

Request for Proposal (RFP)
Facade
Asian University for Women (AUW), Arefin Nagar Campus
Summary Sheet

Name of the company	Asian University for Women
Procurement Reference Number	Package/ Facade /25_26
Date of issue of the RFP	29 January 2026
Date and Closing Time for RFP submission	8 March 2026 (12:01PM) (GMT +6)
Quotation submission mail address	tender154@auw.edu.bd
Address for Communication	Asian University for Women 20/A M. M. Ali Road Chattogram 4000, Bangladesh Tel: +880-31-285-4980 Fax: +880-31-285-4988

Bidders are invited to submit their proposals in accordance with the terms outlined in the enclosed Request for Proposal (RFP).

AUW reserves the right to reject any or all offers without providing any reason.

Confidentiality must be strictly maintained. The information provided here should only be used for its intended purpose and scope. By retaining this RFP, you agree to treat all information as confidential.

All communications regarding this Request for Proposal should be directed to AUW, with copies sent to the email addresses listed in the RFP email.

For any further queries, please contact:

- **Primary Point of Contact for RFP Process and Technical Queries:**

Mohammed Ishrat Bin Mahbub

Director of Supply Chain Management

Email: mohammed.mahbub@auw.edu.bd

Contact Number: +8801926673027; Whatsapp: +8801671470348

Proposals should be submitted only to the following email: tender154@auw.edu.bd

No other AUW email address should be used in the "To," "CC," or "BCC" fields. Any proposal that violates this instruction may be disqualified.

RFP and Tender Notice

Asian University for Women (AUW) is committed to adhering to the highest standards of financial integrity and management best practices in all aspects of its operations, including RFPs, Tender Notices, and campus construction. We value respect for all, high standards for occupational health and safety, environmental preservation, and equality of men and women as workers and their entitlements for equal wage for equal work. We encourage all our contractors to employ at least 50% women in their workforce. Should anyone notice or otherwise come to know of any practice or incidence of malfeasance, corruption, unlawful or disrespectful treatment or unsafe living or working conditions, avoidable environmental degradation or mismanagement in any form, they may write in full confidentiality to the Secretary of the Board of Trustees. In case of receipt of any such submission with sufficient specificity, an independent agency may investigate the matter and respond to the writer and if appropriate, to the public.

boardsecretary@asian-university.org

AUW is a privately funded independent international university governed by its Board of Trustees with a public service mission. All decisions relating to its management are at the sole discretion of its Board of Trustees.

Thank you for helping AUW achieve the highest ethical and management standards.



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Executive Summary

This Request for Proposal (RFP) seeks qualified and experienced firms to design, supply, install a complete Facade for the Asian University for Women (AUW) Main Academic Building. The project aims to ensure the curtain wall installation in accordance with architectural intent, structural integrity of the academic building design by conforming national and international standards.

Project Implementation Schedule

The successful bidder shall complete the works within the stipulated time frame stated in the Letter of Award. The indicative timeline for implementation is as follows:

- Design submission and approval: within 30 working days from award.
- Material delivery: within 90 working days from design approval.
- Material installation: within 120 working days from material delivery.
- Testing and commissioning: within 30 working days after installation.
- Total completion period: 240 working days from the date of contract signing.

Proposal Evaluation Methodology

All proposals will be evaluated in accordance with AUW procurement procedures and applicable regulations. Evaluation will be conducted based on the following criteria:

- Technical compliance with specifications (30%)
- Relevant experience and qualifications (30%)
- Financial proposal and competitiveness (40%)

Proposals shall first be evaluated against mandatory technical pass/fail criteria. Any proposal failing to meet any mandatory requirement shall be rejected without financial evaluation.

The contract will be awarded to the bidder offering the most advantageous proposal, technically compliant and commercially competitive.

Warranty and Post-Installation Support

Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace

- Aluminum windows/Facade that fail in materials or workmanship within specified warranty period.
- All warranties shall be back-to-back, jointly and severally enforceable against the Contractor and the respective manufacturers or suppliers. Warranty obligations shall survive termination or completion of the Contract and shall not be affected by subcontracting or supplier changes.

Failures include, but are not limited to, the following:

1. Failure to meet performance requirements.

- Structural failures including excessive deflection.
- Water leakage, air infiltration, or condensation.
- Faulty operation of movable sash and hardware.
- Deterioration of metals, metal finishes, and other materials beyond normal weathering.
- Insulating glass failure.



- Warranty Period: Five years from date of Substantial Completion.
- Warranty Period for Metal Finishes: 15 years from date of Substantial Completion
- Warranty Period for Glass: 10 years from date of Substantial Completion

Training and Handover

Upon completion, the contractor shall conduct a comprehensive training session for AUW's designated staff on maintenance. The contractor shall submit the following documents prior to handover:

- As-built drawings
- Warranty certificates

Confidentiality and Compliance

The contractor shall maintain strict confidentiality of all information and documents provided by AUW. All works shall comply with Bangladesh National Building Code (BNBC). The contractor shall be responsible for obtaining necessary clearances and ensuring safety during execution.

Scope of Work

The scope of work should be updated to focus on the Facade. The facade shall be responsible for the complete execution design, supply, installation, testing, commissioning, and handover of the Facade system in accordance with international codes and standards. The scope includes, but is not limited to, the following:

1. Site Assessment and Mobilization

- Conduct site visits and assessments as required.
- Mobilize resources and set up utility service connections for the site office (if required).

2. Design and Documentation

The Contractor shall be fully responsible for the façade system engineering, including but not limited to:

- Structural adequacy of façade components.
- Lateral load resistance and deflection control
- Thermal movement and expansion.
- Anchorage design and connection to structure.
- Water, air, and structural performance.
- All façade structural calculations shall be prepared, signed, and sealed by a qualified Professional Engineer and submitted for review and approval prior to fabrication.
- Prepare CURTAIN WALL system design drawings and obtain approval from relevant authorities.
- Prepare any necessary plan, drawings etc.
- Develop shop drawings based on the GFC layout and obtain approval from the Client and Consultant before execution.
- Submit an execution schedule that accounts for both imported and local materials.
- Submit material samples (from the approved BOQ brand list) for approval.
- Prepare all required documentation, including as-built drawings, calculations, and handover documents, in compliance with relevant codes.

3. Supply and Installation

- Provision and installation of equipment and accessories as per drawings and specifications.
- Include any necessary electrical, mechanical, civil, or other items not explicitly covered in the supporting BOQ or technical specifications.
- Manage on-site storage of both imported and local materials, with proper records maintained by the storekeeper.
- Execute work strictly in accordance with approved shop drawings.

4. Technical Team Assignment

- Assign a dedicated technical team (Project Manager, Project Engineer, Safety Officer, etc.) to be continuously available throughout execution.

5. Reporting and Progress Monitoring

- Prepare and submit supporting documents, including:
 - Daily field reports
 - Monthly progress reports
 - Material inspection reports
 - Requests for inspection throughout execution

7. Post-Handover Documentation and Training

- Prepare and submit all post-handover documentation for the façade system, including:
 - Maintenance Manuals
 - As-built drawings
 - Warranty certificate
 - Necessary Test certificates
 - Spare parts list and Sourcing list

8. General Conditions:

- Prepare shop drawings based on the GFC layout, and need to be approved by the client and consultant prior to of execution.
- Submit the actual execution schedule, taking into account both imported and local materials.
- Prepare documentation works including as-built drawings and handover documents in compliance with relevant codes upon completion of execution.
- Submit material samples based on the brand list for approval by the client's technical team and consultant.
- Manage on-site storage for imported and local materials with proper record by the store keeper.
- Include any necessary items for implementing curtain wall system (i.e, electrical. mechanical, civil etc.) which is not included in the supporting BOQ and technical specifications should be considered in the shop drawings before execution.
- Execution works must be carried out in accordance with the approved shop drawings.
- Assign a dedicated technical team/engineer (i.e., Project Manager, Project Engineer, Safety Officer etc.) to be continuously available during execution.



- Ensure the quality of execution meets all compliance and code requirements.
- Prepare and submit all necessary supporting documents such as daily field reports, monthly progress reports, material inspection reports, and requests for inspection throughout the execution period.
- Prepare post-handover documents
- If any item brands are missing from the BOQ the contractor shall follow the technical specifications when selecting product brands.
- All foreign and local items may undergo factory inspection upon client's request prior to shipment or delivery.
- Penalty must be claimed by Client to the contractor for any damage of existing structure and property. Penalty amount shall be decided by Client.
- Contractor will arrange Labor ID for all their workers. It is prohibited to engage any under aged (below 18 years) worker
- Installation means fitting of fixtures all types of local and foreign materials and it has to done according approved drawing
- All utility bills during execution of work shall be borne by contractor
- Any faulty and defective or substandard work done by contractor shall be rectified by contractor at its own cost
- Contractor, on behalf of themselves and the manufacturer's commitment will ensure the best standards of quality, quantity, specifications etc. The supplier on behalf of themselves and the Manufacturers will ensure that there will be no latent or patent defects either in the components of the Glass, Profile, ACP etc. or its installation, that all the components are brand new and of adequate and generally acceptable by international standards
- Contractor will exercise diligence in ensuring the safe and intact condition of the imported goods from point of shipment to that of commissioning.
- Contractor must take all kinds material approval related to Façade/Glazing work prior execution the work at site, also contractor attach the necessary material test report for frame, Glass, sealant etc.
- Contractor Must submit work Method statement & Work schedule in Grant chart with detail WBS
- Submittal from contractor- Product Data: Include construction details, material descriptions, fabrication methods, dimensions of individual components and profiles, hardware, finishes, and operating instructions for each type. Shop Drawings: Include plans, elevations, sections, details, hardware, attachments to other Work, operational clearances, and the following:
 - Mullion details, including reinforcement and stiffeners.
 - Joinery details.
 - Expansion provisions.
 - Flashing and drainage details.
 - Weather-stripping details.
 - Thermal-break details.
 - Glazing details.
 - Window/Façade cleaning provisions.
 - Window System Operators: Show locations, mounting, and details for installing operator



For installed products indicated to comply with design loads, include structural analysis data signed and sealed by the qualified professional engineer responsible for their preparation and used to determine the following:

- Structural test pressures and design pressures from basic wind speeds indicated.
- Deflection limitations of glass framing systems.
- Maintenance Data: For operating hardware, weather stripping and finishes to include maintenance manuals.
- Product Test Reports: Based on evaluation of comprehensive tests performed within the last four years by a qualified testing agency, for each type, grade, and size of aluminum window/Façade.
- Include if any necessary items related to Glazing & Façade which is not included in the supporting BOQ, technical specifications & GFC layout should be considered in the shop drawings & need to be approved by the consultant & technical experts of AUW before execution.
- The Contractor shall submit a Project-Specific HSE Plan prior to mobilization. Employer reserves the right to suspend works for serious or repeated safety violations without entitlement to time or cost compensation.

These are preliminary checks before performance testing:

1. **Visual inspection** – for scratches, cracks, chips, sealant voids, glass breakage, or stains.
2. **Alignment and plumpness check** – façade verticality and horizontal alignment.
3. **Joint width and sealant thickness** – check against approved drawings and specifications.
4. **Gasket and weather seal continuity** – ensure no gaps or dislodgment.
5. **Anchorage and fixing inspection** – verify brackets, bolts, and inserts are properly tightened and corrosion-protected.
6. **Drainage and weep holes** – confirm unobstructed drainage path.

B. Air & Water Performance Tests

Usually conducted as per **ASTM** or **AAMA** standards.

1. Air Infiltration Test

- **Standard:** ASTM E783 / AAMA 502
- **Purpose:** Check the air leakage through joints and framing members under differential pressure.
- **Equipment:** Chamber test setup with blower door and pressure sensors.

2. Water Penetration Test

- **Standard:** ASTM E1105 / AAMA 501.2
- **Purpose:** Assess leakage under static or dynamic wind pressure with water spray.
- **Methods:**
 - **Static water test (E1105)** – chamber method with measured pressure.
 - **Dynamic water test (AAMA 501.1)** – uses jet spray and wind generator (for high-rise or exposed façades).

C. Structural & Safety Tests

1. Structural Performance (Deflection) Test

- **Standard:** ASTM E330
- **Purpose:** Verify that façade components can resist design wind pressure without excessive deflection or failure.
- **Procedure:** Apply positive and negative pressure cycles using air pressure chamber.

2. Seismic Movement / Inters Storey Drift Test

- **Standard:** AAMA 501.4
- **Purpose:** Evaluate system's ability to accommodate building movement without glass breakage or water leakage.

3. Thermal Cycling Test

- **Standard:** AAMA 501.5
- **Purpose:** Check system behavior under repeated temperature changes (expansion, contraction).

4. Impact / Safety Test (if applicable)

- **Standard:** ASTM E1886 / E1996 (for hurricane zones) or BS 6206 (for safety glazing).
- **Purpose:** Confirm safety glazing performance under impact or explosion load.

D. Fire & Acoustic Performance (Project-Specific)

1. Firestop Inspection

- Ensure approved firestop materials are used between floor slabs and façade panels.
- **Standard:** ASTM E2307.

2. Acoustic Test

- **Standard:** ASTM E336 / E90.
- **Purpose:** Verify sound transmission class (STC) and outdoor-indoor transmission class (OITC).

E. Site-Specific Functional Tests

1. **Thermal Imaging Test** – to detect heat loss, moisture intrusion, or air leakage points.
2. **Water Hose Test (simplified field test)** – per AAMA 501.2, quick on-site verification for leakage.
3. **Condensation Test / Dew Point Observation** – ensure no condensation inside double glazing units.
4. **Glass Breakage & Safety Clearance Test** – check safety film or laminated glass containment.

F. Documentation & Compliance

- Approved **mock-up test reports** (prior to installation).



- **As-built drawings** and test certifications.
- **Inspection checklist** signed by consultant or third-party testing agency.
- **Manufacturer’s warranty** and **maintenance manual** submission.

G. Mandatory Mock-Up Requirement

Prior to commencement of bulk façade installation, the Contractor shall design, fabricate, and install a full-scale performance mock-up, minimum one typical bay wide and two storeys high, incorporating all critical façade interfaces.

No mass production or installation shall commence until the mock-up has successfully passed all specified performance tests and received written approval from Engineer-in charge.

Summary of Qualification of Tenderers



The Applicant must meet the following qualification criteria:

1. Minimum fifteen (15) years of experience in façade sales, installation, and operations.
2. Specific experience as a Prime Contractor in façade system installations and operations, with at least one (01) contract of similar nature, complexity, and construction methods/technology successfully completed within the last five (05) years, having a minimum value of Tk. 18 (Eighteen) crore.
3. Experience in completing facade installations and operations for a building with a total built-up area of at least 9,000 square meters.
4. The average annual turnover shall be greater than Tk. 10 (Ten) crore, calculated over the best three (3) years within the last five (5) years.
5. The minimum amount of liquid assets, i.e., working capital or credit line(s), of the Tenderer shall be Tk. 8.00 (Eight) crore.
6. Proven reputation as a constructor in both the public and private sectors, supported by a detailed company profile, client list, and work accomplishment certificates.
7. The applicant must not have any record of contract non-performance in the **last 5 years** from the RFP publication date.
8. All pending litigation must not exceed **15% of the applicant's net worth**.
9. At least **1 contract** of similar nature and complexity in **Façade**, completed within the last **3 years**.
10. Applicants must demonstrate: Relevant **professional and technical qualifications, Managerial capability, A reliable reputation** for contract performance, Adequate and **skilled personnel**
11. The successful Applicant, who later becomes the Tenderer, is required to perform the works and services as described in the subsequent Tender.
12. Applicants must have access to the **necessary equipment and physical facilities** to perform the work, either by: **Owning** the equipment; having **proven access** through a **contractual arrangement** (e.g., lease or hire); Or having **assured access** to such equipment for the required duration. All required equipment must be in **full working condition**
13. Mandatory Criteria (Declaration or evidence)- Dedicated façade design engineer, Ability to execute full-scale performance mock-up, Compliance with specified ASTM / AAMA/ equivalent testing standards, Acceptance of design responsibility and warranty obligations, Acceptance to work under international standards of contract like FIDIC or similar.



Section 1. Instructions to Applicants

1. Interpretation 1.1 Throughout this qualification Document:

- (a) the term “**in writing**” means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail;
- (b) if the context so requires, **singular** means plural and vice versa;
- (c) “**day**” means calendar days unless otherwise specified as working days;
- (d) “**Qualification Document**” means the Document provided by the Employer to an Applicant as a basis for preparation of the Application; and
- (e) “**Application**” depending on the context, means an application submitted by an Applicant for Qualification to participate in the subsequent Tenders and to perform the Contract, in response to an Invitation for Qualification.

2. Corrupt, Fraudulent, Collusive or Coercive Practices

2.1 It is the Employer’s policy to require that Employer’s staff, as well as Applicants/Tenderers, suppliers, and contractors and their subcontractors observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Authority-

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “**corrupt practice**” is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
 - (ii) “**fraudulent practice**” is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) “**collusive practice**” is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
 - (iv) “**coercive practice**” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (v) “**obstructive practice**” is (aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a Bank investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or (bb) acts intended to materially impede the exercise of the Authority’s inspection and audit rights provided.
- (b) will reject a proposal for award if it determines that the Tenderer recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;



(c) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a contract.

3. Eligible Applicants

- 3.1 This Invitation for Qualification is open to all potential Applicants from all countries, except Israel. An Applicant will be eligible if it is a citizen, or is constituted, registered and operates in conformity with the provisions of the laws of that country.
- 3.2 Applicants may be a physical or juridical individual or body of individuals, or company, association or any combination of them in the form of a Joint Venture, Consortium or Association (JVCA) invited to take part in public procurement or seeking to be so invited or submitting an Applicant in response to an Invitation for Qualification.
- 3.3 Applicants shall have the legal capacity to enter into the Contract under the Applicable Law.
- 3.4 Applicants and all parties constituting the Applicant shall not have a Conflict of Interest. Applicants in its own name or its other names or also in the case of its Persons in different names shall not be under a declaration of ineligibility for corrupt, fraudulent, collusive or coercive practices.
- 3.5 Applicants with a poor performance, consistent history of litigation or arbitration awards against it shall not be eligible for Qualification.
- 3.6 Applicants shall not be insolvent, be in receivership, be bankrupt, be in the process of bankruptcy, be not temporarily barred from undertaking business and it shall not be the subject of legal proceedings for any of the foregoing.
- 3.7 Applicants shall have fulfilled its obligations to pay taxes and social security contributions under the provisions of laws and regulations of the country of its origin.
- 3.8 Applicants shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer will reasonably request.
- 3.9 Applicants' requirements for eligibility will extend, as applicable, to each JV partner and Specialist Subcontractor proposed by the Applicant.

4. Eligible Materials, Equipment and Associated Services

- 4.1 All materials, equipment and associated services to be supplied under the Contract are from eligible sources, unless their origin is from Israel.
- 4.2 For the purposes of this Clause, “**origin**” means the place where the Materials and Equipment’s are mined, grown, cultivated, produced or manufactured or processed, or through manufacturing, processing, or assembly, another commercially recognized new product results that differs substantially in its basic characteristics from its components or the place from which the associated services are supplied.

5. Site Visit

- 5.1 Applicants are advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Application, submission of subsequent Tender and entering into a contract.
- 5.2 Applicants and any of its personnel or agents will be granted permission by the Employer to enter into its premises and lands for the purpose of such visit, but only upon the express condition that the Applicant, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- 5.3 The costs of visiting the Site shall be at the Applicants’ own expense.

6 Qualification: General

Qualification Document

6.1 The Sections comprising the Qualification Document are listed below, and should be read in conjunction with any Addendum issued under ITA Clause 11.

- Section 1 Instructions to Applicants (ITA)
- Section 2 Application Data Sheet (ADS)
- Section 3 Application Forms
- Section 4 Scope of Works

6.2 Applicants are expected to examine all instructions, forms, terms, and specifications in the Qualification Document as well as in Addendum to Qualification, if any.

7. Clarification of Qualification Document

- 7.1 Applicants requiring any clarification of the qualifications Document shall contact the Employer in writing at the Employer’s address indicated in the RFP before **two-third** of the time allowed for preparation and submission of Application elapses.
- 7.2 Non-performance of a contract shall not occur within the last years, prior to the deadline for Application submission based on all information on fully settled disputes or litigation.

8 Litigation History

- 8.1 For the purpose, a fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract and where all appeal instances have been exhausted.
- 8.2 For a Joint Venture under ITA Sub Clause 18.1, the precise minimum requirements of Leading Partner and other partners shall be as specified in the ADS.

9 Litigation History

- 9.1 For the purpose, a fully settled dispute or litigation is one that has been resolved in accordance with the Dispute Resolution Mechanism under the respective contract and where all appeal instances have been exhausted.
- 9.2 For a Joint Venture under ITA Sub Clause 18.1, the precise minimum requirements of Leading Partner and other partners shall be as specified in the ADS.

10 Joint Venture, Consortium or Association (JVCA)

- 10.1 Applicants may participate in the qualification process and subsequent procurement proceedings by forming a Joint Venture, Consortium or Associations (JVCA) or alternately with the intent to enter into such an agreement supported by a Letter of Intent.
- 10.2 The JV agreement, indicating at least the parts of the Works to be executed by the respective partners, shall be legally entered into case-by-case in the Applicant's Leading Partner's country of origin, as specified in the ADS, duly signed by all legally authorized representatives of the Persons who are parties to such agreement.
- 10.3 Applicants, as an alternate to ITA Sub Clause 9.2, may intend to enter into a JV agreement case-by-case in the form of a Letter of Intent along with the proposed agreement, indicating at least the parts of the Works to be executed by the respective partners, duly signed by all partners of the intended JV and authenticated by an authority of the Applicant's Leading Partner's country of origin, as stated in the ADS, with the declaration that the partners will execute the Joint Venture agreement in the event the Applicant, in the first place pre-qualified and then successful in the subsequent Tender.
- 10.4 Applicants shall submit the Letter of Intent and the proposed JV agreement along with the Application.
- 10.5 For a Joint Venture under ITA Sub Clause 9.1, the precise minimum qualification requirements of Leading Partner and other partners shall be as specified in the ADS.
- 10.6 In cases where a JV partner's, personnel capacity, equipment capacity and financial capacity individually fulfils the precise minimum qualifying requirement of that particular component as specified, capacities of such partner(s) in the JV will be combined together for summation to determine the total precise minimum qualifying requirements criterion of that JV as stated under ITA Sub Clause 9.5.
- 10.7 Each partner of the JV shall be jointly and severally liable for the execution of the Contract, all liabilities and ethical and legal obligations in accordance with the Contract terms.
- 10.8 The JV shall nominate a Representative (partner-in-charge) who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution including the receipt of payments for and on behalf of the JV.
- 10.9 The composition or the constitution of a JV once formed shall not be allowed to be altered prior to signing of the Contract.



- 10.10 Alteration of partners to the composition or constitution at a date later than the signing of the Contract during execution shall be allowed by the Employer only when any of such partners is found to be incompetent or has serious difficulties which may impact the overall implementation of the proposed Works, where the incoming partner shall require to have qualifications higher than that of the outgoing partner.
- 10.11 Each partner of the JV shall complete the JV Partner Information (Form F3) for submission with the Application.

11 Contents of Application

- 11.1 The Application prepared by the Applicants shall comprise the following:
- 11.1.1 Application Submission Letter (Form F-1);
 - 11.1.2 Applicant Information (Form F-2);
 - 11.1.3 documents demonstrating that they are enrolled in the relevant professional or trade organizations registered in their country of origin;
 - 11.1.4 written confirmation authorizing the signatory of the Application to commit the Applicant;
 - 11.1.5 documents confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the Applicant or employees of that Applicant subsequently entering into or signing a Contract with the Employer;
 - 11.1.6 documents confirming that the Applicant is not insolvent, in receivership, bankrupt or in the process of bankruptcy, temporarily barred from undertaking business and shall not be the subject of legal proceedings for any of the foregoing;
 - 11.1.7 documents confirming that all claims, arbitration or other litigation cases have been satisfactorily resolved, and if not, they shall have no serious negative impact on the financial capacity of the Applicant;
 - 11.1.8 documents confirming that the Applicant has fulfilled its obligations to pay taxes and social security contributions under the provisions of laws and regulations of its country of origin as a proof of fulfilment of taxation obligations;
 - 11.1.9 documents establishing the Applicant's eligibility to perform the contract;
 - 11.1.10 documents establishing the origin of all Materials, Equipment and services to be supplied under the Contract, as stated under ITA Clause 26;
 - 11.1.11 documents establishing the minimum qualifications of the Applicant required to be met for due performance of the Works and physical services under the contract;
 - 11.1.12 any other document as specified in the ADS.
- 11.2 In addition to the requirements stated under ITA Sub Clause 9.1, Applications submitted by a JV or proposing a Specialized Subcontractor shall include:
- 11.2.1 Joint Venture Agreement legally entered into in the Applicant's Leading Partner's country of origin, by all partners, as stated under ITA Sub Clause 18.2;
- Or,

- 11.2.2 Letter of Intent along with the proposed agreement duly signed by all partners of the intended JV and authenticated by an authority of the Applicant's Leading Partner's country of origin with the declaration that it will execute the Joint Venture Agreement in the event the Applicant and the Tenderer is successful in the subsequent Tender, as stated under ITA Sub Clause 18.3;
- 11.2.3 the JV Partner Information (**Form F-3**), as stated under ITA Sub Clause 18.11;
- 11.2.4 the Specialist Subcontractor Information (**Form F-4**), as stated under ITA Sub Clause 19.6.

12 Documents Establishing the Applicant's Qualification

12.1 Applicants shall complete and submit the Applicant Information (**Form F-2**) and shall include documentary evidence, as applicable to satisfy the following:

- 12.1.1 details on the financial standing of the Tenderer, such as profit and loss statements and corresponding auditor's report establishing the liabilities and assets;
- 12.1.2 details of general experience in Fire management works on case-by-case procurement proceedings performed for each of the last years along with the sums, dates and recipients;
- 12.1.3 details of specific experience in construction works of similar nature and size on case-by-case procurement proceedings performed for each of the last years along with the sums, dates and recipients;
- 12.1.4 details of average annual turnover for a period;
- 12.1.5 details of existing commitments and works to assess the minimum Tender Capacity;
- 12.1.6 details of adequacy of working capital for the subsequent Tender i.e., access to line(s) of credit and availability of other financial resources;
- 12.1.7 details of numbers of technical and administrative personnel along with their qualification and experience proposed for the subsequent Tender;
- 12.1.8 details of Applicant's technical facilities, available major construction equipment's, measures for ensuring quality such as, ISO certification and design, research and development facilities proposed to carry out the Contract;
- 12.1.9 details of Procuring Entities who may be contacted, if necessary, by the Employer; and authority to seek references from the Applicant's bankers or any other sources.

12.2 Applicants, if applying as an existing or intended JV, shall submit documentary evidence to establish its qualifications as stated under ITT and, in particular, it shall submit an affidavit nominating one of the JV partners as the REPRESENTATIVE (partner-in-charge) who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the tendering process and, in the event the JV is awarded the Contract, during contract execution including the receipt of payments for and on behalf of the JV.

13 Bank Guarantees

13.1 Performance Bank Guarantee Clause

- 13.1.1 The successful bidder, upon receiving the Notification of Award (NoA), shall furnish an unconditional and irrevocable **Performance Bank Guarantee** in favor of *Asian University for Women (AUW)*.



- 13.1.2 The amount of the Performance Bank Guarantee shall be **ten percent (10%) of the total Contract Price**, issued from any scheduled bank operating in Bangladesh and acceptable to AUW.
- 13.1.3 The Performance Bank Guarantee shall remain **valid until twenty-eight (28) days after the completion of the Defects Liability Period** or final acceptance of the works, whichever is later.
- 13.1.4 Failure to submit the Performance Bank Guarantee within the stipulated time may result in the cancellation of the award and forfeiture of any right to the contract.
- 13.1.5 The Performance Bank Guarantee shall be returned to the Contractor upon satisfactory completion of all contractual obligations and submission of all completion documents as per AUW's satisfaction.
- 13.1.6 AUW reserves the right to **invoke the Performance Bank Guarantee**, in whole or in part, in the event of the Contractor's default, non-performance, or breach of any contractual terms.

13.2 Advance Payment Bank Guarantee (if applicable)

- 13.2.1 If the Employer provides any **advance payment** to the Contractor, the Contractor shall furnish an **unconditional and irrevocable bank guarantee** for the full amount of the advance, valid until the advance is fully recovered.
- 13.2.2 The Employer may encash the bank guarantee in the event the Contractor **fails to utilize the advance for the purpose of contract execution**.

13.3 Invocation of Bank Guarantee

- 13.3.1 The Bank Guarantee shall be **payable on demand and irrevocable**, and the Employer's written statement regarding Contractor's default shall be **conclusive** for the purpose of encashment.
- 13.3.2 The Bank Guarantee shall remain valid regardless of any disputes under the Contract, until it is **released in writing by the Employer**.

14 Liquidated Damages

- 14.1 If the Contractor fails to complete the Works or any part thereof within the time specified in the Contract, the Contractor shall be liable to pay **liquidated damages** at the rate of **1% (one percent) of the Contract Price per week** of delay, unless otherwise specified in the Contract.
- 14.2 The total amount of liquidated damages shall not exceed **10% (ten percent) of the Contract Price**.
- 14.3 Liquidated damages shall be **deducted from any payments due to the Contractor**, including the Performance Security, without prejudice to any other rights of the Employer under this Contract.

14 Termination

14.1 Termination for Default

14.1.1 If the Contractor:

- a. Fails to commence, continue, or complete the Works in accordance with the Contract; or
- b. Fails to remedy any breach, delay, or defect within the period specified in a written notice from the Employer; the Employer may, at its sole discretion, **terminate the Contract for default**, in whole or in part.

14.1.2 Upon termination for default, the Employer shall have the right to:

- a. **Cancel the Contract** immediately;



- b. **Engage another Contractor** to complete the Works at the risk and cost of the defaulting Contractor;
- c. **Recover from the Contractor all additional costs, losses, and damages** incurred as a result of the Contractor's failure, including legal and administrative expenses;
- d. **Forfeit any Performance Security or other guarantees** provided by the Contractor;
- e. **Restrict or debar the Contractor** from future contracts with the Employer for a period as deemed appropriate.

14.1.3 Termination under this Clause shall be **without prejudice to any other remedies** available to the Employer under the Contract or applicable law, including claims for additional damages or specific performance.

14.2 Termination for Convenience

14.2.1 The Employer may, at any time, **terminate the Contract, in whole or in part, for convenience**, without assigning any reason.

14.2.2 In such cases, the Contractor shall be entitled to payment for:

- a. Work executed up to the date of termination; and
- b. Reasonable costs incurred for materials or commitments directly related to the terminated portion, but **shall not be entitled to any loss of profit or unperformed work**.

14.3 Termination for Insolvency or Bankruptcy

14.3.1 If the Contractor becomes **insolvent, bankrupt, or enters into receivership or liquidation**, the Employer may **terminate the Contract immediately**.

14.3.2 The Employer shall have the right to **recover costs incurred to complete the Works** from any outstanding payments or Performance Security.

14.4 Termination for Force Majeure

14.4.1 If a **Force Majeure event** persists for a period exceeding [insert period, e.g., 90 days], the Employer or Contractor may terminate the Contract by giving written notice.

14.4.2 Upon termination due to Force Majeure:

- a. Neither party shall be liable for damages resulting directly from the termination;
- b. The Contractor shall be paid for all work executed up to the date of termination.

14.5 Acceleration and Material Breach

14.5.1 In case of delays or partial non-performance, the Employer may issue a **directive for accelerated performance**.

14.5.2 Failure to comply with the acceleration directive shall constitute a **material breach**, justifying immediate termination under Clause 14.1

14.6 Effect of Termination

14.6.1 Termination of the Contract under any of the above clauses shall be **without prejudice to any other rights or remedies** of the Employer under the Contract or applicable law.



14.6.2 All obligations of the Contractor regarding **confidentiality, indemnity, and warranty** shall survive termination.

14.7 Acceleration of Completion

14.7.1 In the event of any delay or failure to accomplish the task, the Employer may issue a **written directive for accelerated performance**, specifying the revised timeline and milestones.

14.7.2 Failure to comply with the acceleration directive shall be treated as a **material breach**, justifying immediate termination and enforcement of ITA 14.2.

15. Descope and Backcharge

15.1 Descope of Work

15.1.1 The Employer reserves the right to **descope, reduce, or modify the scope of work** under the Contract, in whole or in part, by giving written notice to the Contractor.

15.1.2 Upon receiving a descope notice, the Contractor shall:

- a. Immediately **stop work on the descope items**;
- b. Submit a **revised work plan, cost estimate, and schedule** within 7 working days; and
- c. **Deliver any completed work, materials, or documentation** related to the descope items.

15.1.3 The Employer shall **adjust the Contract Price** proportionally to reflect the descope work. Such adjustment shall include:

- a. Reduction of contract payment corresponding to the value of descope items; and
- b. Recovery of any **unapproved costs incurred by the Contractor** on the descope items.

15.2 Backcharge

15.2.1 The Employer may **backcharge the Contractor** for costs or damages incurred due to:

- a. Non-performance, defective work, or delay caused by the Contractor;
- b. Failure to comply with specifications, drawings, or contractual obligations; or
- c. Additional work or remedial work carried out by the Employer or third parties to complete the Contractor's scope.

15.2.2 Backcharge amounts shall be:

- a. **Deducted from any payment due** to the Contractor, including Performance Bank Guarantee; or
- b. **Payable by the Contractor directly** within 15 days of written notice.

15.2.3 The Contractor shall **not be entitled to any extension of time, additional payment, or claim** for costs related to the backcharged items.

15.3 Procedure for Issuing Descope or Backcharge Notices

15.3.1 The Employer shall issue **written notice specifying**:

- a. The descope work or backcharged items;
- b. The reason for descope or backcharge;
- c. The monetary amount, if applicable; and
- d. The time for compliance or payment.

15.3.2 The Contractor shall **acknowledge receipt of the notice** and comply with all instructions without delay.

15.4 Survival of Rights

All rights of the Employer to descope, backcharge, recover costs, or enforce compliance under this Clause shall survive the termination or completion of the Contract.

16 Engineer's Instructions

The Engineer may issue to the Contractor (at any time) instructions which may be necessary for the execution of the works, all in accordance with the Contract. The Contractor shall only take instructions from the Engineer or from the Engineer's Representative (if appointed) or an assistant to whom the appropriate authority to give instruction has been delegated under Sub-clause 3.4 (Delegation by the Engineer).

Subject to the following provisions of this Sub-clause, the Contractor shall comply with the instructions given by the Engineer or the Engineer's Representative (if appointed) or delegated assistant, on any matter related to the Contract.

If an instruction states that it constitutes a Variation, Sub-Clause 13.3.1 (Variation by instruction) shall apply.

If not so stated and the Contractor considers that the instruction:

- (a) Constitutes a Variation (or involves work that is already part of an existing Variation); or
- (b) does not comply with applicable laws or will reduce the safety of the works or is technically impossible.

the Contractor shall immediately, and before commencing any work related to the instruction, give a Notice to the Engineer with reasons. If the Engineer does not respond within 7 days after receiving this Notice, by giving a Notice confirming, reversing or varying the instruction, The Engineer shall be deemed to have revoked the instruction. Otherwise the Contractor shall comply with and be bound by the terms of the Engineer's response.

17 Defects and Rejection

If, as a result of an examination, inspection, measurement or testing, any plant, Materials, Contractor's design (if any) or workmanship is found to be defective or otherwise not in accordance with the Contract, the Engineer shall give a Notice to the Contractor describing the item of Plant, Materials, design or workmanship that has been found to be defective. The Contractor shall then promptly prepare and submit a proposal for necessary remedial work.

The Engineer may Review this proposal, and may give a notice to the Contractor stating the extent to which the proposed work, if carried out, would not result in the Plant, Materials, Contractor's design (if any) or workmanship complying with the Contract. After receiving such a Notice, the Contractor shall promptly submit a revised proposal to the Engineer. If the Engineer gives no such notice within 14 days after receiving the Contractor's proposal (or revised proposal), The Engineer shall be deemed to have given a notice of No-objection.

If the Contractor fails to promptly submit a proposal (or revised proposal) for remedial work, or fails to carry out the proposed remedial work to which the engineer has given (or is deemed to have given) a notice or No-objection, the Engineer may:

- (a) instruct the Contractor under sub-paragraph (a) and/or (b) of Sub-clause 7.6 (Remedial work); or
- (b) reject the plant, materials, Contractor's design (if any) or workmanship by giving a Notice to the Contractor, with reasons, in which case sub-paragraph (a) of Sub-Clause 11.4 (Failure to remedy defects) shall apply.

After remedying defects in any plant, materials, design (if any) or workmanship, if the Engineer requires any such items to be retested, the tests shall be repeated in accordance with Sub-Clause 7.4 (Testing by the Contractor) at the Contractor's risk and cost. If the rejection and retesting



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cause the Employer to incur additional costs, The Employer shall be entitled Subject to Sub-Clause 20.2 (Claims for payment and/or EOT) to payment of these costs by the Contractor.

18 Employer's Entitlement to Remedy Default

If the Contractor fails to execute any part of the Works, to remedy a defect, or to complete outstanding work within a reasonable time following notice from the Employer, the Employer shall be entitled to carry out all necessary work at the Contractor's cost by employing other persons. All necessary costs so incurred shall constitute a debt due from the Contractor to the Employer, recoverable by deduction from payments due or otherwise; provided always that the Contractor's liability and obligations under the Contract shall not be affected or diminished by the exercise of this right by the Employer.

19 DISPUTES

In no event shall AUW be liable to the Contractor for payments for any extra work the Contractor performs in addition to that required under the Statement of Work above unless the Contractor performs such work by written directive of AUW and unless the contract is amended accordingly. No officer, director, employee, or agent of AUW is authorized to direct any extra work by oral order. In the event of any claims or disputes arising from or relating to this Purchase Order, the parties shall use their best efforts to settle the claims or disputes. To this effect, they shall consult and negotiate with each other in good faith and, recognizing their mutual interests, attempt to reach a just and equitable solution satisfactory to both parties. If they fail to reach such a solution within THIRTY (30) days, either Party may refer the matter to arbitration, as per the law of Bangladesh, which shall be the exclusive method of resolving such disputes. The arbitration shall be conducted in Chattogram, Bangladesh. The results of arbitration shall be final and binding on the Parties and shall be in lieu of any other remedy.



Section 2. Application Data Sheet

ITA Clause	Amendments of, and Supplements to, Clauses in the Instructions to Applicants
	RFP IDENTIFICATION NO: _____
A. General	
ITA 1.1	The Employer is <i>Asian University for Women represented by Deputy Project Director, Asian University for women, 20/A, M.M Ali Road, Chattogram-4000, Bangladesh.</i>
	<p>The Name of the Subsequent Tender is: <i>Facade works for three storied with a semi- basement Academic Building for Asian University for women.</i></p> <p>Application Ref:.....</p> <p>Package No:.....</p> <p><i>[if there is more than one(1) lot, individual lots are to be identified]</i></p>
ITA3.1	The source of public funds is: <i>AUW own fund.</i>
ITA3.3	The name of the Development Partner is: <i>None</i>
ITA6.1	Materials, Equipment's and associated services from the following countries are not eligible: <i>Israel</i>



B. Qualification Criteria

ITA13.1	Non-performance of a contract shall not occur within the last <i>5 (five)</i> years. [years counting backward from the date of publication of RFP]
ITA13.2	All pending litigation shall in total not represent more than <i>15 (fifteen)</i> percent of the Applicant's net worth.
ITA 14.1 (a)	The minimum number of years of general experience of the Applicant in public or private Façade as Prime Contractor shall be <i>15 (Fifteen)</i> years. [years counting backward from the date of publication of RFP]
ITA14.1 (b)	The minimum specific experience as a Façade works of at least <i>1 (one)</i> contract(s) of similar nature, complexity and methods/technology completed over a period of <i>5 (five)</i> years shall be required. [years counting backward from the date of publication of RFP.]
ITA 14.1(c)	A satisfactory completion of similar works of at least BDT <i>18 (Eighteen) crore</i> under a single contract over a period of <i>3 (three)</i> years shall be required. [years counting backward from the date of publication of RFP.]



ITA 15.1	The required average annual <i>Curtain Wall Works</i> turnover shall be greater than <i>BDT 10 (Ten)</i> crore over the last 5 (<i>five</i>)years. <i>[years counting backward from the date of publication of RFP.]</i>																								
ITA 15.1(c)	The minimum amount of liquid assets or working capital or credit facilities of the Applicant shall be greater than <i>BDT 1.50 (one point five zero) crore</i> on a day after publication of RFP.																								
ITA 16.1(a)	A Project Manager shall have the following qualifications and experience: <table border="1" data-bbox="352 465 1439 589"> <thead> <tr> <th>No</th> <th>Position</th> <th>Total Works Experience (years)</th> <th>In Similar Works Experience(years)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Project Manager</td> <td>15 yrs</td> <td>12 yrs</td> </tr> </tbody> </table>	No	Position	Total Works Experience (years)	In Similar Works Experience(years)	1.	Project Manager	15 yrs	12 yrs																
No	Position	Total Works Experience (years)	In Similar Works Experience(years)																						
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ITA 16.1(b)	The minimum number of Engineers with qualifications and experience shall be as follows: <table border="1" data-bbox="352 660 1439 958"> <thead> <tr> <th>No.</th> <th>Position</th> <th>Total Works Experience (years)</th> <th>In Similar Works Experience (years)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Project Engineer, B.Sc. Engr. (Civil)</td> <td>Min. 7 yrs</td> <td>Min. 5 yrs</td> </tr> <tr> <td>2.</td> <td>Façade Engineer</td> <td>Min. 10 yrs</td> <td>Min. 7 yrs</td> </tr> <tr> <td>3.</td> <td>Project Engineer, B.Sc. Engr. (Electrical & Mechanical)</td> <td></td> <td></td> </tr> <tr> <td>3.</td> <td>Safety Engineer</td> <td>Min. 10 yrs</td> <td>Min. 7 yrs</td> </tr> </tbody> </table>	No.	Position	Total Works Experience (years)	In Similar Works Experience (years)	1.	Project Engineer, B.Sc. Engr. (Civil)	Min. 7 yrs	Min. 5 yrs	2.	Façade Engineer	Min. 10 yrs	Min. 7 yrs	3.	Project Engineer, B.Sc. Engr. (Electrical & Mechanical)			3.	Safety Engineer	Min. 10 yrs	Min. 7 yrs				
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3.	Safety Engineer	Min. 10 yrs	Min. 7 yrs																						
ITA 16.1(c)	Other key staff with qualifications and experience shall be as follows <i>[state requirements]:</i> <table border="1" data-bbox="352 1070 1439 1227"> <thead> <tr> <th>No.</th> <th>Position</th> <th>Total Works Experience (years)</th> <th>In Similar Works Experience (years)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Material Engineer, Dip-in Engr. (Civil)</td> <td>Min. 5 yrs.</td> <td>Min. 03 yrs</td> </tr> </tbody> </table>	No.	Position	Total Works Experience (years)	In Similar Works Experience (years)	1.	Material Engineer, Dip-in Engr. (Civil)	Min. 5 yrs.	Min. 03 yrs																
No.	Position	Total Works Experience (years)	In Similar Works Experience (years)																						
1.	Material Engineer, Dip-in Engr. (Civil)	Min. 5 yrs.	Min. 03 yrs																						
ITA 17.1	The Applicant shall own or have proven access to hire or lease of the major equipments to accomplish the tasks, Mention the equipment lists to accomplish the tasks as below: <table border="1" data-bbox="352 1417 1439 1865"> <thead> <tr> <th>No</th> <th>Equipment Type and Characteristics</th> <th>Minimum Number Required</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Essential tools & equipment</td> <td></td> </tr> <tr> <td>2.</td> <td>Essential tools & equipment for small scale metal works</td> <td></td> </tr> <tr> <td>3.</td> <td></td> <td></td> </tr> <tr> <td>4.</td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> </tr> <tr> <td>6.</td> <td></td> <td></td> </tr> <tr> <td>7.</td> <td></td> <td></td> </tr> </tbody> </table>	No	Equipment Type and Characteristics	Minimum Number Required	1.	Essential tools & equipment		2.	Essential tools & equipment for small scale metal works		3.			4.			5.			6.			7.		
No	Equipment Type and Characteristics	Minimum Number Required																							
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3.																									
4.																									
5.																									
6.																									
7.																									
ITA 18.2	In the case the Applicant's Leading Partner's country of origin is Bangladesh, the value of non-judicial stamp for execution of the Joint Venture agreement shall be <i>BDT BDT 300 (three hundred) only</i>																								
ITA 18.3	In the case the Applicant's Leading Partner's country of origin is Bangladesh, the Letter of Intent along with the proposed agreement shall be authenticated by a Notary Public.																								



ITA 18.5	The minimum qualification requirements of Leading Partner and other Partner(s) of a JV shall be as follows:			
	ADS Clauses References	Requirements by summation	Requirements for Leading Partner	Requirements for another Partner(s)
	ITA-14.1(a)	Summation not applicable	Same as stated in ADS	Same as for Leading Partner
	ITA-14.1(b)	100%	At least one characteristic	Not applicable
	ITA-14.1(c)	100%	At least one characteristic	Not applicable
	ITA-15.1(a)	100%	40%	25%
	ITA-15.1(b)	100%	40%	25%
	ITA-15.1(c)	100%	40%	25%
	ITA-16.1(a)	Summation not applicable	To be appointed by lead partner	Not applicable
	ITA-16.1(b)	100%	At least one characteristic	Not applicable
	ITA-16.1(c)	100%	At least one characteristic	Not applicable
ITA-17.1	100%	At least one characteristic	Not applicable	
ITA 19.4	The Employer intends to execute the following specific components of the proposed Works by the Nominated Subcontractor(s): <i>None</i>			
ITA 20.1	Domestic Preference <i>shall not</i> be applicable for eligible National Tenderers			
D. Application Preparation				
ITA 23.4	Use of Qualification Document posted in the website <i>is not</i> permitted for preparation of Applications.			
ITA 25.1	The Applicant shall provide with its Application the following additional documents: <i>None</i>			



E. Application Submission

ITA31.1	<p>For <u>Application submission purposes</u> only, the Employer's address is: For <u>Tender submission purposes</u> only, the Procuring Entity's address is: TO AUW PROCURMENT COMMITTEE Email address: tender154@auw.edu.bd</p> <p>The deadline for the submission of Applications is: Time & Date: 12:01pm. (GMT+6) 98/3/2026</p>
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Section 3. Application Forms

Form Title

Application Forms

- F – 1 Application Submission Letter
- F – 2 Applicant Information
- F – 3 JV Partner Information (*if applicable*)
- F – 4 Subcontractor Information (*if applicable*)
- F – 5 Historical Contract Non-Performance
- F – 6 Personnel Information

Application Submission Letter (Form F-1)

[This letter should be completed and signed by the Authorized Signatory preferably on the Letter-Head Pad of the Applicant]

To:

Date: [dd/mm/yy]

[Contact Person]

[Name of Employer]

[Address of Employer]

Invitation for Qualification No:

[indicate RFP No]

Tender Package No:

[indicate Package No]

This Package is divided into the following Number of Lots **[indicate number of Lot(s)]**

We, the undersigned, apply to be qualified for the referenced Works and Physical Services and declare that:

- (a) We have examined and have no reservations to the Qualification Document, issued by you on *[insert date]*; including *[state numbers]*.
- (b) We, including as applicable, any JVCA partner or Specialist Subcontractor for any part of the contract resulting from this Qualification process, have nationalities from eligible countries according to the ITA.
[insert the nationality of the Applicant, including that of all partners in case of a Joint Venture, and the nationality of each already identified subcontractor, if applicable];
- (c) we are submitting this Application as a sole Applicant;
or
we are submitting this Application as the partners of a JVCA, comprising the following other partners;

Sl. No	Name of Partner	Address of Partner
1		
2		
3		

or

- (e) we, including as applicable any JVCA partner, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents in accordance with ITA;
- (f) we intend to subcontract an activity or part of the Works, to the following Specialist Subcontractor(s);

Activity or part of the Works	Name of Specialist Subcontractor with Address



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- (g) we, including as applicable any JVCA partner, confirm that we do not have a record of poor performance, such as abandoning the works, not properly completing contracts, inordinate delays, or financial failure as stated in ITA, and that we do not have, or have had, any litigation against us, other than that stated in the Applicant Information (**Form -2**);
- (h) we, including as applicable any JVCA partner, confirm that we do not have a record of insolvency, receivership, bankrupt or being wound up, our business activities were not been suspended, and it was not been the subject of legal proceedings in accordance with ITA;
- (i) we, including as applicable any JVCA partner, confirm that we have fulfilled our obligations to pay taxes and social security contributions applicable under the relevant national laws and regulations of our country(s) of origin in accordance with;
- (j) we, including as applicable any JVCA partner or Specialist Subcontractor for any part of the contract resulting from this Qualification process, have not been declared ineligible by any International Development Agency or the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices in accordance with ITA; or by an act of compliance with a decision of the United Nations Security Council.
- (k) furthermore, we are aware of ITA concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;
- (l) we are not participating as Applicants in more than one Application in this pre-qualification process;
- (m) we understand that you may cancel the prequalification process at any time and that you are neither bound to accept any Application that you may receive nor to invite the pre-qualified Applicants to tender for the contract subject of this prequalification, without incurring any liability to the Applicants.

Signature:	<i>[insert signature of authorized signatory of the Applicant]</i>
Name:	<i>[insert full name of signatory with National ID Number]</i>
In the capacity of:	<i>[insert capacity of signatory]</i>

Duly authorized to sign the Application for and on behalf of the Applicant

[If there is more than one (1) signatory, or in the case of a JVCA, add other boxes and sign accordingly]

Attachment 1:

Written confirmation authorizing the above signatory to commit the Applicant and the subsequent Tenderer
[and, if applicable]

Attachment 2:

JV Agreement / Letter of Intent to form JV with draft proposed Agreement



[This Form should be completed only by the Applicant, preferably on its Letter-Head Pad]

Invitation for Qualification No:

[indicate IFP No]

Tender Package No:

[indicate Package No]

This Package is divided into the following Number of Lots:

[indicate number of Lot(s)]

1. Eligibility Information of the Applicant [According to ITT]	
1.1	Nationality of individual or country of registration
1.2	Applicant's legal title
1.3	Applicant's registered address
1.4	Applicant's legal status [complete the relevant box]
	Proprietorship
	Partnership
	Limited Liability Concern
	Government-owned Enterprise
	Others [please describe, if applicable]
1.5	Applicant's year of registration
1.6	Applicant's authorised representative details
	Name
	National ID number, if any
	Address
	Telephone / Fax numbers
	e-mail address
1.7	Litigation ITT
	Information on non-performance of contract and pending litigation furnished in Form F-5
1.8	Applicant to attach photocopies of the original documents mentioned aside
	[All documents required under ITT Clauses]
The following two information are applicable for national Applicants	



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1.9	Applicant's Value Added Tax Registration (VAT) Number				
1.10	Applicant's Tax Identification Number(TIN)				
[The foreign Applicants, in accordance with ITT Clause 5, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]					
2. Qualification Information of the Applicant [According to ITT Clause]					
2.1 General Experience in CURTAIN WALL Works of Applicant					
	Start Month Year	End Month Year	Years	Contract No and Name of Contract Name and Address of Employer Brief description of Works	Role of Applicant [Prime/Sub/Management]
2.2 Specific Experience in CURTAIN WALL Works of Applicant Completed Contracts of similar nature, complexity and methods/ technology					
	Contract No		[insert reference no] of [insert year]		
	Name of Contract		[insert name]		
	Role in Contract [tick relevant box].		Prime Contractor	Subcontractor	Management Contractor
	Award date		[insert date]		
	Completion date		[insert date]		
	Total Contract Value		[insert amount]		
	Employer's Name Address Tel / Fax <u>e-mail</u>				
	Brief description with justifications of the similarity compared to this Employer's requirements		[state justification in support of its similarity compared to the proposed works]		
2.3 Average annual turnover <i>[total certified payments received for contracts in progress or completed for each year of works in progress or completed; using selling exchange rate quoted by the source being Bangladesh Bank on the date reported, if applicable]</i>					
	Year	Amount & Currency			



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2.4	Existing commitments and works [targeted to be completed by the Intended Completion Date of the proposed works]		
	Name of Contract Contract No [reference] of [year] Name of Employer Contact Address Tel/fax e-mail	Target Completion Date	Value of Existing Commitments and Works
			Amount & Currency
2.5	Financial Resources available to meet the CURTAIN WALL System cash flow		
	No	Source of Financing	Amount Available
			Amount & Currency
In order to confirm the above statements the Applicant shall submit, as applicable, the documents			
2.6	Contact Details [According to ITT]		
	Name, address, and other contact details of Applicant's Bankers and other Employer(s) that may provide references, if contacted by this Employer		
2.7	Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management [According to ITT]		
	Position Name Years of General Experience	Years of Specific Experience	
[Tenderer to complete details of as many personnel as are applicable .Each personnel listed above should complete the Personnel Information (Form-6)			
2.8	Major Construction Equipment's proposed to carry out the Contract [According to ITT]		
	Item of Equipment	Condition (new, good, average, poor)	Owned, leased or to be purchased (state owner, lessor or seller)
[Applicant to list details of each item of major construction equipment, as applicable]			



[This Form should be completed by each JVCA partner].

Invitation for Qualification No:

[indicate IFP No]

Tender Package No

[indicate Package No]

This Package is divided into the following Number of Lots

1. Eligibility Information of the JVCA Partner [According to ITT]		
1.1	Nationality of Individual or country of Registration	
1.2	JVCA Partner's legal title	
1.3	JVCA Partner's registered address	
1.4	JVCA Partner's legal status [complete the relevant box]	
	Proprietorship	
	Partnership	
	Limited Liability Concern	
	Government-owned Enterprise	
	Other (please describe, if applicable)	
1.5	JVCA Partner's year of registration	
1.6	JVCA Partner's authorised representative details	
	Name	
	National ID number, if any	
	Address	
	Telephone / Fax numbers	
	e-mail address	
1.7	Litigation	
	Information on non-performance of contract and pending litigation furnished in Form-5	
1.8	JVCA Partner to attach copies of the original documents mentioned aside	[All documents required under ITT Clauses]
The following two information are applicable for national JVCA Partners only		
1.9	JVCA Partner's Value Added Tax Registration (VAT) Number	



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1.10	JVCA Partner's Tax Identification Number (TIN)				
[The foreign JVCA Partners, in accordance with ITT, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]					
2. Key Activity(ies) for which it is intended to be joint ventured [According to ITT]					
	Elements of Activity	Brief description of Activity			
3. Qualification Information of the JVCA Partner [ITT]					
3.1	General Experience in Construction Works of JVCA Partner				
	Start Month Year	End Month Year	Years	Contract No and & Name of Contract Name and Address of Procuring Entity Brief description of Works	Role of JVCA Partner [Prime/Sub/ Management]
3.2	Specific Experience in Construction Works of JVCA Partner Completed Contracts of similar nature, complexity and methods/construction technology				
	Contract No	[insert reference no] of [insert year]			
	Name of Contract	[insert name]			
	Role in Contract [tick relevant box]	Prime Contractor	Subcontractor	Management Contractor	
	Award date	[insert date]			
	Completion date	[insert date]			
	Total Contract Amount	[insert amount]			
	If partner in a JV, specify participation of the total Contract Amount	_____ %	Amount & Currency [insert amount] USD/GBP/EUR/JPY Equivalent [insert amount] delete not appropriate		
	Employer's Name Address Tel / Fax e-mail Brief description with justifications of the similarity compared to this Employer's requirements	[state justification in support of its similarity compared to the proposed works]			
3.3	Average annual construction turnover <i>[total certified payments received for contracts in progress or completed for each year of works in progress or completed; using selling exchange rate quoted by the source being Bangladesh Bank on the date reported, if applicable]</i>				
	Year	Amount & Currency			



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3.4	Existing commitments and works [targeted to be completed by the Intended Completion Date of the proposed works;]		
	Name of Contract Contract no [reference] of [year] Name of Employer Contact Address Tel/fax e-mail	Target Completion Date	Value of Existing Commitments and Works
			Amount & Currency
3.5	Financial Resources available to meet the construction cash flow		
	No	Source of financing	Amount Available
			Amount & Currency
	In order to confirm the above statements the JVCA Partner shall submit, as applicable, the documents mentioned in ITT Clause 28.		
3.6	Contact Details		
	Name, address, and contact details of Tenderer's Bankers and other Employer(s) that may provide references if contacted by this Employer		
3.7	Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management		
	Position Name Years of General Experience	Years of Specific Experience	
	<i>[Tenderer to complete details of as many personnel as are applicable. Each personnel listed above should complete the Personnel Information (Form -6)]</i>		
3.8	Major items of Construction Equipment proposed for carrying out the works [ITT Clause 28]		
	Item of Equipment	Condition (new, good, average, poor)	Owned, leased or to be purchased (state owner, leaser or seller)
	<i>[Tenderer to list details of each item of Major equipment, as applicable]</i>		

Signature (Name of Authorized Signatory of the
JVCA Partner)



[This Form should be completed by each Subcontractor, preferably on its Letter-Head Pad]

Invitation for Qualification No:

[indicate IFP No]

Tender Package No

[indicate Package No]

This Package is divided into the following Number of Lots

1. Eligibility Information of the Subcontractor [ITT]		
1.1	Nationality of Individual or country of Registration	
1.2	Subcontractor's legal title	
1.3	Subcontractor's registered address	
1.4	Subcontractor's legal status <i>[complete the relevant box]</i>	
	Proprietorship	
	Partnership	
	Limited Liability Concern	
	Government-owned Enterprise	
	Other (please describe)	
1.5	Subcontractor's year of registration	
1.6	Subcontractor's authorized representative details	
	Name	
	Address	
	Telephone / Fax numbers	
	e-mail address	
1.7	Subcontractor to attach copies of the following original documents	All documents to the extent relevant to ITT Clause in support of its qualifications
The following two information are applicable for national Subcontractors		
1.8	Subcontractor's Value Added Tax Registration (VAT) Number	
1.9	Subcontractor's Tax Identification Number (TIN)	



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[The foreign Subcontractors, in accordance with ITT, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]

2. Key Activity(ies) for which it is intended to be Subcontracted

2.1	Elements of Activity	Brief description of Activity
2.2	List of Similar Contracts in which the proposed Subcontractor had been engaged	
	Name of Contract and Year of Execution Value of Contract Name of Employer Contact Person and Contact details Type of Work Performed	

Signature (Name of Authorized Signatory of the Proposed Sub-Contractor)



[The following table shall be filled in for
Venture]

the Applicant and for each partner of a Joint

Applicant's Legal Name: [insert full name]

Date: [dd/mm/yy]

Joint Venture Party Legal Name: [insert full
name] IFP No. and title: [insert RFP number
and title]

Page [insert page number] of [insert total number] pages

Non-Performing Contracts in accordance with Qualification Criteria and Requirements			
<input type="checkbox"/> Contract non-performance did not occur during the [number] years specified in Qualification Criteria and Requirements, <input type="checkbox"/> Contract(s) not performed during the [number] years specified in Qualification Criteria and Requirements,			
Year	Non performed portion of contract	Contract Identification	Total Contract Amount (Current value)
[insert year]	[insert amount and percentage]	Contract Identification: [indicate complete contract name/ number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Reason(s) for non performance: [indicate main reason(s)]	
Pending Litigation, in accordance with Qualification Criteria and Requirements			
<input type="checkbox"/> No pending litigation in accordance with Qualification Criteria and Requirements,. <input type="checkbox"/> Pending litigation in accordance with Qualification Criteria and Requirements, as indicated below.			
Year	Outcome as Percentage of Total Assets	Contract Identification	Total Contract Amount (current value)
[insert year]	[insert percentage]	Contract Identification: [indicate complete contract name, number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Matter in dispute: [indicate main issues in dispute]	Total Contract Amount (current value)



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Personnel Information (Form -6)

[This Form should be completed for each person proposed by the Tenderer on Form PW5-2& PW5-3, where applicable]

Name of the Applicant:	<i>[insert Title]</i>
Invitation for Tender No:	<i>[indicate RFP No]</i>
Tender Package No	<i>[indicate Package No]</i>
This Package is divided into the following Number of Lots	<i>[indicate number of Lot(s)]</i>

A. Proposed Position (tick the relevant box)		
<input type="checkbox"/> Electrical/Mechanical Engineer	<input type="checkbox"/> Prime Candidate	<input type="checkbox"/> Alternative Candidate
<input type="checkbox"/> Key Personnel	<input type="checkbox"/> Prime Candidate	<input type="checkbox"/> Alternative Candidate
B. Personal Data		
Name:		
Date of Birth:		
Years overall experience:		
National ID Number:		
Years of employment with the Tenderer:		
Professional Qualifications: 1.		
2.		
3.		
4.		
C. Present Employment <i>[to be completed only if not employed by the Applicant]</i>		
Name of the Employer:		
Address of the Employer:		
Present Job Title:		
Years with the present Employer:		
Tel No:	Fax No:	e-mail address:



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Contact [*manager/personnel officer*]:

D. Professional Experience

Summaries professional experience over the last twenty (20) years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.

	From	To	Company / Project / Position / Relevant technical and management experience.
1			
2			
3			
4			
5			

(Name and Signature of the
Proposed Personnel)



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TECHNICAL SPECIFICATIONS FAÇADE

Package-05



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SECTION-01

DETAIL GENERAL AND MATERIALS SPECIFICATIONS

1.0 GENERAL PROVISIONS

1.1 Location and Description of the Project

The project envisages Construction of Asian University for Women at Pahartoli, in Chittagong, Bangladesh.

1.2 Scope of Work under the Contract

The scope of work under this Contract is strictly limited to the Façade / Curtain Wall / Glazing Systems of the Academic Building and shall include design development (as defined herein), engineering, supply, fabrication, installation, testing, commissioning, and handover of the complete façade system in accordance with the approved architectural drawings, technical specifications, and applicable codes.

Any references to RCC works, foundations, superstructure, masonry, plumbing, landscaping, or other non-façade works appearing elsewhere in the Contract Documents shall be deemed not applicable to this Package.

The façade system shall include, but not be limited to: aluminum framing, glazing, vision glass, spandrel glass, sealants, gaskets, anchors, brackets, fire-stopping at slab edges, interfaces with structure, access provisions for cleaning and maintenance, and all accessories required for a complete and functional system.

1.3 Submittal

The submittal by the contractor shall include all shop drawings, reports samples, test results etc. to conform to applicable provisions of the general conditions of contract and as required under various sections of the specifications. The purpose of the submittal required herein is to assure that items furnished and installed are in all matters of consequence equivalent to the specified items and that proper records are maintained of the changes made in the specifications, drawings or in materials used or deviations made in the construction process.

The Contractor shall forward all submittal with a forwarding letter stating that the submittals have been carefully reviewed by the construction and the on-site conditions of dimensions, where necessary and correctness have been verified and checked.

The submittal shall be reviewed by the Engineer-in-charge/ Consultant to verify that the contractor's obligations are fulfilled as per true intention of the contract. In checking and approving submittal, the Owner does not relieve the contractor from responsibility for construction errors or omission, which may occur, even though



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executed in accordance with approved shop drawings. Any such errors or omissions as are discovered later should be made good by the Contractor irrespective of any approval by the employer at no additional cost to the employer. This does not apply to modifications approved as specified herein.

The Contractor shall make submittal sufficiently in advance of construction requirements to allow time for checking and rechecking if necessary. Any work fabricated or installed by the contractor prior to approval of shop drawings or other required submittal shall be done at his own cost.

1.4 Shop Drawings

The Contractor shall prepare at his own cost Shop Drawings to show all elements of construction that are required to assure proper shop fabrication or job installation of items requiring Shop Drawings. All materials quality, finishes, construction details as specifically related to the project must be shown on the Shop Drawings.

1.5 Laboratory Test Results

Where laboratory tests are required by the specifications, either before or during construction operations, the Contractor will arrange at his own cost to get such tests done in accordance with the appropriate reference requirements specified in the Contract. Where such tests are conducted prior to actual construction for approval purposes the Contractor shall submit reports of the test results to the Employer/Consultant for approval along with other submittal materials before starting the work.

1.6 Electrical, Mechanical, Sanitary and Plumbing

The general provisions of the contract agreement shall also apply to the electrical, mechanical sanitary and plumbing embedded works covered under this contract and the works shall be executed in conformity with the specifications and schedule of items provided herein.

1.7 Examination and Acceptance

This clause shall be applicable to all items of work under this contract.

During the progress of work each item of work shall be inspected and passed as accepted by the Engineer-in-Charge/Consultant or his representative after proper examination. Any work not conforming to the drawing and specifications and schedule of items shall be rejected and the Contractor shall take all remedial measures as directed by the Engineer-in- Charge/Consultant at the Contractor's expense.

In addition to the examination referred to above the final survey will be made by the Engineer-in-Charge/Consultant before the work is taken over, and if a part the whole is not found to be in accordance with the requirements of the drawings, specifications and schedule of items, the Contractor will be required to correct such discrepancies to meet the limits of specified tolerance for which no extra payment shall be allowed to the Contractor.

2.0 TAKING OVER POSSESSION OF SITE

The Contractor shall upon receiving the work order, immediately take possession of the site and move his men and materials to prepare the site in order to create conditions for starting the work as per terms of contract, drawings and specification.

3.0 MOBILIZATION

The work of mobilization shall consist of carrying out the following listed actions together with all other requirements of the Contract in regard to commencing the execution of the work by the Contractor, at his own cost.

- (a) Procurement, assembly, repairs and makes running condition of all the contractor-owned constructional plant and equipment by the contractor at any other site convenient to him.
- (b) Transportation of Contractor-owned constructional plant, equipment and material from the storage site as mentioned in (a) above to the construction site.
- (c) Assembly and installation of all items of constructional plants, equipment etc. required for the execution of the works.
- (d) All materials shall be properly stored, inventoried and protected until used into the work and all plants and equipments shall be tested and made ready for use.
- (e) The Contractor shall construct a suitable site office building, and shed for storage of materials and equipment, workshop, other additional buildings and First-Aid Centre attended by suitable Medical Assistants to provide First-Aid at Contractor's cost. If proper space is not available for storing Aggregates, Sand in bulk, Contractor shall arrange his own accommodation. Max. 3 days-consumption materials may be available at site.
- (f) Maintain all temporary roads, fences and sanitary facilities, keep all areas used by the Contractor clean, neat, and well-kept and in good repair and provide proper drainage to protect the area from surface run-off and flooding.
- (g) Provide all the required electric power, water supply, gas supply and other utility connections of temporary installations at the site as may be necessary for the execution of the work.
- (h) Obtain all insurance Policies, Performance bond and payment guarantees as required under this Agreement and conditions.
- (i) Payment of all fees, permits, licenses, etc. As may be required covering the execution of the contract.

4.0 CLEANING OF SITE

4.1 Before Starting the Work

The Contractor shall remove all the undesirable materials from the site to facilitate construction work at site through cleaning the site by dismantling and removing temporary sheds, columns, pillars, pavements, rubbish, earth, broken materials, fences, boundary walls etc. at his own cost.

4.2 During Execution of Work

During execution of the work the contractor shall remove or protect, at his own cost, different service line if any, viz. sewerage, water supply pipe, drains, electric/telephone cables etc. after taking prior permission from the relevant authorities and Engineer-in- Charge.

During execution of the work excess spoil earth, debris, rubbish, any dismantled items or any such unwanted item shall be removed from site by the Contractor at his own cost to a safe place as directed by the Engineer-in-Charge.

4.3 After Completion of Work

The work of cleaning the site shall consist of carrying out the following listed actions together with all other requirements of the Contract in regard to completion of the work by the Contractor at his own cost and handing over the work complete to the Employer.

- (a) The dismantling and removal of all Contractors' constructional plants and equipment from the Site.
- (b) Dismantling and removing of temporary building from the Site.
- (c) Dismantling transporting, reconditioning and storing of all constructional plants, equipment, surplus materials (if any) etc. furnished by the Employer to places as directed by the Engineer-in-Charge in a suitable manner.
- (d) Removal of all water, electricity, gas supply connections and utilities, which become redundant on the completion of the work in a manner directed by the Engineer-in-Charge.
- (e) Over all clean-up of the site and work area in a manner satisfactory to the Engineer-in-Charge.

5.0 TEMPORARY FACILITIES

5.1 General

The Contractor shall, at his own expense, provide all necessary temporary facilities required to accomplish the work in a safe and orderly manner as specified in the contract.

5.2 Field Office and Installation

The Contractor shall provide and maintain a suitable field office as stated in the Bill of quantities and The Contractor shall, at his own expense, provide such additional storage sheds and temporary buildings for his staffs and workers as required. The design and location of such structures shall be approved by the Engineer-in-Charge/Consultant. The field office shall be use by the supervisory personnel of the Consultant and the Employer and by persons as required by the Contractor and as required for storage and display of drawings and other records. It shall be accessible at all times to the Owner's / Consultant's representatives.

5.3 Sanitary Facilities

The Contractor shall at his own cost provide adequate number of toilets for Engineers office and adequate number of toilets as necessary for all persons engaged on the work. The provisions for sanitary facilities and the maintenance thereof shall be subject to the approval of the Engineer-in-Charge.

The wastage from toilets shall be disposed of by means of septic tank and soak pit or by some other acceptable disposal system. All sanitary facilities shall be kept clean and shall be frequently disinfected by the Contractor.

5.4 Water

The Contractor shall at his own expense, provide adequate supply of water of acceptable quality at the construction site for execution of the work

5.5 Drinking Water

The Contractor shall at his own cost provide drinking water for all personnel and workers on the works. All water, which may be used for drinking purposes, shall be obtained from a recognized source of potable water.

5.6 Electric Power and Lighting

The Contractor shall at his own make all arrangements for obtaining temporary electric power and shall pay all costs in connection thereof as well as the costs of all energy consumed during execution of the work until the date of completion.

The Contractor shall, at his own expense provide adequate lighting at the construction site during the execution of work.

The Contractor shall at his own expenses, remove the temporary electrical power and lighting systems after completion of the work as directed by the Engineer-in-Charge.

5.7 First Aid Centre

The Contractor shall provide at his own cost a First Aid Medical Centre with adequately qualified personnel, materials and medicine for services at all time during execution of the work.

5.8 Fire Fighting Equipment

The Contractor shall arrange at his own cost adequate equipment at site for bringing, initial fire hazards, under control.

5.9 Protective Barrier and Hanging Platform

The Contractor shall arrange at his own cost suitable protective barriers at the edge of pits, openings in floors, vertical ducts, at the edge of floors, roof, vertical walls, etc. Especially at higher floor levels so that careless fall of working personnel may be safeguarded.

The Contractor shall provide at his own cost wire net, platform or any other suitable device placed in horizontal plan around the vertical faces of the building at suitable places immediately below the area where work is in progress at a particular time so that careless fall of working personnel may be guarded against.

5.10 Police and health regulations

The Contractor shall obey all municipal/City Corporation, police and health regulations and all other regulations.

5.11 Lifts and Cranes

The Contractor shall provide at his own cost lifting arrangement and cranes for lifting men and materials to higher floors as required for execution of the work.

6.0 PROTECTION AND SAFETY

6.1 Measures to be Taken

All rubbish and debris shall be removed from the project site and disposed of at a safe distance as per direction of the Engineer-in-Charge so as not to create any obstruction to work or give rise to health hazards.

The Contractor shall take all necessary precautions to ensure against fire during construction. All necessary arrangements must be made by the Contractor for providing adequate protection against fire hazards at the construction site during the period of execution of the work.

6.2 Safety Manuals

International Safety Manuals used in Engineering Construction Project shall be adopted for protection and safety at the construction site of the project during the period of construction.

7.0 MATERIALS, TOOLS AND EQUIPMENT

General

The requirements of this section are applicable to all work under this Contract.

7.1 Products

The Contractor at his own expenses shall provide the materials, products and equipment as shown on the drawings or as specified in the Contract. The Contractor shall provide necessary transportation, safe storage, supervision etc.

7.2 Equal Products and Equivalents

Except as specially required otherwise, the mention of any product materials trade name is intended to establish a standard of quality, appearance, size & durability. The products of

other manufacturer's may be used subject to the conditions as stated in Clause 7.04 and 7.05 hereinafter.

7.3 Additional Costs Related to Substitutions

Any additional cost, or any loss or damages, arising from the substitution of any material or method from those originally specified shall be borne by the Contractor, unless such substitution was made at the written request or direction of the Owner.

7.4 Failure of Equal Products

Where products are accepted based on representations of the Contractor, as an approved equals, they shall be used subject to the same installation and performance standards as required by the original specification. Approval of a request for substitution shall not modify contract requirements except as specially note. Subsequent failure of 'approved equals' shall be considered first and evidence of improper installation or production in equality and the installation shall be repaired or corrected as directed by the Engineer-in-Charge at no additional cost to the Owner.

7.5 Equipment and Tools

The Contractor shall furnish all constructional plans for the proper execution of the work at his own expense and keep them clean and in proper working condition. The Contractor shall supply the Employer / Engineer-in-charge a list of major items of the constructional plants, equipment and tools that he proposes to use in execution of the work.

8.0 PREPARATION OF SITE

8.1 Mobilization/Site Clearing/Temporary Facilities

Appropriate conditions of clauses from the mobilization, clearing of site and temporary facilities as specified in the previous Article Nos. 3, 4 & 5 herein above shall be completed before starting the work as felt necessary and direction by the Engineer-in-Charge.

8.2 Unfavorable Weather Condition

No utilities shall be constructed or installed and no pavement or fill material shall be placed, spread, or rolled during unfavorable weather conditions. When the work is interrupted by rain, fill operations shall not be resumed until field test by the Engineer's representative indicates that the moisture content and density of the fill are as specified in these specifications, or are in condition suitable enough, in the opinion of the Engineer's representative, for resuming the work.

8.3 Dewatering Arrangements

The Contractor shall arrange at his own cost necessary arrangement for bailing out of surplus water from the foundation pits, trenches, etc. by installing pumps, trenches, pipes etc. as may be necessary during the construction period.

8.4 Checking Site Measurement

The Contractor shall check all the vital measurements of the building layout plan and submit a report to the Employer/Engineer-in-Charge the deviation, if any, from the dimensions shown in the approved drawings for the building before starting construction work in case of any deviation of unacceptable amount, the Engineer-in-Charge will inform the Contractor of the remedial measures which may be necessary in a particular situation.

8.5 Permanent Bench Marks

Before commencing the work, the contractor shall establish at least 3 (three) numbers permanent bench mark (BM) on pucca pillars in suitable positions as per direction of the Engineer-in-Charge at his own cost. These B.M. shall be incorporated in the drawings and used for controlling all levels of construction work. The contractor at the own expense shall make necessary arrangement to protect those B.M. pillars against disturbance/ damage including its maintenance.

8.6 Reference Line Pillars

The contractor shall establish pucca reference line pillars (axis pillars, central line pillars etc.) At his own cost, for all structures before starting of excavation of foundation pits/trenches as per standard practice and direction of the Engineer-in-Charge.

9.0 SAMPLES & TESTS

9.1 Samples

In addition to the special provisions made hereafter as to sampling and testing of materials by particular methods, the Engineer-in-Charge may call for samples of all materials together with details of their sources and workmanship proposed to be employed in the execution of the works and such samples shall be furnished by the contractor without delay and without charge. Approved samples will be kept by the Engineer-in-Charge who may reject at any time all materials of workmanship not corresponding in quality and character with the approval sample. The contractor shall provide without extra charges, suitable labeled containers for the storage of samples.

9.2 Tests

The Engineer-in-Charge may send inspectors to the manufacturer's premises to test materials or supervise their manufacture. Should the Engineer-in-Charge decide not to send an inspector to the manufacturer's works, the contractor shall obtain from the manufacturer certificates of tests, proof sheets, etc. showing that the materials have been tested in accordance with the requirements of the specification relating thereto. Notwithstanding any test that may have been carried out before materials leave manufacturer's premises not the production of manufacturer's certificates of test, proof sheets etc. materials may also be tested after delivery to site, and the Engineer-in-Charge shall be at liberty to reject after delivery or after incorporation in the permanent work any materials found to be unsuitable or not in accordance with the specification.

9.3 Additional Tests

In addition to the tests required under the clauses hereof, the Engineer-in-Charge shall have power to order independent tests of materials to be carried out by some Agency appointed by him at such place as he may determine and the results to such tests shall be binding upon all parties, no claim by the contractor being admissible in respect or as a consequence thereof.

9.4 Standard Specification

Except where otherwise specified or authorized by the Engineer-in-Charge all materials shall conform to the latest edition of the appropriate ASTM (American Society for Testing and Material). Specification or to any other standard specification of whatever origin, that may be approved by the Engineer-in-Charge.

9.5 Works Test Rules

Tests of concrete work shall be conducted in accordance with ASTM C-39 and other rules as prescribed by Engineer-in-Charge.

10.0 TEST TO BE PERFORMED

Unless provided otherwise in the specification or elsewhere in the Contract Documents, any or all of the following tests shall be performed as may be require by the Engineer in Charge / Consultant to ascertain whether the quality of material and/or of any finished or partially finished work is appropriate for the purpose which it is or was intended to fulfil in accordance with the specifications. All cost including transportation, storage and incidental cost of the tests required hereunder shall be borne by the contractor at any place directed by the Engineer in Charge / consultants.

11.0 CONTRACTORS SITE LABORATORY

The Contractor shall provide and maintain a site laboratory as stated in the Bill of quantities for the use of the Contractor and the Engineer / Consultant including furniture, testing equipment and consumable stores necessary to carry out the tests listed in the **Specifications**. The Contractor shall provide and maintain a Site Laboratory in a semi-permanent building of plinth area as required by the Engineer in Charge with CC floor (minimum thickness 150mm), brick wall & tin roof. Other details shall be as per Technical Specification. The building shall be watertight and provided with electricity, potable running water and sewerage connections. The location of septic tank(s) and soak-away(s) is to be approved by the Engineer. Doors shall be fitted with approved locks, and windows shall be provided with mosquito screens and blinds and shall have interior locking devices.

The Contractor shall submit for the approval of the Engineer before construction, plans and drawings of the proposed laboratory indicating location, overall size, construction details and layout of benches, washing facilities, furniture, testing equipment, sample storage etc. The Engineer may require revision of the plans prior to giving approval for construction. The Contractor shall also submit details of proposed testing equipment, furniture and fittings to the Engineer for approval.

The Contractor shall maintain the laboratory, furniture, fittings and testing equipment for the duration of the Contract and replace any part or item that is irreparably damaged or lost. The Contractor shall pay all expenses in respect of water, electricity and other consumables necessary for the running of the laboratory and shall arrange for the laboratory to be regularly cleaned.

The Contractor shall not be permitted to commence permanent works requiring on-Site testing until the Site laboratory is complete in all respects, unless temporary testing procedures proposed by the Contractor have been approved by the Engineer.

At the end of the Contract, all materials recovered from dismantling the laboratory, together with all furniture, fittings and testing equipment will remain the property of the Contractor.

11.1 List of furniture and equipments for site laboratory

Item	No/Set
1.5 Ton Capacity Air Conditioner	1
Desks 1.5m x 0.8m clothed covered with glass sheet	1
Desks 1.2m x 0.8m clothed covered with glass sheet	2
Armed cushioned chair	3
Armless cushioned chair	5
File cabinet (4 drawers size-1.3m x 0.5m x 0.6m)	1
Battery operated scientific 12 digit calculator	1
Heavy duty punch	1
Heavy duty staplers	1
Rack 2.5m x 0.2m x 0.5m	2
Utensils, cutleries and crockery for 6 persons	1
Electric Kettle	1
Tools	2
1.2m x 0.8m normal table	1

11.2 Staff for Materials Testing

The Contractor shall provide qualified laboratory engineers, technicians, assistants, laborers, etc. to carry out sampling and testing of materials in accordance with Specifications. Laboratory staff shall be subject to the approval of the Engineer and be available to assist the Engineer with materials testing, as and when required.

11.3 Maintaining the Test Records

The Contractor shall maintain complete records of test results, which may be inspected by the Engineer at any time. All test results shall be recorded on standard forms approved by the Engineer and shall be signed by the Contractor's engineer or technician in charge of the laboratory. Completed forms shall clearly show the locations of samples, sampling dates and testing dates. Samples shall be numbered serially at the time of sampling. A copy of all test results should be submitted to the Engineer immediately after completion of the test.

The Engineer will be informed prior to any sampling or testing carried out in the laboratory and will have the right to use the facilities and equipment to make his own tests. The Contractor shall have the right to witness any sampling or testing carried out by the

Engineer. On completion of the Contract the original copies of all test results shall be handed over to the Employer, via the Engineer.

12.0 ALUMINUM MEMBERS

Aluminum doors, windows, glazing etc. shall be of approved standard conforming to the U.S. Architectural Aluminum Manufacturing Association (AAMA) or equivalent specifications. The frames and sash members shall be of extruded shape made of 6063-T5 high quality aluminum alloy having a section thickness as shown on the drawings or indicated in the schedule of items and Bill of Quantities and shall conform to U.S. Aluminum Association or equivalent standard.

13.0 GLASS

- 13.1 **General:** Glass shall be of approved best quality which shown in the drawing and in the Schedule of Items & Bill of quantities. Which full fill the following requirements.
Glass shall be conforming to National standards Chinese GB 11614-1999
Glass shall meet the following requirements in case of foreign glass. (Follow specifications mentioned in BOQ)

Transmittance

Visible light	70%
Solar energy	33%
Ultra - violet	10%

Reflectance

Visible light exterior	11%
Visible light interior	12%
Solar energy	31%

ASHRAE U- Value

Winter	0.29 Btu (hr x sft x degree F)
Summer	0.26 Btu (hr x sft x degree F)

EUROPEAN U- Value

1.5

Shading coefficient	0.44
Relative Heat gain	91 Btu/Hr x sft.
Solar factor (SHGC)	

LSG

1.85

13.2 STRUCTURAL STEEL

All steel used in doors & windows and all metal works shall be the products of reputable manufacturer and shall conform to the American Standard Specifications. The section sizes and profile shall be as per requirement for the specific works as shown in the drawings.

SECTION-02

PARTICULAR SPECIFICATION

1.00 ALUMINUM DOORS, WINDOWS ETC.

- 1.01. **Description:** The work under this item shall consist of supplying and fixing aluminum products of various types such as doors, windows, curtain glazing, sky light composite panel etc. fitted with necessary hardware, glass and finished in accordance with applicable drawings, specifications for doors and window finish schedule, as stated in the schedule of items and bill of quantities and these specifications.
- 1.02. **Materials and Products: Doors, Windows, Curtain Walls, fixed glazing, casement/swing windows, composite panel etc.** shall approved standard conforming to the U.S. Architectural Aluminum Manufacturing Association (AAMA) or equivalent specifications as stated in the bill of quantities or in the drawings. The frames and such members shall be of extruded shape made of 6003-T5 high quality aluminum alloy having a minimum section thickness as shown on the drawings or indicated in the schedule of items & bill of quantities and shall conform to U.S. Aluminum Association or equivalent standard and will be RAL 8019 grey brown colour.

Fasteners, Hardware and Anchors: Fasteners, hardware and anchors shall be of aluminum or non-magnetic, non-corrosive material compatible with aluminum. The doors lock shall be provided as stated in the bill of quantities and door hardware schedule.

Closer, push / pull and kick plates shall have to match with the frames. Any other hardware to be incorporated in the work shall also match with the frame. Assembly and installation screws shall be of stainless steel. Doors, windows, curtain walls etc. shall be installed with Teflon injected expanding bolts, sills shall contain adequate provisions for drainage. Head, sills and jamb members shall be of one-piece construction. Aluminum to aluminum contact between hardware parts or moving members shall not be permitted. Such contracts shall be properly insulated.

Glazing Beads: Glazing beads shall be aluminum shape-in interchangeable type.

Weather Stripping: Weather stripping shall be of neoprene or silicon treated or approved equal.

Joints: All joints shall be mechanically done square (telescopic) joints. No mistral joints shall be accepted. No forced fitting shall be accepted. All units shall be fabricated at the factory to accurate dimensions. It shall be rigid and designed to permit complete weather stripping. In principle, the parts should be put together by self-tapping screws.

Surface Finish: All exposed surfaces of aluminum members shall be factory finish and of substantially inform appearance conforming to "Architectural" standard'.

All exposed surfaces shall be given a natural Anodic Oxide Hardcore coating of accurate thickness specified in the BoQ and a density specified in the BoQ per square inch and a uniform colour tone conforming to the U.S. Aluminum Association or equivalent standard. The colour spectrum shall be a lock. Finish of hardware shall match closely with the door/window/curtain wall finish as stated in the Bill of Quantities (BoQ)

Accessories: Accessories necessary for proper fixing and operation such as anchors, clips, fins, sub-frames, metal sills, mullion, covers, casing, other trim, cleaning anchors, glazing beads, weathering and glazing strips, hardware and mechanical operators shall be supplied ready to set in place with the door, window, curtain wall units. All accessories shall be foreign made best quality as approved by the Engineer-in-Charge.

Steel sub-frames shall be painted with Zinc Chromatic primer in case of steel. Steel anchor shall be properly insulated from aluminum frame.

Sealant: Sealant shall be one-part elastic compound of “Architectural” grade caulk and shall be in matching colour or as specified in the Bill of Quantities (BoQ).

1.03. **Shop Drawings:** The Contractor shall prepare detailed design of all work involved in line with the Consultant’s design and prepare shop Drawings for the total work and submit to the Consultant / Engineer for approval before factory fabrication. All exterior doors, windows and curtain walls shall be designed to withstand a wind pressure of 220 kg./cm² or as specified in guide drawing.

1.04. **Installation:** All units shall be assembled at site under proper conditions, erected, fixed and glazed in place in strict conformity with Manufacturer’s instruction. All cut-out operations for hardware preparation shall be made accurately and reinforced as required.

All doors, windows, curtain walls, etc. shall be set plumb, square, level and in exact alignment with surrounding works and shall be securely anchored ready for operation. All joints between the masonry opening and frames shall be caulked and sealed after installation of the frames. All installation works shall be done & finished in such a way as to ensure a free & smooth operation.

Abrasion or other injury to finished surfaces shall be carefully avoided. Cleaning should be accomplished with plain water or a petroleum type cleaning agent or with the manufacturer’s recommended cleaning reagent. No corrosive reagent shall be used.

1.05. **Method of Measurement:** All aluminum door with glass assemblies complete including all hardware as stated in the schedule of items and bill of quantities, installed in place will be measured in square meter of the installed doors.

All aluminum window (portion of fixed glazing, portion of casement/swing and composite panel etc.) with glass assemblies complete including all hardware as stated in the bill of quantities, installed in place will be measured separately in square metre (sqm) of the installed work.

1.06. **Basis of Payment:** All aluminum door and window frame shutter with glass including hardware accessories will be paid at the contract unit rate per square meter for the approved and accepted installed doors, curtain glazing, fixed glazing, casement/sewing, sky light etc. which price shall constitute full compensation for material, labour, fitting fixing etc. all complete.

All aluminum window, fixed glazing, skylight including glass and composite panel will be paid at the contract unit rate per square metre (sqm) for the measured area of approved and accepted installed works. which price shall constitute full compensation for material, labour, fitting fixing etc. all complete.



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Bill of Quantities (BoQ)
Façade Work

COST ABSTRACT

FACADE (Curtain Glazing, Swing windows, Skylight, Fixed glazing, Doors & Composite Panel) work for Construction of Three Storied with a Semi-Basement Academic Building for Asian University for Women, AUW, Pahartoli, Chattogram.

PACKAGE-3

SL. NO.	DESCRIPTION	AMOUNT IN TAKA
1	2	3
A.	BILL NO: 1:- GENERAL WORKS	
B.	BILL NO: 2:-GLAZED DOORS	
C.	BILL NO:3:ALUMINUM GLAZING WORKS	
	GRAND TOTAL TK=	

(In Word: Taka

.....only)



ASIAN UNIVERSITY
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Schedule of Items, Bill of Quantities (BoQ) of FAÇADE (Curtain Glazing, Swing windows, Skylight, Fixed glazing, Doors & Composite Panel) work for Construction of Three Storied with a Semi-Basement Academic Building for Asian University for Women, AUW, Pahartoli, Chattogram.

SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
BILL NO: 1:- GENERAL WORKS					
1	<p>Erection and maintenance of site office and removal of the same after completion of work in accordance with the conditions of contract. In addition to the office required for his own use, the contractor shall provide and maintain furnished field office for the use of the Engineer-in-charge and his staff. The field office is to have a concrete floor, adequate foundation, brick walls, false ceiling of hard board with seasoned Garjan wood frame and painted, and all windows are to be glazed and provided with steel grill. Outside and inside wall surface are to be painted on plaster acceptable to the Engineer-in-charge. The field office shall be maintained in a secure and watertight condition by the contractor until the completion of the contract and shall be provided with electricity, running water and sewerage. All doors shall be fitted with approved locks and windows shall be provided with screen/blinds. Before construction the contractor shall submit plans and drawings showing proposed details and location for the field office, including foundations, access roads, shades, layout of electrical and</p> <p>water supply and hard standings thereto for the approval of the Engineer-in-charge. The Engineer-in-charge may require revision</p>				



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	of the plans prior to giving approval for construction.				
	The contractor shall also submit details proposed furniture, fittings and other items of equipment and plant to the Engineer-in-charge for approval. The office, complete with furnishings, fittings, access roads and hard standings shall be ready for occupation by the Engineer-in-charge (This is a time related item; proportionate payment for this item shall be made distributing in each bill on the basis of percentage progress of the whole works under contract)				
1.1	Engineer's site office of minimum 15 sqm plinth area with providing necessary facilities including office furniture, consumables, stationeries, water purifier etc.	1.00	Job		
2	Providing necessary facilities in construction site for maintaining site safety including safety helmet, safety belt, apron, gumboot, goggles etc.	1.00	LS		
3	Providing and maintenance signboards and to be placed at a suitable place of the site including submission of proposals for the materials of the signboards and text layout to the Engineer-in-Charge / Consultant for approval which will be positioned as directed by the Engineer-in-Charge/ Consultant. and removing the same on completion of the Works or as instructed by the Engineer-in-Charge/Consultant.	1.00	sqm		
4	Supplying and providing of first aid box with necessary materials/medicine (hygienic gown, thermometer, adhesive dressings, antiseptic solutions, bandages, cotton balls or swaps, emergency blanket, gloves, hand sanitizer, ice pack, saline etc). All complete as per direction of Engineer-in -charge.	1.00	Each		



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
5	<p>Providing 3 sets as-built drawings subject to Engineer's approval produced in AutoCAD software in 584.5 mm x 413.5 mm (A-2 size) standard drawing paper, and operating and maintenance manual of the equipment and plant incorporated in the works, if any, in original by the date stated in the particular conditions of contract (PCC). If the contractor does not supply the as-built drawings and operating & maintenance manuals by the date stated in the particular conditions of contract (PCC), or they do not receive the Engineer-in-charge's approval, the Engineer-in-charge shall withhold the amount stated in the PCC from the payments due to the contractor.</p> <p>The as-built drawings must show the permanent works as actually constructed and reflect the revision of drawings supplied to the contractor during the Contract as well as revisions of drawings supplied to the contractor during the contract.</p> <p>(One set of as-built drawings shall be considered for measurement and payment)</p>	1.00	Per Tender		
6	<p>Preparation & submission of work programme / schedule to the Engineer-in-charge for approval prior ground breaking showing the events (works) and successive sub-events of works including all the management & control parameters like Earliest Start Time (EST), Earliest Finish Time (EFT), float events on critical path, resource allocation etc. with description of general method of works, in orderly manner all in the form of network diagram prepared in computer software like MS project/ Primavera and presenting in displayable hard and soft copy minimum 3 (three) sets.</p> <p>(This is a time related item. Proportionate payment for this item shall be made distributing in each bill on the basis of percentage progress of the whole works under contract)</p>	1.00	Per Tender		



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
7	Providing coloured progress picture & video of works, regular data updating & all other relevant works regarding online monitoring system etc.	9.00	per month		
8	Mobilization and cleaning site before commencing actual physical work and during contract period and demobilization after completion of the Works under contract accepted by Engineer-in-Charge/Consultant. This work shall also covers clayey cleaning and clearing, and in the ground to the project can be executed an extent that all the events of works of smoothly in a working environment with a particular attention on safety and security in all respects, agreed by the Engineer / Consultant, where payments are to be based on ground area determined by the Engineer-in-Charge / Consultant and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the Engineer-in-Charge / Consultant.	1.00	LS		
				Total for (Bill No: 1) =	



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
BILL NO: 2:-GLAZED DOORS					
1	<p>SWING DOOR (SINGLE /DOUBLE SHUTTER): Supplying and installation of swing glazed door (Single or double shutter) using following listed approved materials or any other materials is required etc complete as per design, specification and direction of Engineer in Charge / Consultant.</p> <p>1. Glass: 6mm LOW-E+12A+6mm Tempered Insulated Glass, adopted brands: Shanghai Yaohua Pilkington(SYP)/CSG/ XINYI GLASS (XYG) /Equivalent</p> <p>2. Aluminum Alloy Profile: Outer frame: 70x19x2 mm Shutter Frame: 82x38x2 mm Aluminum surface with powder coating treatment, Adopted brands: Wacang/Xingfa/Equivalent.</p> <p>3. Silicone Sealant: Silicone Weather Sealant & Silicone Structural Sealant, adopted brands: SILANDE/ ANTAS/ Equivalent.</p> <p>4. Swing Door Hardware Fittings: Adopted brands: KINLONG/3H/Equivalent (All door hardware shall be as per attached door hardware schedule)</p> <p>5. SS Screws: SS 316 Grade, Brand: Sikou/Gola/Equivalent.</p> <p>6. Other Auxiliary Materials: Excellent brands in China.</p> <p>(Contractor shall at his own cost wil prepare shop drawings for approval by the Engineer / Consultant before execution of works)</p>	250.00	sqm		
				Total for (Bill No: 2) =	



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
BILL NO:3:ALUMINUM GLAZING WORKS					
1	<p>CURTAIN WALL GLAZING : Supplying and installation of Curtain Wall Glazing using following listed approved materials or any other materials is required etc complete as per design, specification and direction of Engineer in Charge / Consultant.</p> <p>1. Glass: 6mm LOW-E+12A+6mm Tempered Insulated Glass, adopted brands: Shanghai Yaohua Pilkington(SYP)/CSG/ XINYI GLASS (XYG) /Equivalent</p> <p>2. Aluminum Alloy Profile: Vertical profile: 172x60 x3-5 mm Horizontal profile: 120x60 x2.5mm Cover: 60x11x1.2 mm Aluminum surface with powder coating treatment, Adopted brands: Wacang/Xingfa/Equivalent.</p> <p>3. Galvanized Steel Embedded Parts: Mild Steel(50 Grade),Locally Processed.</p> <p>4. Fire barrier: 100 mm thick fire rock wool (80 kg/m3) covered with 1.5 mm thick GMS Plate.</p> <p>5. Silicone Sealant: Silicone Weather Sealant , adopted brands: SILANDE/ ANTAS/ Equivalent.</p> <p>6. AP flashing: Adopted brands: Globond/ Acebond/ Jinkubond/Equivalent. (All door hardware shall be as per attached door hardware schedule)</p> <p>7. SS Nut Bolts, Screws: SS 316 Grade, Brand: Sikou/Gola/Equivalent.</p> <p>8. Other Auxiliary Materials: Excellent brands in China.</p> <p>(Contractor shall at his own cost wil prepare shop drawings for approval by the Engineer / Consultant before execution of works)</p>	2,700.00	Sqm		



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
2	<p>CASEMENT/SWING WINDOW: Supplying and installation of Casement/swing window using following listed approved materials or any other materials is required etc complete as per design, specification and direction of Engineer in Charge / Consultant.</p> <p>1. Glass: 6mm LOW-E+12A+6mm Tempered Insulated Glass., adopted brands: Shanghai Yaohua Pilkington(SYP)/XINYI Glass (XYG)/CSG/Equivalent</p> <p>2. Aluminum Alloy Profile : Outer frame: 47x50x1.5 ~2 mm Shutter Frame: 64x60x 1.5-2 mm Aluminum surface with powder coating treatment, adopted brands: WACANG/XINGFA/Equivalent.</p> <p>3. Swing Window Hardware Accessories: Brand: Kinlong/3H/Equivalent</p> <p>4. Silicone Sealant: Weather proof silicone sealant , adopted brands: SILANDE/ ANTAS/ Equivalent, 5. SS Screws: SS 316 Grade, Brand: Sikou/Gola/Equivalent. (All door hardware shall be as per attached door hardware schedule)</p> <p>6. Other Auxiliary Materials: Excellent brands in China.</p> <p>(Contractor shall at his own cost wil prepare shop drawings for approval by the Engineer / Consultant before execution of works)</p>	560.00	Sqm		



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
3	<p>Aluminum SOLID PANEL /COMPOSITE PANEL: Supplying and installation of aluminium solid/composite panel window using following listed approved materials or any other materials is required etc complete as per design, specification and direction of Engineer in Charge / Consultant.</p> <p>1. Panel: 3mm Thick Aluminum Solid Panel, Adopted brands: Globond/ Acebond/Jinkubond/Equivalent.</p> <p>2. Aluminum Alloy Profile: profile size: 45x60x3mm Stiffner : @400 c/c. Aluminum surface with powder coating treatment, Adopted brands: Wacang/Xingfa/Equivalent.</p> <p>3. Galvanized Steel Plate & Box : Mild Steel(50 Grade), Locally Processed.</p> <p>4. Silicone Sealant: Sealed by Weather Silicon SILANDE/ANTAS/Equivalent.</p> <p>5. SS Screws & Nails: SS 316 Grade, Brand: Sikou/Gola/Equivalent.</p> <p>6. Thermal Insulation: 50 mm thick thermal insulation (48 kg/m³) .</p> <p>7. AP flashing: Adopted brands: Globond/ Acebond/Jinkubond/Equivalent. (All door hardware shall be as per attached door hardware schedule)</p> <p>8. Other Auxiliary Materials: Excellent brands in China.</p> <p>Note: Main Curtain wall frame considered with GCW item.</p> <p>(Contractor shall at his own cost wil prepare shop drawings for approval by the Engineer / Consultant before execution of works)</p>	1,790.00	Sqm		



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
4	<p>SKYLIGHT FIXED GLAZING: Supplying and installation of skylight fixed glazing using following listed approved materials or any other materials is required etc complete as per design, specification and direction of Engineer in Charge / Consultant.</p> <p>1. Glass: 6mm low-e+12A+6+1.52 PVB+6mm Tempered Insulated Laminated Glass, adopted brands: Shanghai Yaohua Pilkington(SYP)/CSG/ XINYI GLASS (XYG) /Equivalent</p> <p>2. Aluminum Alloy Profile: Vertical profile: 88.5x96.5x3mm Horizontal profile: 88.5x96.5x3mm Aluminum surface with powder coating treatment, Adopted brands: Wacang/Xingfa/Equivalent.</p> <p>3. Galvanized Steel : Mild Steel(50 Grade), Locally Processed.</p> <p>4. Silicone Sealant: Silicone Weather Sealant & Silicone Structural Sealant, adopted brands: SILANDE/ ANTAS/ Equivalent. (All door hardware shall be as per attached door hardware schedule)</p> <p>5. AP flashing: Adopted brands: Globond/ Acebond/ Jinkubond/Equivalent.</p> <p>6. SS Nut Bolts, Screws: SS 316 Grade, Brand: Sikou/Gola/Equivalent.</p> <p>7. Other Auxiliary Materials: Excellent brands in China.</p> <p>(Contractor shall at his own cost wil prepare shop drawings for approval by the Engineer / Consultant before execution of works)</p>	230.00	Sqm		



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
5	<p>SMOKE VENT /FIXED GLAZING OPERABLE: Supplying and installation of smoke vent/ fixed glazing operable using following listed approved materials or any other materials is required etc complete as per design, specification and direction of Engineer in Charge / Consultant.</p> <p>1. Glass: 6mm LOW-E+9A+6mm Tempered Insulated Glass., adopted brands: Shanghai Yaohua Pilkington(SYP)/XINYI Glass (XYG)/CSG/Equivalent</p> <p>2. Aluminum Alloy Profile : Outer Frame Size: 50x37x1.4 mm . Shutter Frame: 56x50x1.4 mm. Aluminum surface with powder coating treatment, adopted brands: WACANG/XINGFA/Equivalent.</p> <p>3. Hardware Accessories: Electric chain actuator: 200mm/400N/24 V. Intelligence controller: 24A. Smoke detector, Sill Bracket, flexible bracket. Window opening angle: 30 degree. Stroke: 200 mm.</p> <p>Control method: Electrical. Brand: GTI /Equivalent</p> <p>4. Silicone Sealant: Weather proof silicone sealant, adopted brands: SILANDE/ ANTAS/ Equivalent</p> <p>5. Other Auxiliary Materials: Excellent brands in China. (Contractor shall at his own cost wil prepare shop drawings for approval by the Engineer / Consultant before execution of works)</p>	295.00	Sqm		



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SL No	Description	Quantity	Unit	Quoted rate in Taka (Fig. & words)	Quoted Amount in Taka
6	FIXED GLAZING: Supplying and installation of fixed glazing operable using following listed approved materials or any other materials is required etc complete as per design, specification and direction of Engineer in Charge / Consultant. 1. Glass: 10mm Tempered Clear Glass, adopted, Shanghai Yaohua Pilkington(SYP)/CSG/ XINYI GLASS (XYG) /Equivalent 2. GMS U-channel: 35x30x35x3mm thick, Mild Steel(50 Grade), Locally Processed 3. Silicone Sealant: Weather silicone sealant, Adopted SILANDE/ANTAS/Equivalent. 4. SS Screws: SS 316 Grade, Brand: Sikou/ Gola/ Equivalent. 5. Other Auxiliary Materials: Excellent brands in China (Contractor shall at his own cost wil prepare shop drawings for approval by the Engineer / Consultant before execution of works) Supplying, fitting and fixing best quality of different thick clear glass partition with 44 mm, 44 mm, 1.5 mm aluminium box, protector bit (single), protector bit (double), Silicon including all accessories etc. all complete and as per drawing and direction of the Engineer-in-charge.	70.00	Sqm		
7	10mm thick clear glass (Nasir/PHP)	45	Sqm		
	Glass door 10mm thick tempered glass(Nasir/php)	30	Sqm		
8	Supplying and installations of aluminium solid/composite panel w using following listed approved materials or any other materials is required etc complete as per design, specification and direction of Engineer in Charge / Consultant. 4mm thick . & other spec same as Sl no 03.	1790	Sqm		
				Total for (Bill No: 3) =	



DOOR SCHEDULE

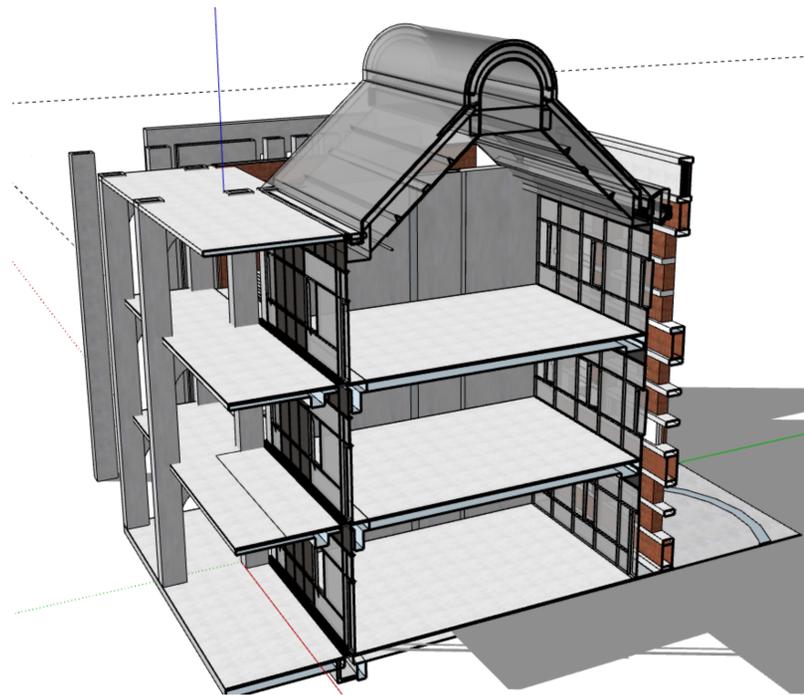
Code	Item	Description	Finish
Hardware			
CL1	Closer	DORMA ITS 96 series concealed overhead installed on all double doors	Satin chrome
CL2	Closer	DORMA TS 93. It's a multi functional cam action door closer	Satin chrome
CL3	Closer	DORMA TS 83 series concealed overhead	Satin chrome
DH1	Door Handle Furniture	HAFELE 903.05.730 or equal. Pull Handle back to back fixing 32mm Φ x 300mm C/C.	Satin chrome
DH2	Door Handle Furniture	HAFELE CAPO 903.99.057 or equal. Lever Handle on Rose & Cylinder Escutcheon.	Satin chrome
DH3	Door Handle Furniture	HAGGER 921P or Eq. C-Shaped pull, 483mm.	Satin chrome
DL1	Door Lock	HAFELE 911 series, Mortise Cylinder Lock.	Satin chrome
DS1	Door Stop	Wall mounted	Satin chrome
DS2	Door Stop	Floor mounted	Satin chrome
DS3	Panic Exit Device	HAFELE Rim push bar exit device 911.52.631/911.52.632	Satin chrome
HN1	Hinges	Offset Pivot hinge at all aluminium Butt Hinges	Satin chrome
HN2	Hinges	Concealed Bearing Butt hinges	Satin chrome
HN3	Hinges	Bearing butt hinges	Satin chrome
Finishes			
GL	Glass	10mm Insulated Tempered glass unless noted otherwise	
LM	Laminate	Refer to finishes schedule for full specification	
PT3	Paint Finish	Refer to finishes schedule for full specification	
PT4	Paint Finish	Refer to finishes schedule for full specification	
TM	Timber	Refer to finishes schedule for full specification	
TV	Timber Veneer	Refer to finishes schedule for full specification	
PC	Powder coated	Heat Paint. Refer to finishes schedule for full specification	
ME4	Door Panel Glass	Refer to finishes schedule for full specification	
PU	Lacquer Finish	Polyurethane based two packs clear wood finishes.	
AN	Anodised Aluminium	Anodised Aluminium	
Door Type			
D1, D1A etc.	Door Type	Refer to drawing noted.	



ASIAN UNIVERSITY
FOR WOMEN

ANNEXURE 1

DRAWING OF CURTAIN WALL FOR ACADEMIC BUILDING FOR ASIAN UNIVERSITY FOR WOMEN, AUW AT PAHARTOLI, CHATTOGRAM, BANGLADESH



DESPATCH ON :

FOR : APPROVAL COMMENT REFERENCE REQUEST TENDER

DATE : 27-05-2024



Asian University
For Women

Chittagong, Bangladesh
www.aufw.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properzi Way
Somerville MA 02143, USA

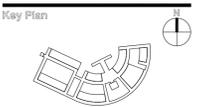
Associate Architects
VITTI-SHS Consortium
2, Shangstad Avenue, 3rd
Level,
Munipurpara, Dhaka 1215,
Bangladesh

ASSOCIATE CONSULTANTS:
STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology ,
BUET,Polash, Dhaka-1000,
Bangladesh
Phone : 8614640 ,
9665650,PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
TECHNO CONSULTANTS
House no:86(1st floor),Road
no-9/A Dhanmondi, Dhaka-1209,
Bangladesh
Phone : 8610116-7.



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ISSUE - A

Phase One, Building 1a
Construction Document Phase.
(DETAIL DRAWINGS)

CD: 100% REVIEW 05/27/2024 FOR CONSTRUCTION

Seal Of Approval :



Drawn By : SUSH

Checked By : IZ

Scale : AS NOTED

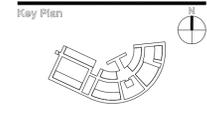
Drawing Title :

DRAWING COVER

A-1001

DRAWING LIST

PAGE	DWG.NO.	DRAWING TITLE	ISSUE							PAGE	DWG.NO.	DRAWING TITLE	ISSUE						
			DAY	11	30	11	05						DAY	11	30	11	05		
			MONTH	09	09	10	12						MONTH	09	09	10	12		
YEAR	23	23	23	23			YEAR	23	23	23	23								
			REVISIONS										REVISIONS						
1	1001	DRAWING COVER	-	A1	B	C			31	7011	VERTICAL DETAILS 11 FOR CURTAIN WALL	-	A1	B	B				
2	1002	DRAWING LIST	-	A1	B	C			32	7012	VERTICAL DETAILS 12 FOR CURTAIN WALL	-	A1	B	B				
3	3001	LEVEL-01 PLAN	-	A1	B	C			33										
4	5001	CURTAIN WALL SCHEDULE 01	-	A1	B	C			34										
5	5001a	CURTAIN WALL SCHEDULE 01a					A		35										
6	5002	CURTAIN WALL SCHEDULE 02	-	A1	B	C			36										
7	5002a	CURTAIN WALL SCHEDULE 02a					A		37										
8	5003	CURTAIN WALL SCHEDULE 03	-	A1	B	C			38										
9	5003a	CURTAIN WALL SCHEDULE 03a					A		39										
10	5004	CURTAIN WALL SCHEDULE 04	-	A1	B	C			40										
11	6001	HORIZONTAL DETAILS 01 FOR CURTAIN WALL	-	A1	B	C			41										
12	6002	HORIZONTAL DETAILS 02 FOR CURTAIN WALL	-	A1	B	C			42										
13	6003	HORIZONTAL DETAILS 03 FOR CURTAIN WALL	-	A1	B	C			43										
14	6004	HORIZONTAL DETAILS 04 FOR CURTAIN WALL	-	A1	B	C			44										
15	6005	HORIZONTAL DETAILS 05 FOR CURTAIN WALL	-	A1	B	B			45										
16	6006	HORIZONTAL DETAILS 06 FOR CURTAIN WALL	-	A1	B	C			46										
17	6007	HORIZONTAL DETAILS 07 FOR CURTAIN WALL	-	A1	B	B			47										
18	6008	HORIZONTAL DETAILS 08 FOR CURTAIN WALL	-	A1	B	C			48										
19	6009	HORIZONTAL DETAILS 08 FOR CURTAIN WALL					A		49										
20	6031	HORIZONTAL DETAILS 31 FOR CURTAIN WALL	-	A1	B	C			50										
21	7001	VERTICAL DETAILS 01 FOR CURTAIN WALL	-	A1	B	C			51										
22	7002	VERTICAL DETAILS 02 FOR CURTAIN WALL	-	A1	B	C			52										
23	7003	VERTICAL DETAILS 03 FOR CURTAIN WALL	-	A1	B	C			53										
24	7004	VERTICAL DETAILS 04 FOR CURTAIN WALL	-	A1	B	C			54										
25	7005	VERTICAL DETAILS 05 FOR CURTAIN WALL	-	A1	B	C			55										
26	7006	VERTICAL DETAILS 06 FOR CURTAIN WALL	-	A1	B	C			56										
27	7007	VERTICAL DETAILS 07 FOR CURTAIN WALL	-	A1	B	C			57										
28	7008	VERTICAL DETAILS 08 FOR CURTAIN WALL	-	A1	B	C			58										
29	7009	VERTICAL DETAILS 09 FOR CURTAIN WALL	-	A1	B	C			59										
30	7010	VERTICAL DETAILS 10 FOR CURTAIN WALL	-	A1	B	C			60										



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ISSUE - A
Phase One, Building 1a
Construction Document Phase.
(DETAIL DRAWINGS)

CD: 100% REVIEW 05/27/2024 FOR CONSTRUCTION

Seal Of Approval :


Drawn By : SUSH
Checked By : IZ
Scale : AS NOTED

Drawing Title :
DRAWING LIST



Asian University
For Women

Chittagong, Bangladesh
www.asian.edu.bd

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properl Way
Somerville MA 02143, USA

Associate Architects
VITTI-SHS Consortium
2, Shangshad Avenue, 3rd
Level,
Munipurpara, Dhaka 1215,
Bangladesh

ASSOCIATE CONSULTANTS:
STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology ,
BUET,Polash, Dhaka-1000,
Bangladesh
Phone : 8614640 ,
9665650.PABX.

MECHANICAL AND PLUMBING :
**AVE ENGINEERS &
CONSULTANT LTD.**
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL :
TECHNO CONSULTANTS
House no:86(1st floor),Road
no-9/A Dhanmondi, Dhaka-1209,
Bangladesh
Phone : 8610116-7.

Key Plan



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ISSUE - A

Phase One, Building 1a
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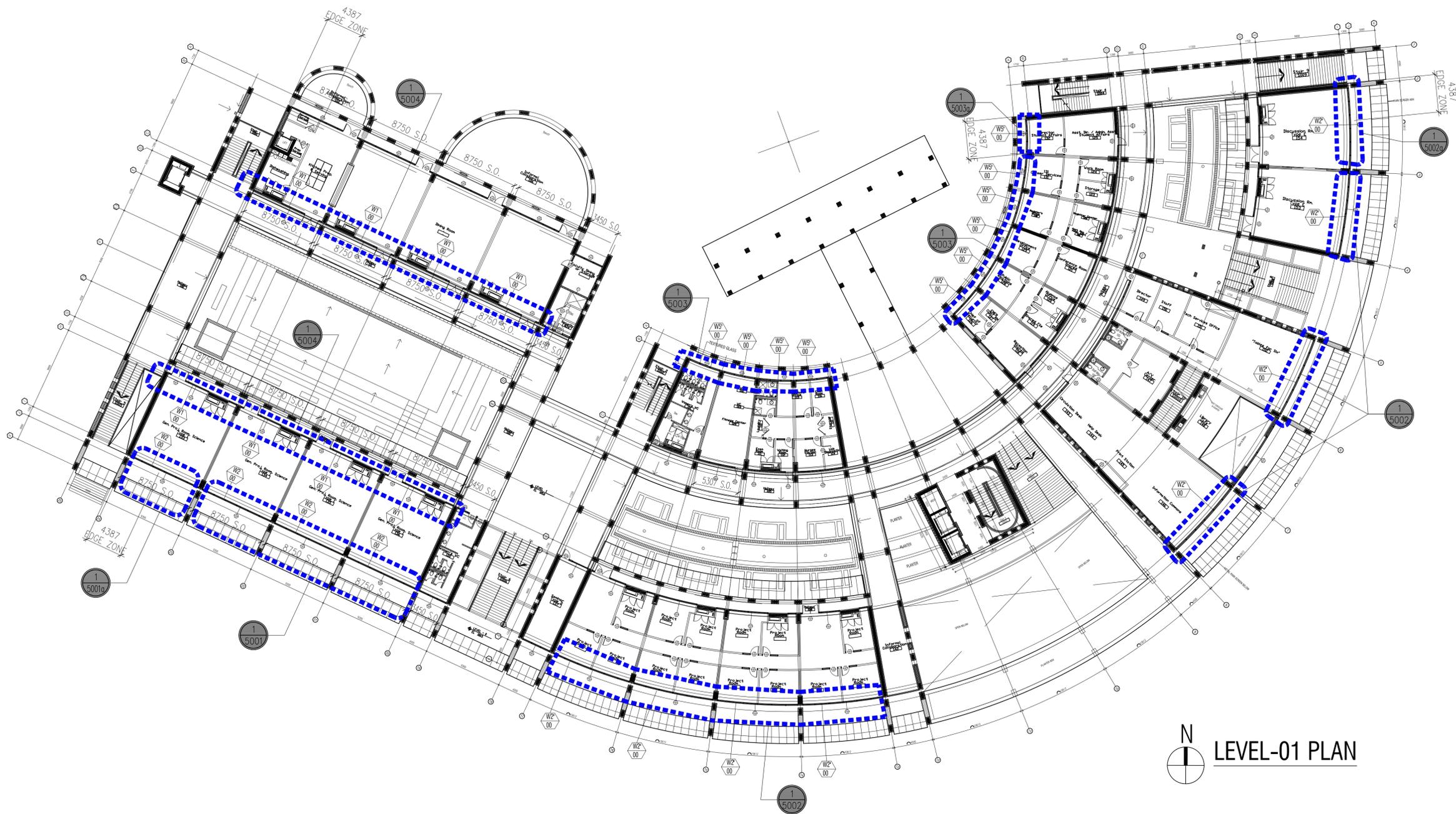


Drawn By : MM
Checked By : NI IZ
Scale : AS NOTED

Drawing Title :

LEVEL-01 PLAN
FOR CURTAIL WALL

A-3001



WIND LOAD

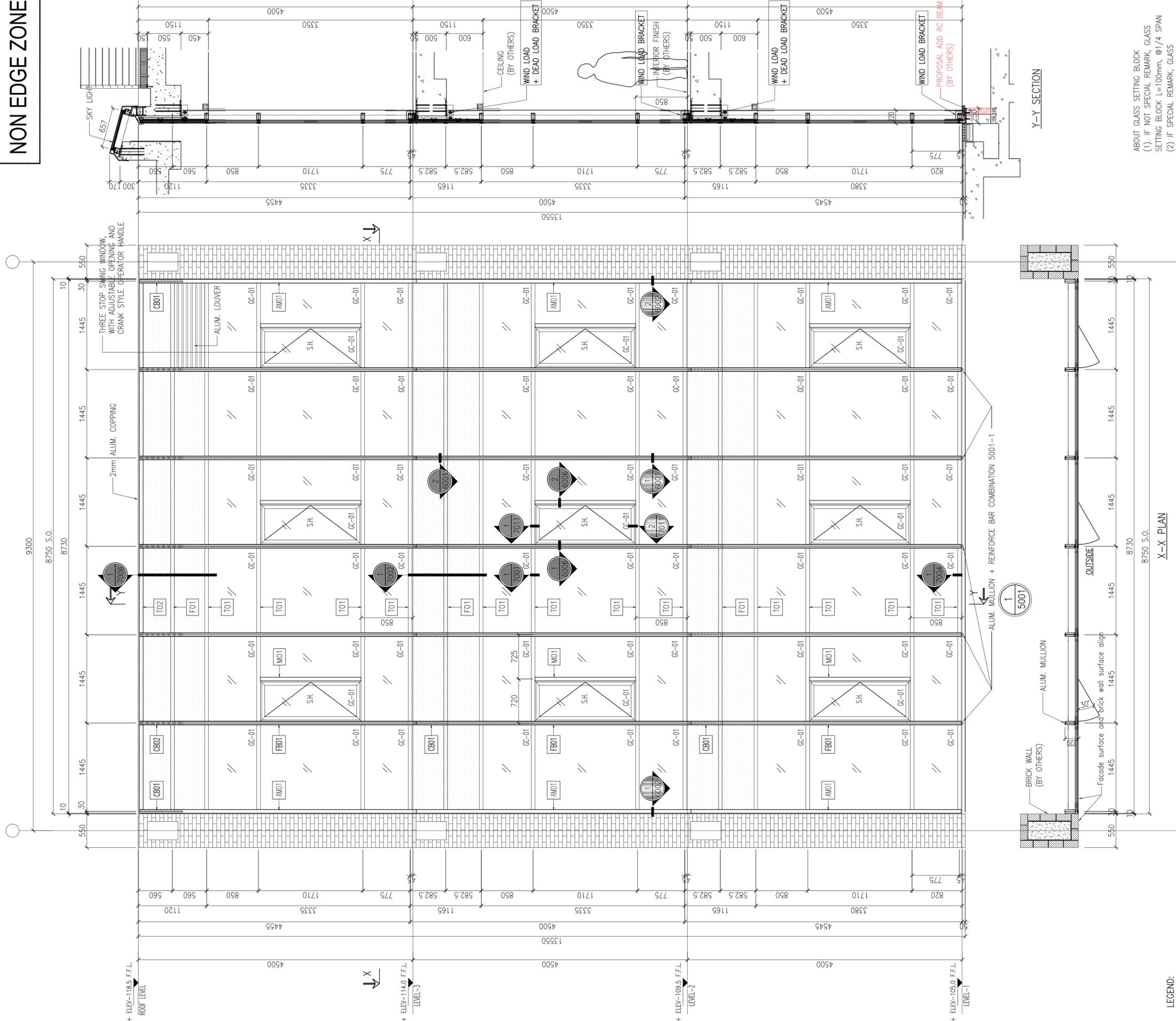
NON EDGE ZONE WIND LOAD =5.136 KPa

EDGE ZONE WIND LOAD =6.336 KPa (PRESSURE)

**DUE TO THE TIGHT BIDDING PREPARATION TIME, ONLY THE NON EDGE ZONE
ARE CONSIDERED IN CURTAIL WALL SCHEDULE 5001~5004.dwg .**

**FOR EDGE ZONE-AREAS WITH HIGH WIND PRESSURE, THE TENDERER IS
REQUESTED TO INCREASE THE PRICE WHEN BIDDING.**

NON EDGE ZONE



ABOUT GLASS SETTING BLOCK
 (1) IF NOT SPECIAL REMARK, GLASS SETTING BLOCK L=100mm, @1/4 SPAN
 (2) IF SPECIAL REMARK, GLASS SETTING BLOCK REFER TO ELEVATION MARK.

X-X PLAN

Y-Y SECTION

FOR REINFORCE MULLION & TRANSOM: #2

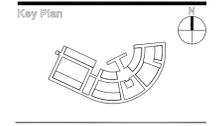
- T01 ALUM. TRANSOM 01 60x120mm
- T02 ALUM. TRANSOM 02 60x52mm (CUT FROM ALUM. TRANSOM 01)
- T03 ALUM. TRANSOM 01 60x120mm + 108x45x6mm THK. G.M.S. FORMED R.H.S. (0235)
- F01 FALSE ALUM. TRANSOM, ONLY ALUM. COVER
- M01 ALUM. MULLION 01 60x120mm (SAME AS ALUM. TRANSOM 01 T01)
- M02 ALUM. MULLION 02 60x52mm (SAME AS ALUM. TRANSOM 01 T03)
- AM01 ALUM. MULLION 60x52mm
- GC-01 ALUM. MULLION + REINFORCED BAR: 156x50x8mm THK. G.M.S. I-SHAPE SECTION (0235, CONT.)
- GC-02 ALUM. MULLION + CANTILEVER REINFORCED BAR: T-SHAPE SECTION BOTH CUT FROM FB01
- FB01 ALUM. MULLION + CANTILEVER REINFORCED BAR: BUILD-UP I-SHAPE SECTION BOTH CUT FROM FB01

LEGEND:

- GC-01 6mm THK. TEMPERED GLASS (LOW-E COATED ON SURFACE #2) + 12(S) THK. TEMPERED CLEAR INSULATED GLASS
- GC-02 6mm THK. TEMPERED CLEAR GLASS
- 3mm THK. ALUM. PLATE
- ALUM. LOUVER

NEW DIE MODEL OF CURTAIN WALL SYSTEM

- M01 ALUM. MULLION 01 60x120mm (SAME AS ALUM. TRANSOM 01 T01)
- M02 ALUM. MULLION 02 60x52mm (SAME AS ALUM. TRANSOM 01 T03)
- AM01 ALUM. MULLION 60x172mm
- GC-01 ALUM. MULLION + REINFORCED BAR: 156x50x8mm THK. G.M.S. I-SHAPE SECTION (0235, CONT.)
- GC-02 ALUM. MULLION + CANTILEVER REINFORCED BAR: T-SHAPE SECTION BOTH CUT FROM FB01
- FB01 ALUM. MULLION + CANTILEVER REINFORCED BAR: BUILD-UP I-SHAPE SECTION BOTH CUT FROM FB01



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ISSUE - A
 Phase One, Building 1a
 Construction Document Phase.
 (DETAIL DRAWINGS)

CD: 100% REVIEW 05/27/2024 FOR CONSTRUCTION

Seal Of Approval:

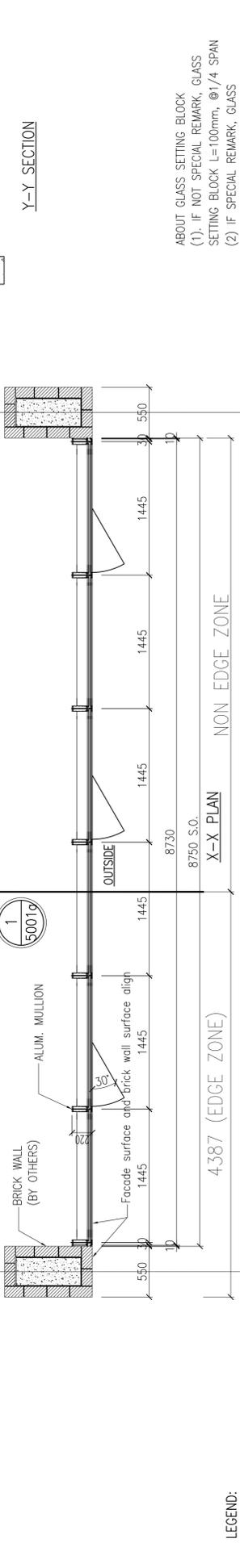
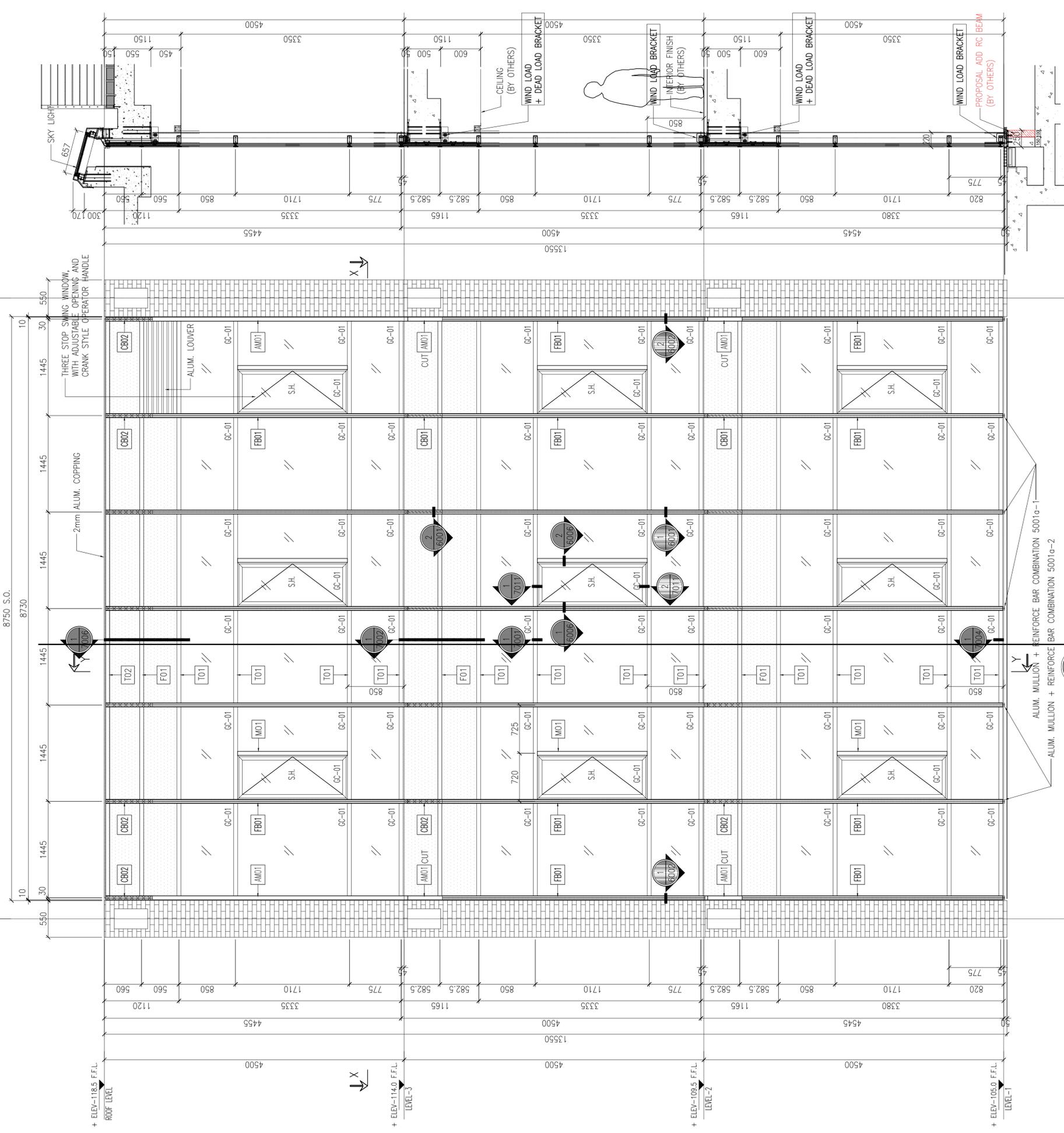
 VITTI SHARATI BRINDO LTD.
 100, RAJSHAHI, P.O. BOX 100

Drawn By: SUSH
 Checked By: IZ
 Scale: AS NOTED

Drawing Title:
CURTAIN WALL SCHEDULE 01

A-5001

EDGE ZONE



ABOUT GLASS SETTING BLOCK
 (1) IF NOT SPECIAL REMARK, GLASS SETTING BLOCK L=100mm, @1/4 SPAN
 (2) IF SPECIAL REMARK, GLASS SETTING BLOCK REFER TO ELEVATION MARK.

LEGEND:

	6mm THK. TEMPERED GLASS (LOW-E COATED ON SURFACE #2) + 12(A5) THK. TEMPERED CLEAR INSULATED GLASS
	6mm THK. TEMPERED CLEAR GLASS
	ALUM. TRANSDOM 01 60x120mm
	ALUM. TRANSDOM 02 60x52mm (CUT FROM ALUM. TRANSDOM 01)
	ALUM. TRANSDOM 01 60x120mm + 108x45x6mm THK. G.M.S. FORMED R.H.S. (0235)
	FALSE ALUM. TRANSDOM, ONLY ALUM. COVER
	ALUM. MULLION 01 60x120mm + REINFORCED BAR: 156x50x8mm THK. G.M.S. I-SHAPE SECTION (0235, CONT.)
	ALUM. MULLION 02 60x52mm + CANTILEVER REINFORCED BAR: T-SHAPE SECTION BOTH CUT FROM [F01]
	ALUM. MULLION 03 60x52mm + CANTILEVER REINFORCED BAR: BUILD-UP I-SHAPE SECTION BOTH CUT FROM [F01]

FOR REINFORCE MULLION & TRANSDOM:
 ALUM. MULLION + REINFORCE BAR COMBINATION 5001a-1
 ALUM. MULLION + REINFORCE BAR COMBINATION 5001a-2

ALUM. TRANSDOM 01 60x120mm
 ALUM. TRANSDOM 02 60x52mm
 ALUM. TRANSDOM 01 60x120mm + 108x45x6mm THK. G.M.S. FORMED R.H.S. (0235)
 FALSE ALUM. TRANSDOM, ONLY ALUM. COVER

ALUM. MULLION 01 60x120mm + REINFORCED BAR: 156x50x8mm THK. G.M.S. I-SHAPE SECTION (0235, CONT.)
 ALUM. MULLION 02 60x52mm + CANTILEVER REINFORCED BAR: T-SHAPE SECTION BOTH CUT FROM [F01]
 ALUM. MULLION 03 60x52mm + CANTILEVER REINFORCED BAR: BUILD-UP I-SHAPE SECTION BOTH CUT FROM [F01]

ALUM. MULLION 01 60x120mm + REINFORCED BAR: 156x50x8mm THK. G.M.S. I-SHAPE SECTION (0235, CONT.)
 ALUM. MULLION 02 60x52mm + CANTILEVER REINFORCED BAR: T-SHAPE SECTION BOTH CUT FROM [F01]
 ALUM. MULLION 03 60x52mm + CANTILEVER REINFORCED BAR: BUILD-UP I-SHAPE SECTION BOTH CUT FROM [F01]

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ISSUE - A
 Phase One, Building 1a
 Construction Document Phase.
 (DETAIL DRAWINGS)

CD: 100% REVIEW 05/27/2024 FOR CONSTRUCTION

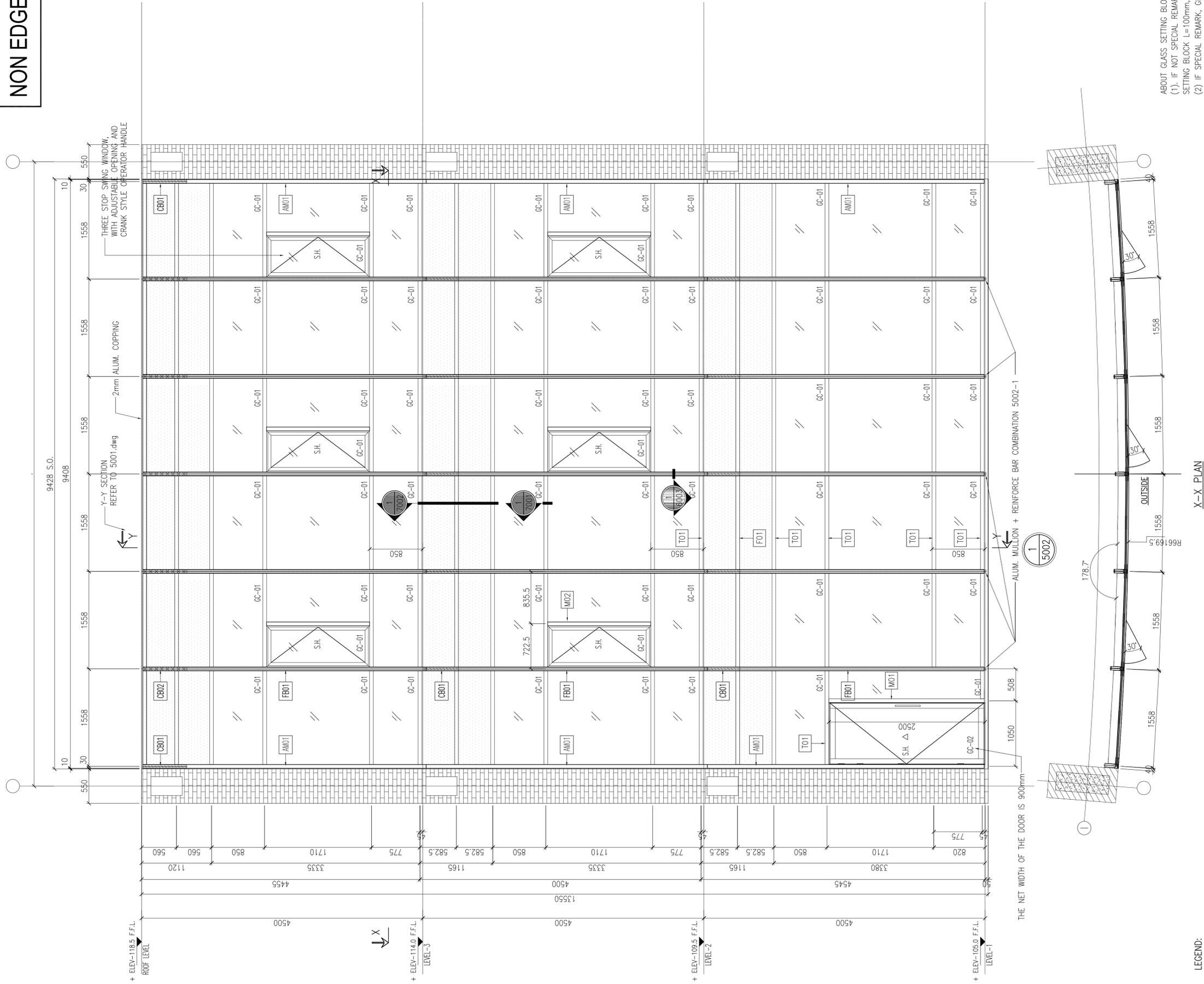
Seal Of Approval :

Drawn By : SUSH
 Checked By : IZ
 Scale : AS NOTED

Drawing Title :
 CURTAIN WALL SCHEDULE 01a

A-5001a

NON EDGE ZONE

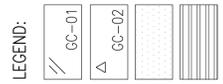


ABOUT GLASS SETTING BLOCK
 (1) IF NOT SPECIAL REMARK, GLASS SETTING BLOCK L=100mm, @1/4 SPAN
 (2) IF SPECIAL REMARK, GLASS SETTING BLOCK REFER TO ELEVATION MARK.

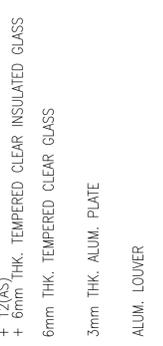
X-X PLAN
 NEW DIE MODEL OF CURTAIN WALL SYSTEM

FOR REINFORCE MULLION & TRANSOM: #2

6mm THK. TEMPERED GLASS (LOW-E COATED ON SURFACE #2)
 + 12(S) THK. TEMPERED CLEAR INSULATED GLASS
 + 6mm THK. TEMPERED CLEAR INSULATED GLASS
 6mm THK. TEMPERED CLEAR GLASS
 3mm THK. ALUM. PLATE
 ALUM. LOUVER



- ALUM. MULLION 60x172mm + REINFORCED BAR: 156x50x8mm THK. G.M.S. I-SHAPE SECTION (Q235, CONT.)
- ALUM. MULLION 60x52mm + CANTILEVER REINFORCED BAR: T-SHAPE SECTION BOTH CUT FROM FB01
- ALUM. MULLION 60x120mm (SAME AS ALUM. TRANSOM 01 T01)
- ALUM. MULLION 60x120mm (SAME AS ALUM. TRANSOM 01 T03)
- ALUM. MULLION 60x120mm (CUT FROM ALUM. TRANSOM 01)
- ALUM. TRANSOM 01 60x120mm + 108x45x6mm THK. G.M.S. FORMED R.H.S. (Q235)
- ALUM. TRANSOM 02 60x120mm
- ALUM. TRANSOM 03 60x120mm
- ALUM. TRANSOM 04 60x120mm
- ALUM. TRANSOM 05 60x120mm
- ALUM. TRANSOM 06 60x120mm
- ALUM. TRANSOM 07 60x120mm
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- ALUM. TRANSOM 10 60x120mm
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- ALUM. TRANSOM 93 60x120mm
- ALUM. TRANSOM 94 60x120mm
- ALUM. TRANSOM 95 60x120mm
- ALUM. TRANSOM 96 60x120mm
- ALUM. TRANSOM 97 60x120mm
- ALUM. TRANSOM 98 60x120mm
- ALUM. TRANSOM 99 60x120mm
- ALUM. TRANSOM 100 60x120mm



THE NET WIDTH OF THE DOOR IS 900mm



Client
 Asian University for Women
 Support Foundation
 1100 Massachusetts Ave.
 Suite 300
 Cambridge MA 02138, USA

Architect
Moshe Safdie and Associates
 100 Properzi Way
 Somerville MA 02143, USA

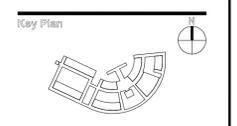
Associate Architects
VITI-SHS Consortium
 2, Shangstad Avenue, 3rd Level,
 Munipuripara, Dhaka 1215,
 Bangladesh

ASSOCIATE CONSULTANTS:
 STRUCTURAL & CIVIL :
 DESIGN PLANNING AND MANAGEMENT CONSULTANT LTD. (DPM)
 House no:4/1(2nd floor), Road no-4
 Dhanmondi,Dhaka-1205, Bangladesh
 Phone : 8610116-7.

BRTC
 Bangladesh University of Engineering & Technology,
 BUET,Palashi, Dhaka-1000, Bangladesh
 Phone : 8614640, 9665650.PABX.

MECHANICAL AND PLUMBING :
 AVE ENGINEERS & CONSULTANT LTD.
 House no:5/3(1st floor), Block-A
 Lalmitia,Dhaka-1205, Bangladesh
 Phone : 8610116-7.

ELECTRICAL:
 TECHNO CONSULTANTS
 House no:86(1st floor),Road no-9/A
 Dhanmondi, Dhaka-1209, Bangladesh
 Phone : 8610116-7.



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ISSUE - A
 Phase One, Building 1a
 Construction Document Phase.
 (DETAIL DRAWINGS)

CD: 100% REVIEW 05/27/2024 FOR CONSTRUCTION

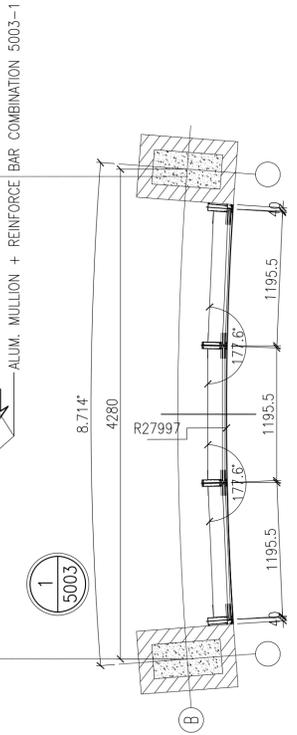
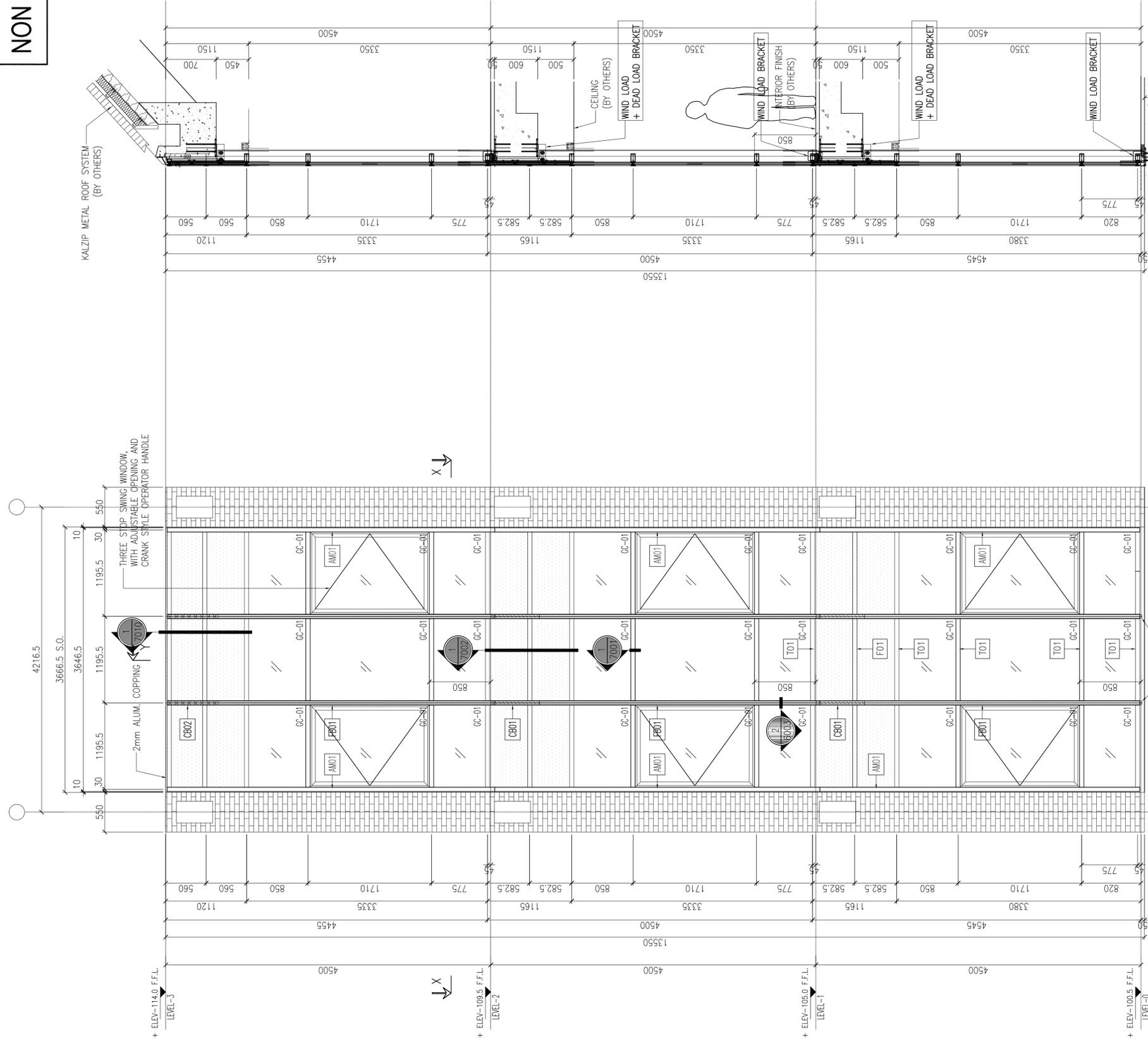
Seal Of Approval :

Drawn By : SUSH
 Checked By : IZ
 Scale : AS NOTED

Drawing Title :
 CURTAIN WALL SCHEDULE 02

A-5002

NON EDGE ZONE



Y-Y SECTION

ABOUT GLASS SETTING BLOCK
 (1) IF NOT SPECIAL REMARK, GLASS SETTING BLOCK L=100mm, @1/4 SPAN
 (2) IF SPECIAL REMARK, GLASS SETTING BLOCK REFER TO ELEVATION MARK.

FOR REINFORCE MULLION & TRANSOM:
 NEW DIE MODEL OF CURTAIN WALL SYSTEM

- ALUM. MULLION 01 60x120mm
- ALUM. TRANSOM 01 60x120mm
- ALUM. MULLION 02 60x52mm
- ALUM. TRANSOM 02 60x52mm
- ALUM. MULLION 03 60x120mm
- ALUM. TRANSOM 03 60x120mm
- ALUM. MULLION 04 60x172mm
- ALUM. TRANSOM 04 60x172mm

- LEGEND:
- GC-01 6mm THK. TEMPERED GLASS (LOW-E COATED ON SURFACE #2) + 12(A5) THK. TEMPERED CLEAR INSULATED GLASS
 - GC-02 6mm THK. TEMPERED CLEAR GLASS
 - GC-03 3mm THK. ALUM. PLATE
 - GC-04 ALUM. LOUVER

Client
 Asian University for Women
 Support Foundation
 1100 Massachusetts Ave.
 Suite 300
 Cambridge MA 02138, USA

Architect
Moshe Safdie and Associates
 100 Properzi Way
 Somerville MA 02143, USA

Associate Architects
VITTI-SHS Consortium
 2, Shangstad Avenue, 3rd Level,
 Munipuripara, Dhaka 1215, Bangladesh

ASSOCIATE CONSULTANTS:
 STRUCTURAL & CIVIL :
 DESIGN PLANNING AND MANAGEMENT CONSULTANT LTD. (DPM)
 House no:4/1(2nd floor), Road no-4
 Dhanmondi,Dhaka-1205, Bangladesh
 Phone : 8610116-7.

BRTC
 Bangladesh University of Engineering & Technology,
 BUET, Palashi, Dhaka-1000, Bangladesh
 Phone : 8614640 , 9665650.PABX.

MECHANICAL AND PLUMBING :
 AVE ENGINEERS & CONSULTANT LTD.
 House no:5/3(1st floor), Block-A
 Lalmitia,Dhaka-1205, Bangladesh
 Phone : 8610116-7.

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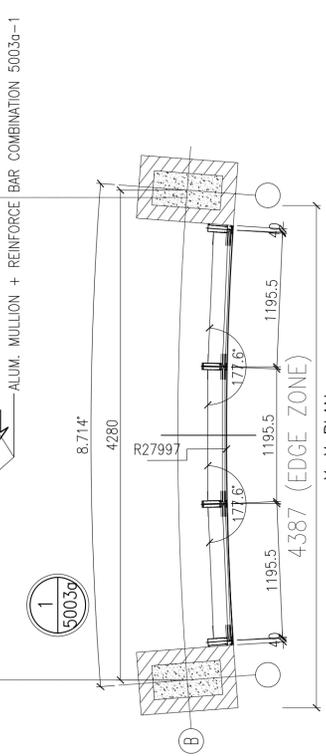
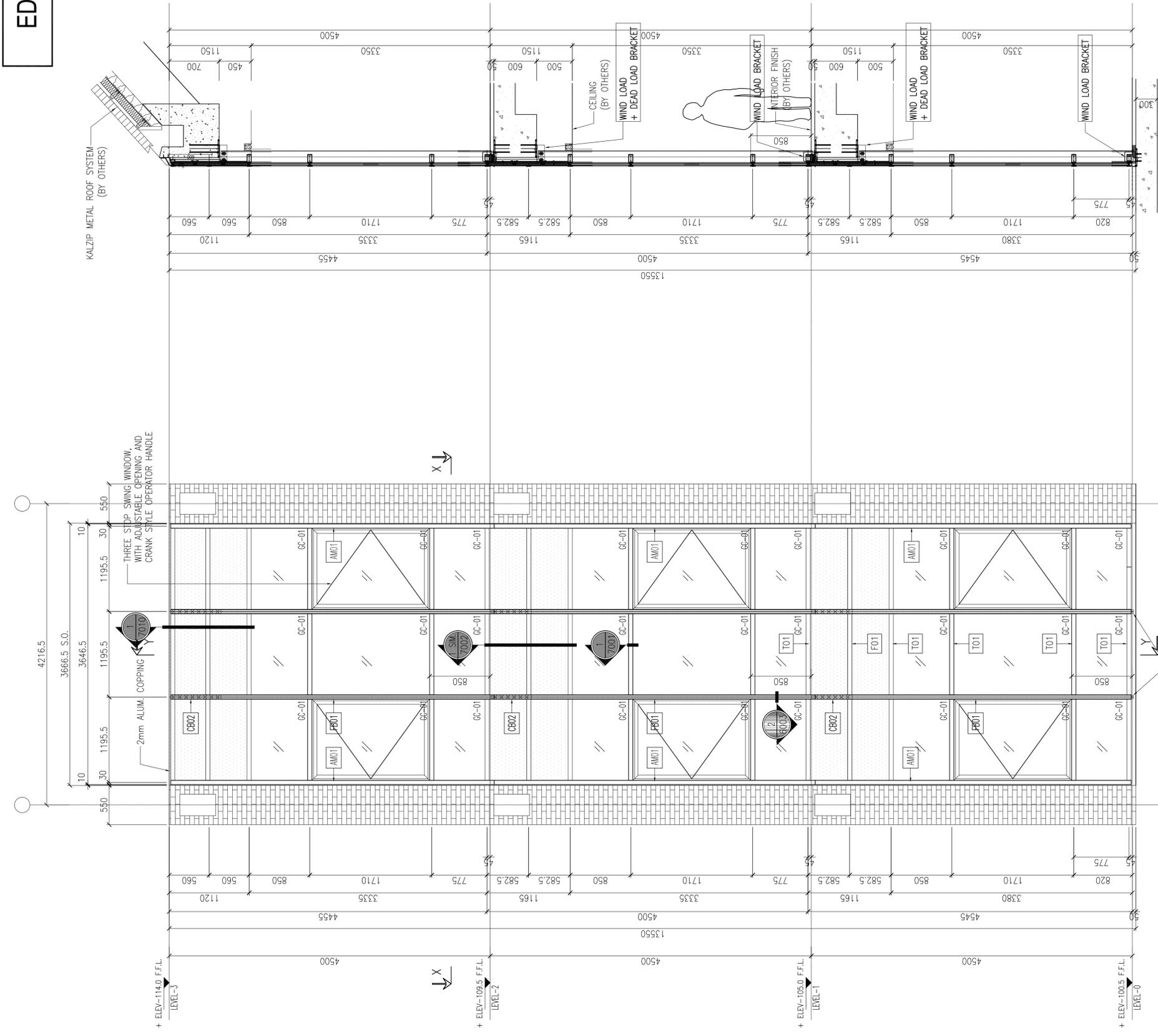
Seal Of Approval:

Drawn By: SUSH
 Checked By: IZ
 Scale: AS NOTED

Drawing Title :
 CURTAIN WALL SCHEDULE 03

A-5003

EDGE ZONE



LEGEND:

- GC-01: 6mm THK. TEMPERED GLASS (LOW-E COATED ON SURFACE #2) + 12(GS) THK. TEMPERED CLEAR INSULATED GLASS
- GC-02: 6mm THK. TEMPERED CLEAR GLASS
- 3mm THK. ALUM. PLATE
- ALUM. LOUVER

FOR REINFORCE MULLION & TRANSOM (#2)

- T01: ALUM. TRANSOM 01 60x120mm
- T02: ALUM. TRANSOM 02 60x52mm (CUT FROM ALUM. TRANSOM 01)
- T03: ALUM. TRANSOM 01 60x120mm + 108x45x6mm THK. G.M.S. FORMED R.H.S. (0235)
- F01: FALSE ALUM. TRANSOM, ONLY ALUM. COVER

NEW DIE MODEL OF CURTAIN WALL SYSTEM

- M01: ALUM. MULLION 01 60x120mm (SAME AS ALUM. TRANSOM 01 T01)
- M02: ALUM. MULLION 02 60x52mm (SAME AS ALUM. TRANSOM 01 T03)
- M01: ALUM. MULLION 60x172mm

FOR REINFORCE MULLION & TRANSOM (#2)

- F01: ALUM. MULLION + REINFORCED BAR: 156x50x8x8mm THK. G.M.S. I-SHAPE SECTION (0235, CONT.)
- C01: ALUM. MULLION 60x52mm + CANTILEVER REINFORCED BAR: T-SHAPE SECTION BOTH CUT FROM F01
- C02: ALUM. MULLION 60x52mm + CANTILEVER REINFORCED BAR: BUILD-UP I-SHAPE SECTION BOTH CUT FROM F01

ABOUT GLASS SETTING BLOCK

(1) IF NOT SPECIAL REMARK, GLASS SETTING BLOCK L=100mm, @1/4 SPAN

(2) IF SPECIAL REMARK, GLASS SETTING BLOCK REFER TO ELEVATION MARK.

Client
 Asian University for Women
 Support Foundation
 1100 Massachusetts Ave.
 Suite 300
 Cambridge MA 02138, USA

Architect
Moshe Safdie and Associates
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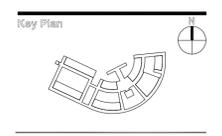
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 2, Shangstad Avenue, 3rd Level,
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STRUCTURAL & CIVIL :
 DESIGN PLANNING AND MANAGEMENT CONSULTANT LTD. (DPM)
 House no:4/1(2nd floor), Road no-4
 Dhanmondi,Dhaka-1205, Bangladesh
 Phone : 8610116-7.

BRTC
 Bangladesh University of Engineering & Technology,
 BUET, Palashi, Dhaka-1000, Bangladesh
 Phone : 8614640 , 9665650.PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS & CONSULTANT LTD.
 House no:5/3(1st floor), Block-A
 Lalmaia,Dhaka-1205, Bangladesh
 Phone : 8610116-7.

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TECHNO CONSULTANTS
 House no:86(1st floor),Road no-9/A
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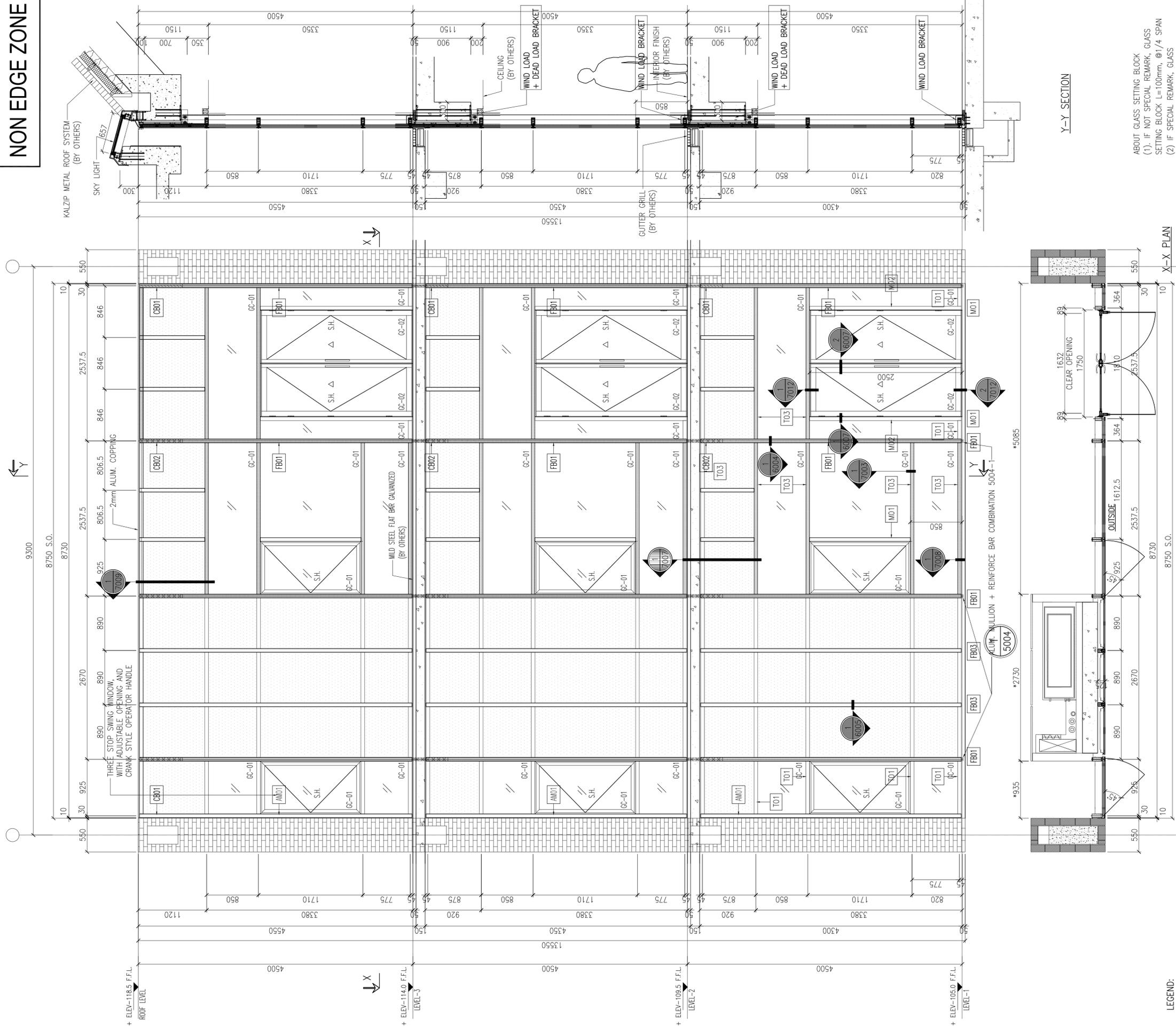
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Drawing Title :
 CURTAIN WALL SCHEDULE 03a

A-5003a

NON EDGE ZONE



Y-Y SECTION

X-X PLAN

ABOUT GLASS SETTING BLOCK
(1) IF NOT SPECIAL REMARK, GLASS SETTING BLOCK L=100mm, @1/4 SPAN
(2) IF SPECIAL REMARK, GLASS SETTING BLOCK REFER TO ELEVATION MARK.

LEGEND:

- GC-01 6mm THK TEMPERED GLASS (LOW-E COATED ON SURFACE #2) + 12(A5) THK TEMPERED CLEAR INSULATED GLASS
- GC-02 6mm THK TEMPERED CLEAR GLASS
- T01 ALUM. TRANSOM 01 60x120mm
- T02 ALUM. TRANSOM 02 60x52mm (CUT FROM ALUM. TRANSOM 01)
- T03 ALUM. TRANSOM 03 60x120mm (SAME AS ALUM. TRANSOM 01)
- F01 FALSE ALUM. TRANSOM, ONLY ALUM. COVER
- FB01 ALUM. MULLION 60x172mm
- FB02 ALUM. MULLION (SAME AS ALUM. TRANSOM 01)
- FB03 ALUM. MULLION (SAME AS ALUM. TRANSOM 01)
- CB01 ALUM. MULLION 60x172mm
- CB02 ALUM. MULLION (SAME AS ALUM. TRANSOM 01)
- AM01 ALUM. TRANSOM 01 60x120mm
- AM02 ALUM. TRANSOM 02 60x52mm (CUT FROM ALUM. TRANSOM 01)

FOR REINFORCE MULLION & TRANSOM:

- M01 ALUM. MULLION 01 60x120mm (SAME AS ALUM. TRANSOM 01)
- M02 ALUM. MULLION 02 60x120mm (SAME AS ALUM. TRANSOM 01)
- M03 ALUM. MULLION 03 60x120mm (SAME AS ALUM. TRANSOM 01)
- AM01 ALUM. MULLION 60x172mm

NEW DIE MODEL OF CURTAIN WALL SYSTEM

- ALUM. MULLION 60x172mm + REINFORCED BAR: 156x50x8x8mm THK. G.M.S. I-SHAPE SECTION (0235, CONT.)
- ALUM. MULLION 60x52mm + CANTILEVER REINFORCED BAR: T-SHAPE SECTION BOTH CUT FROM FB01
- ALUM. MULLION 60x52mm + CANTILEVER REINFORCED BAR: BUILD-UP I-SHAPE SECTION BOTH CUT FROM FB01

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Checked By : IE
Scale : AS NOTED

Drawing Title :
CURTAIN WALL SCHEDULE 04

A-5004



Asian University
For Women

Chittagong, Bangladesh
www.asian.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properz Way
Somerville MA 02143, USA

Associate Architects
VITI-SHS Consortium
2, Shangstad Avenue, 3rd
Level,
Munipurpara, Dhaka 1215,
Bangladesh

ASSOCIATE CONSULTANTS:
STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology,
BUET, Pabashi, Dhaka-1000,
Bangladesh
Phone : 8614640,
9665650.PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
TECHNO CONSULTANTS
House no:86(1st floor),Road
no-9/A Dhanmondi, Dhaka-1209,
Bangladesh
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Key Plan



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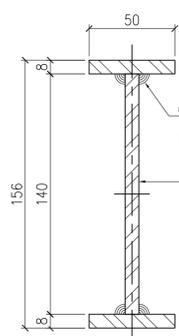
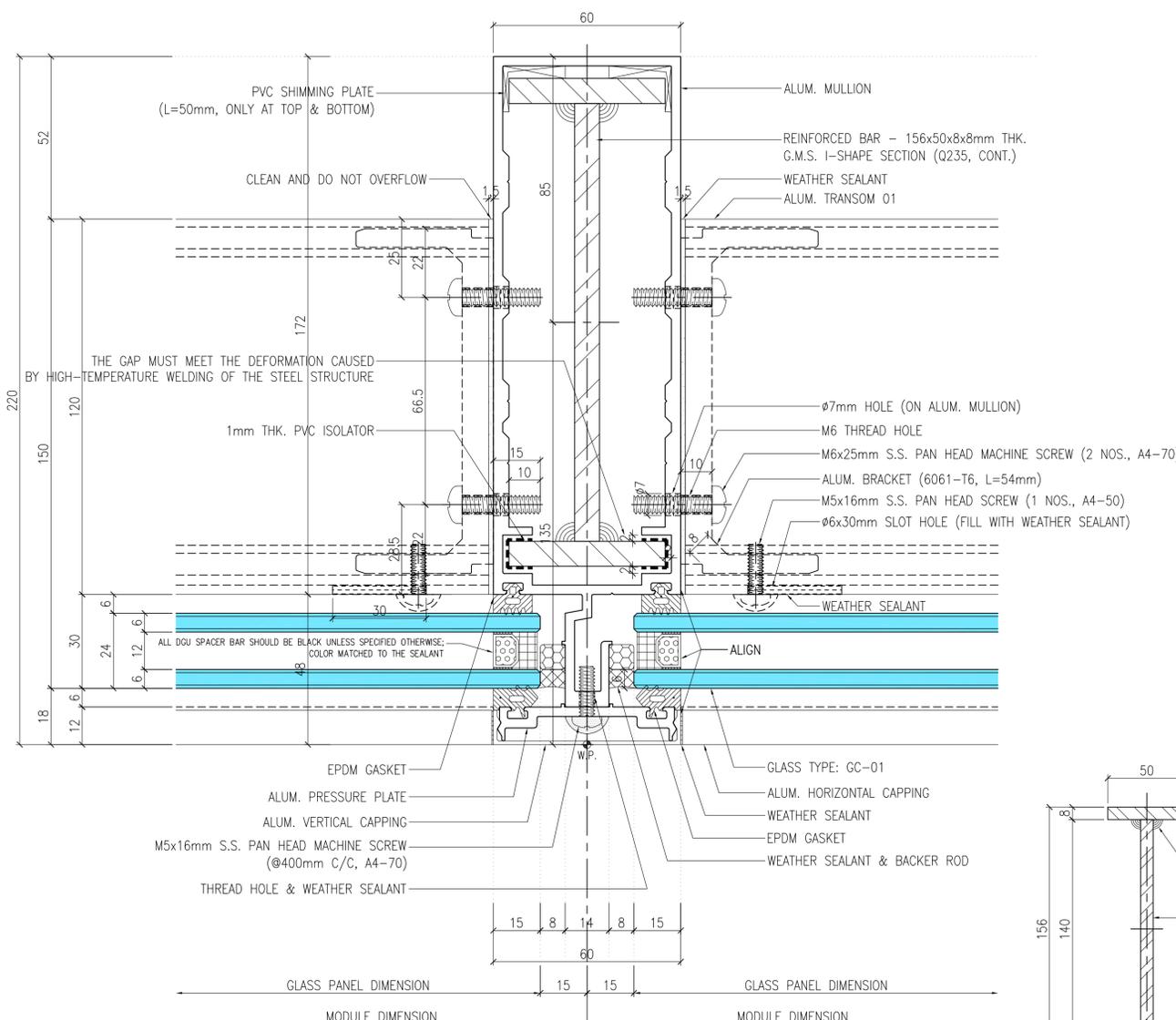
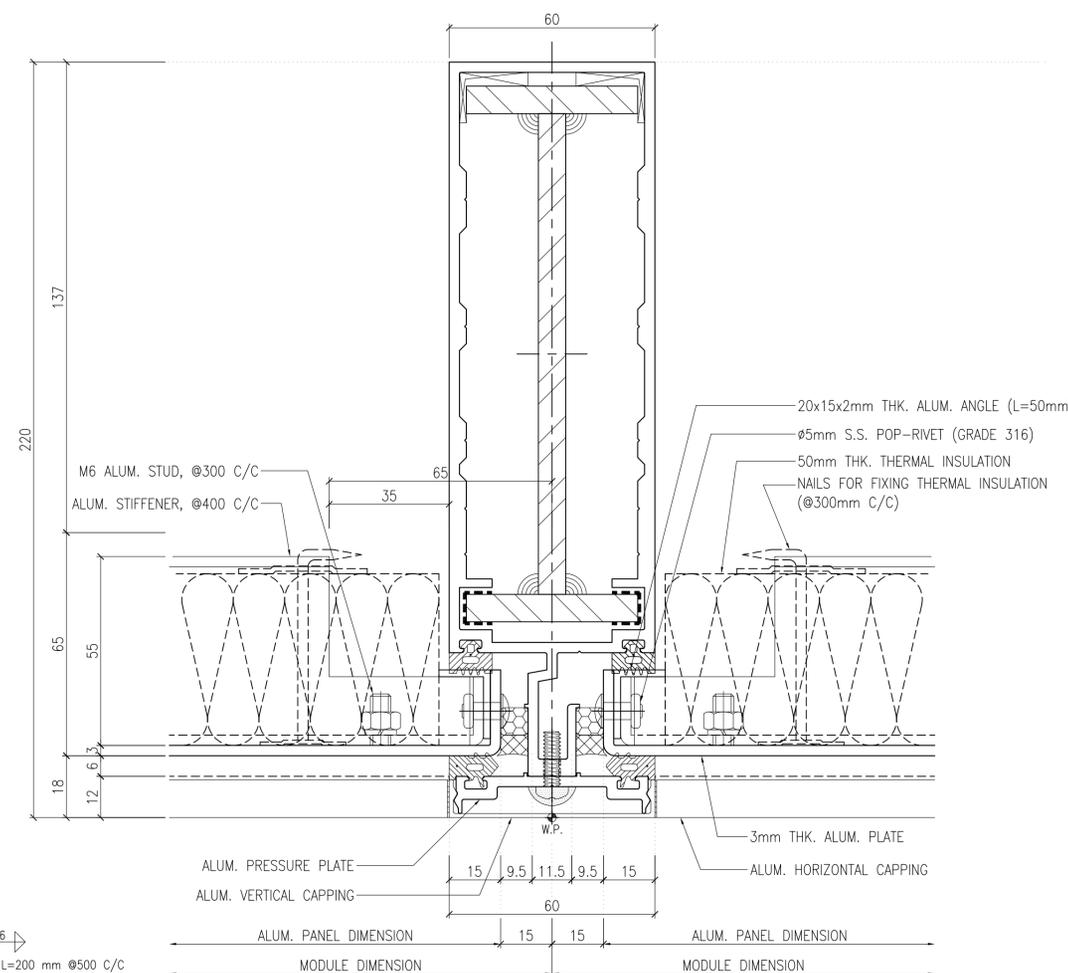


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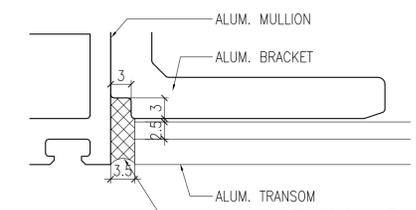
Drawing Title :

HORIZONTAL DETAILS 01
FOR CURTAIN WALL

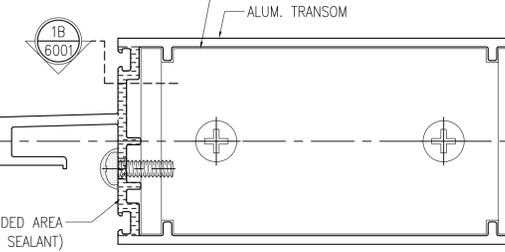
A-6001



5 DETAILS FOR REINFORCED BAR
SCALE: 1:2



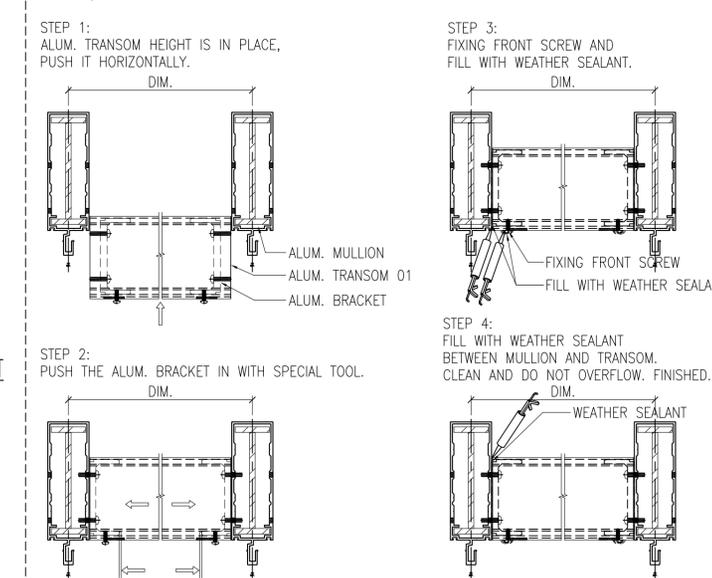
1B BLOWUP DETAIL FOR FILL WITH WEATHER SEALANT
AT THE END OF TRANSOM
SCALE: 1:1



1A SECTION FOR NOTCH DETAIL FOR TRANSOM
REMARK: REFER TO DRAWING '6001.dwg'

2 HORIZONTAL DETAILS FOR CURTAIN WALL
ALUM. PANEL & MIDDLE MULLION POSITION
REMARK: REFER TO DRAWING '5001.dwg'

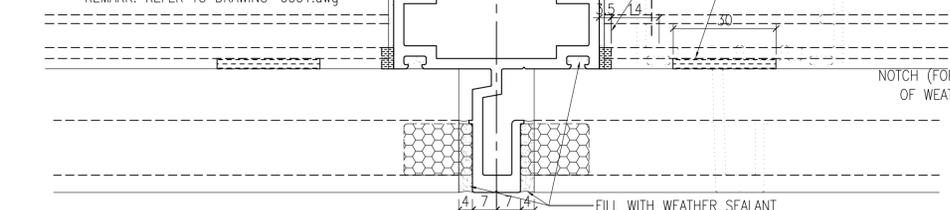
OVERALL DESIGN IDEA: ALUM. TRANSOM + ALUM. BRACKET + SCREWS HAVE BEEN PROCESSED AND ASSEMBLED IN THE FACTORY, THERE IS NO NEED TO INSTALL SCREWS ON SITE. ON SITE, ONLY NEED TO INSTALL THE ALUM. TRANSOM IN PLACE AND SEAL IT WITH WEATHER SEALANT.



4 INSTALLATION INSTRUCTIONS FOR TRANSOM
SCALE: 1:5

REMARK:
1. GLASS TYPE: GC-01
6mm THK. TEMPERED GLASS (LOW-E COATED ON SURFACE #2)
+ 12(AS)
+ 6mm THK. TEMPERED CLEAR INSULATED GLASS
2. GLASS TYPE: GC-02
6mm THK. TEMPERED CLEAR GLASS

3 DETAIL FOR MULLION AND TRANSOM
CROSS POSITION
REMARK: REFER TO DRAWING '6001.dwg'





Asian University For Women

Chittagong, Bangladesh
www.asian.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
Moshe Safdie and Associates
100 Properzi Way
Somerville MA 02143, USA

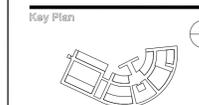
Associate Architects
VITTI-SHS Consortium
2, Shangshad Avenue, 3rd Level,
Munipuripara, Dhaka 1215, Bangladesh

ASSOCIATE CONSULTANTS:
STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology,
BUET, Pabashi, Dhaka-1000,
Bangladesh
Phone : 8614640,
9665650,PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL :
TECHNO CONSULTANTS
House no:86(1st floor),Road
no-9/A Dhanmondi, Dhaka-1209,
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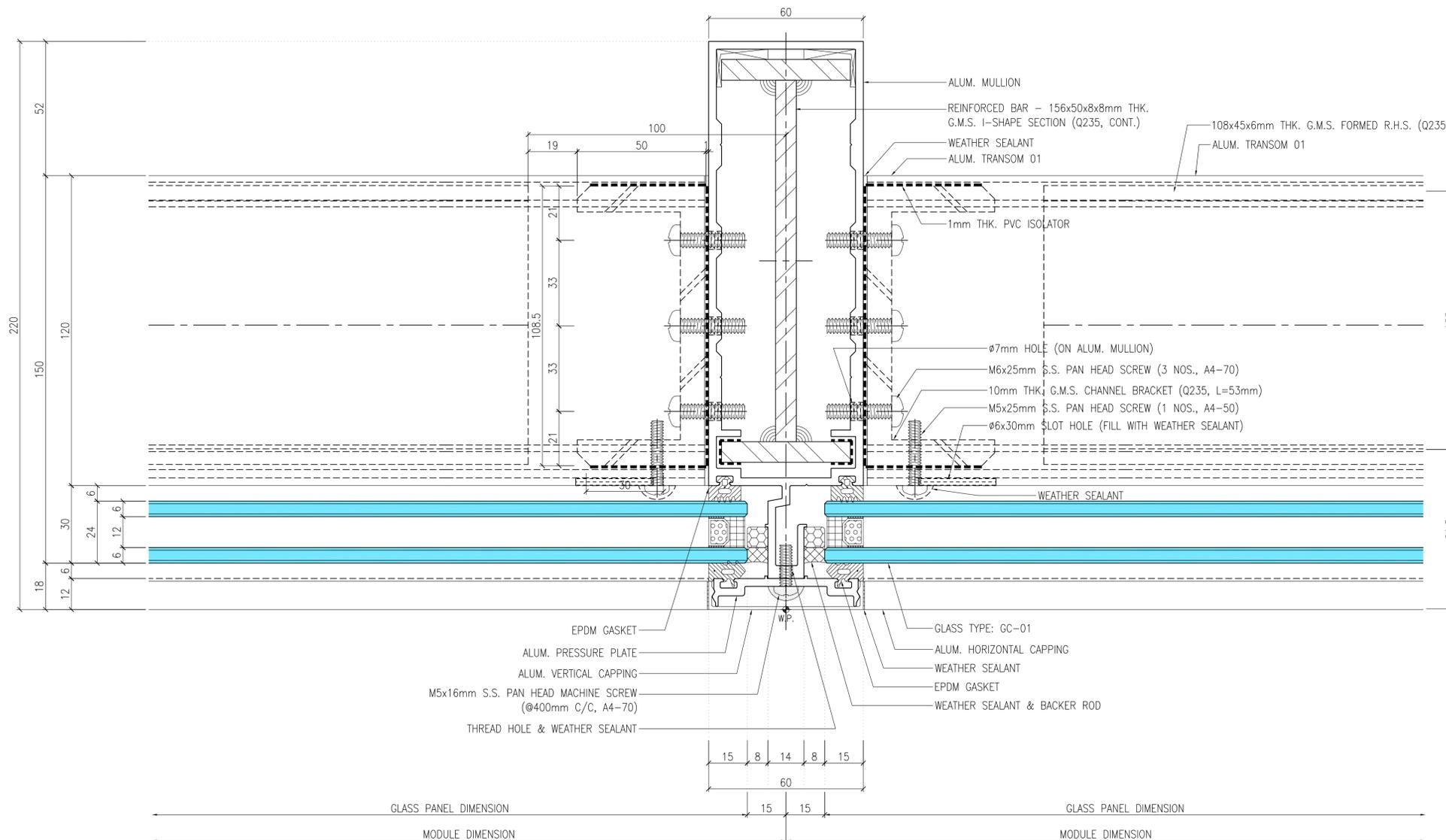


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Checked By : IZ
Scale : AS NOTED

Drawing Title :

HORIZONTAL DETAILS 04
FOR CURTAIN WALL

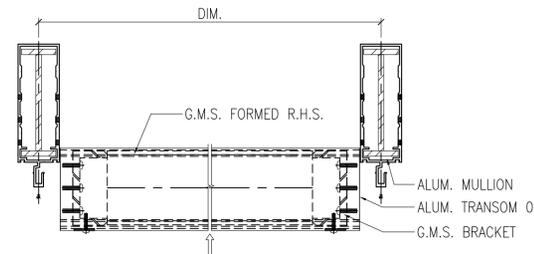
A-6004



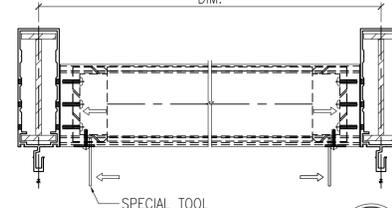
1
6004 HORIZONTAL DETAILS FOR CURTAIN WALL
FIXING GLASS & MIDDLE MULLION POSITION
SPAN=2580mm
REMARK: REFER TO DRAWING '5004.dwg'

OVERALL DESIGN IDEA: ALUM. TRANSOM + G.M.S. BRACKET + G.M.S. FORMED R.H.S. + SCREWS HAVE BEEN PROCESSED AND ASSEMBLED IN THE FACTORY, THERE IS NO NEED TO INSTALL SCREWS ON SITE. ON SITE, ONLY NEED TO INSTALL THE ALUM. TRANSOM IN PLACE AND SEAL IT WITH WEATHER SEALANT.

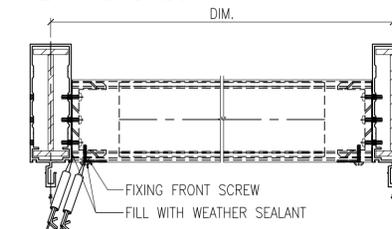
STEP 1:
ALUM. TRANSOM HEIGHT IS IN PLACE,
PUSH IT HORIZONTALLY.



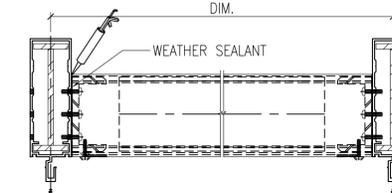
STEP 2:
PUSH THE G.M.S. BRACKET IN WITH SPECIAL TOOL.



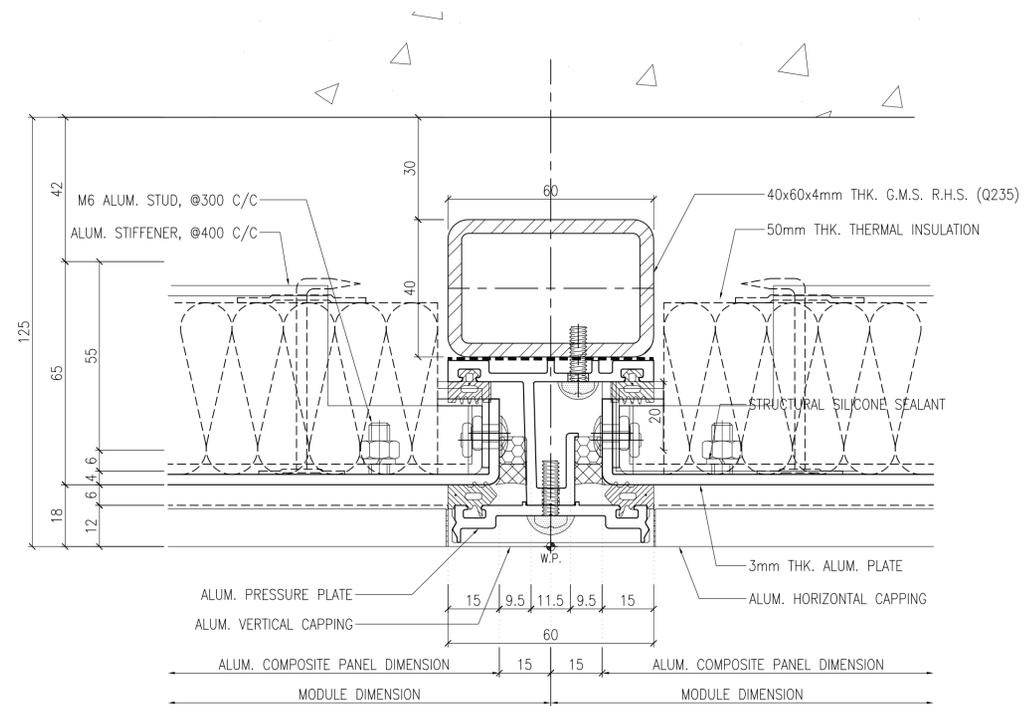
STEP 3:
FIXING FRONT SCREW AND
FILL WITH WEATHER SEALANT.



STEP 4:
FILL WITH WEATHER SEALANT
BETWEEN MULLION AND TRANSOM.
CLEAN AND DO NOT OVERFLOW. FINISHED.



2
6004 INSTALLATION INSTRUCTIONS FOR
TRANSOM
SCALE: 1:5



1
6005 HORIZONTAL DETAILS FOR CURTAIN WALL
FIXING GLASS & MIDDLE MULLION POSITION
REMARK: REFER TO DRAWING '5004.dwg'



Asian University
For Women

Chittagong, Bangladesh
www.asianuniversity.edu.bd
Phase One, Building 1a

Client
Asian University for Women
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Cambridge MA 02138, USA

Architect
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Somerville MA 02143, USA

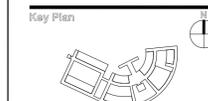
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VITTI-SHS Consortium
2, Shangshad Avenue, 3rd
Level,
Munipurpara, Dhaka 1215,
Bangladesh

ASSOCIATE CONSULTANTS:
STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
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MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL :
TECHNO CONSULTANTS
House no:86(1st floor),Road
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Checked By : IZ

Scale : AS NOTED

Drawing Title :

HORIZONTAL DETAILS 05
FOR CURTAIN WALL

A-6005



Asian University
For Women

Chittagong, Bangladesh
www.asian.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properzi Way
Somerville MA 02143, USA

Associate Architects
VITTI-SHS Consortium
2, Shangshad Avenue, 3rd
Level,
Munipuripara, Dhaka 1215,
Bangladesh

ASSOCIATE CONSULTANTS:
STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology,
BUET,Polash, Dhaka-1000,
Bangladesh
Phone : 8614640,
9665650,PABX.

MECHANICAL AND PLUMBING :
**AVE ENGINEERS &
CONSULTANT LTD.**
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL :
TECHNO CONSULTANTS
House no:86(1st floor),Road
no-9/A Dhanmondi, Dhaka-1209,
Bangladesh
Phone : 8610116-7.

Key Plan



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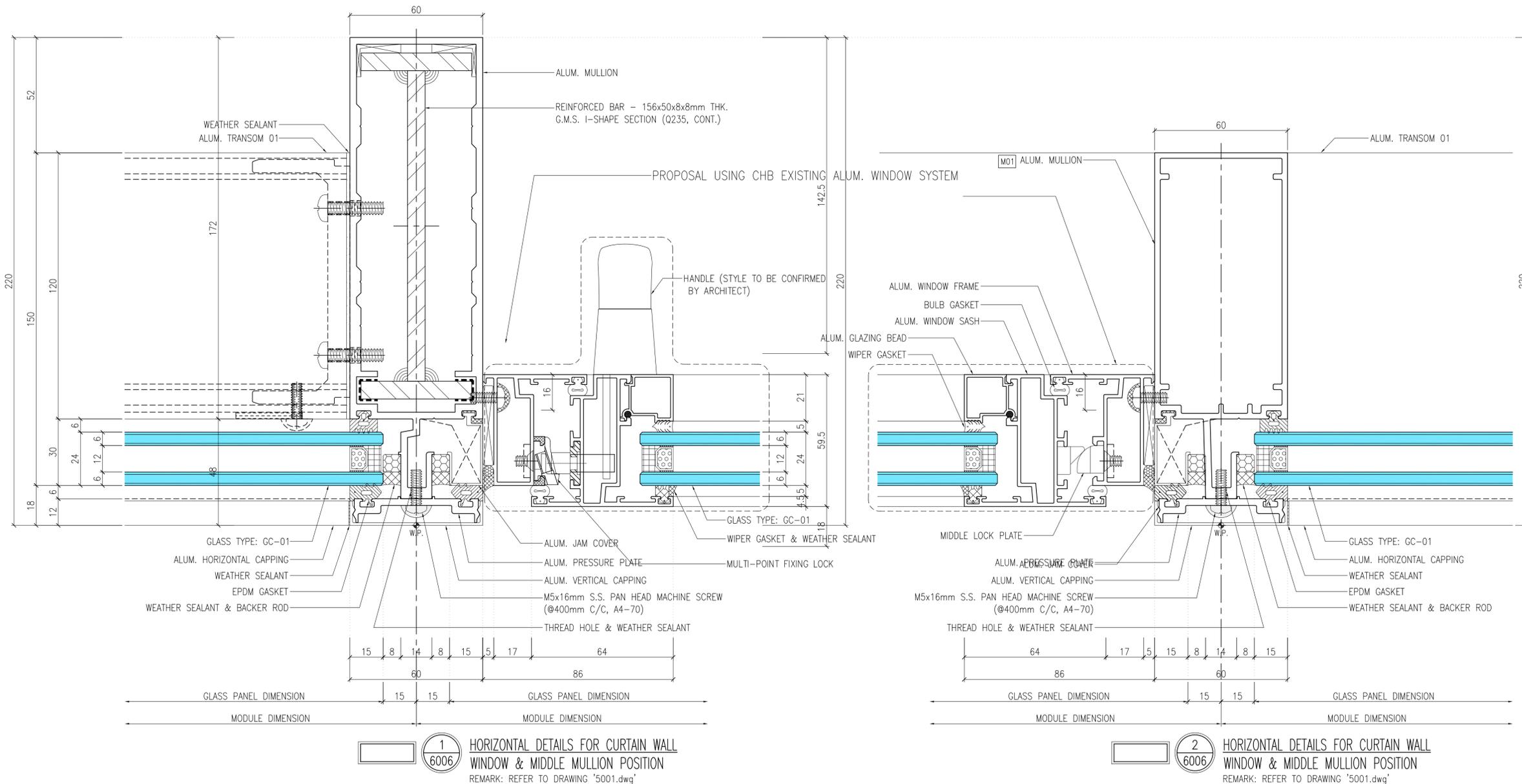


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HORIZONTAL DETAILS 06
FOR CURTAIN WALL

A-6006





Asian University For Women

Chittagong, Bangladesh
www.asu.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
Moshe Safdie and Associates
100 Propperly Way
Somerville MA 02143, USA

Associate Architects
VITTI-SHS Consortium
2, Shangshad Avenue, 3rd Level,
Munipurpara, Dhaka 1215, Bangladesh

ASSOCIATE CONSULTANTS:
STRUCTURAL & CIVIL :
DESIGN PLANNING AND MANAGEMENT CONSULTANT LTD. (DPM)
House no:4/1(2nd floor), Road no-4
Dhanmondi,Dhaka-1205, Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of Engineering & Technology,
BUET-Palashi, Dhaka-1000, Bangladesh
Phone : 8614640, 9665650,PABX.

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House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205, Bangladesh
Phone : 8610116-7.

ELECTRICAL:
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House no:86(1st floor),Road no-9/A
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Phone : 8610116-7.

Key Plan



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ISSUE - A

Phase One, Building 1a
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(DETAIL DRAWINGS)

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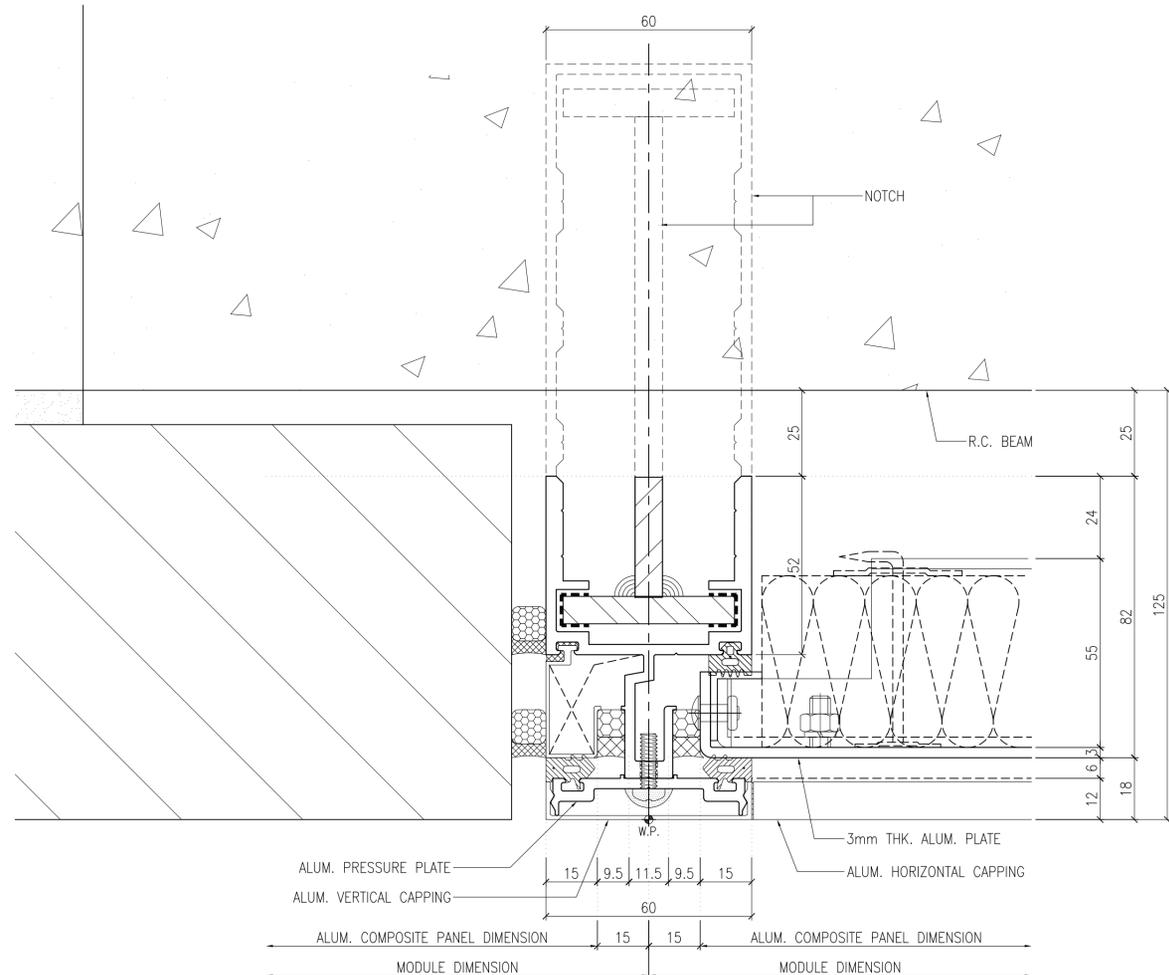


Drawn By: SUSH
Checked By: IZ
Scale: AS NOTED

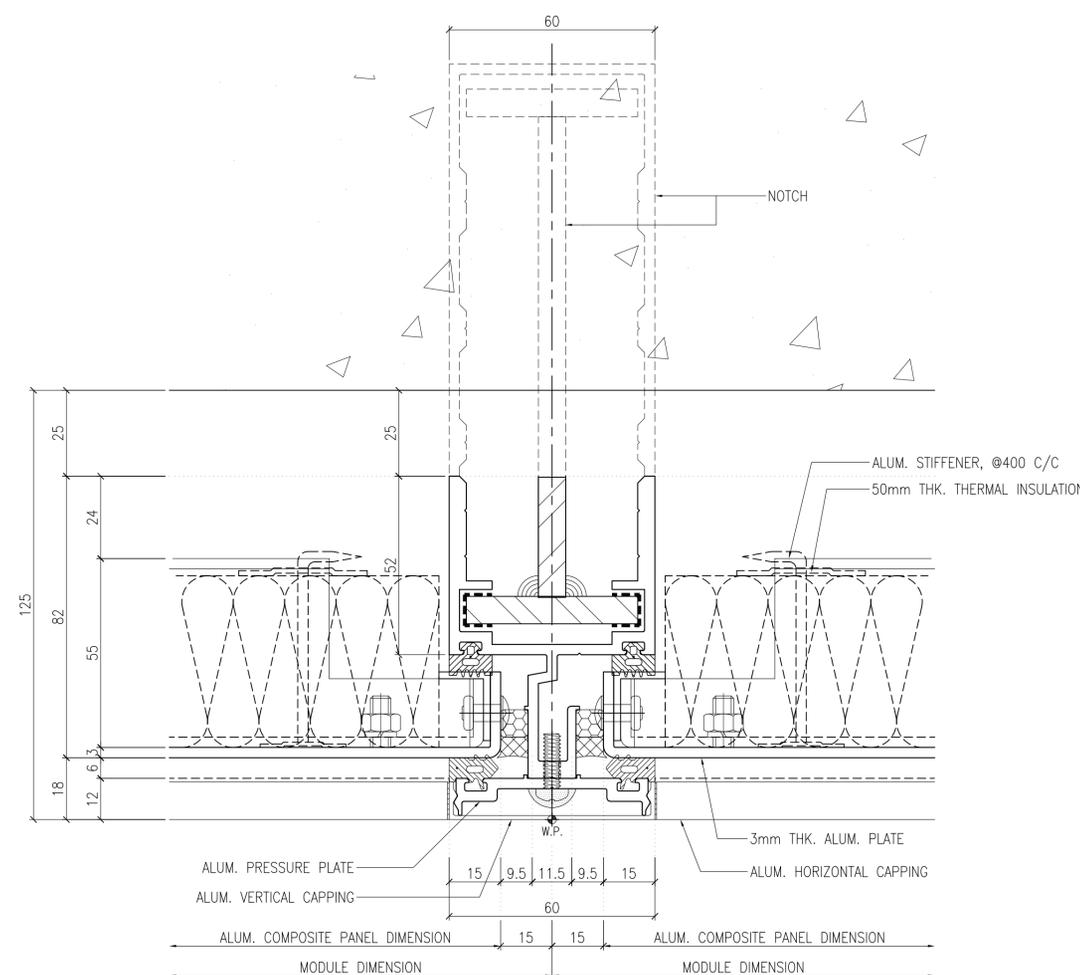
Drawing Title :

HORIZONTAL DETAILS 08
FOR CURTAIN WALL

A-6008



1
6008 HORIZONTAL DETAILS FOR CURTAIN WALL
ALUM. PANEL & MIDDLE MULLION POSITION
REMARK: REFER TO DRAWING '7002.dwg'



2
6008 HORIZONTAL DETAILS FOR CURTAIN WALL
ALUM. PANEL & MIDDLE MULLION POSITION
REMARK: REFER TO DRAWING '7002.dwg'



Asian University
For Women

Chittagong, Bangladesh
www.asian.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properzi Way
Somerville MA 02143, USA

Associate Architects
VITTI-SHS Consortium
2, Shangshad Avenue, 3rd
Level,
Munipuripara, Dhaka 1215,
Bangladesh

ASSOCIATE CONSULTANTS:
STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
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Engineering & Technology,
BUET,Polash, Dhaka-1000,
Bangladesh
Phone : 8614640,
9665650,PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
TECHNO CONSULTANTS
House no:86(1st floor),Road
no-9/A Dhanmondi, Dhaka-1209,
Bangladesh
Phone : 8610116-7.

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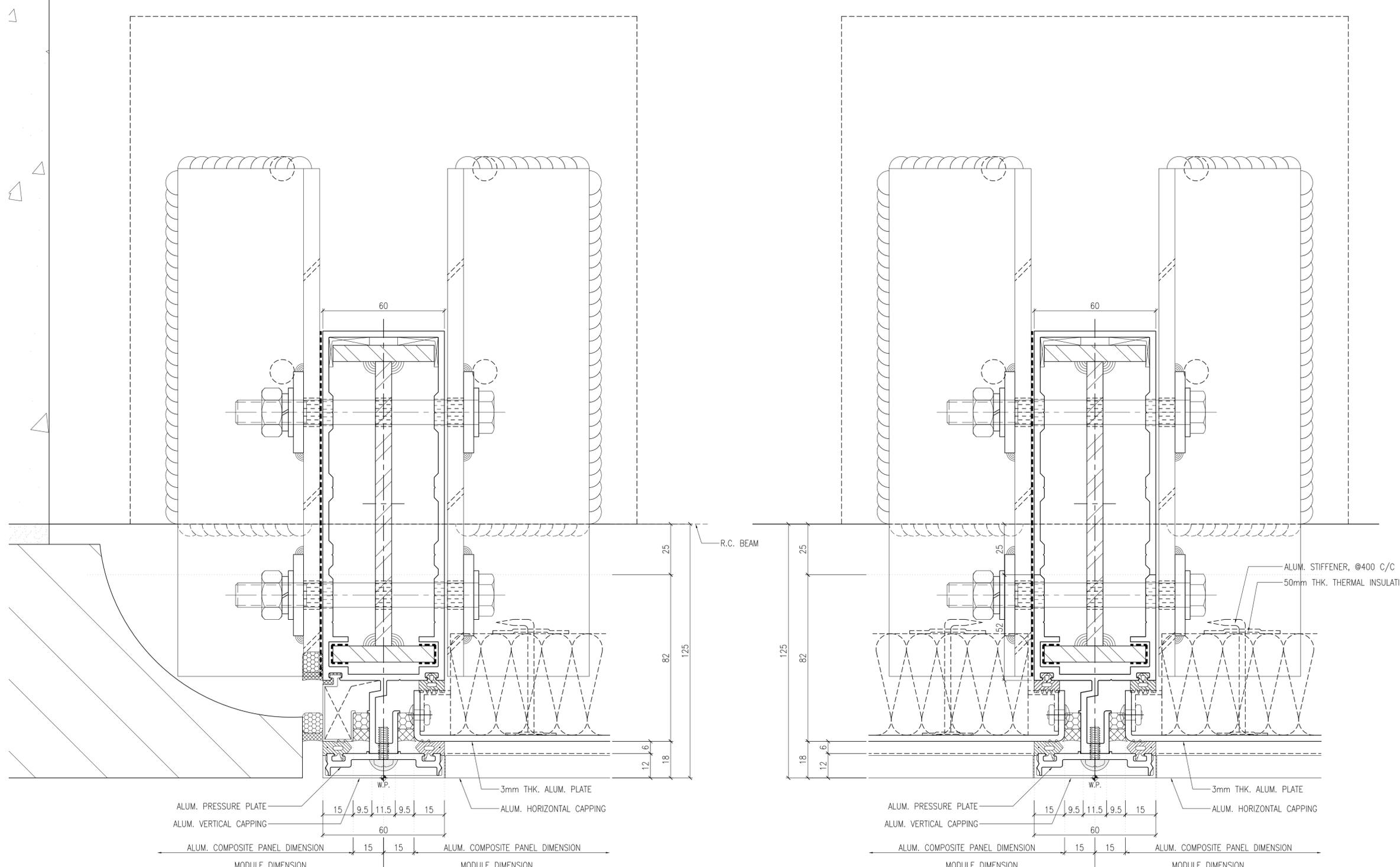


Drawn By: SUSH
Checked By: IZ
Scale: AS NOTED

Drawing Title :

HORIZONTAL DETAILS 09
FOR CURTAIN WALL

A-6009



1
6009 HORIZONTAL DETAILS FOR CURTAIN WALL
ALUM. PANEL & MIDDLE MULLION POSITION
REMARK: REFER TO DRAWING '7002.dwg'

2
6009 HORIZONTAL DETAILS FOR CURTAIN WALL
ALUM. PANEL & MIDDLE MULLION POSITION
REMARK: REFER TO DRAWING '7002.dwg'



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For Women

Chittagong, Bangladesh
www.asian.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
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100 Proserpi Way
Somerville MA 02143, USA

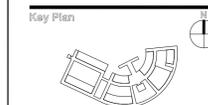
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STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology ,
BUET,Polash, Dhaka-1000,
Bangladesh
Phone : 8614640 ,
9665650.PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
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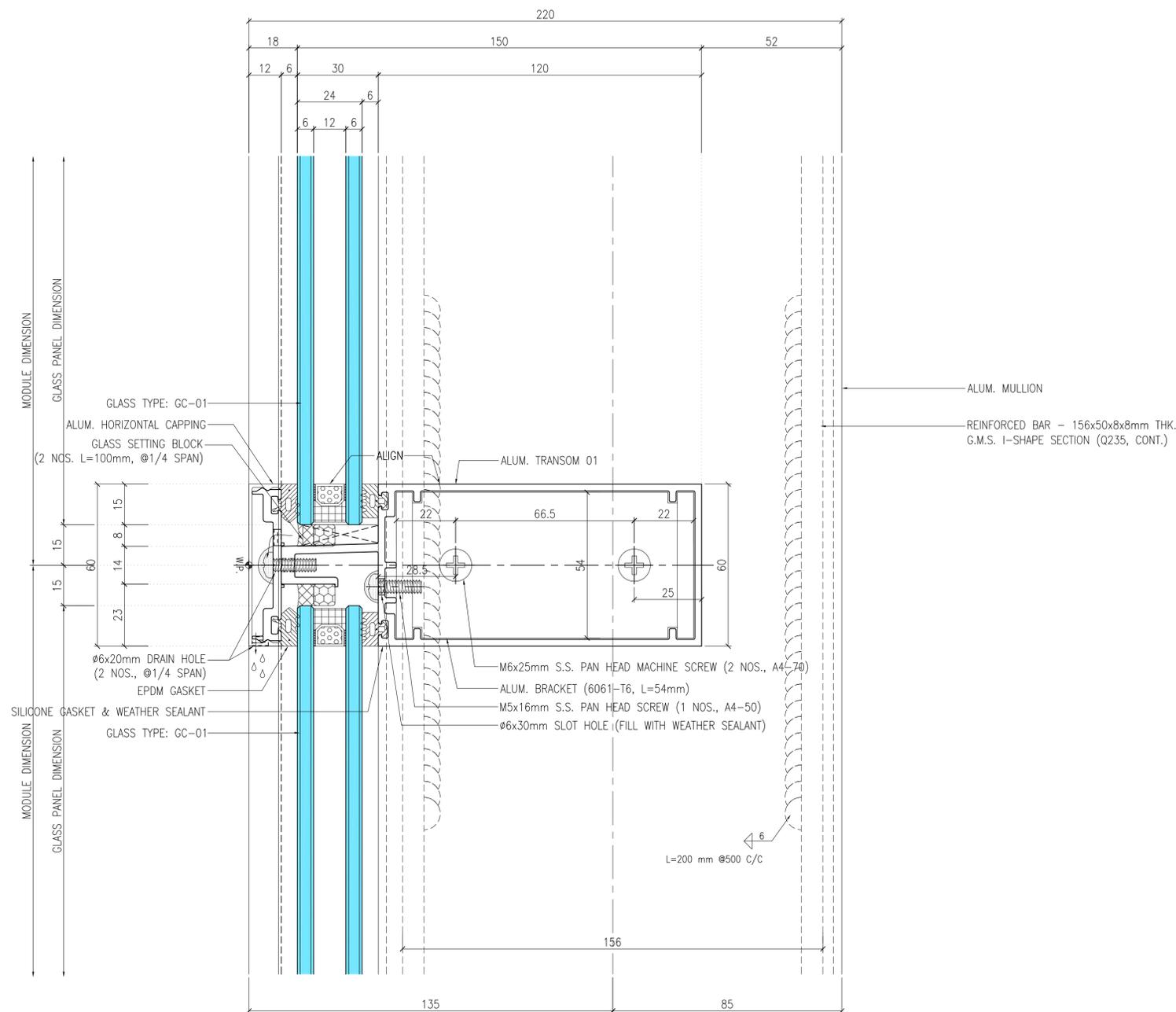
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Checked By : IZ
Scale : AS NOTED

Drawing Title :

VERTICAL DETAILS 01
FOR CURTAIN WALL

A-7001

1
7001
VERTICAL DETAILS FOR CURTAIN WALL
FIXING GLASS & MIDDLE TRANSOM POSITION
REMARK: REFER TO DRAWING '5001.dwg'





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For Women

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www.asian.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properl Way
Somerville MA 02143, USA

Associate Architects
VITTI-SHS Consortium
2, Shangstad Avenue, 3rd
Level,
Munipurpara, Dhaka 1215,
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DESIGN PLANNING AND
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Bangladesh
Phone : 8610116-7.

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Engineering & Technology,
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House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

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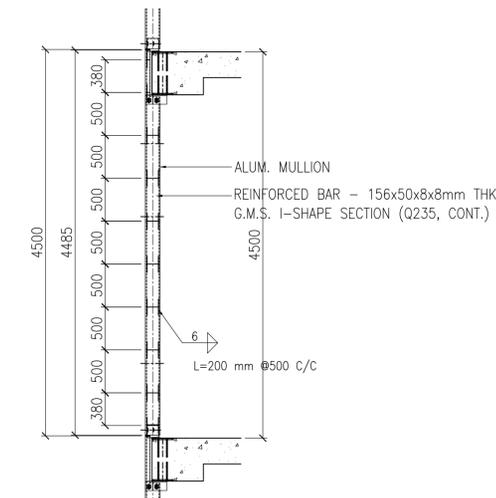


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Scale: AS NOTED

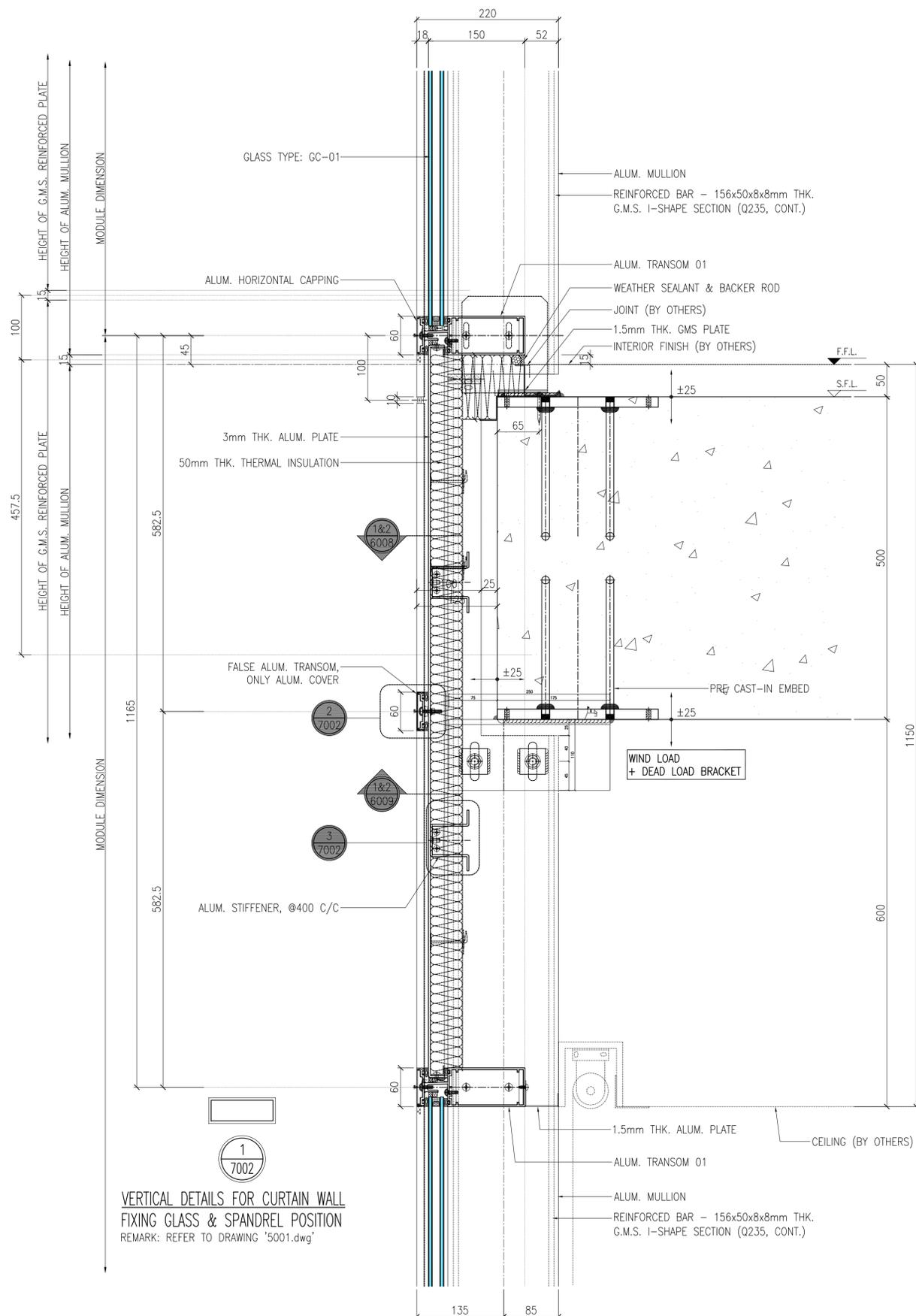
Drawing Title :

VERTICAL DETAILS 02
FOR CURTAIN WALL

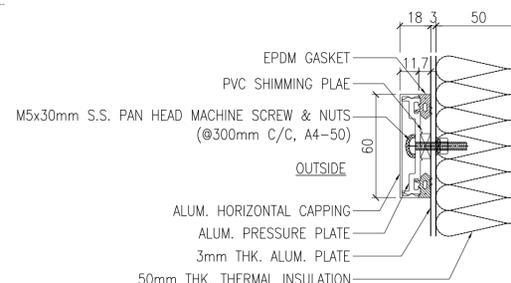
A-7002



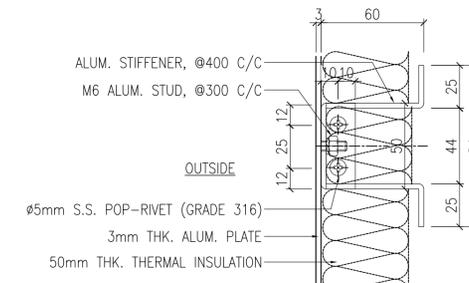
4
7002 FILLET WELD LAYOUT OUT ELEVATION FOR REINFORCED BAR
SCALE: 1:20



1
7002 VERTICAL DETAILS FOR CURTAIN WALL
FIXING GLASS & SPANDREL POSITION
REMARK: REFER TO DRAWING '5001.dwg'



2
7002 DETAILS FOR FALSE ALUM. TRANSOM,
ONLY ALUM. COVER
SCALE: 1:4



3
7002 DETAILS FOR ALUM. STIFFENER
SCALE: 1:4



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For Women

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Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Propperl Way
Somerville MA 02143, USA

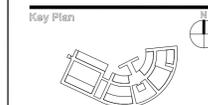
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DESIGN PLANNING AND
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LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

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Bangladesh University of
Engineering & Technology,
BUET, Paltash, Dhaka-1000,
Bangladesh
Phone : 8614640,
9665650,PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
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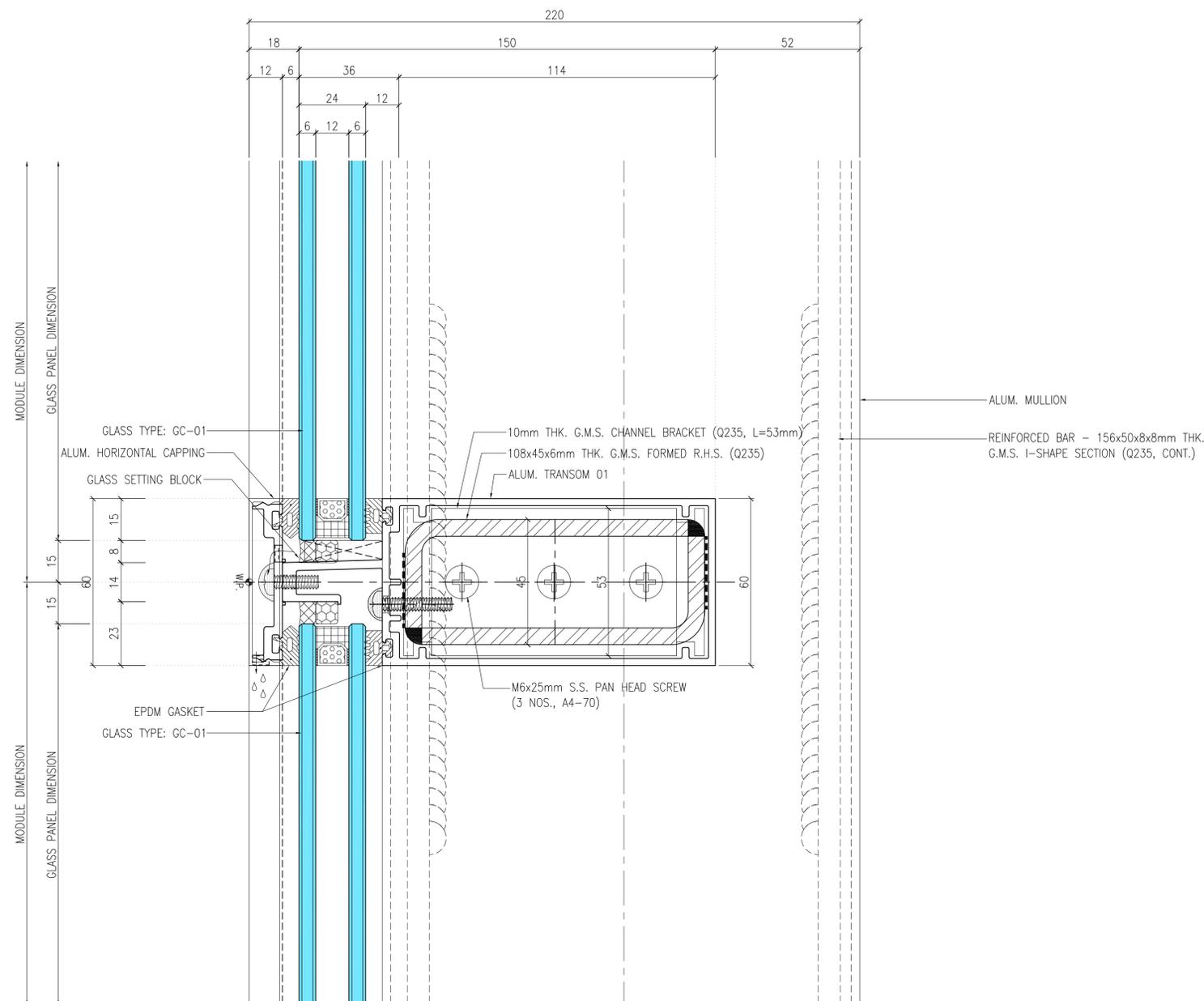
Drawn By : SUSH
Checked By : IZ
Scale : AS NOTED

Drawing Title :

VERTICAL DETAILS 03
FOR CURTAIN WALL

A-7003

1
7003
VERTICAL DETAILS FOR CURTAIN WALL
FIXING GLASS & MIDDLE TRANSOM POSITION
SPAN=2580mm
REMARK: REFER TO DRAWING '5004.dwg'





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Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properl Way
Somerville MA 02143, USA

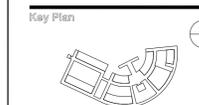
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DESIGN PLANNING AND
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LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology ,
BUET,Polash, Dhaka-1000,
Bangladesh
Phone : 8614640 ,
9665650,PABX.

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CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
TECHNO CONSULTANTS
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no-9/A Dhanmondi, Dhaka-1209,
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Phase One, Building 1a
Construction Document Phase.
(DETAIL DRAWINGS)

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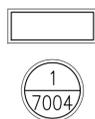
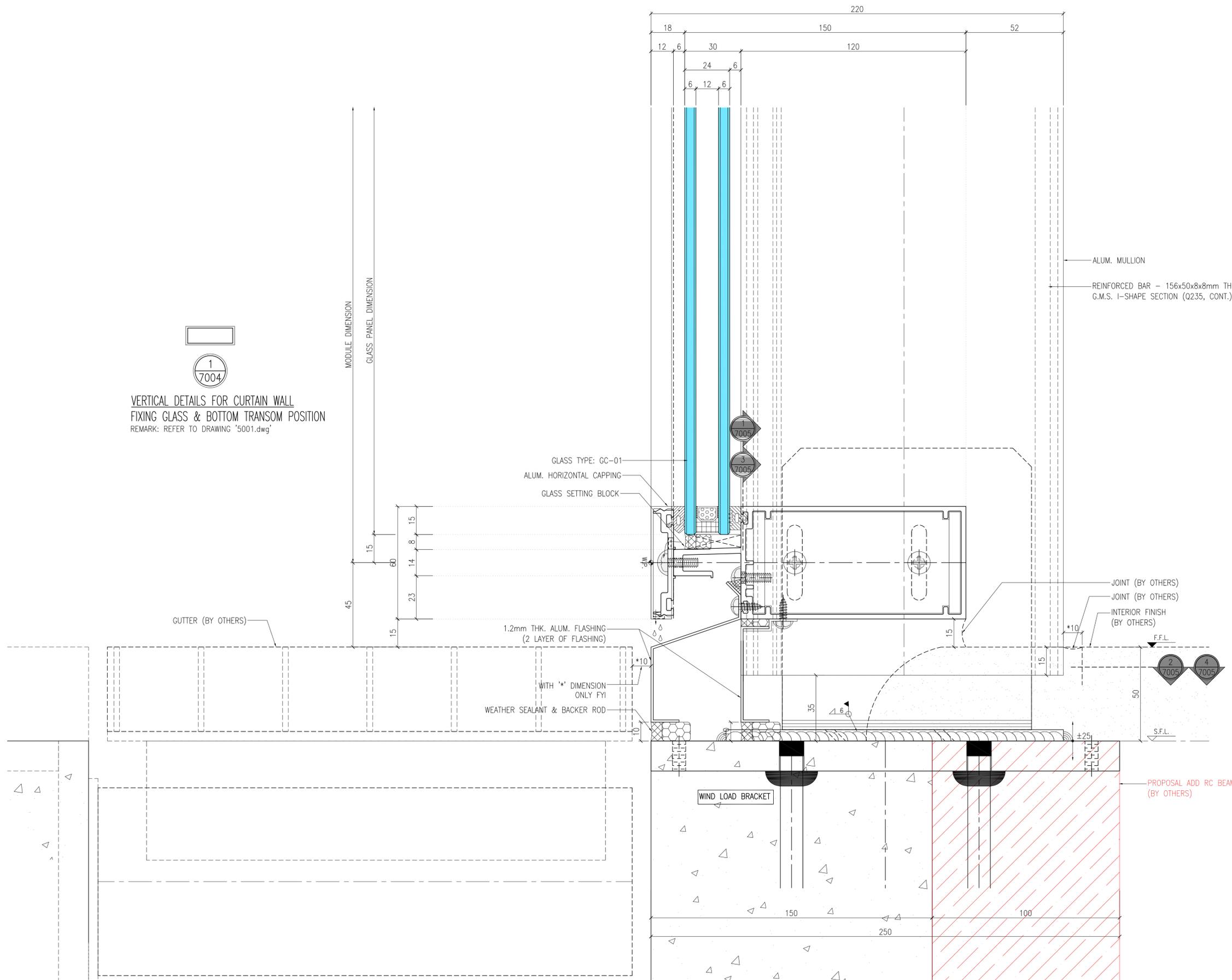
Checked By: IZ

Scale: AS NOTED

Drawing Title :

VERTICAL DETAILS 04
FOR CURTAIN WALL

A-7004



VERTICAL DETAILS FOR CURTAIN WALL
FIXING GLASS & BOTTOM TRANSOM POSITION
REMARK: REFER TO DRAWING '5001.dwg'

MODULE DIMENSION
GLASS PANEL DIMENSION

GLASS TYPE: GC-01
ALUM. HORIZONTAL CAPPING
GLASS SETTING BLOCK
1.2mm THK. ALUM. FLASHING
(2 LAYER OF FLASHING)
WITH '*' DIMENSION
ONLY FYI
WEATHER SEALANT & BACKER ROD

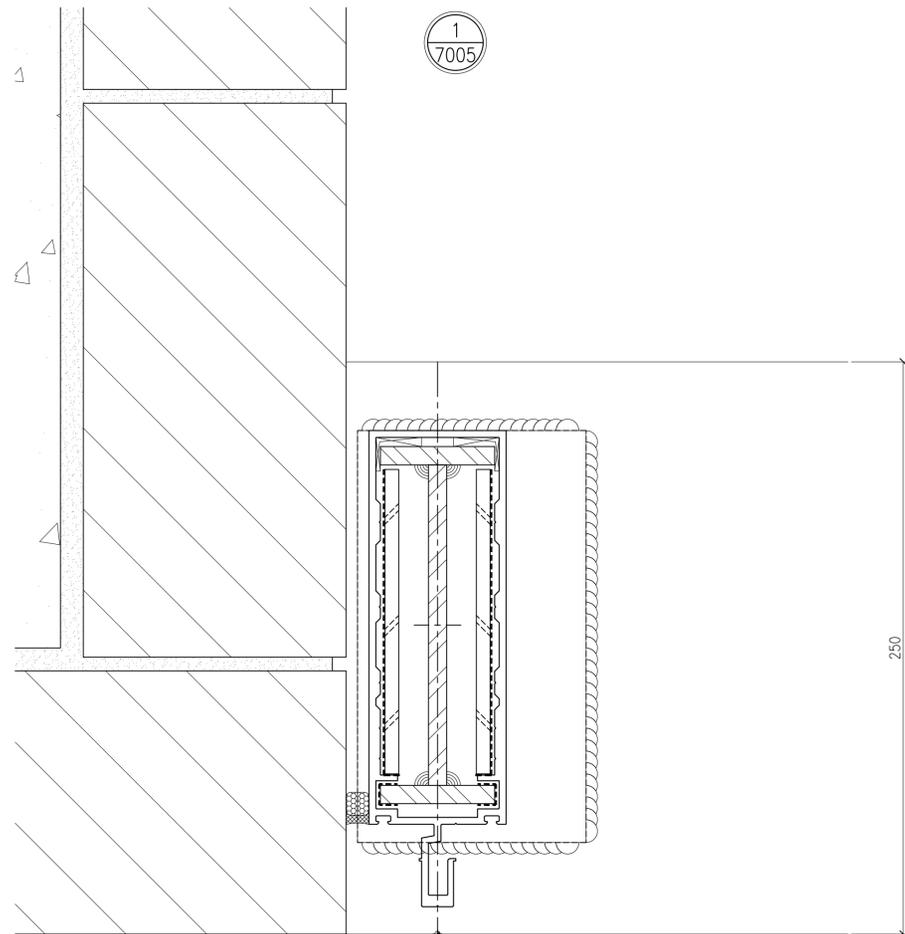
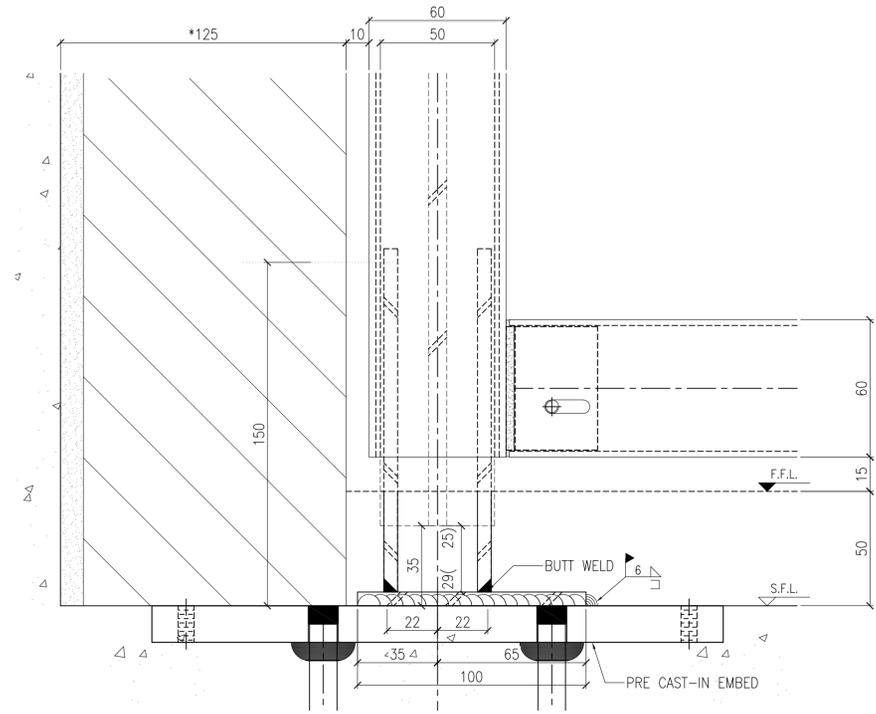
ALUM. MULLION
REINFORCED BAR - 156x50x8x8mm THK.
G.M.S. I-SHAPE SECTION (Q235, CONT.)

JOINT (BY OTHERS)
JOINT (BY OTHERS)
INTERIOR FINISH
(BY OTHERS)

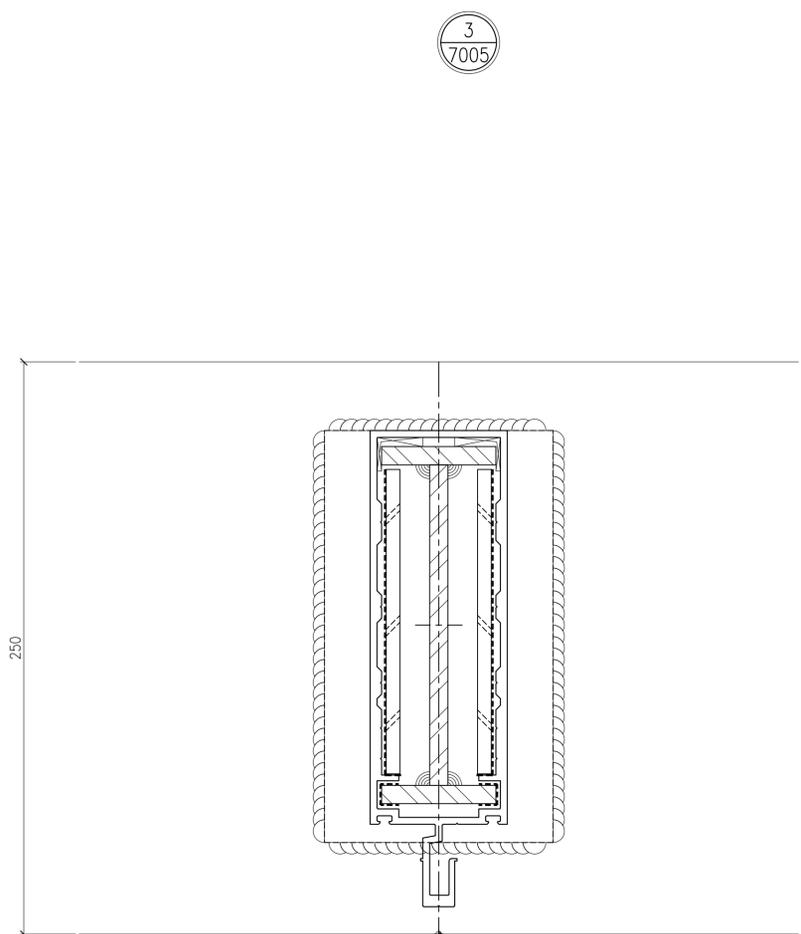
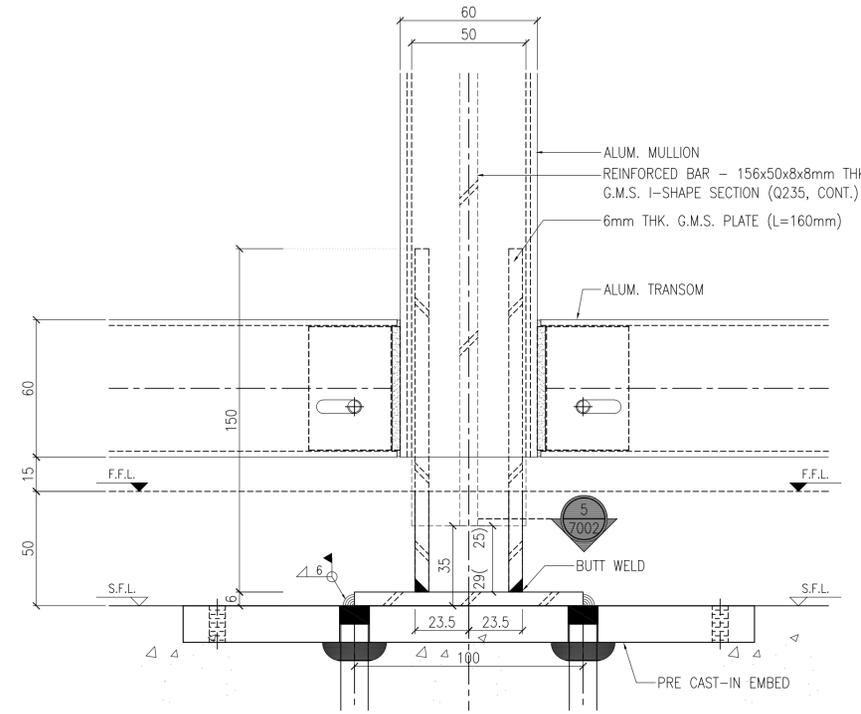
F.F.L.
S.F.L.

PROPOSAL ADD RC BEAM
(BY OTHERS)

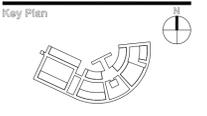
WIND LOAD BRACKET



JAM MULLION



MIDDLE MULLION



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(DETAIL DRAWINGS)

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Drawn By: SUSH
Checked By: IZ
Scale: AS NOTED

Drawing Title :

VERTICAL DETAILS 05
FOR CURTAIN WALL

A-7005



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For Women

Chittagong, Bangladesh
www.asian.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properzi Way
Somerville MA 02143, USA

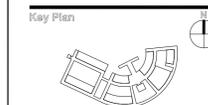
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STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology,
BUET,Pobashi, Dhaka-1000,
Bangladesh
Phone : 8614640,
9665650.PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL :
TECHNO CONSULTANTS
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no-9/A Dhanmondi, Dhaka-1209,
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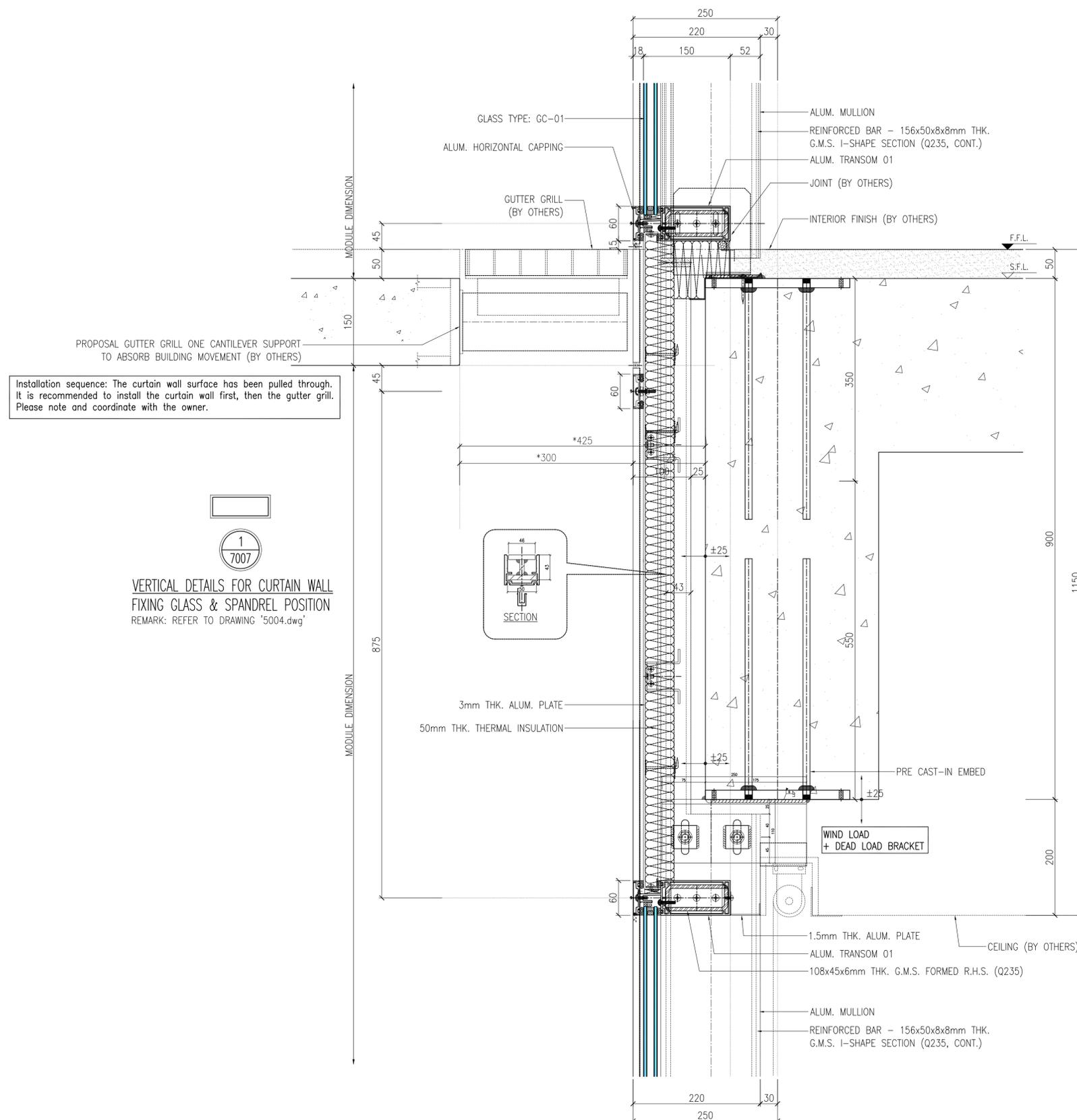
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Drawing Title :

VERTICAL DETAILS 07
FOR CURTAIN WALL

A-7007





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Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Proserpi Way
Somerville MA 02143, USA

Associate Architects
VITTI-SHS Consortium
2, Shangshad Avenue, 3rd
Level,
Munipurpara, Dhaka 1215,
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House no:4/1(2nd floor), Road
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Dhanmondi,Dhaka-1205,
Bangladesh
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Bangladesh
Phone : 8614640,
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CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
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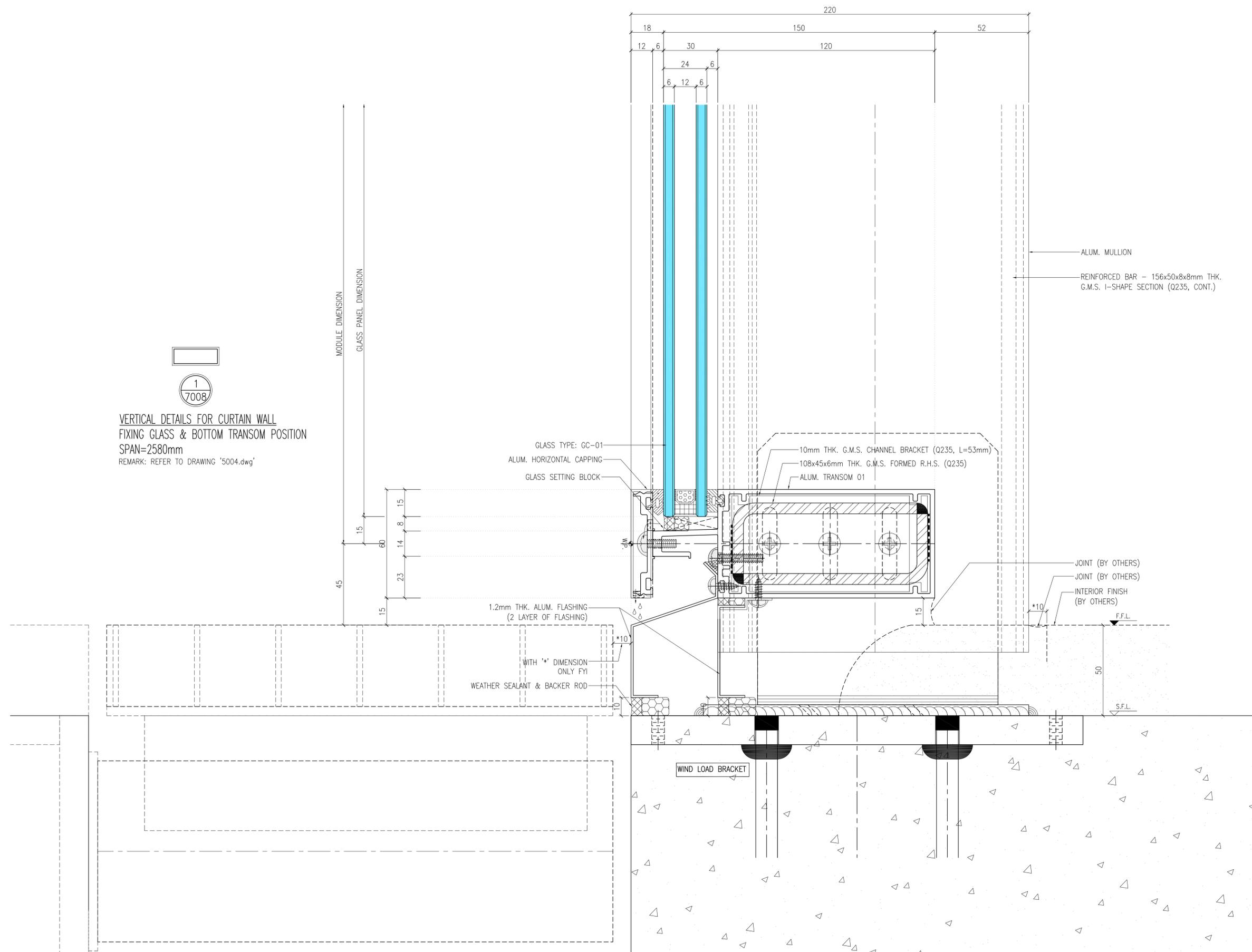
Checked By: IZ

Scale: AS NOTED

Drawing Title :

VERTICAL DETAILS 08
FOR CURTAIN WALL

A-7008



1
7008
VERTICAL DETAILS FOR CURTAIN WALL
FIXING GLASS & BOTTOM TRANSOM POSITION
SPAN=2580mm
REMARK: REFER TO DRAWING '5004.dwg'



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Chittagong, Bangladesh
www.aufw.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
Moshe Safdie and Associates
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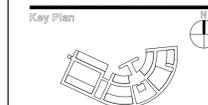
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House no:4/1(2nd floor), Road no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology ,
BUET,Palashi, Dhaka-1000,
Bangladesh
Phone : 8614640 ,
9665650.PABX.

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CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

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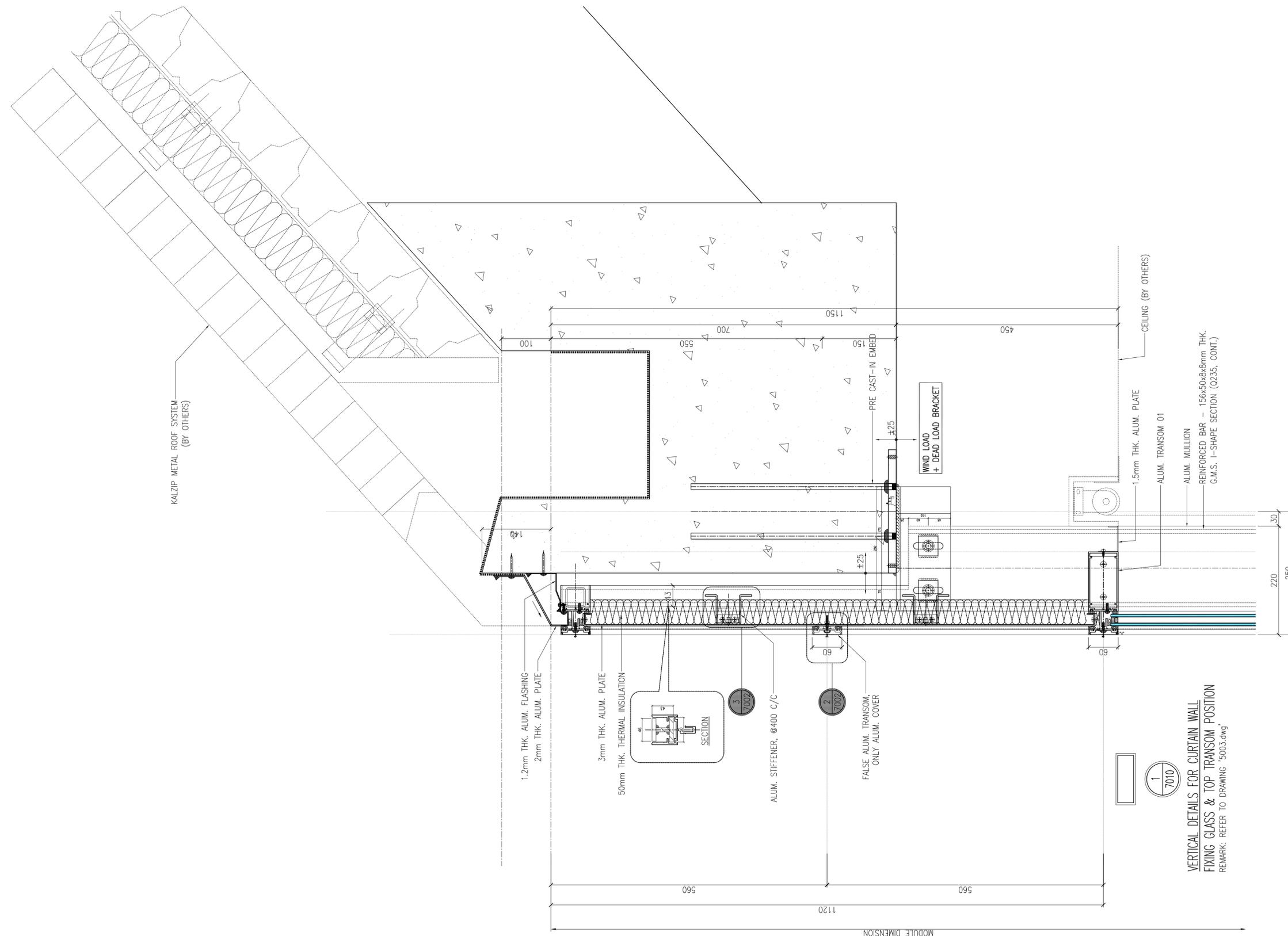


Drawn By : SUSH
Checked By : IZ
Scale : AS NOTED

Drawing Title :

VERTICAL DETAILS 10
FOR CURTAIN WALL

A-7010



VERTICAL DETAILS FOR CURTAIN WALL
FIXING GLASS & TOP TRANSOM POSITION
REMARK: REFER TO DRAWING 5003.dwg

MODULE DIMENSION



Asian University For Women

Chittagong, Bangladesh
www.asu.edu.bd

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
Moshe Safdie and Associates
100 Properzi Way
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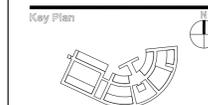
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DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

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Bangladesh
Phone : 8610116-7.

ELECTRICAL :
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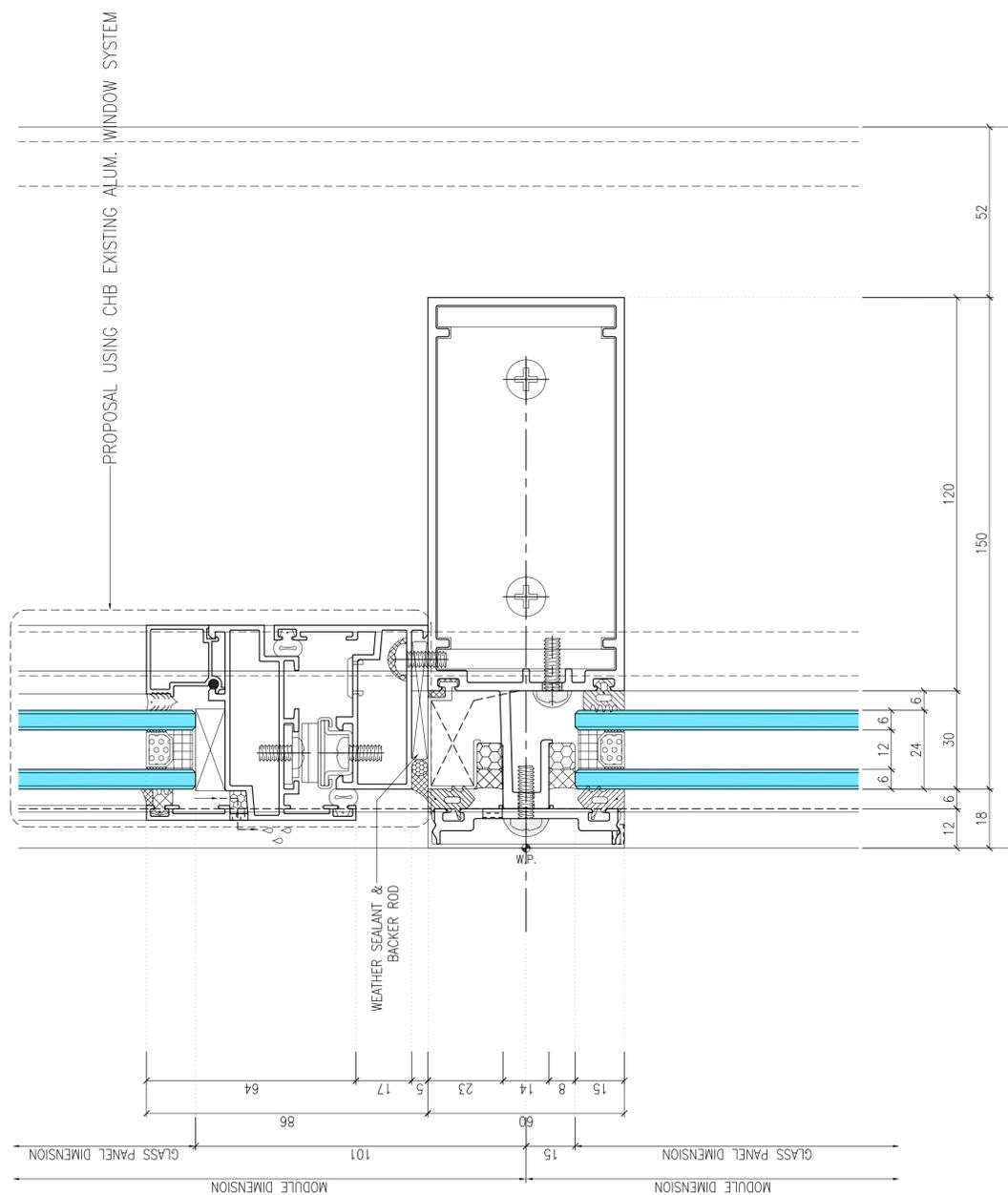


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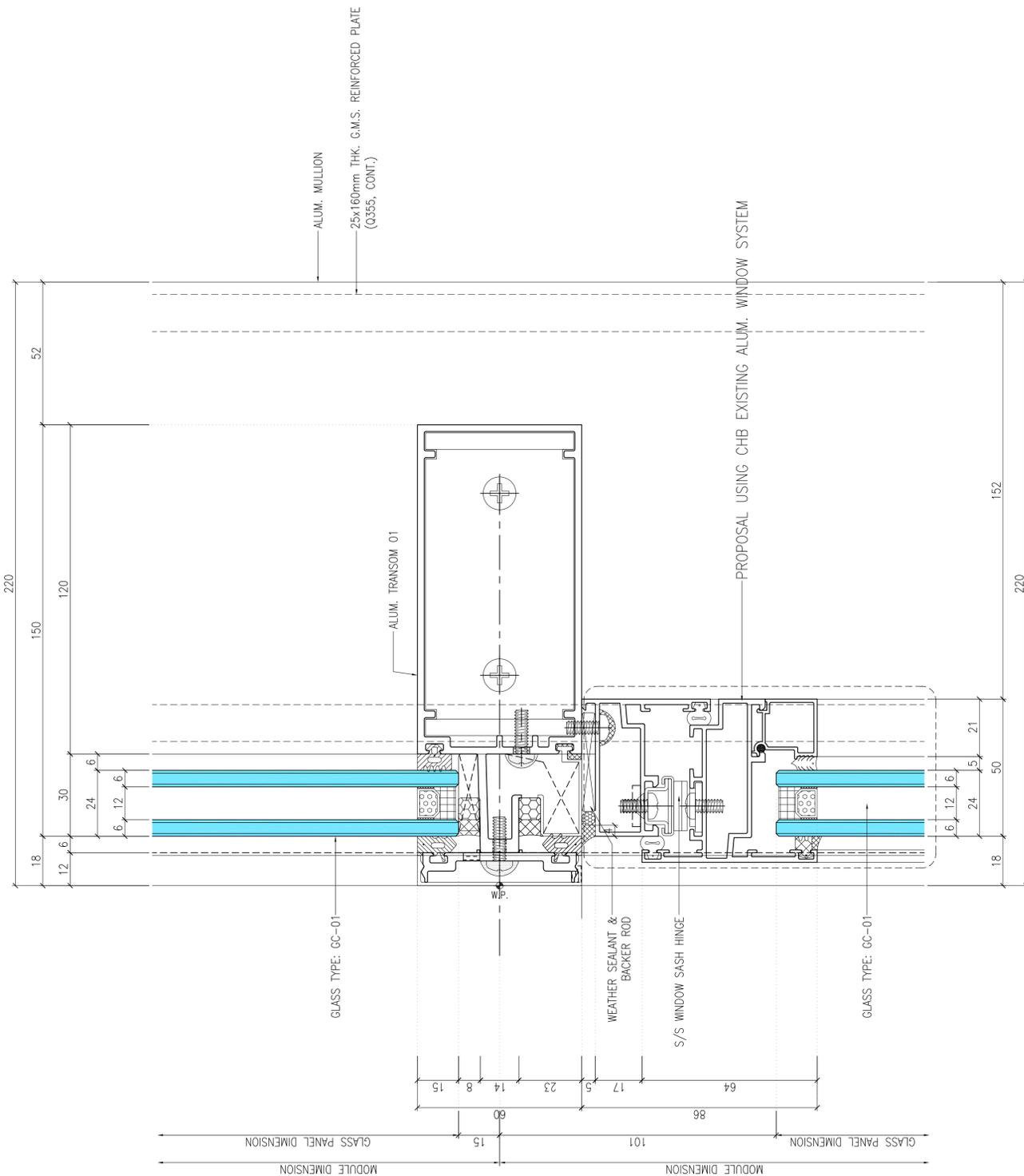
Drawing Title :

VERTICAL DETAILS 11
FOR CURTAIN WALL

A-7011



1
7011
VERTICAL DETAILS FOR CURTAIN WALL
WINDOW & MIDDLE TRANSOM POSITION
REMARK: REFER TO DRAWING '5001.dwg'



2
7011
VERTICAL DETAILS FOR CURTAIN WALL
WINDOW & MIDDLE TRANSOM POSITION
REMARK: REFER TO DRAWING '5001.dwg'



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For Women

Chittagong, Bangladesh
www.asian.edu.bd
Phase One, Building 1a

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Asian University for Women
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1100 Massachusetts Ave.
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Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Propperl Way
Somerville MA 02143, USA

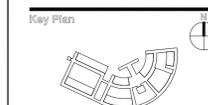
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STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

BRTC
Bangladesh University of
Engineering & Technology ,
BUET,Polash, Dhaka-1000,
Bangladesh
Phone : 8614640 ,
9665650,PABX.

MECHANICAL AND PLUMBING :
AVE ENGINEERS &
CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
TECHNO CONSULTANTS
House no:86(1st floor),Road
no-9/A Dhanmondi, Dhaka-1209,
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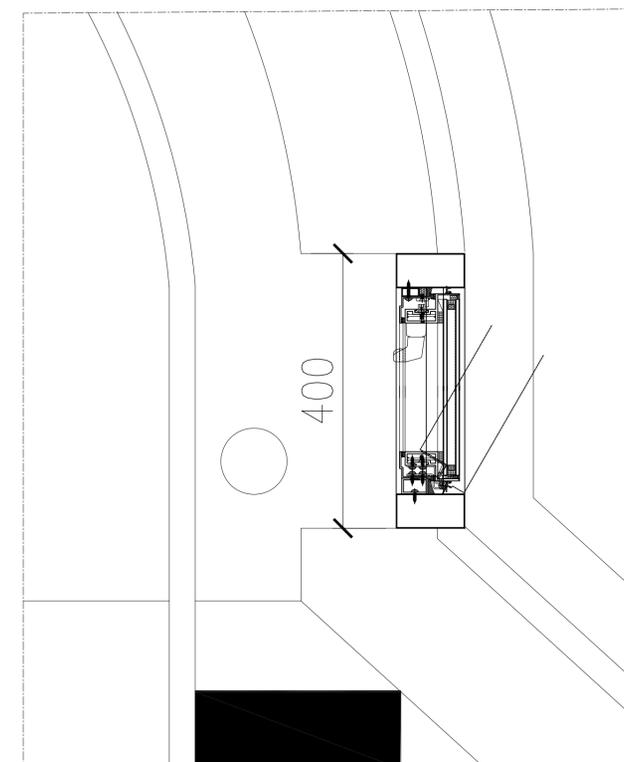
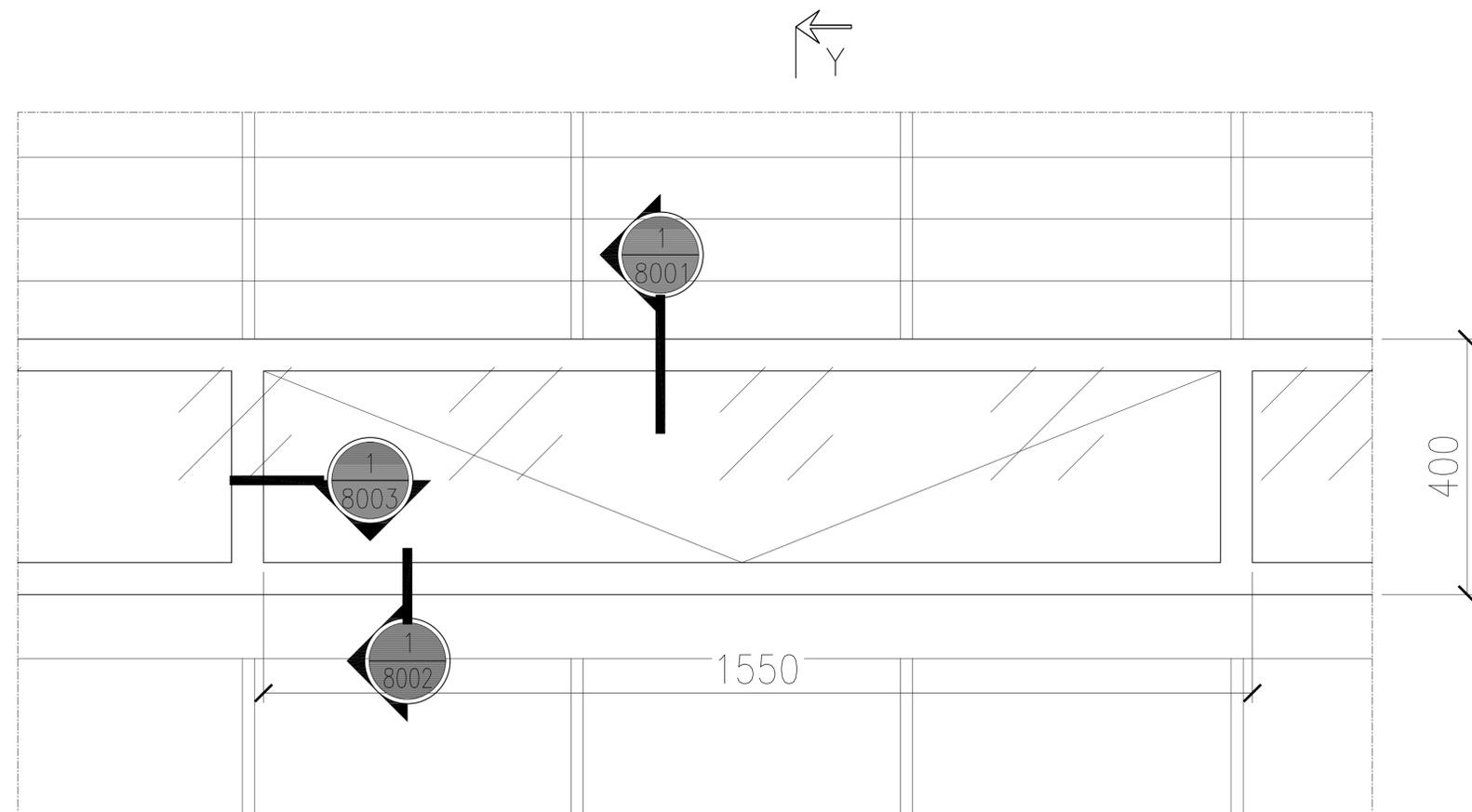
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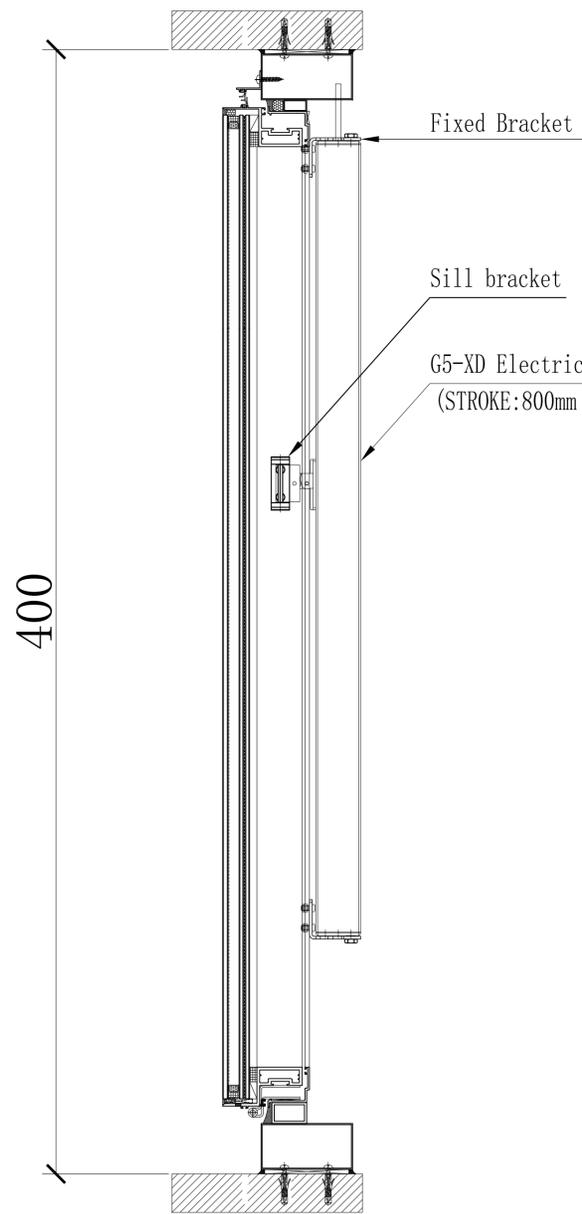
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VERTICAL DETAILS 02
FOR CURTAIN WALL

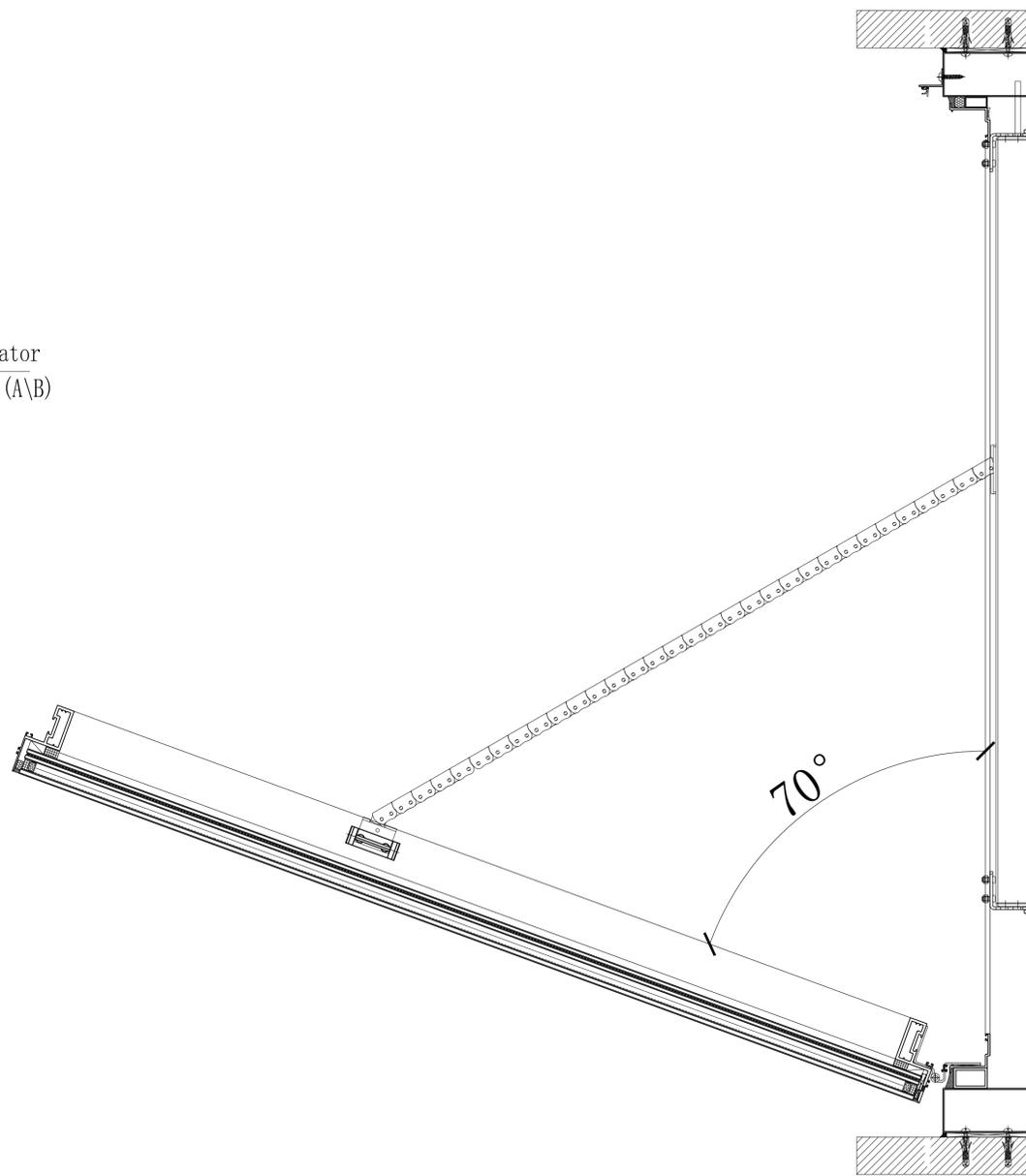
A-8000



Y-Y SECTION



Close



Open



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Phase One, Building 1a

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Cambridge MA 02138, USA

Architect
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Associates**
100 Propperz Way
Somerville MA 02143, USA

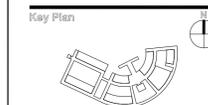
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DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
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Phone : 8610116-7.

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Engineering & Technology ,
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CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

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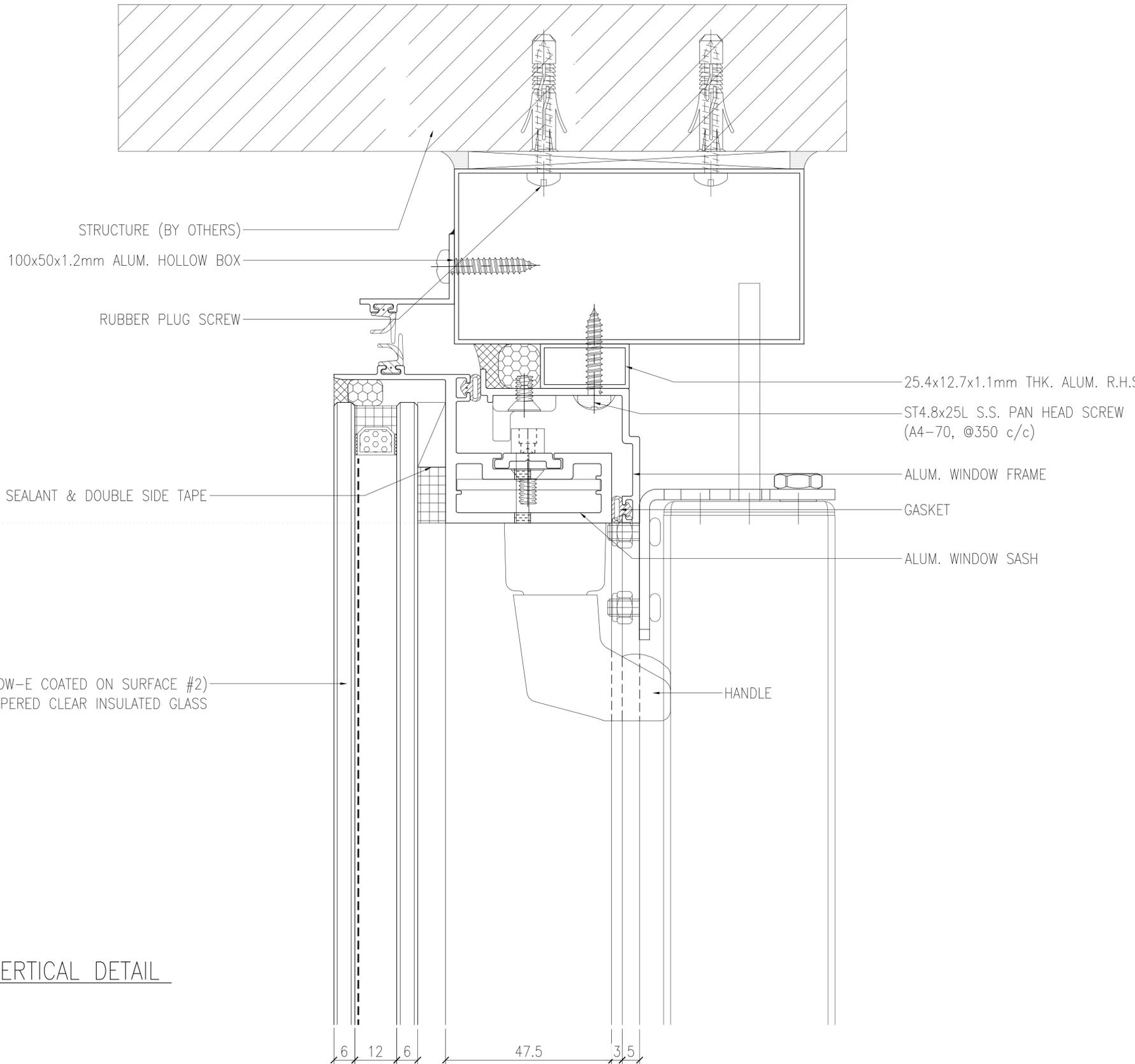
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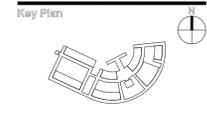
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VERTICAL DETAILS 02
FOR CURTAIN WALL

A-8000a



1 VERTICAL DETAIL
8001



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HORIZONTAL DETAILS 01
FOR CURTAIN WALL

A-8001



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For Women

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www.asian.edu.bd
Phase One, Building 1a

Client
Asian University for Women
Support Foundation
1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properl Way
Somerville MA 02143, USA

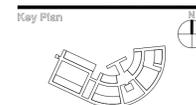
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STRUCTURAL & CIVIL :
DESIGN PLANNING AND
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LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

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Bangladesh University of
Engineering & Technology ,
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Bangladesh
Phone : 8614640 ,
9665650,PABX.

MECHANICAL AND PLUMBING :
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CONSULTANT LTD.
House no:5/3(1st floor), Block-A
Lalmatia,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

ELECTRICAL:
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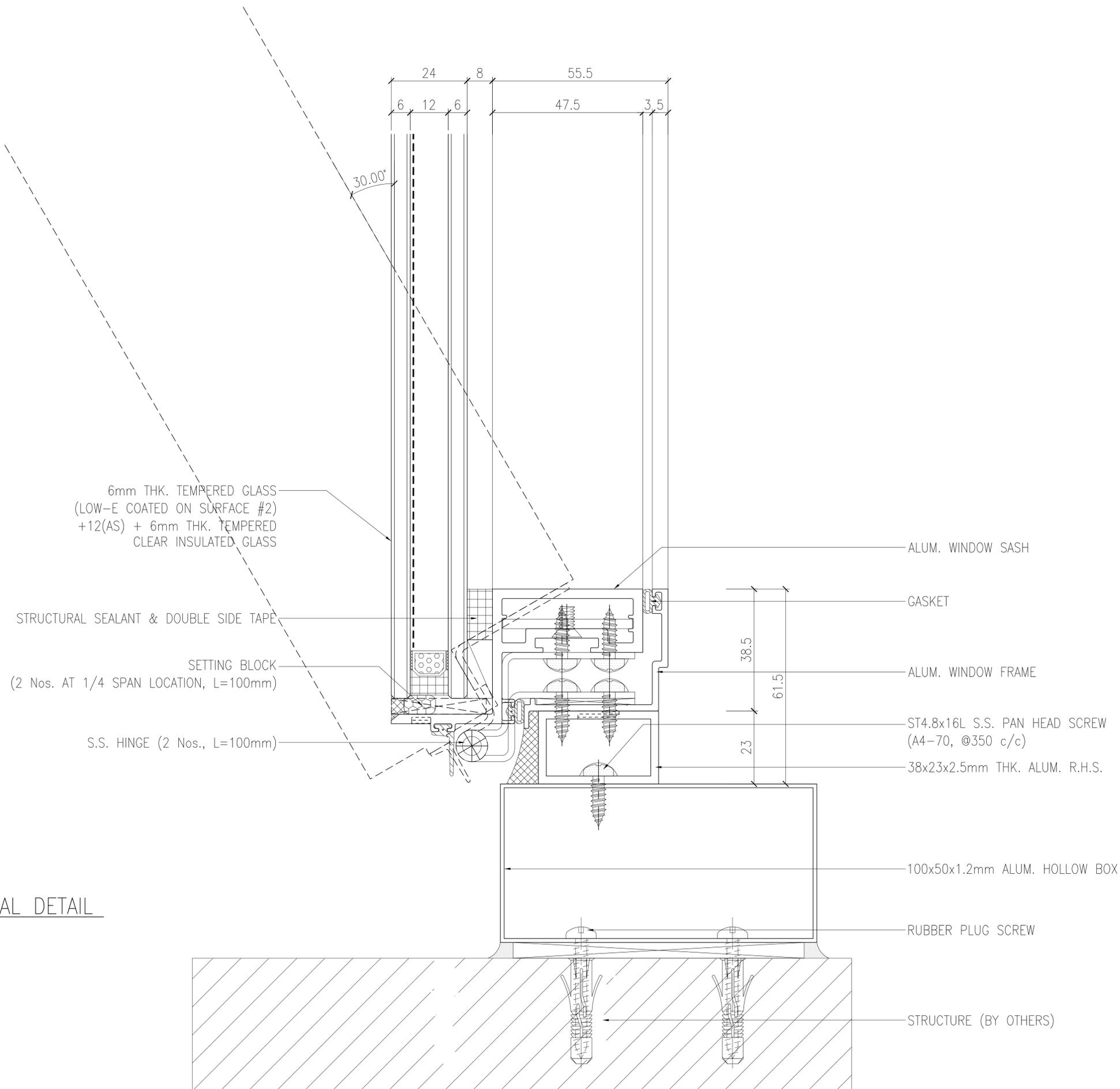
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Drawing Title :

HORIZONTAL DETAILS 02
FOR CURTAIN WALL

A-8002



1
8002

VERTICAL DETAIL





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Phase One, Building 1a

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Asian University for Women
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1100 Massachusetts Ave.
Suite 300
Cambridge MA 02138, USA

Architect
**Moshe Safdie and
Associates**
100 Properl Way
Somerville MA 02143, USA

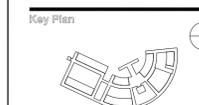
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STRUCTURAL & CIVIL :
DESIGN PLANNING AND
MANAGEMENT CONSULTANT
LTD. (DPM)
House no:4/1(2nd floor), Road
no-4
Dhanmondi,Dhaka-1205,
Bangladesh
Phone : 8610116-7.

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Bangladesh University of
Engineering & Technology ,
BUET,Polash, Dhaka-1000,
Bangladesh
Phone : 8614640 ,
9665650,PABX.

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CONSULTANT LTD.
House no:5/3(1st floor), Block-A
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Bangladesh
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ELECTRICAL :
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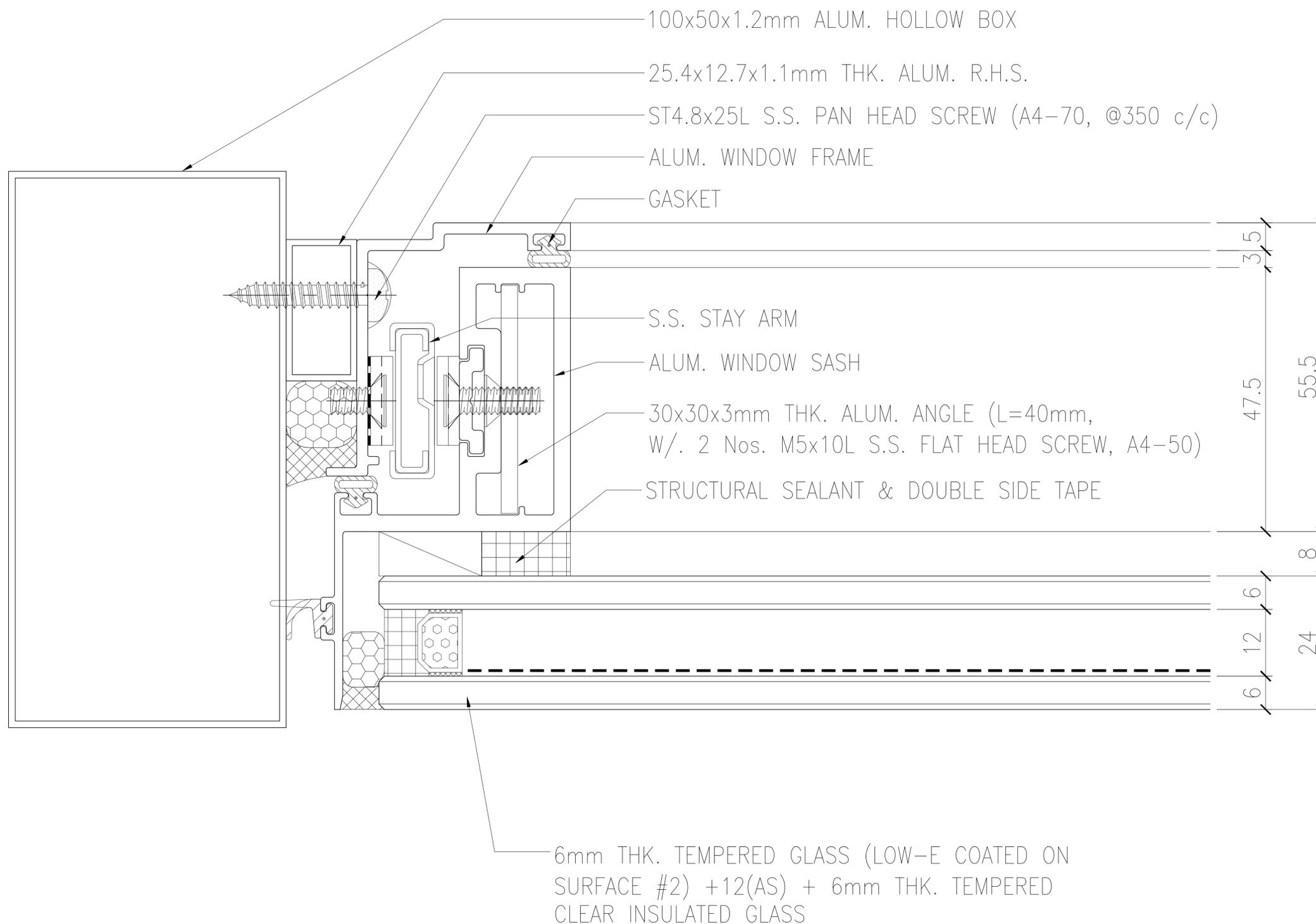


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Checked By : IZ
Scale : AS NOTED

Drawing Title :

HORIZONTAL DETAILS 03
FOR CURTAIN WALL

A-8003



1 HORIZONTAL DETAIL
8003