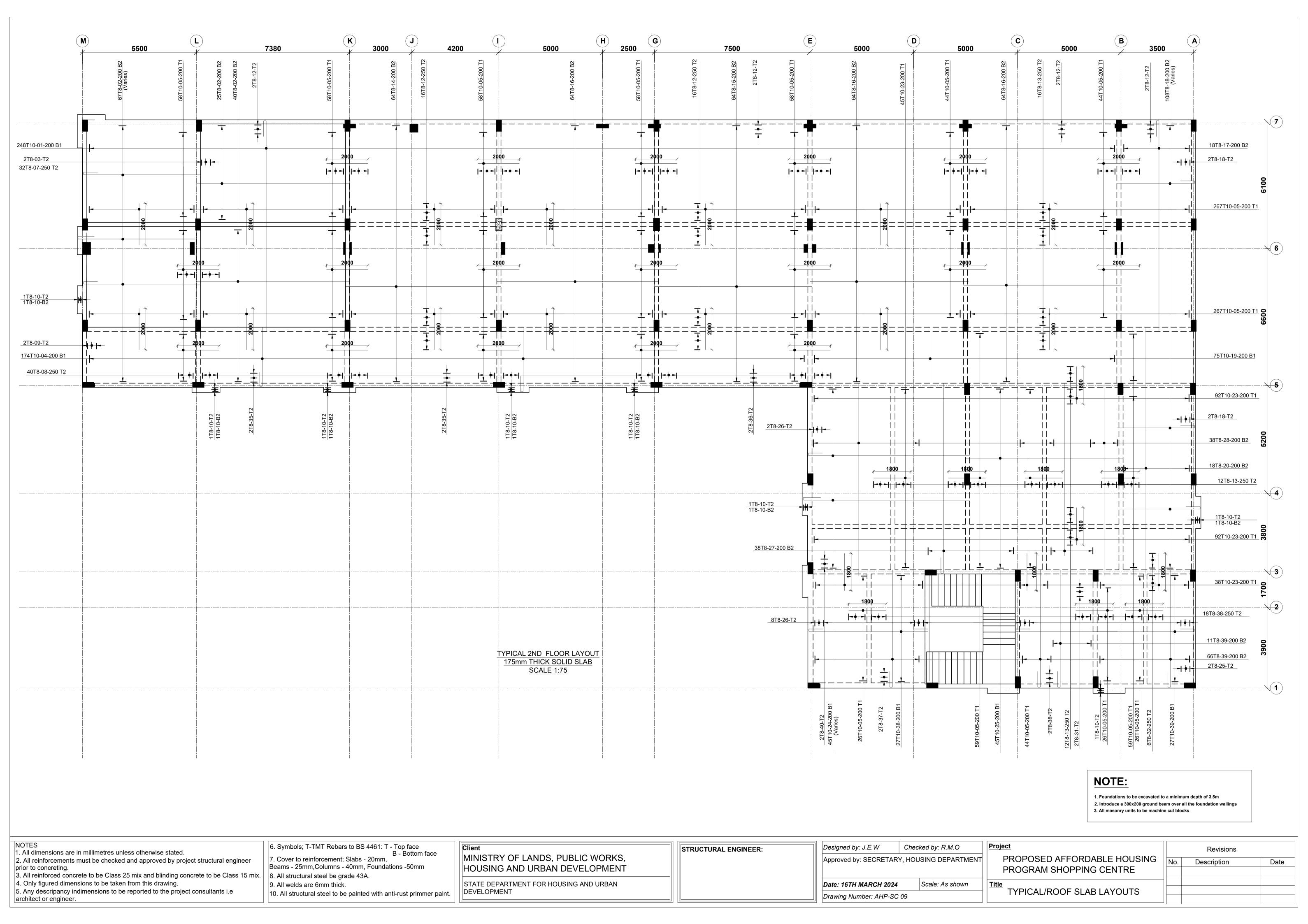
Approved by: SECRETARY, HOUSING DEPARTMENT Scale: As shown Date: 16TH MARCH 2024

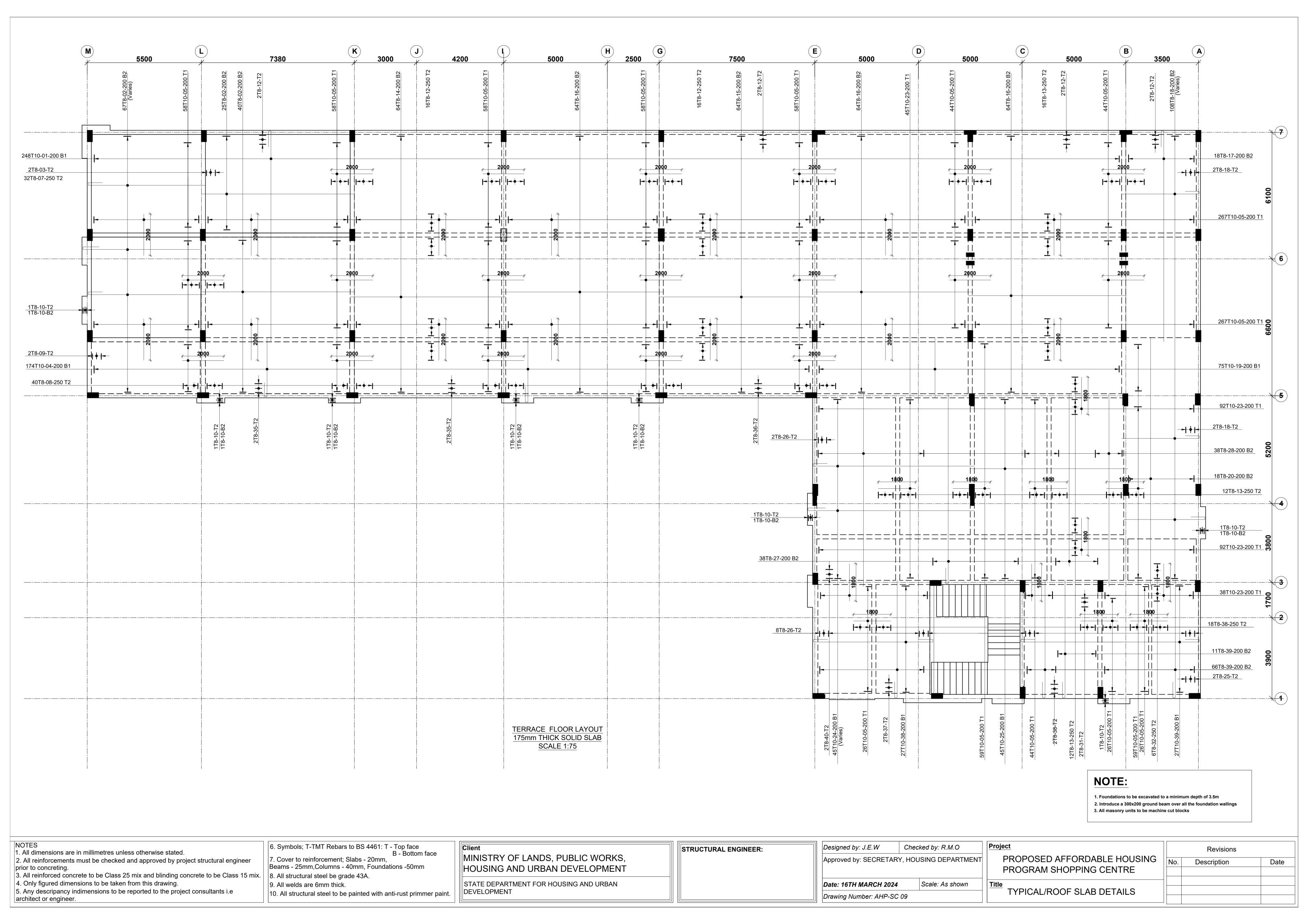
Drawing Number: AHP-SC 09

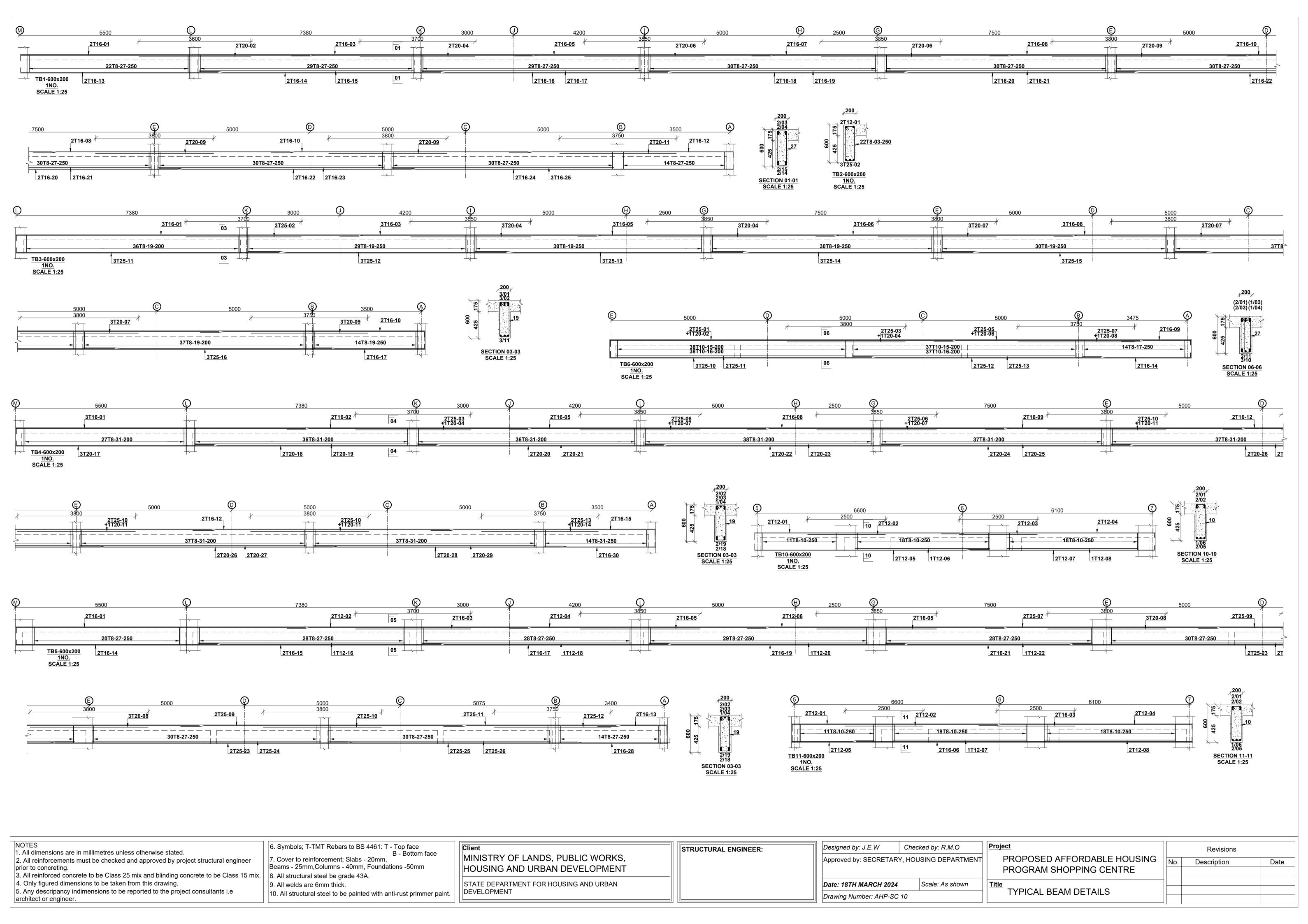
PROPOSED AFFORDABLE HOUSING PROGRAM SHOPPING CENTRE TYPICAL/ROOF SLAB LAYOUTS

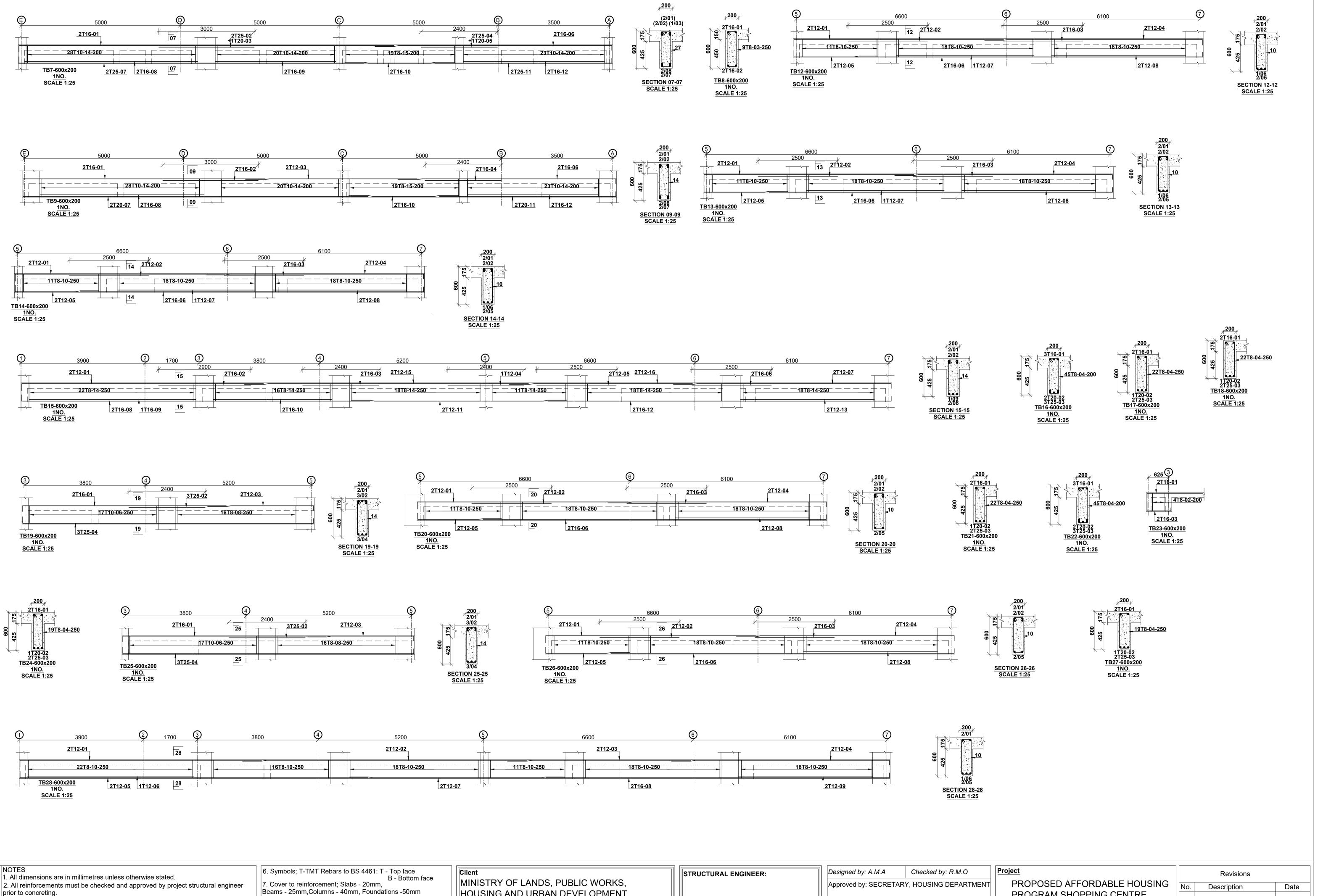
Description











3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix. 4. Only figured dimensions to be taken from this drawing. 5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

8. All structural steel be grade 43A. 9. All welds are 6mm thick.

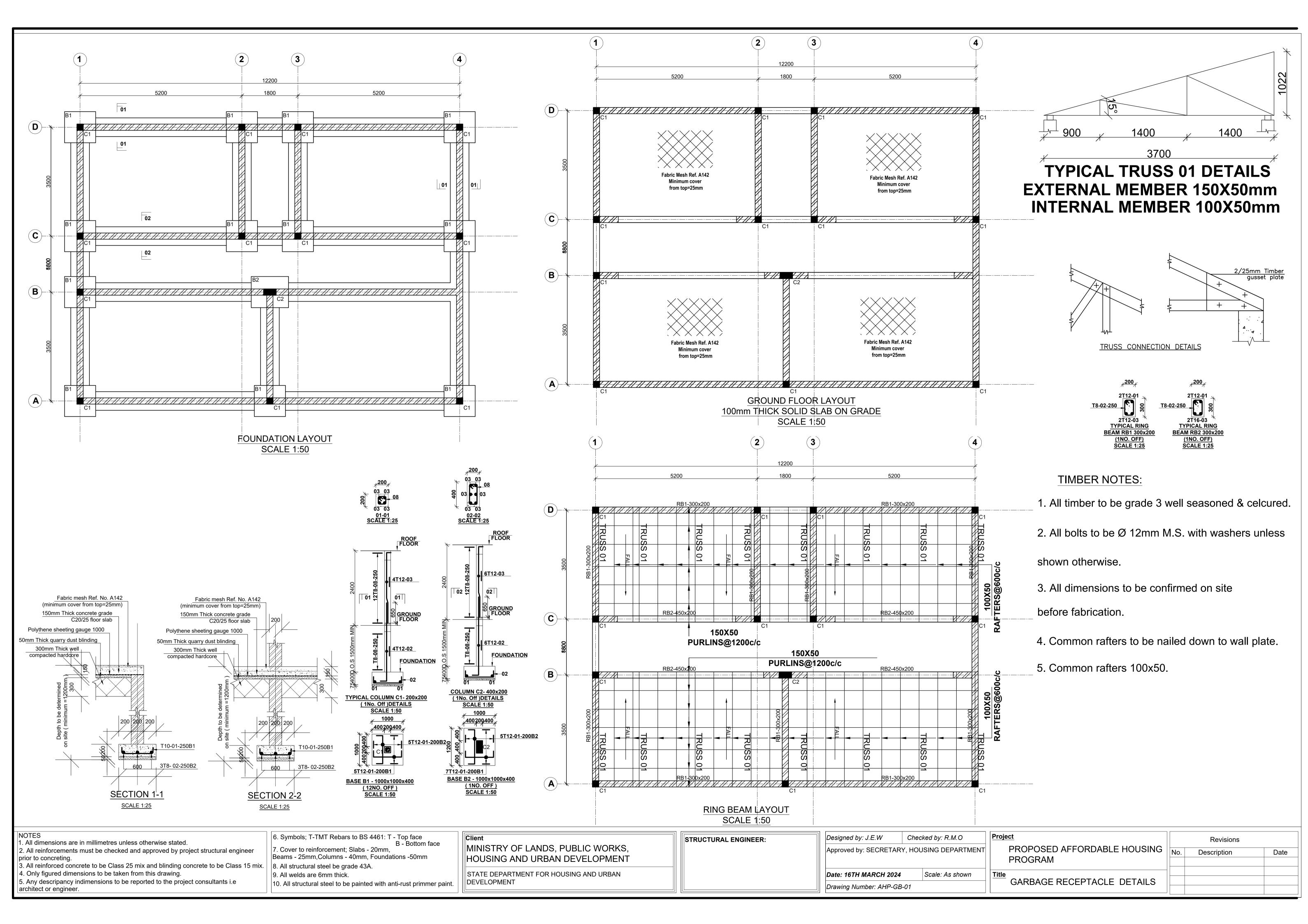
10. All structural steel to be painted with anti-rust primmer paint.

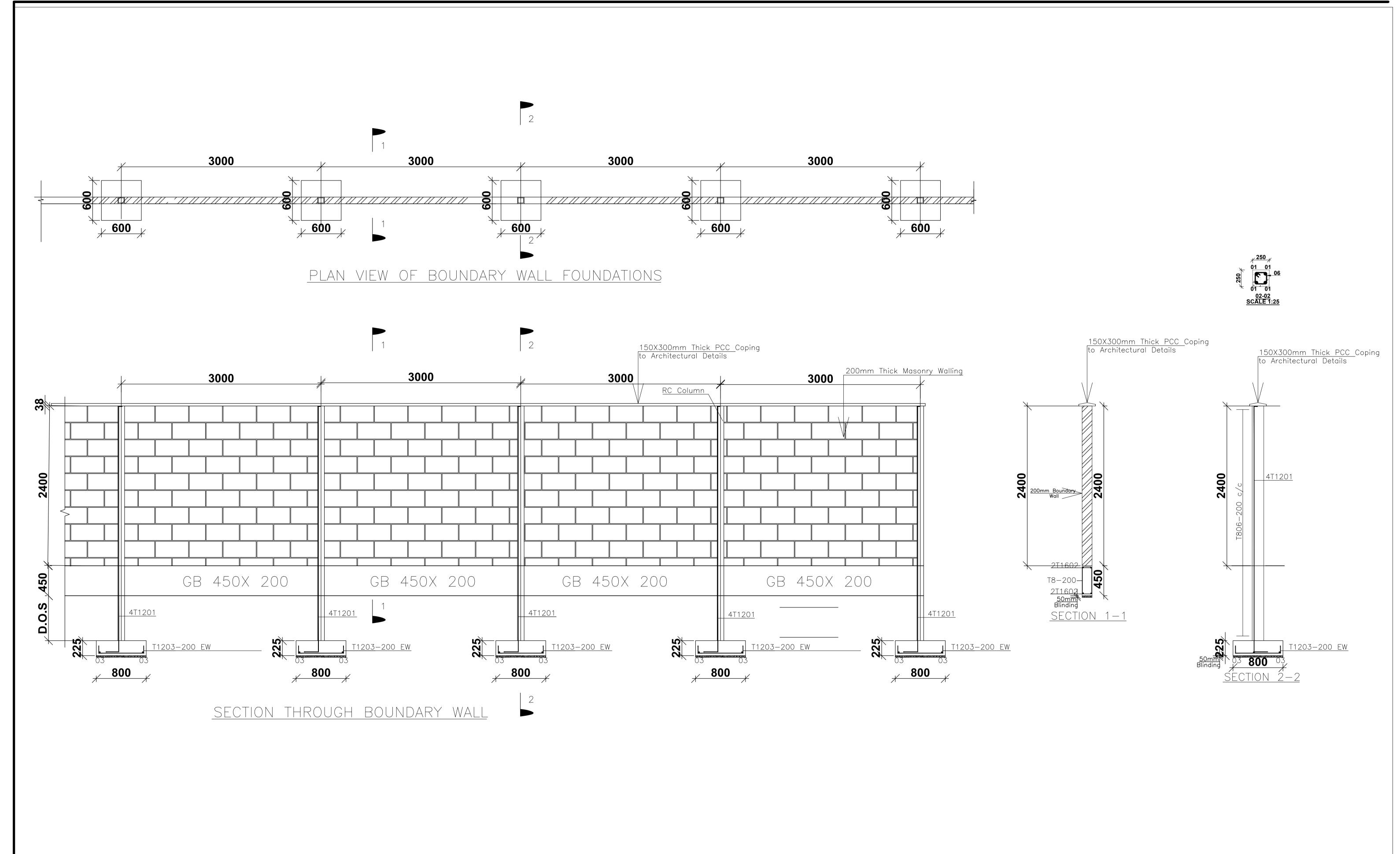
HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Drawing Number: AHP-SC 11

Date: 18TH MARCH 2024 Scale: As shown PROGRAM SHOPPING CENTRE TYPICAL BEAM DETAILS 2







2. All reinforcements must be checked and approved by project structural engineer 3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix.

4. Only figured dimensions to be taken from this drawing. 5. Any descripancy indimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; T-TMT Rebars to BS 4461: T - Top face B - Bottom face

7. Cover to reinforcement; Slabs - 20mm, Beams - 25mm, Columns - 40mm, Foundations -50mm

8. All structural steel be grade 43A. 9. All welds are 6mm thick.

10. All structural steel to be painted with anti-rust primmer paint.

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING AND URBAN

DEVELOPMENT

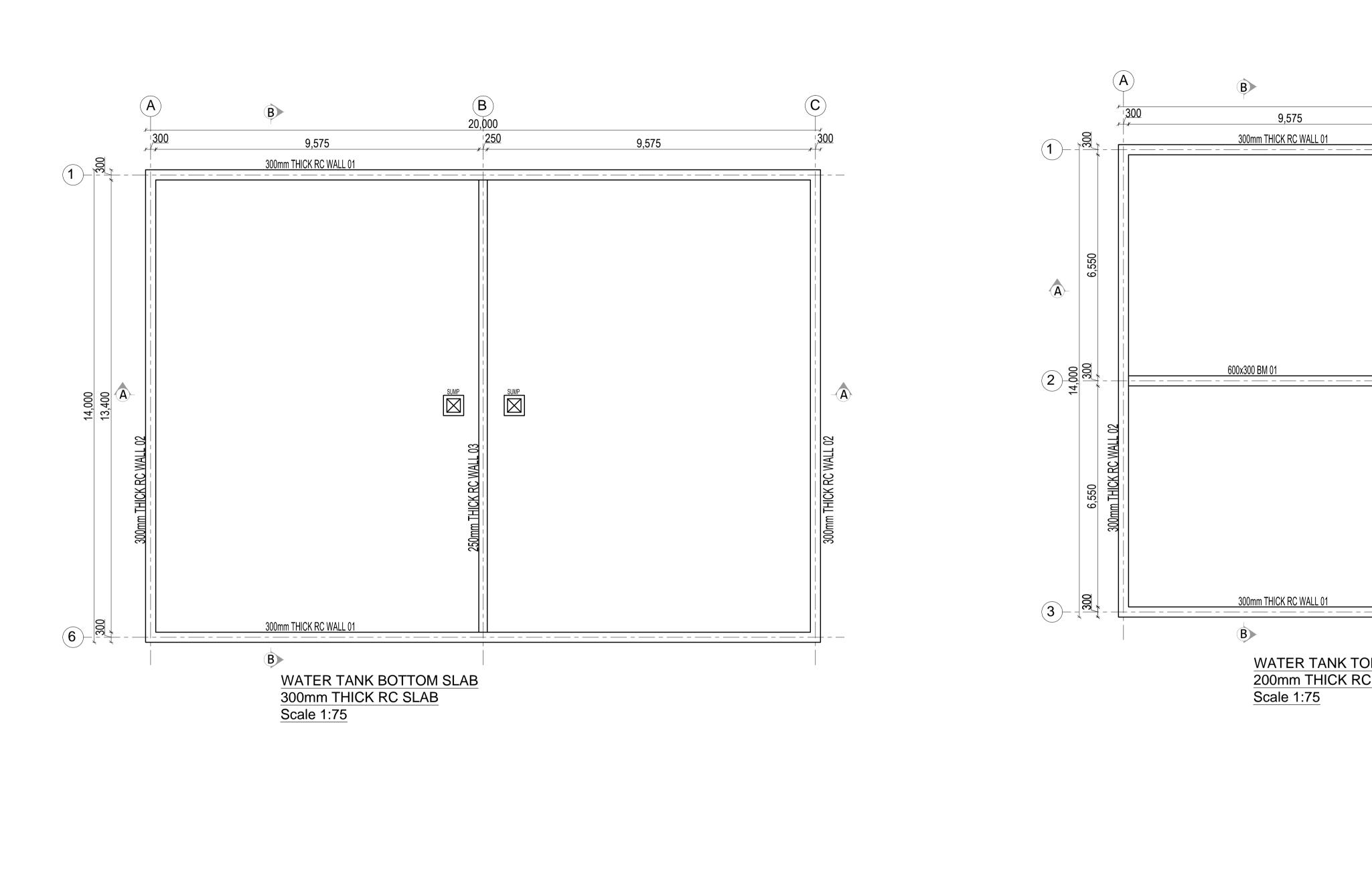
STRUCTURAL ENGINEER:

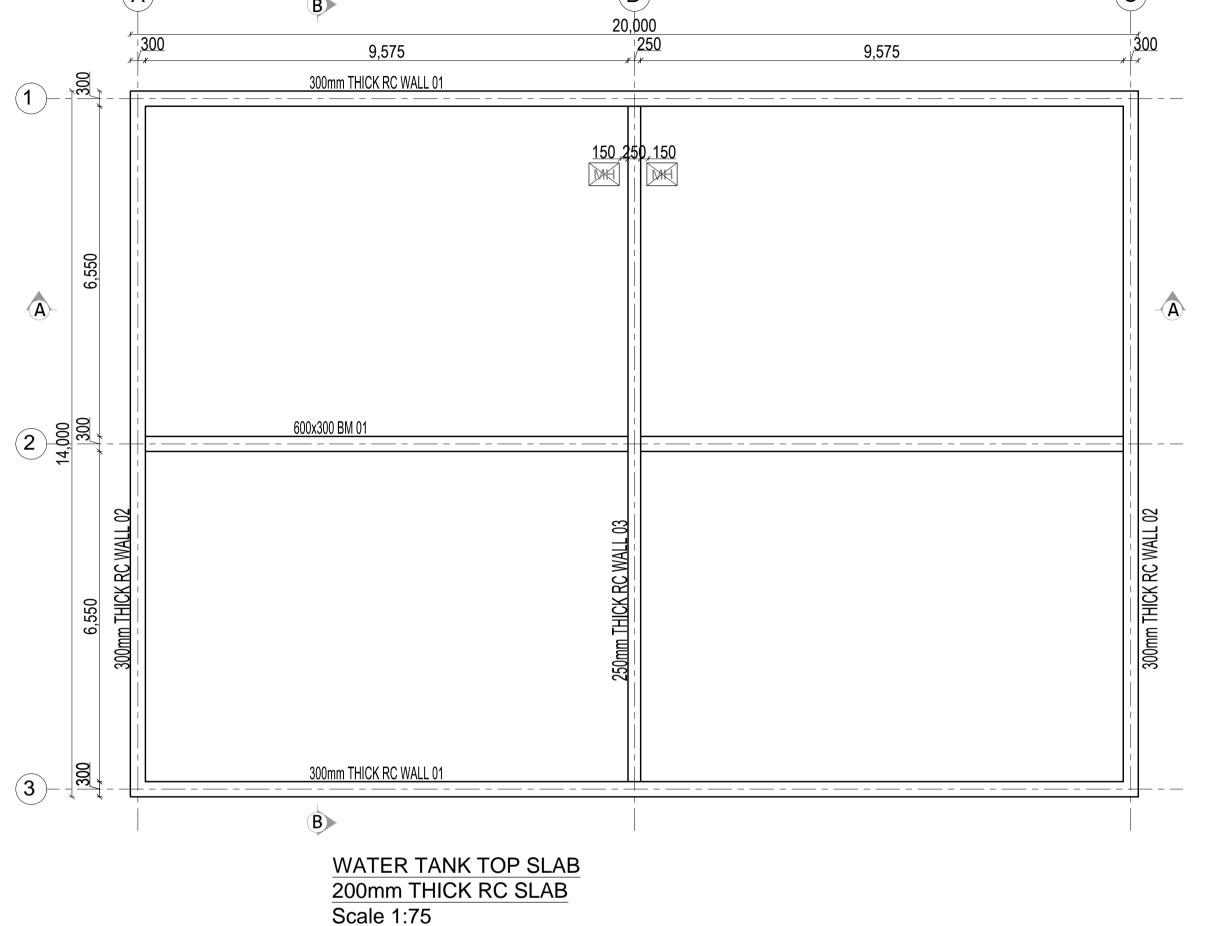
Checked by: R.M.O Designed by: J.E.W Approved by: SECRETARY, HOUSING DEPARTMENT Scale: As shown Date: 16TH MARCH 2024

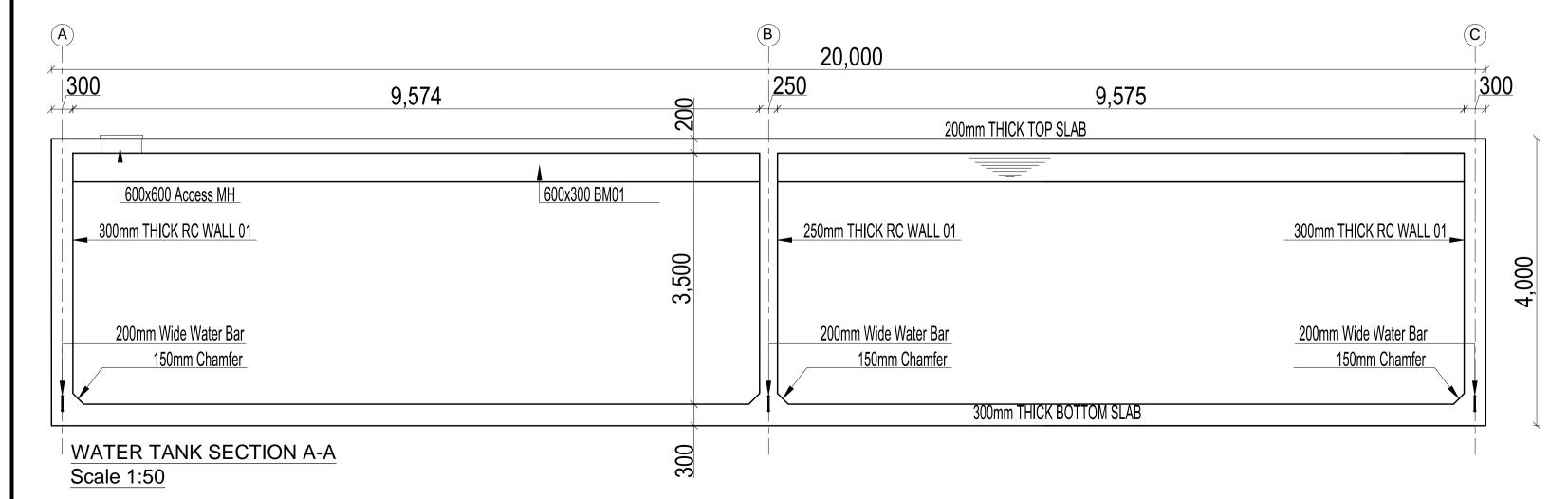
Drawing Number: AHP-GB-02

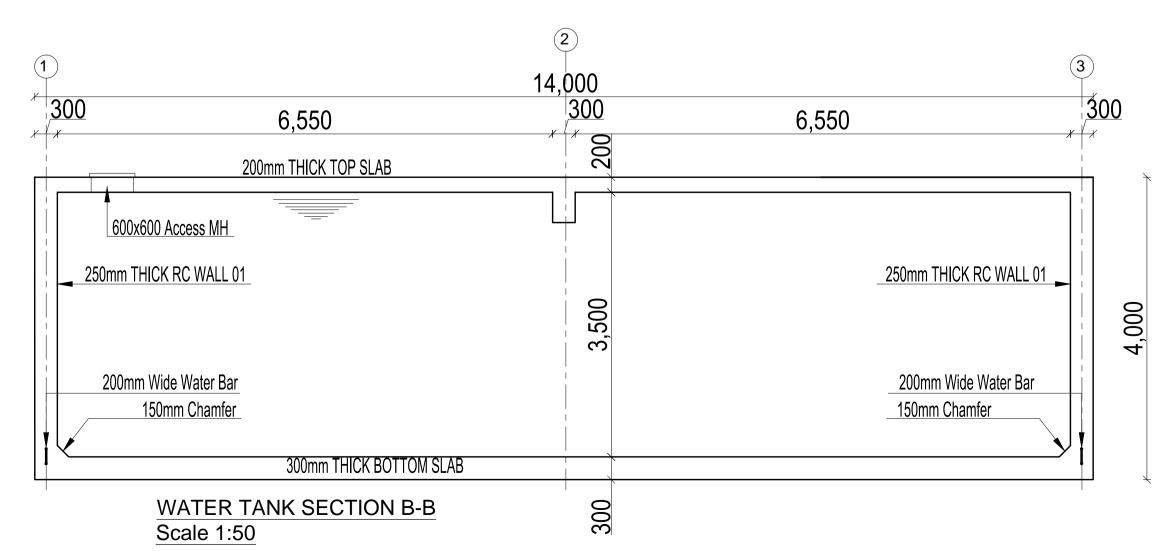
PROPOSED AFFORDABLE HOUSING No. PROGRAM BOUNDARY WALL DETAILS

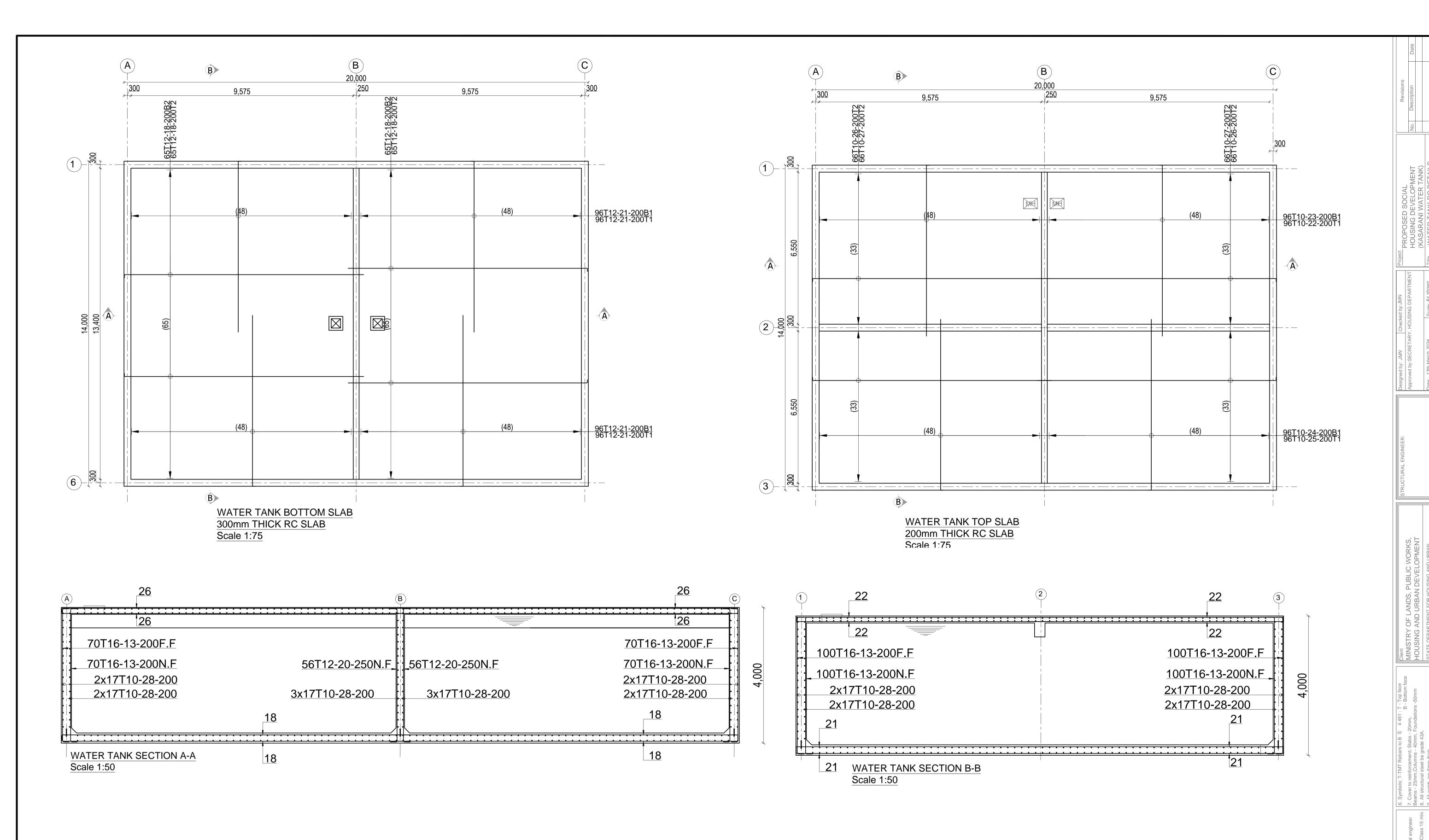


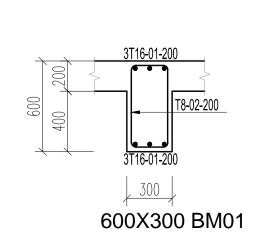




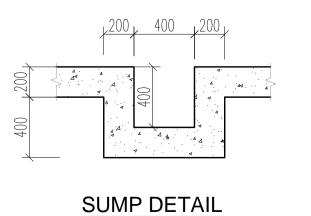




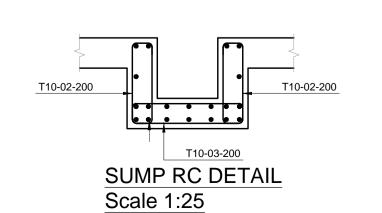




Scale 1:25



Scale 1:25



WATER PROOFING NOTES

- Water tank concrete to be class 30/20
- Water tank walls and slab to have inert cementious negative pressure waterproofing applied.
- Fiber mesh to be dosed in the concreteat a minimum dosage of 0.9kg/m³.
- Hydrophobic waterproofing admixture such as sika 1to be dosed in the concrete as per manufacturers specifications.

SOCIAL HALL



EXTERNAL WORKS DRAWINGS





GENERAL NOTES

1. This drawing to be read in conjunction with Engineers' drawings.

2. All dimensions are in mm unless otherwise

specified.
3. Drawings are not to be scaled. Only figured dimensions should be used.

4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

DPC to be 3ply bituminous felt to be provided under all walls.

STRUCTURAL

1. All Black cotton soil to be removed from below all building and paved surfaces

2. All reinforced concrete work will be in accordance with structural drawings .

3. Foundation depths to be determined on site to S.E approval

4. All walls less than 200mm thick to be reinforced with hoop iron at every alternate

5. All adjacent R.C work and masonry walls to be tied with strap irons at every course

MECHANICAL

All Plumbing and Drainage Work to comply with specifications

2. S.V.P denotes soil vent pipe and to be provided at the head of the drainage

3. Where drainage is shown under driveways and slabs, to be encased in 150mm thick concrete surround.

4. All underground foul and waste drain pipes shall be of PVC to comply with BS 5255
5. All ICs within building area, driveway and parking to have heavy duty, double-seal airtight covers and walls to be 200mm.

6. Minimum slope in the drain pipes to be 1%
7. No chases for pipes will be allowed in the

8. Sleeves will be allowed with written approval from S.E.

9. No cutting of concrete without express approval of the Architect or S.E. 10. All testing of pipes must be coordinated with electrical and any conflicts must be resolved before works begin
11. Permanent vents denoted as P.V to be provided as shown on plan.

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

ROADS AND STORM WATER LAYOUT

SCALE: 1:750

DRAWN BY:

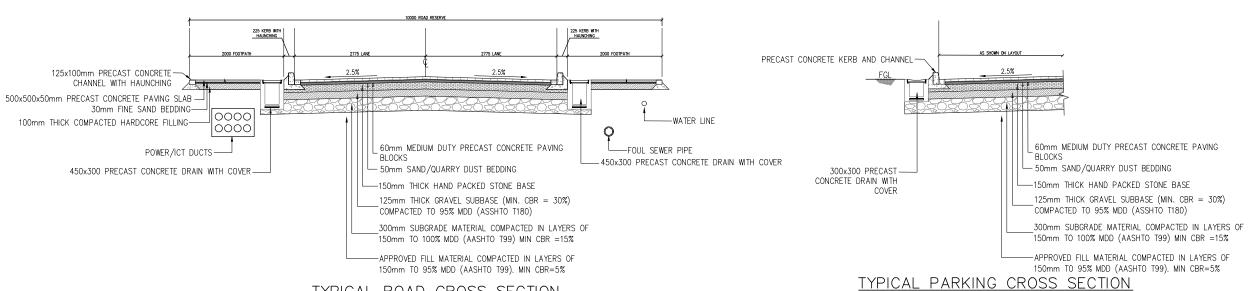
CHECKED BY:

DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING ANDURBAN DEVELOPMENT

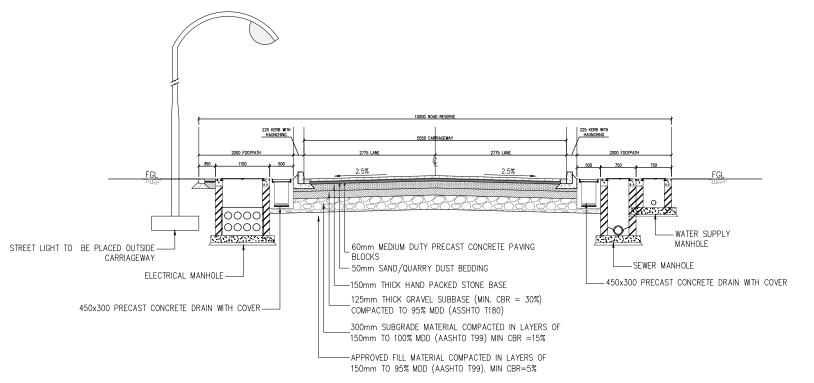
STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





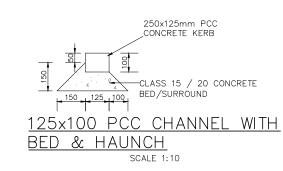
TYPICAL ROAD CROSS SECTION

SCALE 1:40

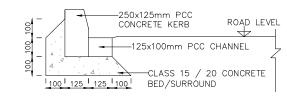


TYPICAL ROAD CROSS SECTION SHOWING COORDINATED SERVICES

SCALE 1:40



SCALE 1:40



PCC KERB & CHANNEL WITH BED & HAUNCH SCALE 1:10

GENERAL NOTES

1. This drawing to be read in conjunction with Engineers' drawings.

2. All dimensions are in mm unless otherwise

specified.

3. Drawings are not to be scaled. Only figured dimensions should be used.

dimensions should be added and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval.

DPC to be 3ply bituminous felt to be provided under all walls

STRUCTURAL

1. All Black cotton soil to be removed from below all building and paved surfaces

2. All reinforced concrete work will be in accordance with structural drawings S. Foundation depths to be determined on site to S.E approval

4. All walls less than 200mm thick to be reinforced with hoop iron at every alternate

5. All adjacent R.C work and masonry walls to be tied with strap irons at every course

MECHANICAL

1. All Plumbing and Drainage Work to comply with specifications

2. S.V.P denotes soil vent pipe and to be provided at the head of the drainage 3. Where drainage is shown under driveways and slabs, to be encased in 150mm thick concrete surround.

4. All underground foul and waste drain pipes shall be of PVC to comply with BS 5255
5. All ICs within building area, driveway and parking to have heavy duty, double-seal airtight covers and walls to be 200mm.

6. Minimum slope in the drain pipes to be 1% 7. No chases for pipes will be allowed in the

8. Sleeves will be allowed with written approval from S.E.

9. No cutting of concrete without express approval of the Architect or S.E 10. All testing of pipes must be coordinated with electrical and any conflicts must be resolved before works begin
11. Permanent vents denoted as P.V to be provided as shown on plan.

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

TYPICAL ROAD CROSS SECTIONS

SCALE: 1:100

DRAWN BY:

CHECKED BY:

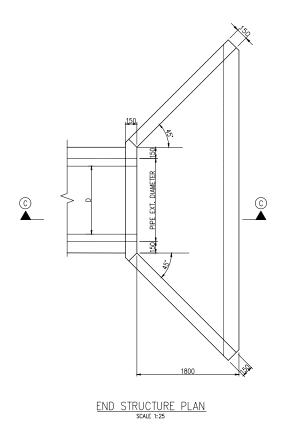
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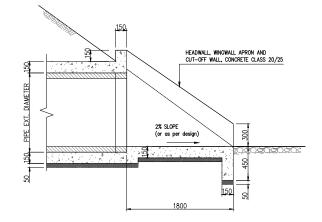
DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING ANDURBAN DEVELOPMENT

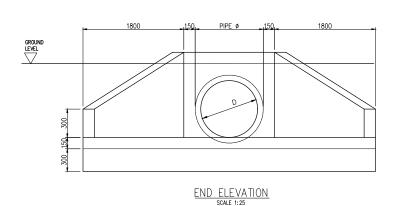
STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT

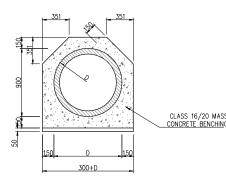






SECTION C-C SCALE 1:25

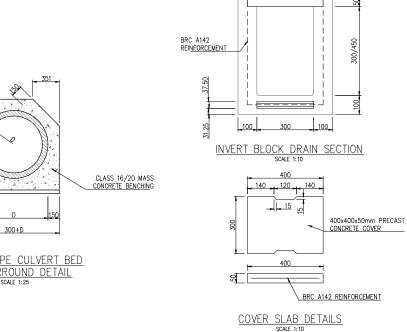




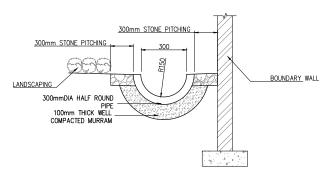
TYPICAL PIPE CULVERT BED

AND SURROUND DETAIL

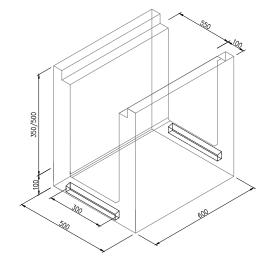
SCALE 1: 25



400x400x50mm PRECAST CONCRETE COVER



300mmø LINED OPEN DRAIN



INVERT BLOCK DRAIN ISOMETRIC VIEW SCALE 1:10

- NOTES

 1. ALL BLOCKS TO BE PRECAST IN CLASS 25 CONCRETE

 2. ALL BLOCKS TO HAVE JOINTS AS DETAILED

 3. ALL DIMENSIONS ARE IN mm.

 4. ALL FORMS FOR BLOCKS TO BE FABRICATED IN MILD STEEL TO THE ENGINEER'S SATISFORM.

 5. BLOCKS TO BE CURED FOR 14 DAYS IN FACTORY PRIOR TO USE ON SITE

 6. DRAIN TO BE REINFORCED WITH NOMINAL REINFORCMENT BRC. No A142

GENERAL NOTES

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4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

CONSTRUCTION

Approved anti-termite treatment & 1000 gauge polythene sheeting cover to be provided under all ground floor concrete slab on compacted hardcore to approval. DPC to be 3ply bituminous felt to be provided under all walls.

STRUCTURAL

1. All Black cotton soil to be removed from below all building and paved surfaces

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5. All adjacent R.C work and masonry walls to be tied with strap irons at every course

MECHANICAL

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5. All ICs within building area, driveway and parking to have heavy duty, double-seal airtight covers and walls to be 200mm.

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provided as shown on plan.

ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT IN

CLIENT: Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature: _ _ _ Date:

DRAWING TITLE:

TYPICAL DRAINAGE DETAILS

SCALE: 1:100

DRAWN BY:

CHECKED BY:

Signature:____Date:___

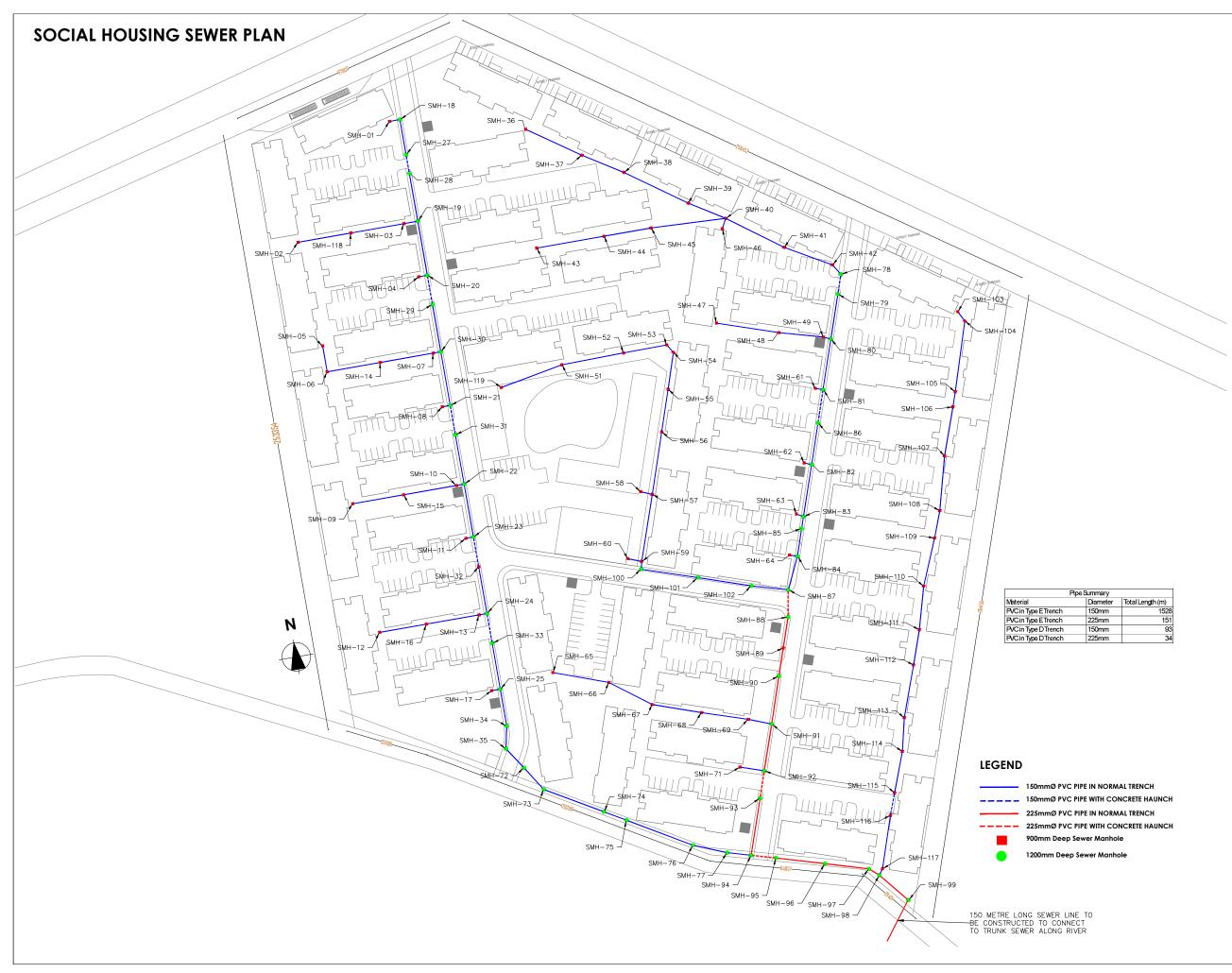
DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING ANDURBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT







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ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

DRAWING TITLE:

SEWER LAYOUT

SCALE: 1:750

DRAWN BY:

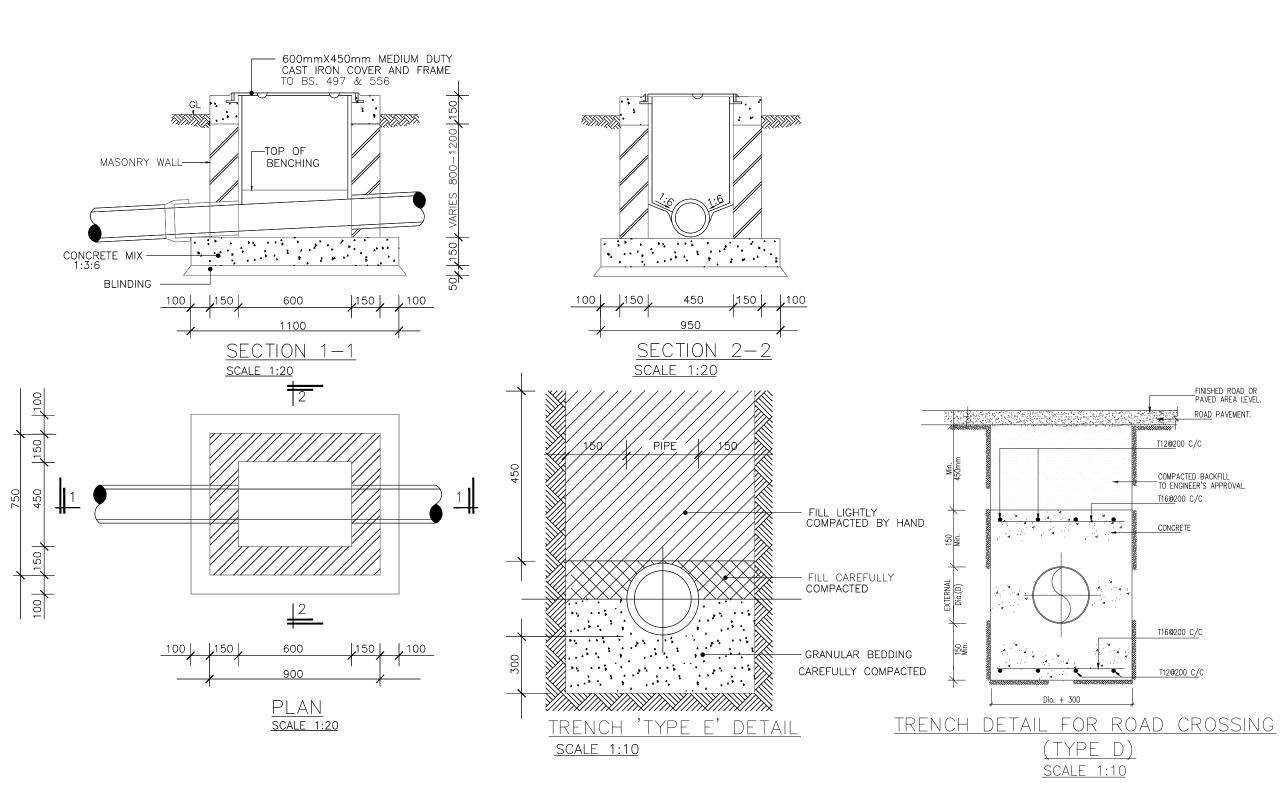
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MINISTRY OF LANDS, PUBLIC WORKS HOUSING ANDURBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT





RECTANGULAR SEWER MANHOLES DETAIL SCALE: NTS

GENERAL NOTES

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ELECTRICAL

All conduits must be laid before plastering

PROJECT:

PROPOSED SOCIAL HOUSING DEVELOPMENT IN

CLIENT:

Name: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

Signature: _ _ _ Date:

DRAWING TITLE:

TYPICAL SEWER DETAILS

SCALE: 1:10

DRAWN BY:

CHECKED BY:

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DATE:

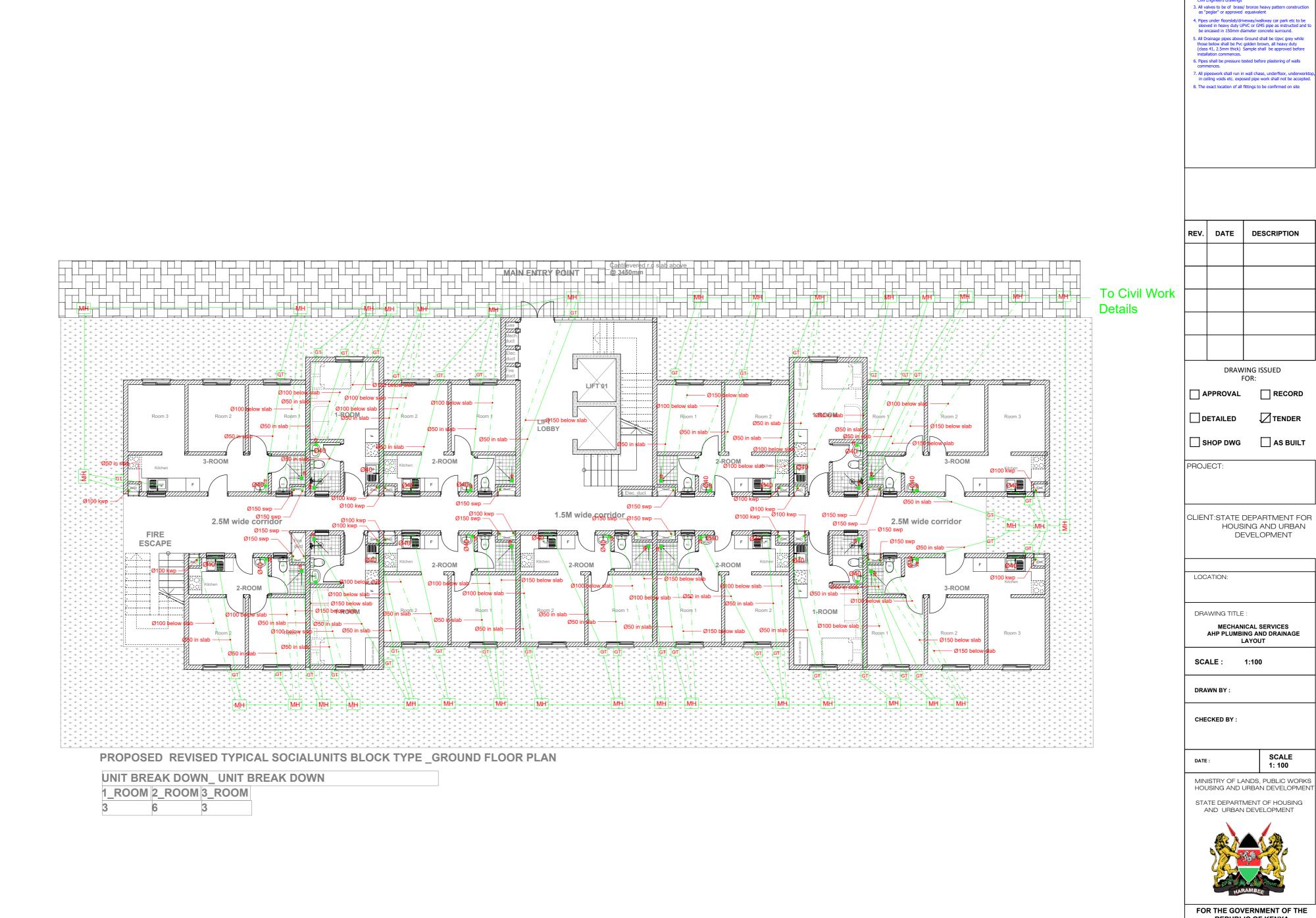
MINISTRY OF LANDS, PUBLIC WORKS HOUSING ANDURBAN DEVELOPMENT

STATE DEPARTMENT FOR HOUSING & URBAN DEVELOPMENT



MECHANICAL DRAWINGS

SOCIAL HOUSING G+14



NOTES

- 2. All drawing shall be read together with Architects and

REPUBLIC OF KENYA



PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 1ST, 10TH & 13TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

NOTES

- All drawing shall be read together with Architects and
- vil Engineers drawings
- All valves to be of brass/ bronze heavy pattern cons as "peglar" or approved equalvalent
- sleeved in heavy duty UPVC or GMS pipe as instructed at be encased in 150mm diameter concrete surround.
- All Drainage pipes above Ground shall be Upvc grey whi those below shall be Pvc golden brown, all heavy duty (class 41, 2.5mm thick) Sample shall be approved befo
- Pipes shall be pressure tested before plastering of commences.
- All pipeswork shall run in wall chase, underfloor, und
- 8. The exact location of all fittings to be confirmed on site

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CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

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LOCATION:

DRAWING TITLE :

MECHANICAL SERVICES
AHP PLUMBING AND DRAINAGE
LAYOUT

SCALE: 1:100

DRAWN BY:

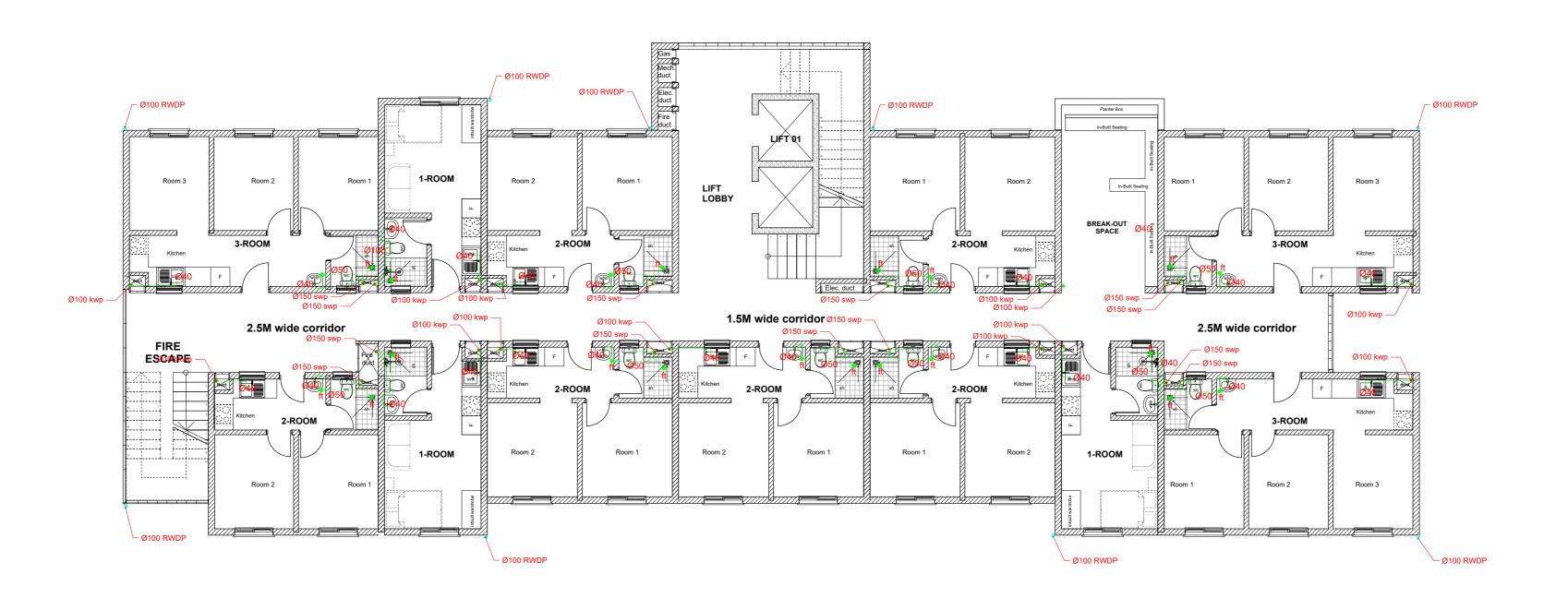
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MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT





PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 2ND ABD 9TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN 1_ROOM 2_ROOM 3_ROOM

- 3. All valves to be of brass/ bronze heavy as "peglar" or approved equaivalent

- 8. The exact location of all fittings to be confirmed on site

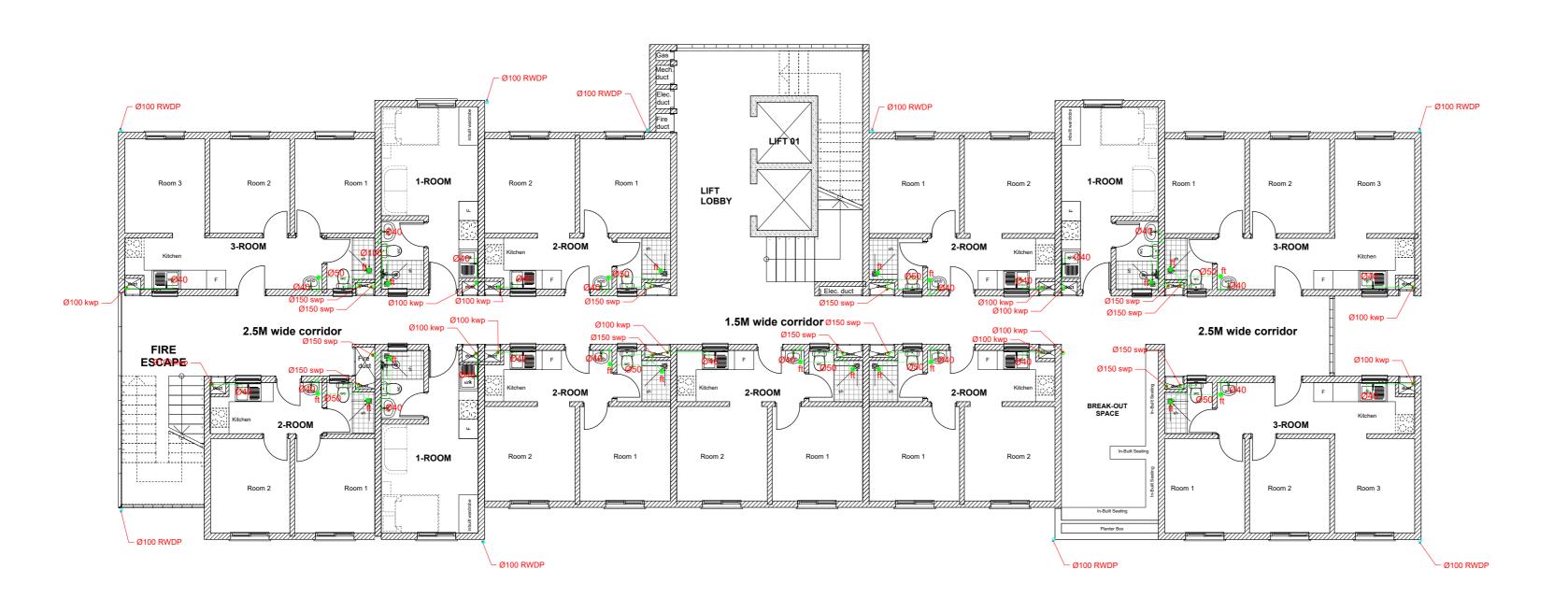
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MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

SCALE 1: 100

CHECKED BY:



PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 3RD AND 7TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

NOTES

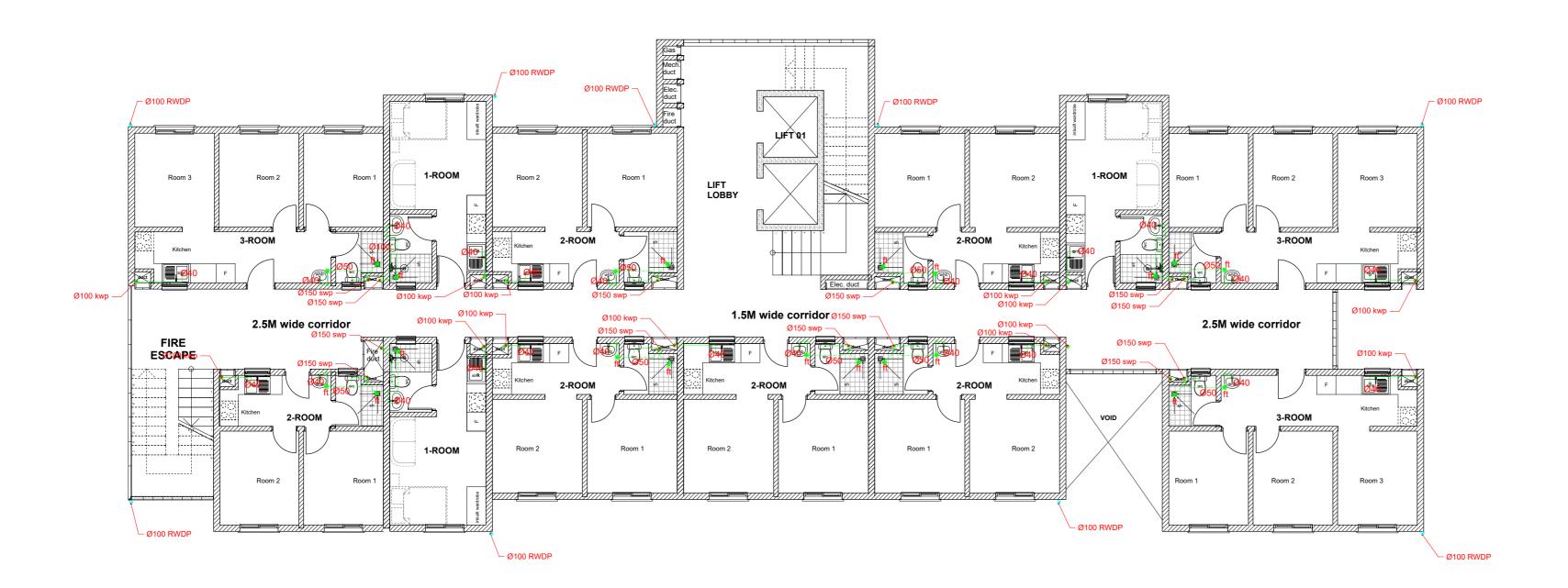
- All drawing shall be read together with Architects a
- Engineers drawings
- All valves to be of brass/ bronze heavy pattern construct as "peglar" or approved equaivalent
- sleeved in heavy duty UPVC or GMS pipe as instructed and be encased in 150mm diameter concrete surround.
- All Drainage pipes above Ground shall be Upvc grey while those below shall be Pvc golden brown, all heavy duty
- Pipes shall be pressure tested before plastering of wall commences.
- pipeswork shall run in wall chase, underfloor, under
- 8. The exact location of all fittings to be confirmed on site

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FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 4TH AND 8TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

NOTES

- 2. All drawing shall be read together with Architects and
- All drawing shall be read together with Architects and Civil Engineers drawings
- All valves to be of brass/ bronze heavy pattern of as "peglar" or approved equaivalent
- Pipes under floorslab/driveway/walkway car park etc to
- All Drainage pipes above Ground shall be Upvc grey while those below shall be Pvc golden brown, all heavy duty
- 6. Pipes shall be pressure tested before plastering of walls
- ommences. All pineswork shall run in wall chase. I
- in ceiling voids etc. exposed pipe work shall not be acc

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DRAWING TITLE :

LOCATION:

BID WING III

MECHANICAL SERVICES AHP PLUMBING AND DRAINAGE LAYOUT

SCALE: 1:100

CLIENT:STATE DEPARTMENT FOR

HOUSING AND URBAN DEVELOPMENT

DRAWN BY :

CHECKED BY:

DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

SCALE 1: 100

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT





PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 5TH AND 11TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

3 6 3

NOTES

- All drawing shall be read together with Architects and
- All drawing shall be read together with Architects a Civil Engineers drawings
- 3. All valves to be of brass/ bronze heavy pa
- sleeved in heavy duty UPVC or GMS pipe as instructed a be encased in 150mm diameter concrete surround.

 5. All Drainage pipes above Ground shall be Upvc grey while
- installation commences.

 6. Pipes shall be pressure tested before plastering of walls
- All pipeswork shall rup in wall shase underfloor upon
- in ceiling voids etc. exposed pipe work shall not be accept8. The exact location of all fittings to be confirmed on site

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MECHANICAL SERVICES AHP PLUMBING AND DRAINAGE LAYOUT

CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

SCALE: 1:100

DRAWN BY :

CHECKED BY:

DATE:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

1: 100

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT





PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 6TH AND 12TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

- All drawing shall be read together with Architects and Civil Engineers drawings

- 8. The exact location of all fittings to be confirmed on site

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MECHANICAL SERVICES AHP PLUMBING AND DRAINAGE LAYOUT

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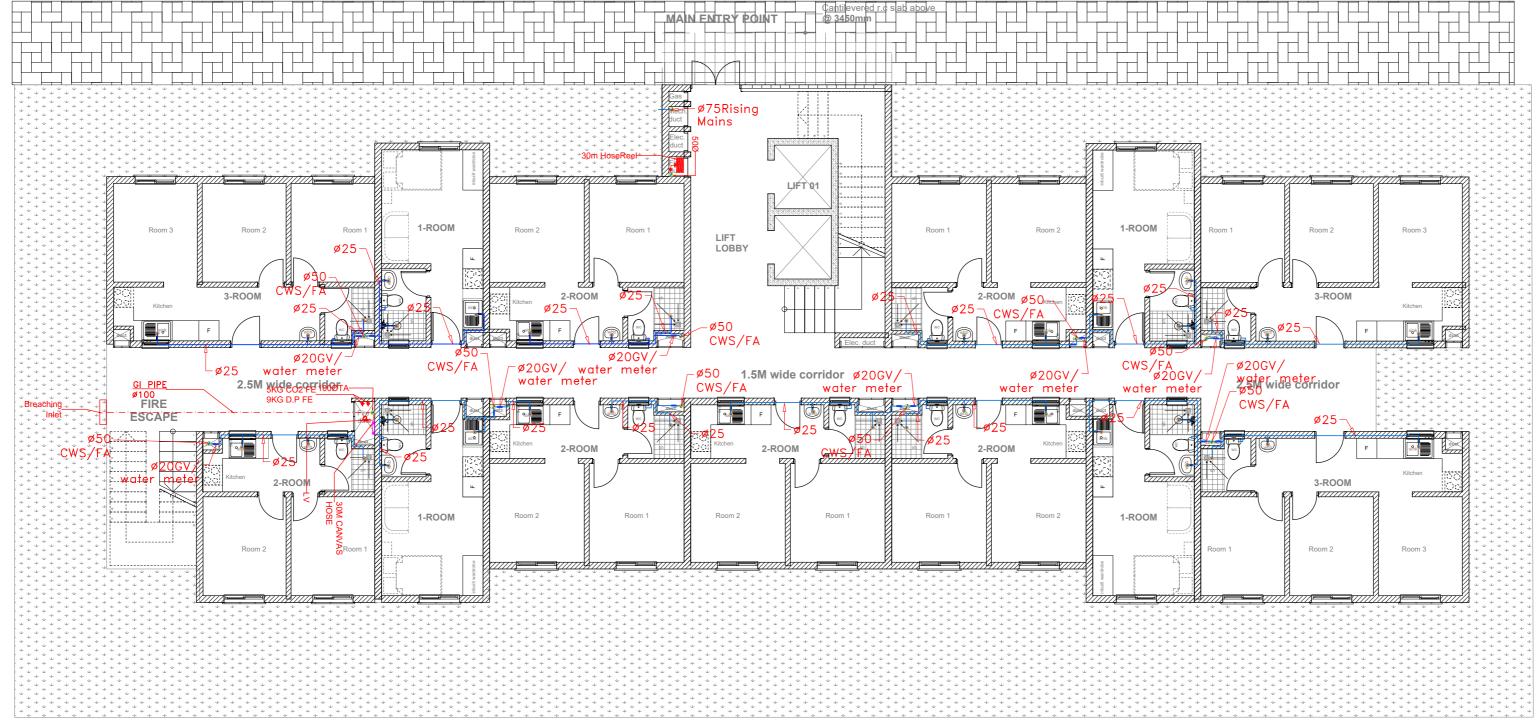
MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

SCALE 1: 100

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



SOCIAL HOUSING BLOCK



PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _GROUND FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

NOTES

- All dimensions are in minimedes unless otherwise stated.
 All drawing shall be read together with Architects and
- Civil Engineers drawings
- Pipes under floorslab/driveway/walkway car park etc to
- sleeved in heavy duty UPVC or GMS pipe as instructed and be encased in 150mm diameter concrete surround.
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- Pipes shall be pressure tested before plastering of w commences
- merices. Dipeswork shall run in wall chase, underfloor, underwor
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FOR THE GOVERNMENT OF THE



PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 1ST, 10TH & 13TH FLOOR PLAN

UNIT BRE	AK DOW	N_ UNIT E	BREAK DOWN
1_ROOM	2_ROOM	3_ROOM	
3	6	3	

- All drawing shall be read together with Architects and Civil Engineers drawings

- 8. The exact location of all fittings to be confirmed on site

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DRAWING TITLE:

MECHANICAL SERVICES AHP PLUMBING , FIRE AND DRAINAGE LAYOUT

DEVELOPMENT

SCALE: 1:100

DRAWN BY:

CHECKED BY:

SCALE 1: 100

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT







PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 2ND ABD 9TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

- All valves to be of brass/ bronze heav as "peglar" or approved equaivalent

- 8. The exact location of all fittings to be confirmed on site

REV.	DATE	DESCRIPTION
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CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

LOCATION:

DRAWING TITLE :

MECHANICAL SERVICES AHP PLUMBING , FIRE AND DRAINAGE LAYOUT

SCALE: 1:100

DRAWN BY:

CHECKED BY:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

SCALE 1: 100

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT







PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 3RD AND 7TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

- All drawing shall be read together with Architects and Civil Engineers drawings

- 6. Pipes shall be pressure tested before plastering of walls
- 8. The exact location of all fittings to be confirmed on site

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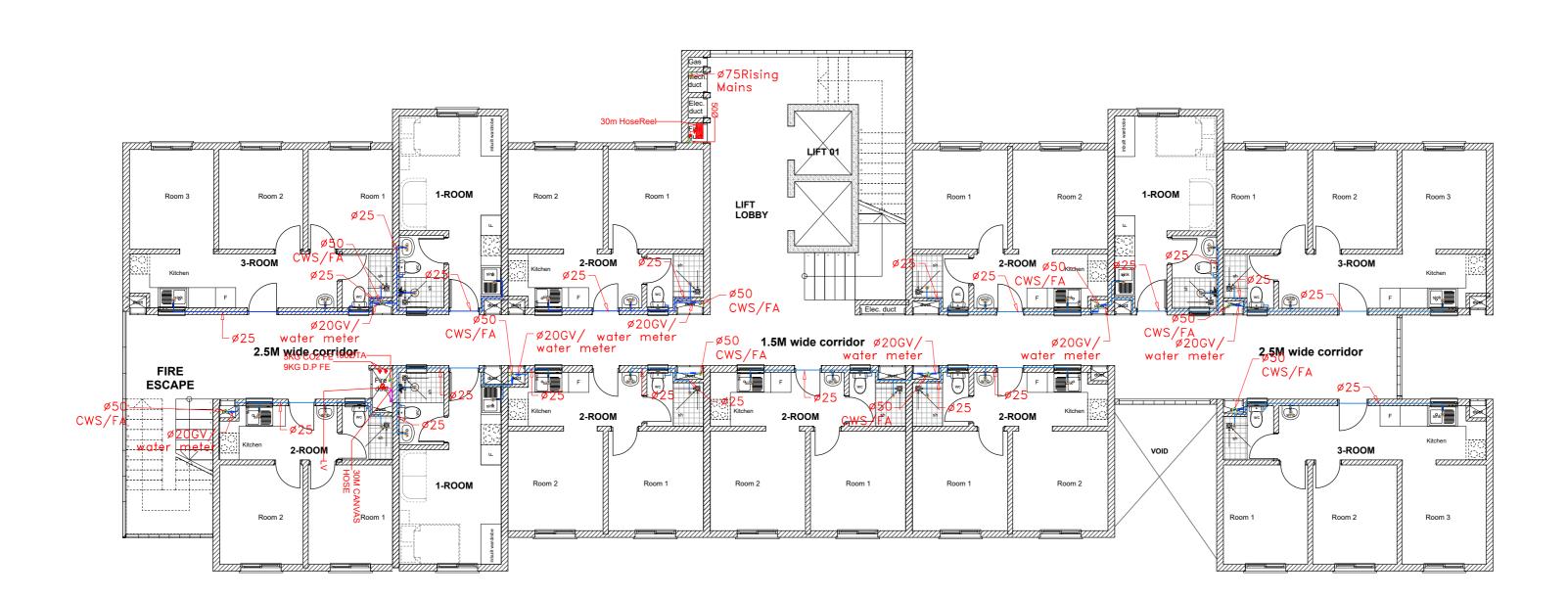
FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

SCALE 1: 100

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

CHECKED BY:



PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 4TH AND 8TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

NOTES

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 Pines shall be pressure tested before plastering of walls
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REV.	DATE	DESCRIPTION
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PROJECT:		

LOCATION:

DRAWING TITLE :

MECHANICAL SERVICES AHP PLUMBING , FIRE AND DRAINAGE LAYOUT

CLIENT:STATE DEPARTMENT FOR

HOUSING AND URBAN DEVELOPMENT

SCALE: 1:100

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DATE

SCALE 1: 100

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT





PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 5TH AND 11TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

- 2. All drawing shall be read together with Architects and Civil Engineers drawings

- 7. All pipeswork shall run in wall chase, underfloor, underwork in ceiling voids etc. exposed pipe work shall not be accept
- 8. The exact location of all fittings to be confirmed on site

REV.	DATE	DESCRIPTION
		/ING ISSUED FOR:
AI	PPROVAL	RECORD
☐ DE	ETAILED	☑ TENDER
 	HOP DWG	

CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

LOCATION:

PROJECT:

DRAWING TITLE:

SCALE: 1:100

MECHANICAL SERVICES AHP PLUMBING , FIRE AND DRAINAGE LAYOUT

DRAWN BY

CHECKED BY:

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

SCALE 1: 100

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT





PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _TYPICAL 6TH AND 12TH FLOOR PLAN

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

- 8. The exact location of all fittings to be confirmed on site

REV.	DATE	DESCRIPTION
		ING ISSUED FOR:
☐ A	PPROVAL	RECORD
	ETAILED	 ▼ TENDER
SHOP DWG		AS BUILT
PROJ	ECT:	

MECHANICAL SERVICES AHP PLUMBING , FIRE AND DRAINAGE LAYOUT

DRAWING TITLE:

LOCATION:

SCALE: 1:100

DRAWN BY:

CHECKED BY:

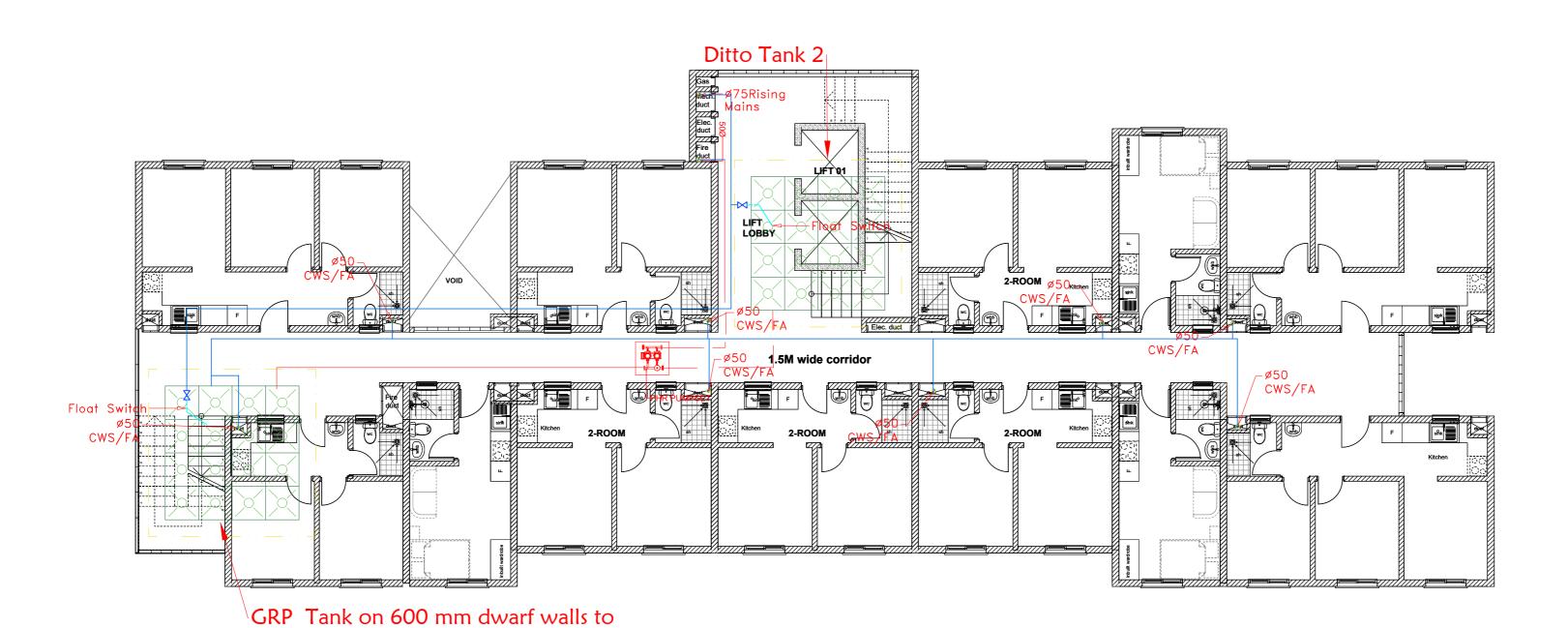
1: 100

SCALE

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT





PROPOSED REVISED TYPICAL SOCIALUNITS BLOCK TYPE _ROOF FLOOR PLAN

(Allow 500 mm wide walkway around Tank)

Structural Eng. details.

UNIT BREAK DOWN_ UNIT BREAK DOWN

1_ROOM 2_ROOM 3_ROOM

- All drawing shall be read together with Architects and Civil Engineers drawings

- 8. The exact location of all fittings to be confirmed on site

REV.	DATE	DESCRIPTION
		ING ISSUED FOR:
APPROVAL		RECORD
DETAILED		☑ TENDER
SHOP DWG		AS BUILT
PROJECT:		

LOCATION:

DRAWING TITLE:

MECHANICAL SERVICES AHP PLUMBING , FIRE AND DRAINAGE LAYOUT

CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

SCALE: 1:100

DRAWN BY:

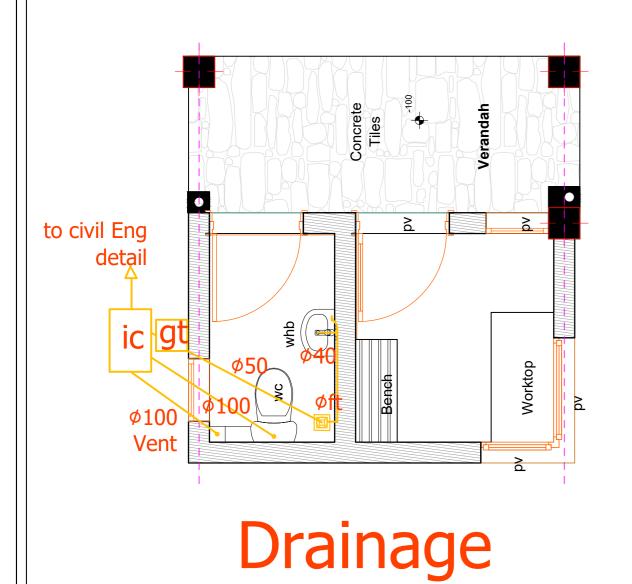
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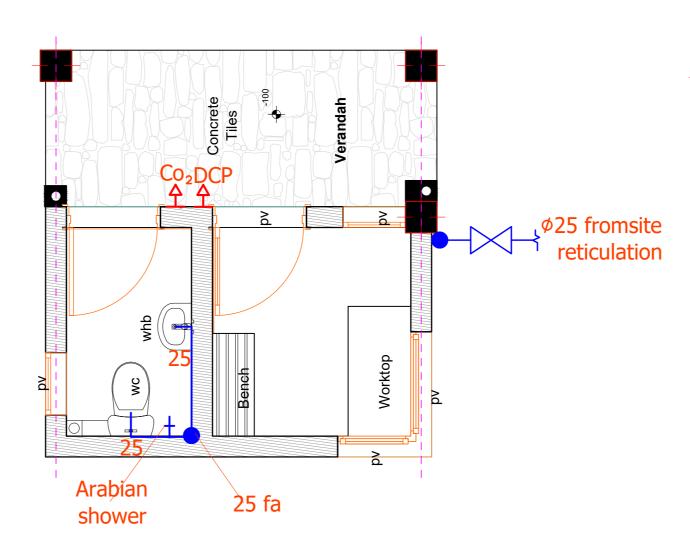
MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

1: 100

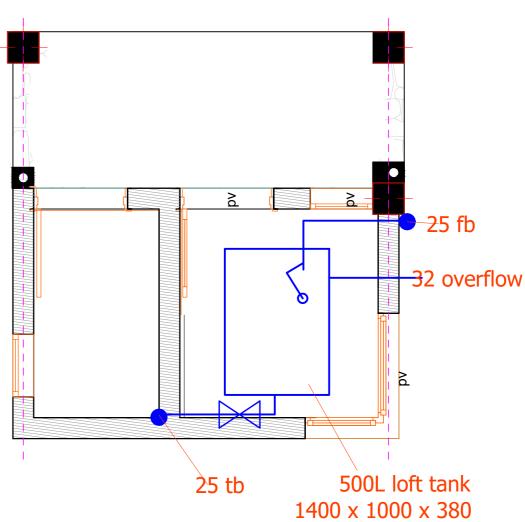
STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT











roof tank

2. All drawing shall be read together with Architects and

REV. DATE DESCRIPTION DRAWING ISSUED RECORD APPROVAL DETAILED **☑** TENDER SHOP DWG AS BUILT

PROJECT:
PROPOSED AFFORDABLE HOUSING
PROJECT IN KABETE CONSTITUENCY,
KIAMBU COUNTY (WITH ASSOCIATED
AMENITIES & INFRASTRUCTURE)

CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

LOCATION: KABETE, THIKA TOWN CONSTITUENCY, KIAMBU COUNTY

DRAWING TITLE:

MECHANICAL SERVICES GATE HOUSE PLUMBING AND DRAINAGE LAYOUT

SCALE: 1:100

DRAWN BY: Eng. ISAAC KINYUA

CHECKED BY: Eng. KARANJA WANYOIKE

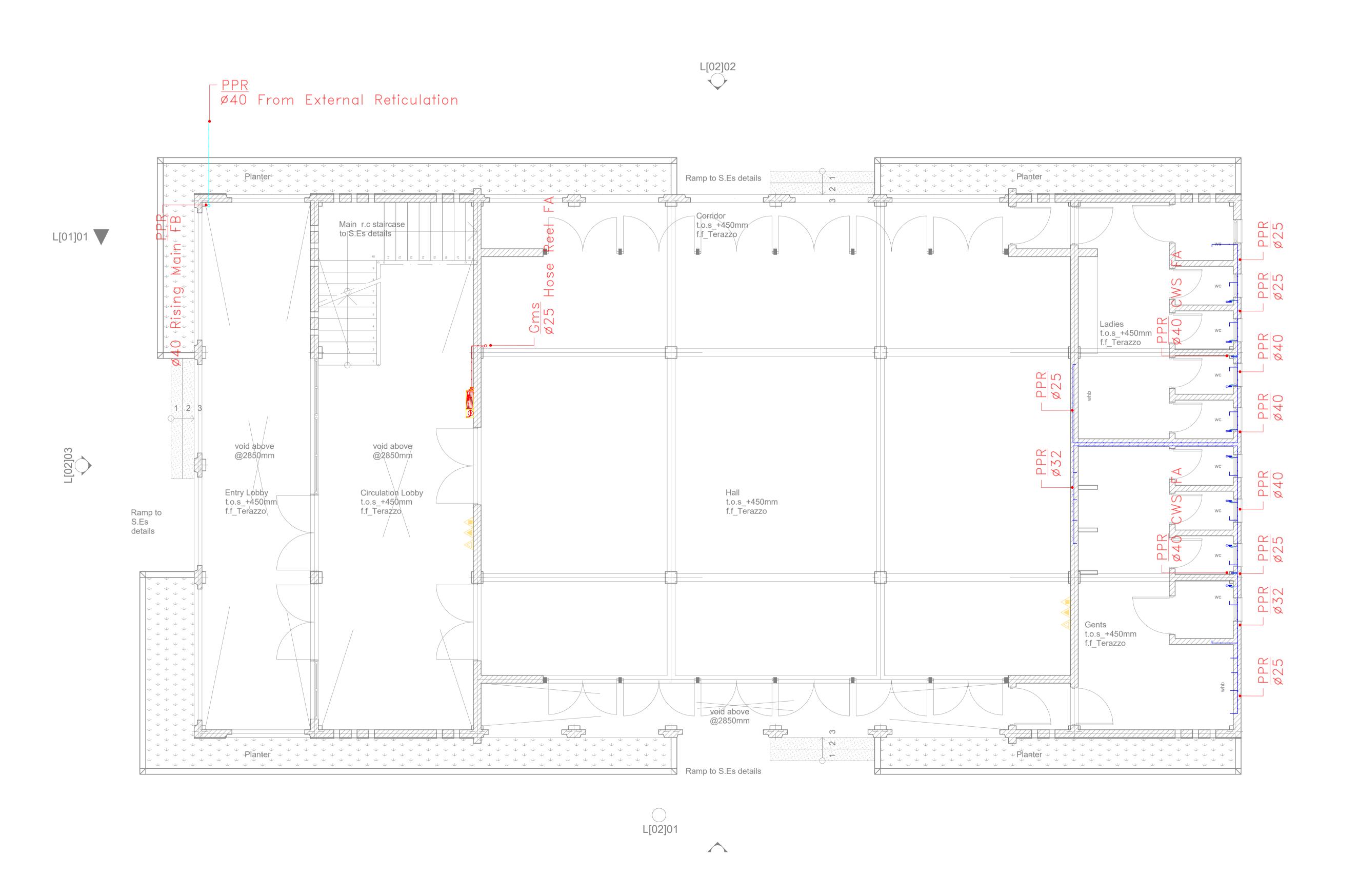
DATE: 13/03/2024

SCALE 1: 100

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

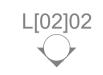
STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



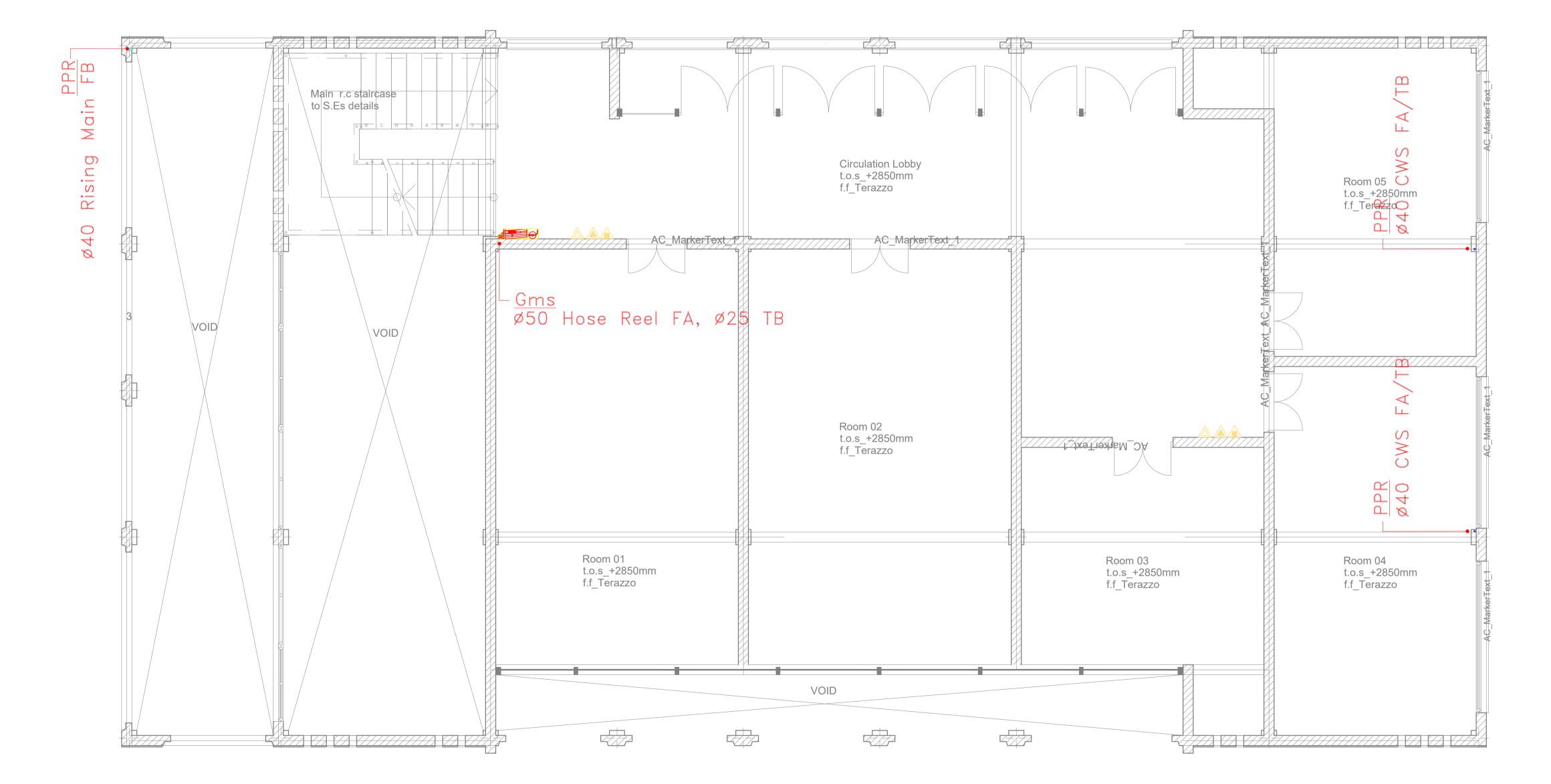


GROUND FLOOR WATER SUPPLY COMMUNITY CENTER

GENERAL NOTES 1. This drawing to be read in conjunction with architectural drawings. 2. All dimensions are in mm unless otherwise specified. 3. Drawings are not to be scaled. Only figured dimensions should be 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect. REV. DATE DESCRIPTION **DRAWING ISSUED** FOR: APPROVAL RECORD DETAILED SHOP DWG AS BUILT PROJECT: **SOCIAL HOUSING** CLIENT: SATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT LOCATION: DRAWING TITLE: COMMUNITY CENTER SCALE: 1:50 DRAWN BY: CHECKED BY Signature: MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



Bench



FIRST FLOOR WATER SURPLY COMMUNITY CENTER

GENERAL NOTES

- 1. This drawing to be read in conjunction with architectural drawings.
- 2. All dimensions are in mm unless otherwise specified.
- Drawings are not to be scaled .
 Only figured dimensions should be used
- 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

REV.	DATE	DESCRIPTION

DRAWING	SISSUED
FOR	:

APPROVAL	RECORD
APPROVAL	RECORD

DETAILED	

SHOP DWG	AS BUILT

PROJECT: SOCIAL HOUSING

CLIENT: SATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

LOCATION:

DRAWING TITLE :

COMMUNITY CENTER

SCALE: 1:50

DRAWN

CHECKED BY

Date: Signature:

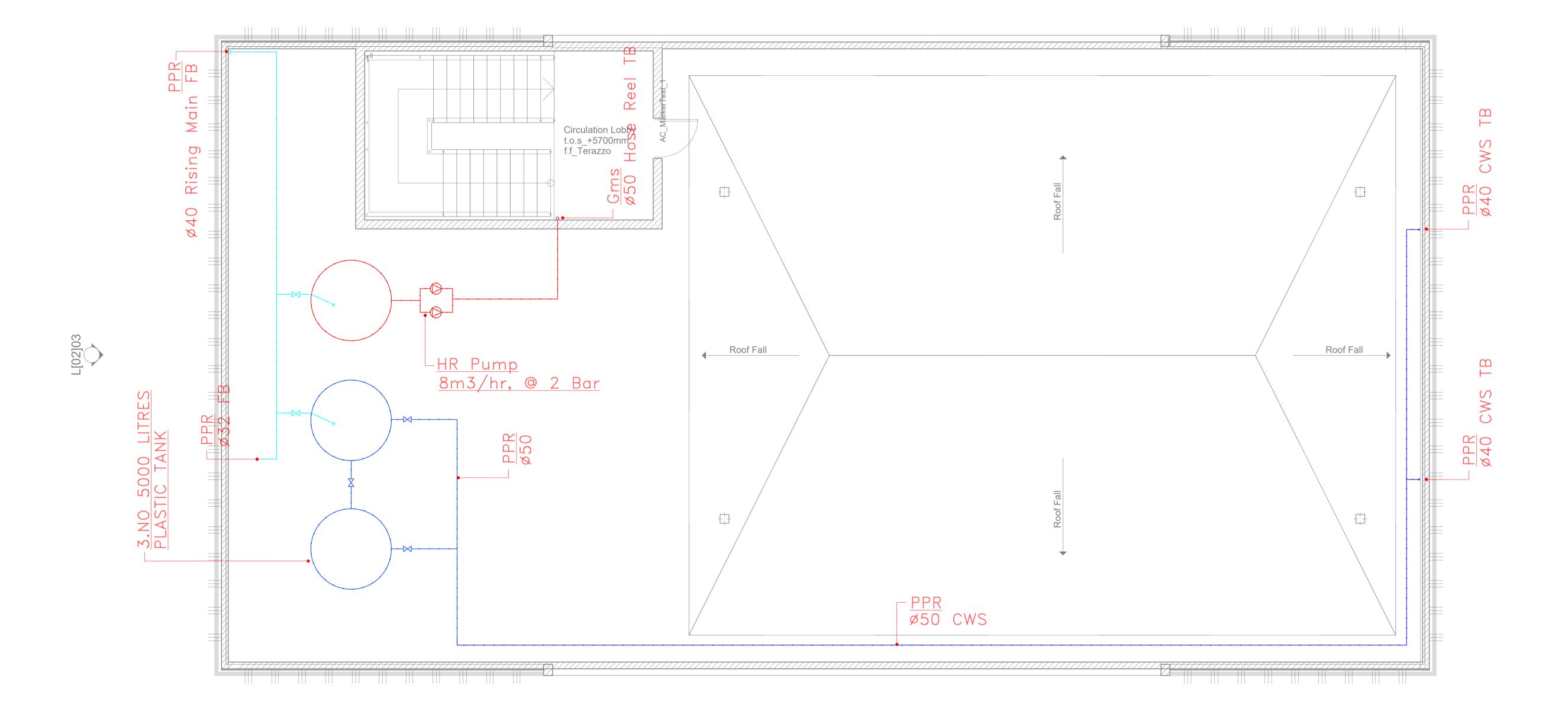
DATE :

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT





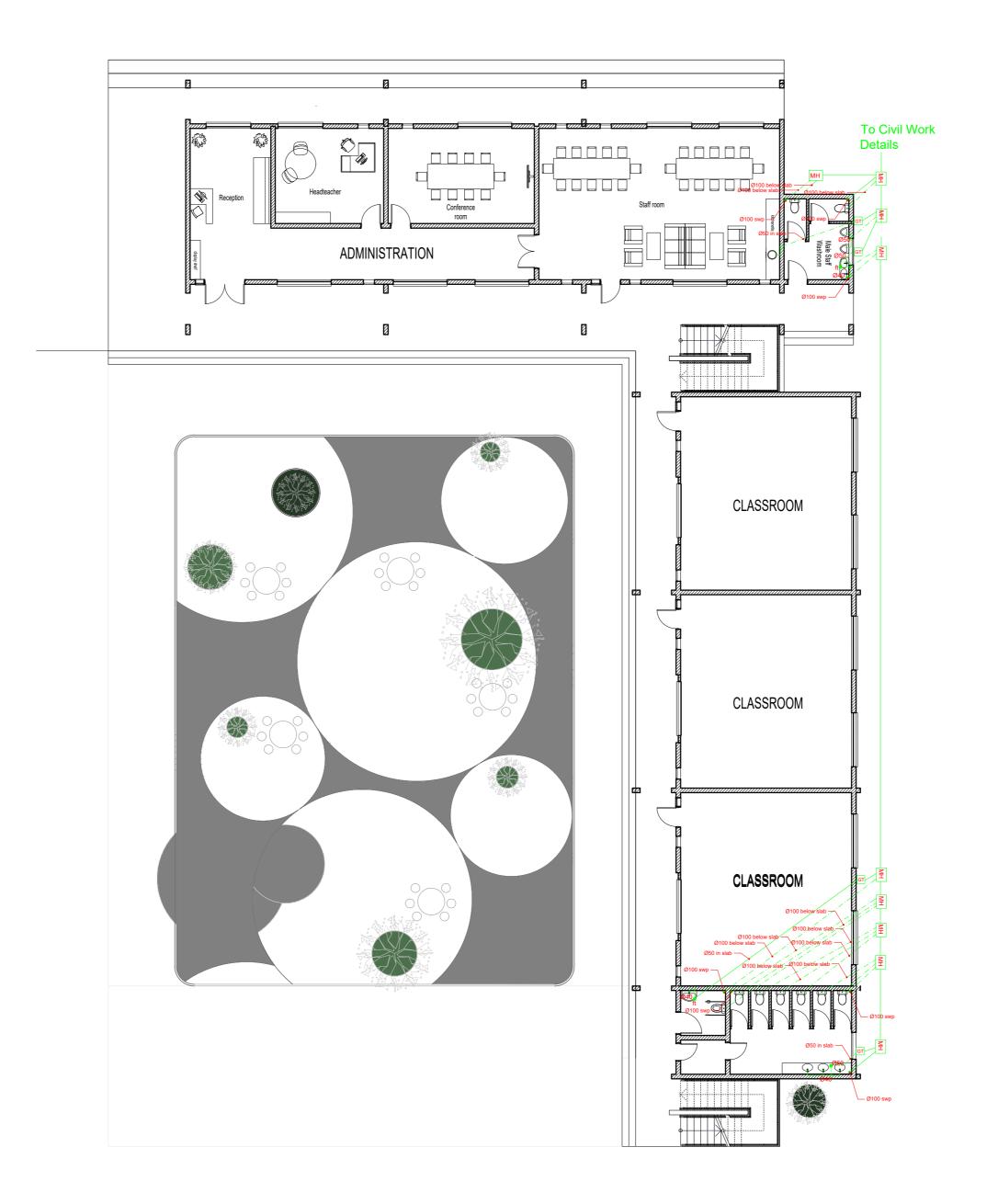




ROOF WATER SUPPLY COMMUNITY CENTER

GENERAL NOTES This drawing to be read in conjunction with architectural drawings. 2. All dimensions are in mm unless otherwise specified. 3. Drawings are not to be scaled. Only figured dimensions should be 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect DATE DESCRIPTION REV. DRAWING ISSUED FOR: APPROVAL RECORD ✓ TENDER DETAILED SHOP DWG AS BUILT PROJECT: **SOCIAL HOUSING** CLIENT: SATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT LOCATION: DRAWING TITLE: COMMUNITY CENTER SCALE: 1:50 DRAWN CHECKED BY Signature: DATE: MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT FOR THE GOVERNMENT OF THE

REPUBLIC OF KENYA



PROPOSED KINDERGATTERN GROUND FLOOR PLAN

NOTES

- 1. All dimensions are in millimetres unless otherwise stated.
 2. All drawing shall be read together with Architects and Civil Engineers drawings
 3. All valves to be of brass/ bronze heavy pattern construction as "peglar" or approved equalvalent
 4. Pipes under floorslab/driveway/walkway car park etc to be sleeved in heavy duty UPVC or GMS pipe as instructed and to be encased in 150mm diameter concrete surround.
 5. All Drainage pipes above Ground shall be Upvc grey while those below shall be Pvc golden brown, all heavy duty (class 41, 2.5mm thick) Sample shall be approved before installation commences.
- Pipes shall be pressure tested before plastering of walls commences.
- 7. All pipeswork shall run in wall chase, underfloor, underwork in ceiling voids etc. exposed pipe work shall not be accepte 8. The exact location of all fittings to be confirmed on site

REV.	DATE	DESCRIPTION
		/ING ISSUED FOR:
A	PPROVAL	RECORD
	ETAILED	☑ TENDER
□s	HOP DWG	AS BUILT
PROJECT:		
CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT		
LOC	ATION:	
DRA	AHP KINDE	:: NICAL SERVICES ERGATTERN DOUBLE NG AND DRAINAGE LAYOUT
SCA	ALE :	1:100

CHECKED BY:

DRAWN BY:

DATE:

1: 100

SCALE

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

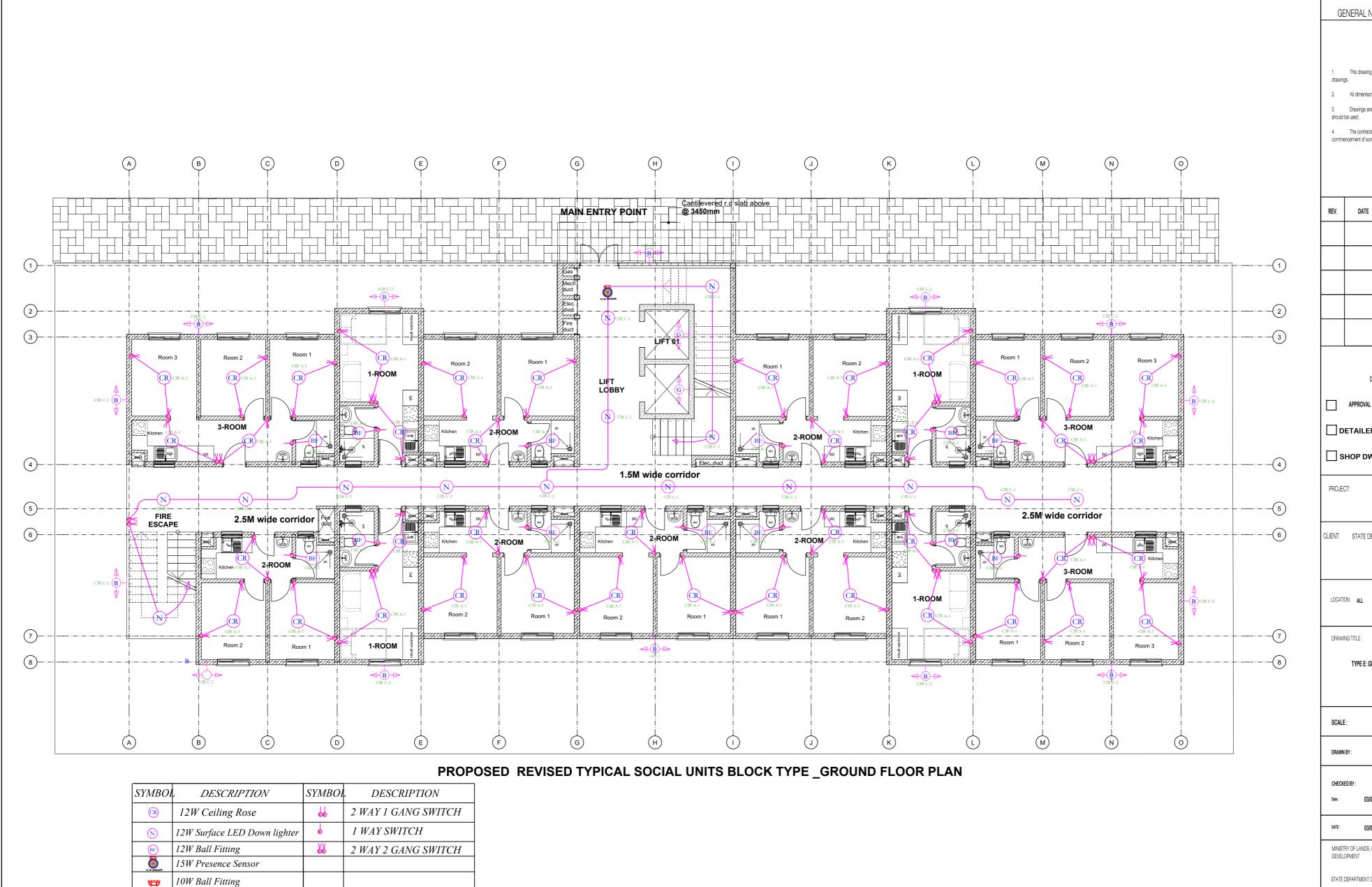


FOR THE GOVERNMENT OF THE

REPUBLIC OF KENYA

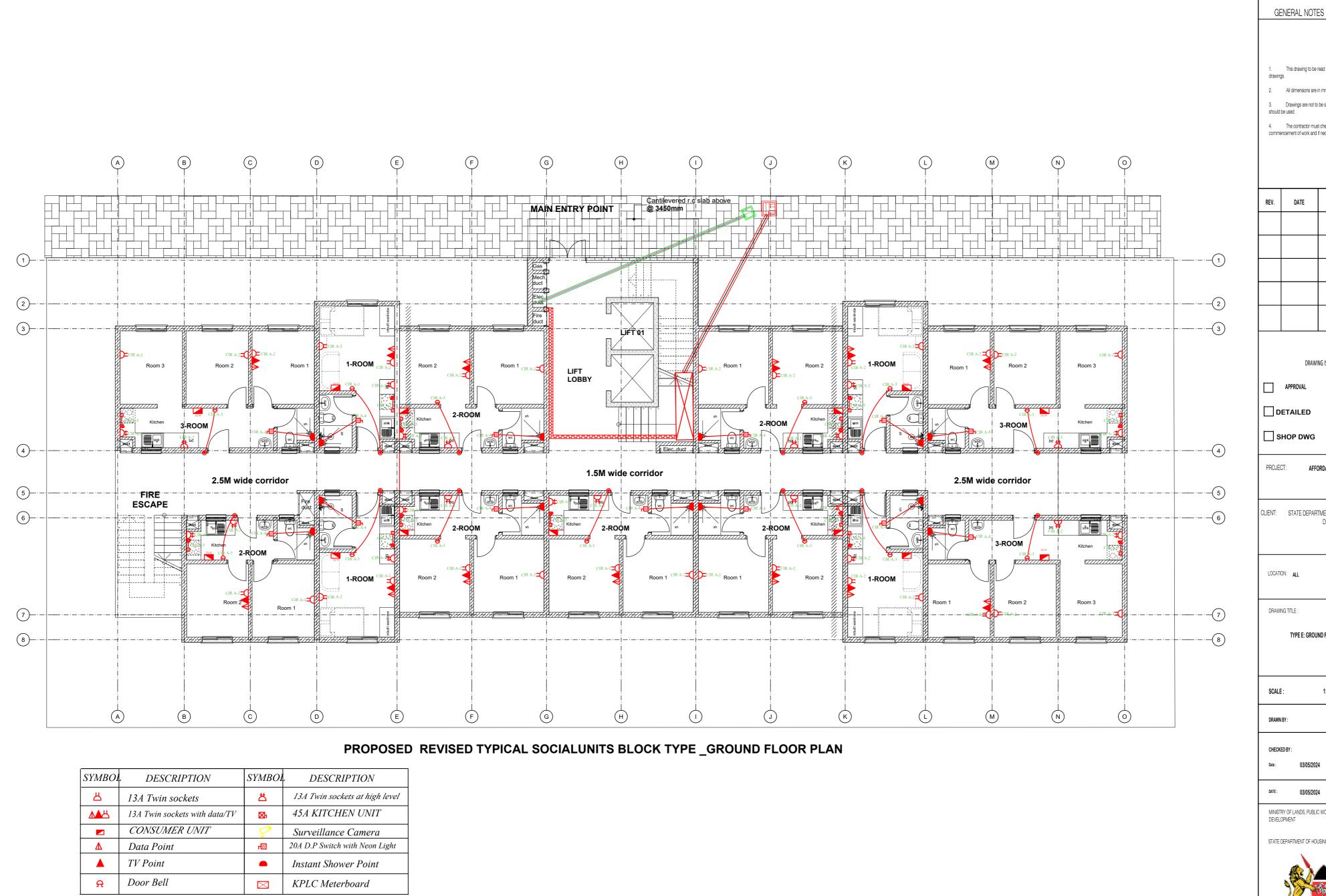
ELECTRICAL DRAWINGS

SOCIAL HOUSING G+14



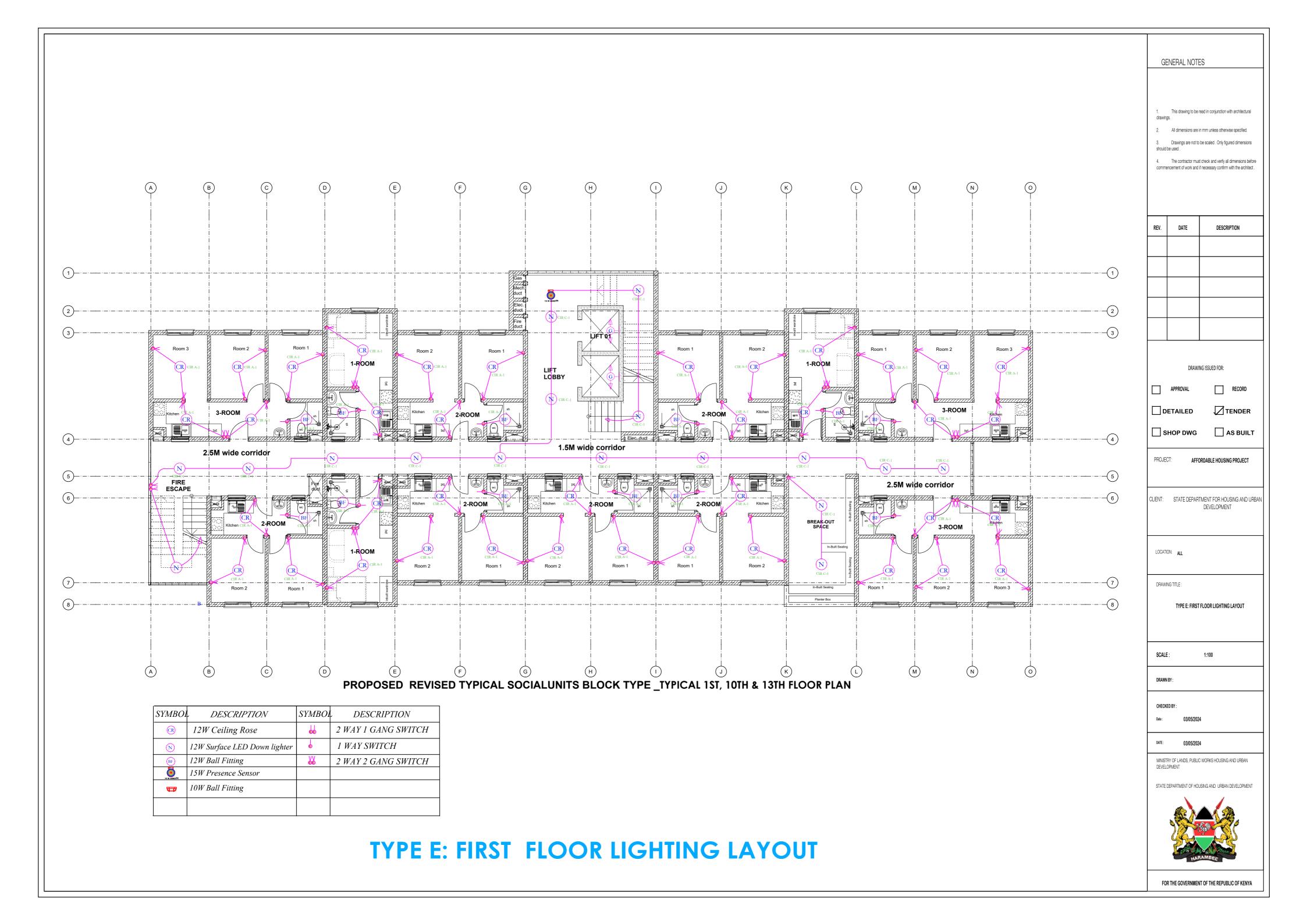
TYPE E:	GROUND	FLOOR LIGHTING LAYOUT

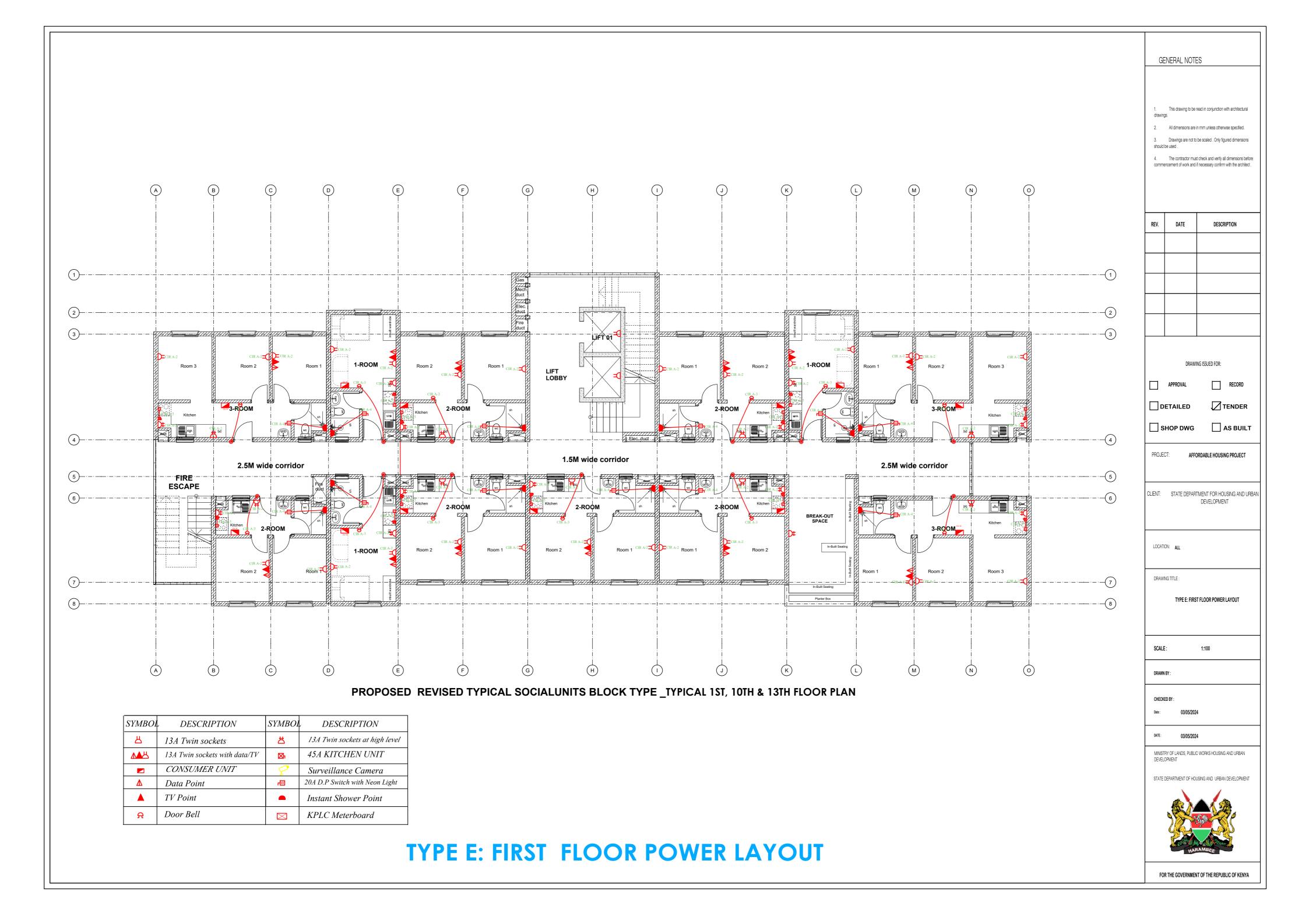
GENERAL NOTES This drawing to be read in conjunction with architectural All dimensions are in mm unless otherwise specified. 3. Drawings are not to be scaled . Only figured dimensions The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect . DESCRIPTION DRAWING ISSUED FOR: RECORD DETAILED **TENDER** SHOP DWG AS BUILT AFFORDABLE HOUSING PROJECT CLIENT: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT TYPE E: GROUND FLOOR LIGHTING LAYOUT 03/05/2024 MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

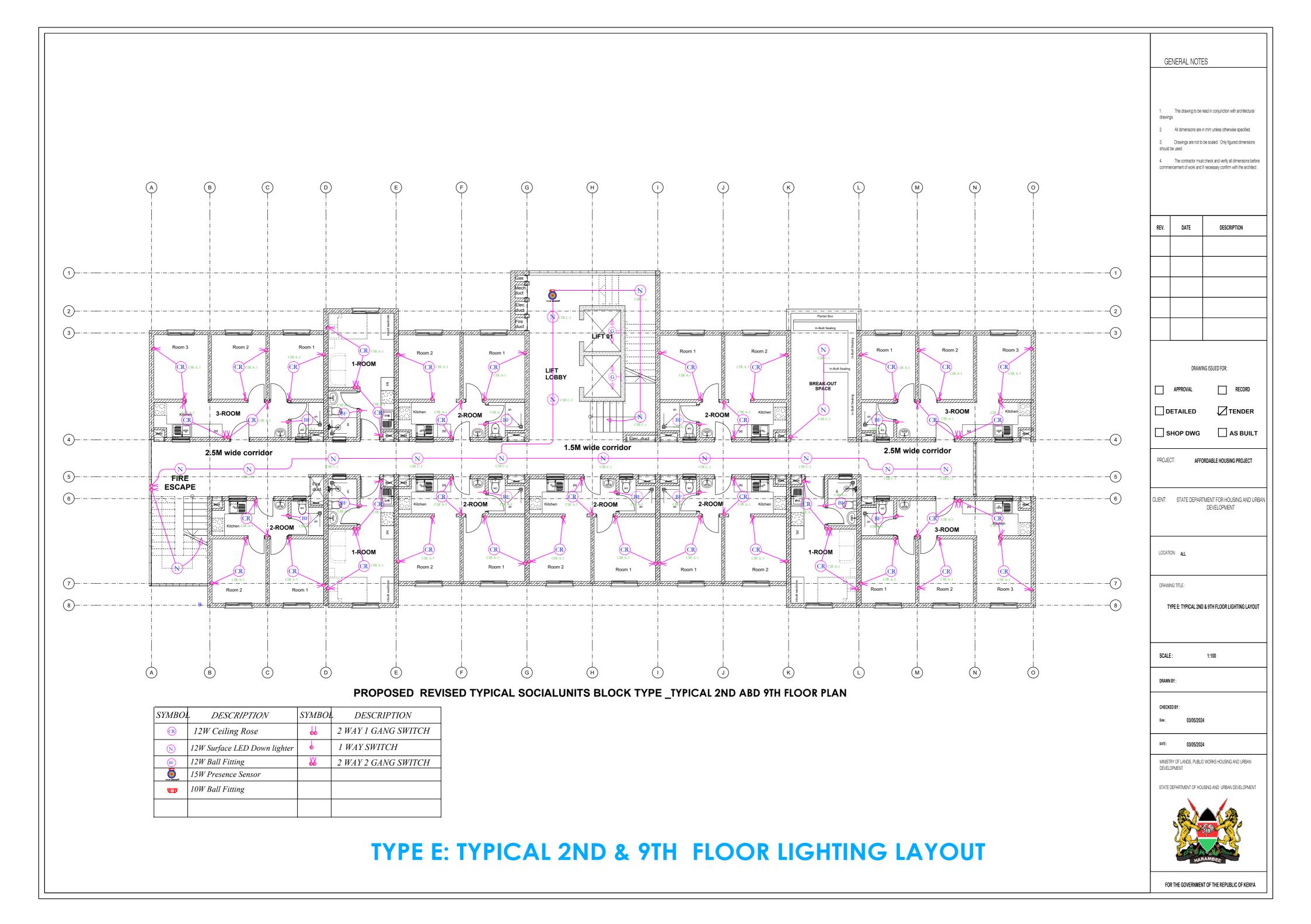


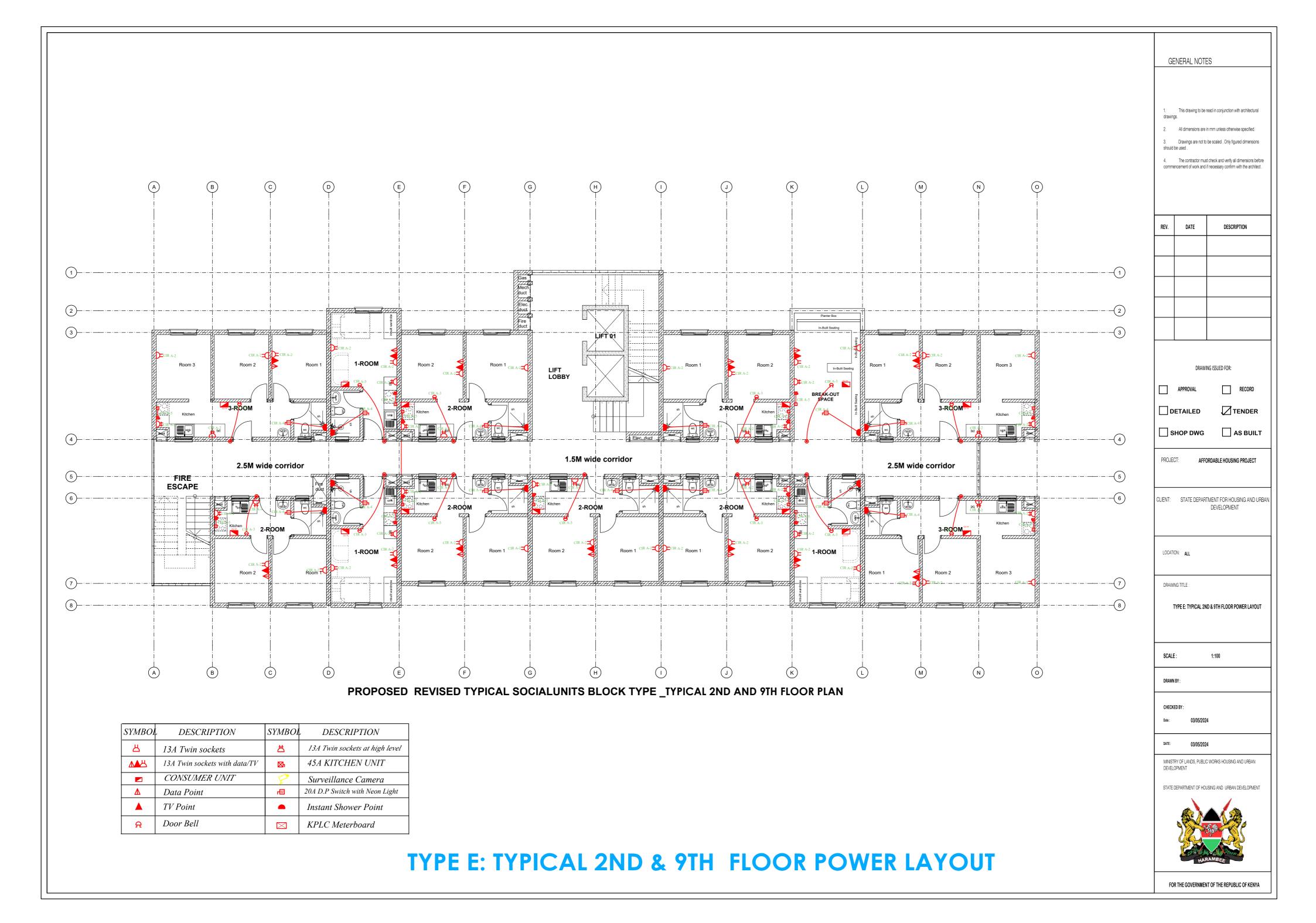
TYPE E: GROUND FLOOR POWER LAYOUT

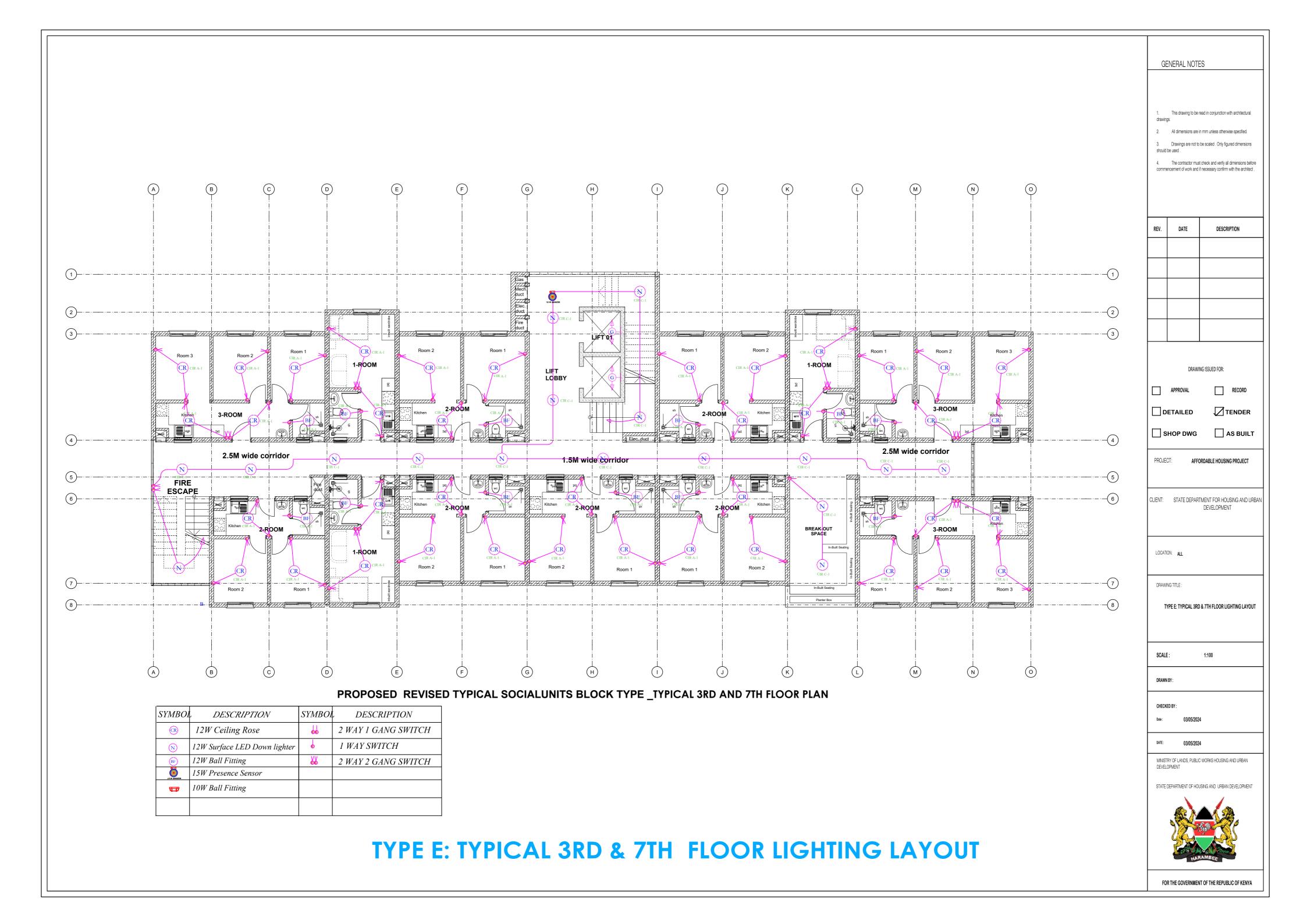
GENERAL NOTES This drawing to be read in conjunction with architectural 2. All dimensions are in mm unless otherwise specified. 3. Drawings are not to be scaled . Only figured dimensions 4. The contractor must check and verify all dimensions before DESCRIPTION DRAWING ISSUED FOR: **☑** TENDER AS BUILT AFFORDABLE HOUSING PROJECT CLIENT: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT TYPE E: GROUND FLOOR POWER LAYOUT 1:100 MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

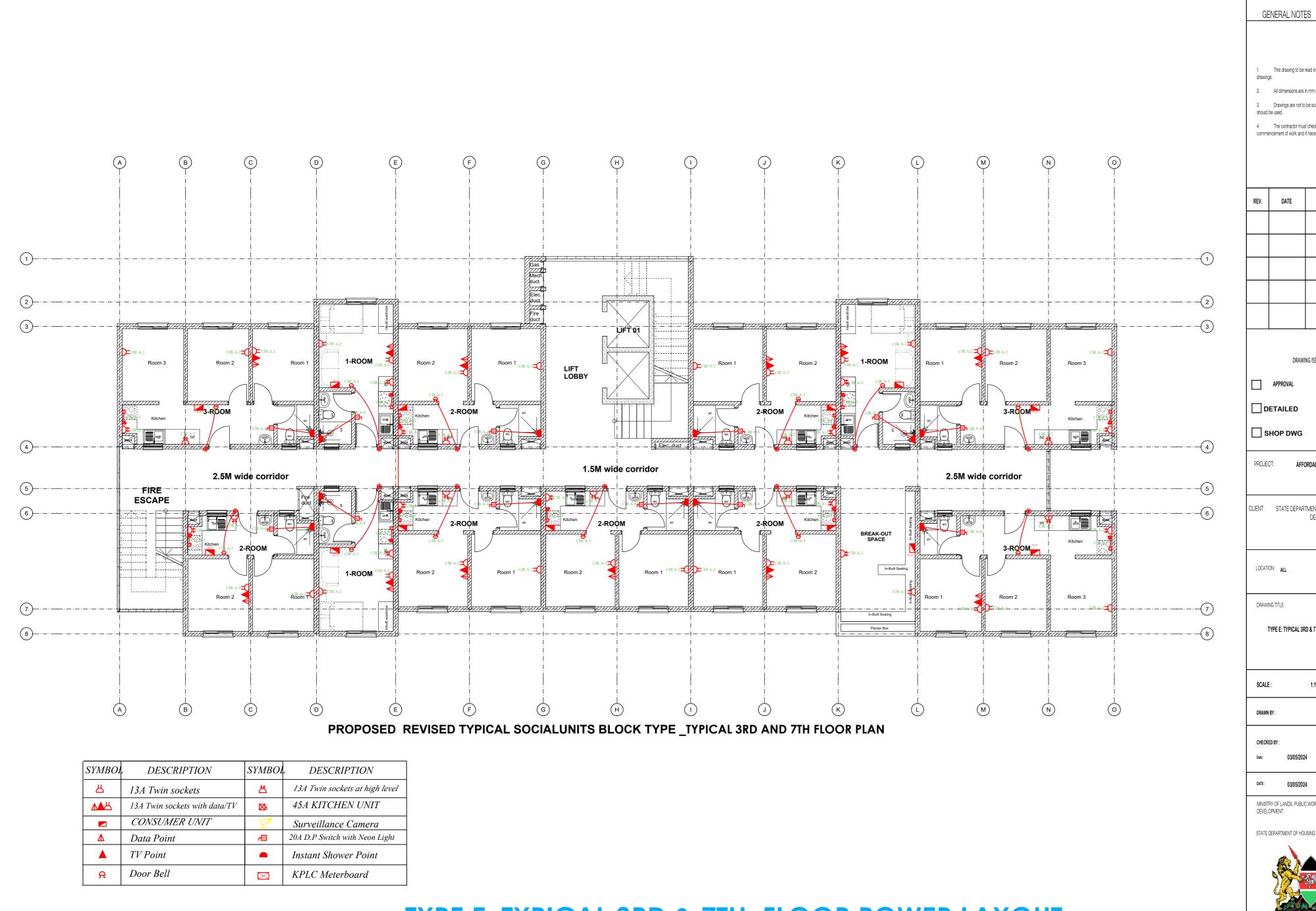








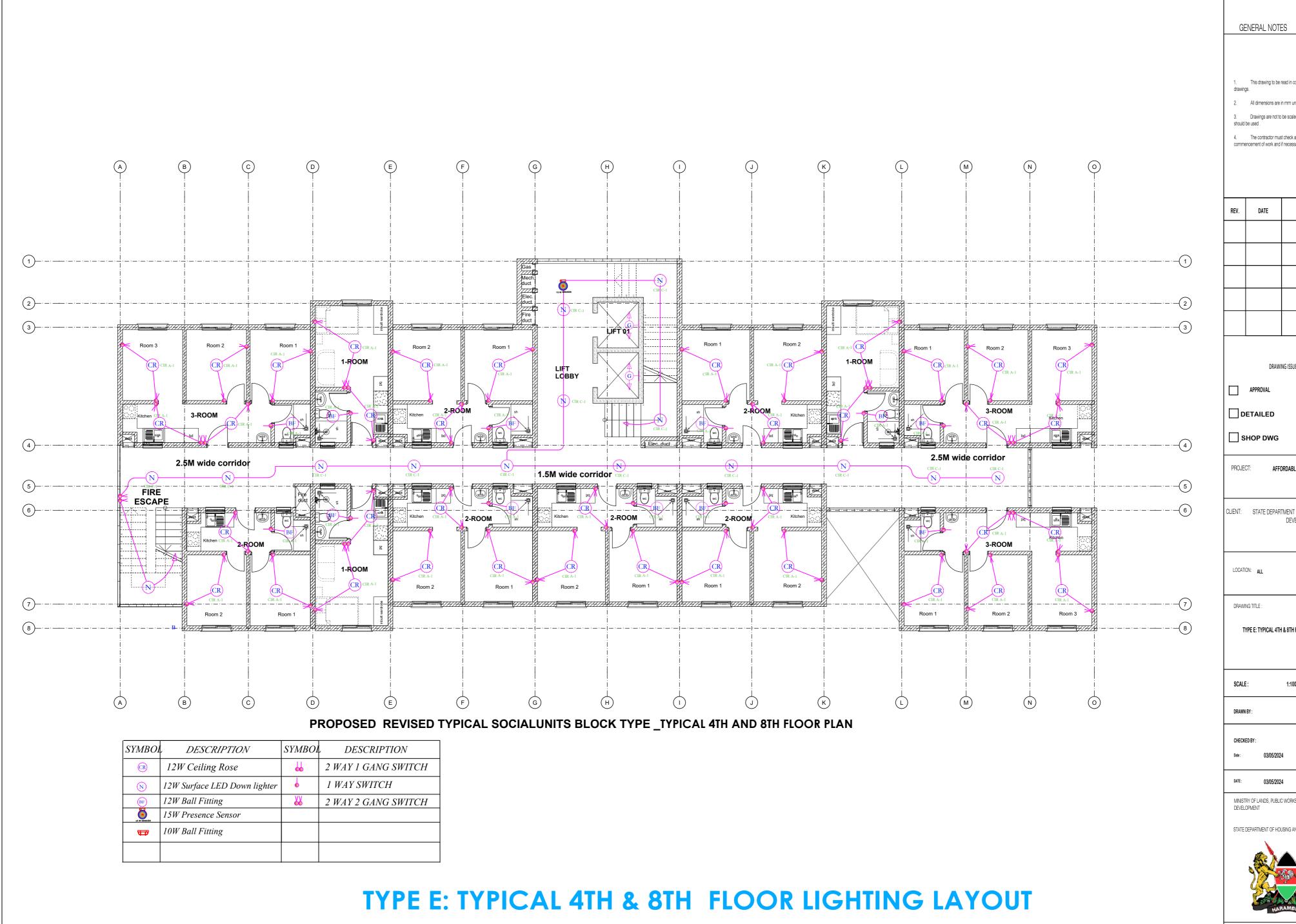




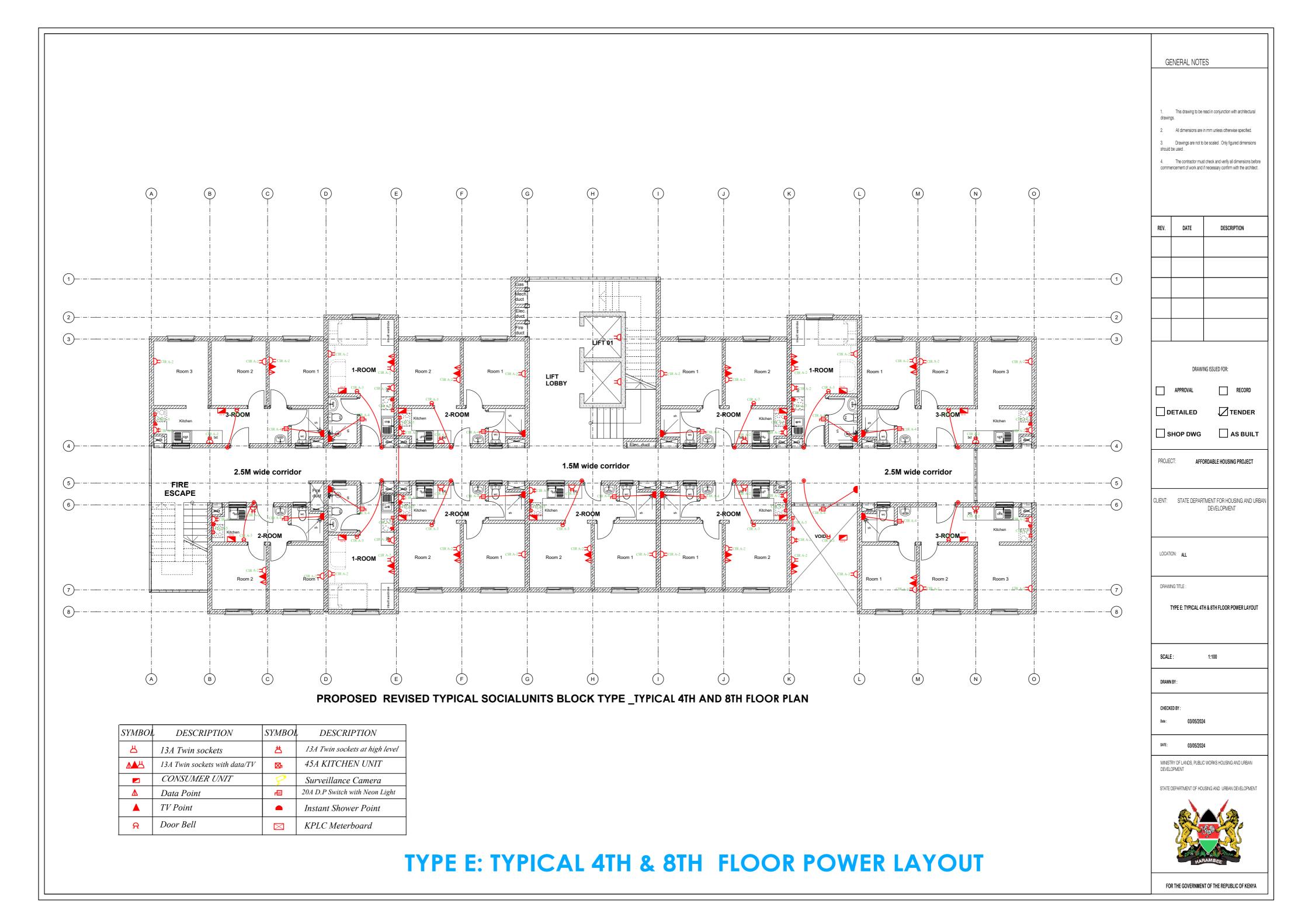
TYPE E: TYPICAL 3RD & 7TH FLOOR POWER LAYOUT

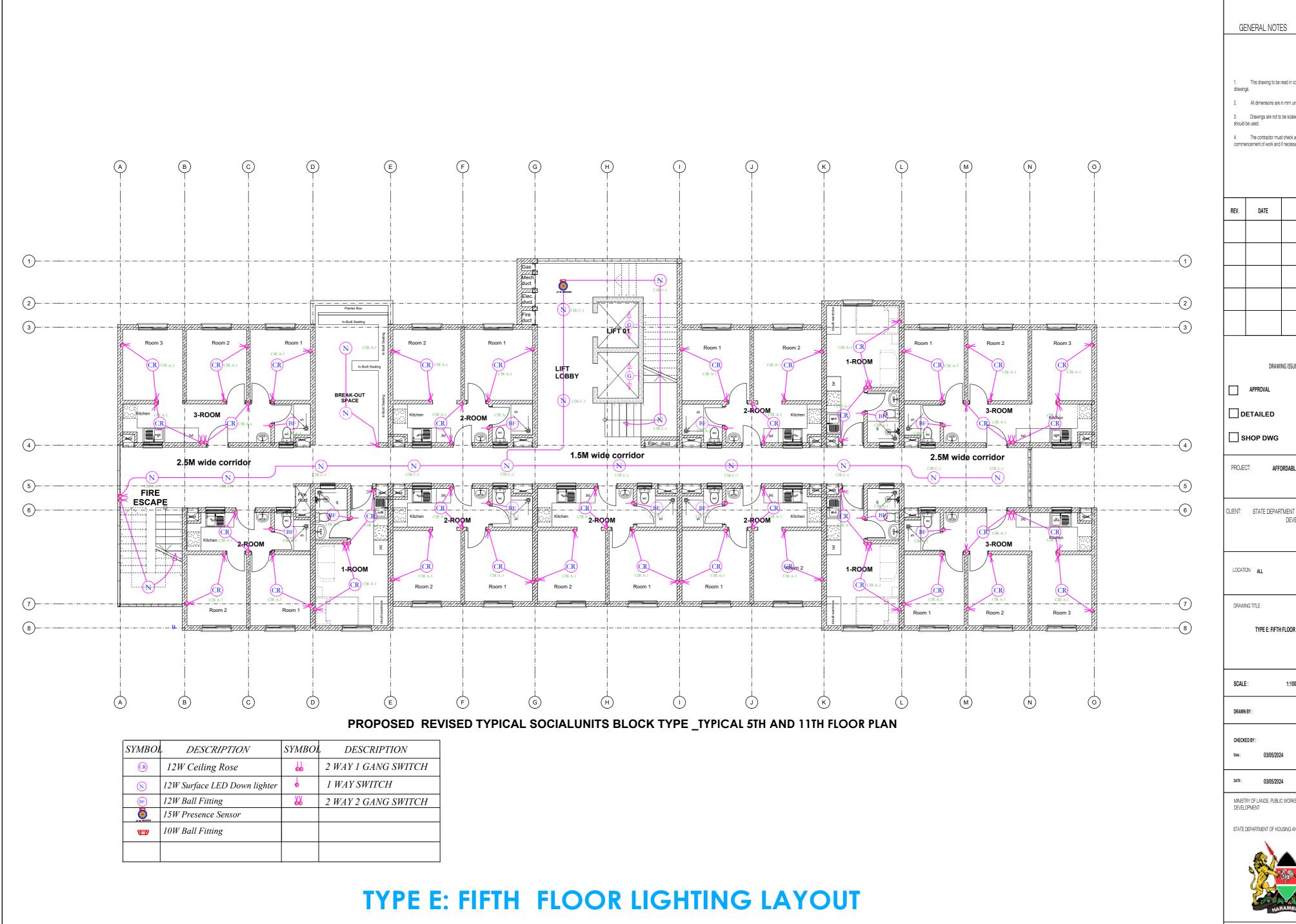
GENERAL NOTES This drawing to be read in conjunction with architectural All dimensions are in mm unless otherwise specified. 3. Drawings are not to be scaled . Only figured dimensions 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect . DESCRIPTION DRAWING ISSUED FOR: AS BUILT AFFORDABLE HOUSING PROJECT CLIENT: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT TYPE E: TYPICAL 3RD & 7TH FLOOR POWER LAYOUT MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



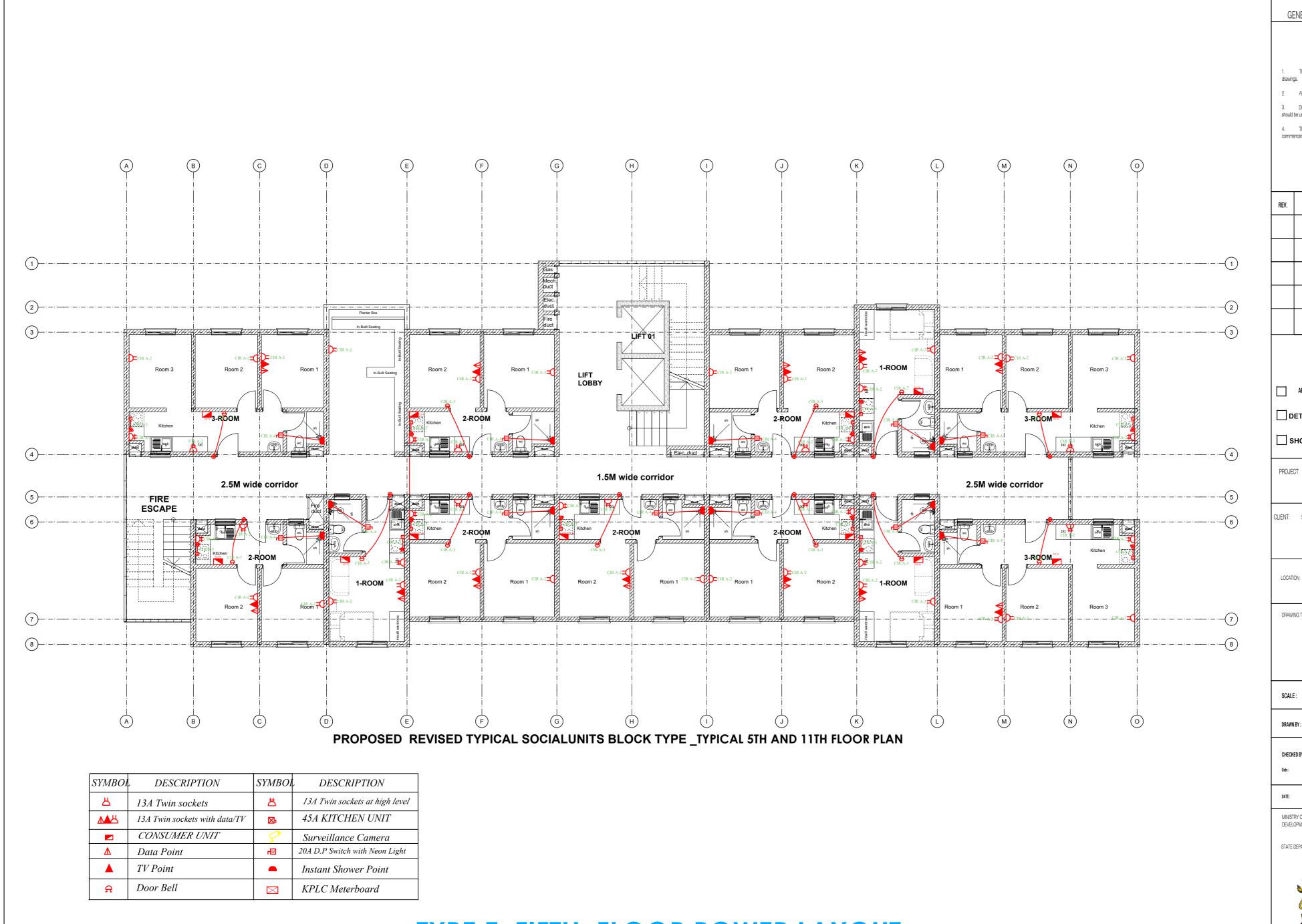


This drawing to be read in conjunction with architectural All dimensions are in mm unless otherwise specified. 3. Drawings are not to be scaled . Only figured dimensions 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect . DESCRIPTION DRAWING ISSUED FOR: RECORD **☑** TENDER AS BUILT AFFORDABLE HOUSING PROJECT CLIENT: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT TYPE E: TYPICAL 4TH & 8TH FLOOR LIGHTING LAYOUT MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



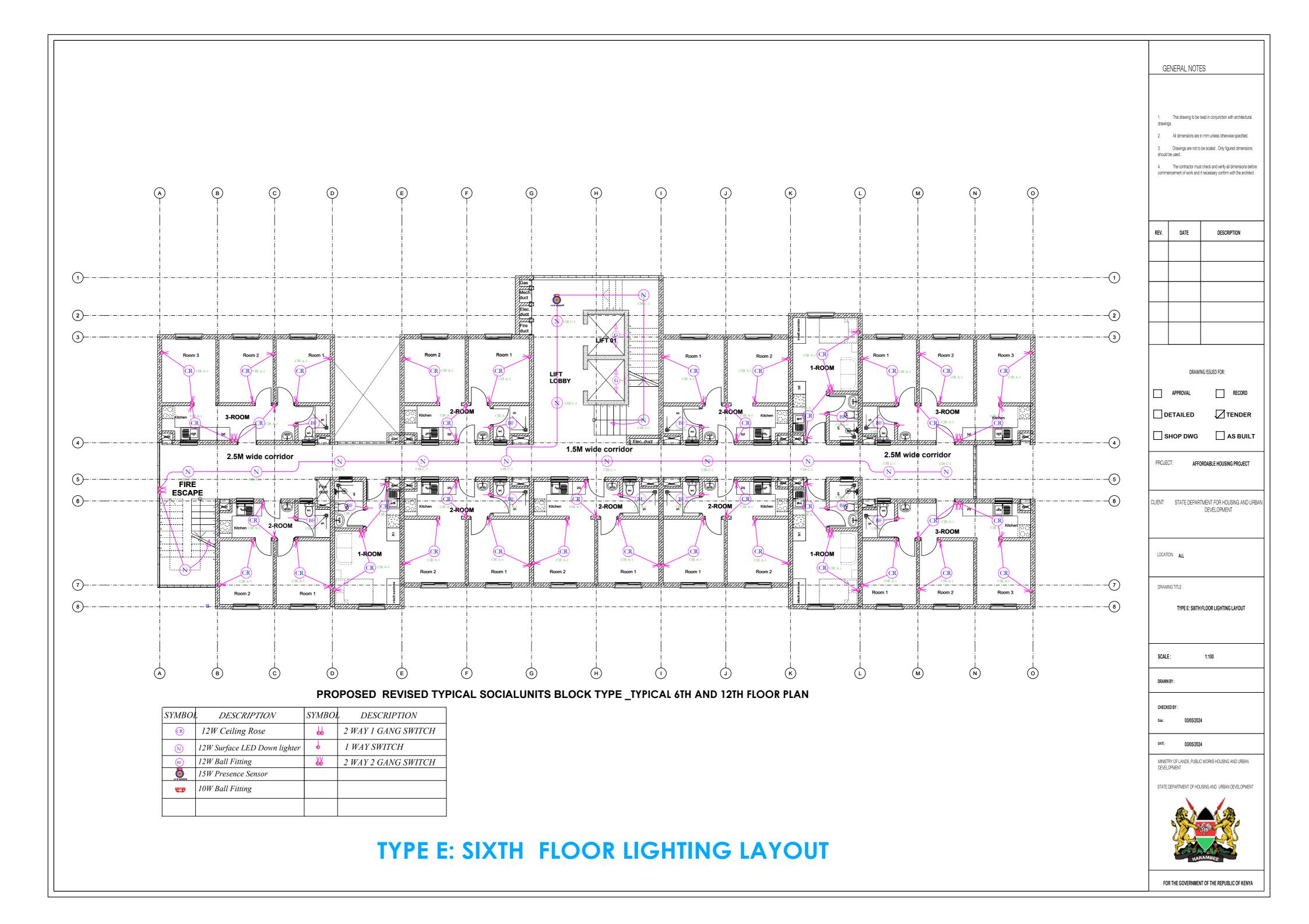


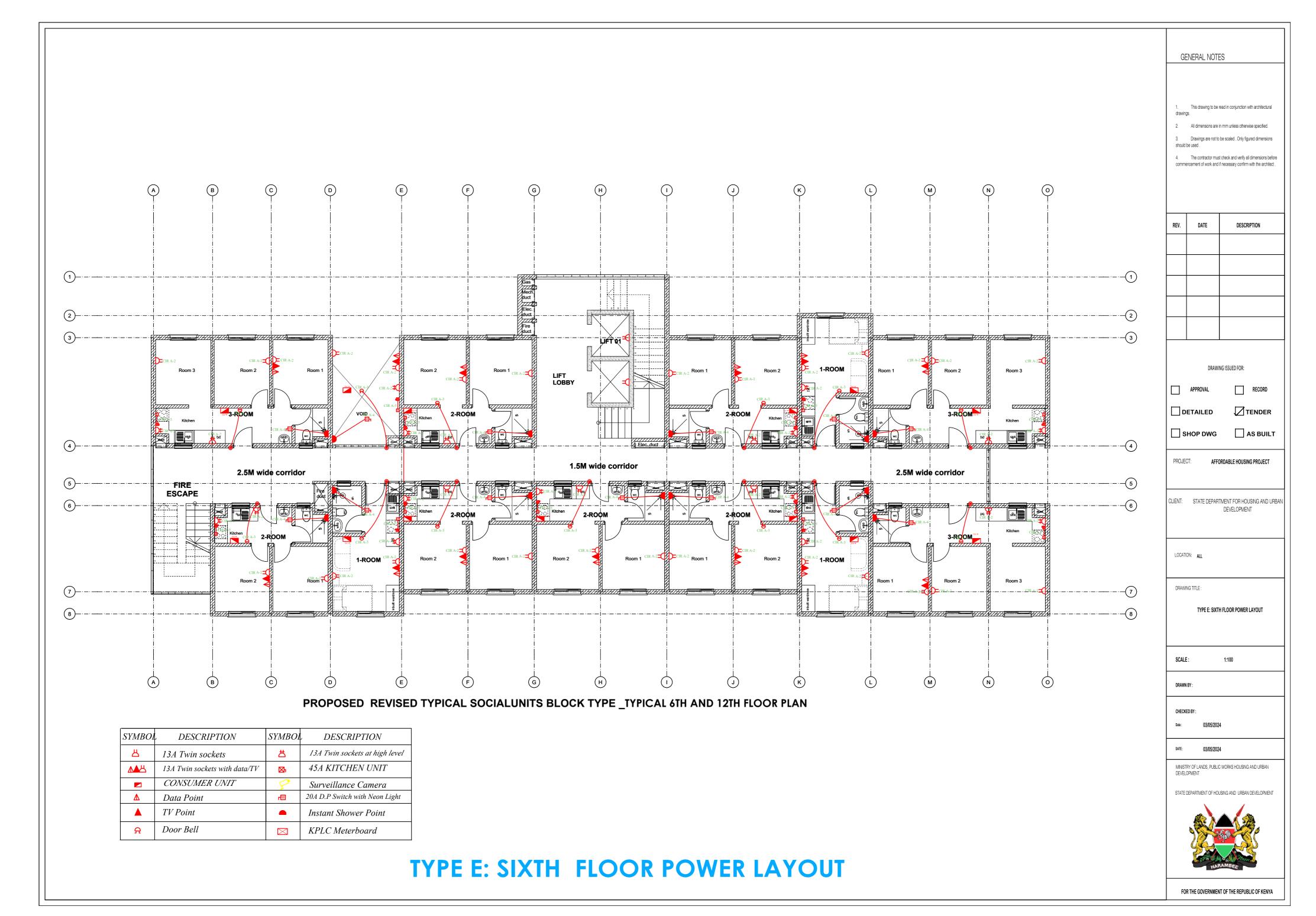
This drawing to be read in conjunction with architectural All dimensions are in mm unless otherwise specified. 3. Drawings are not to be scaled . Only figured dimensions 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect . DESCRIPTION DRAWING ISSUED FOR: RECORD **☑** TENDER AS BUILT AFFORDABLE HOUSING PROJECT CLIENT: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT TYPE E: FIFTH FLOOR LIGHTING LAYOUT MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

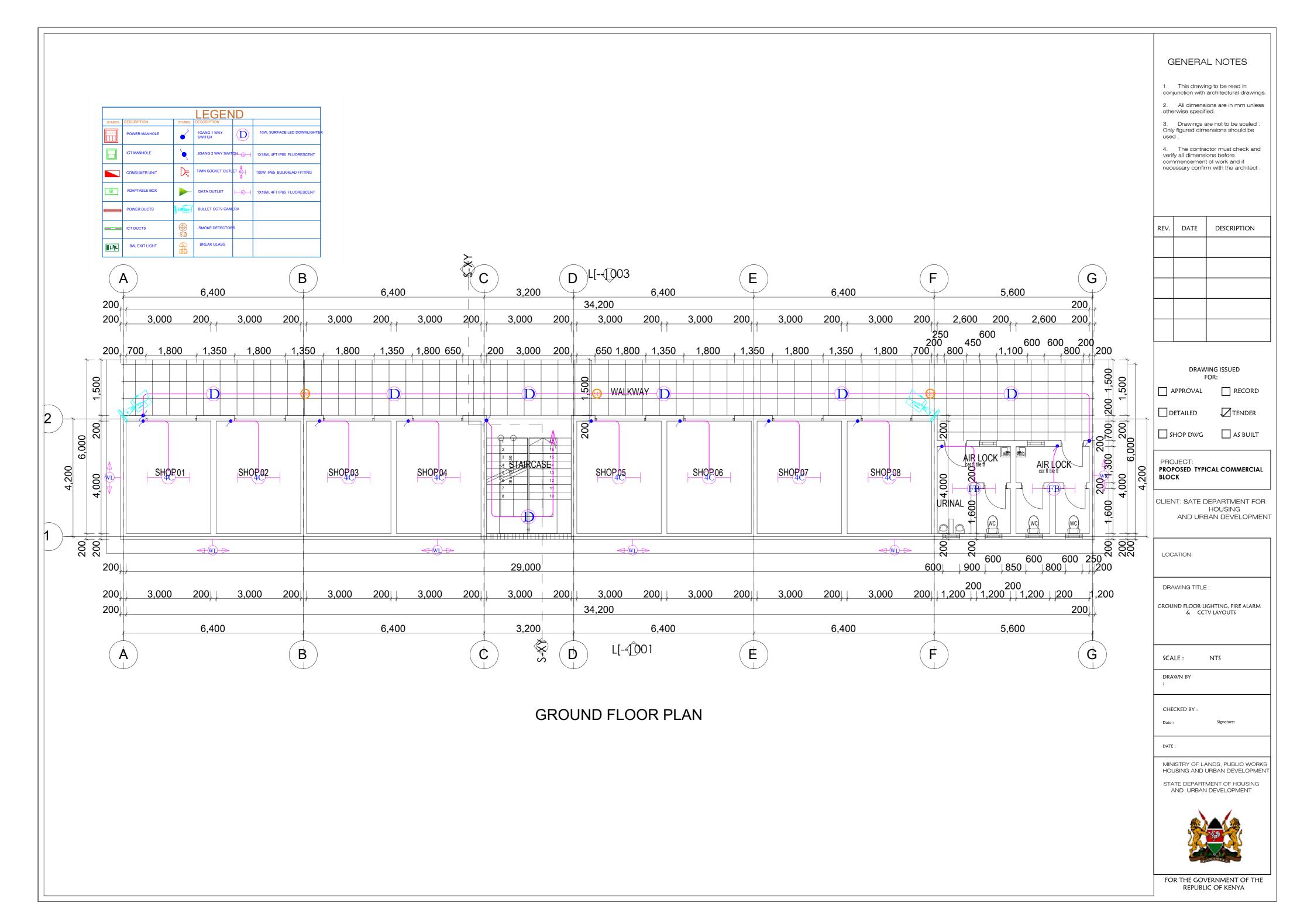


TYPE E: FIFTH FLOOR POWER LAYOUT

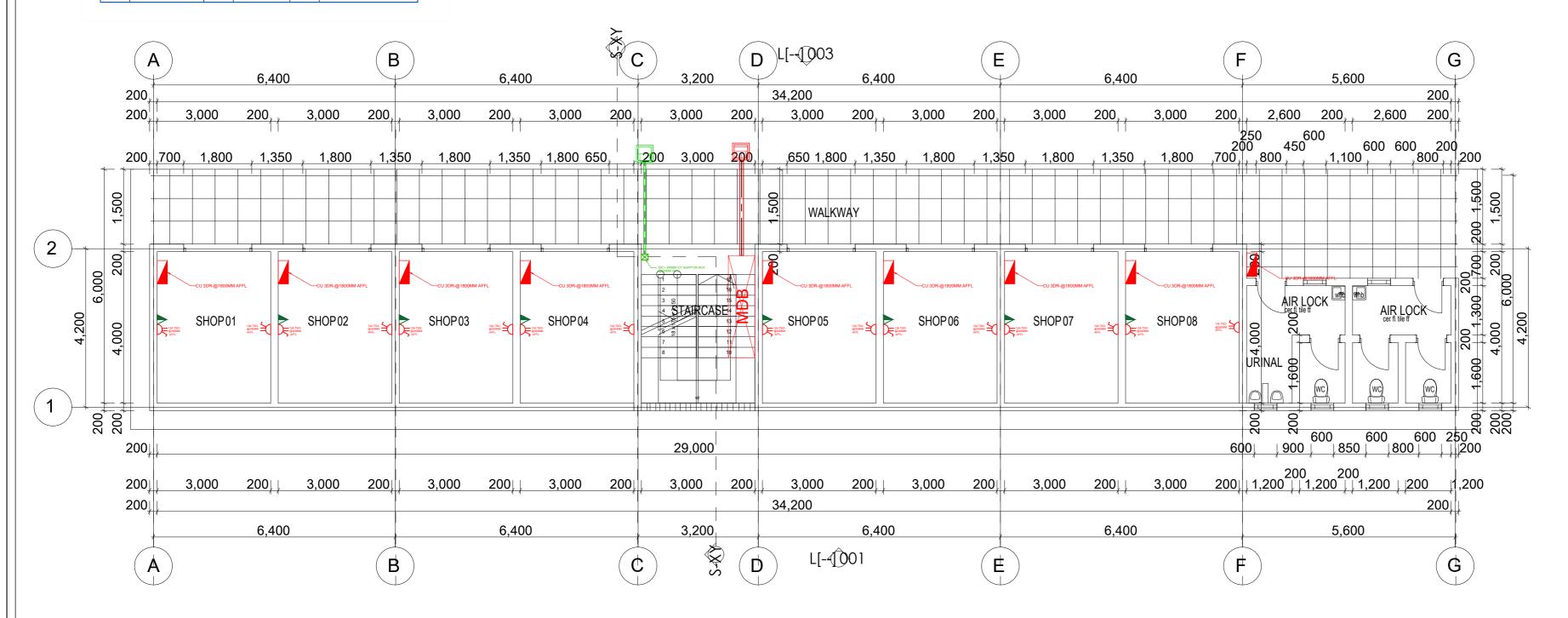
GENERAL NOTES Drawings are not to be scaled . Only figured dimensions 4. The contractor must check and verify all dimensions before DESCRIPTION DRAWING ISSUED FOR: RECORD DETAILED **☑** TENDER SHOP DWG AS BUILT AFFORDABLE HOUSING PROJECT CLIENT: STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT LOCATION: ALL TYPE E: FIFTH FLOOR POWER LAYOUT CHECKED BY: MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT







			LEGEN	1D	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION		
	POWER MANHOLE	•	1GANG 1 WAY SWITCH	D	10W, SURFACE LED DOWNLIGHT
	ICT MANHOLE	•	2GANG 2 WAY SWIT	CH IB	1X18W, 4FT IP65 FLUORESCENT
	CONSUMER UNIT	DĘ	TWIN SOCKET OUTL	ET (**)-	100W, IP65 BULKHEAD FITTING
AB	ADAPTABLE BOX	—	DATA OUTLET		1X19W, 4FT IP65 FLUORESCENT
	POWER DUCTS		BULLET CCTV CAMI	ERA	
	ICT DUCTS	⊕ S.D	SMOKE DETECTOR	S	
113 <u>6</u>	8W, EXIT LIGHT	BG	BREAK GLASS		



GROUND FLOOR PLAN

GENERAL I	NOTES
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- This drawing to be read in conjunction with architectural drawings.
- 2. All dimensions are in mm unless otherwise specified.
- 3. Drawings are not to be scaled Only figured dimensions should be used
- 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

REV.	DATE	DESCRIPTION

DRAWING ISSUED	
FOR:	

TENDER

APPROVAL	1	RECORD
	_	

CHOP DWG	☐ AS BUILT

PROJECT: PROPOSED TYPICAL COMMERCIAL BLOCK

CLIENT: SATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

LOCATION:	ΑL
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DETAILED

DRAWING TITLE :

GROUND FLOOR POWER & DATA LAYOUTS

SCALE: NTS

DRAWN BY

CHECKED BY :

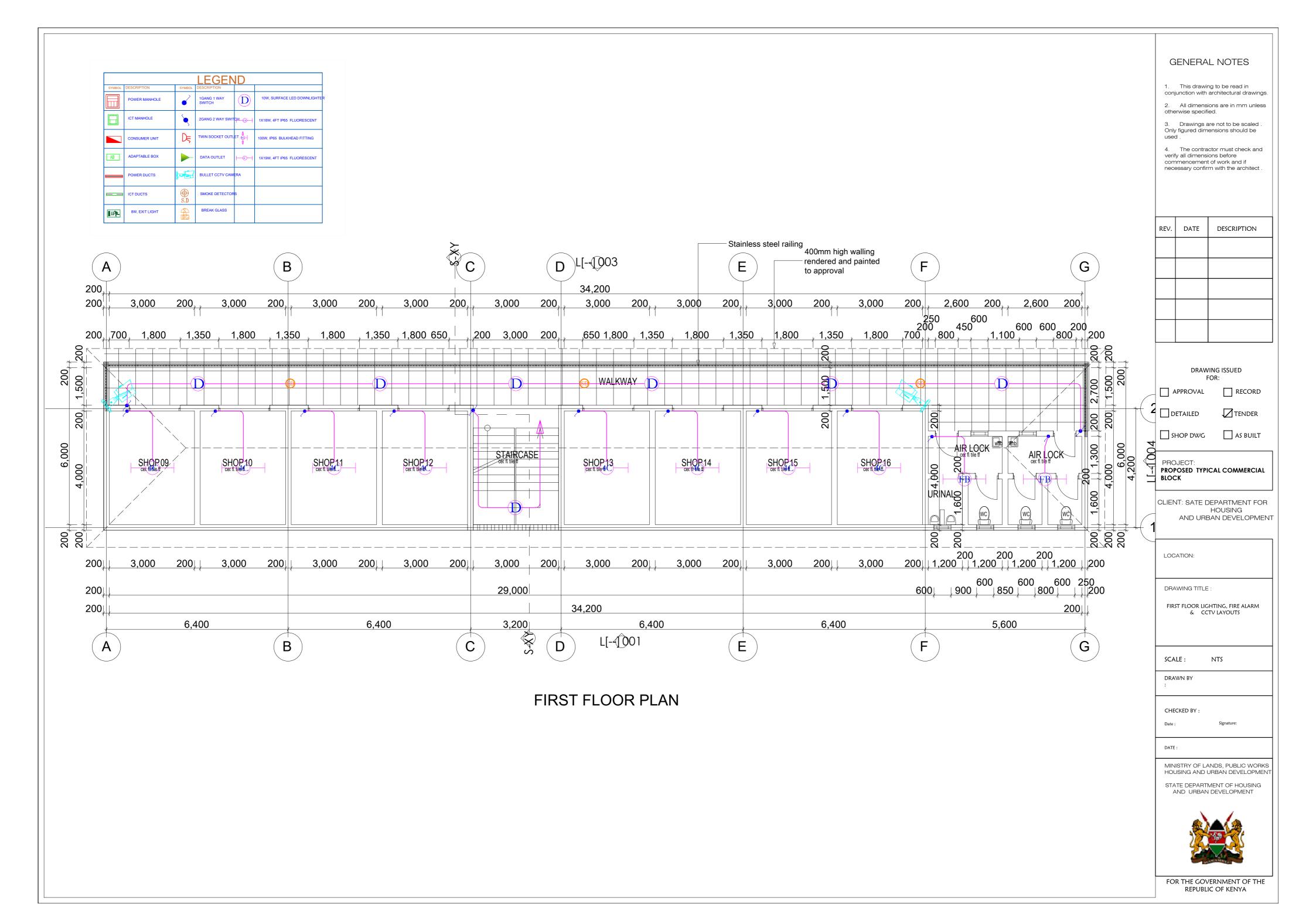
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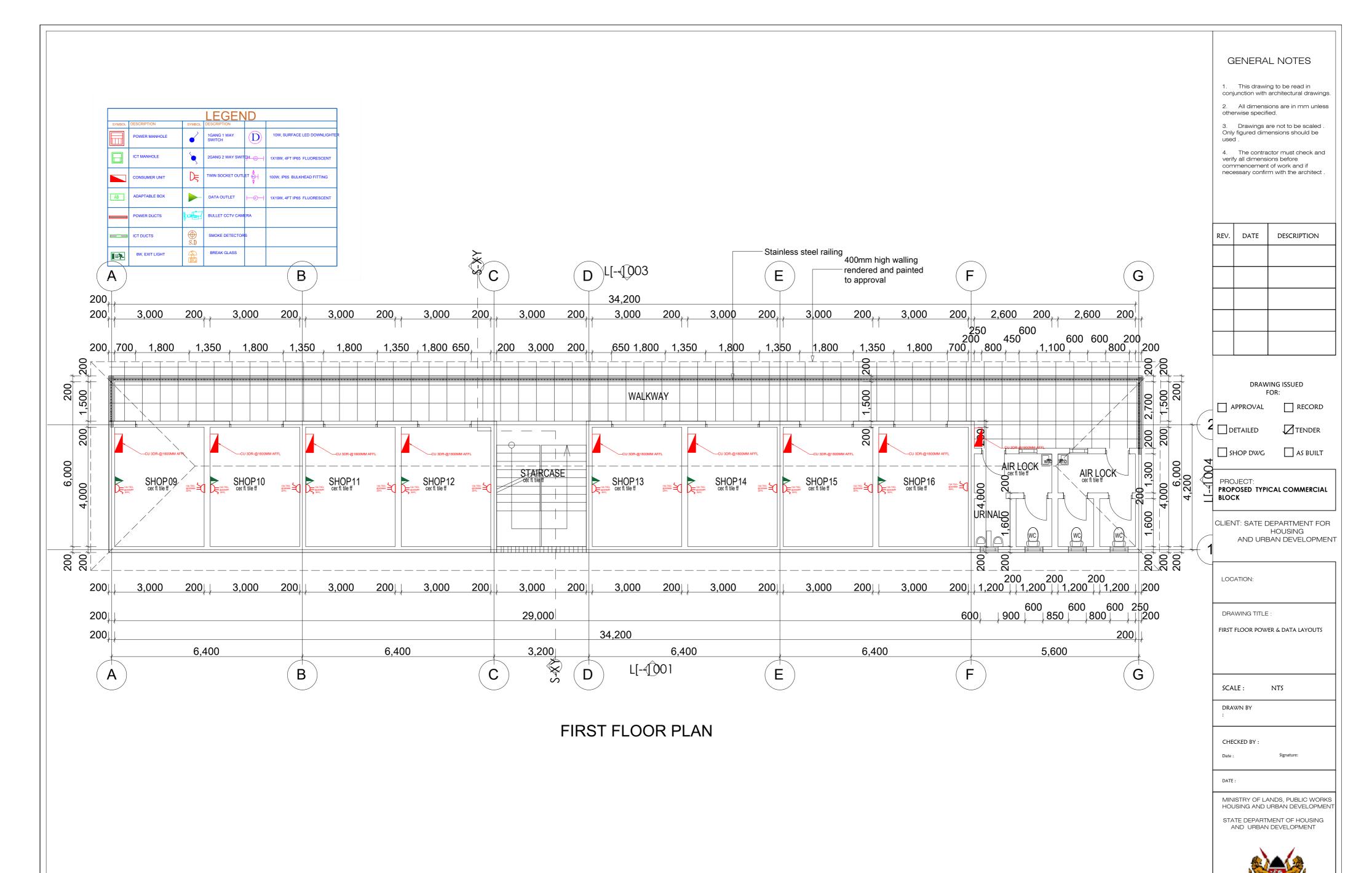
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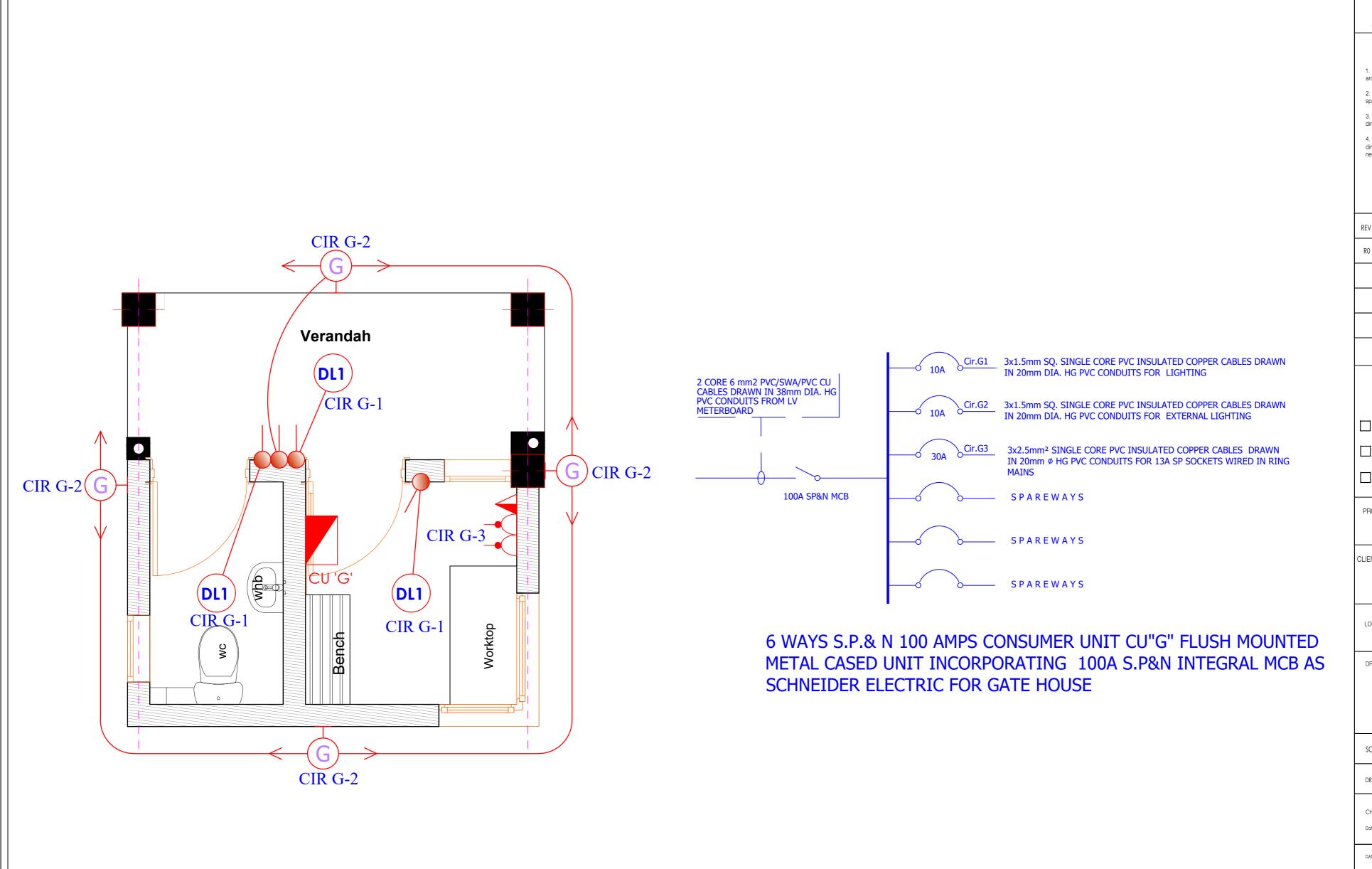
MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



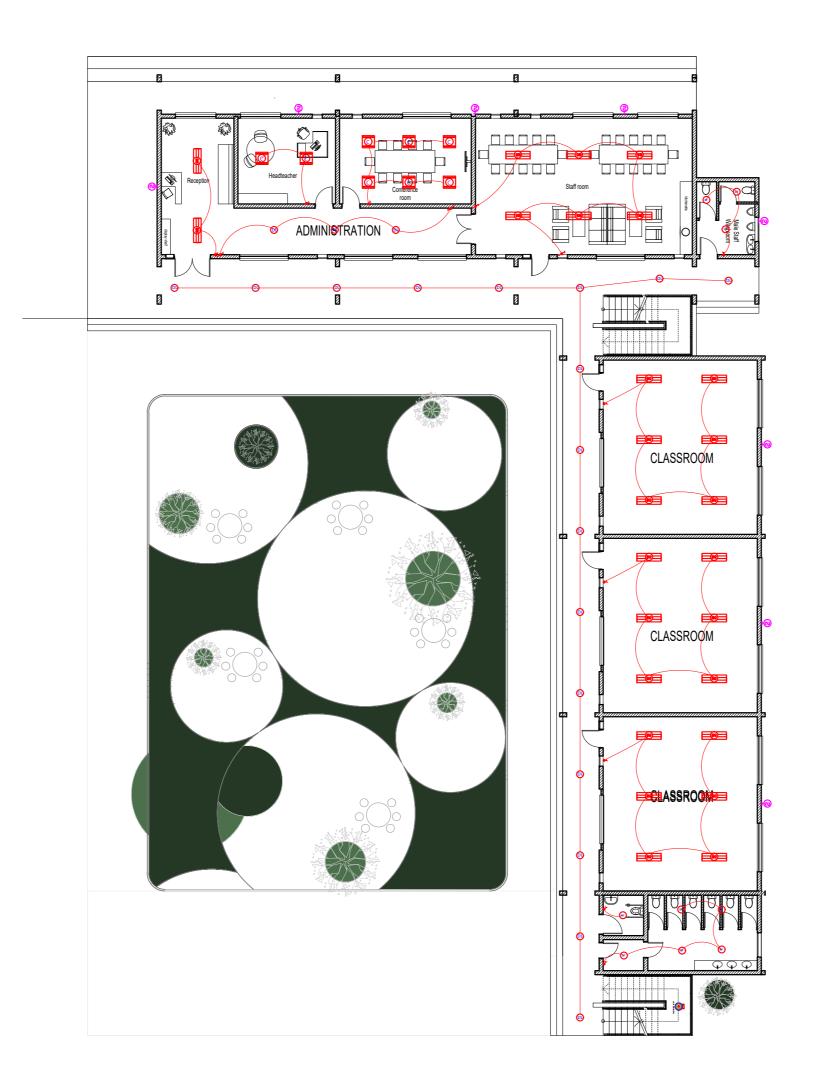






GATE HOUSE ELECTRICAL LAYOUT

GENERAL NOTES 1. This drawing to be read in conjunction with architectural drawings. All dimensions are in mm unless otherwise 3. Drawings are not to be scaled . Only figured dimensions should be used The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect . DESCRIPTION SITE POWER/ICT LAYOUT 13/3/24 DRAWING ISSUED FOR: RECORD DETAILED **TENDER** AS BUILT SHOP DWG PROJECT: SOCIAL HOUSING CLIENTSTATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT LOCATION: KASARANI DRAWING TITLE : GATE HOUSE ELECTRICAL LAYOUT SCALE: 1:100 B.M CHECKED BY: 13/03/2024 MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT



SYMBOL	DESCRIPTION	SYMBO	DESCRIPTION
8	12W Ceiling Rose	NEC.	2 WAY 1 GANG SWITCH
00	12W Surface LED Down lighter	*	1 WAY SWITCH
6	12W Ball Fitting	*	2 WAY 2 GANG SWITCH
<u></u>	15W Presence Sensor		40W 1200x300mm LED Pane
•	10W Ball Fitting		
<u>\$</u>	18W Security Lights		

KINDERGATTERN GROUND FLOOR LIGHTING LAYOUT

GENERAL NOTES

- This drawing to be read in conjunction with architectural drawings.
- 2. All dimensions are in mm unless otherwise specified.
- Drawings are not to be scaled .
 Only figured dimensions should be
- 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

REV.	DATE	DESCRIPTION

DRAWING ISSUED FOR:

APPROVAL RECORD

DETAILED

SHOP DWG AS BUILT

☑ TENDER

PROJECT: AFFORDABLE HOUSING PROJECT

CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

LOCATION: ALL

DRAWING TITLE :

GROUND FLOOR LIGHTING LAYOUT

SCALE: 1:100

DRAWN BY :

CHECKED BY :

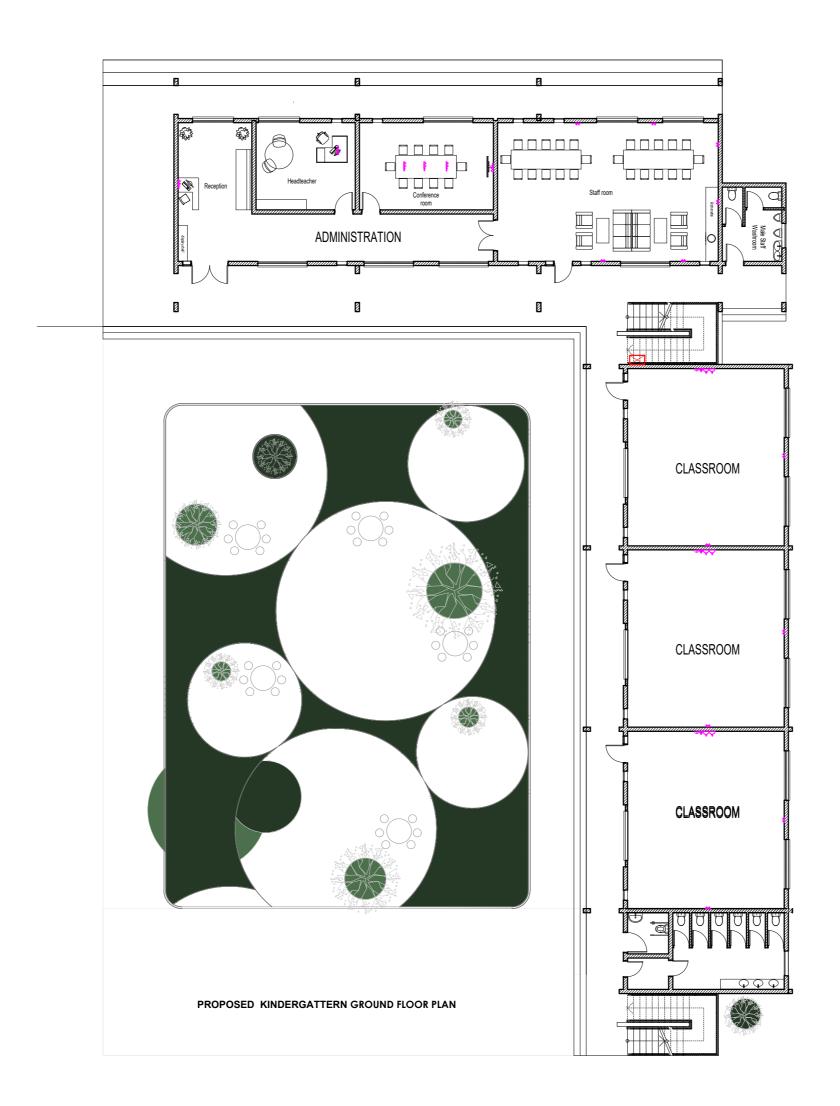
Date: 23/04/2024

DATE: 23/04/2024

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT





SYMBOL	DESCRIPTION	SYMBOI	DESCRIPTION
	13A Twin sockets	Ą	3-ph ISOLATOR
∆∆.	13A Twin sockets with data	á	45A KITCHEN UNIT
	CONSUMER UNIT	5	Surveillance Camera
\boxtimes	DISTRIBUTION BOARD	0	20A D.P Switch with Neon Light
٨	TV Point	**	Instant Shower Point
B	Door Bell		KPLC Meterboard
-	5 pin Industrial Socket		

KINDERGATTERN GROUND FLOOR POWER LAYOUT

GENERAL NOTES

- This drawing to be read in conjunction with architectural drawings.
- 2. All dimensions are in mm unless otherwise specified.
- 3. Drawings are not to be scaled . Only figured dimensions should be
- 4. The contractor must check and verify all dimensions before commencement of work and if necessary confirm with the architect.

REV.	DATE	DESCRIPTION

DRAWING	ISSUED
FOR:	

☑ TENDER

APPROVAL	П	RECORD
ALLKOVAL	- 1 1	KLCCKD

	╽┕	DET	AILED
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PROJECT: **AFFORDABLE HOUSING PROJECT**

CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

LOCATION: ALL

DRAWING TITLE :

GROUND FLOOR POWER LAYOUT

SCALE: 1:100

DRAWN BY:

CHECKED BY :

Date: 23/04/2024

DATE: 23/04/2024

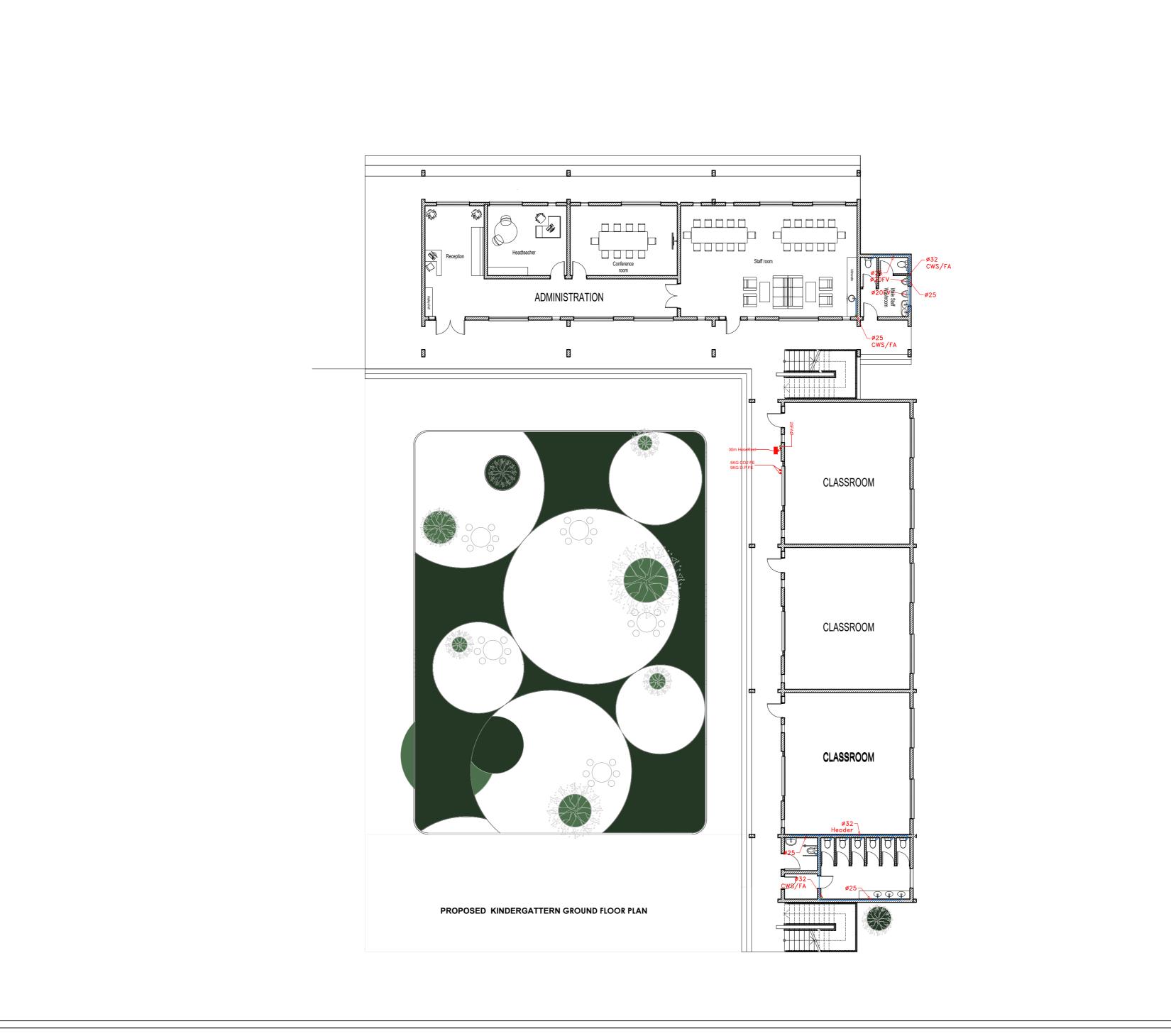
MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT









- 1. All dimensions are in millimetres unless otherwise stated.
 2. All drawing shall be read together with Architects and Civil Engineers drawings
 3. All valves to be of brass/ bronze heavy pattern construction as 'peglar' or approved equalvalent
 4. Pipes under floorslab/driveway/walkway car park etc to be sleeved in heavy duty UPVC or GMS pipe as instructed and to be encased in 150mm diameter concrete surround.
 5. All Drainage pipes above Ground shall be Upvc grey while those below shall be Pvc golden brown, all heavy duty (class 41, 2.5mm thick) Sample shall be approved before installation commences.
 6. Pipes shall be pressure tested before plastering of walls commences.
- All pipeswork shall run in wall chase, underfloor, underworkt in ceiling voids etc. exposed pipe work shall not be accepted
 The exact location of all fittings to be confirmed on site

REV.	DATE	DESCRIPTION	
	DRAWING ISSUED FOR:		
A	PPROVAL	RECORD	
□□	ETAILED	TENDER	
SHOP DWG AS BUILT			
PROJECT:			
CLIENT:STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT			
LOC	ATION:		
DRAWING TITLE : MECHANICAL SERVICES AHP KINDERGATTERN DOUBLE PLUMBING AND DRAINAGE LAYOUT			
SCA	SCALE: 1:100		
DRA	.WN BY :		

MINISTRY OF LANDS, PUBLIC WORKS HOUSING AND URBAN DEVELOPMENT STATE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

SCALE 1: 100

CHECKED BY :



