



# **TENDER DOCUMENTS**

**FOR**

**PROVISION OF CIVIL WORKS AT AIR  
UNIVERSITY SECTOR E-9, ISLAMABAD**

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**INVITATION  
TO  
TENDERERS**

## INVITATION TO TENDERERS

**Address:**

1. Director A&S  
Air University,  
Sector E-9, Islamabad  
Tel: 051-9153250

**Date: July 2026**

**Tender Reference No: IBD/AU/Civil/Works/01/2026**

1. The Employer invites sealed tenders from eligible firms.
2. e-bidding documents as per regulations, containing detailed terms and conditions, specifications and requirements etc. are available for the registered bidders on EPADS at ([www.eprocure.gov.pk](http://www.eprocure.gov.pk)).
3. All tenders must be accompanied by a Tender Security @ 2% of the Tender value and must be delivered/uploaded on abovementioned address at or before 1100 hours, on **09<sup>th</sup> July, 2026**. Tenders will be opened at 1130 hours on the same day in the presence of tenderers/representatives who choose to attend.
4. This is an item/job rate based contract. Firms can apply for one item/job or combination of items/jobs while ensuring that the price of each item/job is firm and independent of the price quoted for other item. If vendors quote for multiple items, the quotations for each item will be evaluated individually for price, and work order will be issued to the lowest Tenderer against each item.
5. Air University reserves the right to reject all Tenders or proposals or cancel the tendering process by giving a notice in this respect in pursuance of Rule 33 of Public Procurement Rules (2004).

**INSTRUCTIONS  
TO TENDERERS  
&  
TENDERING DATA**

# INSTRUCTIONS TO TENDERERS

## GENERAL

The management of Air University (AU) desires to award an item rate-based contract for the Provision of Civil Works at Air University, Islamabad.

### 1 Scope of Tender, Source of Funds & Site Visit

#### 1.1 Scope of Tender

The scope of the works is as under: -

**Civil Works (Renovation, Refurbishment, Amendments, and Restoration of China Block)**

#### 1.2 Source of Funds

Air University has arranged funds from its own resources.

#### 1.3 Site Visit

The Tenderers are advised to visit the sites at Air University main campus E-9 Islamabad to obtain all information that may be necessary for preparing the tender and entering into a contract for execution of the work. All cost(s) in this respect shall be at the Tenderer own expenses.

### 2 Eligible Tenderers

2.1 Tender is open to all contractor's/construction firms who are registered with Pakistan Engineering Council in category C-4 and above and must have previous experience of similar work and have necessary expertise to undertake the stated works as mentioned above. Relevant additional conditions in this regard are given below: -

- a) Never been blacklisted by any Govt organization. Affidavit to this effect shall be furnished.
- b) Never involved in litigation with any agency/Govt Dept. in the last 03 years. Affidavit to this effect shall be furnished.
- c) Must be registered with Income Tax Department.

### **3. INSTRUCTIONS FOR TENDERING & COST OF TENDERING**

3.1 The Tenderers, in addition to the information mentioned in advertisement, are required to submit the requisite details in the form of following format.

- a) The Tenderers are required to submit detail of similar nature of projects completed during last Five years.
- b) Details of Similar Ongoing Projects

#### **3.2 Cost of Tendering**

The Tenderer shall bear all costs associated with preparation and submission of Tender and the AU shall in no case be responsible or liable for those costs, regardless of the conduct or outcome of the tendering process.

## **TENDER DOCUMENTS**

### **4 Contents of Tender Documents**

4.1 The Tender Documents are those stated below, and should be read in conjunction with any Addendum issued in accordance with Clause 6.

1. Instructions to Tenderers & Tendering Data
2. Forms of Tender & Schedules to Tender  
Schedules to Tender comprise the following:
  - (i) Schedule A: Preamble to Schedule of Prices
  - (ii) Special Stipulations
  - (iii) Bill of Quantities
3. Conditions of Contract & Contract Data
4. Standard Forms:
  - (i) Form of Tender Security
  - (ii) Form of Performance Security
  - (iii) Form of Contract Agreement

### **5 Clarification of Tender Documents**

Any Tenderer requiring any clarification(s) in respect of tender documents may notify to Director A&S in writing. The mentioned AU officer will respond to any request for clarification submitted in writing only, which is received at least 05 days before the deadline for the submission of Tenders. Copies of AU response will be forwarded to all Tenderers. (If not already clarified in the tender or deemed necessary for the Tenderers).

## 6 Amendment of Tender Documents

At any time prior to the deadline for submission of Tenders the AU may for any reason, whether at his own initiative or in response to a clarification requested by the Tenderer, modify the tender documents by issuing addendum.

- a) Any addendum thus issued shall be part of the tender documents. To afford Tenderers reasonable time for taking such an addendum into account in preparing their Tenders, the AU may at its discretion extend the deadline for submission of Tenders.

## PREPARATION OF TENDERS

### 7 Language of Tender

- a) Tender documents and all correspondence shall be in English Language.
- b) The Tender shall have a covering letter printed on firm's letter pad.
- c) All pages of the Tender i.e instructions to Tenderers, integrity pact, specifications, contract documents and priced BOQ shall be initiated/signed and official seal be affixed by the person(s) authorized to sign.

### 8 Documents Comprising the Tender

8.1 Each Tender shall comprise a single package containing two separately sealed envelopes against each job. Each envelope shall separately contain the **TECHNICAL PROPOSAL** and **FINANCIAL PROPOSAL**.

- a) The envelopes shall be clearly marked as "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL" in bold and legible letters to avoid confusion.
- b) The envelope marked as **TECHNICAL PROPOSAL** shall contain:-
  - Company profile
  - Bank statement of the firm for the last 01 year
  - Photocopy of Tender Security showing Tender amount as blanked
  - Description and value of each similar project completed during last five years, to be attached as **Appendix "A"**
  - Description and value of each similar ongoing project to be attached as **Appendix "B"**
  - Affidavit that firm is not blacklisted by any Government Department/Civil Agency.
  - Proof of firm's registration with Income Tax Department.
- c) The envelope marked as **FINANCIAL PROPOSAL** shall contain Tender Documents (Priced BOQ, Contract Documents) and Tender security in shape of CDR.

d) Initially, only the envelope marked as “**Technical Proposal**” shall be opened on **09<sup>th</sup> July, 2026**.

- (i) The Financial Tender of only the technically qualified Tenderers will be opened whereas the financial Tenders of non-qualified Tenderers will not be considered and returned unopened to the respective Tenderers.

## **9 Sufficiency of Tender**

9.1 Each tenderer shall satisfy himself before Tendering as to the correctness and sufficiency of his Tender and of the rates and prices entered in the Price Schedule, which shall, except in so far as it is otherwise expressly provided in the Contract, cover all his obligations under the Contract, including all applicable taxes, and all matters and things necessary for the proper completion of the Works.

9.2 The tenderer is advised to obtain for himself at his own cost and responsibility all information that may be necessary for preparing the tender and entering into a Contract for execution of the Works.

## **10 Tender Prices, Currency of Tender and Payment**

10.1 The tenderer shall fill up the Schedule of Prices , indicating the unit rates and prices of the Works to be performed under the Contract. Prices on the Schedule of Prices shall be entered keeping in view the instructions contained in the Preamble to the Schedule of Prices.

10.2 Unless otherwise stipulated in the Conditions of Contract, prices quoted by the tenderer shall remain fixed during the tenderer’s performance of the Contract and not subject to variation on any account.

10.3 The unit rates and prices in the Schedule of Prices shall be quoted by the tenderer in the currency as stipulated in Tendering Data.

## **11. Documents Establishing Tenderer’s Eligibility and Qualifications**

11.1 Pursuant to Clause 8, the tenderer shall furnish, as part of its tender, documents establishing the tenderer’s eligibility to tender and its qualifications to perform the Contract if its tender is accepted.

11.2 Tenderer must possess and provide evidence of the experience as stipulated in Tendering Data.

## **12. Documents Establishing Works Conformity to Tender Documents**

12.1 The documentary evidence of the Works’ conformity to the Tender Documents may be in the form of literature, drawings and data and shall furnish documentation as set out in Tendering Data.

12.2 The tenderer shall note that standards for workmanship, material and equipment, and references to brand names or catalogue numbers, designated by the Employer in the Technical Provisions are intended to be descriptive only and not restrictive.

### **13 TENDER AMOUNT & TENDER SECURITY**

#### **13.1 TENDER AMOUNT**

The Tenderers are required to ensure that Tender amount is firm, final and clearly written/typed without any ambiguity.

- a) The Tenderers are advised not to keep any space for Tender negotiation.
- b) The Tender amount should include all the government taxes including GST (if applicable).
- c) The rates shall be entered against each item in the bill of Quantity (BOQ).
- d) This an item rate based contract, any item against which no rate or price is entered and left blank by the Tenderer, the item shall not be considered in competition for financial evaluation process.
- e) The Tenderer shall be deemed to have obtained all information as to all the requirements thereto which may affect the Tender price.

#### **13.2 TENDER SECURITY / EARNEST MONEY**

The Tenderer shall furnish a tender security/earnest money equivalent to 2% of the total value of Tender in the form of Deposit at call issued by a scheduled bank of Pakistan issued by a scheduled bank of Pakistan based at Islamabad in favor of Air University, Islamabad.

- a) Any Tender not accompanied by an acceptable earnest money shall be rejected by the AU as non-responsive.
- b) The earnest money of the unsuccessful Tenderers will be returned upon award of contract to the successful Tenderer.
  - i) The earnest money of Tenderers, who are not in competition, can be returned earlier at AU discretion upon receiving a request.
- c) The earnest money of the successful Tenderer will be returned when the Tenderer has furnished the required performance security and signed contract agreement.
- d) The earnest money may be forfeited:-

- i) If a Tenderer withdraws his Tender during the period of validity.
- ii) If the Tenderer does not accept the correction (clause-16.4 (b)) of his Tender price.
- iii) In case of the successful Tenderer, if he fails to furnish the required performance security and/or sign the contract agreement within seven days of the issuance of contract award letter.
- iv) **In case the selected Tenderer fails to enter into contract, Air University may award the contract to the next responsive Tenderer on the list.**

## **14 Validity of Tenders, Format, Signing and submission of Tender**

- 14.1 Tenders shall remain valid for a period of 90 days from the date of opening of the Tender.
- 14.2 All Schedules to Tender are to be properly completed and signed.
- 14.3 No alteration is to be made in the Form of Tender except in filling up the blanks as directed. If any alteration be made or if these instructions be not fully complied with, the tender may be rejected.
- 14.4 Each tenderer shall prepare Original and one copy specified in the Tendering Data of the documents comprising the tender as described in Clause 8 and clearly mark them "ORIGINAL" and "COPY" as appropriate. In the event of discrepancy between them, the original shall prevail.
- 14.5 The original and one copy of the tender shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign (in the case of copies, Photostats are also acceptable). This shall be indicated by submitting a written Power of Attorney authorizing the signatory of the tenderer to act for and on behalf of the tenderer. All pages of the tender shall be initialed and official seal be affixed by the person(s) signing the tender.
- 14.6 The Tender shall be delivered in person or sent by registered mail at the address to Employer as given in Tendering Data.

## **15 Deadline for Submission, Modification & withdrawal of Tenders**

### **15.1 Deadline for submission of Tender:**

The Tender shall be delivered in person/registered mail/ courier services so as to reach Directorate of A&S, Admin Block, Air University E-9 Islamabad at or before 1100 hours on **09<sup>th</sup> July, 2026**.

- a) Sealed Tenders shall be received at the A&S office on or before the prescribed time on given date.
- b) Tenders shall be submitted in sealed envelope having necessary information regarding tender notice.

- c) No open, emailed or faxed Tenders will be accepted.
- d) Any Tender submitted after the deadline for tender submission will be returned unopened to such Tenderer.

## **15.2 Modification & withdrawal of Tender**

Following terms will apply for modification or withdrawal of Tender.

- a) Any Tenderer may modify or withdraw his Tender after Tender submission provided that written notice of the modification or withdrawal is received by the concerned officer prior to the deadline for submission of Tenders.
- b) No Tender shall be modified or withdrawn by a Tenderer after the deadline for submission of Tenders.

## **TENDER OPENING AND EVALUATION**

### **16 Tender Opening & Clarification and Evaluation**

- 16.1 The Employer will open the tenders, in the presence of tenderers' representatives who choose to attend, at the time, date and location stipulated in the Tendering Data.
- 16.2 The tenderer's name, tender prices, any discount, the presence or absence of Tender Security, and such other details as the Employer at its discretion may consider appropriate, will be announced by the Employer at the tender opening.
  - i) Any Tender Price or discount which is not read out and recorded at financial tender opening will not be considered in the evaluation of tender.
- 16.3 To assist in the examination, evaluation and comparison of tenders the Engineer/Employer may, at its discretion, ask the tenderer for a clarification of its tender. The request for clarification and the response shall be in writing and no change in the price or substance of the Tender shall be sought, offered or permitted.
- 16.4 (a) Prior to the detailed evaluation, pursuant to Sub-clause 16.7 to 16.9, the Engineer/Employer will determine the substantial responsiveness of each tender to the Tender Documents. For purpose of these Clauses, a substantially responsive tender is one which conforms to all the terms and conditions of the Tender Documents without material deviations.
  - (b) Arithmetical errors will be rectified on the following basis:

If there is a discrepancy between the unit price and total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If there is a discrepancy between the words and figures the amount in words shall prevail. If there

is a discrepancy between the Total Tender price entered in Form of Tender and the total shown in Schedule of Prices-Summary, the amount stated in the Form of Tender will be corrected by the Employer in accordance with the Corrected Schedule of Prices.

If the tenderer does not accept the corrected amount of Tender, his Tender will be rejected and his Tender Security forfeited.

- 16.5 A Tender determined as substantially non-responsive will be rejected and will not subsequently be made responsive by the tenderer by correction of the non-conformity.
- 16.6 Any minor non-conformity or irregularity in a Tender which does not constitute a material deviation may be waived by Employer, provided such waiver does not prejudice or affect the relative ranking of any other tenderers.
- 16.7 The Engineer/Employer will evaluate and compare only the tenders previously determined to be substantially responsive pursuant to Sub-clauses 16.4 to 16.6 as per requirements given hereunder. Tenders will be evaluated for complete scope of works. The prices will be compared on the basis of the Evaluated Tender Price pursuant to Sub-Clause 16.8 herein below.

**(a) Technical Evaluation**

It will examine in detail whether the Works offered by the tenderer complies with the Technical Provisions of the Tender Documents. For this purpose, the tenderer's data submitted with the tender will be compared with technical features/criteria of the Works detailed in the Technical Provisions. Other technical information submitted with the tender regarding the Scope of Works will also be reviewed. Detailed evaluation criteria used to evaluate Tenders for this tender is given at page no.52.

**(b) Commercial Evaluation**

It will be examined in detail whether the tenders comply with the commercial/contractual conditions of the Tender Documents. It is expected that no major deviation/stipulation shall be taken by the tenderers.

**16.8 Evaluated Tender Price**

In evaluating the tenders, the Engineer/Employer will determine for each tender in addition to the Tender Price, the following factors (adjustments) in the manner and to the extent indicated below to determine the Evaluated Tender Price:

- (i) Making any correction for errors pursuant to Sub-Clause 16.4 hereof.

- (ii) Making an appropriate price adjustment for any other acceptable variation or deviation.
- iii) Making an appropriate price adjustment for Deviations in terms of Payments.

## **16.9 Evaluation Methods**

Pursuant to Sub-Clause 16.8, Para (ii), and (iii) following evaluation methods for price adjustments will be followed:

- (i) **Price Adjustment for Technical Compliance**

The cost of making good any deficiency resulting from technical non-compliance will be added to the Corrected Total Tender Price for comparison purposes only. The adjustments will be applied taking the highest price quoted by other tenderers being evaluated in detail in their original Tenders for corresponding item. In case of non-availability of price from other tenderers, the price will be estimated by the Engineer/Employer.

- (ii) **Price Adjustment for Commercial Compliance**

The cost of making good any deficiency resulting from any quantifiable variations and deviations from the Tender Schedules and Conditions of Contract, as determined by the Engineer/Employer will be added to the Corrected Total Tender Price for comparison purpose only. Adjustment for commercial compliance will be added to the Corrected Total Tender Prices.

- (iii) **Price Adjustment for Deviation in Terms of Payments refer to Tendering Data.**

## **17 PROCESS TO BE CONFIDENTIAL**

No Tenderer shall contact AU on any matter relating to its tender from the opening of Tender till the award of contract.

## **AWARD OF CONTRACT**

### **18. Post-Qualification**

18.1 In the absence of pre-qualification, the tender committee will determine to its satisfaction whether the substantially responsive, lowest evaluated Tenderer is qualified to satisfactorily perform the order.

18.2 The determination will take into account the Tenderer's financial and technical proposals. It will be based upon an examination of the documentary evidence and physical inspection of few completed/ ongoing projects as well as such other information as the committee deems necessary and appropriate.

## **19 AWARD CRITERIA & AU'S RIGHT**

19.1 The contract will be awarded to substantially responsive lowest evaluated Tenderer, provided that such Tenderer has been determined to be qualified to satisfactorily perform the order.

19.2 The AU reserves the right to accept or reject any or all the Tenders prior to award of order without thereby incurring any liability to the affected Tenderers or any obligation to inform the affected Tenderers of the grounds for the AU's action.

## **20 Notification of Award & Signing of Contract Agreement**

20.1 Prior to expiry of the period of tender validity prescribed by the Employer, the Employer will notify the successful tenderer in writing ("Letter of Acceptance") that his tender has been accepted.

20.2 Within 07 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send the successful tenderer the Form of Contract Agreement provided in the Tender Documents, incorporating all agreements between the parties.

20.3 The formal Agreement between the Employer and the successful tenderer shall be executed within 07 days of the receipt of Form of Contract Agreement by the successful tenderer from the Employer.

## **21 PERFORMANCE SECURITY**

21.1 The Bid security will not returned to Successful tenderer, Bid security will consider as Performance security which will release after successful completion of DLP.

21.2 Failure of the successful Tenderer to comply with the requirements of sub-clauses 20.2 & 20.3 or clause 21 shall constitute sufficient grounds for the annulment of the award and forfeiture of the tender security.

## **22 ADHERENCE TO INTEGRITY PACT**

Government of Pakistan has announced that integrity pact duly signed by the Tenderer shall be part of the contract. The same is contained in the contract documents.

a) Any effort by a Tenderer to influence AU n the tender evaluation, Tender comparison or award decision may result in the rejection of his Tender.

## **23. UNBALANCED TENDER**

If the Tender of the successful Tenderer is seriously unbalanced, the Employer may require that the amount of the Performance Security be increased at the expense of the Tenderer to a level sufficient to protect the Employer against financial loss in the event of a subsequent default by the Tenderer under the Contract.

## **24 Tender Drawings/Specification**

The Employer reserves the right to make any additions, alterations or modifications in the Drawings, if any, or the Specification at any time in the best interest of the Works.

## **25 SUPPLEMENTARY INFORMATION**

25.1 Each Tenderer shall submit the following supplementary information along with his Tender:

- a) A preliminary construction schedule showing the construction program for various activities proposed by the Tenderer for execution of the Works from commencement of mobilization to completion. The schedule, in reasonable detail, shall show the sequence of various constructional operations proposed and the period of time estimated for performing each activity within the Time for Completion of the Works.
- b) A chart of the organization which he proposes to create for the satisfactory execution of the Works.
- c) Among others, the organization chart must show at least one engineer holding at least a diploma and five years' experience in similar kinds of jobs as the proposed Works. Such a person, to be approved by the Consultant, shall provide full time site supervision of the Works.

25.2 Tenderers shall give with their Tenders, the address at which notices may validly be served on them.

## **26. ACCEPTANCE CERTIFICATE: -**

The contractor may notify the Engineer, when he considers that the works have been complete. Upon such notification from contractor, the Engineer will arrange inspection within 15 days and issue an acceptance certificate in favour of contractor subject to satisfactory completion as per requirement of contract. Alternatively the Engineer will notify the contractor, that the work is not fully completed and contractor will rectify the discrepancies.



**ONGOING WORKS**

Description	Client Deptt / Agency	Project Value	Commencement Date	Completion Date	%age Completed	Photocopy of work order attached as annex	Name, Designation, Phone & Email of Controlling Officer

**Note-1:-** Raising of this form is mandatory. Noncompliance would lead to technical disqualification.  
**Note-2:-** The Employer reserves the right to verify above stated details and disqualify the firm at any stage before awarding the contract on providing unauthentic information.  
**Certificate:** I hereby certify that the above details have been read, understood, filled properly & signed as authentic information:-

**Authorized Signature, Name & Official Seal of the Tenderer:** \_\_\_\_\_

# **INTEGRITY PACT**

**DECLARATION OF FEES, COMMISSIONS AND BROKERAGE ETC  
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES AND WORKS**

\_\_\_\_\_ The Tenderer/contractor hereby declares its intention not to obtain or induce the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency thereof or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing, the Tenderer/contractor represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever for from GoP, except that which has been expressly declared pursuant hereto.

The Tenderer/contractor certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[The seller/Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, the Tenderer/contractor agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Tenderer/contractor as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Signature\_\_\_\_\_

Name\_\_\_\_\_

Designation\_\_\_\_\_

Company\_\_\_\_\_

Date\_\_\_\_\_

## TENDERING DATA

### Instructions to Tenderers

#### Clause Reference

#### 1.1 Name of Employer

Vice Chancellor, Air University Sector E-9, Islamabad  
Tel No: 051-9153232 Fax No: 051-9260158

#### Brief Description of Works

**Civil Works (Renovation, Refurbishment, Amendments, and Restoration of China Block)**

#### 5.1 Employer's address:

Air University Sector E-9, Islamabad  
Tel No: 051-9263207 Fax No: 051-9260158

10.3 Tender shall be quoted entirely in Pak. Rupees. The payment shall be made in Pak. Rupees.

11.2 The tenderer has the financial & technical capability necessary to perform the Contract.

#### 13.1 Amount of Tender Security @ 2% of the Tender value

#### 14.1 Period of Tender Validity

90 days from the date of opening

#### 14.4 Number of Copies of the Tender to be submitted

One original plus one copy.

#### 14.5 (a) Employer's Address for the Purpose of Tender Submission

Directorate of A&S, Admin Block, Air University Sector E-9  
Islamabad

#### (b) Name and Identification Number of the Contract

Tender for Contract No. IBD/AU/Civil/Works/01/2026

#### (c) Warning

DO NOT OPEN BEFORE 1130 hrs 09<sup>th</sup> July, 2026.

**15.1 Deadline for Submission of Tenders**

1100 hrs on **09<sup>th</sup> July, 2026**

**16.1 Venue, Time, and Date of Tender Opening**

Venue: Air University, Sector E-9 Islamabad

Time: 1130 hrs

Date: **09<sup>th</sup> July, 2026**

**16.4 Responsiveness of Tenders**

- (i) The Tender is valid till required period,
- (ii) The Tender prices are firm during currency of contract
- (iii) Completion period offered is within specified limits,
- (iv) The Tenderer is eligible to Tender and possesses the requisite experience,
- (v) The Tenderer does not deviate from basic technical requirements.

## **FORMS OF TENDER AND SCHEDULES TO TENDER**

**SCHEDULE – TO TENDER**

**FORM OF TENDER**

(LETTER OF OFFER)

Tender Reference No. \_\_\_\_\_

\_\_\_\_\_

(Name of Works)

To:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Gentlemen,

1. Having examined the Tender Documents including Instructions to Tenderers, Tendering Data, Conditions of Contract, Contract Data, Specification, Drawings, if any, Schedule of Prices and Addenda Nos. \_\_\_\_\_ for the execution of the above-named Works, we, the undersigned, offer to execute and complete such works and remedy defects therein in conformity with conditions of contract. Specifications, Drawings, Bill of Quantities and addenda for the sum of Rupees

\_\_\_\_\_

(Rs. \_\_\_\_\_)

or such other sum as may be ascertained in accordance with the said conditions.

2. We understand that all the Appendices/Schedules attached hereto form part of this Tender.
3. As security for due performance of the undertakings and obligations of this Tender, we submit herewith a Tender Security in the amount of Rs. \_\_\_\_\_ drawn in your favour or made payable to you and valid for a period of 90 days beyond the period of validity of Tender.
4. We undertake, if our Tender is accepted, to commence the Works and to deliver and complete the Works comprised in the Contract within the time(s) stated in **Schedule A(I)** to tender.

5. We agree to a Tender by this Tender for the period of 90 days from the date **fixed for receiving the same and** it shall remain binding upon us and may be accepted at any time before the expiration of that period.
6. Unless and until a formal Agreement is prepared and executed, this Tender, together with your written acceptance thereof, shall constitute a binding contract between us.
7. We undertake, if our Tender is accepted, to execute the Performance Security referred to in Conditions of Contract for the due performance of the Contract.
8. We understand that you are not bound to accept the lowest or any Tender you may receive.
9. We do hereby declare that the Tender is made without any collusion comparison of figures or arrangement with any other person or persons making a Tender for the Works.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ Signature \_\_\_\_\_  
 in the capacity of \_\_\_\_\_ duly authorized to sign tenders for and  
 on \_\_\_\_\_ behalf \_\_\_\_\_ of

\_\_\_\_\_  
 (Name of Tenderer in Block Capitals)

Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Witness: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SCHEDULES TO TENDER**



**PREAMBLE TO SCHEDULE OF PRICES**

**1. General**

- 1.1 The Schedule of Prices shall be read in conjunction with the Conditions of Contract, Contract Data together with the Specification and Drawings.
- 1.2 The Contract shall be item rate based contract as described in the Tender Documents.

**2. Description**

- 2.1 The general directions and descriptions of works and materials are not necessarily repeated nor summarized in the Schedule of Prices. References to the relevant sections of the Tender Documents shall be made before entering prices against each item in the Schedule of Prices.

**3. Units & Abbreviations**

Units of measurement, symbols and abbreviations expressed in the Tender Documents shall be following:

Area in Square feet (Sft)  
Volume in Cubic Feet (Cft)  
Length in Running feet (Rft)  
Quantities (Nos.)

**4. Rates and Prices**

- 4.1 Except as otherwise expressly provided under the Conditions of Contract, the rates and amounts entered in the Schedule of Prices shall be the rates at which the Contractor shall be paid and shall be the full inclusive value of the works set forth or implied in the Contract; except for the amounts reimbursable, if any to the Contractor under the Contract.
- 4.2 Unless otherwise stipulated in the Contract Data, the rates and prices entered by the tenderer shall not be subject to adjustment during the performance of the Contract.
- 4.3 All duties, taxes and other levies payable by the Contractor shall be included in the rates and prices.

## SCHEDULE – A TO TENDER

- 4.4 The cost of complying with the provisions of the Contract shall be included in the items provided in the Schedule of Prices, and where no items are provided shall not be consider for financial evaluation process.
- 4.5 (a) The tenderer shall be deemed to have obtained all information as to and all requirements related thereto which may affect the tender price.
- (b) The Contractor shall be responsible to make complete arrangements for the transportation of the Plant/Machinery to the Site.
- 4.6 The Contractor shall provide for all parts of the Works to be completed in every respect. Notwithstanding that any details, accessories, etc. required for the complete installation and satisfactory operation of the Works, are not specifically mentioned in the Specifications, such details shall be considered as included in the Contract Price.

### **5. Tender Prices**

#### 5.1 Break-up of Tender Prices

Various elements of Tender Prices shall be quoted as detailed by the Employer in the format of Schedule of prices.

The tenderer shall recognize such elements of the costs which he expects to incur the performance of the Works and shall include all such costs in the rates and amounts entered in the Schedule of Prices.

**SCHEDULE-A-I TO TENDER**

**SPECIAL STIPULATIONS**  
**(To be signed by the Tenderer)**

<b>S #</b>	<b>Subject</b>	<b>Clauses of the contract</b>	<b>Provision</b>
1	Amount of Performance Security	4.4	NA
2.	Time for Completion of Works	8.1	180 days from the date of issuance of work order
3.	Liquidated Damages	17	0.10% for each day of delay in completion of the works subject to a maximum of 10% of contract price stated in the letter of Acceptance.
4.	Defects Liability Period	8.3	180 days from the effective date of Taking over Certificate.
5	Time within payments to be made	11.2	Within 30 days from the date of the submission of the Bill by the contractor.
6.	Percentage and Limit of Retention Money	11.3	5% of the Contract Price
7	Release of Retention Money	11.3	At the end of defects liability period
<b>WITNESS:</b>		<b>TENDERER:</b>	
Signature		Signature	
Name		in the capacity of	
Address		duly authorized to sign tender on behalf of with its registered office at	

**SCHEDULE-A-II TO TENDER**

**BILL OF QUANTITIES**

**PROVISION OF CIVIL WORKS AT AIR  
UNIVERSITY MAIN CAMPUS ISLAMABAD**

## CONSTRUCTION OF CLEAN ROOM AIR UNIVERSITY E-9 ISLAMABAD

### BILL OF QUANTITIES (Un-Priced)

Sr.No	Description	Qty	Unit	Rate	Amounts (R.S)
<b>1</b>	<b>Clearing the Site</b>				
	Clearing jungle by cutting, removing all shrubs, trees, upto 6 inches girth, etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless material out of project including the layout of the building. as directed by the Engineer Incharge.	6500.00	S ft		-
	Removing of Existing Prefab structure with sandwich panels complete, dismantling of floors with floor tiles, wooden partitions, ceiling, electric lights, ac's Serviceable Items shall safely hand over to client and disposed off debris out of University premises.	1.00	J o b		-
<b>2</b>	<b>Excavation and Backfill</b>				
	Excavation in all kind of soil upto required depth 1.5m for foundation of buildings, drains etc. and stacking of excavated material at one chain clear of edge of excavation, after excavation leveling and compacting and (TPT) test including timbering shoring if required, including back filling in 9" layers & compaction as specified and disposal of surplus excavated material out of project area up to any lead or as directed by the Engineer Incharge.	11183.75	C ft		-
<b>3</b>	<b>Termite Proofing</b>				
	Providing and carrying out termite proofing by spraying anti-termite liquid FMC/ Biflex/ Teminex Exin/ Ms Haxter or equivalent mixed with water in the specified ratio and as per instructions of the manufacturer, under floors over the filling and all peripheral sides of the trenches for foundation, basement as directed by Engineer Incharge.	5000.00	S ft		-
<b>4</b>	<b>Plain Cement Concrete</b>				

	Providing, and laying cement concrete not leaner than (1:4:8) using screened Margalla crushed stone graded aggregate 1 inch and down gauge in foundations, having a minimum cylinder crushing strength of 1500 Psi at 28 days including cost of gauge polythene sheet, form work and its removal, compacting, leveling and curing etc. complete as directed by the Engineer Incharge.	3677.40	C ft	-
<b>5</b>	<b>R.C.C Work (3000 Psi)</b>			
	Providing, and laying reinforced cement concrete employing steel formwork using Margalla crushed stone graded aggregate 3/4 inch and down gauge having a minimum cylinder crushing strength of 3000 psi at 28 days with a batching plant mix not leaner than (1:2:4) including cost of form work and its removal, compacting, levelling and curing etc. but excluding the cost of reinforcement,complete in all respect as directed by the Engineer Incharge.			
	a) Footing	4150	C ft	-
	b) Plinth beam	552.5	C ft	-
	c) Roof Beams/slab	13256.00	C ft	-
	d) RCC Stair/Landing	550.00	C ft	-
	E) Beam at mid-level (at 8.00 feet hight)	2150.00	C ft	-
<b>6</b>	<b>R.C.C Columns (4000 Psi)</b>			
	Providing, and laying reinforced cement concrete in columns employing steel formwork using Margalla crushed stone graded aggregate 3/4 inch and down gauge having a minimum cylinder crushing strength of 4000 psi at 28 days with a batching plant mix not leaner than (1:1-1/2:3) including cost of form work and its removal, compacting, levelling and curing etc. but excluding the cost of reinforcement,complete in all respect as directed by the Engineer Incharge.	3018.75	C ft	-
<b>7</b>	<b>REINFORCEMENT</b>			

	Providing and laying M.S deformed steel reinforcement bars with minimum yield stress of 415 Mpa (ASTM 615 Grade-60) with and including the cost of all such over laps as are not shown over drawings straightening , cutting, bending, binding, wastage, & chairs complete in all kinds of R.C.C work or as directed by the Engineer Incharge.	69.44	M T o n		-
<b>8</b>	<b>Brick Masonry</b>				
	Providing and laying first class solid burnt brick masonry, set in cement mortar (1:5) in straight or curved wall 9”to 13 ½ thick including scaffolding, formwork and its removal, raking out joints and curing etc. complete in all respect or as directed by the Engineer in charge .	11175.00	C ft		-
<b>9</b>	<b>Brick Masonry</b>				
	Providing and laying first class solid burnt brick masonry, set in cement mortar (1:4) in straight or curved wall 4½” thick including scaffolding, formwork and its removal, raking out joints and curing etc. complete in all respect or as directed by the Engineer in charge	1596.00	C ft		-
<b>10</b>	<b>Internal Plaster</b>				
	Providing 1/2" thick cement plaster (1:4) on soffits of cantilever slabs, sides and soffits of beams, slabs and R.C.C wall etc., in any floor including making edges, corners, curing and scaffolding etc.,including cost of chicken mesh 18 SWG with Steel nails over all joints of walls with columns, beams and slab, complete as directed by the Engineer Incharge.	24900.00	S ft		-
<b>11</b>	<b>External Plaster</b>				
	Providing 3/4" mm thick cement plaster (1:3) 13mm thick each layer with groves on soffits and external surfaces etc., in any floor including making edges, corners, curing and scaffolding etc, including cost of chicken mesh 18 SWG with nails over all joints of walls with columns, beams and slab, complete as directed by the Engineer Incharge.	13950.00	S ft		-
<b>12</b>	<b>Porceline Tiles</b>				

	Providing and fixing of light coloured, glazed /non skid vitrified porcelain tiles master (600mm x600mm x13mm) on walls and floor with dry bond (Stile bond) approved over base of 1" thick cement sand mortar (1:3) including jointing to tiles with joint filler of approved quality in matching colour as per direction of Engineer-in-charge.	13100.00	S ft	-
<b>13</b>	<b>Granite on External steps</b>			
	Providing and fixing best quality pre-chemical polished Granite marble slabs of treads & riser of approved colour and best quality on stairs, with under coat (1:3) cement sand mortar bed including making of nosing, cutting, grinding and , complete in all respects, as per drawing or as directed by the Engineer Incharge.			
	1inch Thick Tread	300.00	S ft	-
	1/2"inch Thick Riser	136.00	S ft	-
<b>14</b>	<b>Sand filling under floor</b>			
	Supplying and filling sand under floor as instructions of the Engineers incharge.	1895.00	C ft	-
<b>15</b>	<b>PCC 1:2:4 under floor</b>			
	Providing and laying under floors of 2" thick (1:2:4) cement concrete using graded screened bajri 3/4" and down, laid in panels including consolidation, finishing, and curing etc.Complete in all respects, & directed by the Engineer Incharge.	16435.00	S ft	-
<b>16</b>	<b>Terrazzo Flooring</b>			
	Providing and laying Terrazo work in floors having 3/4" thickness Terrazo mosaic flooring using one part cement and two parts white marble chips of 4 to 9 Nos. over not exceeding 4' x 4' with marble dividing strip i/c curing, grinding, rubbing chemicals polishing etc. complete in all respects and as directed by the Engineer Incharge.	2320.00	S ft	-
<b>17</b>	<b>Terrazzo (Skirting)</b>			
	Providing and laying Terrazo skirting 6" wide having 1/2" thickness Terrazo mosaic using one part cement and two parts white marble chips of 4 to 9 Nos. i/c curing, grinding, rubbing and polishing etc. complete in all respects and as directed by the Engineer Incharge.	120.00	S ft	-

<b>18</b>	<b>Plastic Emulsion</b>				
	Painting with (ICI/Nippon or approved equivalent) semi plastic emulsion paint of approved shade two coats over primer applied over putty filled surface prepared with sand papering including the cost of one priming coat complete in all respect over plastered surface on walls and ceiling etc. at any height and any floor or as directed by the Engineer Incharge.	15562.50	S ft		-
<b>19</b>	<b>Weather shield</b>				
	Painting three coats of weather shield paint (ICI /Nippon or approved equivalent) of approved shade on plastered surface (external) including the cost of cleaning the surface, sand papering etc.projection soffits complete upto at any height in any floor or as directed by the Engineer Incharge.	10500.00	S ft		-
<b>20</b>	<b>Face Gutka</b>				
	Providing and laying fair face Gutka (2-1/4" x 2-1/4" x 9") cladding laid in(1:2)cement / red posso mortar having 1/4" thick groove finish i/c cost of 8 SWG wirein shape of 8 placed horizontally and vertically at 36" and 18" c/c respectively i/c cutting charges as per approved drawing,complete in all respect as approved and directed by the Engineer Incharge	4062.50	S ft		-
<b>21</b>	<b>Aluminium Windows (Double glazed)</b>				
	Providing and fixing 2 mm thick Double glazed aluminium windows of anodize / powder coated partly fixed and party sliding using deluxe section of 100mm x 40mm x2 mm using frameat bottom, (70502) at Top & Side made of Pakistan Cables/Alcop mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides mm (70505) at center and 35mm x 60mm x2 mm(70503) at sides fixing one side Tinted and one side clear double glazed (5mm thick ) and air tight using double tape, chemical strips, Silicon using approved latches, wheels for channel, stopper, brush channel angle joint and hardware etc.including aluminum fly proof net. Complete in all respect as approved and directed by the Engineer Incharge	1050.00	S ft		-
<b>22</b>	<b>Wooden Panel Door</b>				
	Providing and fixing 1-1/2 inches thick best quality 1st class Oak wood frame with panled glass complete with polishing, fixing of hardware with best quality oak wood customized bedding 3" wide complete in all respect.	619.50	S ft		-
<b>23</b>	<b>Stainless Steel Railing</b>				

	Providing Stainless Steel Railing of stain less steal pipe rails and posts up to 7.5cm dia,100cm in height,and fixing with sunken iron screws and rawal plugs of best quality on steps of internal stairs and external Steps as shown in the drawing or as approved by the Architect/ Engineer Incharge.( 2"dia s/s pipe posts at alternate step with 3/4 dia intermediate pipes.	425.00	S ft	-
<b>24</b>	<b>False Ceiling</b>			
	P/fixing gypsum board ceiling tiles, Korean,Chinese or approved equivalant (aluminium), 600 mm x 600mm panels, including aluminum T & aluminum angles 25mm x 25mm x 1mm including clips, GI wire effective suspension system etc, or as directed by the Engineer Incharge.	6500.00	S ft	-
<b>25</b>	<b>Granite on internal Stairs</b>			
	Providing and fixing best quality pre-chemical polished Granite marble slabs of treads & riser of approved colour and best quality on stairs, with under coat (1:3) cement sand mortar bed including making of nosing, cutting, grinding and , complete in all respects, as per drawing or as directed by the Engineer Incharge.			
	1" Thick Tread	350.00	S ft	-
	1/2" Thick Riser	176.00	S ft	-
<b>26</b>	<b>Glass partition wall (12mm thick)</b>			
	Providing and fixing aluminium glazed partition of anodized /powder coated using section of M/s. Al-Cop/ Pakistan Cable or approved equivalent manufacturer, having 2 mm thick Frame size D48-A , i/c 12 mm Tempered glass with sand blasting and edge polishing i/c the cost of tear resistance film,rubber gasket and hardware etc and including this floor hinges complete in all respect as approved and directed by the Engineer Incharge	280.00	S ft	-
<b>27</b>	<b>Steel grill for window</b>			
	Providing and fixing M.S. flat 1/2"x1/8" (13mm x 3mm) grill including 3/4" x 1/8" (20 mmx3 mm) M.S. flat frame, in windows of approved design, including painting three coats, complete in all respects.	1050.00	S ft	-
<b>28</b>	<b>Window Marble Sills</b>			

	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities/ Shelves/ Treads/ WindowCills, having Uniform texture (Spotless)with adhesive bond over 3/4" thick (1:2)cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge. (China Verona )	130.00	S ft	-
<b>29</b>	<b>Drain Pipe</b>			
	Providing and fixing best quality 6" (100 mm) dia UPVC rain water down pipe with three clamps in 10ft pipe length, fixed on wall including cutting and jointing as per standard practice and drawings, complete in all respects and as directed by the Engineer Incharge.	132.00	R ft	-
<b>30</b>	<b>False Ceiling</b>			
	Providing & fixing Gypsum board size 2'x2' with water proffing layer back side of sheet,ceiling as mentioned in the drawings,with complete fixing mechanism as required in places, with male female edges, v-joints, et. Contractor to submit brochures, samples & shop drawings for the approval of the consultant. all edges to be properly sealed ,A/C & other services where required, complete in all respects.	4698.00	S ft	-
<b>31</b>	<b>PCC in Footpaths</b>			
	Providing and fixing precast Edge Kerb Stone (4"to6" thick), of 3500PSI Compressive Strength, embeded in PCC 1:2:4 over leanconcrete 1:4:8 etc complete in all respect. Size 18"x12"x6" including paint.	320.00	R ft	-
<b>32</b>	<b>Tuff Paver</b>			
	Providing and laying Tuff Pavers (60mm Thick), having 7000PSI, crushing strength of approved manufacturer, over 2"to3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect. Design as per Drawings are as per directed by Engineer's incharge	2175.00	S ft	-
<b>33</b>	<b>Membrane</b>			
	Providing and Application of Torch applied Bitumen Membrane of Roofgrip 3mm thick, aluminum foil coating and water proof layer complete top roof including over lapping on parapet wall upto 2'height also protect water collectio points complete work shall done as per engineering standards and as per client satisfaction.	6500.00	S ft	-

34	Providing and Installation of 3/4" thick Sunny white marble slabs length upto 4Rft with polish and Gola fix with cement bond (S tile) on top of parapit walls complete in all respect.	390.00	R ft		
	<b>TOTAL</b>				-
<b>ELECTRICAL AND IT WORKS (B.O.Q)</b>					
<b>BOQ (Un Priced)</b>					
Item	Description	Unit	Qty	Rate	Amount <sup>A</sup>
1	2	3	4	5	6
	<b>ELECTRICAL WORKS</b>				
	<b>SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF THE FOLLOWING ITEMS, COMPLETE IN ALL RESPECTS , APPROVED BY THE ENGINEER INCHARGE .</b>				
<b>A)</b>	<b>WIRING</b>				
<b>EA-01</b>	<b>Circuits Wiring</b>				
	Wiring in conduit surface, concealed, flame proof, with single core PVC insulated cable, installed and connected complete (excluding conduit) single core cable, 2.5 mm <sup>2</sup> , supply and fixing.	Metre	550		-
	PVC conduit, 20 mm dia, complete with all bends, tees, boxes, saddles etc for Surface wiring, and concealed wiring, supply and fixing.	Metre	322.0		-
<b>EA-02</b>	<b>Point Wiring</b>				
	One fan point or one light point or one bell point, controlled by one switch, wiring complete, with PVC single core cable 1.5 mm <sup>2</sup> , in Concealed PVC conduit, supply and fixing.	Point	71		-
	Add for each additional light point, bell point on same switch circuit/ additional circuit, controlled by more than one push switch, wiring complete with PVC single core cable 1.5 mm <sup>2</sup> in Concealed PVC conduit, stove enamelled, supply and fixing.	Point	71		-
	One light point controlled by two way switch, wiring complete with PVC single core cable 1.5 mm <sup>2</sup> Concealed PVC conduit, supply and fixing.	Point	10		-
					-
	Add for each additional light point on same switch 2 way circuit, wiring complete with PVC single core cable 1.5 mm <sup>2</sup> in Concealed PVC conduit, supply and fixing.	Point	5.00		-
					-
<b>EA-03</b>	<b>Socket Wiring</b>				
	<b>POWER PLUG FOR EQUIPMENTS</b>				
	Wiring in conduit surface, concealed, flame proof, with single core PVC insulated cable, installed and connected complete single core cable, 2.5 mm <sup>2</sup> , supply and fixing.	Metre	453		-

	Wiring in conduit surface, concealed, flame proof, with single core PVC insulated cable, installed and connected complete single core cable, 4 mm <sup>2</sup> , supply and fixing.	Metre	302	-
	PVC conduit, 25 mm dia, complete with all bends, tees, boxes, saddles etc for Surface wiring, and concealed wiring, supply and fixing.	Metre	252	-
	<b>LIGHT PLUG</b>			-
	<b>From DB to First Point</b>			-
	Wiring in conduit surface, concealed, flame proof, with single core PVC insulated cable, installed and connected complete single core cable, 4 mm <sup>2</sup> , supply and fixing.	Metre	482.78	-
	PVC conduit, 25 mm dia, complete with all bends, tees, boxes, saddles etc for Surface wiring, and concealed wiring, supply and fixing.	Metre	268.22	-
				-
	<b>From Point to point</b>			-
	Wiring in conduit surface, concealed, flame proof, with single core PVC insulated cable, installed and connected complete (excluding conduit) single core cable, 2.5 mm <sup>2</sup> , supply and fixing.	Metre	346.50	-
	PVC conduit, 20 mm dia, complete with all bends, tees, boxes, saddles etc for Surface wiring, and concealed wiring, supply and fixing.	Metre	115.50	-
	<b>SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF THE FOLLOWING ITEMS, COMPLETE IN ALL RESPECTS, APPROVED BY THE ENGINEER INCHARGE .</b>			-
<b>B)</b>				-
<b>EB-01</b>	<b><u>SWITCHES &amp; SOCKETS</u></b>			-
	<b>Gang Switch Series Premium</b>			-
	One gang switch, 10A, 250 V, complete, including PVC/steel back box with proper screws, supply & fixing.	Each	10	-
	Same as item 24-801, but Two gang switch.	Each	3	-
	Same as item 24-801, but Three gang switch.	Each	4	-
	Same as item 24-801, but Four gang switch.	Each	2	-
	Same as item 24-801, but Six gang switch.	Each	2	-
	Same as item 24-801, but One gang switch 2 way, 10 A, 250 V.	Each	2	-
	Gang Telephone / data socket shuttered, including PVC/steel back box with proper screws complete, supply & fixing.	Each	12	-
				-
<b>EB-02</b>	<b><u>FITTINGS &amp; FIXTURES</u></b>			-
	<b><u>LED BATTEN LIGHT</u></b>			-

	LED Batten light, dust ,smoke and water proof. Ip 65, 4 feet, 36 watt 220/240 volts for wall or ceiling mounted approved type Standard, Supply and fixing.	Each	12.00	-
				-
	<b>LED 2X2 Led Panel 36 watt</b>			-
	Providing, Installation, Testing & Commissioning of recessed 36 Watts (2 x 2) LED Panel 3600 lm, 4000 K, 25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.	Each	44.00	-
	<b>LED 2X2 Led Panel 40W (LAB AREA)</b>			-
	Providing, Installation, Testing & Commissioning of recessed 40 Watts (2 x 2) LED Panel, specifically designed for clean room ,4000 lm, 4000 K, CRI>90, UGR19 , 98 lm/W Light including DALI driver, Class A, luminaire is equipped with serviceable parts (when applicable): LED board, driver, control units, surge protection device, optict, 50000 hours life cycle, Mech. impact protection code IK07 2 J reinforced , including connection, complete in all respect as approved by the Engineer Incharge.	Each	41.00	-
	<b>LED Downlight Lights</b>			-
	LED Down light, 18 watts, 220/240 volts, approved type, Standard. Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	15.00	-
				-
	<b>Fan Works</b>			-
	Cassette type pak or Eq fan 2' x 2' with copper winding & remote control, including connection, provision of cable best quality supply and fixing.	Each	45.00	-
	<b>Wall Mounted Indoor Light</b>			-
	LED Wall Mounted light, 18 watts, 220/240 volts, approved type, Standard including all accessories. Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	6.00	-
	<b>Wall Mounted outdoor Light</b>			-
	LED Wall Mounted light, 18 watts, 220/240 volts, approved type, Standard, including all accessories. It must be water and dust proof , ip 65 , suitable for outdoor use, Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	6.00	-
	<b>LIGHT PLUG</b>			-

	Providing, Installation, Testing & Commissioning of 13 Amps Three Pin Universal Socket . Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	50.00	-
	<b>Industrial Socket</b>			-
	Providing, Installation, Testing & Commissioning of 16 Amps Three Pin industrial socket . Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	8.00	-
	<b>Industrial Socket</b>			-
	Providing, Installation, Testing & Commissioning of 25 Amps 3/5 Pin industrial socket . Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	4.00	-
	<b>Industrial Socket</b>			-
	Providing, Installation, Testing & Commissioning of 32 Amps 3/5 Pin industrial socket . Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	3.00	-
	<b>Industrial Socket</b>			-
	Providing, Installation, Testing & Commissioning of 63 Amps 3/5 Pin industrial socket . Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	2.00	-
				-
	<b>Power plug</b>			-
	Providing, Installation, Testing & Commissioning of 16 Amps Power socket . Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	22.00	-
	<b>LIGHT PLUG</b>			-
	Providing, Installation, Testing & Commissioning of 13 Amps Three Pin Universal Socket . Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	20.00	-
				-
	Providing, Installation, Testing & Commissioning of 15 Amps duplex socket. Supply and fixing, including connection, complete in all respect as approved by the Engineer Incharge.	Each	10.00	-
<b>EC-01</b>	<b>Distribution Board</b>			-

	LT Panel without MCCB, etc complete with digital Ampere, volts meters, Selector switches, Indication lamps, 3 x current transformers, cable Gland, copper bus bar, 3 phase and neutral link, including proper nuts and bolts with spring washers mounted on proper insulator, Electrical interlocking, steel sheet powder coated 3 mm thick, switch for operation on 3 phase, 4 wire, 50 cycles 400-600 volts, 300 Amps. Supply & Fixing.	Each	1	-
	<b>INCOMING</b>			-
	1x300 AMP, TP, MCCB, 50KA with O/L & S/C Protection.	Each	1	-
	Digital ammeter with CT 300/5	Each	1	-
	Digital voltmeter with phase selector switch	Each	1	-
	Indication lights Red, Yellow, Blue.	Each	1	-
	Surge Protection Device	Each	1	-
	<b>OUTGOING</b>		1	-
	2x63AMP, TP, MCCB, 18KA with O/L & S/C Protection.	Each	1	-
	1x100AMP, TP, MCCB, 25KA with O/L & S/C Protection.	Each	1	-
	1x32AMP, TP, MCCB, 18KA with O/L & S/C Protection.	Each	1	-
	4x25AMP, TP, MCCB, 18KA with O/L & S/C Protection.	Each	1	-
	2x16AMP, TP, MCCB, 10KA with O/L & S/C Protection.	Each	1	-
	1x16AMP, SP, MCCB, 6KA	Each	1	-
	2x25AMP, SP, MCCB, 6KA	Each	1	-
	3x25AMP, DP, MCCB, 6KA	Each	1	-
	3x25AMP, SP, MCCB, 6KA .	Each	1	-
	Indication Lights Red, Yellow, Green	Each	1	-
<b>ED-01)</b>	<b><u>LOW TENSION POWER CABLES</u></b>			-
<b>i)</b>	<b><u>From T/F TO DB</u></b>			-
	Cable electric LT PVC insulated, PVC sheathed, steel wire armoured, overall PVC 600/1000 V, with stranded copper conductor, 150 mm <sup>2</sup> , 4 core, laid in trenches, complete with bricks, supply and fixing.	Metre	15	-
	Cable electric LT, PVC insulated, PVC sheathed, un-armoured, overall PVC 600/1000 V, with stranded Copper conductor, 70mm <sup>2</sup> , 1 core, laid in Cable Tray/ GI/RCC pipe/duct (excluding cost of pipe/duct), supply and fixing. As ECC	Metre	15	-
				-
<b>ii)</b>	<b><u>From DB TO EQUIPMENT</u></b>			-

	Cable electric LT PVC insulated, PVC sheathed, 4 core (excluding of conduit) 2.5 mm <sup>2</sup> .	Metre	150	-
	Cable electric LT PVC insulated, PVC sheathed, 4 core (excluding of conduit) 4 mm <sup>2</sup> .	Metre	120	-
	Cable electric LT PVC insulated, PVC sheathed, 4 core (excluding of conduit) 6 mm <sup>2</sup> .	Metre	90	-
	Cable electric LT PVC insulated, PVC sheathed, 4 core (excluding of conduit) 10 mm <sup>2</sup> .	Metre	50	-
	Cable electric LT, PVC insulated, PVC sheathed, un-armoured, overall PVC 600/1000 V, with stranded Copper conductor, 2.5mm <sup>2</sup> , 1 core, laid in Cable Tray/ GI/RCC pipe/duct (excluding cost of pipe/duct), supply and fixing. As ECC	Metre	160	-
	Cable electric LT, PVC insulated, PVC sheathed, un-armoured, overall PVC 600/1000 V, with stranded Copper conductor, 4mm <sup>2</sup> , 1 core, laid in Cable Tray/ GI/RCC pipe/duct (excluding cost of pipe/duct), supply and fixing. As ECC	Metre	120	-
	Cable electric LT, PVC insulated, PVC sheathed, un-armoured, overall PVC 600/1000 V, with stranded Copper conductor, 6mm <sup>2</sup> , 1 core, laid in Cable Tray/ GI/RCC pipe/duct (excluding cost of pipe/duct), supply and fixing. As ECC	Metre	90	-
	Cable electric LT, PVC insulated, PVC sheathed, un-armoured, overall PVC 600/1000 V, with stranded Copper conductor, 10mm <sup>2</sup> , 1 core, laid in Cable Tray/ GI/RCC pipe/duct (excluding cost of pipe/duct), supply and fixing. As ECC	Metre	30	-
	Cable electric LT, PVC insulated, PVC sheathed, un-armoured, overall PVC 600/1000 V, with stranded Copper conductor, 50mm <sup>2</sup> , 4 core, laid in Cable Tray/ GI/RCC pipe/duct (excluding cost of pipe/duct), supply and fixing. As ECC	Metre	50	-
<b>iii)</b>	<b><u>Conduit</u></b>			-
	Conduit mm dia, heavy gauge Class-"B", screwed, complete with bends, tees, boxes, saddles etc, stove enamelled for Surface wiring, supply and fixing.			-
	20mm	Metre	490	-
	40mm	Metre	180	-
	50mm	Metre	15	-
<b>FE-01)</b>	<b>Earthing</b>			-
	Earth, complete as described in Specification/Drawings, with 25mmsq copper conductor, supply and fixing.(Complete in all aspects, civil works ,accessories for proper earthing and testing with report )	Each	8	-

					-
	<b>CABLE TRAY</b>				-
	Supply at site, fabrication and installation of perforated cable tray made of GI sheet 14 SWG 8 ft. to 10 ft. long with sides 3" high to be installed on wall, or in vertical, or above false ceiling in horizontal position or floor mounted or as shown on drawing, including cost of hanging arrangement brackets made of angle iron 38mm x 38mm x 6mm installed at every 3 ft., cost of all necessary fixing accessories, complete in all respects, shop drawings of cable tray shall be submitted by the Contractor.				-
	<u>Actual length of cable tray shall be measured at site by Contractor before placing the order and payment shall be made as per actual length installed.</u>				-
					-
	6" wide x 3" high.	Rm	100.00		-
<b>EE-01)</b>					-
<b>A</b>	<b><u>Data Net-working System</u></b>				-
	<b><u>Wiring For Tele/ Data /Access/Projector/Digital Sinage/ Computer Points</u></b>				-
	Wiring for each data/computer point on wall as shown on Data / Computer System layout plan, wired with 4 pair Cat. 6A, UTP Data cable (23 AWG) to support 10 Giga at 500 Mhz upto 100 meter length for data/computer system, cable made of pure copper conductor PVC insulated PVC sheathed, from Data & Voice Cabinet (DVC) to each data/computer point, in and including cost of 1" dia. PVC conduit heavy duty local made, recessed in walls, columns, slabs, floors or above false ceiling or as required as per site conditions, all PVC conduit accessories, pull boxes, steel pull wires with all necessary fixing accessories and materials including cost of data/computer sockets suitable for UTP Cat.-6A cable Toolless keystone jack with single shutter face plate with bracket, connection of cables, identification tags at both ends, all necessary materials and accessories, complete in all respects. Maximum 4 cables 4 pairs Cat.6A shall be pulled in 1" dia. PVC conduit.	15.00	Each		-
<b>B</b>	<b><u>CCTV / DATA CABINET</u></b>				-
	Supply & Installation of Testing & Commissioning of Data Cabinet of Approx. Size 12U, made of M.S Sheet, Powder Coated having lockable glass door at front 4 way fans on top, consisting of following voice and data to be terminated on modular data cabinet including cost of power bus bar input/output RJ-45 Connectors, suitable for UTP Cat-6a cables patch guides complete in all respect as approved by site engineer.	1.00	Nos.		-

	<b>HVAC works</b>				-
1	Providing and Installation of 02Ton floor standing Haier or Eq Inverter AC reversible type complete with copper piping works complete in all respects.	4	Nos.		-
2	Providing and Installation of 1.5Ton wall mounted Haier or Eq Inverter AC reversible type complete with copper piping works complete in all respects.	22	Nos.		-
<b>WASHROOMS</b>					
1	Providing and Installation of PPR Pipe lines by disconnect and removing of existing concealed pipe lines of different dia and Installation of new PPR Pipe lines Master Fit, Popular or Eq PN-12 and 25mm Foam Insulation with tape wrapping of Pipe lines shall Included in this item complete in all respect as directed by Engineer Incharge.				
	40mm	120	Rft		-
	32mm	450	Rft		-
	25mm	350	Rft		-
3	Providing and Installation of Under ground new UPVC pipes Class B, Master or Eq including tee, bend, elbow, Y, vents, cleanouts, P traps, Floor traps, gratings joints with best quality slotion and connected to existing manholes. (New pipe line shall be laid as per proper engineering practice leveling and backfilling, concrete and sand cushion include in this scope, new laid pipes shall be checked 24hrs by filling water to check joints)				
	4"Φ	350	Rft		-
	3"Φ	300	Rft		-
4	Providing and laying of 4" p.c.c 3000psi under floor including compaction, vibration, placing complete in all respect.	455	Cft		-
5	Providing and Installation of wall and floor Tiles Master, S tile or Eq Size 12x24 as approved Color pattern and sample and install with best quality tile bond bestway or S tile filling with chemical filling groute complete in all respect.	2450	Sft		-
6	Providing and Installation of WC Eurpeon Style, best quality but local made with base price of Rs.20,000, complete with Installation Kit and accessories and tee cock and connection pipes etc.	9	No		-
7	Providing and Installation of chrome plated Muslim shower Master or Eq including shower holder complete with Installation.	9	No		-
8	Providing and Installation of Basin Vanity porta or Eq with Preparation base RCC slab at top of polished marble 3/4" thick complete with waste pipe, jali, including all accessories complete in all respect.	5	No		-
9	Providing and Installation of basin/vanity mixer Faisal or Eq including connection pipe complete in all respect.	5	No		-

10	Providing and Installation of UPVC Pipe on external side in service duct by removing of existing CI cast iron pipes and dispose off out of university premises and replace with new UPVC 3" and 4" dia Master or Eq B class Complete with tee, cross,vents, elbow, bend, socket joint with high grip slotion including clamping and connected with existing inlet pipes to Manholes.				
	3" dia	100	Rft		-
	4" dia	100	Rft		-
11	Providing and Installation of soap dishes SS made with good quality incldue installation.	10	No		-
12	Providing and Installation of ceiling mounted central exhaust system with 2500cfm exahust complete with GI ducts of 9"x9" including circuit functional.	1	Job		-
13	Providing and Installation of SMD down light 18w Ft, Sunlight, Pak light complete with electric connection. Dura ducts are includes in this circuits.	20	No		-
14	Providing and Installation of 3Gand Sheets Chinese made approved samples complete with fixing.	5	No		-
16	Providing and Installation of looking mirror 2'-6"x1.5' size complete with Installation of studs includes.	75	Sft		-
17	Providing and Installation of UPVC doors best quality section complete with locks and hinges, dasti, tower bolts complete in all respect. (Removal of existing wooden doors includes)	290	Sft		-
18	Providing and Installation of Double bib cock Faisal or Eq complete with Installation as per approved sample.	10	No		-
19	Providing and Installation of Hand dryer Chinese made best quality complete in all respect with electric circuit include.	2	No		-
	<b>Total Amount</b>				

**CONDITIONS OF CONTRACT**

# CONDITIONS OF CONTRACT

## 1. GENERAL PROVISIONS

### 1.1 Definitions

In the Contract as defined below, the words and expressions defined shall have the following meanings assigned to them, except where the context requires otherwise:

#### **The Contract**

- 1.1.1 “Contract” means the Contract Agreement and the other documents listed in the Contract Data.
- 1.1.2 “Specification” means the document as listed in the Contract Data, including Employer’s requirements in respect of design to be carried out by the Contractor (if any), and any Variation to such document.
- 1.1.3 “Drawings” means the Employer’s drawings of the Works as listed in the Contract Data, and any Variation to such drawings.

#### **Persons**

- 1.1.4 “Employer” means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Contractor) any assignee.
- 1.1.5 “Contractor” means the person named in the Contract Data and the legal successors in title to this person, but not (except with the consent of the Employer) any assignee.
- 1.1.6 “Party” means either the Employer or the Contractor.

#### **Dates, Times and Periods**

- 1.1.7 “Commencement Date” means the date 14 days after the date the Contract comes into effect or any other date agreed between the Parties.
- 1.1.8 “Day” means a calendar day
- 1.1.9 “Time for Completion” means the time for completing the Works as stated in the Contract Data (or as extended under Sub-Clause 7.3), calculated from the Commencement Date.

## **Money and Payments**

- 1.1.10 “Cost” means all expenditure incurred (or to be incurred) by the Contractor, whether on or off the Site, including overheads and similar charges.

## **Other Definitions**

- 1.1.11 “Contractor’s Equipment” means all machinery, apparatus and other things required for the execution of the Works but does not include Materials or Plant intended to form part of the Works.
- 1.1.12 “Country” means the Islamic Republic of Pakistan.
- 1.1.13 “Employer’s Risks” means those matters listed in Sub-Clause 6.1.
- 1.1.14 “Force Majeur” means an event or circumstance which makes performance of a Party’s obligations illegal or impracticable and which is beyond that Party’s reasonable control.
- 1.1.15 “Materials” means things of all kinds (other than Plant) to be supplied and incorporated in the Works by the Contractor.
- 1.1.16 “Plant” means the machinery and apparatus intended to form or forming part of the Works.
- 1.1.17 “Site” means the places provided by the Employer where the Works are to be executed, and any other places specified in the Contract as forming part of the Site.
- 1.1.18 “Variation” means a change to the Specification and/or Drawings (if any) which is instructed by the Engineer/Employer under Sub-Clause 10.1.
- 1.1.19 “Works” means any or all the works whether Supply, Installation, Construction etc. and design (if any) to be performed by the Contractor including temporary works and any variation thereof.
- 1.1.20 “Engineer” means the person notified by the Employer to act as Engineer for the purpose of the Contract and named as such in Contract Data.

## **1.2 Interpretation**

Words importing persons or parties shall include firms and organizations. Words importing singular or one gender shall include plural or the other gender where the context requires.

### **1.3 Priority of Documents**

The documents forming the Contract are to be taken as mutually explanatory of one another. If an ambiguity or discrepancy is found in the documents, the priority of the documents shall be in accordance with the order as listed in the Contract Data.

### **1.4 Law**

The law of the Contract is the relevant Law of Islamic Republic of Pakistan.

### **1.5 Communications**

All Communications related to the Contract shall be in English language.

### **1.6 Statutory Obligations**

The Contractor shall comply with the Laws of Islamic Republic of Pakistan and shall give all notices and pay all fees and other charges in respect of the Works.

## **2. THE EMPLOYER**

### **2.1 Provision of Site**

The Employer shall provide the Site and right of access thereto at the times stated in the Contract Data.

### **2.2 Permits etc.**

The Employer shall, if requested by the Contractor, assist him in applying for permits, licenses or approvals which are required for the Works.

### **2.3 Engineer/Employer's Instructions**

The Contractor shall comply with all instructions given by the Employer in respect of the Works including the suspension of all or part of the Works.

### **2.4 Approvals**

No approval or consent or absence of comment by the Engineer/Employer shall affect the Contractor's obligations.

### **3. ENGINEER'S/EMPLOYER'S REPRESENTATIVES**

#### **3.1 Authorized Person**

One of the Engineer's/Employer's personnel shall have authority to act for him. This authorized person shall be as stated in the Contract Data, or as otherwise notified by the Engineer/Employer to the Contractor from time to time.

#### **3.2 Engineer's/Employer's Representative**

The name and address of Engineer's/Employer's Representative is given in Contract Data. However the Contractor shall be notified by the Engineer/Employer, the delegated duties and authority before the Commencement of Works.

### **4. THE CONTRACTOR**

#### **4.1 General Obligations**

The Contractor shall carry out the Works properly and in accordance with the Contract. The Contractor shall provide all supervision, labour, Materials, Plant and Contractor's Equipment which may be required.

#### **4.2 Contractor's Representative**

The Contractor shall submit to the Employer for consent the name and particulars of the person authorized to receive instructions on behalf of the Contractor.

#### **4.3 Subcontracting**

The Contractor shall not subcontract the whole of the Works. The Contractor shall not subcontract any part of the Works without the consent of the Employer.

#### **4.4. Performance Security**

4.4.1 2% Bid Security will be Considered as Performance security of the successful tenderer.

### **5. DESIGN BY CONTRACTOR**

#### **5.1 Contractor's Design**

The Contractor shall carry out design to the extent specified, as referred to in the Contract Data. The Contractor shall promptly submit to the Engineer/Employer all designs prepared by him. Within 14 days of receipt the Engineer/Employer shall notify any comments or, if the design submitted is not in accordance with the Contract, shall reject it stating the reasons. The Contractor shall not construct any element of the Works designed by him within 14 days after the design has been submitted to the Engineer/Employer or which has been rejected. Design that has been

rejected shall be promptly amended and resubmitted. The Contractor shall resubmit all designs commented on taking these comments into account as necessary.

## **5.2 Responsibility for Design**

The Contractor shall remain responsible for his tendered design and the design under this Clause, both of which shall be fit for the intended purposes defined in the Contract and he shall also remain responsible for any infringement of any patent or copyright in respect of the same. The Engineer/Employer shall be responsible for the Specifications and Drawings.

## **6. EMPLOYER'S RISKS**

### **6.1 The Employer's Risks**

The Employer's Risks are;

- (iv) War, hostilities (whether war be declared or not), invasion, act of foreign enemies, within the Country,
- (v) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war, within the Country,
- (vi) Riot, commotion or disorder by persons other than the Contractor's personnel and other employees including the personnel and employees of Sub-Contractors, affecting the Site and/or the Works,
- (vii) Ionizing radiations, or contamination by radio-activity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radio-active toxic explosive, or other hazardous properties of any explosive nuclear assembly or nuclear component of such an assembly, except to the extent to which the Contractor/Sub-Contractors may be responsible for the use of any radio-active material,
- (viii) Pressure waves caused by aircraft or other aerial devices traveling at sonic or supersonic speeds,
- (ix) Use or occupation by the Employer of any part of the Works, except as may be specified in the Contract,
- (x) Design of any part of the Works by the Employer's personnel or by others for whom the Employer is responsible,
- (xi) A suspension under Sub-Clause 2.3 unless it is attributable to the Contractor's failure,
- (xii) Physical obstructions or physical conditions other than climatic conditions, encountered on the Site during the performance of the Works, which obstructions or conditions for which the Contractor

immediately notified to the Employer and accepted by the Employer.

## **7. TIME FOR COMPLETION**

### **7.1 Extension of Time**

Subject to Sub-Clause 10.3, the Contractor shall be entitled to an extension to the Time for Completion if he is or will be delayed by any of the Employer's Risks subject to the Contractor's notification of intention without un-reasonable delay.

On receipt of an application from the Contractor, the Engineer/Employer shall consider all supporting details provided by the Contractor and the Employer shall extend the Time for Completion as appropriate.

### **7.2 Late Completion**

If the Contractor fails to complete the Works within the Time for Completion, the Contractor's only liability to the Employer for such failure shall be to pay the amount stated in the Schedule A(I) to Tender for each day for which he fails to complete the Works.

## **8. TAKING-OVER**

### **8.1 Completion**

The whole of the Works and, if applicable, any Section required to be completed within a particular time as stated in the Schedule A(I) to Tender, shall be completed, in accordance with the provisions of Clause 8.2, within the time stated in the Schedule A(I) to Tender for the whole of the Works or the Section (as the case may be), calculated from the Commencement Date.

### **8.2 Taking-Over Notice**

When the whole of the Works have been substantially completed and have satisfactorily passed any tests on completion prescribed by the Contract, the Contractor may give notice to that effect to the Engineer, with a copy to the Employer, accompanied by a written undertaking to finish with due expedition any outstanding work during the Defects Liability Period. Such notice and undertaking shall be deemed to be a request by the Contractor for the Engineer to issue a Taking-Over Certificate in respect of the Works.

The Engineer shall, within 21 days of the date of delivery of such notice, either issue to the Contractor, with a copy to the Employer, a Taking-Over Certificate, stating the date on which, in his opinion, the Works were substantially completed in accordance with in the Contract, or giving instructions in writing to the Contractor specifying all the work which, in the Engineer's opinion, is required to be done by the Contractor before the issue of such certificate. The Engineer shall also notify the Contractor of any defects in the Works affecting substantial completion that may appear after such instructions and before completion of the Works specified therein. The Contractor shall be entitled to receive such Taking-Over Certificate within 21

days of completion, to the satisfaction of the Engineer, of the Works so specified and remedying any defects so notice.

### **8.3. DEFECTS LIABILITY PERIOD**

In these Conditions the expression "Defects Liability Period" shall mean the defects liability period named in the Schedule A(I) to Tender, calculated from:

- (a) The date of completion of the Works certified by the Engineer in accordance with Clause 8.2, or

In the event of more than one certificate having been issued by the Engineer under Clause 8.2, the respective dates so certified and in relation to the Defects Liability Period the expression "the Works" shall be Construed accordingly.

## **9. REMEDYING DEFECTS**

### **9.1 Remedying Defects**

The Employer may at any time prior to the expiry of the period stated in the Schedule A(I) to Tender, notify the Contractor of any defects. The Contractor shall remedy at no cost to the Employer any defects due to the Contractor's design, Materials, Plant or workmanship not in accordance with the Contract.

The cost of remedying defects attributable to any other cause shall be valued as a Variation. Failure to remedy any such defects or complete outstanding work within a reasonable time shall entitle the Employer to carry out all necessary works at the Contractor's cost.

### **9.2 Uncovering and Testing**

The Engineer/Employer may give instruction as to the uncovering and/or testing of any work. Unless as a result of an uncovering and/or testing it is established that the Contractor's design, Materials, Plant or workmanship are not in accordance with the Contract, the Contractor shall be paid for such uncovering and/or testing as a Variation in accordance with the Sub-Clause 10.2.

## **10. VARIATIONS AND CLAIMS**

### **10.1 Right to Vary**

The Employer may instruct Variations.

### **10.2 Valuation of Variations**

Variations shall be valued as follows:

- a) At a lump sum price agreed between the Parties, or
- b) Where appropriate, at rates in the Contract, or

- c) In the absence of appropriate rates, the rates in the Contract shall be used as the basis for valuation, or failing which
  - i) At appropriate new rates, as may be agreed or which the Engineer/Employer considers appropriate, or
  - ii) If the Engineer/Employer so instructs, at day work rates set out in the Contract Data for which the Contractor shall keep records of hours of labour and Contractor's Equipment, and of Materials, used.

### **10.3 Early Warning**

The Contractor shall notify the Engineer/Employer in writing as soon as he is aware of any circumstance which may delay or disrupt the Works, or which may give rise to a claim for additional payment.

To the extent that the Contractor's failure to notify results to the Engineer/Employer being unable to keep all relevant records or not taking steps to minimize any delay, disruption, or Cost, or the value of any Variation, the Contractor's entitlement to extension to the Time for Completion or additional payment shall be reduced/rejected.

### **10.4. Valuation of Claims**

If the Contractor incurs Cost as a result of any of the Employer's Risks, the Contractor shall be entitled to the amount of such Cost. If as a result of any Employer's Risk, it is necessary to change the Works, this shall be dealt with as a Variation subject to Contractor's notification for intention of claim to the Engineer/Employer within 14 days of the occurrence of cause.

### **10.5 Variation and Claim Procedure**

The Contractor shall submit to the Engineer/Employer an itemized make-up of the value of variations and claims within 28 days of the instruction or of the event giving rise to the claim. The Engineer/Employer shall check and if possible agree the value. In the absence of agreement, the Employer shall determine the value.

## **11. CONTRACT PRICE AND PAYMENT**

### **11.1 (a) Terms of Payments**

Payment of the Contract Price shall be made as per provisions in the Contract Data.

### **(b) Valuation of the Works**

The Works shall be valued subject to Clause 10.

## **11.2 Retention**

(a) Retention money will be released after 180 days from date of issue of the acceptance certificate by the Engineer.

## **11.5 Currency**

Payment shall be in the currency stated in the Contract Data.

## **12. DEFAULT**

### **12.1 Default by Contractor**

If the Contractor abandons the Works, refuses or fails to comply with a valid instruction of the Engineer/ Employer or fails to proceed expeditiously and without delay, or is, despite a written complaint, in breach of the Contract, the Employer may give notice referring to this sub-Clause and stating the default.

If the Contractor has not taken all practicable steps to remedy the default within 14 days after receipt of the Employer's notice, the Employer may by a second notice given within a further 21 days, terminate the Contract. The Contractor shall then demobilize from the Site leaving behind any Contractor's Equipment which the Employer instructs in the second notice is to be used for the completion of the Works.

### **12.2 Default by Employer**

If the Employer fails to pay in accordance with the Contract, or is, despite a written complaint, in breach of the Contract, the Contractor may give notice referring to this Sub-Clause and stating the default. If the default is not remedied within 14 days after the Employer's receipt of this notice, the Contractor may suspend the execution of all or parts of the Works.

If the default is not remedied within 28 days after the Employer's receipt of the Contractor's notice, the Contractor may by a second notice given within a further 21 days, terminate the Contract. The Contractor shall then demobilize from the Site

### **12.3 Insolvency**

If a Party is declared insolvent under any applicable law, the other Party may by notice terminate the Contract immediately. The Contractor shall then demobilize from the Site leaving behind, in the case of the Contractor's insolvency, any Contractor's Equipment which the Employer instructs in the notice is to be used for the completion of the Works.

## 12.4 Payment upon Termination

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) any sums to which the Employer is entitled,
- c) if the Employer has terminated under Sub-Clause 12.1 or 12.3, the Employer shall be entitled to a sum equivalent to 20% of the value of parts of the Works not executed at the date of the termination.
- d) if the Contractor has terminated under Sub-Clause 12.2 or 12.3 Contractor shall be entitled to the cost of his demobilization together with a sum equivalent to 10% of the value of parts of the Works not executed at the date of termination.

The net balance due shall be paid or repaid within 28 days of the notice of termination.

## 13. RISK AND RESPONSIBILITY

### 13.1 Contractor's Care of the Works

The Contractor shall take full responsibility for the care of the Works from the Commencement Date until the date of the Employer's notice under Sub-Clause 8.2. Responsibility shall then pass to the Employer. If any loss or damage happens to the Works during the above period, the Contractor shall rectify such loss or damage so that the Works conform with the Contract.

Unless the loss or damage happens as a result of any of the Employer's Risks, the Contractor shall indemnify the Employer, or his agents against all claims loss, damage and expense arising out of the Works.

### 13.2 Force Majeure

If Force Majeure occurs, the Contractor shall notify the Engineer/Employer immediately. If necessary, the Contractor may suspend the execution of the Works and, to the extent agreed with the Employer demobilize the Contractor's Equipment.

If the event continues for a period of 84 days, either Party may then give notice of termination which shall take effect 28 days after the giving of the notice.

After termination, the Contractor shall be entitled to payment of the unpaid balance of the value of the Works executed and of the Materials and Plant reasonably delivered to the Site, adjusted by the following:

- a) any sums to which the Contractor is entitled under Sub-Clause 10.4,
- b) the cost of his demobilization,
- c) less any sums to which the Employer is entitled.

The net balance due shall be paid or repaid within 28 Days of the notice of termination.

## **15. RESOLUTION OF DISPUTES**

### **15.1 Engineer's Decision**

If a dispute of any kind whatsoever arises between the Employer and the Contractor in connection with the Works, the matter in dispute shall, in the first place, be referred in writing to the Director A&S, with a copy to the other party. Such reference shall be state that it is made pursuant to this Clause. No later than the twenty eight (28) days after the day on which he received such reference, the Engineer shall give notice of his decision to the Employer and the Contractor.

Unless the Contract has already been repudiated or terminated, the Contractor shall, in every case, continue to proceed with the Work with all due diligence, and the Contractor and the Employer shall give effect forthwith to every such decision of the Director A&D unless and until the same shall be revised, as hereinafter provided in an arbitral award.

### **15.2 Notice of Dissatisfaction**

If a Party is dissatisfied with the decision of the Engineer or if no decision is given within the time set out in Sub-Clause 15.1 here above, the Party may give notice of dissatisfaction referring to this Sub-Clause within 14 days of receipt of the decision or the expiry of the time for the decision. If no notice of dissatisfaction is given within the specified time, the decision shall be final and binding on the Parties. If notice of dissatisfaction is given within the specified time, the decision shall be binding on the Parties who shall give effect to it without delay unless and until the decision of the Engineer is revised by an arbitrator.

### **15.3 Arbitration**

All matters of dispute or difference regarding rejection of works by the Director A&S or cancellation of the contract by the Air University, arising out of this agreement between the parties thereto, the settlement of which is not otherwise specially provided for in this agreement, shall be referred to arbitration as under:-

- (i) The settlement of dispute, not otherwise specially provided for in the contract, through arbitration clause in the contract shall be referred to the decision of Vice Chancellor of Air University. His decision shall be final and binding on both the parties.

## **16. Third Party Insurance (NOT APPLICABLE)**

The contractor shall without limiting his or the Employer's obligations and responsibilities under insure in the joint names of the contractor and the Employer, against liabilities for death of or injury to any person or loss of or damage to any property arising out of the permanence of the contract.

## **17. Liquidated Damages for Delay**

If the Contractor fails to comply with the Time for Completion in accordance with Clause 8.2, for the whole of the Works or, if applicable, any Section within the relevant time prescribed by Clause 7, then the Contractor shall pay to the Employer the relevant sum stated in the Schedule A(I) to Tender as liquidated damages for such default and not as penalty (which sum shall be the only monies due from the Contractor for such default) for every day or part of a day which shall elapse between the relevant Time for Completion and the date stated in a Taking-Over Certificate of the whole of the Works or the relevant Section, subject to the applicable limit stated in the Schedule A(I) to Tender. The Employer may, without prejudice to any other method of recovery, deduct the amount of such damages from any monies due or to become due to the Contractor.

The payment or deduction of such damages shall not relieve the Contractor from obligation to complete the Works, or from any other of his obligations liabilities under the Contract.

## **18. SUPPLY OF MATERIALS**

18.1 No materials, including water, electricity etc., required for execution of the Works shall be supplied or arranged by the Employer. It shall be the responsibility of the Tenderer to procure all materials required for the timely completion and the remedying of any defects therein of the Works.

18.2 No escalation on account of materials, labor, POL or any other thing or matter shall be permissible.

## CONTRACT DATA

### Sub-Clauses of Conditions of Contract

#### 1.1.4 The Employer means

Vice Chancellor  
Air University, Sector E-9 Islamabad  
Tel: 051-9263207

#### 1.1.5 The Contractor means

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#### 1.1.9 Time for Completion (180 Days)

#### 1.1.20 Engineer

Director A&S  
Air University, Sector E-9 Islamabad

#### 1.3 Documents forming the Contract listed in the order of priority:

- (a) The Contract Agreement
- (b) Contract Data
- (c) Letter of Acceptance
- (d) Conditions of Contract
- (g) The Schedules to Tender including Schedule of Prices

#### 3.2 Name and address of Employer's representative

Director A&S  
Air University, Sector-E-9 Islamabad

#### 4.4 Performance security:

As Per G.C.C Clause 4.4

#### 9.1 Period for notifying defects

**180 Days**

#### 11.1 \*(a) Terms of Payments

Payment to be made in the following manners.

---

- i) Payment would be made in three (03) IPC's but subject to completion of work percentage verified by Engineer.
- ii) Remaining 5% retention money shall be paid in accordance with Clause 11.2 of Conditions of Contract.

11.3 **Percentage of retention:** 5% of the contract amount

11.7 **Currency of payment:** Pak. Rupees

15.3 **Arbitration** Place of Arbitration: Vice Chancellor office Islamabad

## **STANDARD FORMS**

**FORM OF TENDER SECURITY**  
(Bank Guarantee)

Guarantee No. \_\_\_\_\_  
Executed on \_\_\_\_\_

Letter by the Guarantor to the Employer

Name of Guarantor (Bank) with  
address: \_\_\_\_\_

Name of Principal (Tenderer) with  
address: \_\_\_\_\_

Penal Sum of Security (express in words and  
figures): \_\_\_\_\_

Tender Reference No. \_\_\_\_\_ Dated \_\_\_\_\_ of  
Tender \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Tender and at the request of the said Principal, we the Guarantor above-named are held and firmly bound unto the \_\_\_\_\_, (hereinafter called The "Employer") in the sum stated above, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has submitted the accompanying Tender numbered dated as above for \_\_\_\_\_ (Particulars of Tender) to the said Employer; and

WHEREAS, the Employer has required as a condition for considering said Tender that the Principal furnish a Tender Security in the above said sum to the Employer, conditioned as under:

- (1) that the Tender Security shall remain valid for a period of 28 days beyond the period of validity of the tender;
- (2) that in the event of;
  - (a) the Principal withdraws his Tender during the period of validity of Tender, or
  - (b) the Principal does not accept the correction of his Tender Price, pursuant to Sub-Clause 16.4 of Instructions to Tenderers, or
  - (c) failure of the successful tenderer to
    - (i) Furnish the required Performance Security, in accordance with Clause 21 of Instructions to Tenderers, or
    - (ii) Sign the proposed Contract Agreement, in accordance with Clause 20-2 & 20.3 of Instructions to Tenderers,

Then the entire sum be paid immediately to the said Employer for delayed completion and not as penalty for the successful tenderer's failure to perform.

NOW THEREFORE, if the successful tenderer shall, within the period specified thereof, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer in accordance with his Tender as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfillment of the said Contract or in the event of withdrawal of the said Tender within the time specified then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Guarantor shall forthwith pay to the Employer the said sum stated above upon first written demand of the Employer without cavil or argument and without requiring the Employer to prove or to show grounds or reasons for such demand notice of which shall be sent by the Employer by registered post duly addressed to the Guarantor at its address given above.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Guarantor shall pay without objection the sum stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above bounded Guarantor has executed the instrument under its seal on the date indicated above, the name and seal of the guarantor being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

\_\_\_\_\_  
**Guarantor (Bank)**

Witness:

Signature\_\_\_\_\_

Signature\_\_\_\_\_

Name\_\_\_\_\_

Name\_\_\_\_\_

Title\_\_\_\_\_

Title\_\_\_\_\_

Corporate Secretary (Seal)

Corporate Secretary (Seal)

**FORM OF PERFORMANCE SECURITY**  
(Bank Guarantee)

Guarantee No. \_\_\_\_\_  
Executed on: \_\_\_\_\_

Letter by the Guarantor to the Employer

Name of Guarantor (Bank) with  
address: \_\_\_\_\_

Name of Principal (Contractor) with  
address: \_\_\_\_\_

Penal Sum of Security (express in words and  
figures): \_\_\_\_\_

Letter of Acceptance No. \_\_\_\_\_ Dated \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Tender Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above name, are held and firmly bound unto the \_\_\_\_\_ (hereinafter called the Employer) in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for \_\_\_\_\_ (Name of Contract) for the \_\_\_\_\_ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 9, Remedying Defects, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim

for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, \_\_\_\_\_ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contactor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounded Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

\_\_\_\_\_  
**Guarantor (Bank)**

Witness:

Signature\_\_\_\_\_

Signature\_\_\_\_\_

Name\_\_\_\_\_

Name\_\_\_\_\_

Title\_\_\_\_\_

Title\_\_\_\_\_

Corporate Secretary (Seal)

Corporate Secretary (Seal)

## FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the \_\_\_\_\_ day of \_\_\_\_\_ 2026 between \_\_\_\_\_ (hereafter called the "Employer") of the one part and \_\_\_\_\_ (hereafter called the "Contractor") of the other part.

WHEREAS the Employer is desirous that certain Works, viz \_\_\_\_\_ should be executed by the Contractor and has accepted a Tender by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any except those parts relating to Instructions to Tenderers shall be deemed to form and be read and construed as part of this Agreement, viz:
  - (a) Work Order
  - (b) The Tender
  - (c) Conditions of Contract & Contract Data
  - (d) The Schedule of Prices
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects within the provisions of the Contract.
4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed the day and year first before written in accordance with their respective laws.

The Common Seal of \_\_\_\_\_

was hereunto affixed in the presence of:

or

Signed, Sealed and Delivered by the said in the presence of:

Binding Signature of Employer \_\_\_\_\_

Binding Signature of Contractor \_\_\_\_\_

**Quantitative Evaluation Yardstick for Civil Works at Islamabad.**

<b>A. Experience</b>	<b>Total Points =35</b>
1. Similar project completed in last 05 years (supported by documents)	10
2. Ongoing projects of similar nature	10
3. Past Experience With AU	15

<b>B. Profile</b>	<b>Total Points = 30</b>
1. Management/Admin staff duly supported by tax returns	10
2. Engineering and technical staff duly supported by tax returns	10
3. Availability of relevant equipment & tools	10

<b>C. Financial Capability</b>	<b>TotalPoints= 30</b>
1. Average working capital for the last 03 years	10
2. Average annual construction turnover in millions for the last 03 years	10
3. Average income tax paid in millions in last 03 years	10

<b>D. Work Plan</b>	<b>Total Points = 05</b>
1. Work plan for total duration	05

AIR UNIVERSITY  
CHINA BLOCK

TENDER DRAWINGS  
APRIL-2026



Designmen Consulting Engineers (Pvt.) Ltd.

1st Floor , Block 9-West , Blue Area  
Rizwan Plaza, Jinnah Avenue F-6 , Islamabad  
Tel.No. 051-2828577 - 2829002  
Fax : 92-51-2307615

TENDER DRAWING  
NOT FOR  
CONSTRUCTION

# GENERAL NOTES

## 1. SYSTEM OF UNITS

- ALL DIMENSIONS, SPACING ETC. ARE IN INCHES AND FEET UNLESS OTHERWISE SPECIFIED.
- ALL ELEVATIONS ARE IN INCHES & FEET UNLESS OTHERWISE NOTED.

## 2. CONCRETE

A-THE MINIMUM CONCRETE COMPRESIVE CYLINDER STRENGTH AT 28 DAYS SHALL BE 4000PSI (24MPa) FOR ALL COLUMNS & R.C.C WALLS .  
BE 3000PSI (21MPa) FOR FOUNDATION, BEAM & SLABS.

B- MINIMUM COMPRESIVE CYLINDER STRENGTH AT 28 DAYS OF ALL BLINDING CONCRETE SHALL BE 1500PSI.(10MPa)  
UNLESS OTHERWISE NOTED ON THE DRAWING.

## 3. REINFORCING STEEL

- ALL REINFORCING STEEL FOR REINFORCED CONCRETE SHALL BE OF 60,000PSI (GRADE 60) DEFORMED BARS EXPECT SHEAR STIRRUPS FOR COLUMN ,BEAMS & LINTELS
- ALL LAP LENGTHS AND DEVELOPMENT LENGTHS OF REINFORCING BARS SHALL BE ACCORDING TO ACI CODE.
- THE SHEAR REINFORCEMENT(STIRRUPS) IN ALL BEAMS/COLUMNS SHALL BE 40,000 PSI

## 4. CONCRETE PROTECTION TO REINFORCEMENT

MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE SPECIFIED ON THE DRAWING.

STRUCTURAL ELEMENT	COVER
FOOTING	3" (75mm)
SLABS,WALLS	3/4" (20mm)
COLUMNS & BEAMS	1 1/2" (39mm)
Water Retaining Structures	3" (75mm)

## 5. AGGREGATE SIZE

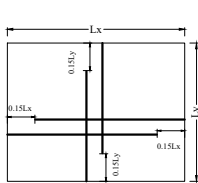
MAXIMUM AGGREGATE SIZE SHALL BE AS FOLLOWS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

## 6. GUIDANCE FOR GRANULAR MATERIAL UNDER FOUNDATION

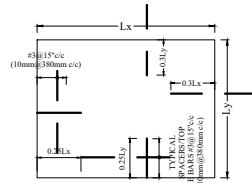
AS PER GEO ENGINEERS, GRANULAR MATERIAL (A1-A3) OF 1.5ft WITH PROPER COMPACTION AT 95% OF MDD.

PARTICLE SIZE	2 1/2" (63.5mm)	2" (50mm)	1/2" (12.5mm)	No.4 Sieve (0.425mm)	No.200 Sieve (0.075mm)
% PASSING	100	90-100	40-60	10-30	5-10

AS PER GEOTECH REPORT RECOMMENDATION USE AN ORDINARY PORTLAND CEMENT (OPC).



TYPICAL BOTTOM BAR ARRANGEMENT  
DETAILS FOR SLAB



TYPICAL TOP BAR ARRANGEMENT  
DETAILS FOR SLAB (BOTH WAYS)

STRUCTURAL ELEMENT	MAX.AGGREGATE SIZE
RAFT	1 1/4" (30mm)
SLABS,WALLS	3/4" (20mm)
COLUMNS & BEAMS	3/4" 20mm)

## 6. LEVELS

THE LEVELS SHOWN ON STRUCTURAL DRAWINGS ARE STRUCTURAL FLOOR LEVELS. COORDINATE LEVELS WITH ARCHITECTURAL DRAWINGS

## 7. CONSTRUCTION JOINT

CONSTRUCTION JOINT SHALL GENERALLY BE FOLLOWED AS INDICATED ON THE DRAWING-HOWEVER THE CONTRACTOR WILL USE CONSTRUCTION JOINTS ARRANGEMENT TO SUIT HIS REQUIREMENT WITH PRIOR APPROVAL OF THE ENGINEER. FOR THIS PURPOSE THE CONTRACTOR SHALL HAVE TO SUBMIT HIS PROPOSAL FOR THE APPROVAL OF THE ENGINEERS SUFFICIENTLY IN ADVANCE OF HIS SCHEDULED POURING DATE. ALL CONSTRUCTION JOINTS SHALL BE TREATED AS PER SPECIFICATIONS DIFFERENTIAL HEIGHT IN CONSTRUCTION SHALL NOT EXCEED 20 FEET. 610cm

## 8. TOP & BOTTOM REINFORCEMENT IN BEAM & RAFT

CUT LENGTH FOR TOP REINFORCEMENT SHOULD BE L3 AND FOR BOTTOM REINFORCEMENT SHALL BE L8 FROM SUPPORT FACE WHERE L IS CLEAR SPAN.

## 9. LOCAL ADJUSTMENT

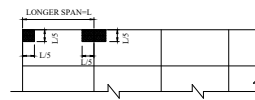
LOCAL ADJUSTMENT TO ACCOMMODATE FIXTURES/EMBEDMENTS OPENINGS MAY BE MADE AT SITE BUT SUBJECT TO THE APPROVAL OF THE ENGINEER, AS LONG AS IT WOULD NOT MATERIALLY EFFECT THE DESIGN.

## 10. TOLERANCES AND DIMENSIONS

BEFORE THE FORM WORK IS LAID AT SITE THE CONTRACTOR MUST VERIFY AND CHECK OVERALL DIMENSIONS/ELEVATION OF THE STRUCTURE GIVEN IN THE STRUCTURAL DRAWINGS TO SEE IF THE FINISHED DIMENSION ELEVATION GIVEN ON THE DRAWING TALLY AFTER PROVIDING THE REQUIRED FINISH.THE ENGINEER REPRESENTATIVE SHALL VERIFY THE MEASUREMENT OF STRUCTURAL SIZES AND ELEVATION BE RECORDED IN RELEVANT POUR STEPS TO BE PUT UP BY THE CONTRACTOR AND TO BE APPROVED BY THE ENGINEER BEFORE EXECUTION PERMISSION TO PROCEED, SHALL NOT BE GRANTED IF DEVIATIONS ARE MORE THAN PERMISSIBLE TOLERANCES.

## 11. TYPICAL SLAB REINFORCEMENT DETAIL

ALL SLAB CORNERS WITH MAIN SPANS ABOVE 20' (610cm) SHALL HAVE EXTRA REINFORCEMENT AS INDICATED-3/4 OF MAIN REINFORCEMENT.(T&B) WHERE L= LONGER SPAN



NOTE-11. FOR SLAB

# DETAILING OF REINFORCEMENT

## 1. DEVELOPMENT LENGTH (ACI 21.5.4)

UNLESS OTHERWISE STATED ON THE DRAWINGS, THE FOLLOWING DEVELOPMENT LENGTH LENGTHS SHALL BE PROVIDED.

Bar Dia	Straight Bar fy=60,000 psi					
	l=1/25√fc' (upto # 6 bars) l=fy/20√fc' (# 7 And Above)			With Standard Hook Ld=0.8x0.02fy/√fc'		
	fc'=3000 Psi.	fc'=4000 Psi.	fc'=4500 Psi.	fc'=3000 Psi.	fc'=4000 Psi.	fc'=4500 Psi.
1/4 "	14"	10"	12"	5"	4"	4"
3/8 "	17"	15"	14"	7"	6"	6"
1/2 "	22"	19"	18"	9"	8"	8"
5/8 "	28"	24"	23"	11"	10"	9"
3/4 "	33"	28"	27"	13"	12"	11"
1"	55"	48"	45"	18"	15"	16"

## 2. STANDARD HOOKS (ACI7.1.7.2)

Bar Dia	A	B	C	Hook
1/4"	2.5"	1.5"	3"	180° Hook
3/8"	2.5"	2.25"	4.5"	180° Hook
1/2"	2.5"	3"	6"	90° Hook
5/8"	2.5"	3.75"	7.5"	90° Hook
3/4"	3"	4.5"	9"	90° Hook
1"	4"	6"	12"	90° Hook

## 3. LAP LENGTH

UNLESS OTHERWISE STATED ON THE DRAWING,THE FOLLOWING LAP LENGTHS SHALL BE PROVIDED.

Bar Dia	fy=60,000 psi		
	Length of Lap Splice		
	fc'=3000 Psi.	fc'=4000 Psi.	fc'=4500 Psi.
1/4"	18"	13"	15"
3/8"	22"	20"	18"
1/2"	29"	25"	24"
5/8"	36"	32"	29"
3/4"	43"	36"	35"
1"	72"	63"	58"

EXCEPT WHEN OTHERWISE SHOWN ON THE DRAWING, WHENEVER REINFORCING BARS OF DIFFERENT SIZES ARE TO BE SPLICED, THE SPLICED LENGTH IS TO BE LARGER OF THE DEVELOPMENT LENGTH AND THE SPLICE LENGTH OF SMALLER BAR

## 4. SPACING

THE FIRST AND LAST BARS IN WALLS,SLABS,STIRRUPS IN BEAMS AND TIES IN COLUMNS SHOULD START AND END AT A MAXIMUM OF ONE HALF ADJACENT BAR SPACING.

## 5. ACCESSORIES

BAR SUPPORTS,SPACERS AND OTHER ACCESSORIES ARE NOT SHOWN ON THE DRAWING, THE RECOMMENDATION OF ACI.BS OR OTHER SUPPORTING SYSTEM AS APPROVED BY THE ENGINEER MAY BE USED.(SPACERS TO BE #3@15"/c (10mm@380mm c/c) & NOT TO BE PROVIDED IN THE AREA WHERE NEGATIVE REINFORCEMENT EXISTS).

TENDER DRAWING  
NOT FOR  
CONSTRUCTION

REV No.	DATE	REVISIONS	IMPORTANT NOTE:-	DRAWN CHECK	APPR.	DRAWN BY:	ASIF IQBAL	COPYRIGHT:-	TITLE:-	TYPE OF DRAWING	ISSUED FOR:	PROJECT:-	SCALE:-	DATE:-	DWG No. :-	RIVISION
			THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.			DESIGN BY:	ZAID UL HASSAN	THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	SLAB REINFORCEMENT DETAIL BOTTOM LAYER	STRUCTURE	TENDER	AIR UNIVERSITY CHINA BLOCK		APRIL-2026		00
						STR HEAD:	NAJIB AHMAD									
						CAD CHECK:	ASIF IQBAL									
						QAG CHECK:	MANSAB DAR									
						APPROVED BY:	NAJIB AHMAD									

1st Floor , Block 9-West ,  
Rizwan Plaza, Jinnah Avenue F-6 ,  
ISLAMABAD - PAKISTAN  
Ph: 92-51-2828577 , 2829002  
Fax : 92-51-2307615  
E-mail: designmenislamabad@gmail.com



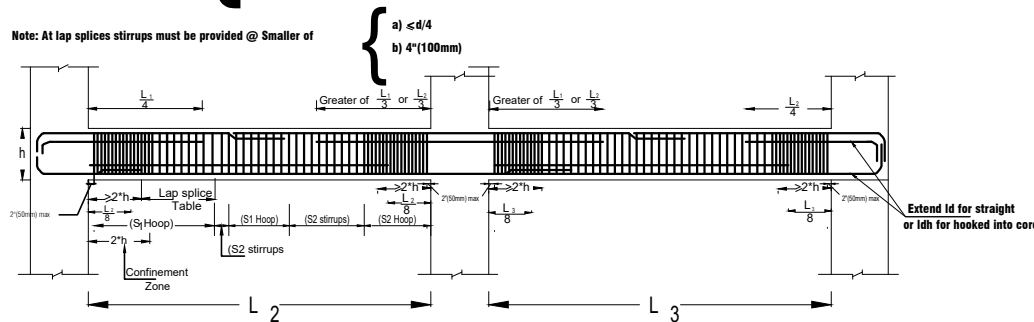
**Designmen**  
CONSULTING ENGINEERS (Pvt) LTD.

$S_1 = \text{Hoop @ Smaller of}$ 

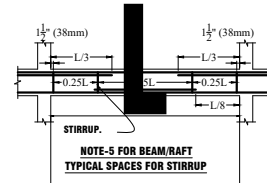
- a)  $\leq d/4$
- b)  $8 d_b$  of smallest longitudinal bar
- c)  $24 d_b$  of hoop bars
- d)  $12" (300\text{mm})$

  
 $S_2 = \text{Stirrups @ } \leq d/2$

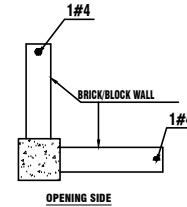
Note: At lap splices stirrups must be provided @ Smaller of



TYPICAL REBAR PLACEMENT.

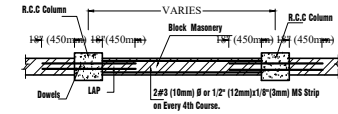


NOTE-5 FOR BEAM/RAFT TYPICAL SPACES FOR STIRRUP

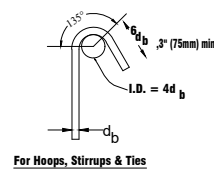
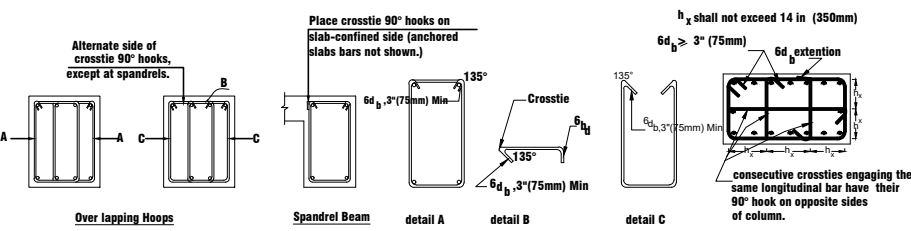
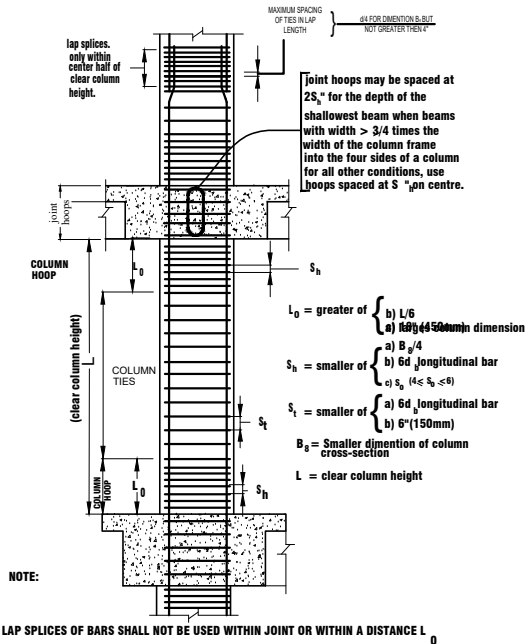
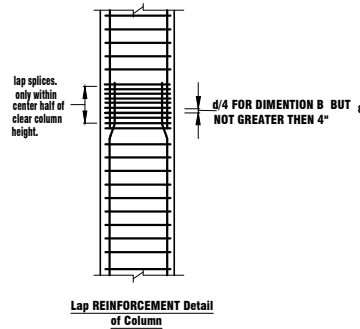
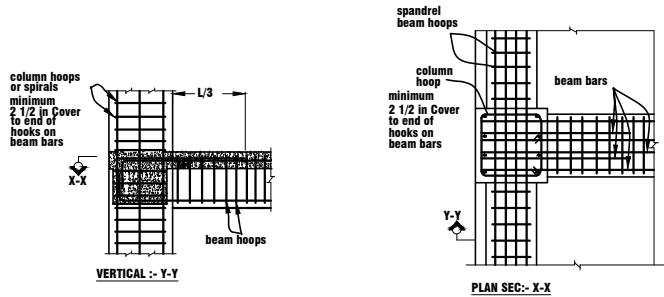


IMPORTANT NOTE:-

- 1:- ALL BRICK MASONRY WALLS, TOBE TIED WITH R.C.C COLUMNS.
- 2:- ALL DETAILING OF REBARS AS PER SEISMIC ZONE,(UBC).

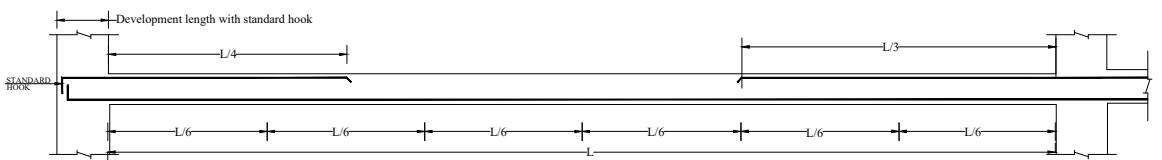
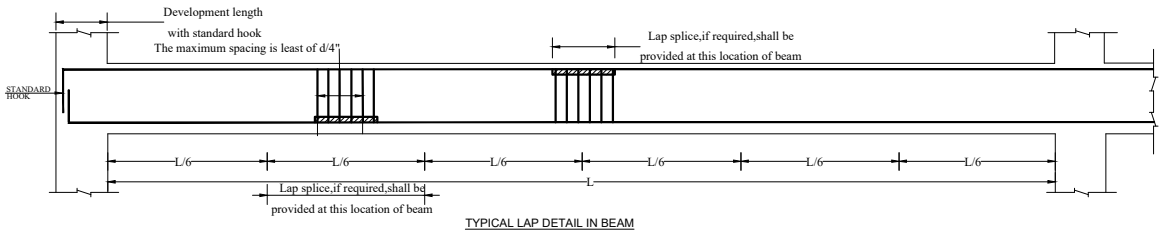
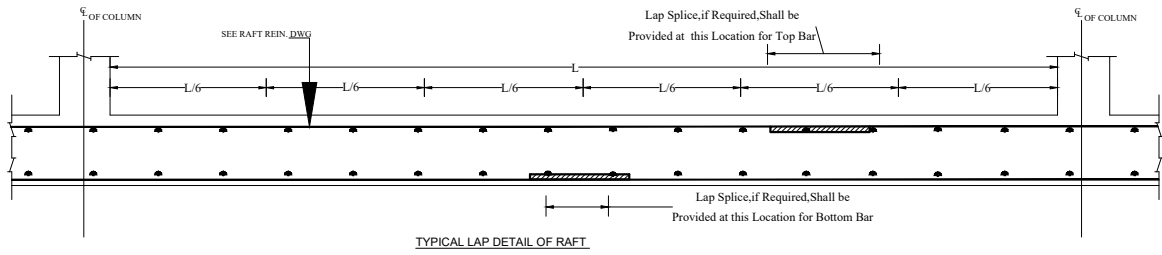


NOTE: No lap splice shall be permitted within joints and Confinement Zone

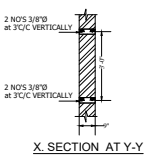
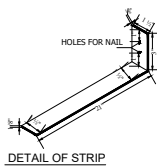
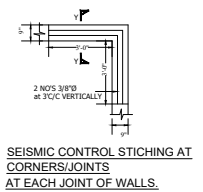
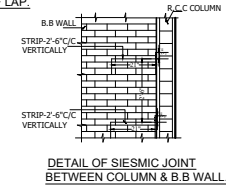


TENDER DRAWING NOT FOR CONSTRUCTION

REV No.	DATE	REVISIONS	IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN CHECK	APPR.	DRAWN BY: DESIGN BY: STR HEAD: CAD CHECK: QAG CHECK: APPROVED BY:	ASIF IQBAL ZAID UL HASSAN NAJIB AHMAD ASIF IQBAL MANSAB DAR NAJIB AHMAD	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:- GENERAL NOTES TYPE OF DRAWING ISSUED FOR:	PROJECT:- AIR UNIVERSITY CHINA BLOCK	1st Floor , Block 9-West , Rizwan Plaza, Jinnah Avenue F-6 , ISLAMABAD - PAKISTAN Ph: 92-51-2828577 , 2829002 Fax : 92-51-2307615 E-mail: designmenislamabad@gmail.com
									STRUCTURE TENDER	SCALE:- DATE:- DWG No. :- RIVISION	APRIL-2026 C-646-2025-S-00 00



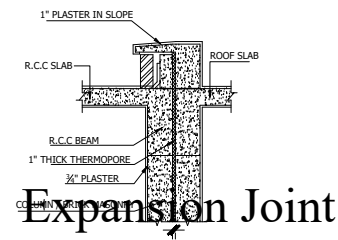
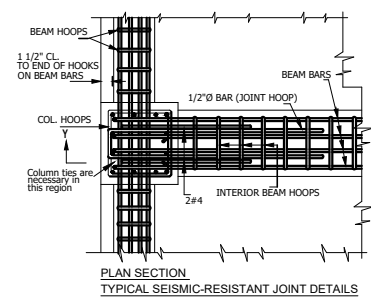
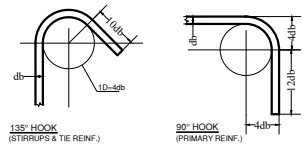
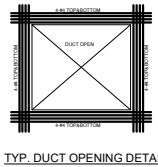
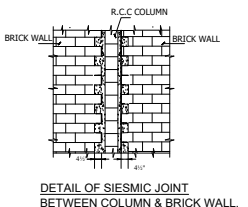
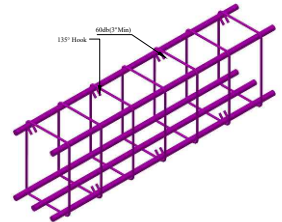
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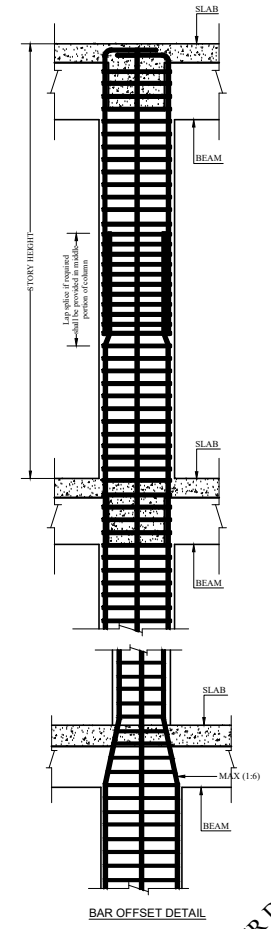
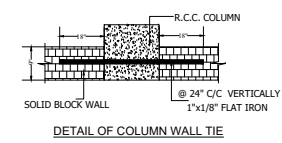
INTERNAL WALLS LINTELS REINFORCEMENT IN LINTELS FOR DOOR, WINDOWS/ VENTILATORS					
Wall 1/2"	SPAN	LINTEL	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS
	2'0"PT15'-6"	9"X6"	2-#3	2-#4	#3@8" C/C
	> 6' < 10'	9"X6"	2-#4	3-#4	#3@8" C/C
	> 10'PT15'-12"	9"X12"	3-#5	4-#5	#3@8" C/C

INTERNAL WALLS LINTELS REINFORCEMENT IN LINTELS FOR DOOR, WINDOWS/ VENTILATORS					
Wall 4/2"	SPAN	LINTEL	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS
	2'0"PT15'-6"	4"X6"	2-#3	2-#3	#3@8" C/C



TYP DETAIL OF EXPANSION JOINT



TENDER DRAWING NOT FOR CONSTRUCTION

REV No.	DATE	REVISIONS

IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN CHECK	APPR.	DRAWN BY: DESIGN BY: STR HEAD: CAD CHECK: QAG CHECK: APPROVED BY:	ASIF IQBAL ZAID UL HASSAN NAJIB AHMAD ASIF IQBAL MANSAB DAR NAJIB AHMAD
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TITLE:- GENERAL NOTES	
TYPE OF DRAWING STRUCTURE	ISSUED FOR: TENDER

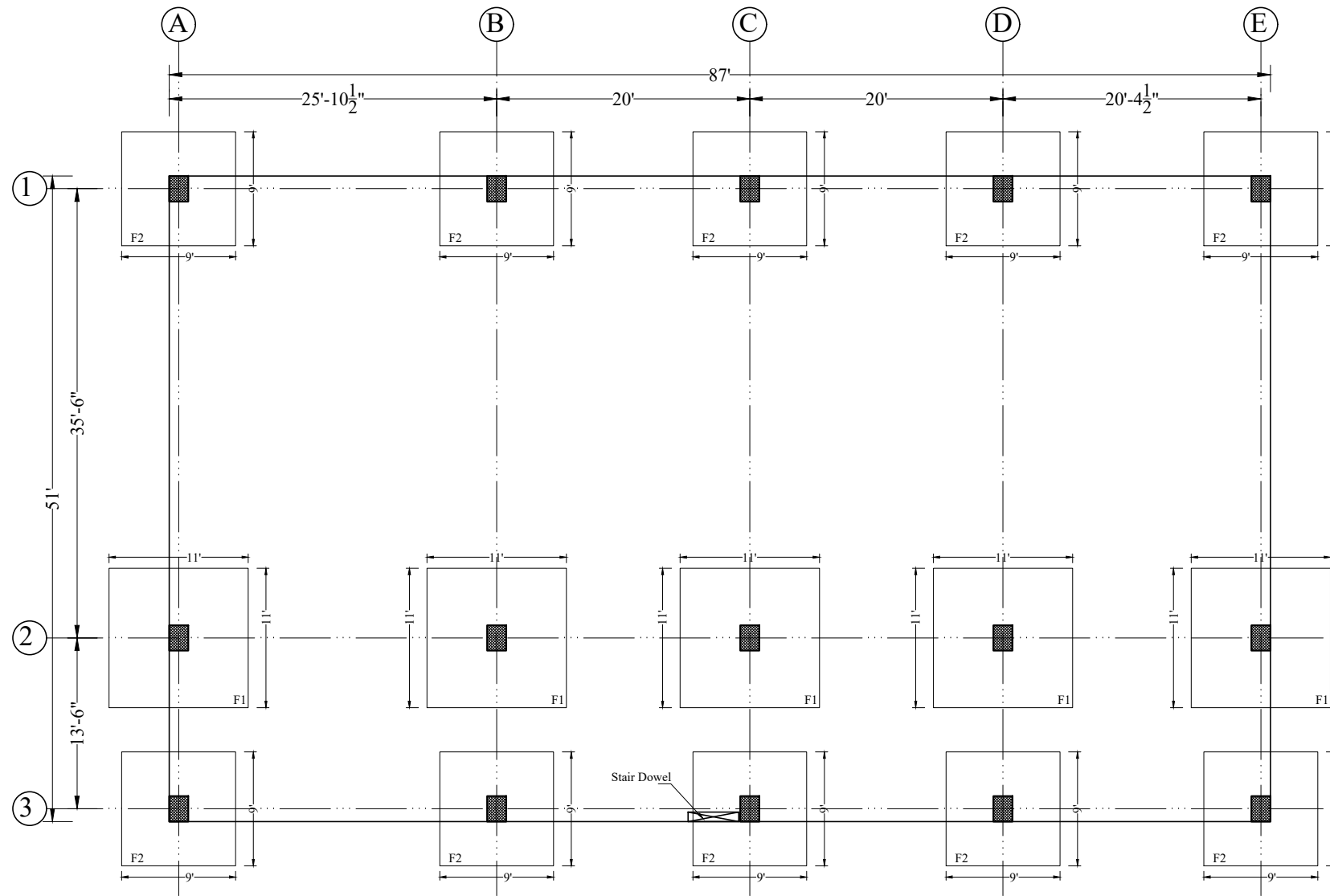
**Designmen**  
CONSULTING ENGINEERS (Pvt) LTD.

1st Floor, Block 9-West,  
Rizwan Plaza, Jinnah Avenue F-6,  
ISLAMABAD - PAKISTAN  
Ph: 92-51-2828577, 2829002  
Fax: 92-51-2307615  
E-mail: designmenislamabad@gmail.com

PROJECT:-  
**AIR UNIVERSITY  
CHINA BLOCK**


SCALE:-	DATE:- APRIL-2026	DWG No. :-	RIVISION 00
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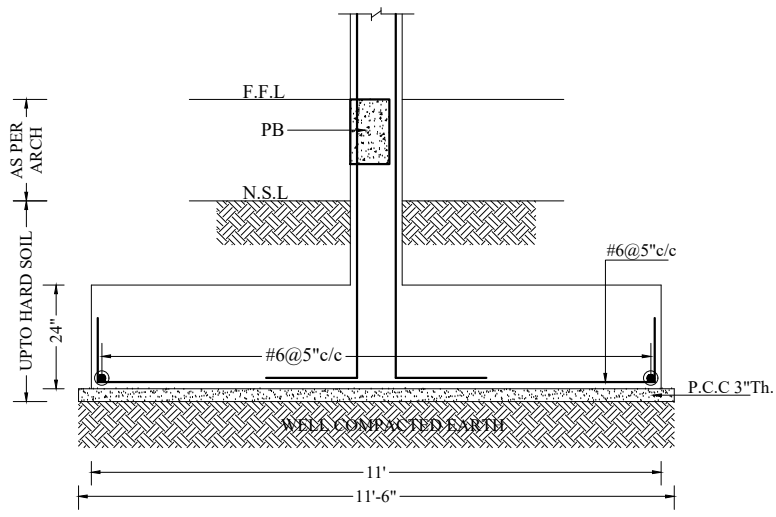
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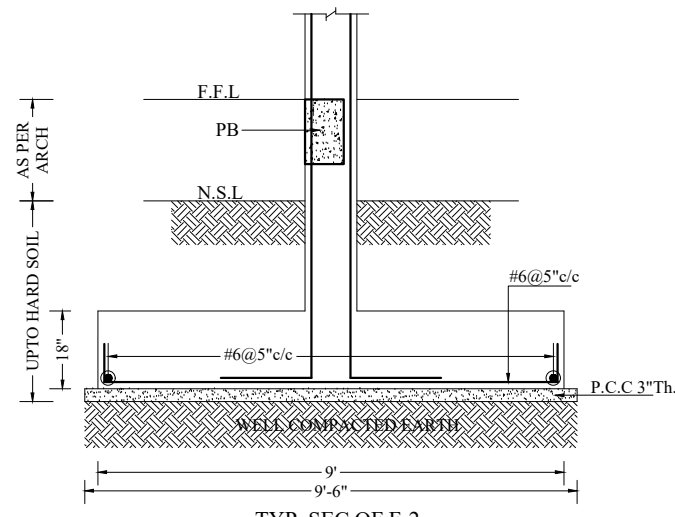
**FOUNDATION LAYOUT PLAN**

**TENDER DRAWING  
NOT FOR  
CONSTRUCTION**

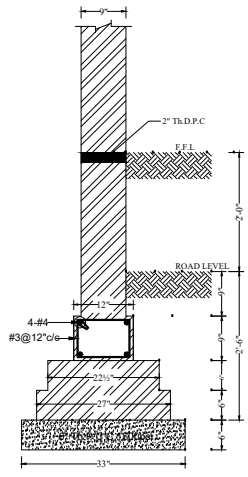
REV No.	DATE	REVISIONS	IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN	APPR.	DRAWN BY:	ASIF IQBAL	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:-	FOUNDATION LAYOUT PLAN		 <b>Designmen</b> CONSULTING ENGINEERS (Pvt) LTD. 1st Floor, Block 9-West, Rizwan Plaza, Jinnah Avenue F-6, ISLAMABAD - PAKISTAN Ph: 92-51-2828577, 2829002 Fax : 92-51-2307615 E-mail: designmenislamabad@gmail.com	
				CHECK		DESIGN BY:	ZAID UL HASSAN		TYPE OF DRAWING	ISSUED FOR:	PROJECT:-		AIR UNIVERSITY CHINA BLOCK
						STR HEAD:	NAJIB AHMAD	STRUCTURE	TENDER	SCALE:-	DATE:-	DWG No. :-	REVISION
						CAD CHECK:	ASIF IQBAL				APRIL-2026		00
						QAG CHECK:	MANSAB DAR						
						APPROVED BY:	NAJIB AHMAD						



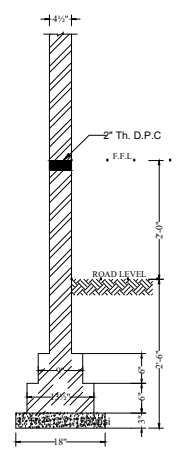
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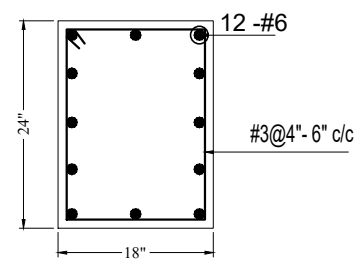
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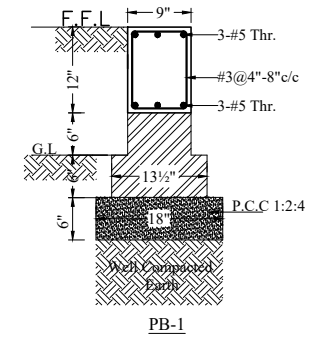
TYP. SECTION OF 9" TH. BRICK MASONRY WALL



TYP. SECTION OF 4 1/2" TH. BRICK MASONRY WALL



C1



PB-1

TENDER DRAWING  
NOT FOR  
CONSTRUCTION

REV No.	DATE	REVISIONS

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DRAWN CHECK	APPR.	DRAWN BY:	ASIF IQBAL
		DESIGN BY: <td>ZAID UL HASSAN</td>	ZAID UL HASSAN
		STR HEAD: <td>NAJIB AHMAD</td>	NAJIB AHMAD
		CAD CHECK: <td>ASIF IQBAL</td>	ASIF IQBAL
		QAG CHECK: <td>MANSAB DAR</td>	MANSAB DAR
		APPROVED BY: <td>NAJIB AHMAD</td>	NAJIB AHMAD

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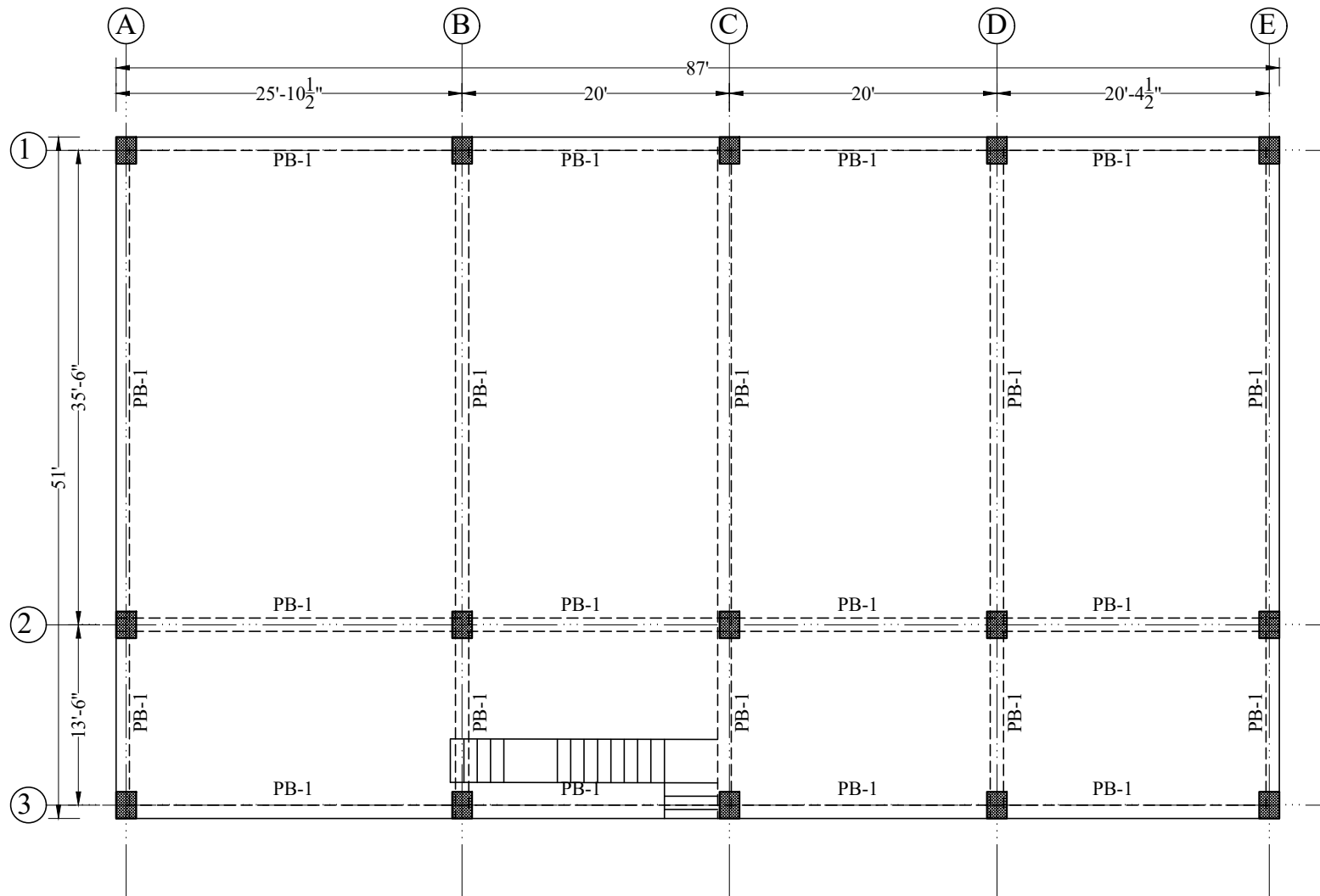
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FOUNDATION & COLUMN REINFORCEMENT DETAIL	
TYPE OF DRAWING	ISSUED FOR:
STRUCTURE	TENDER

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Rizwan Plaza, Jinnah Avenue F-6 ,  
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Ph: 92-51-2828577 , 2829002  
Fax : 92-51-2307615  
E-mail: designmenislamabad@gmail.com


PROJECT:- **AIR UNIVERSITY CHINA BLOCK**

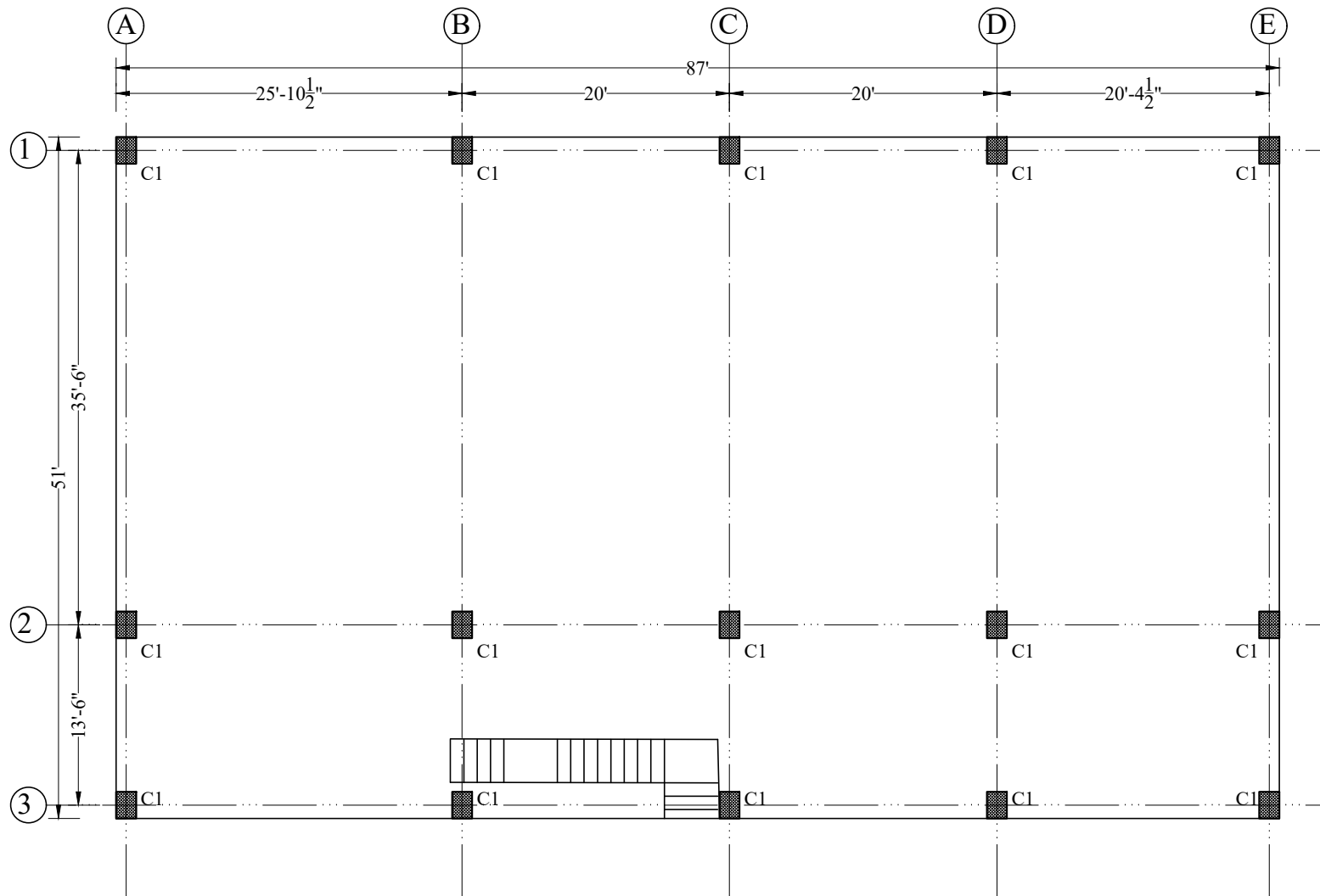
SCALE:-	DATE:- APRIL-2026	DWG No. :-	C-646-2025-S-02	REVISION 00
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**PLINTH BEAM LAYOUT PLAN**


TENDER DRAWING  
NOT FOR  
CONSTRUCTION

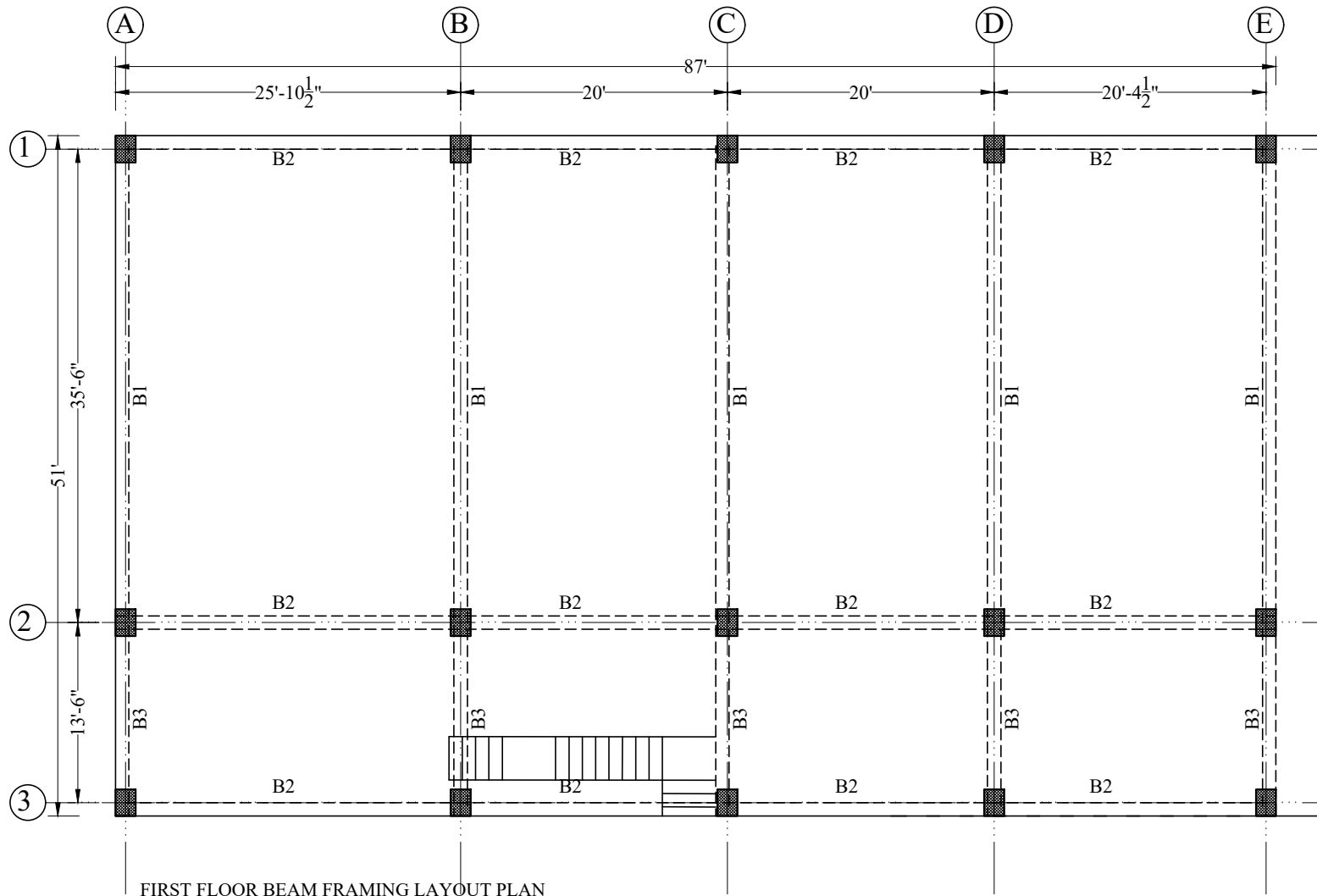
REV No.	DATE	REVISIONS	IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN	APPR.	DRAWN BY:	ASIF IQBAL	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:-	PLINTH BEAM LAYOUT PLAN		 <b>Designmen</b> CONSULTING ENGINEERS (Pvt) LTD. 1st Floor, Block 9-West, Rizwan Plaza, Jinnah Avenue F-6, ISLAMABAD - PAKISTAN Ph: 92-51-2828577, 2829002 Fax : 92-51-2307615 E-mail: designmenislamabad@gmail.com			
				CHECK		DESIGN BY:	ZAID UL HASSAN		TYPE OF DRAWING	ISSUED FOR:	PROJECT:-		AIR UNIVERSITY CHINA BLOCK		
						STR HEAD:	NAJIB AHMAD		STRUCTURE	TENDER		SCALE:-	DATE:-	DWG No. :-	REVISION
						CAD CHECK:	ASIF IQBAL						APRIL-2026		00
						QAG CHECK:	MANSAB DAR								
						APPROVED BY:	NAJIB AHMAD								



**COLUMN LAYOUT PLAN**


TENDER DRAWING  
NOT FOR  
CONSTRUCTION

REV No.	DATE	REVISIONS	IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN CHECK	APPR.	DRAWN BY:	ASIF IQBAL	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:-	COLUMN LAYOUT PLAN		 <b>Designmen</b> CONSULTING ENGINEERS (Pvt) LTD. 1st Floor, Block 9-West, Rizwan Plaza, Jinnah Avenue F-6, ISLAMABAD - PAKISTAN Ph: 92-51-2828577, 2829002 Fax : 92-51-2307615 E-mail: designmenislamabad@gmail.com	
						DESIGN BY:	ZAID UL HASSAN		TYPE OF DRAWING	ISSUED FOR:	PROJECT:-		AIR UNIVERSITY CHINA BLOCK
						STR HEAD:	NAJIB AHMAD	STRUCTURE	TENDER	SCALE:-	DATE:-	DWG No. :-	REVISION
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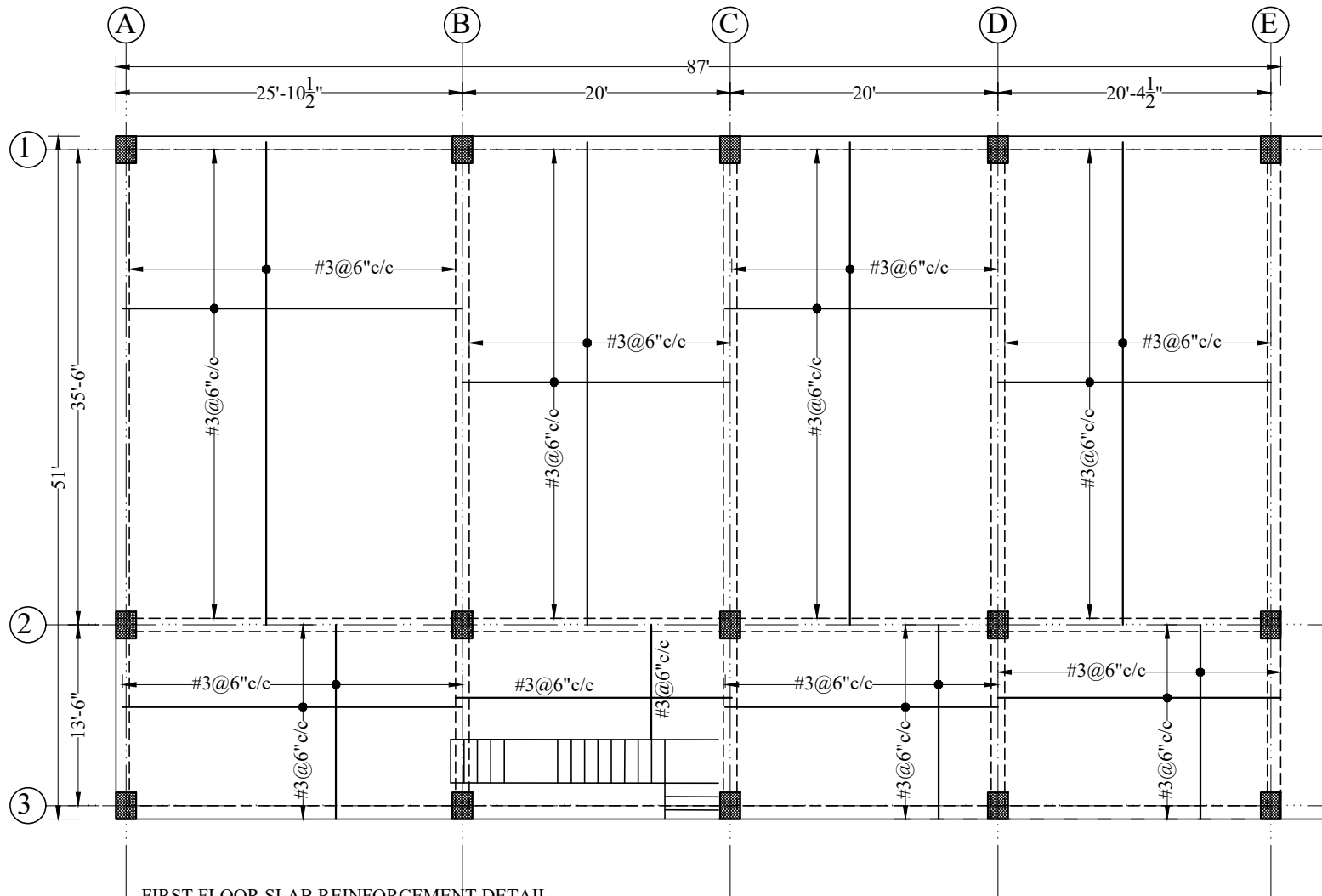


FIRST FLOOR BEAM FRAMING LAYOUT PLAN

TENDER DRAWING  
NOT FOR  
CONSTRUCTION


REV No.	DATE	REVISIONS	IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN	APPR.	DRAWN BY:	ASIF IQBAL	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:- FIRST FLOOR BEAM FRAMING LAYOUT PLAN		 <b>Designmen</b> CONSULTING ENGINEERS (Pvt) LTD. 1st Floor , Block 9-West , Rizwan Plaza, Jinnah Avenue F-6 , ISLAMABAD - PAKISTAN Ph: 92-51-2828577 , 2829002 Fax : 92-51-2307615 E-mail: designmenislamabad@gmail.com		
				CHECK		DESIGN BY:	ZAID UL HASSAN		TYPE OF DRAWING	ISSUED FOR:		PROJECT:- <b>AIR UNIVERSITY CHINA BLOCK</b>	
						STR HEAD:	NAJIB AHMAD	STRUCTURE	TENDER	SCALE:-	DATE:- APRIL-2026	DWG No. :-	RIVISION 00
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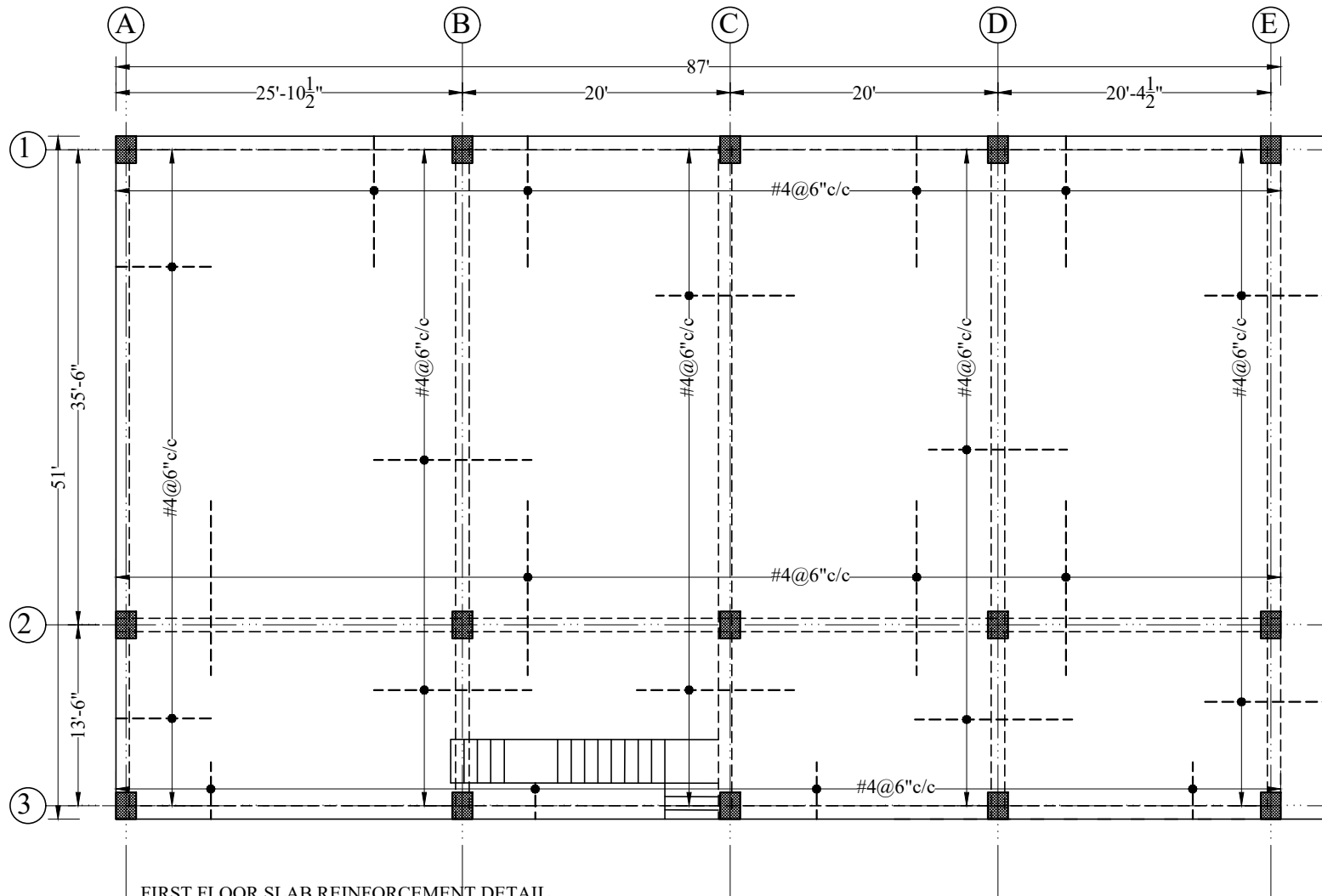




**FIRST FLOOR SLAB REINFORCEMENT DETAIL  
BOTTOM LAYER**  
All slab thickness is 6" unless otherwise noted


TENDER DRAWING  
NOT FOR  
CONSTRUCTION

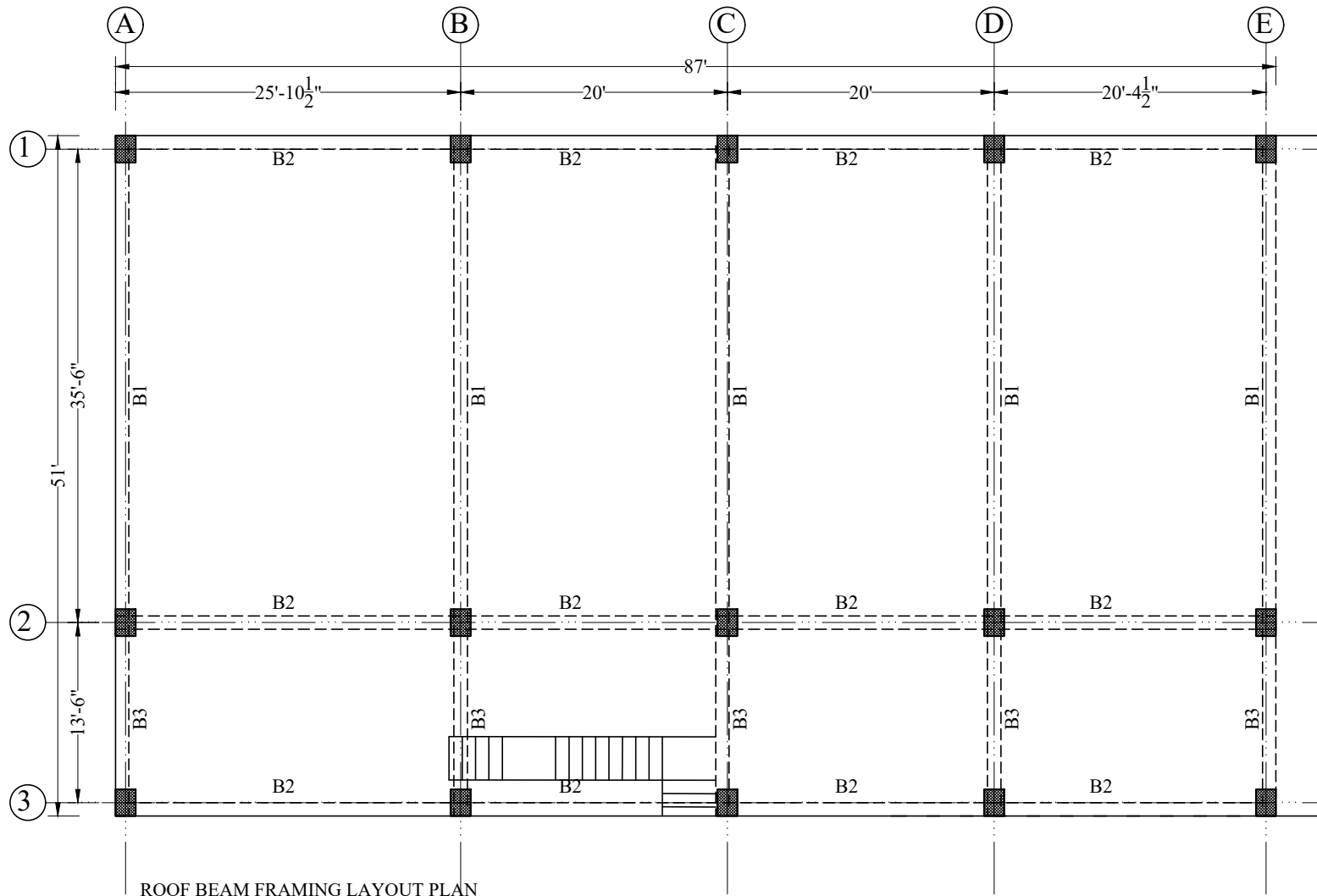
REV No.	DATE	REVISIONS	IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN CHECK	APPR.	DRAWN BY: ASIF IQBAL	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:- <b>FIRST FLOOR SLAB REINFORCEMENT DETAIL BOTTOM LAYER</b>	 <b>Designmen</b> CONSULTING ENGINEERS (Pvt) LTD. 1st Floor , Block 9-West , Rizwan Plaza, Jinnah Avenue F-6 , ISLAMABAD - PAKISTAN Ph: 92-51-2828577 , 2829002 Fax : 92-51-2307615 E-mail: designmenislamabad@gmail.com				
						DESIGN BY: ZAIID UL HASSAN		TYPE OF DRAWING STRUCTURE		ISSUED FOR: TENDER	PROJECT:- <b>AIR UNIVERSITY CHINA BLOCK</b>		
						STR HEAD: NAJIB AHMAD			SCALE:-	DATE:- APRIL-2026	DWG No. :-	C-646-2025-S-07	REVISION 00
						CAD CHECK: ASIF IQBAL							
						QAG CHECK: MANSAB DAR							
						APPROVED BY: NAJIB AHMAD							



**FIRST FLOOR SLAB REINFORCEMENT DETAIL**  
**TOP LAYER**  
 All slab thickness is 6" unless otherwise noted


TENDER DRAWING  
 NOT FOR  
 CONSTRUCTION

REV No.	DATE	REVISIONS	IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN	APPR.	DRAWN BY:	ASIF IQBAL	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:-	FIRST FLOOR SLAB REINFORCEMENT DETAIL TOP LAYER		 <b>Designmen</b> CONSULTING ENGINEERS (Pvt) LTD. 1st Floor, Block 9-West, Rizwan Plaza, Jinnah Avenue F-6, ISLAMABAD - PAKISTAN Ph: 92-51-2828577, 2829002 Fax : 92-51-2307615 E-mail: designmenislambad@gmail.com	
				CHECK		DESIGN BY:	ZAID UL HASSAN		TYPE OF DRAWING	ISSUED FOR:	PROJECT:-		AIR UNIVERSITY CHINA BLOCK
						STR HEAD:	NAJIB AHMAD	STRUCTURE	TENDER	SCALE:-	DATE:-	DWG No. :-	RIVISION
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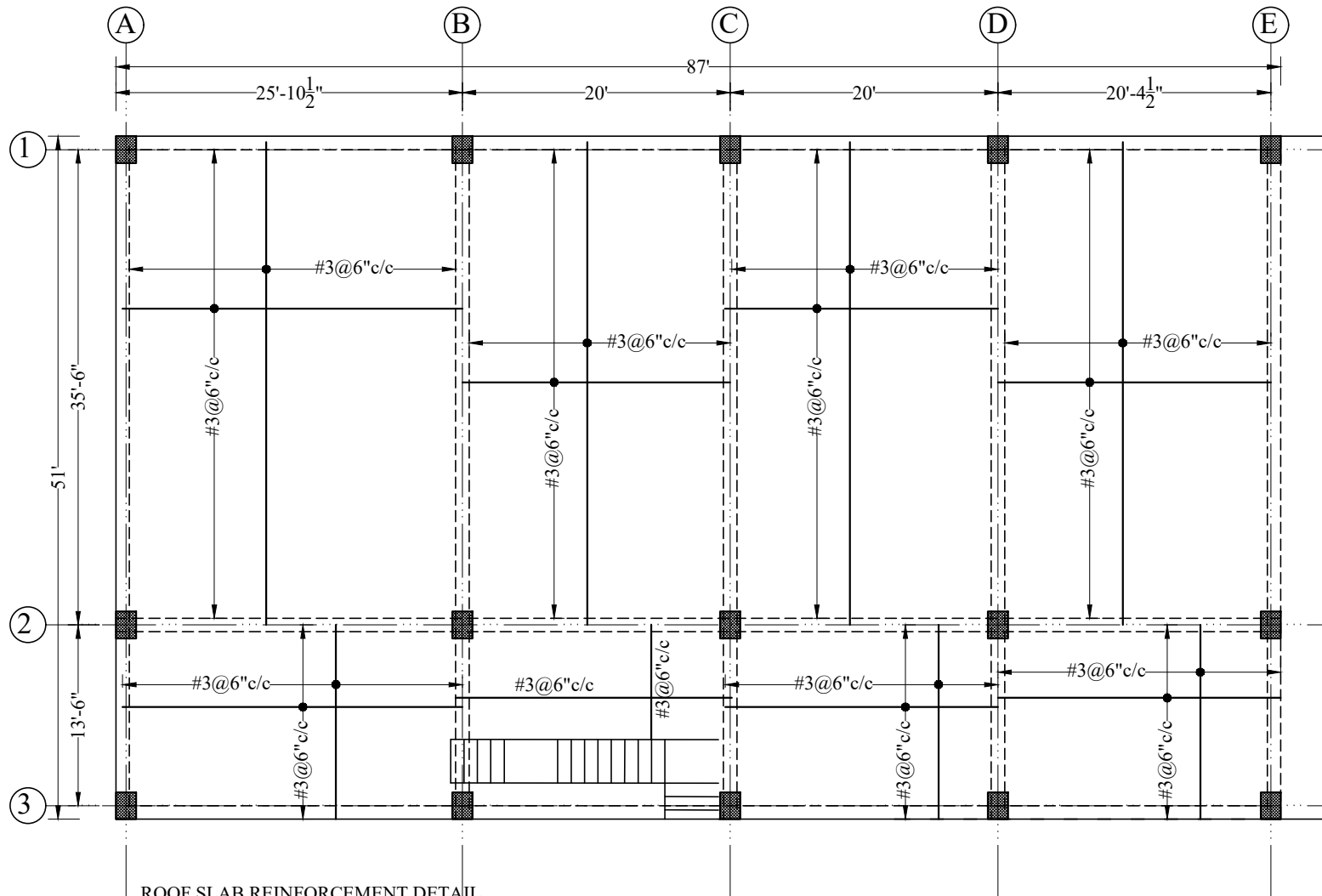


ROOF BEAM FRAMING LAYOUT PLAN

TENDER DRAWING  
NOT FOR  
CONSTRUCTION

REV No.	DATE	REVISIONS	IMPORTANT NOTE:- THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN	APPR.	DRAWN BY:	ASIF IQBAL	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:-	ROOF BEAM FRAMING LAYOUT PLAN		 <b>Designmen</b> CONSULTING ENGINEERS (Pvt) LTD. 1st Floor , Block 9-West , Rizwan Plaza, Jinnah Avenue F-6 , ISLAMABAD - PAKISTAN Ph: 92-51-2828577 , 2829002 Fax : 92-51-2307615 E-mail: designmenislamabad@gmail.com	
				CHECK		DESIGN BY:	ZAID UL HASSAN		TYPE OF DRAWING	ISSUED FOR:	PROJECT:-		AIR UNIVERSITY CHINA BLOCK
						STR HEAD:	NAJIB AHMAD	STRUCTURE	TENDER	SCALE:-	DATE:-	DWG No. :-	REVISION
						CAD CHECK:	ASIF IQBAL				APRIL-2026		00
						QAG CHECK:	MANSAB DAR						
						APPROVED BY:	NAJIB AHMAD						





**ROOF SLAB REINFORCEMENT DETAIL  
BOTTOM LAYER**  
All slab thickness is 6" unless otherwise noted

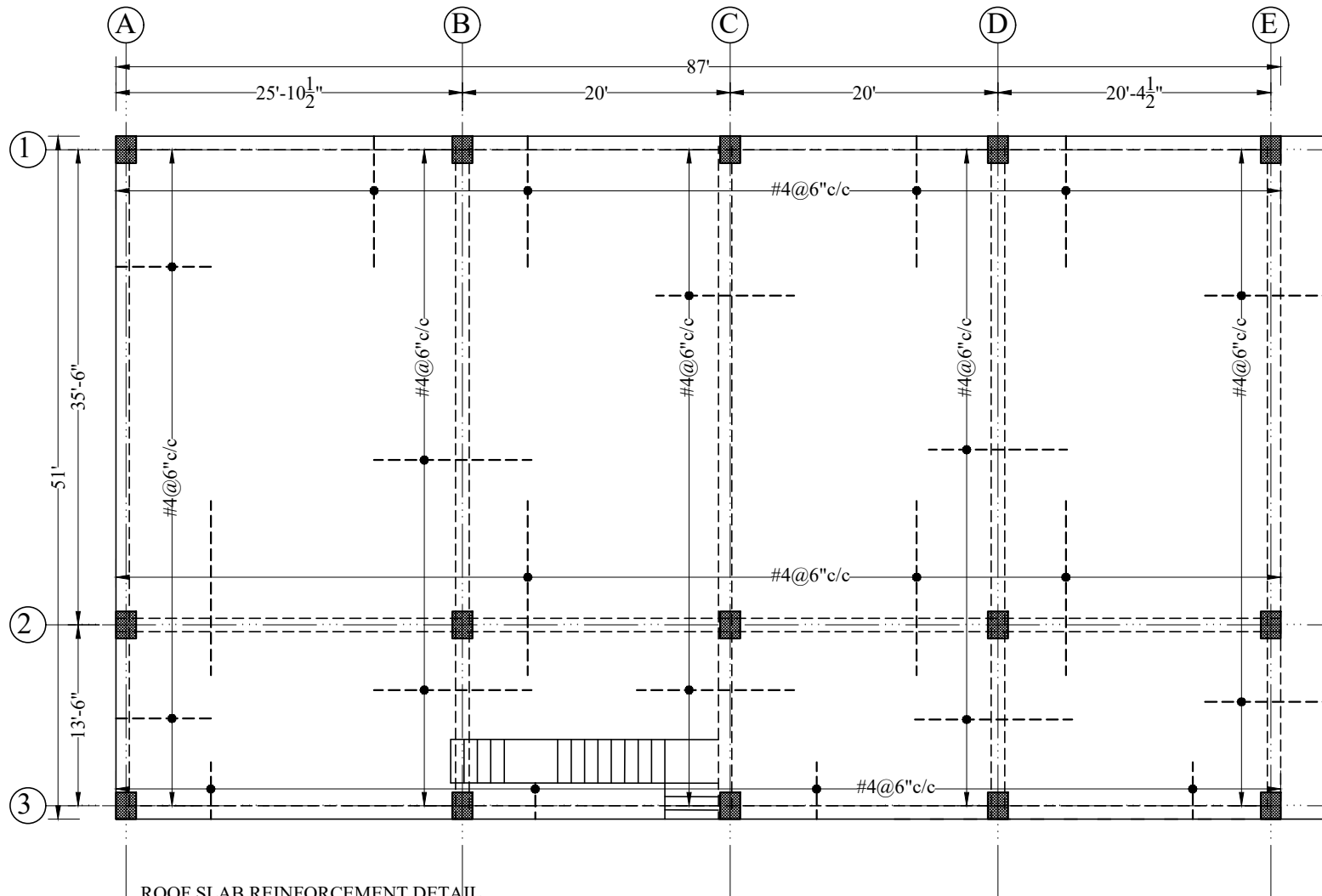
TENDER DRAWING  
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				CHECK		DESIGN BY:	ZAID UL HASSAN		TYPE OF DRAWING	ISSUED FOR:	STRUCTURE					
						DESIGN BY:	ZAID UL HASSAN									
						STR HEAD:	NAJIB AHMAD									
						CAD CHECK:	ASIF IQBAL									
						QAG CHECK:	MANSAB DAR									
						APPROVED BY:	NAJIB AHMAD									




**Designmen**  
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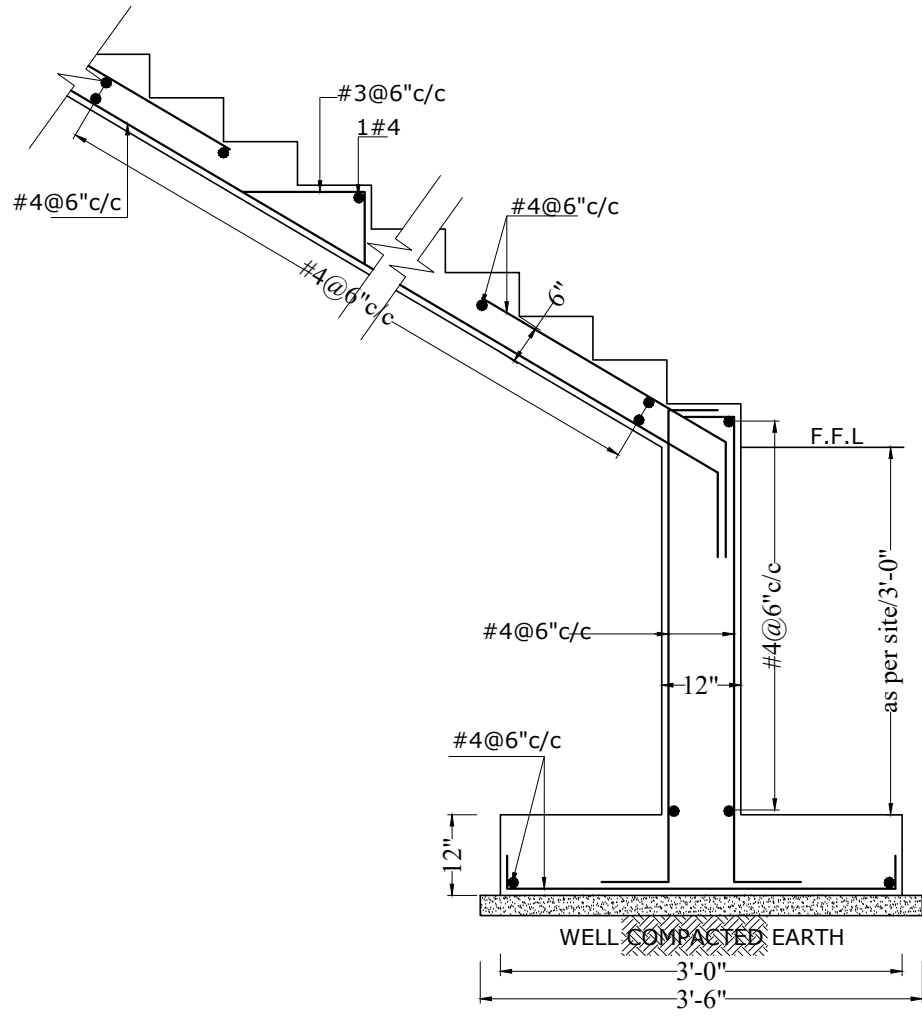
1st Floor , Block 9-West ,  
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ISLAMABAD - PAKISTAN  
Ph: 92-51-2828577 , 2829002  
Fax : 92-51-2307615  
E-mail: designmenislamabad@gmail.com




**ROOF SLAB REINFORCEMENT DETAIL**  
**TOP LAYER**  
 All slab thickness is 6" unless otherwise noted

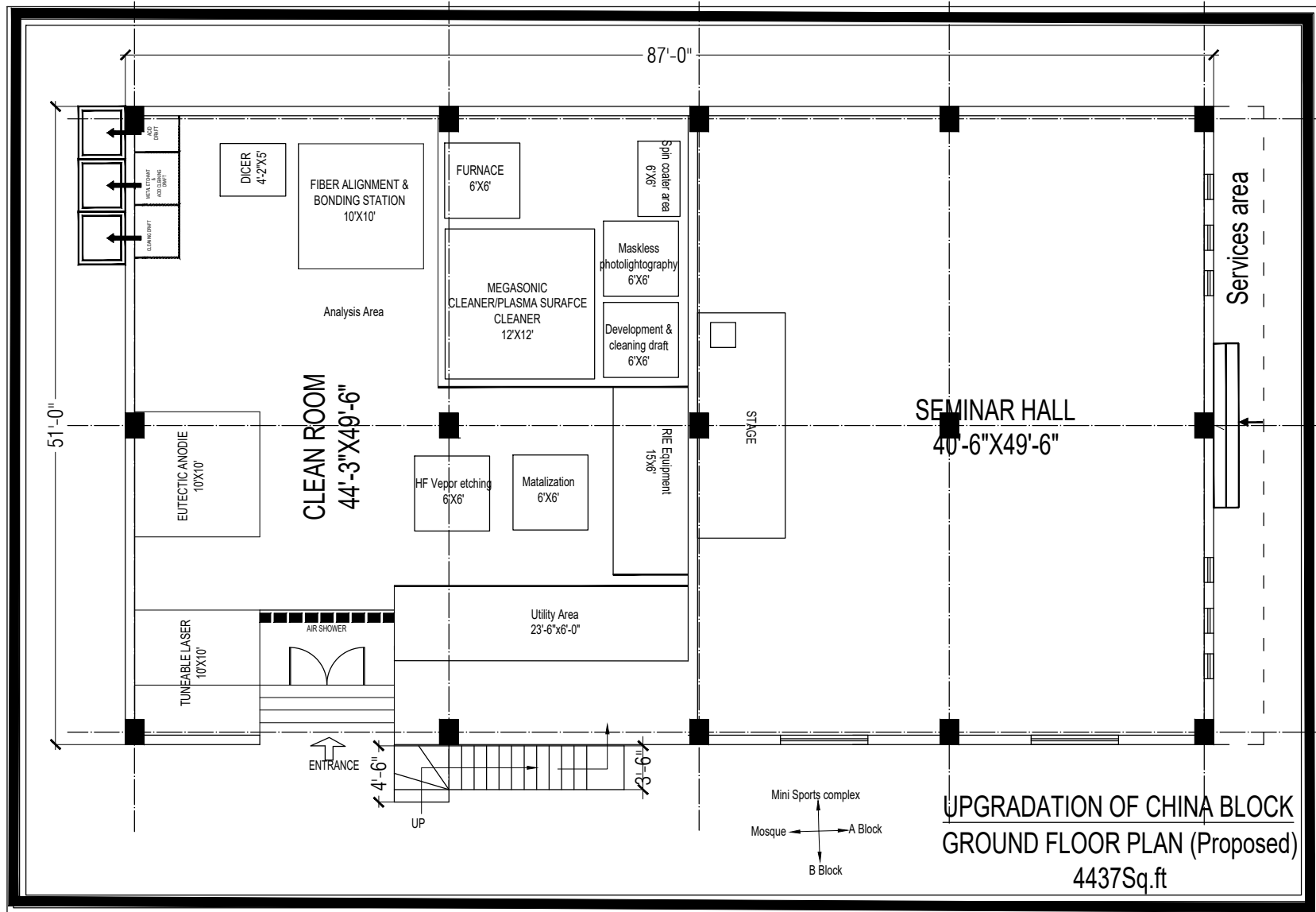
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				CHECK		DESIGN BY:	ZAID UL HASSAN		TYPE OF DRAWING	ISSUED FOR:		PROJECT:- <b>AIR UNIVERSITY</b> <b>CHINA BLOCK</b>			
						STR HEAD:	NAJIB AHMAD	STRUCTURE	TENDER	SCALE:-	DATE:- APRIL-2026	DWG No. :-	C-646-2025-S-12	REVISION	00
						CAD CHECK:	ASIF IQBAL								
						QAG CHECK:	MANSAB DAR								
						APPROVED BY:	NAJIB AHMAD								



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REV No.	DATE	REVISIONS	<b>IMPORTANT NOTE:-</b> THE OWNER WILL APPOINT SUPERVISOR FOR CONSTRUCTION OF THIS STRUCTURE. THE OWNER AND THE SUPERVISOR ARE RESPONSIBLE FOR QUALITY AND STABILITY OF BUILT STRUCTURE. THE STRUCTURE ENGINEER/ARCHITECT IS ONLY RESPONSIBLE FOR STRUCTURAL/ARCHITECTURAL DESIGN OF THE BUILDING, RESPECTIVELY.	DRAWN CHECK	APPR.	DRAWN BY:	ASIF IQBAL	COPYRIGHT:- THE ORIGINAL OF THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DESIGNMEN AND THE ACCEPTANCE OF THIS PRINT CONSTITUTES AN AGREEMENT THAT IT WILL BE TREATED AS A CONFIDENTIAL DOCUMENT TO BE USED FOR NO PURPOSE OTHER THAN AS EXPRESSIVELY DESIRED / ALLOWED BY DESIGNMEN. THESE DRAWINGS ARE NOT TO BE COMMUNICATED, DISCLOSED, COPIED OR PUBLISHED EXCEPT AS EXPRESSLY AUTHORISED IN WRITING BY DESIGNMEN.	TITLE:- <b>STAIR'S REINFORCEMENT DETAIL</b>		 <b>Designmen</b> CONSULTING ENGINEERS (Pvt) LTD. 1st Floor, Block 9-West, Rizwan Plaza, Jinnah Avenue F-6, ISLAMABAD - PAKISTAN Ph: 92-51-2828577, 2829002 Fax : 92-51-2307615 E-mail: designmenislamabad@gmail.com					
							DESIGN BY:		ZAID UL HASSAN	TYPE OF DRAWING		ISSUED FOR:				
							STR HEAD:		NAJIB AHMAD				STRUCTURE	TENDER		
							CAD CHECK:		ASIF IQBAL	PROJECT:- <b>AIR UNIVERSITY CHINA BLOCK</b>						
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							APPROVED BY:		NAJIB AHMAD							00



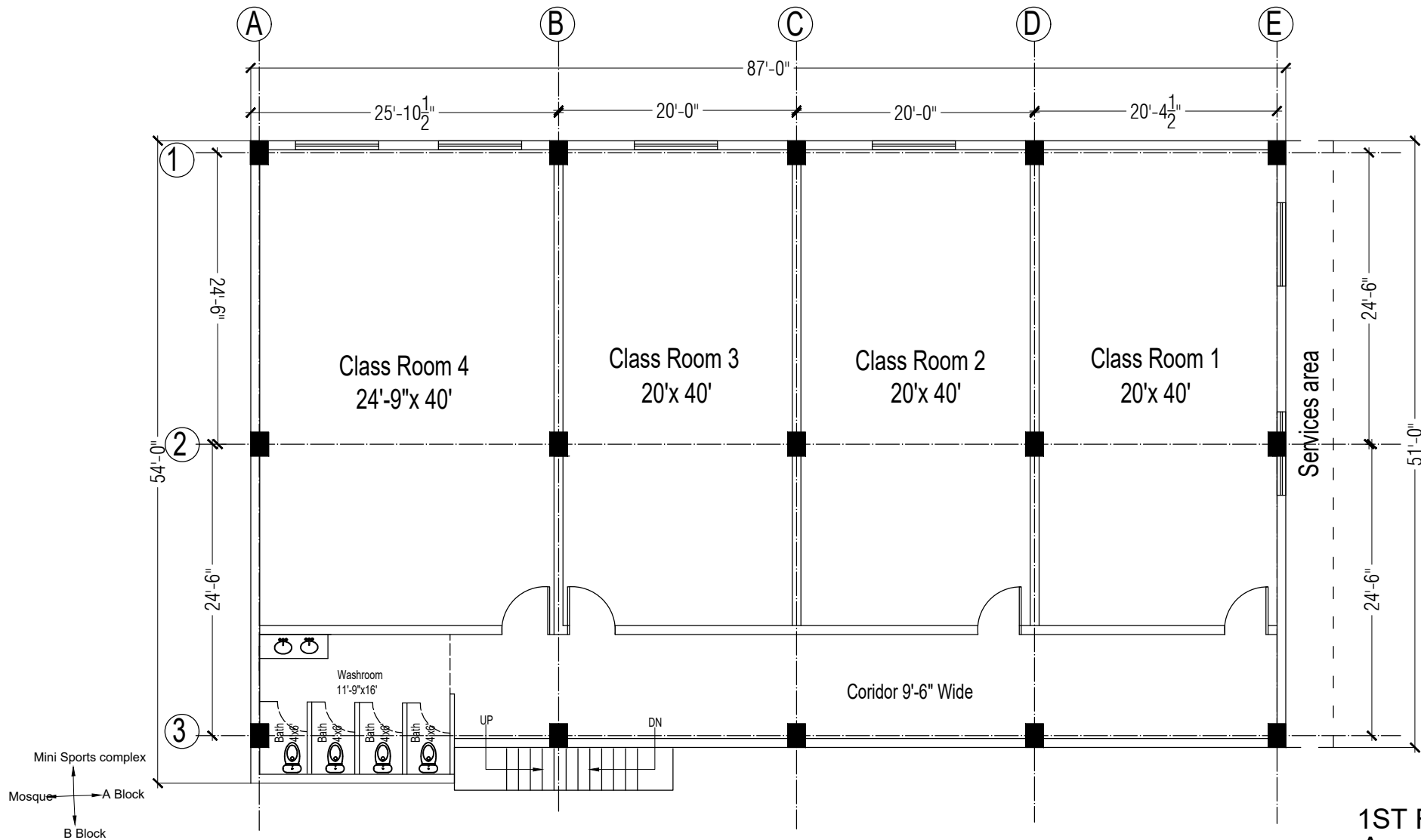
REV No.	DATE	REVISIONS	IMPORTANT NOTE:-	DRAWN CHECK	APPR.	DRAWN BY:	NAZNEEN KHATTAK	COPYRIGHT:-	TITLE:-	TYPE OF DRAWING	ISSUED FOR:	PROJECT:-	SCALE:-	DATE:-	DWG No. :-	REVISION
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						STR HEAD:	NAJIB AHMAD									
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Fax: 92-51-2307615  
E-mail: designmenislamabad@gmail.com

PROJECT:-	AIR UNIVERSITY CHINA BLOCK		
SCALE:-	DATE:-	DWG No. :-	REVISION
	APRIL-2026	C-648-2025-S-11	00



**1ST FLOOR PLAN**  
Area = 4500Sq.ft

REV No.	DATE	REVISIONS	IMPORTANT NOTE:-	DRAWN CHECK	APPR.	DRAWN BY:	NAZNEEN KHATTAK	COPYRIGHT:-	TITLE:-	TYPE OF DRAWING	ISSUED FOR:	PROJECT:-	SCALE:-	DATE:-	DWG No. :-	REVISION
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						STR HEAD:	NAJIB AHMAD									
						CAD CHECK:	ASIF IQBAL									
						QAG CHECK:	AR HAMZA RAHMAN									
						APPROVED BY:	NAJIB AHMAD									

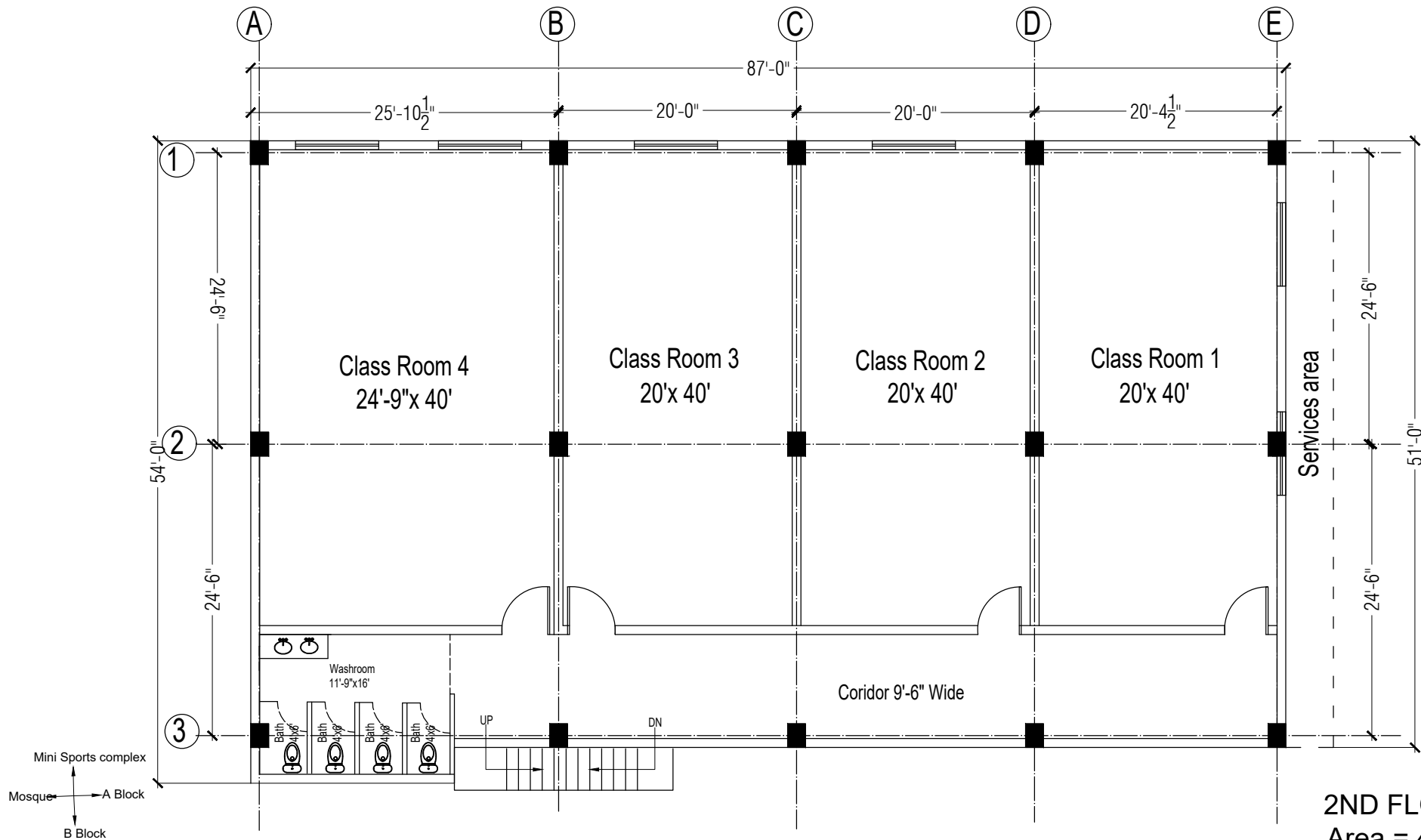


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Fax: 92-51-2307615  
E-mail: designmenislambad@gmail.com

PROJECT:-	<b>AIR UNIVERSITY</b> CHINA BLOCK		
SCALE:-	DATE:-	DWG No. :-	REVISION
	APRIL-2026	C-646-2025-S-11	00

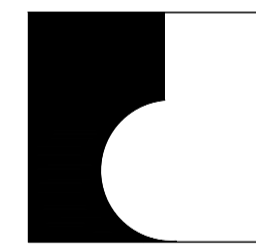


**2ND FLOOR PLAN**  
Area = 4500Sq.ft

REV No.	DATE	REVISIONS	IMPORTANT NOTE:-		DRAWN CHECK	APPR.	DRAWN BY:	NAZNEEN KHATTAK	COPYRIGHT:-	TITLE:-		1st Floor , Block 9-West , Rizwan Plaza, Jinnah Avenue F-6 , ISLAMABAD - PAKISTAN			
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							STR HEAD:	NAJIB AHMAD		TYPE OF DRAWING	ISSUED FOR:	PROJECT:-			
							CAD CHECK:	ASIF IQBAL		ARCHITECTURE	TENDER	AIR UNIVERSITY CHINA BLOCK			
							QAG CHECK:	AR HAMZA RAHMAN				SCALE:-	DATE:-	DWG No. :-	REVISION
							APPROVED BY:	NAJIB AHMAD					APRIL-2026		C-648-2025-S-11 00

AIR UNIVERSITY  
CHINA BLOCK

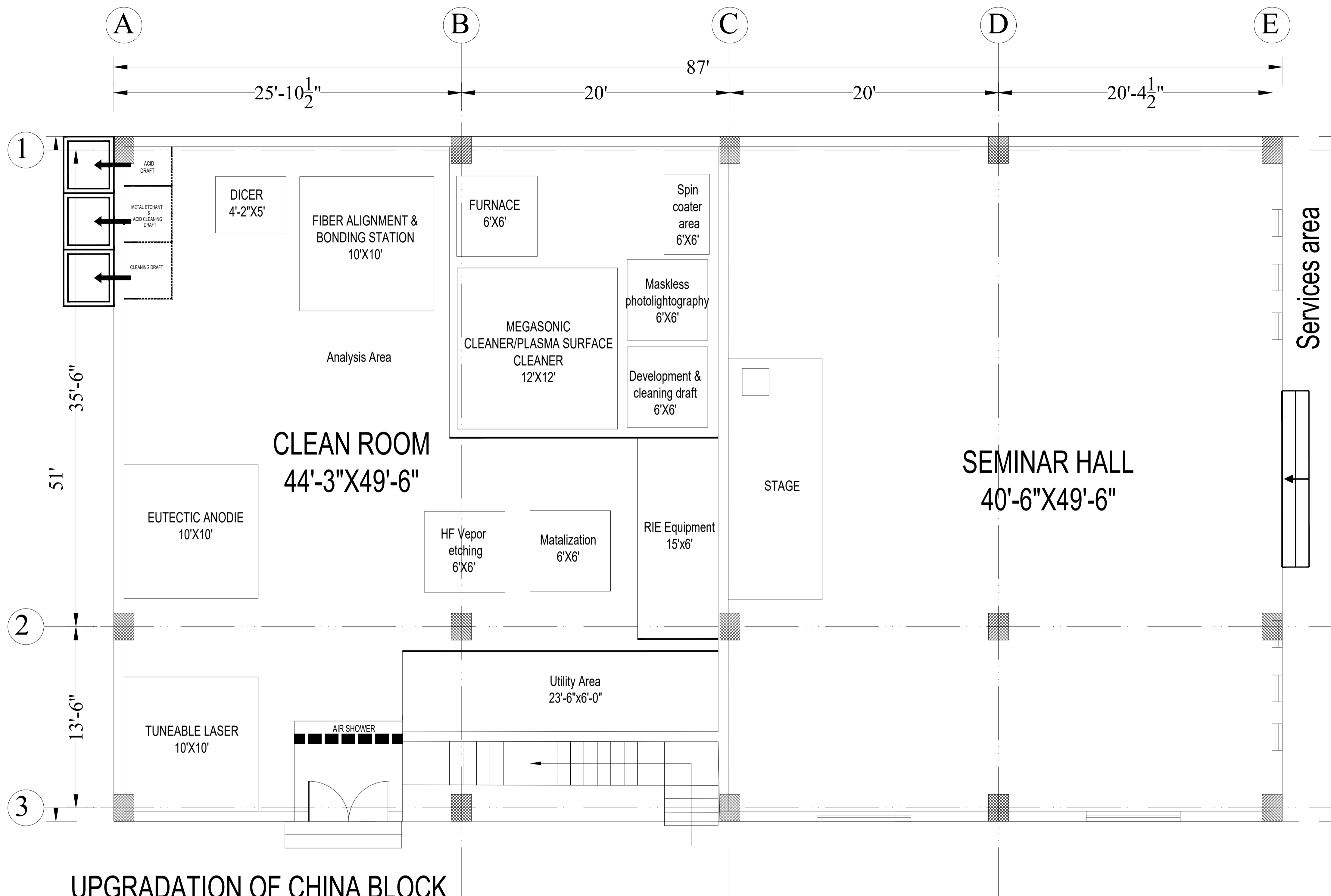
TENDER DRAWINGS  
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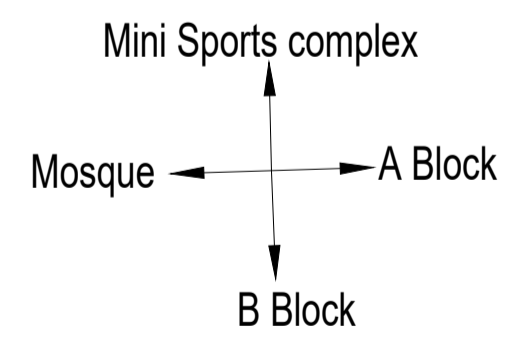
Designmen Consulting Engineers (Pvt.) Ltd.

1st Floor , Block 9-West , Blue Area  
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Fax : 92-51-2307615

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**UPGRADATION OF CHINA BLOCK**  
**GROUND FLOOR PLAN (Proposed)**  
**4437Sq.ft**



REV No.	DATE	REVISIONS

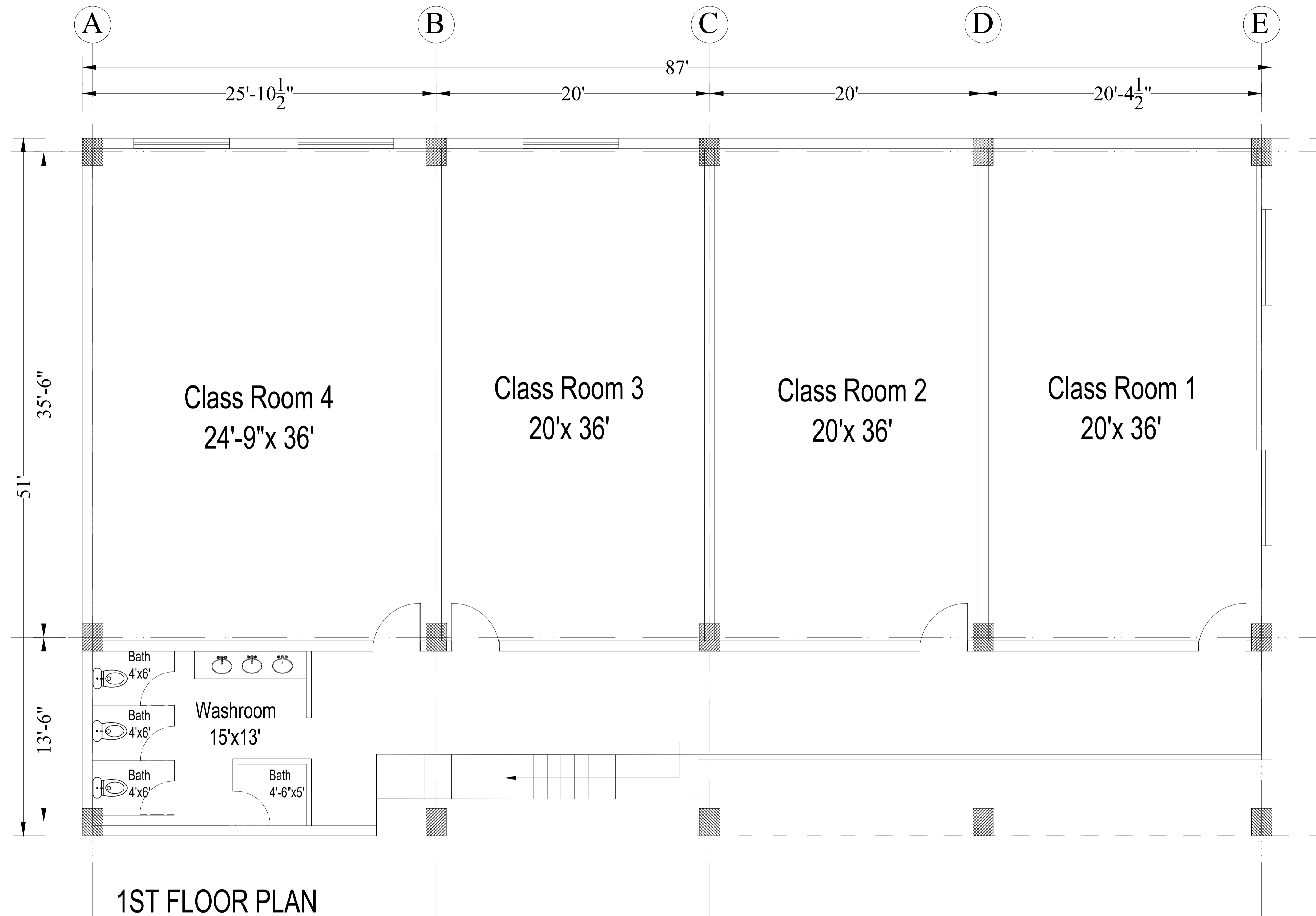
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		DESIGN BY:	AR IMRAN KHAN
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		QAG CHECK:	AR HAMZA RAHMAN
		APPROVED BY:	NAJIB AHMAD

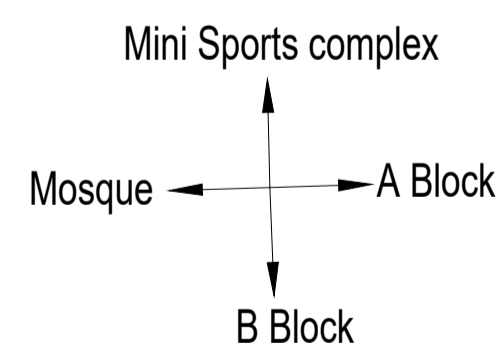
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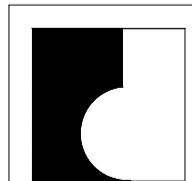
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ROOF SLAB REINFORCEMENT DETAIL	
TYPE OF DRAWING	ISSUED FOR:
ARCHITECTURE	TENDER

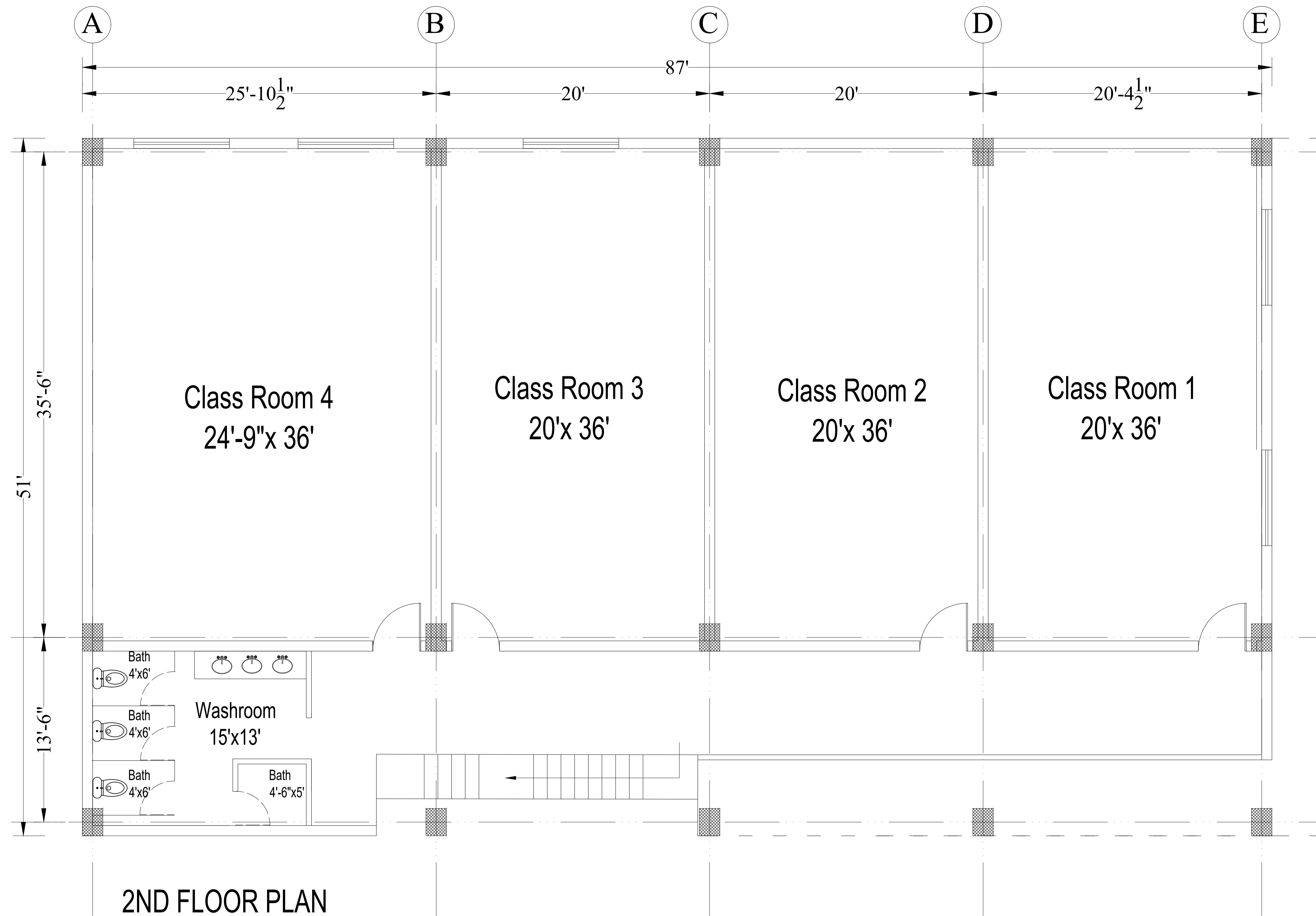
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	<b>PROJECT:-</b> AIR UNIVERSITY CHINA BLOCK	
SCALE:-	DATE:- APRIL-2026	DWG No. :- C-646-2025-S-11
		REVISION 00



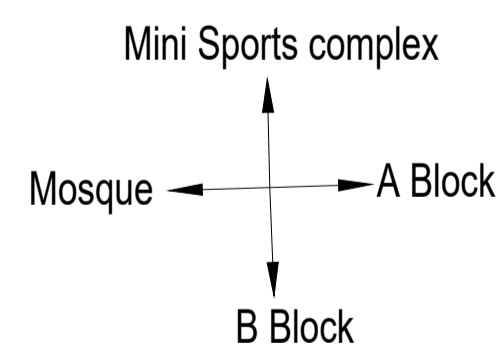
1ST FLOOR PLAN

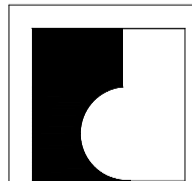


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						DESIGN BY:	AR IMRAN KHAN		1ST FLOOR PLAN			
						STR HEAD:	NAJIB AHMAD		TYPE OF DRAWING	ISSUED FOR:		PROJECT:-
						CAD CHECK:	ASIF IQBAL		ARCHITECTURE	TENDER		AIR UNIVERSITY CHINA BLOCK
						QAG CHECK:	AR HAMZA RAHMAN		SCALE:-	DATE:-		DWG No. :-
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**2ND FLOOR PLAN**



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						DESIGN BY: AR IMRAN KHAN		TYPE OF DRAWING ARCHITECTURE	ISSUED FOR: TENDER		SCALE:-
						STR HEAD: NAJIB AHMAD					
						CAD CHECK: ASIF IQBAL					
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