



REPUBLIC OF KENYA

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

STATE DEPARTMENT FOR PUBLIC WORKS

**PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI
TEACHERS TRAINING COLLEGE.**

W. P. ITEM No.....

UNPRICED BILL OF QUANTITIES

COUNTY PUBLIC WORKS OFFICER
STATE DEPARTMENT FOR PUBLIC WORKS,
P.O. BOX 20200,
KERICHO.

CLIENT
SOLAI TEACHERS TRAINING COLLEGE
P.O BOX 12199-20100
NAKURU.

JUNE 2026

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	K.SHS
<p align="center">A</p> <p align="center">B</p> <p align="center">C</p> <p align="center">D</p> <p align="center">E</p> <p align="center">F</p>	<p><u>PARTICULAR PRELIMINARIES</u></p> <p>EMPLOYER The Employer is Solai Teachers Training College, The term "Employer" and "Government" wherever used in the contract document shall be synonymous.</p> <p>PROJECT MANAGER The term "PM" wherever used in these Bills of Quantities shall be deemed to imply the project Manager 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 .</p> <p>ARCHITECT The term "Architect" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands Public Works Housing and Urban Development , P.O Box 20200 KERICH0</p> <p>QUANTITY SURVEYOR The term "Quantity Surveyor" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands Public Works Housing and Urban Development P.O Box 20200 KERICH0</p> <p>ELECTRICAL ENGINEER The term "Electrical Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands Public Works Housing and Urban Development, P.O Box 20200 KERICH0</p> <p>MECHANICAL ENGINEER The term "Mechanical Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands Public Works Housing and Urban Development, P.O Box 20200 KERICH0</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
A	LOCATION OF SITE The site is Located at the Solai Teachers Training College . The Contractor is advised to visit the site, to familiarize with the nature and position of the site. No claims arising from the Contractor's failure to do so will be entertained.	
B	CLEARING AWAY The Contractor shall remove all temporary works, rubbish, debris and surplus materials from the site as they accumulate 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 Project Manager. The whole of the works shall be delivered up clean, complete and in perfect condition in every respect to the satisfaction of the Project Manager.	
C	CLAIMS 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 PROJECT MANAGER within the contract period. No claim shall be entertained upon the expiry of the said contract period.	
D	PAYMENTS The tenderer's attention is drawn to the fact that the CLIENT DOES NOT MAKE ADVANCE PAYMENTS but pays for work done and materials delivered to site: all 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	
	Carried to collection	-

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	K.SHS
A	<p>STRUCTURAL ENGINEER</p> <p>The term "Structural Engineer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands Public Works Housing and Urban Development , P.O Box 20200 KERICHO</p>	
B	<p>CHIEF DESIGNER</p> <p>The term "Chief Designer" shall be deemed to mean "The P.M " as defined above whose address unless otherwise notified is Ministry of Lands Public Works Housing and Urban Development , P.O Box 20200 KERICHO.</p>	
C	<p>PRICING ITEMS OF PRELIMINARIES</p> <p>Prices SHALL BE INSERTED against items of "preliminaries" in the tenderer's priced Bills of Quantities. The contractor is advised to read and understand all preliminary items.</p> <p><u>SCOPE OF CONTRACT AND DESCRIPTION OF WORKS</u></p> <p>The works comprises of the Proposed Tuition Block Solai Teachers Training College</p> <p>The construction comprises of substructure, reinforced concrete, walling , windows, doors, finishes and roof structure. And external works (cabro works, septic tank and soakpit)</p>	
D	<p>MEASUREMENTS</p> <p>In the event of any discrepancies arising between the Bills of Quantities and the actual works, the site measurements shall generally take precedence. However, such discrepancies between any contract documents shall immediately be referred to the PROJECT MANAGER in accordance with Clause 13 of the Conditions of Contract. The discrepancies shall then be treated as a variation and be dealt with in accordance with Clause 13 of the said Conditions.</p> <p>PROJECT DOCUMENTATION</p> <p>Provide, prepare, maintain and submit all project documentation required for the administration, supervision and completion of the works. The item shall include preparation and maintenance of correspondence, meeting notices and minutes, site inspection reports, progress reports, valuation reports, variation records, instructions, quality control records, snag lists, practical completion reports, defects liability inspections, final completion reports, record drawings, project handover documentation, final accounts documentation, electronic records, printing, photocopying, binding and all associated administrative costs necessary for the proper execution of the consultancy services in accordance with the Conditions of Contract. Provide, install, commission and maintain Two (2 No.) new laptop or desktop computers for the exclusive use of the Consultant's supervision team throughout the contract period.</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
E	<p>PREVENTION OF ACCIDENT, DAMAGE OR LOSS</p> <p>The Contractor is notified that these works are to be carried out on a restricted site where the client is going on with other normal activities. 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 by the Client. The Contractor shall allow in his rates any expense he deemed necessary by taking such care within the site.</p>	
A	<p>WORKING CONDITIONS</p> <p>The Contractor shall allow in his rates for any interference that he may encounter in the course of the works for the Client may in some cases ask the Contractor not to proceed with the works until some activities within the site are completed, as the facility will be operating as usual during the course of the contract.</p>	
B	<p>SIGNBOARD</p> <p>Allow for providing, erecting, maintaining throughout the course of the Contract and afterwards clearing away a signboard as designed, specified and approved by the Project Manager.</p>	
C	<p>LABOUR CAMPS</p> <p>The Contractor shall not be allowed to house labour on site. Allow for transporting workers to and from the site during the tenure of the contract.</p>	
D	<p>MATERIALS FROM DEMOLITIONS</p> <p>Any materials arising from demolitions and not re-used shall become the property of the client. The Contractor shall allow in his rates the cost of disposing the demolished materials as directed.</p>	
E	<p>PRICING RATES</p> <p>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.</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
F	<p>URGENCY OF THE WORKS</p> <p>The Contractor is notified that these “works are urgent” and should be completed within the period stated in these Particular Preliminaries.</p> <p>The Contractor shall allow in his rates for any costs he/ she deems that he/she may incur by having to complete these works within the stipulated contract period.</p>	
G	<p>PAYMENT FOR MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on site before payment is effected, unless specifically exempted by the Project Manager. This is to include materials of the Contractor, nominated sub-Contractors and nominated suppliers.</p>	
A	<p>EXISTING SERVICES</p> <p>Prior to the commencement of any work, the Contractor is to ascertain from the relevant authority the exact position, depth and level of all existing services in the area and he/she shall make whatever provisions may be required by the authorities concerned for the support, maintenance and protection of such services.</p>	
B	<p>CONTRACT COMPLETION PERIOD</p> <p>The contract completion period in accordance with condition 31 of the Conditions of contract must be adhered to.</p> <p>The ‘PROJECT MANAGER’ shall strictly monitor the Contractors progress in relation to the progress chart and should it be found necessary the ‘PROJECT MANAGER’ shall inform the Contractor in writing that his actual performance on site is not satisfactory .In all such cases the Contractor shall accelerate his rate of performance production and progress by all means such as additional labour,plant, e.t.c and working overtime all at his cost.</p>	
C	<p>PERFORMANCE BOND</p> <p>A bond of 5% of the contract sum will be required in accordance with clause 48 (as amended) on award of contract of the Instructions to Tenderer’s. No payment on account for the works executed will be made to the contractor until he has submitted the Performance Bond to the Project Manager duly signed, sealed and stamped from an approved Bank.</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
D	TENDER DOCUMENTS Tender documents are as listed in Clause 6 of the Instruction to Tenderer's	
E	DELIVERY OF TENDER Tenders and all documents in connection therewith, as specified above must be delivered in the addressed envelope which should be properly sealed and deposited at the offices as specified in the letter accompanying these documents or as indicated in the advertisement. Tenders will be opened at the time specified in the letter accompanying these Tender Documents or as indicated in the advertisement. Tenders delivered/received later than the above time will not be opened.	
A	VALUE ADDED TAX The Contractor's attention is drawn to the Legal Notice in the Finance Act part 3 Section 21(b) operative from 1 st September, 1993 which requires payment of VAT on all contracts. The Contractor should therefore include allowance in his rates and prices for VAT and any other Government taxes currently in force. The tenderer is advised that in accordance with Government public notice No. 35 & 36 Dated 11 th September 2003 operational from 1 st October 2003, VAT will be deducted against the contract sum at the prevailing rate by the Employer and remitted directly to the Commissioner of VAT through all interim certificates. It should however be noted that this is not additional tax but a new mode of payment for VAT, any excess payment will be refundable once the Contractor has submitted monthly returns to the Commissioner of VAT who will do the refunds when satisfied that the VAT regulations have been complied with. NB: The Contractor should therefore include the tax within the rates.	
	Carried to collection	

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ITEM	DESCRIPTION	K.SHS
B	<p><u>PARTICULARS OF INSERTIONS TO BE MADE IN APPENDIX TO CONTRACT AGREEMENT</u></p> <p>The following are the insertions to be made in the appendix to the Contract Agreement: -</p> <p>Period of Final Measurement 3 Months From Practical completion</p> <p>Defects Liability Period 6 Months from Practical completion</p> <p>Date for Possession To be agreed with the Project Manager</p> <p>Date for Completion Weeks from date of Possession</p> <p>Liquidated and Ascertained At the rate of Kshs.. 20,000... per week or part thereof:</p> <p>Prime cost sums for which The Contractor desires to tender</p> <p>Period of Interim Certificates Monthly</p> <p>Period of Honouring Certificates 30 days</p> <p>Percentage of Certified Value Retained 10%</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
	<p align="center"><u>COLLECTION</u></p> <p align="center">Brought forward from page PP/1</p> <p align="center">Brought forward from page PP/2</p> <p align="center">Brought forward from page PP/3</p> <p align="center">Brought forward from page PP/4</p> <p align="center">Brought forward from page PP/5</p> <p align="center">Brought forward from page PP/6</p> <p align="center">Brought forward from page PP/7</p>	
	TOTAL FOR PARTICULAR PRELIMINARIES CARRIED TO GRAND SUMMARY	

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	K.SHS
	<p>GENERAL PRELIMINARIES</p> <p>A. PRICING OF ITEMS OF PRELIMINARIES AND PREAMBLES</p> <p>Prices will be inserted against items of Preliminaries in the Contractor's priced Bills of Quantities and Specification.</p> <p>The Contractor shall be deemed to have included in his prices or rates for the various items in the Bills of Quantities or Specification for all costs involved in complying with all the requirements for the proper execution of the whole of the works in the Contract.</p> <p>B. ABBREVIATIONS</p> <p>Throughout these Bills, units of measurement and terms are abbreviated and shall be interpreted as follows:-</p> <p><i>C.M.</i> Shall mean cubic metre</p> <p><i>S.M.</i> Shall mean square metre</p> <p><i>L.M.</i> Shall mean linear metre</p> <p><i>MM</i> Shall mean Millimetre</p> <p><i>Kg.</i> Shall mean Kilogramme</p> <p><i>No.</i> Shall mean Number</p> <p><i>Prs.</i> Shall mean Pairs</p> <p><i>B.S.</i> Shall mean the British Standard Specification Published by the British Standards Institution, 2 Park Street, London W.I., England.</p> <p><i>Ditto</i> Shall mean the whole of the preceding description except as qualified in the description in which it occurs.</p> <p>Carried to collection</p>	

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	<p><i>m.s.</i> Shall mean measured separately.</p> <p><i>a.b.d</i> Shall mean as before described.</p> <p><i>S.d.p.w</i> Shall mean state department for public works</p>	
A.	<p>EXCEPTION TO THE STANDARD METHOD OF MEASUREMENT</p> <p><i>Attendance</i> ; Clause B19(a) of the Standard Method of Measurement is deleted and the following clause is substituted:-</p> <p>Attendance on nominated Sub-Contractors shall be given as an item in each case shall be deemed to include: allowing use of standing scaffolding, mess rooms, sanitary accommodation and welfare facilities; provision of special scaffolding where necessary; providing space for office accommodation and for storage of plant and materials; providing light and water for their work: clearing away rubbish; unloading checking and hoisting: providing electric power and removing and replacing duct covers, pipe casings and the like necessary for the execution and testing of Sub- Contractors' work and being responsible for the accuracy of the same.</p> <p><i>Fix Only:-</i></p> <p>"Fix Only" shall mean take delivery at nearest railway station (Unless otherwise stated), pay all demurrage charges, load and transport to site where necessary, unload, store, unpack, assemble as necessary, distribute to position, hoist and fix only.</p>	
B	<p>FORM OF CONTRACT</p> <p>The Conditions of Contract are also included herein</p> <p><i>General Conditions of Contract</i></p> <p>These are numbered from 1 to 20 as set out in pages 74 to 127 of these tender documents.</p> <p>Particulars of insertions to be made in the Appendix to the Contract Agreement will be found in the Particular Preliminaries part of these Bills of Quantities</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
A	<p>PLANT, TOOLS AND VEHICLES</p> <p>Allow for providing all scaffolding, plant, tools and vehicles required for the works except in so far as may be stated otherwise herein and 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 temporary works of any kind shall be used afterwards in the permanent work.</p>	
B	<p>TRANSPORT.</p> <p>Allow for transport of workmen, materials, etc., to and from the site at such hours and by such routes as may be permitted by the competent authorities.</p>	
C	<p>MATERIALS AND WORKMANSHIP.</p> <p>All materials and workmanship used in the execution of the work shall be of the best quality and description unless otherwise stated. The Contractor shall order all materials to be obtained from overseas immediately after the Contract is signed and shall also order materials to be obtained from local sources as early as necessary to ensure that they are onsite when required for use in the works. The Bills of Quantities shall not be used for the purpose of ordering materials.</p>	
D	<p>SIGN FOR MATERIALS SUPPLIED.</p> <p>The Contractor will be required to sign a receipt for all articles and materials supplied by the PROJECT MANAGER at the time of taking deliver thereof, as having received them in good order and condition, and will thereafter be responsible for any loss or damage and for replacements of any such loss or damage with articles and/or materials which will be supplied by the PROJECT MANAGER at the current market prices including Customs Duty and V.A.T., all at the Contractor's own cost and expense, to the satisfaction of the PROJECT MANAGER</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
E	<p>STORAGE OF MATERIALS</p> <p>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 the satisfaction of the PROJECT MANAGER Nominated Sub-Contractors are to be made liable for the cost of any storage accommodation provided especially for their use.</p>	
A	<p>SAMPLES</p> <p>The Contractor shall furnish at his own cost any samples of materials or workmanship including concrete test cubes required for the works that may be called for by the PROJECT MANAGER for his approval until such samples are approved by the PROJECT MANAGER and the PROJECT MANAGER, may reject any materials or workmanship not in his opinion to be up to approved samples. The PROJECT MANAGER shall arrange for the testing of such materials as he may at his discretion deem desirable, but the testing shall be made at the expense of the Contractor and not at the expense of the PROJECT MANAGER. The Contractor shall pay for the testing in accordance with the current scale of testing charges laid down by the Ministry of Public Works.</p> <p>The procedure for submitting samples of materials for testing and the method of marking for identification shall be as laid down by the PROJECT MANAGER The Contractor shall allow in his tender for such samples and tests except those in connection with nominated sub-contractors' work.</p>	
B	<p>GOVERNMENT ACTS REGARDING WORK, PEOPLE ETC.</p> <p>Allow for complying with all Government Acts, Orders and Regulations in connection with the employment of Labour and other matters related to the execution of the works. In particular the Contractor's attention is drawn to the provisions of the Factory Act 1950 and his tender must include for all costs arising or resulting from compliance with any Act, Order or Regulation relating to Insurances, pensions and holidays for workpeople or so the safety, health and welfare of the workpeople.</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
	<p>The Contractor must make himself fully acquainted with current Acts and Regulations, including Police Regulations regarding the movement, housing, security and control of labour, labour camps , passes for transport, etc. It is most important that the Contractor, before tendering, shall obtain from the relevant Authority the fullest information regarding all such regulations and/or restrictions which may affect the organisation of the works, supply and control of labour, etc., and allow accordingly in his tender. No claim in respect of want of knowledge in this connection will be entertained.</p> <p>A SECURITY OF WORKS ETC.</p> <p>The Contractor shall be entirely responsible for the security of all the works stores, materials, plant, personnel, etc., both his own and sub-contractors' and must provide all necessary watching, lighting and other precautions as necessary to ensure security against theft, loss or damage and the protection of the public.</p> <p>B PUBLIC AND PRIVATE ROADS.</p> <p>Maintain as required throughout the execution of the works and make good any damage to public or private roads arising from or consequent upon the execution of the works to the satisfaction of the local and other competent authority and the PROJECT MANAGER</p> <p>C EXISTING PROPERTY.</p> <p>The Contractor shall take every precaution to avoid damage to all existing property including roads, cables, drains and other services and he will be held responsible for and shall make good all such damage arising from the execution of this contract at his own expense to the satisfaction of the PROJECT MANAGER</p> <p>D VISIT SITE AND EXAMINE DRAWINGS.</p> <p>The Contractor is recommended to examine the drawings and visit the site the location of which is described in the Particular Preliminaries hereof. He shall be deemed to have acquainted himself therewith as to its nature, position, means of access or any other matter which, may affect his tender. No claim arising from his failure to comply with this recommendation will be considered.</p> <p>Carried to collection</p>	

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ITEM	DESCRIPTION	K.SHS
E	<p>ACCESS TO SITE AND TEMPORARY ROADS.</p> <p>Means of access to the Site shall be agreed with the PROJECT MANAGER prior to commencement of the work and Contractor must allow for building any necessary temporary access roads (approximately 70 metres long) for the transport of the 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 to the Site. Upon completion of the works, the Contractor shall remove such temporary access roads; temporary culverts, bridges, etc., and make good and reinstate all works and surfaces disturbed to the satisfaction of the PROJECT MANAGER</p>	
A	<p>AREA TO BE OCCUPIED BY THE CONTRACTOR</p> <p>The area of the site which may be occupied by the Contractor for use of storage and for the purpose of erecting workshops, etc., shall be defined on site by the PROJECT MANAGER</p>	
B	<p>OFFICE ETC. FOR THE PROJECT MANAGER</p> <p>The Contractor shall provide a space and maintain where directed on site a properly ventilated office space for the consultants, having a minimum floor area of 40 Square Metres complete with furniture (Tables, chairs , printer e.t.c) Provision shall be made for artificial lighting and cleaning facilities for the duration of the works.</p>	
C	<p>WATER AND ELECTRICITY SUPPLY FOR THE WORKS</p> <p>The Contractor shall provide at his own risk and cost all necessary water, electric light and power required for use in the works. The Contractor must make his own arrangements for connection to the nearest suitable water main and for metering the water used. He must also provide temporary tanks and meters as required at his own cost and clear away when no longer required and make good on completion to the entire satisfaction of the PROJECT MANAGER . The Contractor shall pay all charges in connection herewith. No guarantee is given or implied that sufficient water will be available from mains and the Contractor must make his own arrangements for augmenting this supply at his own cost. Nominated Sub--contractors are to be made liable for the cost of any water or electric current used and for any installation provided especially for their own use.</p>	
	Carried to collection	

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D	<p>SANITATION OF THE WORKS</p> <p>The Sanitation of the works shall be arranged and maintained by the Contractor to the satisfaction of the Government and/or Local Authorities, Labour Department and the PROJECT MANAGER</p>	
E	<p>SUPERVISION AND WORKING HOURS</p> <p>The works shall be executed under the direction and to the entire satisfaction in all respects of the PROJECT MANAGER who shall at all times during normal working hours have access to the works and to the yards and workshops of the Contractor and sub-Contractors or other places where work is being prepared for the contract.</p>	
A	<p>PROVISIONAL SUMS.</p> <p>The term "Provisional Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7(i) of the Standard Method of Measurement mentioned. Such sums are net and no addition shall be made to them for profit.</p>	
B	<p>PRIME COST (OR P.C.) SUMS.</p> <p>The term "Prime Cost Sum" or "P.C. Sum" wherever used in these Bills of Quantities shall have the meaning stated in Section A item A7 (ii) of the Standard Method of Measurement . Persons or firms nominated by the PROJECT MANAGER to execute work or to provide and fix materials or goods as stated in Condition No. 5 of the Conditions of Contract are described herein as Nominated Sub-Contractors.</p> <p>Persons or firms so nominated to supply goods or materials are described herein as Nominated Suppliers.</p>	
C	<p>PROGRESS CHART.</p> <p>The Contractor shall provide within two weeks of Possession of Site and in agreement with the PROJECT MANAGER a Progress Chart for the whole of the works including the works of Nominated Sub-Contractors ; one copy to be handed to the PROJECT MANAGER and a further copy to be retained on Site. Progress to be recorded and chart to be amended as necessary as the work proceeds.</p> <p>Carried to collection</p>	

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D	<p>ADJUSTMENT OF P.C. SUMS.</p> <p>In the final account all P.C. Sums shall be deducted and the amount properly expended upon the PROJECT MANAGER'S order in respect of each of them added to the Contract sum. The Contractor shall produce to the PROJECT MANAGER such quotations, invoices or bills, properly receipted, as may be necessary to show the actual details of the sums paid by the Contractor. Items of profit upon P.C. Sums shall be adjusted in the final account pro-rata to the amount paid. Items of "attendance" (as previously described) following P.C. Sums shall be adjusted pro-rata to the physical extent of the work executed (not pro-rata to the amount paid) and this shall apply even though the Contractor's priced Bill shows a percentage in the rate column in respect of them.</p> <p>Should the Contractor be permitted to tender and his tender be accepted of any work for which a P.C. Sum is included in these Bill of Quantities profit and attendance will be allowed at the same rate as it would be if the work were executed by a Nominated Sub-Contractor.</p>	
A	<p>ADJUSTMENT OF PROVISIONAL SUMS.</p> <p>In the final account all Provisional Sums shall be deducted and the value of the work properly executed in respect of them upon the PROJECT MANAGER's order added to the Contract Sum. Such work shall be valued as described for Variations in Conditions No. 13 of the Conditions of Contract, but should any part of the work be executed by a Nominated Sub-Contractor, the value of such work or articles for the work to be supplied by a Nominated Supplier, the value of such work or articles shall be treated as a P.C. Sum and profit and attendance comparable to that contained in the priced Bills of Quantities for similar items added.</p> <p>Carried to collection</p>	

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B	<p>NOMINATED SUB-CONTRACTORS</p> <p>When any work is ordered by the PROJECT MANAGER to be executed by nominated sub-contractors, the Contractor shall enter into sub-contracts as described in Condition No. 5 of the Conditions of Contract and shall thereafter be responsible for such sub-contractors in every respect. Unless otherwise described the Contractor is to provide for such Sub-Contractors any or all of the facilities described in these Preliminaries. The Contractor should price for these with the nominated Sub-contract Contractor's work concerned in the P.C. Sums under the description "add for Attendance".</p>	
C	<p>DIRECT CONTRACTS</p> <p>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 the priced Bills of Quantities will be adjusted as described for P.C. Sums and allowed.</p>	
D	<p>ATTENDANCE UPON OTHER TRADESMEN, ETC.</p> <p>The Contractor shall allow for the attendance of trade upon trade and shall afford any tradesmen or other persons employed for the execution of any work not included in this Contract every facility for carrying out their work and also for use of his ordinary scaffolding. The Contractor, however, shall not be required to erect any special scaffolding for them. The Contractor shall perform such cutting away for and making good after the work of such tradesmen or persons as may be ordered by the PROJECT MANAGER and the work will be measured and paid for to the extent executed at rates provided in these Bills.</p> <p>Carried to collection</p>	

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A	<p>INSURANCE</p> <p>The Contractor shall insure as required in Conditions No 18 of the Conditions of Contract. No payment on account of the work executed will be made to the Contractor until he has satisfied the PROJECT MANAGER 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 PROJECT MANAGER 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 PROJECT MANAGER's inspection.</p>	
B	<p>PROVISIONAL WORK</p> <p>All work described as "Provisional" in these Bills of Quantities is subject to remeasurement in order to ascertain the actual quantity executed for which payment will be made. All "Provisional" and other work liable to adjustment under this Contract shall left uncovered for a reasonable time to allow all measurements needed for such adjustment to be taken by the PROJECT MANAGER.</p> <p>Immediately the work is ready for measuring, the Contractor shall give notice to the PROJECT MANAGER. If the Contractor makes default in these respects he shall if the PROJECT MANAGER so directs uncover the work to enable all measurements to be taken and afterwards reinstate at his own expense.</p>	
C	<p>ALTERATIONS TO BILLS, PRICING, ETC.</p> <p>Any unauthorised alteration or qualification made to the text of the Bills of Quantities may cause the Tender to be disqualified and will in any case be ignored. The Contractor shall be deemed to have made allowance in his prices generally to cover any items against which no price has been inserted in the priced Bills of Quantities. All items of measured work shall be priced in detail and the Tenders containing Lump Sums to cover trades or groups of work must be broken down to show the price of each item before they will be accepted.</p> <p>Carried to collection</p>	

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	K.SHS
A	<p>BLASTING OPERATIONS</p> <p>Blasting will only be allowed with the express permission of the PROJECT MANAGER 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 PROJECT MANAGER governing the use and storage of explosives.</p>	
B	<p>MATERIALS ARISING FROM EXCAVATIONS</p> <p>Materials of any kind obtained from the excavations shall be the property of the Government. Unless the PROJECT MANAGER directs otherwise such materials shall be dealt with as provided in the Contract. Such materials shall only be used in the works, in substitution of materials which the Contractor would otherwise have had to supply with the written permission of the PROJECT MANAGER. Should such permission be given, the Contractor shall make due allowance for the value of the materials so used at a price to be agreed.</p>	
C	<p>PROTECTION OF THE WORKS.</p> <p>Provide protection of the whole of the works contained in the Bills of Quantities, including casing , casing up, covering or such other means as may be necessary to avoid damage to the satisfaction of the PROJECT MANAGER and remove such protection when no longer required and make good any damage which may nevertheless have been done at completion free of cost to the Government.</p>	
D	<p>WORKS TO BE DELIVERED UP CLEAN</p> <p>Clean and flush all gutters, rainwater and waste pipes, manholes and drains, wash (except where such treatment might cause damage) and clean all floors, sanitary fittings, glass inside and outside and any other parts of the works and remove all marks, blemishes, stains and defects from joinery, fittings and decorated surfaces generally, polish door furniture and bright parts of metalwork and leave the whole of the buildings watertight, clean, perfect and fit for occupation to the approval of the PROJECT MANAGER</p>	
	Carried to collection	

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	K.SHS
A	<p>GENERAL SPECIFICATION.</p> <p>For the full description of materials and workmanship, method of execution of the work and notes for pricing, the Contractor is referred to the Ministry of Roads and Public Works and Housing General Specification dated 1976 or any subsequent revision thereof which is issued as a separate document, and which shall be allowed in all respects unless it conflicts with the General Preliminaries, Trade Preambles or other items in these Bills of Quantities.</p>	
B	<p>TRAINING LEVY</p> <p>The Contractor's attention is drawn to the legal notice which requires payment by the Contractor of a Training Levy at the rate of 1/4 % of the Contract sum on all contracts of more than KShs. 1,000,000.00 in value. to kenya school of governemnt Baringo</p>	
C	<p>MATERIALS ON SITE</p> <p>All materials for incorporation in the works must be stored on or adjacent to the site before payment is effected unless specifically exempted by the PROJECT MANAGER. This includes the materials of the Main Contractor, Nominated Sub-Contractors and Nominated Suppliers.</p>	
D	<p>HOARDING</p> <p>The Contractor shall enclose the site or part of the works under construction with a hoarding 2400 mm high consisting of iron sheets on 100 x 50 mm timber posts firmly secured at 1800 mm centres with two 75 x 50 mm timber rails. The Contractor is in addition required to take all precautions necessary for the safe custody of the works, materials, plant, public and Employer's property on the site.</p>	
E	<p>CONTRACTOR'S SUPERINTENDENCE/SITE AGENT</p> <p>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 Project Manager and such directions shall be deemed to have been given to the Contractor in accordance with the Conditions of Contract.</p> <p>Carried to collection</p>	

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	K.SHS
	<p><u>COLLECTION</u></p> <p>Brought Forward From Page GP/1</p> <p>Brought Forward From Page GP/2</p> <p>Brought Forward From Page GP/3</p> <p>Brought Forward From Page GP/4</p> <p>Brought Forward From Page GP/5</p> <p>Brought Forward From Page GP/6</p> <p>Brought Forward From Page GP/7</p> <p>Brought Forward From Page GP/8</p> <p>Brought Forward From Page GP/9</p> <p>Brought Forward From Page GP/10</p>	
	TOTAL FOR GENERAL PRELIMINARIES CARRIED TO GRAND SUMMARY	

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BILL NO. 1 GROUND FLOOR</u>				
	<u>ELEMENT NO. 1</u>				
	<u>SUBSTRUCTURE (All Provisional)</u>				
	<u>Excavation and Earthworks</u>				
	<u>Site preparation</u>				
	<u>Clearing site vegetation; grubbing up roots and filling up voids left with selected excavated material</u>				
A	Bushes, shrubs, undergrowth and small trees girth not exceeding 600mm or the like and cart away from site as directed;	2890	SM		
	<u>Top soil stripping</u>				
B	Excavating vegetable soil for preservation, average 150 mm thick	2107	SM		
	<u>Excavations</u>				
	<u>Excavating Surface to reduce level.</u>				
C	Average 300mm deep	2107	SM		
	<u>Excavating Trenches; to receive foundations starting from reduced levels</u>				
D	Not exceeding 1.50m deep	545	CM		
	<u>Excavating pit; to receive column bases starting from reduced levels</u>				
E	Not exceeding 1.50m deep	675	CM		
	<u>Breaking out existing material; extra over all kinds of excavations irrespective of depth</u>				
F	Extra over all types of excavations for excavating in rock of all types	82	CM		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Disposal</u>				
G	Backfill with selected excavated material around foundations; compacting in layers maximum 150mm thick; including double or multi handling of excavated whedre necessary	1290	CM		
H	Surplus excavated material; removing from site mechanically	645	CM		
	<u>Disposal of water</u>				
I	Labour and materials, allow for keeping excavations free from general water by pumping, bailing or any other approved methods	1	ITEM		
	<u>Planking and strutting</u>				
J	Labour and materials, to uphold sides of excavation generally	1	ITEM		
	<u>FILLING</u>				
	<u>Hardcore</u>				
K	300mm thick Hardcore to make up levels, depositing and compacting in layers maximum 150mm thick levelling and grading to appoval	1713	SM		
	<u>Murram</u>				
L	Quarry dust murram blinding 50 mm thick rolled smooth to receive polythene sheeting	1713	SM		
	<u>Anti-termite treatment</u>				
	<u>Applying "Termidor 25 EC" solution or other equal and approved sprayed evenly by an approved specialist strictly in accordance with the manufacturer's instructions</u>				
M	To surface of fill and tops of foundation walls	1713	SM		
Total Carried to collection					

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>CONCRETE WORK</u>				
	<u>Insitu concrete</u>				
	<u>Plain mix 1:3:6 50mm thick blinding to:</u>				
A	Under strip footing	363	SM		
B	Ditto column bases	450	SM		
	<u>Vibrated reinforced concrete Class 25 (1:1.5:3) in:-</u>				
C	Foundation strip	73	CM		
D	Column bases	180	CM		
E	Columns generally	12	CM		
F	Floor Beds; 150 mm thick	1713	SM		
	<u>REINFORCEMENT</u>				
	<u>Bars : high tensile steel; cold worked; B. S. 4461</u>				
	<u>including bends, hooks, tying wire, distance blocks and</u>				
	<u>spacers</u>				
	<u>Foundation strip</u>				
G	8mm diameter; main bars	718	KG		
H	10mm diameter; distribution bars	1310	KG		
	<u>Column bases</u>				
I	16 mm diameter; main bars	8410	KG		
	<u>Sub columns</u>				
J	20mm diameter; main bars	655	KG		
J	16 mm diameter; main bars	2860	KG		
K	8mm diameter; links	540	KG		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Fabric; B.S 4483</u>				
L	Reference A142; mesh 200 x 200 mm weight 2.22 kgs per square meter (Measured net - no allowance made for laps); including bends, tying wire and distance blocks in any location	1713	SM		
	<u>Formwork</u>				
	<u>Sawn softwood formwork to insitu concrete</u>				
M	Vertical and battering sides of columns	168	SM		
N	Vertical sides of column bases	400	SM		
	Vertical Sides of strip footing	242	SM		
O	Edges of floor bed 75 to 150 mm high	230	LM		
	<u>Foundation walling</u>				
	<u>Natural hard machine cut stone; selected and approved; in walling with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:3) mortar in 200mm, course height; reinforcement with and including 25mm wide x 20 gauge hoop iron and column wall ties at every alternate course as described in;</u>				
P	200mm thick foundation walling	974	SM		
	<u>Damp proof membrane</u>				
	<u>1000 gauge Polythene laid with 150mm laps, (No allowance made for laps)</u>				
Q	Horizontal, 1 No. of layer(s) over 300 mm wide	1713	SM		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Plinth finishes</u>				
	<u>Render, cement and sand (1:3) wood floated</u>				
R	12mm thick 2 No. coat work, to concrete or blockwork base (m/s) generally external	69	SM		
	<u>Painting; 3 coats black bituminous paint to</u>				
S	Rendered surfaces external	69	SM		
	Total Carried to collection				
	<u>COLLECTION</u>				
	B/F from page G/F1				
	B/F from page G/F2				
	B/F from page G/F3				
	B/F from page G/F4				
	B/F from above				
	Total for Substructures carried to Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	SUPERSTRUCTURE				
	<u>ELEMENT NO. 2</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>Insitu concrete</u>				
	<u>Vibrated class 25 (1:1.5:3) in:-</u>				
A	Beams	117	CM		
B	Columns	28	CM		
C	Staircase steps	4	CM		
D	150mm thick horizontal staircase landing	20	SM		
E	150mm thick sloping staircase waist	46	SM		
F	150mm thick suspended first floor slab	1552	SM		
	<u>Reinforcement</u>				
	<u>Bars : high tensile steel; cold worked; B. S. 4461</u>				
	<u>including bends, hooks, tying wire, distance blocks and</u>				
	<u>spacers</u>				
	<u>Beams</u>				
G	8mm diameter; links	2717	KG		
H	12mm diameter; links	59	KG		
I	16mm diameter; main bars	9226	KG		
J	20mm diameter; main bars	904	KG		
	<u>Columns</u>				
K	8mm diameter; links	959	KG		
L	16mm diameter; main bars	2435	KG		
M	20mm diameter; main bars	958	KG		
	Total carried to Collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Staircase</u>				
M	10mm diameter, main bars	640	KG		
O	12mm diameter, main bars	955	KG		
	<u>Suspended slab</u>				
D	8mm diameter, main bars	1055	KG		
E	10mm diameter, main bars	10252	KG		
F	12mm diameter, main bars	6693	KG		
	<u>Formwork to insitu concrete</u>				
	<u>Sawn formwork as described to:-</u>				
G	Vertical and battering sides of columns.	392	SM		
H	Sides and soffits of beams.	1376	SM		
I	Horizontal soffits of suspended slab	1552	SM		
J	Soffits of staircase landing	20	SM		
K	Sloping soffits of staircase	46	SM		
L	Edges of suspended slab, 75-150mm girth	242	LM		
M	Sloping staircase string 300mm extreme girth and cut to profile of treads and risers	45	LM		
N	Edges of risers over 75mm but not exceeding 150mm girth	168	LM		
	Total carried to Collection				
	Collection				
	Brought forward from page G/F 6				
	Brought down from above				
	Total RC carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO.3</u>				
	<u>WALLING</u>				
	<u>Waterproofing</u>				
	<u>Horizontal damp proof course ; one layer of 3 - ply bituminous felt or other equal and approved (measured nett - allow for laps)</u>				
A	200mm wide, levelled and bedded in cement mortar (1:3)	550	LM		
	<u>External Walling</u>				
	<u>natural hard machine cut stone; selected and approved; in walling with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:3) mortar in 200mm, course height; reinforcement with and including 25mm wide x 20 gauge hoop iron and column wall ties at every alternate course as described</u>				
B	200mm thick walling	350	SM		
	<u>Internal Walling</u>				
	<u>natural hard machine cut stone; selected and approved; in walling with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:3) mortar in 200mm, course height; reinforcement with and including 25mm wide x 20 gauge hoop iron and column wall ties at every alternate course as described</u>				
C	200mm thick walling	852	SM		
	Total Walling Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4</u>				
	<u>DOORS</u>				
	<u>Joinery</u>				
	<u>Frames: Wrot Hardwood</u>				
A	150 x 50mm rebated frame with three labours	185	LM		
B	Ditto transom	37	LM		
C	45 x 25mm Architraves	185	LM		
D	15 x 15mm quadrant	185	LM		
E	Glazing beads	48	LM		
	<u>Timber doors</u>				
	<u>50mm thick solid core flush door to B.S 459: Part 2; faced both sides with 3mm thick mahogany veneer on and including blockboard infill; lipped on all edges with 10mm thick wrot mahogany: stained</u>				
F	Door overall size 900 x 2400mm high	20	No		
	<u>50mm thick semi-solid core flush door to B.S 459: Part 2; faced both sides with 3mm thick mahogany veneer on and including blockboard infill; lipped on all edges with 10mm thick wrot mahogany: stained</u>				
G	Door overall size 900 x 2100mm high	21	No		
Total carried to Collection					

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Steel doors</u>				
	<u>Purposed made mild steel doors complete with pin type hinges; welded smooth; all necessary ironmongery to approval; one coat red oxide painted; comprising 50 x 50 x 3mm thick RHS external frame fishtail grouted into concrete/block/masonry walling; 50 x 50 x 3mm R.H.S horizontal intermediate frames welded onto and including 50 x 50 x 3 mm RHS surround frame at 300mm centres; 25 x 3 mm thick flat door stopper with and including for 25x25x 2mm SHS beading; door leaf infilled with 2mm thick pressed metal panels profiled to form panels welded; all welding, grounding to a smooth finish including for priming door with one coat red oxide primer; pointed internally and externally with approved mastic sealant</u>				
A	Door overall size 2100 x 2400mm welded complete with 5 - lever mortice lock and 3 No. tower bolts in double leaf; with permanent vent	9	NO		
	Total carried to Collection				
ITEM	DESCRIPTION	QTY	UNIT		
B	Door overall size 1800x2400mm high	4	NO		
C	Door overall size 900x2400mm high	7	NO		
D	4mm thick clear sheet glass and glazing with putty to casement door in panes 0.10m - 0.05m squared	30	SM		
	<u>Ironmongery</u>				
	<u>Supply and fix the following :-</u>				
E	Steel butt hinges 100mm	61.5	PRS		
F	225 x 25 x 3mm thick door fixing cramps one end bent and twice screwed to frame and the other end fanged and built into blockwork	164	NO		
G	Rubber door stops fixed to wall or floor with screws	41	NO		
H	Three lever mortice lock catalogue No. 2237 complete with set lever handle furniture	20	NO		
	Total carried to Collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
I	Two lever mortice lock catalogue No. 2237 complete with set lever handle furniture	21	NO		
J	Door signage	61	NO		
	<u>Painting and decorating</u>				
	<u>One coat aluminium hardwood primer to crown paints or equal and approved</u>				
K	Wood surfaces before fixing not exceeding 100 mm girth internal	185	LM		
L	Ditto 100 - 200 mm girth	185	LM		
	<u>One undercoat, two coats polyurethane clear varnish to crown paints or equal and approved</u>				
M	General wood surfaces externally and internally	166	SM		
N	Wood surfaces 200 - 300mm girth externally	185	LM		
O	Ditto 0 - 100mm girth	185	LM		
	<u>Prepare and apply one coat etching primer two undercoats and one coat oil paint full gloss furnish to metal work</u>				
P	General surfaces of steel doors (both sides measured overall)	156	SM		
	Total Carried to collection				
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION</u>				
	Brought forward from Page 9				
	Brought forward from Page 10				
	Brought forward from above				
	Total Doors carried to Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u>				
	<u>WINDOWS</u>				
	<u>Precast concrete, Normal, Class 20/ 20mm vibrated including formwork, finishing fair face on all exposed surfaces, hoisting and placing in position, bedding and jointing in cement and sand (1:3) mortar</u>				
A	Sills 250 x 75mm thick, once sunk weathered, once throated, reinforced as necessary for handling	221	LM		
	<u>Curtain rods</u>				
B	Aluminium silent gliss' 25mm diameter approved front and rear curtain rod cut to length complete with runners and two end stops per length fixed with chromium plated screws to wall to architect's approval	221	LM		
	<u>Metal work</u>				
	<u>Purpose made units</u>				
	<u>Casement mid hang window with horizontal pivots: standard metal casement sections, permanent ventilators comprising T-bar gauze wire and metal hood to fill width of window, but 100mm deep one coat primer by manufacturer; complete with all necessary ironmongery, steel for glazing with putty, cutting and pinning lugs to concrete or blockwork, fixing to head and sill with screws and plugging.</u>				
C	Overall size 1500×2000 mm high	2	NO		
D	Overall size 6000×800 mm high	8	NO		
E	Overall size 2500×1500 mm high	57	NO		
	<u>Burglar proofing</u>				
F	Welded metal grill burglar proofing in 20mmx 20mmx1.5mm thick SHS bars with one coat primer including welding to metal in approved pattern	100	SM		
	Total Carried to Collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Glazing</u>				
G	4mm thick clear sheet glass and glazing to metal with putty and including setting of edges of glass in wash leather in panes n.e 0.1m ²	322	SM		
	<u>Painting and decorating</u>				
	<u>One undercoat, two coats oil paint gloss finish as crown paints or other equal and approved catalogue</u>				
H	Metal window surfaces generally (measured overall)	644	SM		
I	Metal burglar proofing surfaces generally internally and externally measured overall	100	SM		
	Total Carried to collection				
	<u>COLLECTION</u>				
	Brought forward from Page 10				
	Brought forward from above				
	Total Windows carried to summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 7</u>				
	<u>FINISHES</u>				
	<u>External finishes</u>				
	<u>Render</u>				
	<u>15mm thick cement:sand (1:3) render finished with woodfloat to:</u>				
A	Concrete/masonry surfaces to receive exterior paint work (measured separately)	320	SM		
	<u>Painting and decorating</u>				
	<u>Prepare and apply external quality crown solo plus 3 primer and two finishing coats crown solo permacrete or equal and approved (application strictly to supplier's written instructions) to:</u>				
B	Rendered surfaces externally	320	SM		
	<u>Key pointing</u>				
C	12 X 12mm cement and sand(1:3) mortar horizontal recessed pointing to natural stone walling	227	SM		
	<u>Mazeras finish</u>				
D	Supply and fix approved natural Mazeras stone wall finish to walls, including backing mortar, jointing, pointing, cutting, dressing edges, surface preparation, curing, scaffolding and all necessary accessories complete.	164	SM		
E	Ditto to columns	166	SM		
	<u>Internal finishes</u>				
	<u>Ceiling finishes</u>				
	<u>Plaster: 9mm thick first coat of cement and sand (1:6); 3mm second coat of cement and lime putty (1:10); steel trowelled smooth</u>				
F	12mm thick to concrete soffits of suspended slab	1552	SM		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and decorating</u>				
	<u>Prepare and apply one undercoat; one skimming coat; two finishing coats first quality matt emulsion paint from an approved supplier (approval by the project Architect); application strictly to supplier's written instructions; to:-</u>				
G	Plastered surfaces of suspended slab	1552	SM		
	<u>Wall finishes</u>				
	<u>Plaster: 9mm thick first coat of cement and sand (1:6); 3mm second coat fo cement and lime putty (1:10); steel trowelled smooth</u>				
H	12mm thick to concrete or masonry walls	2093	SM		
	<u>Prepare and apply one undercoat; one skimming coat; two finishing coats of first quality matt emulsion paint from an approved supplier approval by the architect on:</u>				
I	Plastered walls (m.s)	2093	SM		
	<u>Floor finishes</u>				
	<u>Cement : sand (1:3) wood floated screeds, backings, beds;</u>				
J	32mm thick to receive non slip ceramic tiles (measured	1713	SM		
	<u>Ceramic floor tiles</u>				
	<u>Saj ceramic tiles or other equal and approved ceramic tiles to B.S. 1281; local; non-slip friction resistant coloured ceramic tiles to regular or approved B.S.1281 other pattern; jointed and pointed in coloured proprietary grouting to match; only ceramic tiles to walls on prepared bed (m.s) with propriety adhesive; jointed including pvc spacers. joint trims and expansion joint as necessary: all to Architect's approval: to;</u>				
K	Floors generally; 300x300mmx8mm thick	1713	SM		
L	20x100mm high ceramic tile skirting with rounded junction with wall finish and coved junction with floor internal	1350	LM		
Total Carried to collection					

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Staircase finishes</u>				
	<u>Cement : sand (1:3) wood floated screeds, backings, beds etc</u>				
A	20mm thick pavings to landing to receive terrazzo floor finish	20	SM		
B	Ditto treads 300mm wide	160	LM		
C	Ditto on risers 150mm high	165	LM		
D	20mm thick 2 no. coat work terrazzo , approved colour , cement and marble chippings (1:2) washed to concrete and polished to clients satisfaction	20	SM		
E	Ditto treads 300mm wide	160	LM		
F	Ditto on risers 150mm high	165	LM		
G	100x10mm to skirting	64	LM		
	<u>Gauged plaster as described to: -</u>				
H	12mm thick on horizontal soffits of landing	20	SM		
I	Ditto on sloping soffits of stairs	46	SM		
	<u>Painting and decorating</u>				
	<u>Prepare and apply one undercoat; one skimming coat; two finishing coats of first quality matt emulsion paint from an approved supplier approval by the architect on:</u>				
J	Horizontal soffits of landing	20	SM		
K	Sloping soffits of stairs	46	SM		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Railing and balustrading</u>				
	<u>All unstructural steel framework to BS 449, including all necessary welds, bolts, site welds plates and sundry fixings, primer, painting of exposed steel with two coats glossy oil paint, delivered to site and fixing in position</u>				
	<u>Staircase railing</u>				
A	800mm high railing, including 35mm diameter CHS newel posts; newel posts plugged on to concrete/masonry at 800mm centres complete with round bar supports; 12mm diameter round bar ropes fixed to and bar supports at 150mm centres; railing system to include all wall and wall mounting brackets and supports	45	LM		
	<u>Painting and decorating</u>				
	<u>One undercoat, two coats oil paint full gloss finish to crown paints or equal and approved to:</u>				
B	Metal surfaces measured overall	72	SM		
	Total Carried to collection				
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION</u>				
	Brought forward from page G/F 14				
	Brought forward from page G/F 15				
	Brought forward from page G/F 16				
	Brought forward from above				
	Total Finishes carried to Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	Substructures				
	Reinforced Concrete				
	Walling				
	Doors				
	Windows				
	Finishes				
Total Ground Floor Carried to Grand Summary					

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BILL NO. 2 FIRST FLOOR</u>				
	<u>ELEMENT NO. 1</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>Insitu concrete</u>				
	<u>Vibrated class 25(1:1.5:3) in:-</u>				
A	Beams	117	CM		
B	Columns	28	CM		
C	150mm thick suspended first floor slab	256	SM		
	<u>Reinforcement</u>				
	<u>Bars : high tensile steel; cold worked; B. S. 4461 including bends, hooks, tying wire, distance blocks and spacers</u>				
	<u>Beams</u>				
D	8mm diameter; links	2717	KG		
E	16mm diameter; main bars	904	KG		
	<u>Columns</u>				
F	8mm diameter; links	959	KG		
G	16mm diameter; main bars	2435	KG		
	<u>Suspended slab</u>				
H	10mm diameter, main bars	4608	KG		
	Total carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Formwork to insitu concrete</u>				
	<u>Sawn formwork as described to:-</u>				
I	Vertical and battering sides of columns.	392	SM		
J	Sides and soffits of beams.	1376	SM		
K	Horizontal soffits of suspended slab	256	SM		
L	Edges of suspended slab, 75-150mm girth	128	LM		
	Total carried to Collection				
	<u>COLLECTION</u>				
	From page F/F 1				
	From page above				
	Total RC carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 3				
	DOORS				
	<u>Joinery</u>				
	<u>Frames; Wrot Mahogany</u>				
A	150 x 50mm rebated frame with three labours	134	LM		
B	Ditto transom	44	LM		
C	45 x 25mm Architraves	134	LM		
D	15 x 15mm quadrant	134	LM		
E	Glazing beads	18	LM		
	<u>Timber doors</u>				
	<u>50mm thick solid core flush door to B.S</u>				
	<u>459: Part 2; faced both sides with 3mm</u>				
	<u>thick mahogany veneer on and including</u>				
	<u>blockboard infill; lipped on all edges</u>				
	<u>with 10mm thick wrot mahogany; stained</u>				
F	Door overall size 900 x 2400mm high	23	No		
G	Door overall size 2100 x 2400mm high	1	No		
H	Door overall size 1500 x 2400mm high	2	No		
	<u>50mm thick semi-solid core flush door to</u>				
	<u>B.S 459: Part 2; faced both sides with 3mm</u>				
	<u>thick mahogany veneer on and including</u>				
	<u>blockboard infill; lipped on all edges</u>				
	<u>with 10mm thick wrot mahogany; stained</u>				
I	Door overall size 900 x 2100mm high	20	No		
	Total carried to Collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Steel doors</u> <u>complete with pin type hinges; welded smooth; all necessary ironmongery to approval; one coat red oxide painted; comprising 50 x 50 x 3mm thick RHS external frame fishtail grouted into concrete/block/masonry walling; 50 x 50 x 3mm R.H.S horizontal intermediate frames welded onto and including 50 x 50 x 3 mm RHS surround frame at 300mm centres; 25 x 3 mm thick flat door stopper with and including for 25x25x 2mm SHS beading; door leaf infilled with 2mm thick pressed metal panels profiled to form panels welded; all welding, grounding to a smooth finish including for priming door with one coat red oxide primer; pointed internally and</u>				
A	Door overall size 1800 x 2400mm welded complete with 5 - lever mortice lock and 3 No. tower bolts in double leaf; with permanent vent	2	NO		
B	4mm thick clear sheet glass and glazing with putty to casement door in panes 0.10m - 0.05m squared	4	SM		
	<u>Ironmongery</u> <u>Supply and fix the following :-</u>				
C	Steel butt hinges 100mm	73.5	PRS		
D	225 x 25 x 3mm thick door fixing cramps one end bent and twice screwed to frame and the other end fanged and built into blockwork	184	NO		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	
E	Rubber door stops fixed to wall or floor with screws	46	NO		
F	Three lever mortice lock catalogue No. 2237 complete with set lever handle furniture	26	NO		
G	Two lever mortice lock catalogue No. 2237 complete with set lever handle furniture	20	NO		
H	Door signage	46	NO		
	<u>Painting and decorating</u>				
	<u>One coat aluminium hardwood primer to crown paints or equal and approved</u>				
I	Wood surfaces before fixing not exceeding 100	134	LM		
J	Ditto 100 - 200 mm girth	134	LM		
	<u>One undercoat, two coats polyurethane clear varnish to crown paints or equal and approved</u>				
K	General wood surfaces externally and internally	198	SM		
L	Wood surfaces 200 - 300mm girth externally	134	LM		
M	Ditto 0 - 100mm girth	134	LM		
	<u>primer two undercoats and one coat oil paint full gloss furnish to metal work</u>				
N	General surfaces of steel doors (both sides measured)	18	SM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 5</u> <u>WINDOWS</u>				
	<u>Precast concrete, Normal, Class 20/20mm vibrated including formwork, finishing fair face on all exposed surfaces, hoisting and placing in position, bedding and jointing in cement and sand (1:3) mortar</u>				
A	Sills 250 x 75mm thick, once sunk weathered, once throated, reinforced as necessary for	256	LM		
	<u>Curtain rods</u>				
B	Aluminium silent gliss' 25mm diameter approved front and rear curtain rod cut to length complete with runners and two end stops per length fixed with chromium plated screws to wall to architect's approval	256	LM		
	<u>Metal work</u>				
	<u>Purpose made units</u>				
	<u>Casement mid hang window with horizontal pivots; standard metal casement sections, permanent ventilators comprising T-bar gauze wire and metal hood to fill width of window, but 100mm deep one coat primer by manufacturer; complete with all necessary ironmongery, steel for glazing with putty, cutting and pinning lugs to concrete or blockwork, fixing to head and sill with screws and plugging.</u>				
C	Overall size 6000×800 mm high	8	NO		
D	Overall size 2500×1500 mm high	80	NO		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
E	Overall size 2500×800 mm high	1	NO		
F	Overall size 1800×1500 mm high	4	NO		
	<u>Burglar proofing</u>				
G	Welded metal grill burglar proofing in 20mmx 20mmx1.5mm thick SHS bars with one coat primer including welding to metal in approved pattern	98	SM		
	<u>Glazing</u>				
H	4mm thick clear sheet glass and glazing to metal with putty and including setting of edges of glass in wash leather in panes n.e 0.1m ²	352	SM		
	<u>Painting and decorating</u>				
	<u>One undercoat, two coats oil paint gloss finish as crown paints or other equal and approved catalogue</u>				
I	Metal window surfaces generally (measured overall)	704	SM		
J	Metal burglar proofing surfaces generally internally and externally measured overall	196	SM		
	Total Carried to collection				
	<u>COLLECTION</u>				
	Brought forward from Page F/F 9				
	Brought forward from above				
	Total Windows carried to summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 7</u>				
	<u>FINISHES</u>				
	<u>External finishes</u>				
	<u>Render</u>				
	<u>15mm thick cement:sand (1:3) render finished with woodfloat to:</u>				
A	Concrete/masonry surfaces to receive exterior paint work (measured separately)	446	SM		
	<u>Painting and decorating</u>				
	<u>Prepare and apply external quality crown solo plus 3 primer and two finishing coats crown solo permacrete or equal and approved (application strictly to supplier's written instructions) to:</u>				
C	Rendered surfaces externally	446	SM		
	<u>Key pointing</u>				
E	12 X 12mm cement and sand(1:3) mortar horizontal recessed pointing to natural stone walling	332	SM		
	<u>Mazeras finish</u>				
F	Supply and fix approved natural Mazeras stone wall finish to walls, including backing mortar, jointing, pointing, cutting, dressing edges, surface preparation, curing, scaffolding and all necessary accessories complete.	377	SM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Internal finishes</u>				
	<u>Ceiling finishes</u>				
G	12mm thick softboard "celotex" sheet fixing with nail heads punched and puttied, butt vee joints set to pattern, on and including 75x50mm main branderling at 1200mm centres both ways and 50x50mm secondary branderling at 600mm centres bothways	1344	SM		
H	Extra over ceiling for trap door size 600 x450mm complete with framing.	10	NO		
	<u>Cypress prime grade, pressure</u>				
I	50x 75mm wide moulded cornice plugged to wall and nailed to ceiling finish.	1222	LM		
	<u>Painting and decorating</u>				
	<u>Prepare and apply one undercoat; one skimming coat; two finishing coats first quality matt emulsion paint from an approved supplier (approval by the project Architect); application strictly to supplier's written instructions; to:-</u>				
J	Celotex ceiling surfaces	1344	SM		
K	Timber surfaces; girth not exceeding 100mm	1222	LM		
	<u>Wall finishes</u>				
	<u>and sand (1:6); 3mm second coat fo cement and lime putty (1:10); steel trowelled smooth</u>				
L	12mm thick to concrete or masonry walls	1792	SM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and decorating</u>				
	<u>Prepare and apply one undercoat; one skimming coat; two finishing coats of first quality matt emulsion paint from an approved supplier approval by the architect on:</u>				
M	Plastered walls (m.s)	1792	SM		
	<u>Floor finishes</u>				
	<u>Cement : sand (1:3) wood floated screeds, backings, beds;</u>				
N	32mm thick to receive non slip ceramic tiles	1552	SM		
	<u>Ceramic floor tiles</u>				
	<u>Saj ceramic tiles or other equal and approved ceramic tiles to B.S. 1281; local; non-slip friction resistant coloured ceramic tiles to regular or approved B.S.1281 other pattern; jointed and pointed in coloured proprietary grouting to match; only ceramic tiles to walls on prepared bed (m.s) with propriety adhesive; jointed including pvc spacers, joint trims and expansion joint as necessary: all to Architect's approval: to;</u>				
A	Floors generally; 300x300mmx8mm thick	1552	SM		
B	20x100mm high ceramic tile skirting with rounded junction with wall finish and coved junction with floor internal	1222	LM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Railing</u>				
	<u>All unstructural steel framework to BS 449, including all necessary welds, bolts, site welds plates and sundry fixings, primer, painting of exposed steel with two coats glossy oil paint, delivered to site and fixing in position</u>				
	<u>Railing</u>				
C	900mm high railing, including 35mm diameter CHS newel posts; newel posts plugged on to concrete/masonry at 800mm centres complete with round bar supports; 12mm diameter round bar ropes fixed to and bar supports at 150mm centres; railing system to include all wall and wall mounting brackets and supports	160	LM		
	<u>Painting and decorating</u>				
	<u>gloss finish to crown paints or equal and approved to;</u>				
D	Metal surfaces measured overall	288	SM		
	Totals carried to collection				
	<u>COLLECTION</u>				
	Brought forward from page F/F 10				
	Brought forward from page F/F 11				
	Brought forward from page F/F 12				
	From above				
	Total Finishes carried to Summary				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	Reinforced Concrete				
	Walling				
	Doors				
	Windows				
	Finishes				
Total First Floor Carried to Grand Summary					

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>BILL NO. 3 SECOND FLOOR</u>				
	<u>ELEMENT NO. 1</u>				
	<u>REINFORCED CONCRETE FRAME</u>				
	<u>Insitu concrete</u>				
	<u>Vibrated class 25(1:1.5:3) in:-</u>				
A	Beams	117	CM		
B	Columns	28	CM		
C	150mm thick suspended first floor slab	256	SM		
D	Gutters	54	CM		
	<u>Reinforcement</u>				
	<u>Bars : high tensile steel; cold worked; B. S. 4461</u>				
	<u>including bends, hooks, tying wire, distance blocks and</u>				
	<u>spacers</u>				
	<u>Beams</u>				
E	8mm diameter; links	2717	KG		
F	16mm diameter; main bars	904	KG		
	<u>Columns</u>				
G	8mm diameter; links	959	KG		
H	16mm diameter; main bars	2435	KG		
	<u>Suspended slab</u>				
I	10mm diameter, main bars	4608	KG		
	<u>Gutters</u>				
J	8mm diameter; links	2301	KG		
	Total carried to Collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
K	12mm diameter; main bars <u>Formwork to insitu concrete</u> <u>Sawn formwork as described to:-</u>	4337	KG		
L	Vertical and battering sides of columns.	392	SM		
M	Sides and soffits of beams.	1376	SM		
N	Horizontal soffits of suspended slab	256	SM		
O	Edges of suspended slab, 75-150mm girth	128	LM		
P	Vertical sides and soffits of concrete gutters	775	SM		
	Total carried to Collection				
	<u>COLLECTION</u> From page F/F 1 From page above				
	Total RC carried to Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO.2				
	WALLING				
	<u>External Walling</u>				
	<u>in walling with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:3) mortar in 200mm, course height; reinforcement with and including 25mm wide x 20 gauge hoop iron and column wall ties at every alternate course as described in;</u>				
A	200mm thick walling	432	SM		
B	200mm thick gable walls	126	SM		
C	Raking cutting to 200mm thick wall	70	LM		
D	Eaves walling	242	LM		
	200mm thick Parapet walling	175	SM		
	<u>Internal Walling</u>				
	<u>in walling with a crushing strength of 7.5 N/mm²; walling bedded and jointed in cement and sand (1:3) mortar in 200mm, course height; reinforcement with and including 25mm wide x 20 gauge hoop iron and column wall ties at every alternate course as described in;</u>				
E	200mm thick walling	682	SM		
	<u>Precast concrete class 20 (12mm aggregate), including formwork, finishing fair face on all exposed surfaces, hoisting and placing in position, bedding and jointing in cement and sand (1:3) mortar</u>				
F	350 x 50mm wall coping; throated	68	LM		
	Total Walling Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 3</u>				
	<u>ROOF AND RAIN WATER GOODS</u>				
	<u>Roof covering</u>				
	<u>Gauge 28 prepainted resin coat IT5 roofing sheets; colour as selected by Architect; fixed with self-drilling fasteners to steel purlins; allow foam fillers to open eaves and ridge</u>				
A	Roof covering not exceeding 30 degrees from the horizontal	1990	SM		
B	Ridge cap in matching materials	165	LM		
C	600mm wide ditto valley flashing four times bent	33	LM		
	<u>Structural steel frame work with british standards 449 complete with cleats , welded and bolted connections , plates and sundry fixing primed with red lead graphite primer before delivery hoisting and fixing at a hieght not exceeding 4m above ground level as shown in engineers drawing</u>				
D	75x50x3mm RHS Rafters	3370	KG		
E	50x50x3mm SHS strutt and ties	4031	KG		
F	101.6x50.8x2mm Z Purlins	3899	KG		
G	75x50x3mm RHS Tie beams	3082	KG		
H	75x50x3mm RHS King post	662	KG		
	Total carried to Collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Rain water disposal</u>				
	<u>Rainwater pipework</u>				
I	100mm diameter pipes complete with connections in the running lengths, fixing with PVC holders/bats at 1000mm centers to backgrounds requiring plugging on walls	168	LM		
J	Extra over pipework for shoes	28	NO		
K	Ditto swanneck	28	NO		
	<u>Waterproofing works</u>				
	<u>Screed</u>				
	Cement : sand (1:3) wood floated screeds, backings, beds;				
L	32mm thick to receive non slip ceramic tiles (measured separately)	282	SM		
M	Apply 30mm thick APP waterproofing membrane to floor screed	282	SM		
	Total carried to Collection				
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION</u>				
	From page F/F 4				
	From page above				
	Total Roofing Carried to Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>ELEMENT NO. 4</u>				
	<u>DOORS</u>				
	<u>Joinery</u>				
	<u>Frames; Wrot Mahogany</u>				
A	150 x 50mm rebated frame with three labours	134	LM		
B	Ditto transom	44	LM		
C	45 x 25mm Architraves	134	LM		
D	15 x 15mm quadrant	134	LM		
E	Glazing beads	18	LM		
	<u>Timber doors</u>				
	<u>50mm thick solid core flush door to B.S 459: Part 2; faced both sides with 3mm thick mahogany veneer on and including blockboard infill; lipped on all edges with 10mm thick wrot mahogany: stained</u>				
F	Door overall size 900 x 2400mm high	23	No		
G	Door overall size 2100 x 2400mm high	1	No		
H	Door overall size 1500 x 2400mm high	2	No		
	<u>50mm thick semi-solid core flush door to B.S 459: Part 2; faced both sides with 3mm thick mahogany veneer on and including blockboard infill; lipped on all edges with 10mm thick wrot mahogany: stained</u>				
I	Door overall size 900 x 2100mm high	20	No		
	Total carried to Collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Steel doors</u>				
	<u>hinges; welded smooth; all necessary ironmongery to approval; one coat red oxide painted; comprising 50 x 50 x 3mm thick RHS external frame fishtail grouted into concrete/block/masonry walling; 50 x 50 x 3mm R.H.S horizontal intermediate frames welded onto and including 50 x 50 x 3 mm RHS surround frame at 300mm centres; 25 x 3 mm thick flat door stopper with and including for 25x25x 2mm SHS beading; door leaf infilled with 2mm thick pressed metal panels profiled to form panels welded; all welding, grounding to a smooth finish including for priming door with one coat red oxide primer; pointed internally and externally with</u>				
A	Door overall size 1800 x 2400mm welded complete with 5 - lever mortice lock and 3 No. tower bolts in double leaf; with permanent vent	2	NO		
B	4mm thick clear sheet glass and glazing with putty to casement door in panes 0.10m - 0.05m squared	4	SM		
	<u>Ironmongery</u>				
	<u>Supply and fix the following :-</u>				
C	Steel butt hinges 100mm	73.5	PRS		
D	225 x 25 x 3mm thick door fixing cramps one end bent and twice screwed to frame and the other end fanged and built into blockwork	184	NO		
E	Rubber door stops fixed to wall or floor with screws	46	NO		
F	Three lever mortice lock catalogue No. 2237 complete with set lever handle furniture	26	NO		
G	Two lever mortice lock catalogue No. 2237 complete with set lever handle furniture	20	NO		
H	Door signage	46	NO		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Painting and decorating</u>				
	<u>One coat aluminium hardwood primer to crown paints or equal and approved</u>				
I	Wood surfaces before fixing not exceeding 100 mm girth internal	134	LM		
J	Ditto 100 - 200 mm girth	134	LM		
	<u>One undercoat, two coats polyurethane clear varnish to crown paints or equal and approved</u>				
K	General wood surfaces externally and internally	198	SM		
L	Wood surfaces 200 - 300mm girth externally	134	LM		
M	Ditto 0 - 100mm girth	134	LM		
	<u>undercoats and one coat oil paint full gloss furnish to metal work</u>				
N	General surfaces of steel doors (both sides measured overall)	18	SM		
Total Carried to collection					
ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION</u>				
	Brought forward from Page F/F 6				
	Brought forward from Page F/F 7				
	Brought forward from above				
Total Doors carried to Summary					

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 5				
	WINDOWS				
	<u>Precast concrete, Normal, Class 20/ 20mm vibrated including formwork, finishing fair face on all exposed surfaces, hoisting and placing in position, bedding and jointing in cement and sand (1:3) mortar</u>				
A	Sills 250 x 75mm thick, once sunk weathered, once throated, reinforced as necessary for handling	256	LM		
	<u>Curtain rods</u>				
B	Aluminium silent gliss' 25mm diameter approved front and rear curtain rod cut to length complete with runners and two end stops per length fixed with chromium plated screws to wall to architect's approval	256	LM		
	<u>Metal work</u>				
	<u>Purpose made units</u>				
	<u>Casement mid hang window with horizontal pivots; standard metal casement sections, permanent ventilators comprising T-bar gauze wire and metal hood to fill width of window, but 100mm deep one coat primer by manufacturer; complete with all necessary ironmongery, steel for glazing with putty, cutting and pinning lugs to concrete or blockwork, fixing to head and sill with screws and plugging.</u>				
C	Overall size 6000×800 mm high	8	NO		
D	Overall size 2500×1500 mm high	80	NO		
E	Overall size 2500×800 mm high	1	NO		
F	Overall size 1800×1500 mm high	4	NO		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Burglar proofing</u>				
G	Welded metal grill burglar proofing in 20mmx 20mmx1.5mm thick SHS bars with one coat primer including welding to metal in approved pattern	98	SM		
	<u>Glazing</u>				
H	4mm thick clear sheet glass and glazing to metal with putty and including setting of edges of glass in wash leather in panes n.e 0.1m ²	352	SM		
	<u>Painting and decorating</u>				
	<u>One undercoat, two coats oil paint gloss finish as crown paints or other equal and approved catalogue</u>				
I	Metal window surfaces generally (measured overall)	704	SM		
J	Metal burglar proofing surfaces generally internally and externally measured overall	196	SM		
	Total Carried to collection				
	<u>COLLECTION</u>				
	Brought forward from Page F/F 9				
	Brought forward from above				
	Total Windows carried to summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	ELEMENT NO. 7				
	<u>FINISHES</u>				
	<u>External finishes</u>				
	<u>Render</u>				
	<u>15mm thick cement:sand (1:3) render finished with woodfloat to:</u>				
A	Concrete/masonry surfaces to receive exterior paint work (measured separately)	446	SM		
B	Ditto to concrete gutters	487	SM		
	<u>Painting and decorating</u>				
	<u>Prepare and apply external quality crown solo plus 3 primer and two finishing coats crown solo permacrete or equal and approved (application strictly to supplier's written instructions) to:</u>				
C	Rendered surfaces externally	446	SM		
D	Ditto to concrete gutters	487	SM		
	<u>Key pointing</u>				
E	12 X 12mm cement and sand(1:3) mortar horizontal recessed pointing to natural stone walling	332	SM		
	<u>Mazeras finish</u>				
F	Supply and fix approved natural Mazeras stone wall finish to walls, including backing mortar, jointing, pointing, cutting, dressing edges, surface preparation, curing, scaffolding and all necessary accessories complete.	377	SM		
	<u>Internal finishes</u>				
	<u>Ceiling finishes</u>				
G	12mm thick softboard "celotex" sheet fixing with nail heads punched and puttied, butt vee joints set to pattern, on and including 75x50mm main bandering at 1200mm centres both ways and 50x50mm secondary bandering at 600mm centres bothways	1344	SM		
H	Extra over ceiling for trap door size 600 x450mm complete with framing.	10	NO		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Cypress prime grade, pressure impregnated</u>				
I	50x 75mm wide moulded cornice plugged to wall and nailed to ceiling finish.	1222	LM		
	<u>Painting and decorating</u>				
	<u>Prepare and apply one undercoat; one skimming coat; two finishing coats first quality matt emulsion paint from an approved supplier (approval by the project Architect); application strictly to supplier's written instructions; to:-</u>				
J	Celotex ceiling surfaces	1344	SM		
K	Timber surfaces; girth not exceeding 100mm	1222	LM		
	<u>Wall finishes</u>				
	<u>Plaster; 9mm thick first coat of cement and sand (1:6); 3mm second coat fo cement and lime putty (1:10); steel trowelled smooth</u>				
L	12mm thick to concrete or masonry walls	1792	SM		
	<u>Painting and decorating</u>				
	<u>Prepare and apply one undercoat; one skimming coat; two finishing coats of first quality matt emulsion paint from an approved supplier approval by the architect on:</u>				
M	Plastered walls (m.s)	1792	SM		
	<u>Floor finishes</u>				
	<u>Cement : sand (1:3) wood floated screeds, backings, beds;</u>				
N	32mm thick to receive non slip ceramic tiles (measured separately)	1552	SM		
Total Carried to collection					

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>Ceramic floor tiles</u>				
	<u>Saj ceramic tiles or other equal and approved ceramic tiles to B.S. 1281; local; non-slip friction resistant coloured ceramic tiles to regular or approved B.S.1281 other pattern; jointed and pointed in coloured proprietary grouting to match; only ceramic tiles to walls on prepared bed (m.s) with propriety adhesive; jointed including pvc spacers, joint trims and expansion joint as necessary: all to Architect's approval: to;</u>				
A	Floors generally; 300x300mmx8mm thick	1552	SM		
B	20x100mm high ceramic tile skirting with rounded junction with wall finish and coved junction with floor internal	1222	LM		
	<u>Railing</u>				
	<u>All unstructural steel framework to BS 449, including all necessary welds, bolts, site welds plates and sundry fixings, primer, painting of exposed steel with two coats glossy oil paint, delivered to site and fixing in position</u>				
	<u>Railing</u>				
C	900mm high railing, including 35mm diameter CHS newel posts; newel posts plugged on to concrete/masonry at 800mm centres complete with round bar supports; 12mm diameter round bar ropes fixed to and bar supports at 150mm centres; railing system to include all wall and wall mounting brackets and supports	160	LM		
	<u>Painting and decorating</u>				
	<u>One undercoat, two coats oil paint full gloss finish to crown paints or equal and approved to;</u>				
D	Metal surfaces measured overall	288	SM		
	Total Carried to collection				

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>COLLECTION</u>				
	Brought forward from page F/F 11				
	Brought forward from page F/F 12				
	From above				
	Total Finishes carried to Summary				0.00

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>SUMMARY</u>				
	Reinforced Concrete				
	Walling				
	Roof Construction				
	Doors				
	Windows				
	Finishes				
	Total Second Floor Carried to Grand Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	BILL NO.3 EXTERNAL WORKS				
	SEPTIC TANK				
	<u>The following in 1 No septic tank of 400 persons and 90,000 litres capacity</u>				
	<u>Earth works</u>				
A	Clear site of grass, bushes etc and cart away or burn arisings	SM	128		
B	Excavate for pit commencing from existing ground level n.e 1.50 m deep	CM	192		
C	Ditto 1.50 to 3.00 m ditto	CM	191		
D	Ditto 3.00 to 4.50 m ditto	CM	86		
E	Extra over for excavation in rock class I,2 &3	CM	70		
F	Cart away surplus excavated materials from site	CM	21		
G	Return fill and ram selected excavated materials	CM	258		
	<u>Plain concrete class 15/20 mix (1:3:6) in:-</u>				
H	50mm thick Blinding under base slab	SM	73		
	<u>Vibrated reinforced concrete 25/20 mix (1:1.5:3) in:-</u>				
A	350 mm thick bed	SM	4		
B	250 mm thick ditto	SM	69		
C	250 mm thick walls	SM	101		
	Totals carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
D	200 mm thick ditto	SM	3		
E	150 mm thick scum baffle ditto	SM	11		
F	200 mm thick vertical division	SM	11		
G	200 mm thick cover slab	SM	76		
	<u>Reinforcement:</u>				
H	8 mm diameter mild steel bars reinforcement to B.S 4449	KG	10		
I	10 mm diameter high tensile square twisted reinforcement bars to B.S 4461	KG	228		
J	12 mm ditto	KG	2,655		
K	16 mm ditto	KG	3,781		
L	BRC Ref. 66 fabric mesh reinforcement	SM	11		
	<u>Sawn form work to:-</u>				
A	Vertical sides of walls	SM	252		
B	Soffittes of suspended slab	SM	65		
C	Edge of ground slab 300 - 375 mm high	LM	7		
D	Edge of ground slab 225 - 300 mm high	LM	36		
E	Ditto 75 - 150 mm ditto	LM	20		
F	Ditto suspended slab 150 - 225 mm ditto	LM	42		
G	Soffittes of baffle walls 75 - 150 mm girth	LM	14		
H	Boxing size 600 x 450 mm to form opening for man hole cover	No.	4		
	Totals carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
I	12 mm thick sulphate - resisting water proof render to Concrete Work	SM	222		
J	Supply and fix medium duty, cast iron manhole cover size 600x450mm complete with frame including greasing before fixing	No.	4		
	<u>Sundries</u>				
K	Form or leave slot size 300 x 200 mm in 200 mm thick concrete wall	No.	3		
L	Ditto in 250 mm thick concrete wall for large pipe	No.	1		
M	Ditto in 200 mm ditto	No.	2		
N	Supply and fix 200 mm diameter UPVC sleeve in 250 mm thick concrete wall	No.	2		
O	Ditto in 200 mm thick concrete wall	No.	2		
	Totals carried to collection				
	COLLECTION				
A	B/F From Page 1				
B	B/F From Page 2				
C	B/F From Above				
	Totals for Septic Tank Carried to Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SOAKPITS</u>				
	<u>Construct the following in 1no soak pit overall size 1200mm diameter x 6000mm deep</u>				
	<u>Site preparation</u>				
	<u>Clearing site vegetation; grubbing up roots and filling up voids left with selected excavated material</u>				
A	Bushes, shrubs, undergrowth and small trees girth not exceeding 600mm or the like and cart away from site as directed;	2	SM		
	<u>Excavations</u>				
	<u>To include; trimming sides and bottoms to approval;</u>				
	<u>Excavating Trenches; to receive foundations starting from ground levels</u>				
B	Not exceeding 1.50m deep	4	CM		
	<u>Bulk excavations; starting from stripped levels</u>				
C	Not exceeding 1.50metres deep	3	CM		
D	Ditto exceeding 1.50metres but not exceeding 3.00metres deep	3	CM		
E	Ditto exceeding 3.00m but not exceeding 4.50metres deep	3	CM		
F	Ditto exceeding 4.50metres but not exceeding 6.00metres deep	3	CM		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>Breaking out existing material; extra over all kinds of excavations irrespective of depth</u>				
G	Extra over all types of excavations for excavating in rock of all types	3	CM		
	<u>Disposal</u>				
H	Backfill with selected excavated material around foundations; compacting in layers maximum 150mm thick; including double or multi handling of excavated whedre necessary	2	CM		
I	Surplus excavated material; removing from site mechanically	14	CM		
	<u>Filling</u>				
J	Fill soak pit with imported stone size 200mm; compacting in layers maximum 150mm thick; including double or multi handling of excavated material where necessary	12	CM		
	<u>Concrete works</u>				
	<u>Insitu concrete</u>				
	<u>Plain concrete (1:4:8) as described in:-</u>				
K	50mm thick blinding to receive strip foundation	3	SM		
	<u>Vibrated reinforced concrete (1:2:4) class 20/20mm in:</u>				
L	Suspended floor Beds; 150 mm thick	2	SM		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>REINFORCEMENT</u>				
	<u>Bars : high tensile steel; cold worked; B. S. 4461 including bends, hooks, tying wire, distance blocks and spacers</u>				
A	10mm diameter bars; both ways	27	KG		
	<u>Foundation walling</u>				
	<u>Rough chisel dressed natural stone walling bedded and jointed in cement and sand (1:3) mortar and reinforced with and including 20swg x 25mm wide hoop iron in every alternate course</u>				
B	225mm thick foundation walling	6	SM		
	<u>Formwork</u>				
	<u>Sawn softwood formwork to insitu concrete</u>				
C	Soffits of suspended cover slab	2	SM		
D	Curved edges of floor bed 75 to 150 mm high to various radii	5	LM		
	<u>Wall Finishes</u>				
	<u>15mm thick sulphate resisting water proof cement and sand 1:3 plaster trowel smooth to:</u>				
E	Walls; internally	3	SM		
	Total Carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
F	Cut or leave holes through 200mm stone walling for large pipes and make good	1	NO		
	Totals carried to collection COLLECTION				
	B/F From page 4				
	B/F From page 5				
	B/F From page 6				
	B/F From Above				
	Totals for Soak Pit carried to Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>CABRO WORKS</u>				
	<u>ELEMENT NO. 1</u>				
	<u>Excavation Works</u>				
	To include; trimming sides and bottoms to approval;				
	<u>Excavating Surface to reduce level.</u>				
A	Average 300mm deep from existing ground level	1500	SM		
	<u>Disposal</u>				
B	Surplus excavated material; removing from site mechanically	450	CM		
	<u>Surface Treatment</u>				
	<u>Grading and Compaction</u>				
C	Grade and compact to falls , crossfalls and slope , top of backfill (m.s) standard compaction to 95% M.D.D AASHTO T180.	1500	SM		
	<u>Murram</u>				
D	Approved murram filling or other equally and approved filling in making up levels , spread , levelled watered and well rammed and consolidated in 150mm layers to 100% AASHTO T180 Compaction.	1500	SM		
	<u>FILLING</u>				
	<u>Hardcore</u>				
E	300mm thick hard packed stones in 150mm layers . levelled and graded to falls , crossfalls and slopes: blind with murram layer , heavy compaction by rolling to 98% MDD AASHTO :	1500	SM		
	<u>Herbal Treatment</u>				
F	Teilvar W or other equally and approved weed killer under paved pathways.	1500	SM		
	Totals carried to collection				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
G	<u>Sand Blinding</u> 50mm (Average) sand bed blinding spread and well compacted to falls and crossfalls and cambers finished to receive precast concrete block paving (m.s)	1500	SM		
H	<u>Paving</u> <u>Concrete block Paving (as manufactured by Bamburi special product ltd of equally and approved.</u> 80mm thick heavy duty 49N/mm ² comprehensive strength precast concrete block paving in approved pattern laid on sand bed (m.s) to falls , crossfalls and cambers including all necessary compaction. <u>Precast concrete units : grade 25/20mm vibrated reinforced : BS 340 excavations and disposal including all necessary formwork , finishing fair on all exposed surfaces and jointing and pointing in cement and sand (1:3)mortar</u>	1500	SM		
I	125x250mm splayed kerb laid on and including insitu 325x225mm thick concrete class 15/20 bed and 100x200mm haunched back.	160	LM		
K	<u>Painting and decoration</u> Prepare and apply three coats of crown paints solo or other equally and approved yellow road enamel paint 100mm wide on surfaces of kerbs , girth 200-300mm .	160	LM		
Totals carried to collection					

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION COLLECTION	UNIT	QTY	RATE	AMOUNT
	BF From Page 1				
	BF From Page 2				
	Totals for Cabro Works Carried to Summary				

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

ITEM	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	<u>PRIME COST AND PROVISIONAL SUMS</u>				
	<u>The following sums are to be measured on completion and priced in accordance with the rates contained in this Bill of Quantities or prorata thereto or deducted in whole if not required</u>				
	<u>Prime cost sums</u>				
	<u>Electrical works</u>				
A	Provide a prime cost sum of Kshs Seven Million (7000,000.00) only for electrical installation works				7,000,000.00
B	Provide a prime cost sum of Kshs, Three Million Five Hundred Thousand (3500,000.00) only for mechanical works, sanitary fittings and connection to the septic tank and soakpit				3,500,000.00
	<u>Provisional sums</u>				
C	Allow a provisional sum of Ksh. Two Hundred and Fifty Thousand (250,000.00) for the supply of 4no. 5000litres water tanks				250,000.00
D	Provide a provisional sum of Kshs Ten Million (10,000,000.00) only for contingencies to be expended in consultation with the Project Manager and the Client				10,000,000.00
B	Allow a provisional sum of One Million Five Hundred Thousand (1500,000.00) for Project Management Committee supervision from the client .				1,500,000.00
C	Allow a provisional Sum of Two Million Five Hundred Thousand (2,500,000.00) For Project Management Team and Engineers Supervision .				2,500,000.00
F	Allow a provisional sum of Ksh. Eight Hundred Thousand (Ksh. 800,000.00) for minor landscaping works.				800,000.00
G	Allow a sum of Kenya Shillings Eight Hundred Thousand (KShs 800,000/-) only for Clerk of Works Expenses to be expended at the discretion of the Project Manager				800,000.00
Total Prime Cost and Provisional Sums carried to Grand Summary					26,350,000.00

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TEACHERS TRAINING COLLEGE

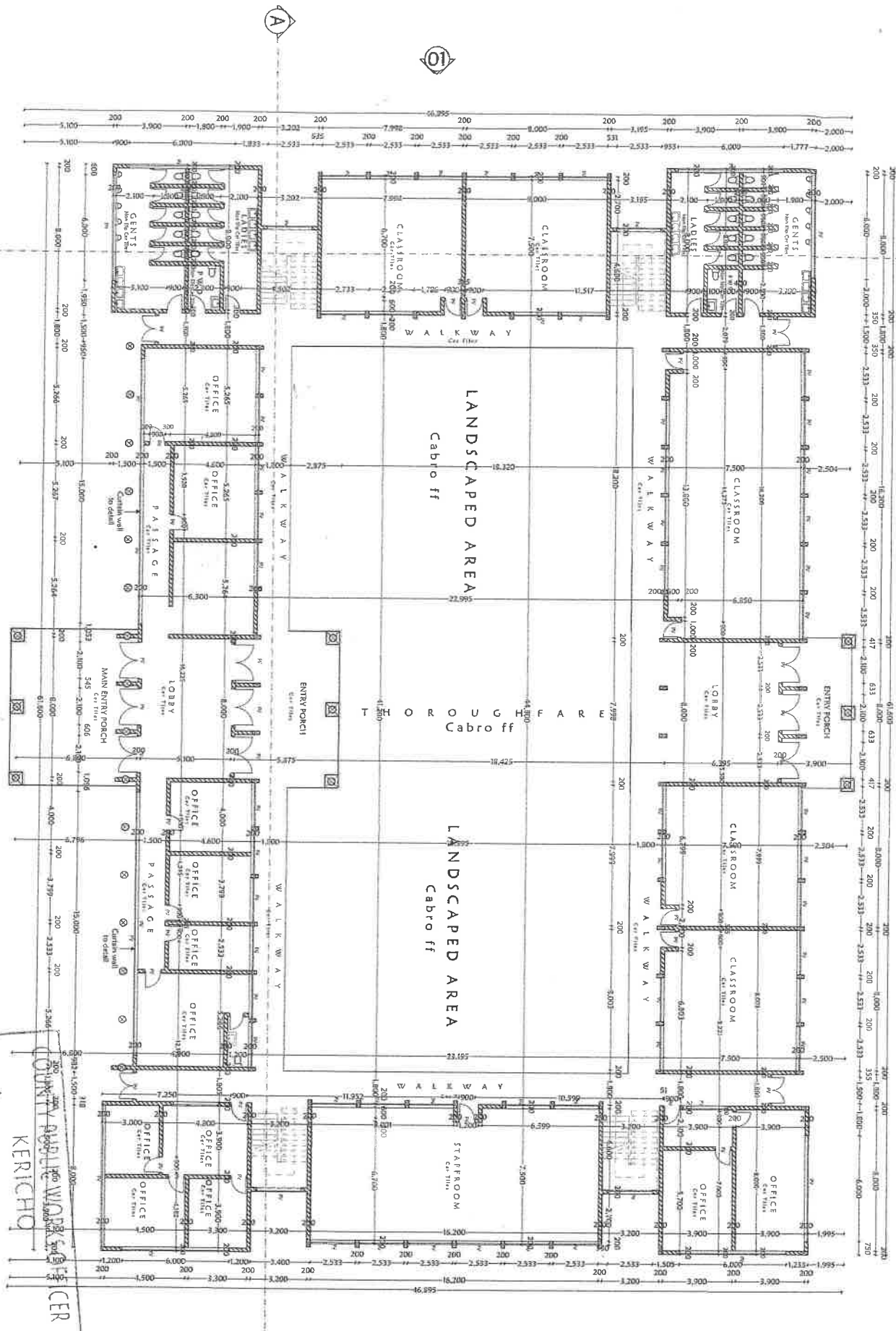
GRAND SUMMARY				
ITEM	DESCRIPTION	Page No.	For Official use only	For Tenderers use only
A	Particular Preliminaries	PP/8		
B	General Preliminaries	GP/21		
C	Bill No. 1 Ground Floor	G/F 16		
D	Bill No. 2 First Floor	F/F 14		
E	Bill No. 3 Second Floor	F/F 15		
F	Bill No. 3 External Works	E/11		
G	Bill No. 4 Prime Cost & Provisional Sums	PC/PS 1	26,350,000.00	
	SUB TOTAL			
H	ADD 0.03% PPRA LEVY			
TOTAL CARRIED TO FORM OF TENDER (INCLUSIVE OF VAT): KSHS				

Contract Period.....weeks

Amount in words: Kenya Shillings.....

Tenderer's Signature.....
 Address.....
 Date

Witness Signature.....
 Address.....
 Date



GROUND FLOOR PLAN

Scale 1:100

32.

THE DEPARTMENT FOR PUBLIC WORKS
SHEPHERD

Any discrepancy will be cleared with the Project Manager.

**Proposed Construction to
Completion of Solai Teacher's
Training College
(Revised Drawings)**

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COUNTY PUBLIC WORKS OFFICE

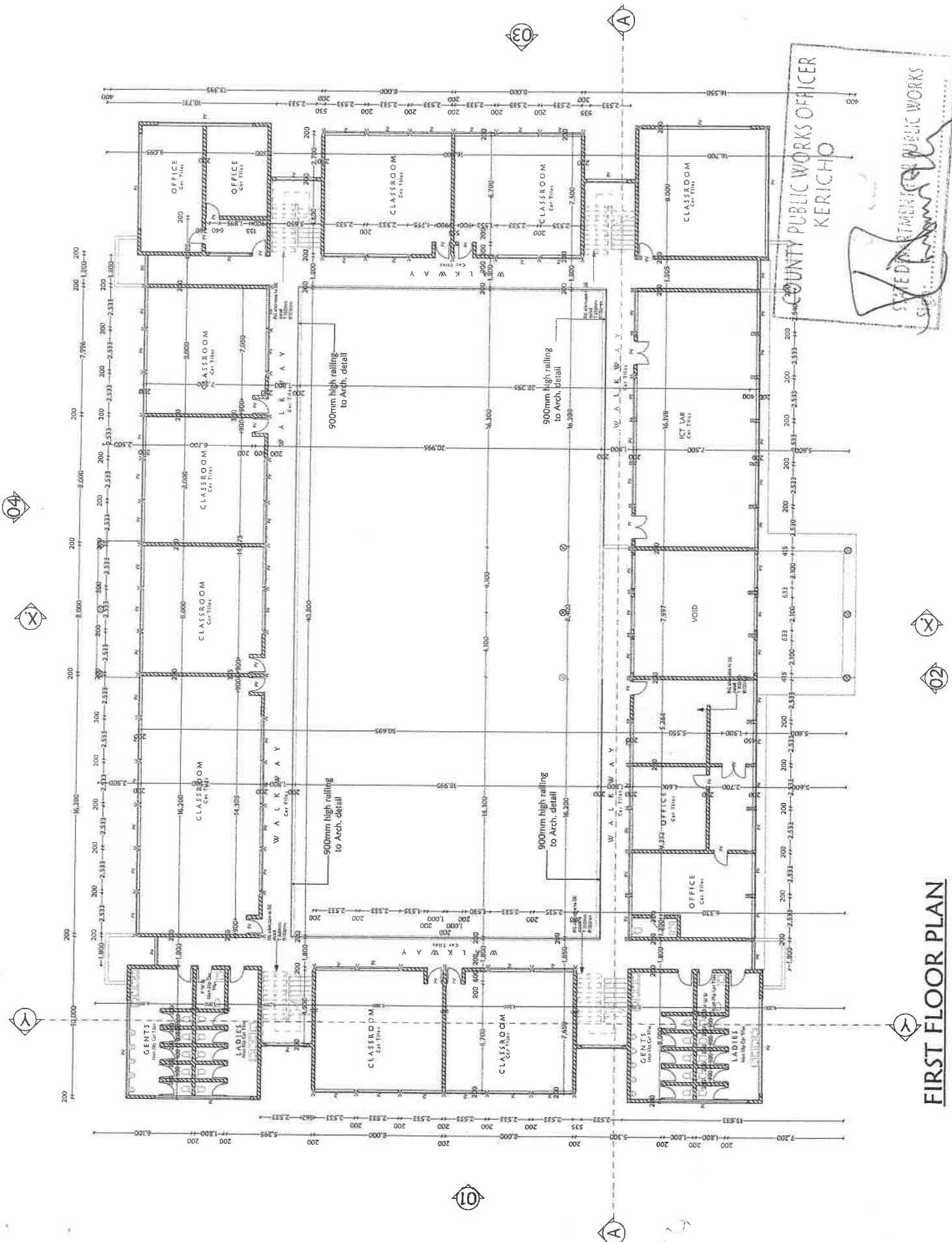
KERICHO COUNTY

State Department of Public Works

RESEARCH



APN



FIRST FLOOR PLAN

Scale 1:100

83.

RESEARCH
All respondents who have taken college courses identified themselves as not to be studied. Only 39 respondents for the first two questions had their name and grade at the department before completing part of each survey.
My thanks go to the students who helped me collect the data.

NOTE
1. Data are presented in the next issue. RSCC means common

When the information is more timely, the value of the information is higher. For example, if a person has information about a stock's price, the value of the information is higher if the person has the information before the stock is traded than if the person has the information after the stock is traded. In this case, the value of the information is higher if the person has the information before the stock is traded than if the person has the information after the stock is traded.

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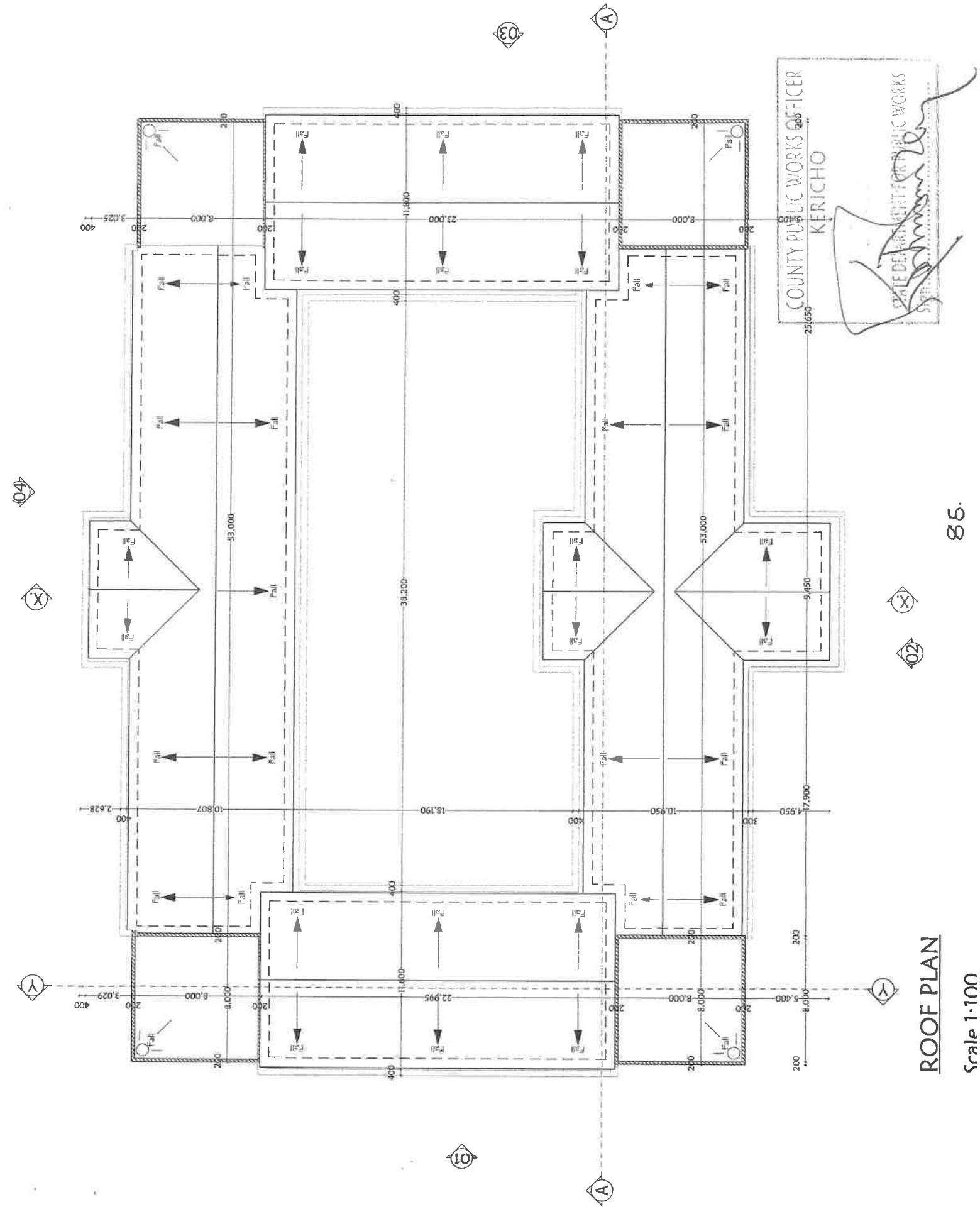
Arch. Ngugi K.M

100

Construction Drawings

(Including Drawings)

COUNTY PUBLIC WORKS OFFICE
KERICHO COUNTY
State Department of Public Works

[illegible]

ROOF PLAN

Scale 1-100

ACKNOWLEDGMENTS

At the University of Illinois, researchers have used a computer model to predict the impact of climate change on the world's wheat production. The model shows that wheat production will decline by 20% to 40% by 2050, depending on the scenario. The researchers also found that the impact of climate change on wheat production will be more significant in the tropics than in the temperate regions.

the authors of the study. The authors of the study are not responsible for any errors or for any consequences arising from the use of the information contained in this article. The authors of the study are not responsible for any errors or for any consequences arising from the use of the information contained in this article.

[illegible]

DECORATIONS
The new Thermal Wall surfaces are being introduced in a variety of decorative finishes. The Thermal Wall is available in a variety of colors and textures. The Thermal Wall is available in a variety of colors and textures. The Thermal Wall is available in a variety of colors and textures.

[illegible]

DO NOT SCALE

TABLE 1			
Year	1990	1991	1992
Population	100,000	105,000	110,000
Area (km ²)	100	100	100
Population density (per km ²)	1,000	1,050	1,100

Arch. Ngugi K.M

**Proposed Construction to
Completion of Solat Teacher's
Training College
(Revised Drawings)**

End

Construction Drawings

PUBLIC WORKS

COUNTY PUBLIC WORKS OFFICER
KERICHO COUNTY

State Department of Public Works

PLANT	DATE	GRAVE
NEGLIGENT		

	DATE	TIME	
	NAME	SIGNATURE	
	INSTRUMENT	SCALE	
	UNIT	TYPE	

ELEVATION E-02

Scale 1:100

Natural Mazeras Stone Cladding to Column Base; Finish, Colour and Course Alignment to Match Adjacent Keyed Bluestone and Stone-Clad Facade Elements; to Architect's Approval.

Natural Mazeras Stone Cladding Selected to Match Colour, Texture and Character of Adjacent Keyed Bluestone Facades.

Rendered RC Entrance Columns Finished with Textured Exterior Paint; to Arch's Approval.

Rendered Concrete Pediment finished with Textured Exterior Paint; to Arch's Approval.

Machine-Cut Bluestone Wall Finish with Horizontal Keying; Jointing and Finish to Arch's Approval.

Fair-Faced RC Column with Smooth Off-Shutter Finish; Apply Clear Protective Sealer.

Fair-Faced RC Column with Smooth Off-Shutter Finish; Apply Clear Protective Sealer.

Rendered Concrete Gutter finished with Textured Exterior Paint; to Arch's Approval.

ELEVATION E-04

Scale 1:100

Structural Steel Roof Members Complete with Protective Anti-Corrosion Coating. All to S.E. Details.

Machine-Cut Bluestone Wall Finish

R.C. gutter to SE detail

Masonry Wall to Arch's approval

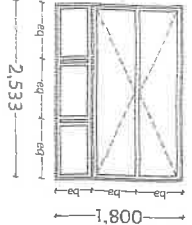
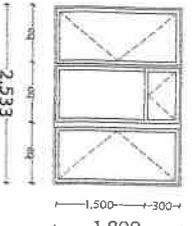
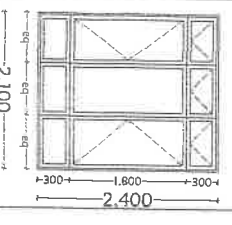
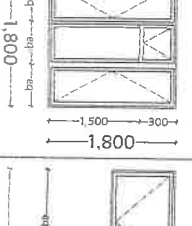
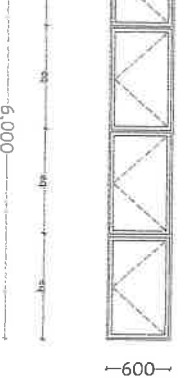
Window to schedule

RC staircase to SE details
 $t = 300 \text{ mm}$, $R = 150 \text{ mm}$

SECTION 4.04

78.

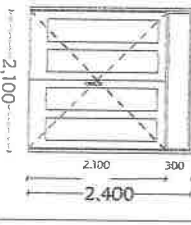
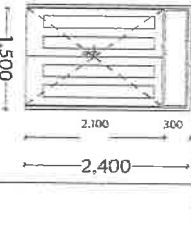
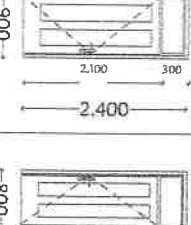
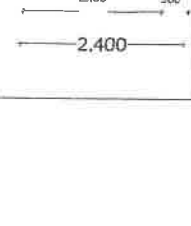
150 mm thick RC slab on 1000 gauge

Tile Turn Window	Casement Window	Casement Window	Casement Window	Top Hung Window
				
<p>- Location: All gates building courtyard/passage/walkways</p> <p>- DESCRIPTION: steel gauge 16 and 4mm thick galvanized window</p> <p>- SILL HEIGHT: 600mm from FFL</p> <p>- Quantity: 21 No.</p> <p>- Provide leave PV</p>	<p>- Location: All on exterior facing walls (Staircase, classroom, Library, ICT Lab, office, etc.)</p> <p>- DESCRIPTION: steel gauge 16 and 4mm thick galvanized window</p> <p>- SILL HEIGHT: 600mm from FFL</p> <p>- Quantity: 108 No.</p> <p>- Provide leave PV</p>	<p>- Location: Main entrance void (all on exterior facing wall)</p> <p>- DESCRIPTION: steel gauge 16 and 4mm thick galvanized window</p> <p>- SILL HEIGHT: 600mm from FFL</p> <p>- Quantity: 12 No.</p> <p>- Provide leave PV</p>	<p>- Location: Windows above all secondary entrance.</p> <p>- DESCRIPTION: steel gauge 16 and 4mm thick galvanized window</p> <p>- SILL HEIGHT: 600mm from FFL</p> <p>- Quantity: 8 No.</p> <p>- Provide leave PV</p>	<p>- Location: Walkroom, Classroom, Office, Library</p> <p>- DESCRIPTION: steel gauge 16 and 4mm thick galvanized window</p> <p>- SILL HEIGHT: 1500mm from FFL</p> <p>- Quantity: 24 No.</p> <p>- Provide leave PV on fixed panel</p>
All window frames are specified as Gauge 16 hollow R15 min 50x50mm, 2 action specified at 1 1/2 inches.	All window frames are specified as Gauge 16 hollow R15 min 50x50mm, 2 action specified at 1 1/2 inches.	All window frames are specified as Gauge 16 hollow R15 min 50x50mm, 2 action specified at 1 1/2 inches.	All window frames are specified as Gauge 16 hollow R15 min 50x50mm, 2 action specified at 1 1/2 inches.	All window frames are specified as Gauge 16 hollow R15 min 50x50mm, 2 action specified at 1 1/2 inches.

WINDOW SCHEDULE

S C H E D U L E O F F I N I S H E S	FLOOR FINISH (F.F)	WALL FINISH (W.F)	CEILING FINISH (C.F)
Classrooms	300 x 300mm Non-Slip Ceramic Floor Tiles on Cement-Sand Screed Bed.	15mm Cement-Sand Plaster Finished with Premium Vinyl Silk Paint to Arch's Approved Colour.	12mm FR Gypsum Board Ceiling on Concealed Metal Framework Complete with Emulsion Paint Finish.
Offices	300 x 300mm Non-Slip Ceramic Floor Tiles on Cement-Sand Screed Bed.	15mm Cement-Sand Plaster with Premium Vinyl Silk Paint Finish to Arch's approval.	Full-Faced Reinforced Concrete Slab Finished with Acrylic Paint.
Library	300 x 300mm Non-Slip Ceramic Floor Tiles on Cement-Sand Screed Bed.	15mm Cement-Sand Plaster with Premium Vinyl Silk Paint Finish to Arch's approval.	Moisture-Resistant Gypsum Board Ceiling with Emulsion Paint Finish.
Washrooms/ Wet areas	300 x 300mm Non-Slip Ceramic Floor Tiles on Cement-Sand Screed Bed.	15mm Cement-Sand Plaster with Premium Vinyl Silk Paint Finish to Arch's approval.	Full-Faced Reinforced Concrete Slab Finished with Acrylic Paint.
Staircases	Non-Slip Staircase Ceramic Treads and Risers to Arch's detail.	15mm Cement-Sand Plaster with Premium Vinyl Silk Paint Finish to Arch's approval.	Full-Faced Reinforced Concrete Slab Finished with Acrylic Paint.
Walkways	Heavy-Duty Non-Slip Ceramic Floor Tiles on Cement-Sand Screed.	15mm Cement-Sand Plaster with Textured Acrylic Paint Finish to Arch's approval.	Painted Concrete Slab / Gypsum Board Ceiling Where Applicable.
Passages	Heavy-Duty Non-Slip Ceramic Floor Tiles on Cement-Sand Screed.	15mm Cement-Sand Plaster with Textured Acrylic Paint Finish to Arch's approval.	Painted Concrete Slab / Gypsum Board Ceiling Where Applicable.
Lobby	Heavy-Duty Non-Slip Ceramic Floor Tiles on Cement-Sand Screed.	15mm Cement-Sand Plaster with Textured Acrylic Paint Finish to Arch's approval.	Painted Concrete Slab / Gypsum Board Ceiling Where Applicable.
Entry porches	Heavy-Duty Non-Slip Ceramic Floor Tiles on Cement-Sand Screed.	15mm Cement-Sand Plaster with Textured Acrylic Paint Finish to Arch's approval.	Painted Concrete Slab / Gypsum Board Ceiling Where Applicable.
Landscaped Pedestrian Areas	60mm Interlocking Concrete Capped Paving Blocks Laid on Compacted Sand Bed and SF Approved Sub-Base.	N/A	N/A
External Pavement and Walkways	Heavy-Duty Interlocking Concrete Paver Laid on Compacted Sand Bed and Approved Sub-Base.	N/A	N/A
Parking Areas	80mm Heavy-Duty Concrete Pavers on Compacted Hardcore, Murrum Sub-Base and Sand Bed.	N/A	N/A
External Steps	Non-Slip Ceramic Tiles Complete to Arch's approval.	N/A	N/A

DOOR SCHEDULE

Hardwood solid panel door	Hardwood solid panel door	Hardwood solid panel door	Hardwood semi-solid panel door
			
<ul style="list-style-type: none"> - All main entry points - 9 no. req. - 3 lever mortice locks with furniture specified as UNION or equal and approved - 1/2 pairs of 100mm brass polished butt specified as UNION or approved equal - 2no polished brass door handles specified as UNION or equal and approved - 2no wall mounted rubber door stop specified as UNION or approved equal 	<ul style="list-style-type: none"> - All secondary entrances, Office lobby, ICT Lab, Library - 9 no. req. - 3 lever mortice locks with furniture specified as UNION or equal and approved - 1/2 pairs of 100mm brass polished butt specified as UNION or approved equal - 2no polished brass door handles specified as UNION or equal and approved - 2no wall mounted rubber door stop specified as UNION or approved equal 	<ul style="list-style-type: none"> - Classroom, Office, Walkroom - 72 no. req. - 3 lever mortice locks with furniture specified as UNION or equal and approved - 1/2 pairs of 100mm brass polished butt specified as UNION or approved equal - 2no polished brass door handles specified as UNION or equal and approved - 2no wall mounted rubber door stop specified as UNION or approved equal 	<ul style="list-style-type: none"> - Toilet cubicle - 6 no. req. - 3 lever mortice locks with furniture specified as UNION or equal and approved - 1/2 pairs of 100mm brass polished butt specified as UNION or approved equal - 2no polished brass door handles specified as UNION or equal and approved - 2no wall mounted rubber door stop specified as UNION or approved equal

COUNTY PUBLIC WORKS OFFICER
KERICHO

NOTES

1. All dimensions are in millimeters unless otherwise stated.

2. All work shall be in accordance with the specifications of the Kenya Building Code of Practice (KBCP) 2017.

3. All materials shall be of the highest quality and shall be approved by the Engineer in Charge.

4. All work shall be completed within the specified time frame.

5. All work shall be done in accordance with the safety rules and regulations of the construction site.

6. All work shall be done in accordance with the environmental protection rules and regulations.

7. All work shall be done in accordance with the fire safety rules and regulations.

8. All work shall be done in accordance with the health and safety rules and regulations.

9. All work shall be done in accordance with the quality control rules and regulations.

10. All work shall be done in accordance with the project management rules and regulations.

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GROUND FLOOR PLUMBING LAYOUT

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.

MECHANICAL

1. All plumbing and drainage work to comply with specifications.
2. S.V.P. demister coil vent pipe and to be provided at the head of the drainage.
3. Where drainage is shown under slab, to be installed in 150mm thick concrete.
4. All underground foul and waste drain pipes shall be of PVC to comply with BS 5255.
5. No setting of concrete without express approval from S.E.
6. Minimum slope in the drain pipes to be 1%.
7. All setting of pipes must be coordinated with electrical and any conflict must be resolved before works begin.

LEGENDS

COLD WATER

ISOLATION VALVE

1:1 TO BELOW

1:1 FROM ABOVE

100% RISING MAINS

PROJECT:

PROPOSED CONSTRUCTION TO
COMPLEMENT POLYTECHNIC
TRAINING COLLEGE

CLIENT:

KERICHO TEACHERS TRAINING COLLEGE

Signature: _____ Date: _____

DRAWING TITLE:

GROUND FLOOR PLUMBING LAYOUT

SCALE:

N/S

DRAWN BY:

J. NAIKUMI

CHECKED BY:

Name: _____

Signature: _____

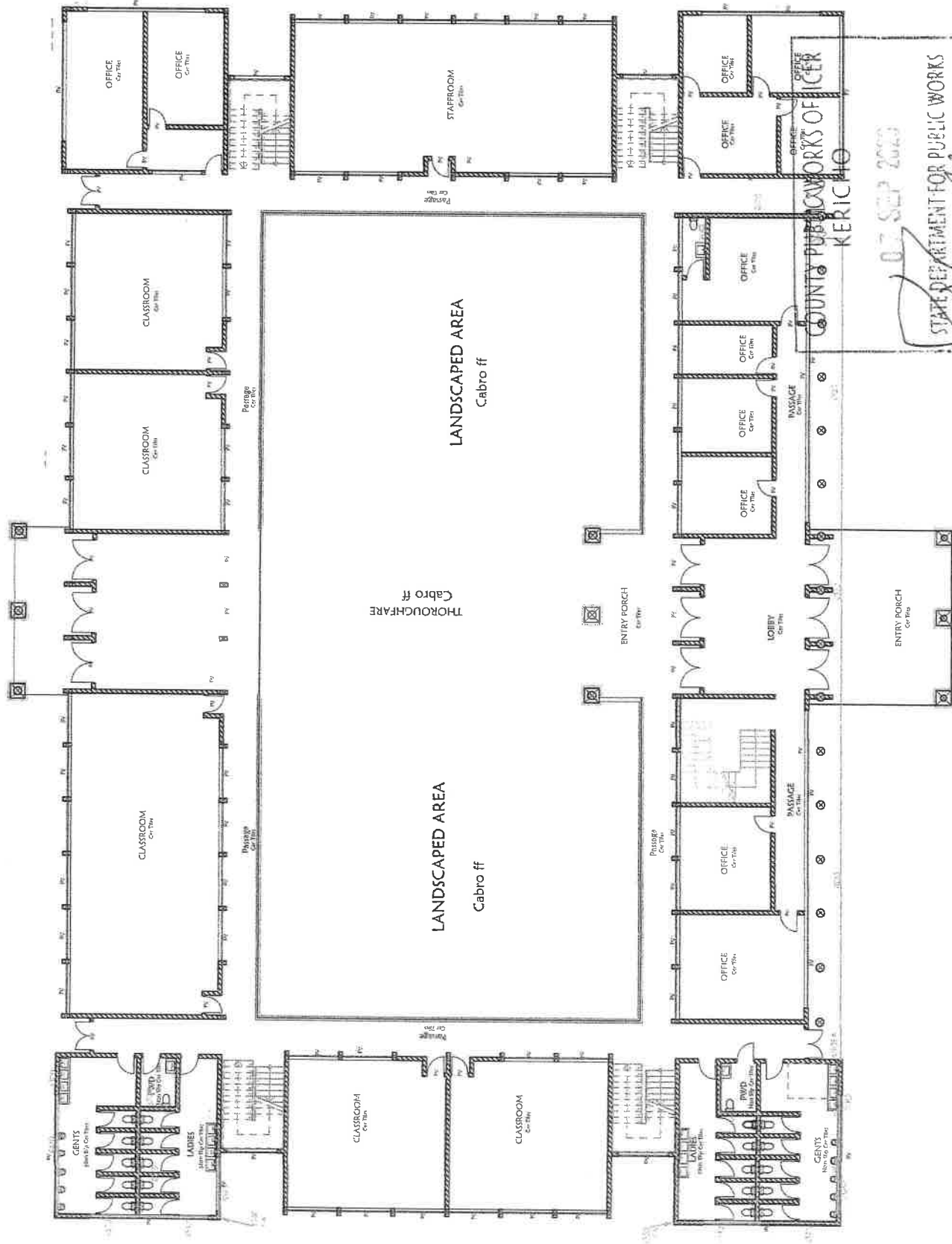
Date: _____

DATE:

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



FOR THE GOVERNMENT OF THE
REPUBLIC OF KENYA



07 SEP 2009

STATE DEPARTMENT FOR PUBLIC WORKS
KERICHO

Architectural floor plan of the County of Riverside Sheriff's Office building. The plan shows a central corridor (WALKWAY) with rooms on both sides. Rooms include CLASSROOM, OFFICE, LAB, and restrooms (GENTS, LADIES). Dimensions are provided for many rooms. A large central area is labeled '900mm high railing to Arch. detail'. The building is labeled 'COUNTY OF RIVERSIDE SHERIFF'S OFFICE' and 'KERICHO'.

1. This drawing to be read in conjunction with Engineer's drawing.
2. All dimensions are in mm unless otherwise specified.
3. Drawings are not to be scaled. Only figures dimensions should be used.
4. The contractor must check and verify all dimensions before commencement of work, and if necessary confirm with the architect.

1. All plumbing and drainage work to comply with specification
2. SVP drains and vent pipe and to be provided at the head of the drainage
3. Where drainage is above under slab it to be fitted in U-shaped pipe concrete
4. All underground foul and waste drain pipe must be of PVC to comply with BS 5235
5. No cutting of concrete without express approval from S/E
6. Minimum slopes in the drain pipes to be 1 in 100
7. All falling of pipes must be soundchecked with ultrasound and any defect must be rectified before work begins

! ! : TO BELOW

PROJECT:

PROPOSED CONSTRUCTION TO
COMPLETION OF SOLAI TEACHERS
TRAINING COLLEGE

CLIENT:

Signature: _____ Date: _____

DRAWING TITLE:

GROUND FLOOR PLUMBING LAYOUT

DRAWN BY: J.N.NAIKUM

CHECKED BY:

NAME: _____

अध्याय १०

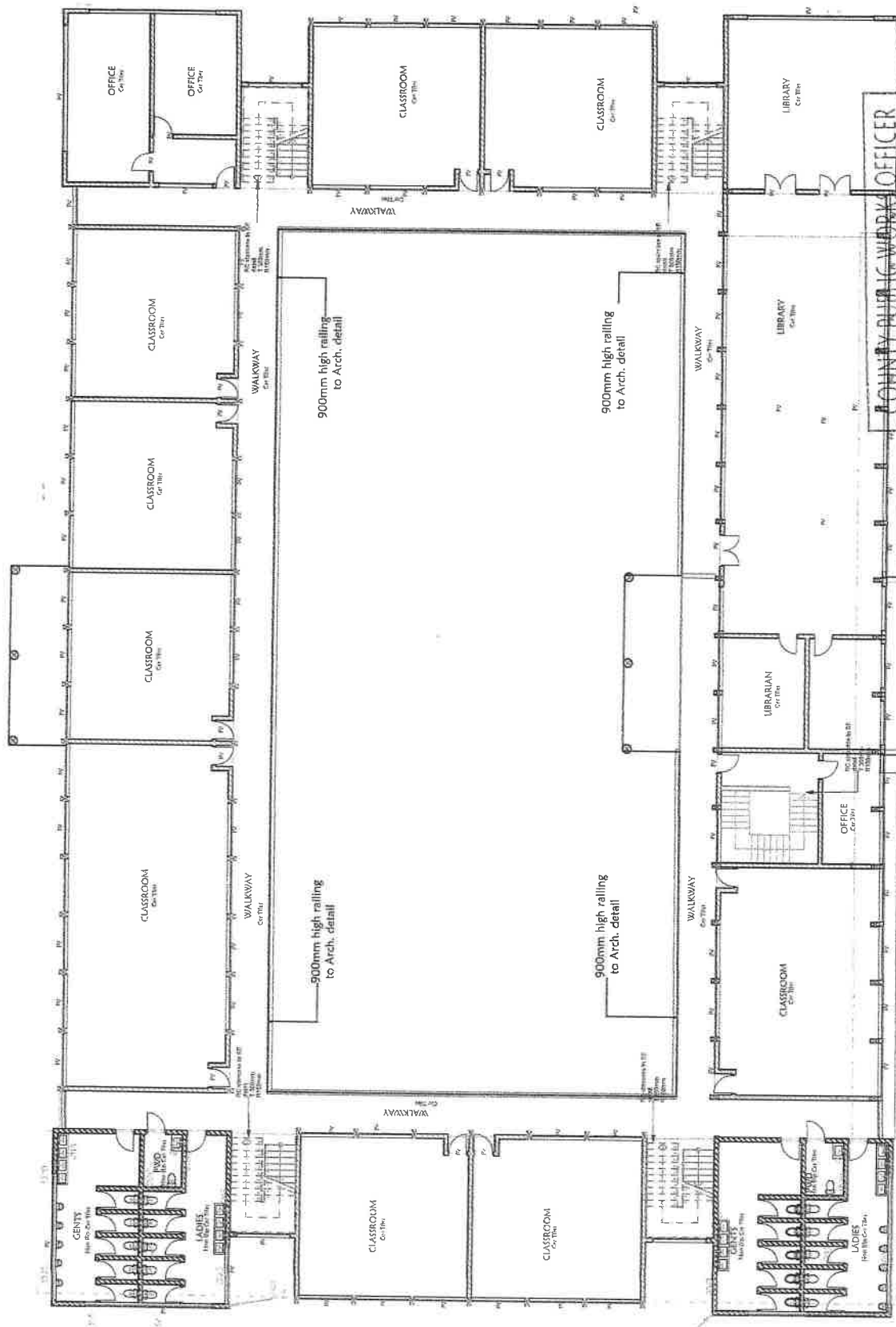
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MINISTRY OF LANDS, PUBLIC WORKS,
HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT FOR PUBLIC WORKS



FOR THE GOVERNMENT OF THE
REPUBLIC OF KENYA

SECOND FLOOR PLUMBING LAYOUT



GENERAL NOTES

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

MECHANICAL

1. All plumbing and drainage work to comply with specifications.
2. S.V.P. director roll vent pipe and to be provided at the head of the drainage system.
3. All drainage pipes to be installed in 150mm thick concrete surround.
4. All underground foul and waste drain pipes shall be of PVC to comply with BS 5255.
5. No cutting of concrete without express written permission from S.E.
6. Minimum slope in the drain pipes to be 1%.
7. All testing of pipes must be coordinated with electrical and any conflict must be resolved before work begins.

LEGENDS

COLD WATER

ISOLATION VALVE

1:1 TO BELOW

1/4 FROM ABOVE

1/4 RISING MAINS

PROJECT:

PROPOSED CONSTRUCTION TO COMPLETION OF SOGA/TEACHERS TRAINING COLLEGE

CLIENT:

KERICHO TEACHERS TRAINING COLLEGE

Signature: _____ Date: _____

DRAWING TITLE:

GROUND FLOOR PLUMBING LAYOUT

SCALE:

NIS

DRAWN BY:

J.N.NAKUMI

CHECKED BY:

Name: _____ Date: _____

DATE:

Signature: _____

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



FOR THE GOVERNMENT OF THE
REPUBLIC OF KENYA

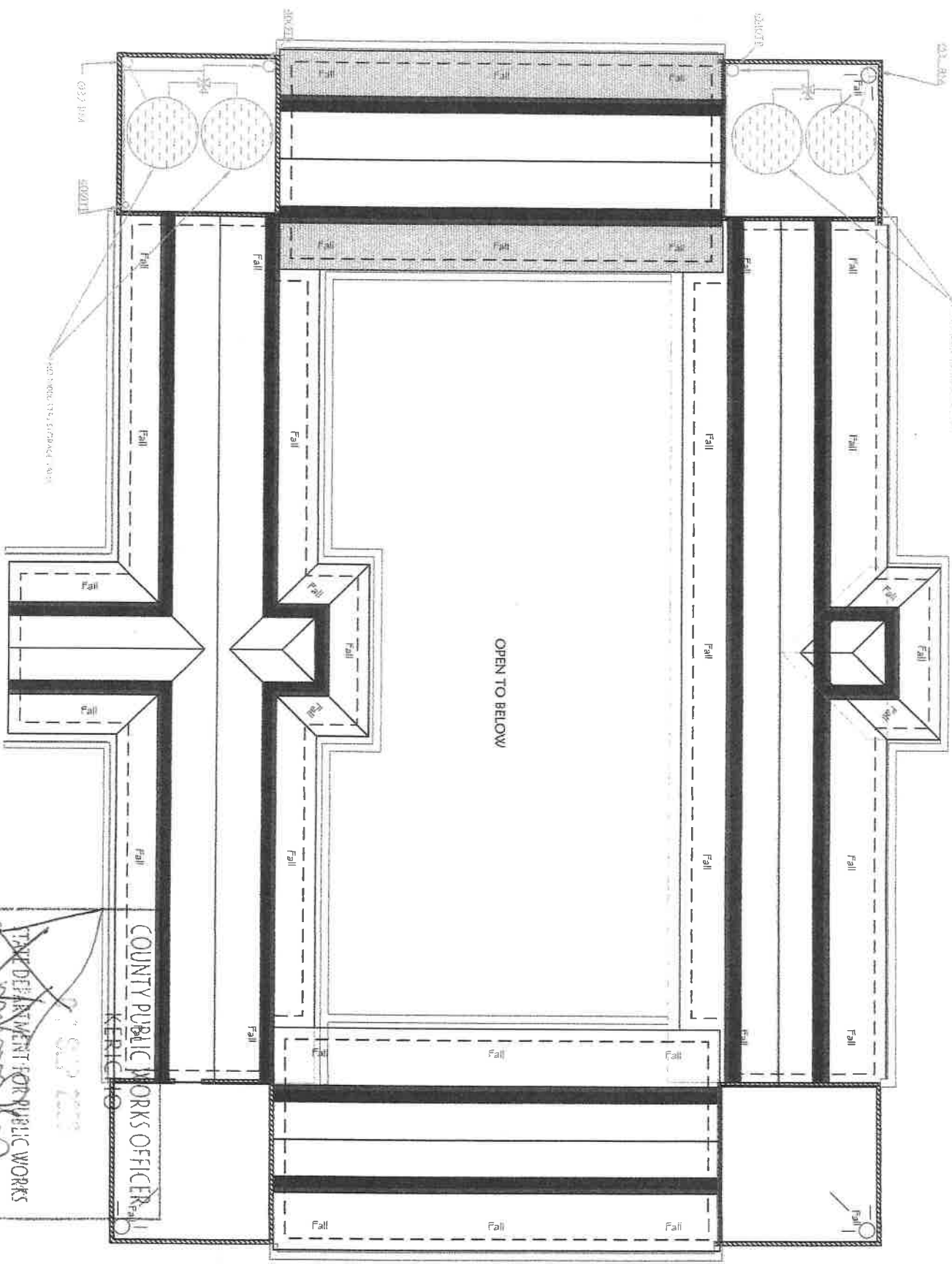
KERICHO

COUNTY PUBLIC WORKS OFFICER

STATE DEPARTMENT FOR PUBLIC WORKS

Signature: _____

ROOF PLUMBING LAYOUT



GENERAL NOTES

1. This drawing to be read in conjunction with the Bill of Materials.
2. 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.

MECHANICAL

1. All plumbing and drainage work to comply with specifications.
2. S.V.P. (vent pipe) must be provided at the head of the drainage.
3. Where drainage is shown under slab, to be encased in 150mm thick concrete.
4. All underground soil and waste drain pipes shall be of PVC to comply with BS 5255.
5. No cutting of concrete without express approval from S.E.
6. Minimum slope in the drain pipes to be 1:100.
7. All testing of pipes must be coordinated with electrical and any conflict must be resolved before work begins.

LEGENDS

COLD WATER

ISOLATION VALVE

TO: TO BELOW

FROM ABOVE

RUN FROM MAINS

PROJECT:

PROPOSED CONSTRUCTION TO COMPLETION OF SOAL TEACHERS TRAINING COLLEGE

CLIENT:

KERICHO TEACHERS TRAINING COLLEGE

DRAWING TITLE:

ROOF PLUMBING LAYOUT

SCALE:

N/S

DRAWN BY: J.N. NAKIMI

CHECKED BY:

Name: _____

Signature: _____ Date: _____

DATE:

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



FOR THE GOVERNMENT OF THE
REPUBLIC OF KENYA

STATE DEPARTMENT FOR PUBLIC WORKS
KERICHO

GROUND FLOOR DRAINAGE LAYOUT

GENERAL NOTES

1. This drawing is to be read in conjunction with the Engineering Code of Practice.
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 consult with the architect.

MECHANICAL

1. All plumbing and drainage work to comply with specifications.
2. S.V.P. denotes vent pipes and to be provided at the head of the drainage.
3. All underground foul and waste drain to be encased in 150mm thick concrete surround.
4. All underground foul and waste drain pipe shall be of PVC to comply with BS 5355.
5. No cutting of concrete without express permission.
6. Minimum slope in the drain pipes to be 1%.
7. All testing of pipes must be coordinated with electrical and any conflict must be resolved before work begins.

LEGENDS

- VENT PIPE
- STORM WATER
- CATCH PIT
- MAN
- MH HOLE
- VP VENT PIPE
- IC INSPECTION CHAMBER
- FT FLOOR TRAP

PROJECT:
PROPOSED CONSTRUCTION TO COMPLETION OF SOCIAL TEACHERS TRAINING COLLEGE

CLIENT:
KERICHO TEACHERS TRAINING COLLEGE

DRAWING TITLE:
GROUND FLOOR DRAINAGE LAYOUT

SCALE:
N/S

DRAWN BY:
J.N. NAKUMI

CHECKED BY:
Name: _____ Date: _____

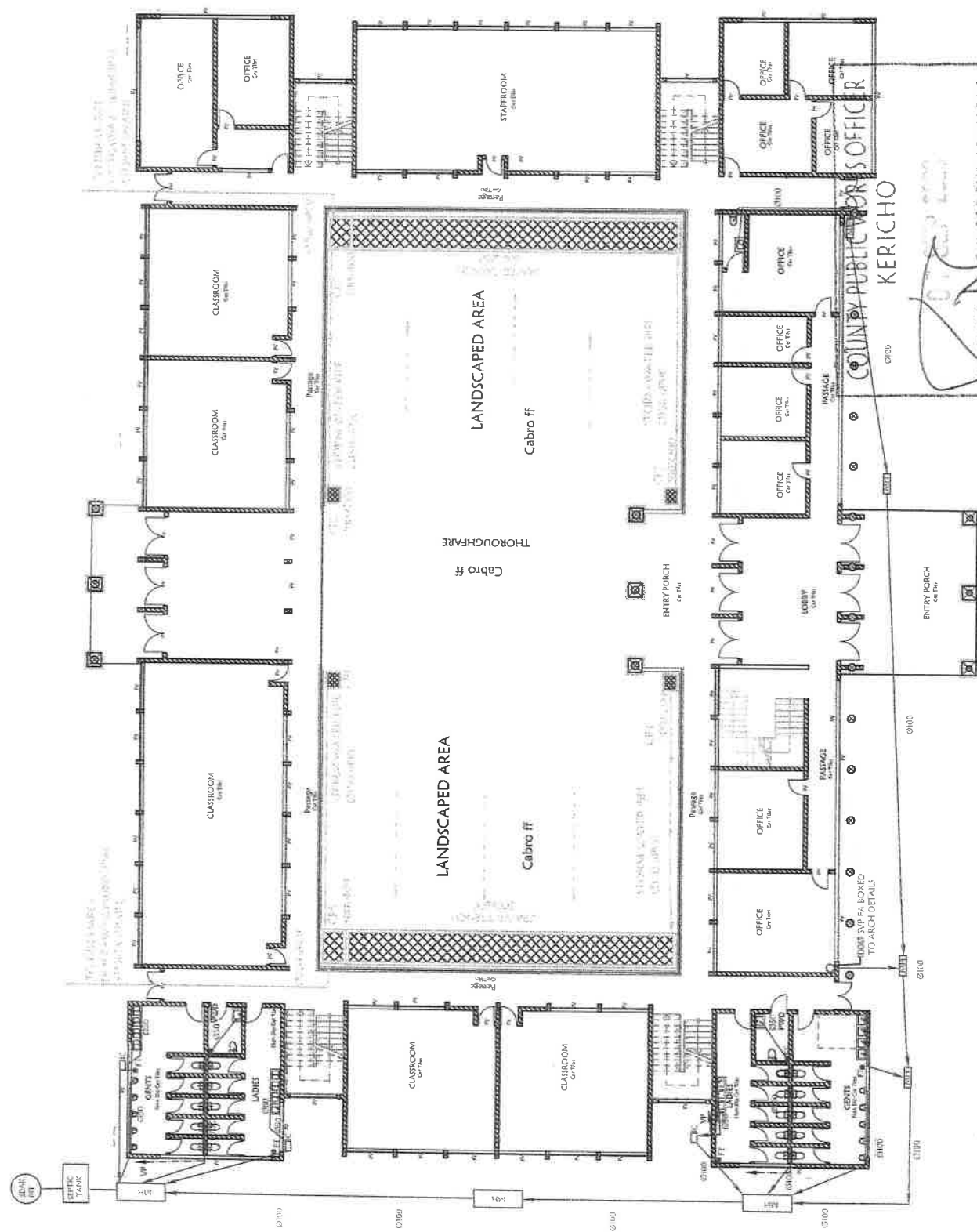
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MINISTRY OF LANDS, PUBLIC WORKS,
HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT FOR PUBLIC WORKS

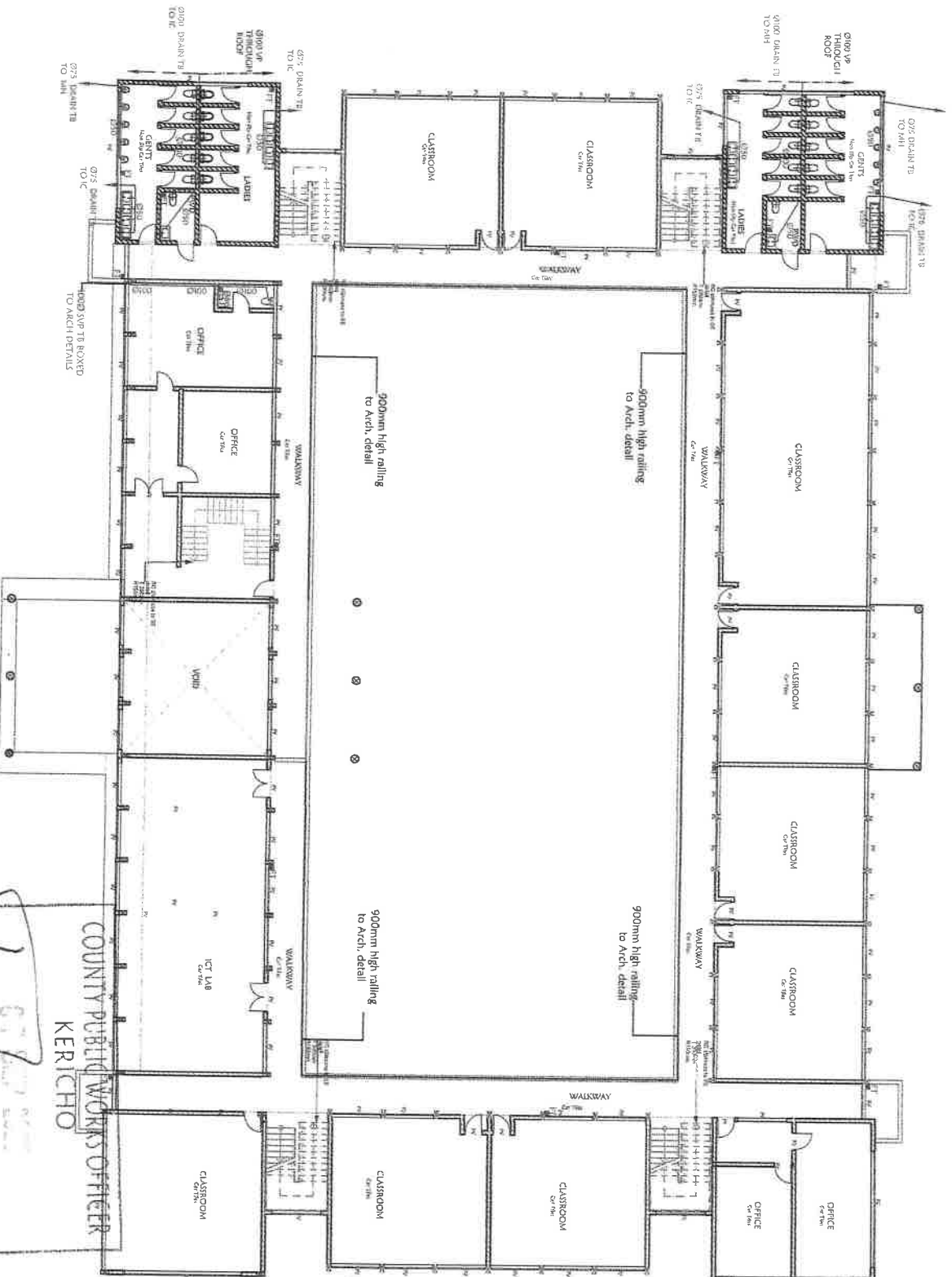


FOR THE GOVERNMENT OF THE
REPUBLIC OF KENYA



KERICHO
COUNTY PUBLIC WORKS OFFICER
STATE DEPARTMENT FOR PUBLIC WORKS
SIGNATURE: _____

FIRST FLOOR DRAINAGE LAYOUT



GENERAL NOTES

1. This drawing to be read in conjunction with Engineer's drawing.
2. All dimensions are in mm unless otherwise specified.
3. Drawings are not to be scaled. Only figured dimensions should be used.
4. All dimensions are to be taken from the center line of the pipe unless otherwise specified.
5. All dimensions are to be taken from the center line of the pipe unless otherwise specified.
6. All dimensions are to be taken from the center line of the pipe unless otherwise specified.
7. All dimensions are to be taken from the center line of the pipe unless otherwise specified.

MECHANICAL

1. All plumbing and drainage work to comply with specifications.
2. All pipes to be of the type and size specified.
3. All pipes to be of the type and size specified.
4. All pipes to be of the type and size specified.
5. All pipes to be of the type and size specified.
6. All pipes to be of the type and size specified.
7. All pipes to be of the type and size specified.

LEGENDS

- MAN HOLE
- VP VENT PIPE
- IC INSPECTION CHAMBER
- FT FLOOR TRAP

PROJECT:

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAR TEACHERS TRAINING COLLEGE

CLIENT:

KERICHO TEACHERS TRAINING COLLEGE

SIGNATURE:

DRAWING TITLE:

GROUND FLOOR PLUMBING LAYOUT

SCALE:

1:50

DRAWN BY:

J.N. NAKUMI

CHECKED BY:

DATE:

10/10/2010

MINISTRY OF LANDS, PUBLIC WORKS, HOUSING AND URBAN DEVELOPMENT

STATE DEPARTMENT FOR PUBLIC WORKS



FOR THE GOVERNMENT OF THE REPUBLIC OF KENYA

GENERAL NOTES

7. This drawing to be read in conjunction with Engineers' drawing
8. All dimensions are in mm unless otherwise specified
9. Drawings are not to be scaled Only figured dimensions should be used
10. The contractor must check and verify all dimensions before commencement of work and if necessary confer with the architect

MECHANICAL

1. All plumbing and drainage work to comply with the relevant standards.
2. S.W.P. drainage will vent pipe and to be provided at the head of this drainage.
3. Where drainage is shown, under slab, to be installed in 150mm thick concrete surround.
4. All underground foul and waste drain pipers shall be of PUC to comply with BS 5353.
5. No cutting of concrete without express approval from J.E.
6. Minimum slope in the drain pipers to be 1%.
7. All setting of pipers must be coordinated with electrical and any conflict must be resolved before works begin.

LEGENDS

- VENT PIPE
 MAN
 HOLE
 V/P VENT PIPE
 IC INSPECTION CHAMBER
 FT FLOOR TRAP

PROJECT:

PROPOSED CONSTRUCTION TO
COMPLETION OF SOLAI TEACHERS
TRAINING COLLEGE

CLIENT:

KERICHO TEACHERS TRAINING COLLEGE

Signature: _____ Date: _____

DRAWING TITLE:
GROUND FLOOR PLUMBING (A'QUIT)

SCALE:

DRAWN BY: J.N.NAIKUMI

CHECKED BY:

Name: _____

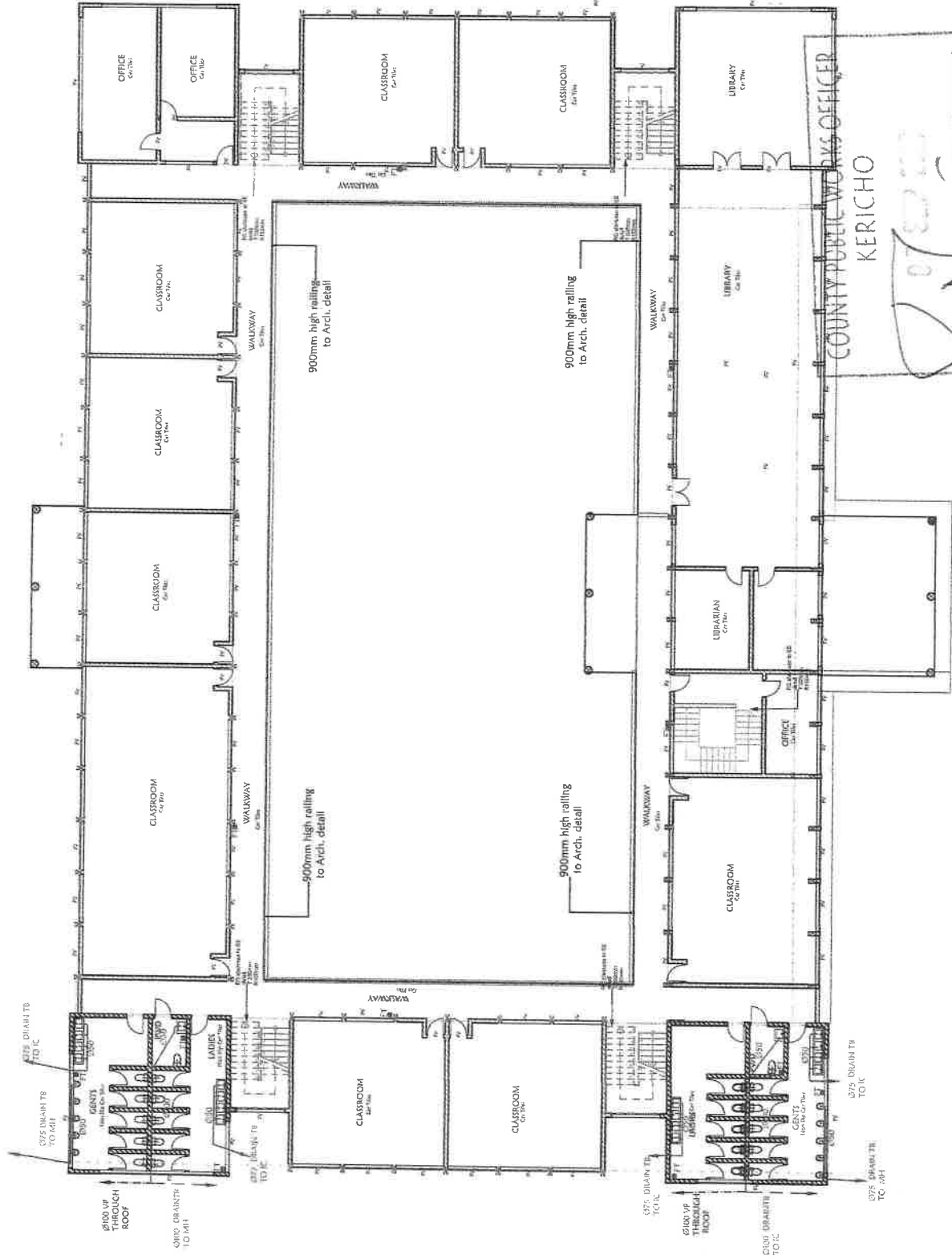
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MINISTRY OF LANDS, PUBLIC WORKS,
HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT FOR PUBLIC WORKS



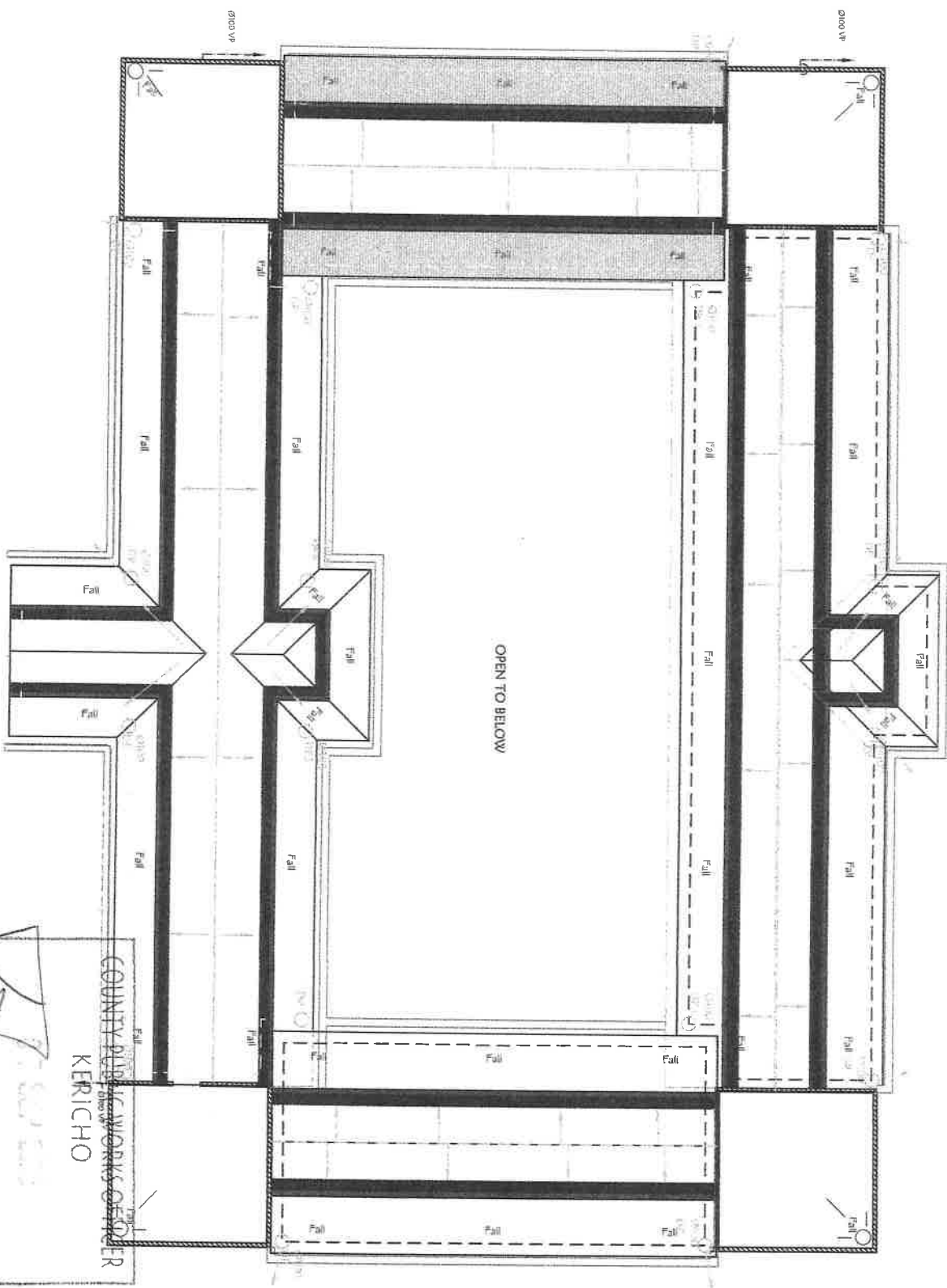
FOR THE GOVERNMENT OF THE
REPUBLIC OF KENYA



COUNTY PUBLIC WORKS OFFICER
KERICHO

~~STATE DEPARTMENT FOR PUBLIC WORKS~~

OPEN TO BELOW



1. This drawing to be read in conjunction with Engineer's drawing.
2. All dimensions are in mm unless otherwise specified.
3. Drawings are not to be scaled. Only figured dimensions should be used.
4. This contract must clear and verify all dimensions before commencement of work and if necessary confirm with the architect.

1. All plumbing and drainage work to comply with specifications
2. 5/16" diameter vent pipe and to be provided at the head of the drainage
3. When drainage is shown under slab, it shall be in 150mm light concrete surround
4. All underground foul and waste drain pipes shall be of PVC to comply with BS 5225
5. No culling of concrete without expert approval from S/E
6. minimum slope in the drain pipes to be 1%
7. All routing of pipes must be coordinated with electrical and any conflict must be rectified before works begin

VEN
DROP
MAN
HOLE

VP VENT PIPE
IC INSPECTION CHAMBER
FT FLOOR TRAP

PROPOSED CONSTRUCTION TO
COMPLETION OF SOLAI TEACHERS
TRAINING COLLEGE

CLIENT:
KERICHO TEACHERS TRAINING COLLEGE

Signature: _____ Date: _____

DRAWING TITLE:

ROOF DRAINAGE LAYOUT

NTS

DRAWN BY: J.N.NAIKUMI

CHECKED BY:

Name: _____

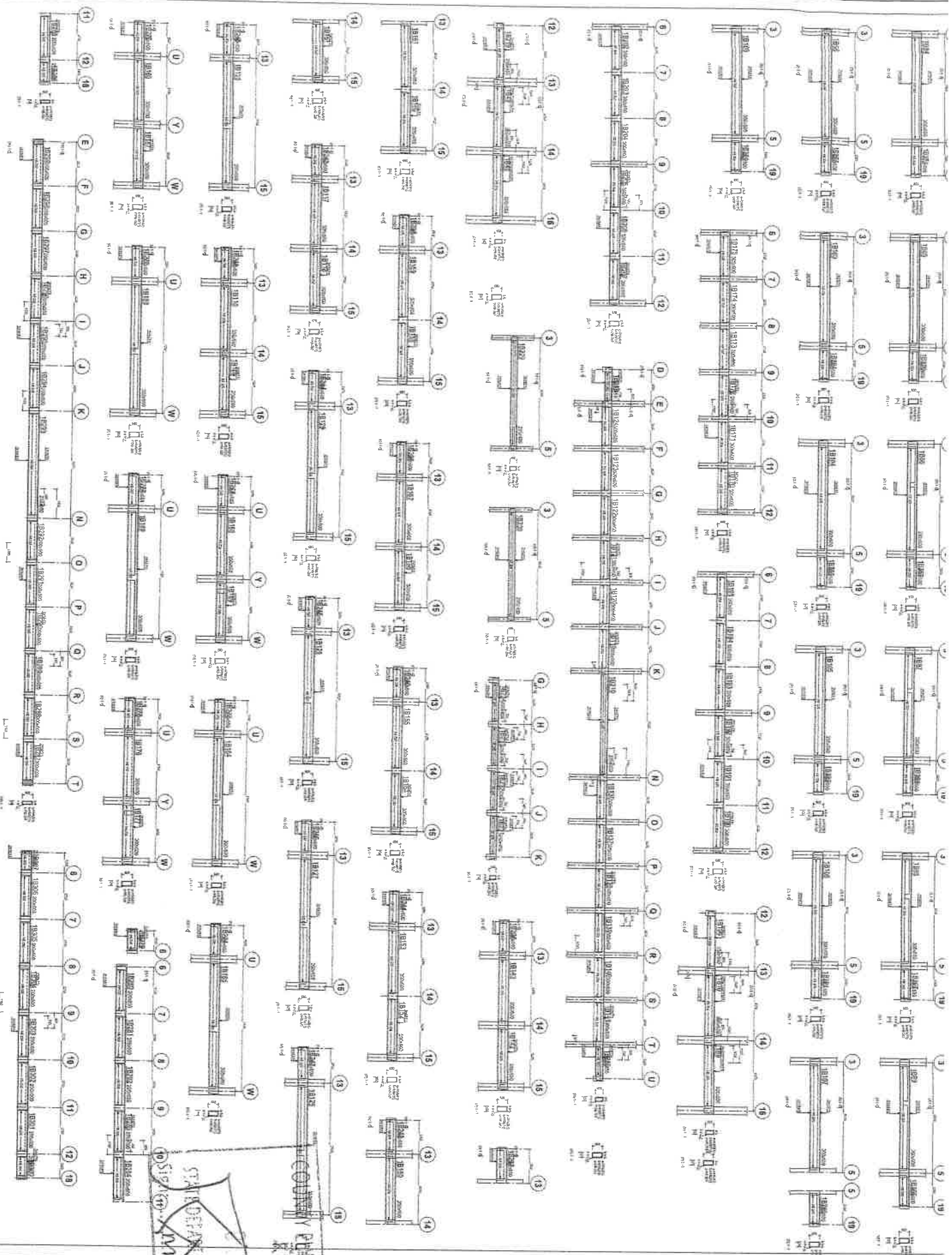
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MINISTRY OF LANDS, PUBLIC WORKS,
HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT FOR PUBLIC WORKS



FOR THE GOVERNMENT OF THE
REPUBLIC OF KENYA

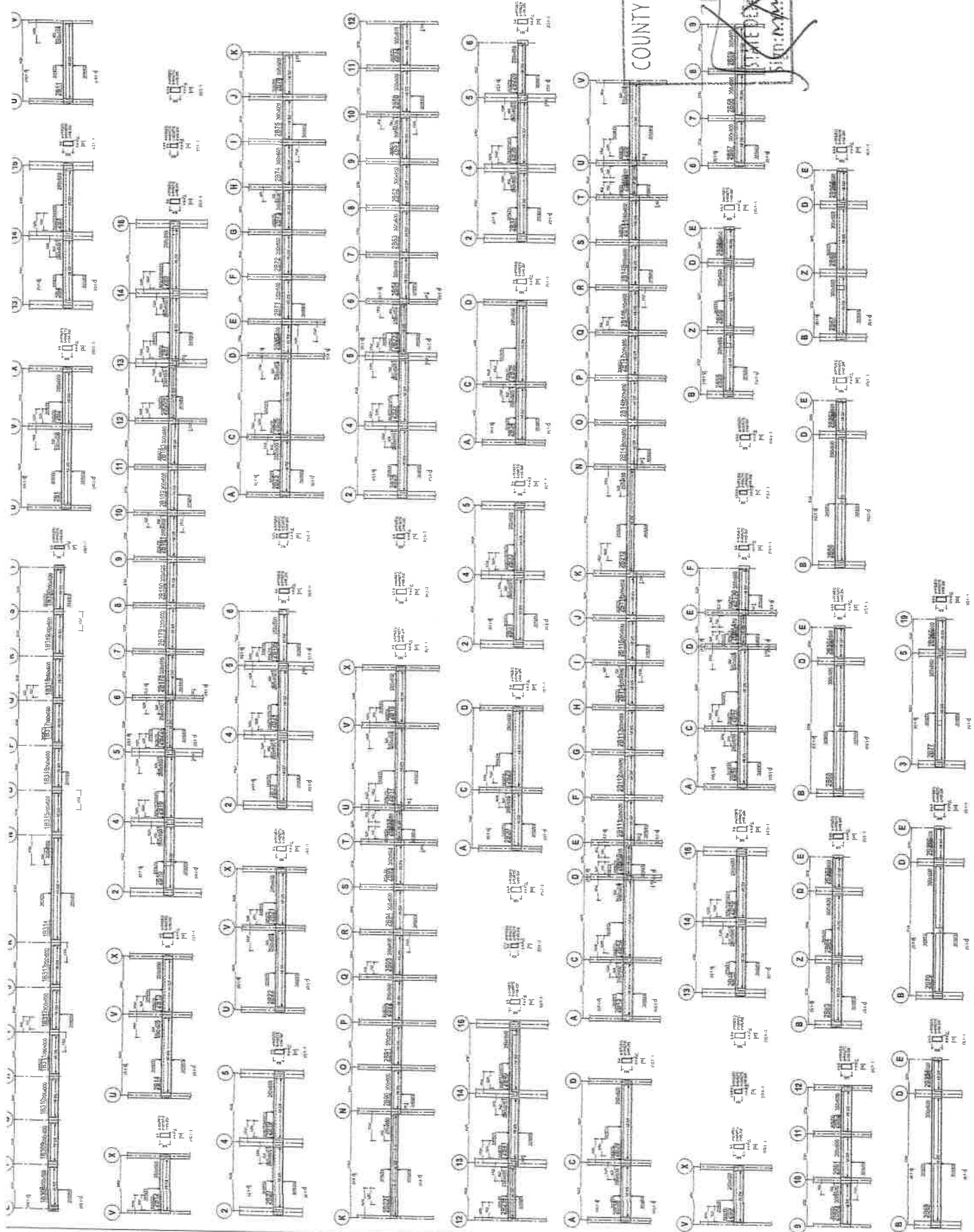


PUBLIC WORKS OFFICER
KERICHO

STANDARD FOR PUBLIC WORKS

Signature

PROPOSED CONSTRUCTION TO COMPLETION OF SOLIDITY	
BEAM ELEVATIONS	
Scale	1:100
Sheet No.	10
Project No.	
Client	
Design	
Construction	
Approval	
Remarks	

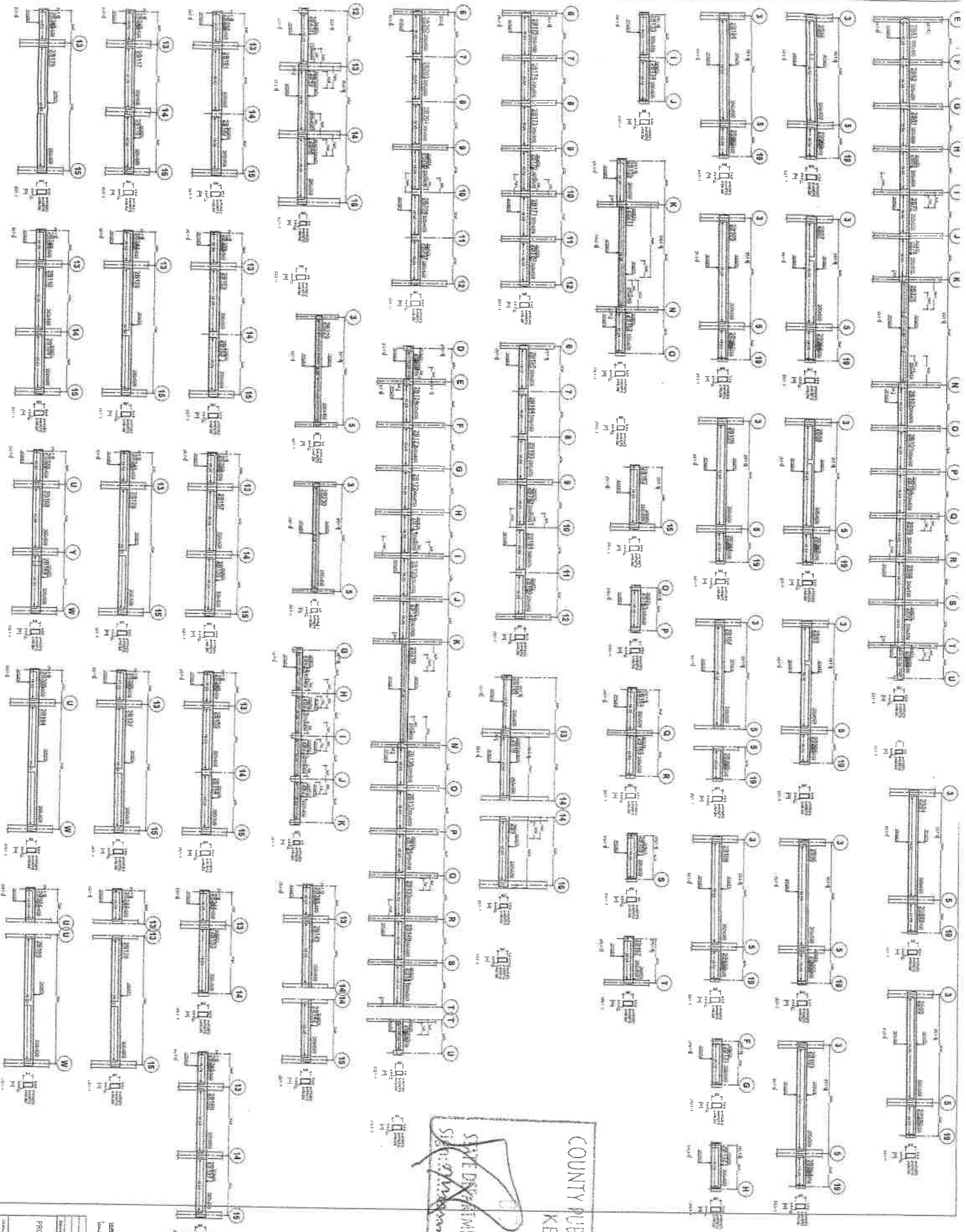


COUNTY PUBLIC WORKS OFFICER
KERICHO

STATE DEPARTMENT FOR PUBLIC WORKS
SIGNED: *[Signature]*

Scale
1" = 10'-0"

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAR BEAM ELEVATIONS	
Sheet No.	1
Project No.	
Drawn by	
Checked by	
Reviewed by	
Approved by	
Signature	
Date	



COUNTY PUBLIC WORKS OFFICER
 KERICHO
 STATE DEPARTMENT FOR PUBLIC WORKS
[Signature]

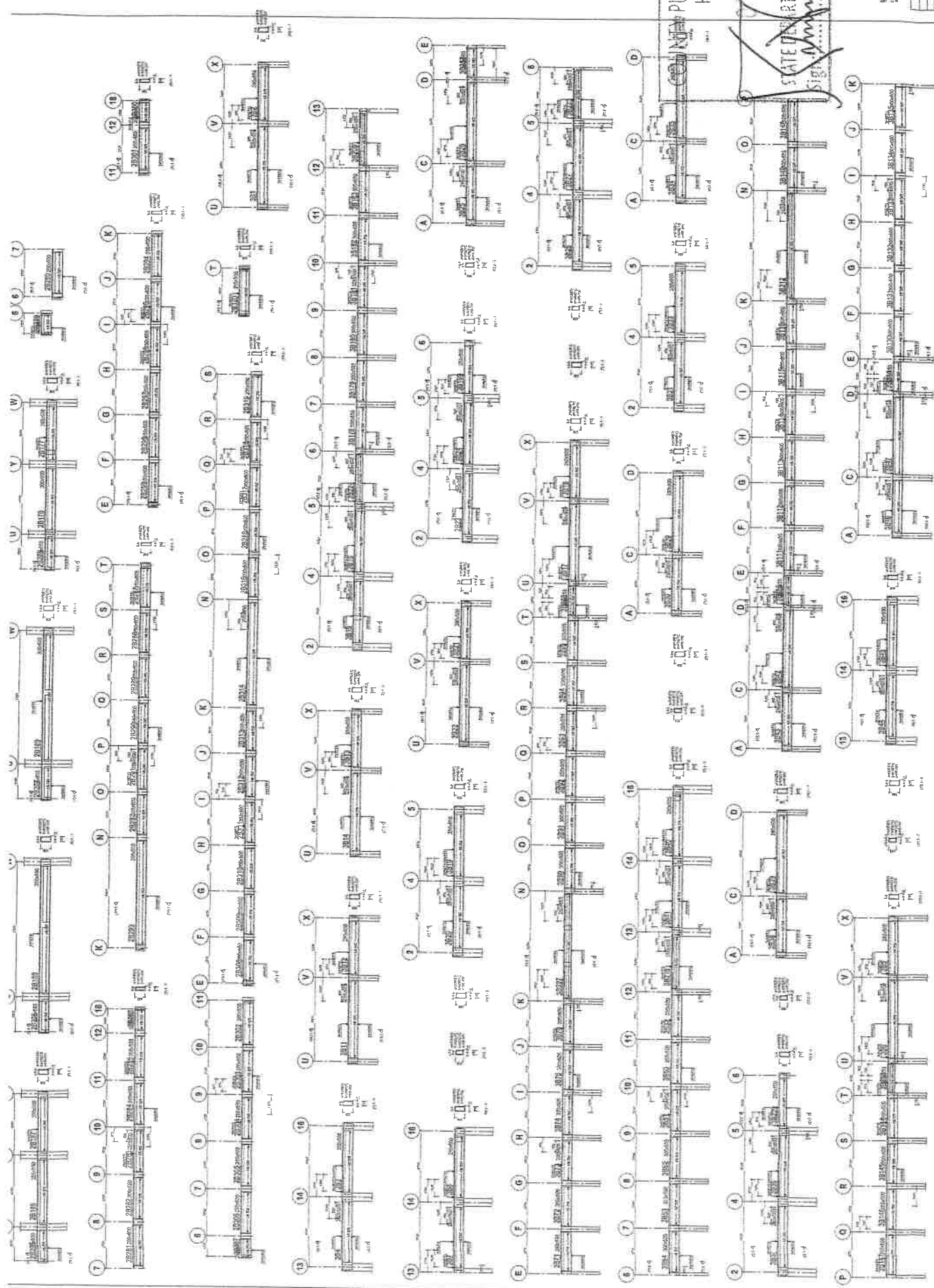
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SCALE
 1" = 10' 0" 1/2" = 25' 0"

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAR TITC
 DEMONSTRATIONS

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REMARKS



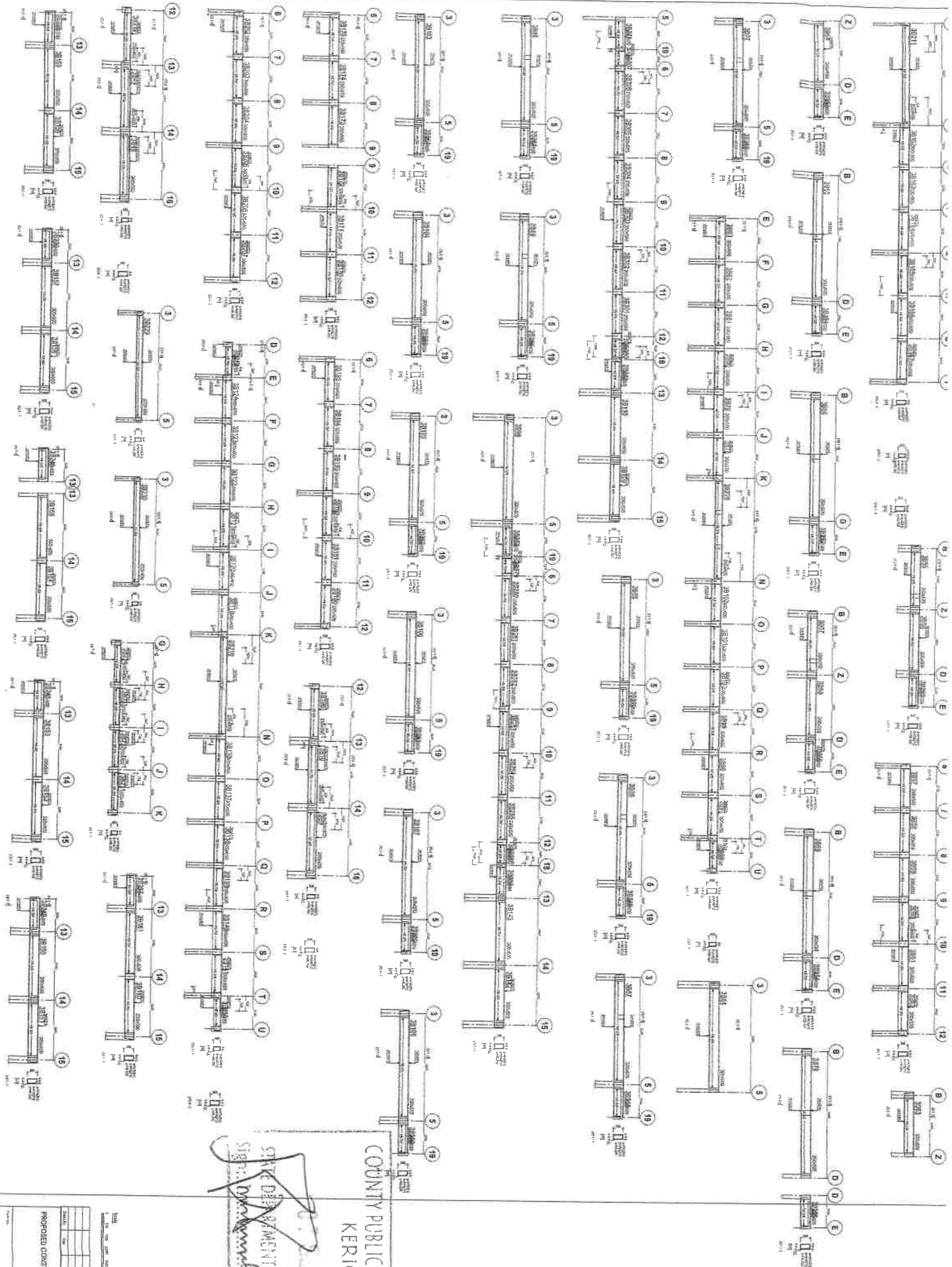
PUBLIC WORKS OFFICER
KERICHO

STATEMENT FOR PUBLIC WORKS

Signature

Scale: 1" = 10' 0"

PROPOSED CONSTRUCTION TO COMPLETION OF SOLAL TTC	
BEAM ELEVATIONS	
Sheet No.	1
Scale	1" = 10' 0"
Author	
Check	
Drawn	
Approved	
Remarks	



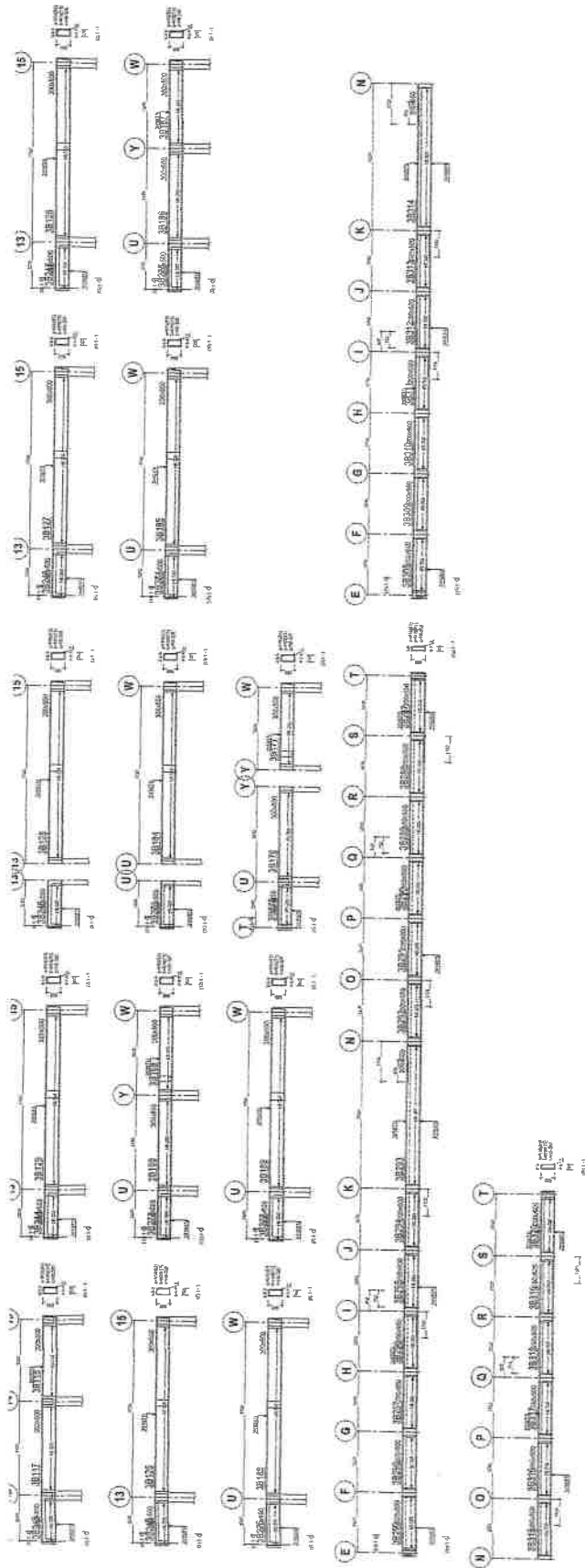
COUNTY PUBLIC WORKS OFFICER
KERICHO

STATE DEPARTMENT FOR PUBLIC WORKS
KERICHO

Scale
1:100

PROPOSED CONSTRUCTION TO COMPLETION OF SOLARITY
BEAM ELEVATIONS

Item	Quantity	Unit	Amount
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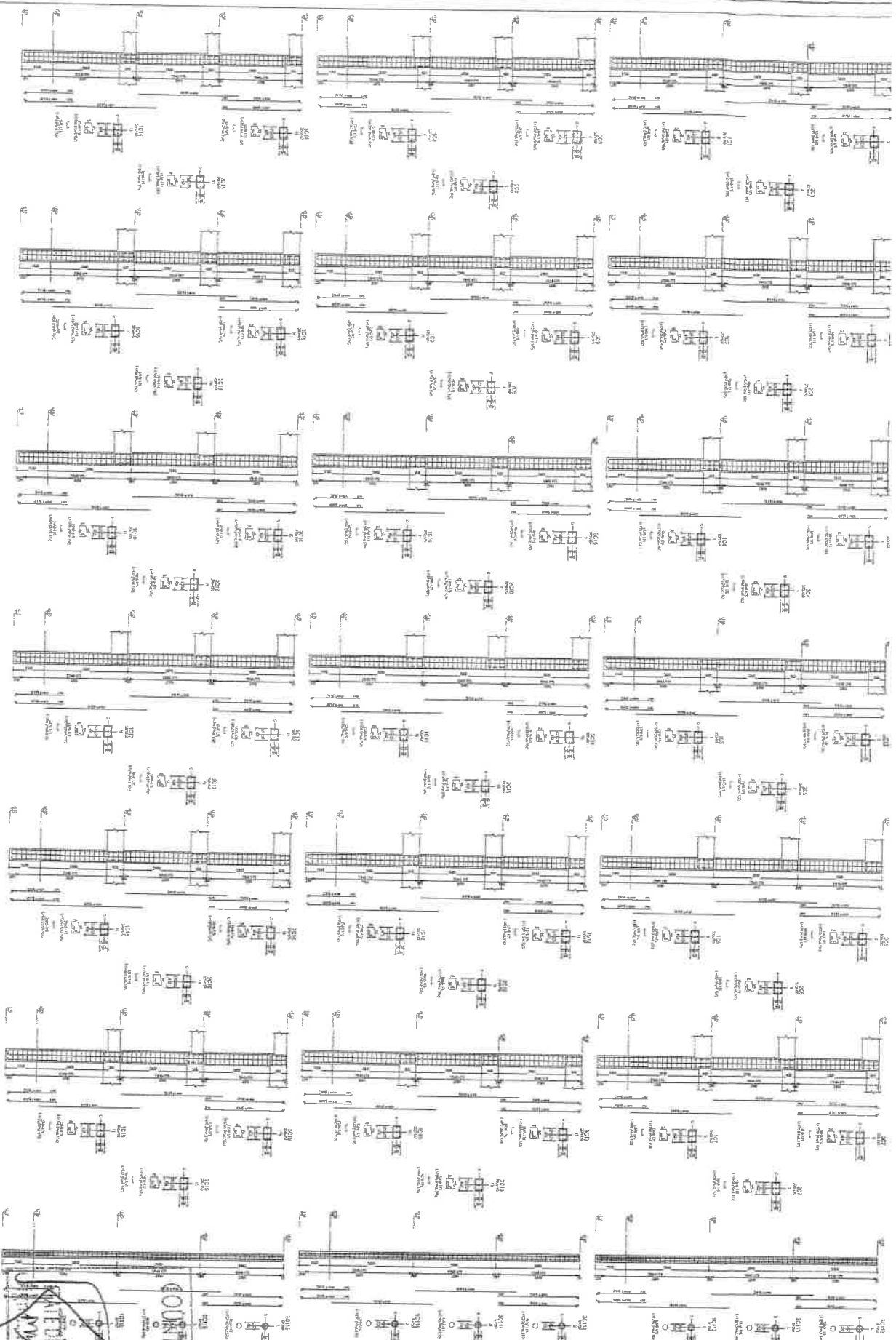


COUNTY PUBLIC WORKS OFFICER
KERICHO

STATE DEPARTMENT FOR PUBLIC WORKS

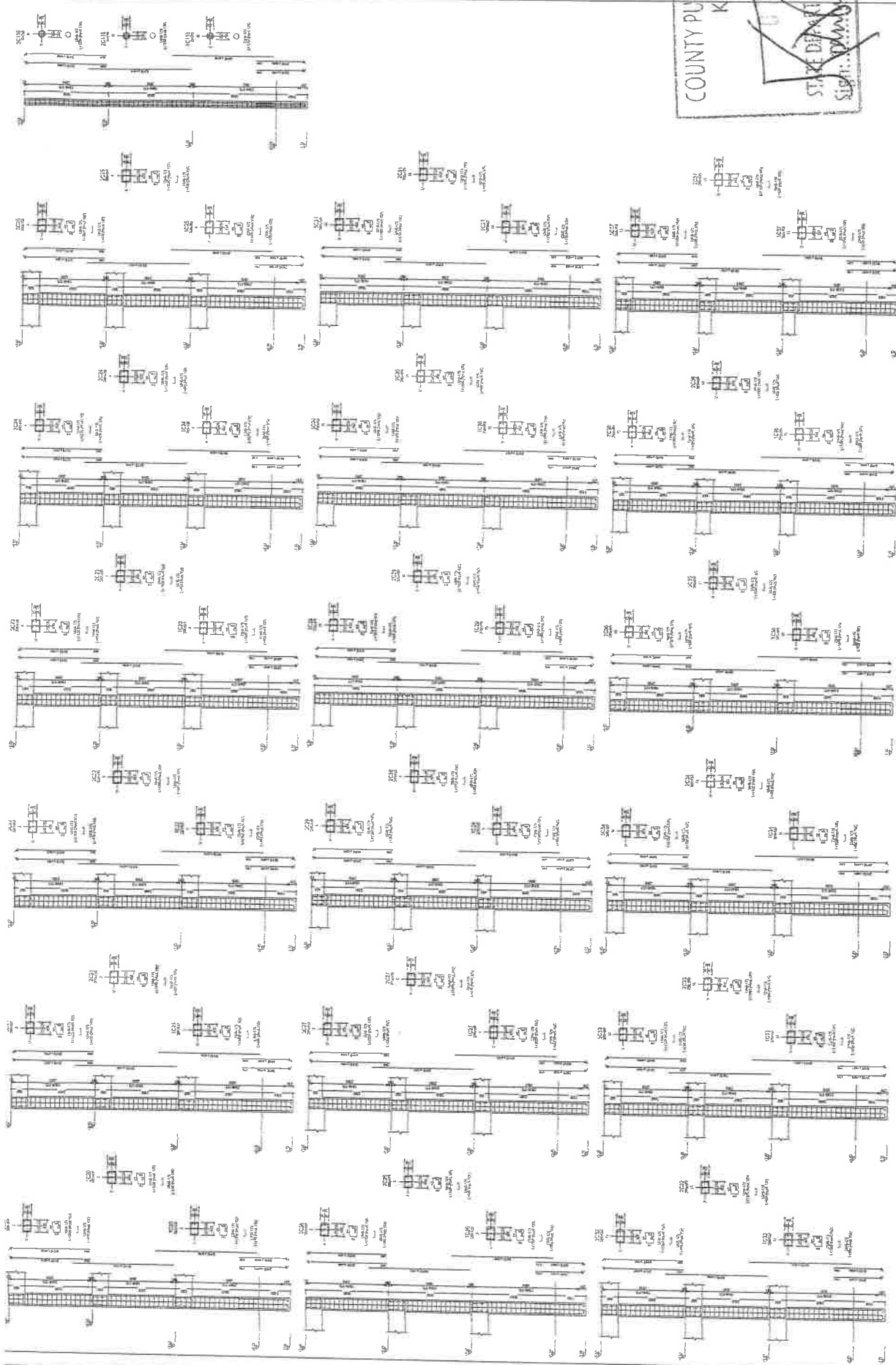
Scale
1" = 10'-0"

PROPOSED CONSTRUCTION TO COMPLETION OF SOLA 17	
BEAM ELEVATIONS	
Sheet No.	103
Project No.	
Drawn by	
Checked by	
Reviewed by	
Approved by	
Date	



COUNTY PUBLIC WORKS OFFICER
 KERICHIO
 SUBMITTED FOR PUBLIC WORKS
 [Signature]
 [Stamp]

Scale: 1/4" = 1'-0"
 1/8" = 1'-0"
 1/16" = 1'-0"
 1/32" = 1'-0"
 1/64" = 1'-0"
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 1/2048" = 1'-0"
 1/4096" = 1'-0"
 1/8192" = 1'-0"
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COUNTY PUBLIC WORKS OFFICER
KERICHO

STATE DEPARTMENT FOR PUBLIC WORKS
SUPERVISOR

PROPOSED CONSTRUCTION TO COMPLETION OF SQA/IT
COLUMN ELEVATIONS

Sheet No.	105
Scale	1:100
Author	
Checker	
Drawn by	
Reviewed by	
Checked by	
Approved by	



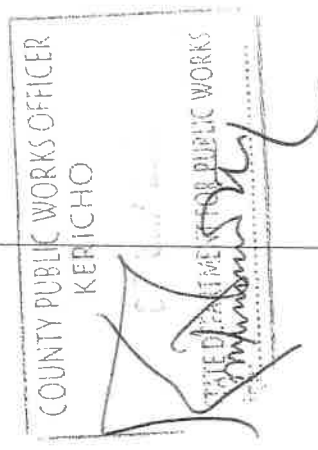
COUNTY PUBLIC WORKS OFFICER
KERICHO

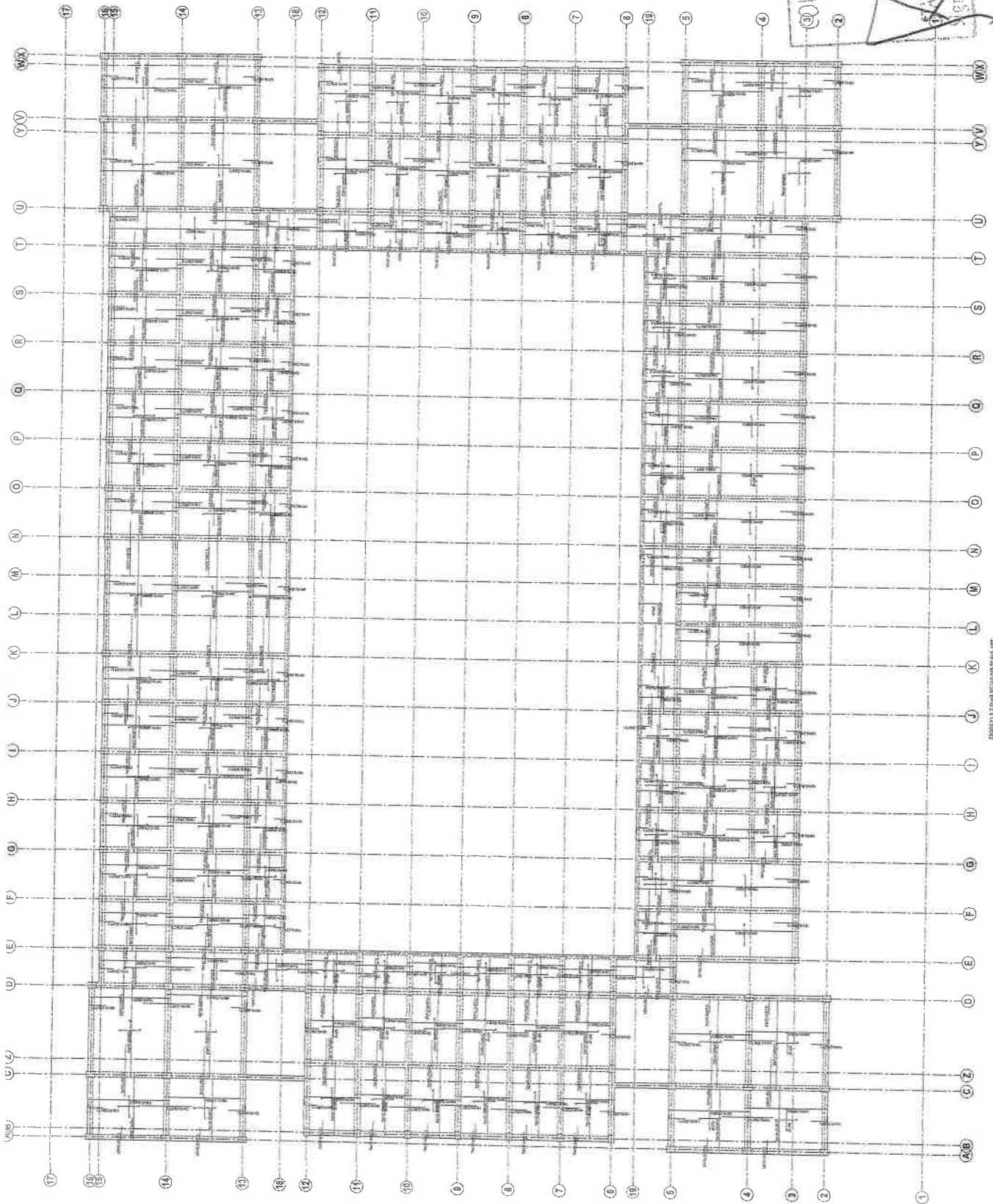
STATE DEPARTMENT FOR PUBLIC WORKS
SIGNED: *[Signature]*

106

PROPOSED CONSTRUCTION TO COMPLETION OF SOLA TM
COLUMN ELEVATIONS

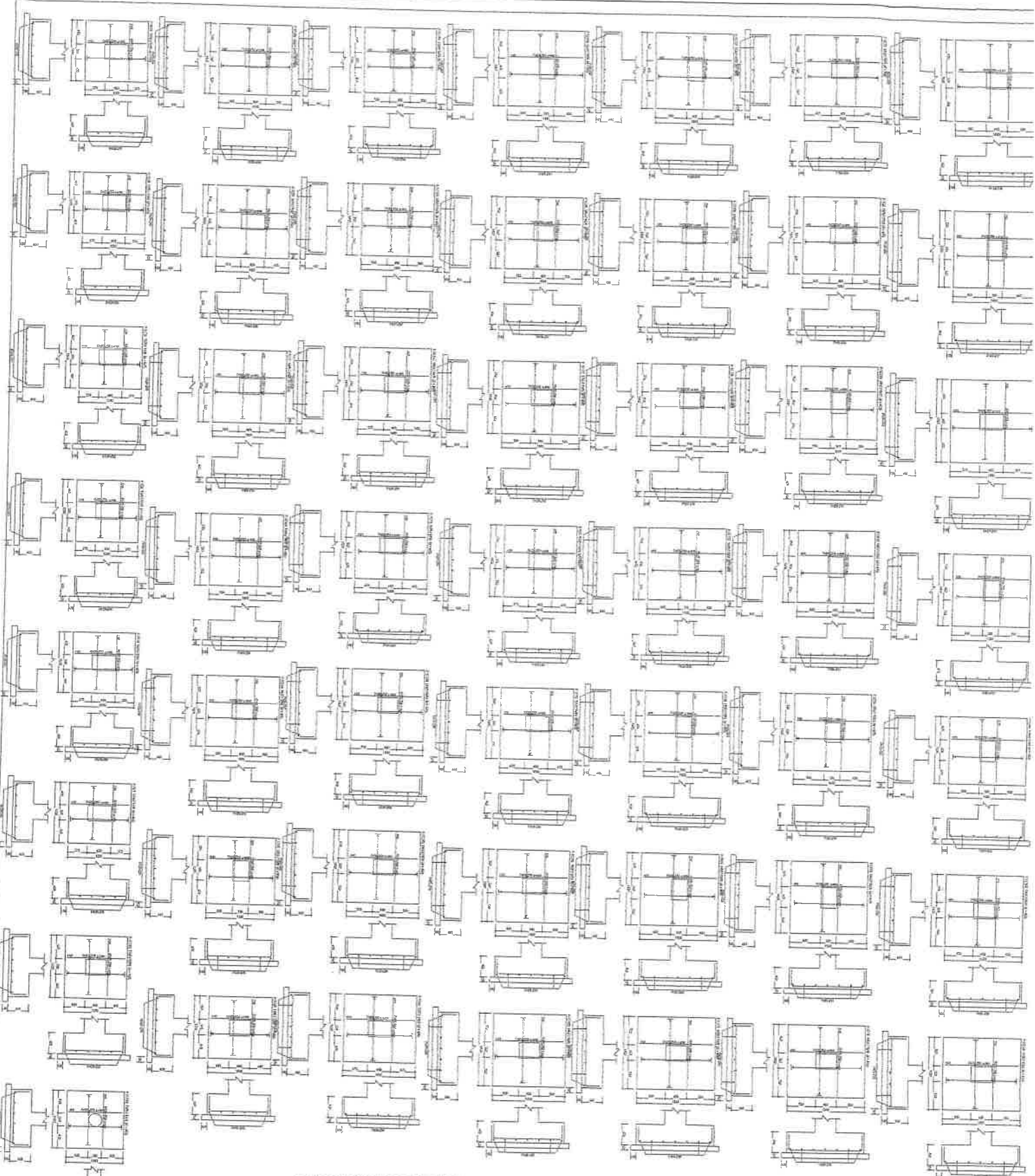
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7	10/10/2017	7
8	10/10/2017	8
9	10/10/2017	9
10	10/10/2017	10

[illegible]



COUNTY PUBLIC WORKS OFFICER
 KERICHO
 STATE DEPARTMENT FOR PUBLIC WORKS
[Signature]

Note :	Client Name: SOLA/ITC		Project Address:		Project Title: PROPOSED CONSTRUCTION TO COMPLETION OF SOLA/ITC		Scale:
	Presented By: STATE DEPARTMENT FOR PUBLIC WORKS- KERICHO OFFICE <small>Designed By: ENR & ASSOCIATES Checked By: ENR Drawn By: B.H</small>		Description		Project Date:		Project No:
							Revision No:



COUNTY PUBLIC WORKS OFFICER
KERICHO

STATE DEPARTMENT FOR PUBLIC WORKS
S. [Signature]

Scale: 1/4" = 1'-0"

PROPOSED CONSTRUCTION TO COMPLETION OF SOLA ITI
P&O FOOTINGS

Item	Description	Quantity	Unit	Price
1	Excavation	100	cuyd	100.00
2	Foundation	100	sq ft	100.00
3	Formwork	100	sq ft	100.00
4	Reinforcement	100	lb	100.00
5	Concrete	100	cuyd	100.00
6	Finishing	100	sq ft	100.00
7	Painting	100	sq ft	100.00
8	Other	100	sq ft	100.00
9	Subtotal			800.00
10	Total			800.00

COUNTY PUBLIC WORKS OFFICER
KERICHO

THE UNIVERSITY OF CHICAGO

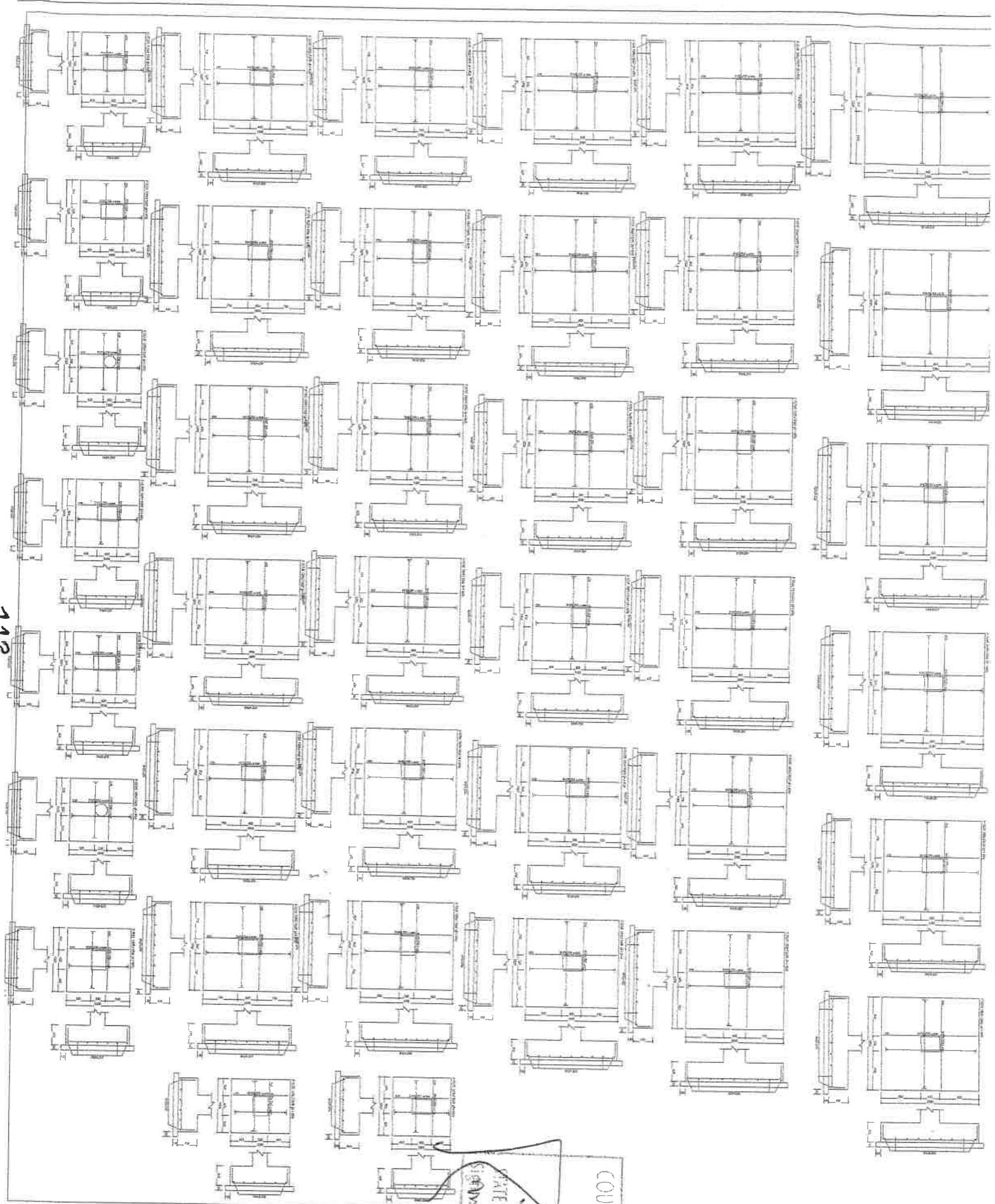
Scale
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PROPOSED CONSTRUCTION TO COMPLETION OF SOLA IT
PAD FOOTINGS

[illegible]

111

112



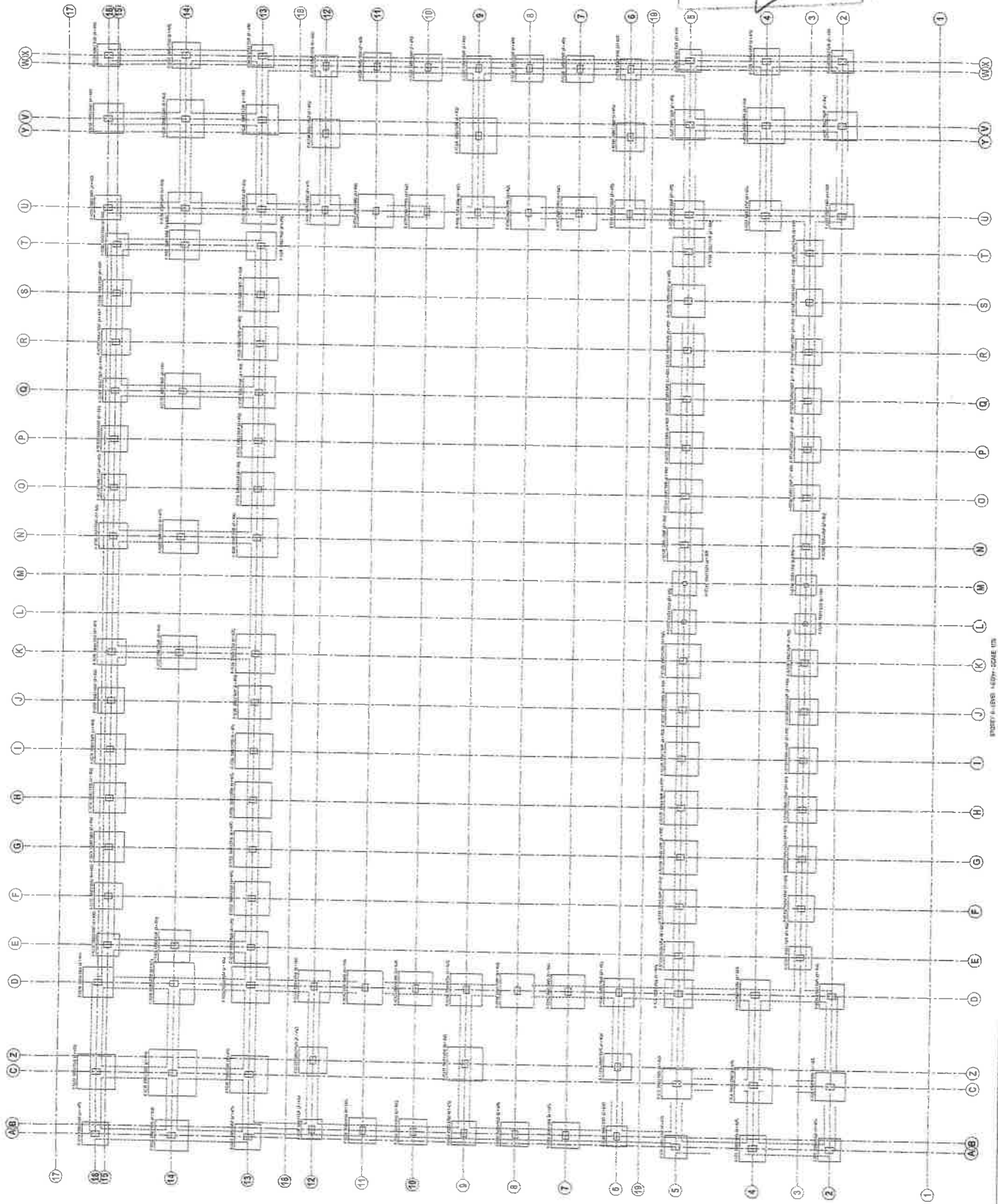
COUNTY PUBLIC WORKS OFFICE
KERICHO

STATE DEPARTMENT FOR PUBLIC WORKS
SIGNATURE

DATE: 10/10/2014
BY: [Signature]

PROPOSED CONSTRUCTION TO COMPLETION OF SQA AT TI
PMD FOOTINGS

NO.	DATE	REVISION
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2	10/10/2014	ISSUED FOR CONSTRUCTION
3	10/10/2014	ISSUED FOR CONSTRUCTION
4	10/10/2014	ISSUED FOR CONSTRUCTION
5	10/10/2014	ISSUED FOR CONSTRUCTION
6	10/10/2014	ISSUED FOR CONSTRUCTION
7	10/10/2014	ISSUED FOR CONSTRUCTION
8	10/10/2014	ISSUED FOR CONSTRUCTION
9	10/10/2014	ISSUED FOR CONSTRUCTION
10	10/10/2014	ISSUED FOR CONSTRUCTION



COUNTY PUBLIC WORKS OFFICER
KERICHO

STATE DEPARTMENT FOR PUBLIC WORKS
KERICHO

Scale:	
Project Date:	
Project No:	
Revision No:	1

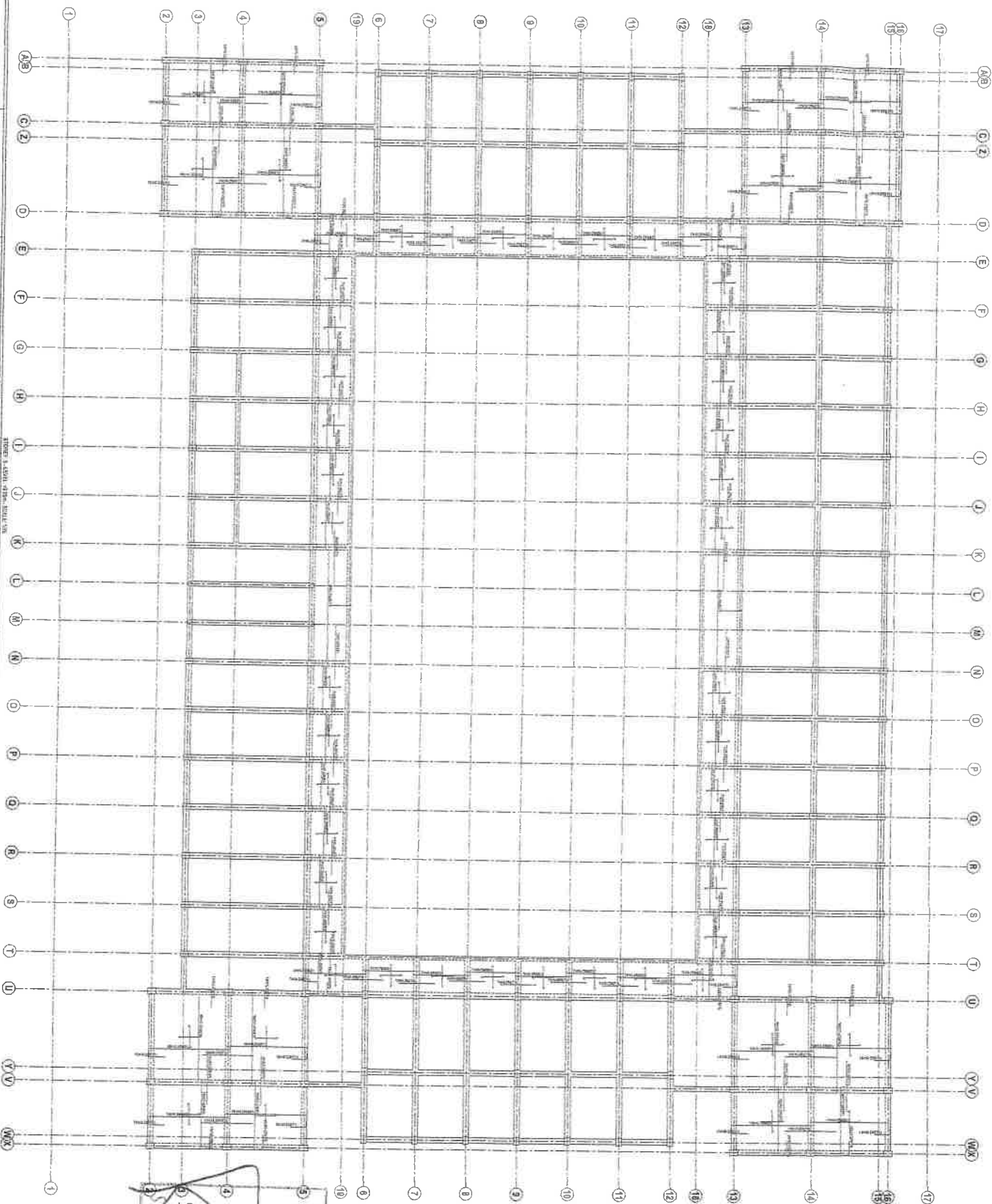
Project Title:
PROPOSED CONSTRUCTION TO COMPLETION OF SOLAI TTC

Client Name: SOLAI TTC

Presented By:
STATE DEPARTMENT FOR PUBLIC WORKS - KERICHO OFFICE

Description

112



Note:

Description

Client Name: SOLATTIC

Project Address:

Project Title:

PROPOSED CONSTRUCTION TO COMPLETION OF SOLATTIC

Presented By:

STATE DEPARTMENT FOR PUBLIC WORKS - KERCHO OFFICE

Emergency: 911 & 911-2

Emergency: 911

Emergency: 911

Scale:

Project Date:

Project No:

Revision No:

COUNTY PUBLIC WORKS OFFICE
KERCHO

STATE DEPARTMENT FOR PUBLIC WORKS



COUNTY PUBLIC WORKS OFFICE
KERICHO
STATE DEPARTMENT FOR PUBLIC WORKS

Scale: 1" = 10'-0" (3048 mm)
1/15

PROPOSED CONSTRUCTION TO COMPLETION OF SOLA T	
COLUMN ELEVATIONS	
Drawn by:	Checked by:
Designed by:	Reviewed by:
Project No.:	Sheet No.:
Project Name:	Project Location:
Project Date:	Project Status: