

**Request for Proposal for Steel Structure work at Asian University for Women
Summary Sheet**

Name of the company	Asian University for Women
Procurement Reference Number	Steel Structure Work of B-01,02 & 03
Date of issue of the RFP	22 October, 2025
Date and Closing Time for RFP submission	26 November, 2025 (12:01 pm) (GMT +6)
Quotation submission mail address	tender134@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: tender134@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.

Objective

Asian University for Women (AUW) seeks to graduate women who will be skilled and innovative professionals, service-oriented leaders in the businesses and communities in which they will work and live, and promoters of intercultural understanding and sustainable human and economic development in Asia and throughout the world.

Requirements

We, to achieve our objectives, need the following product/services are below:

Description of Product / Service: Request for Proposal for STEEL STRUCTURE WORK OF B-01,02 & 03

Section 01: Building Description

1.1 BUILDING NO: 01	Usage: STEEL STRUCTURE WORK OF B-01,02 & 03
	Location: CHITTAGONG
	Quantity of identical buildings: 03

1.1.1 AREA NO. 01	FLOORS	AREA (M ²)
	Ground Floor	As per drawing
	Total Area	

BUILDING PARAMETERS		
1	Frame Type	As per drawing
2	Width (m)	
3	Length (m)	
4	Clear Height	
5	Width Module (m)	
6	Roof Slope	
7	Column Base	
8	Bay Spacing (m)	
9	End Wall Column Spacing	
10	Bracing Type	
11	Side & End Wall Girt	
12	Eave Type	
13	Gable Type	

OPEN WALL CONDITIONS		
1	Near Side Wall (NSW)	Full Height Brick Wall By Others
2	Far Side Wall (FSW)	Full Height Brick Wall By Others
3	Left End wall (LEW)	Full Height Brick Wall By Others
4	Right End wall (REW)	Full Height Brick Wall By Others

Section 02: Applicable Codes & Deflection Criteria

All buildings included in this proposal are designed in accordance with the following codes:

- BANGLADESH NATIONAL BUILDING CODE (BNBC).**
 2006 EDITION
 HOUSING AND BUILDING RESEARCH INSTITUTE, MIRPUR, DHAKA – 1216.
- STEEL CONSTRUCTION MANUAL.**
 14TH EDITION, SECOND PRINTING
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), ILLINOIS 60601-1802.
- COLD FORMED STEEL DESIGN.**
 AISI MANUAL 2008 EDITION
 AMERICAN IRON AND STEEL INSTITUTE (AISI).
- STRUCTURAL WELDING CODE - STEEL.**
 AWS D1.1/D1.1M:2010 AN AMERICAN NATIONAL STANDARD AMERICAN WELDING SOCIETY (AWS), DANVERS, MA 01923

DESIGN LOADS: (REFER TO SECTION 2 ‘APPLICABLE CODES’)		
1	Design Live Load (kN/m ²) on Purlin	1.00 (100 Kg/m ²)
2	Design Live Load (kN/m ²) on Frame	0.6 (60 Kg/m ²)
3	Design Dead Load (kN/m ²)	1.1 x Self Weight + 0.35 Kg/m ² on Frame for 7 layer Roofing Material + 0.25 Kn/m ² for Collateral Load
4	Wind Speed (Km/hr)	260.0
5	Wind Exposure	B
6	Seismic Zone	Zone-2
7	Seismic Site Class	S2

DEFLECTION CRITERION			
SL.	STRUCTURAL MEMBER	STANDARD ALLOWABLE DEFLECTION	LOAD CASE
Rigid Frame and End wall Rafters Vertical Deflection			
1	With fully sheeted walls	L/180 & L/120	L or W & D+L
2	With Block wall and sheeting of equal heights		
3	With full height Block wall		
4	With glazing & sheeting of equal heights		
5	With full height glazing		
6	With pendant operated crane		
Rigid Frame and Portal Frame Sway (Horizontal)			
1	With fully sheeted walls	E _h /60	W or E
2	With Block wall and sheeting of equal heights	E _h /80	
3	With full height Block wall or Precast walls	E _h /100	
4	With glazing & sheeting of equal heights	E _h /150	
5	With full height glazing	E _h /240	
6	Office/Residential/Multi Storied Buildings	H/300	
Mezzanine, Jack Beams, Panels & Purlins, Grating, Checkered Plates (Vertical)			
1	Beams & Joists of Mezzanine, Roof Platform, walkway etc.	Span / 240	(D + L)
		Span / 360	L
2	Jack Beams	Span / 240	(D + L) or (D + W)
		Span / 360	L or W
		Span /120	(D + L)
		Span/180	L or W
3	Roof Purlins	Span / 150	L
		Span / 180	W
		Span / 120	D + L
4	Gratings, Checkered Plates	Span / 150	D + L
Top Running Cranes (Vertical)			
1	Runway Beam _CMAA ‘A’, ‘B’ & ‘C’	L/600	Cr
2	Runway Beam _CMAA ‘D’	L/800	
3	Runway Beam _CMAA ‘E’, & ‘F’	L/1000	
4	Top Running pendant operated crane	C _{BH} /100	W or Cr
5	Top Running cab operated crane	C _{BH} /240 ≤ 50 mm	
6	Runway Beam _(Lateral Deflection)	L/400	Cr
Wall Panels & Girts, Wind Columns, Horizontal Beams			
1	Wall/ Roof Panels	Span / 60	Total Load
2	Wall Girts with Metal Sheeting	Span / 90	W
3	Wind Columns	Span / 120	
For cantilevers ‘L’ shall be taken as twice the length of cantilever			
Legend	E _H - Eave Height	W- Wind Load	D- Dead Load ; L- Live Load
	C _{BH} - Crane Beam Height	E- Seismic Load	Cr- Crane Load

REFERENCES: IBC-2012, AISC-DG_3, ASCE/SEI 7-10, BS 5950

Section 03: Material Specifications

The building & its components have been designed based on the below material standards and specifications:

material specifications that will be used in the project.			
SL.	COMPONENTS	SPECIFICATIONS	MINIMUM YIELD STRENGTH
1	Built-Up Members	ASTM A 572M Grade 50 Or Q345B	$F_y = 34.5 \text{ kN/cm}^2$
2	Hot-Rolled Members		
	➤ Columns & Beams	ASTM A 36 Grade 36	$F_y = 24.8 \text{ kN/cm}^2$
	➤ Angles	ASTM A 36 Grade 36	$F_y = 24.8 \text{ kN/cm}^2$
	➤ Pipes	ASTM A53M Type B	$F_y = 24.14 \text{ kN/cm}^2$ $F_u = 41.37 \text{ kN/cm}^2$
	➤ Channels	ASTM A 36 Grade 36	$F_y = 24.8 \text{ kN/cm}^2$
3	Cold Formed Secondary Members		
	Galvanized Steel	ASTM A 653 Grade 50, Z275	$F_y = 34.5 \text{ kN/cm}^2$
4	Sheeting & Liner Panels		
	ZincAlume Steel	ASTM A 792 550 MPa, AZ150	$F_y = 55.0 \text{ kN/cm}^2$
	Standing Seam Sheeting	ASTM A 792 300 MPa, AZ150	$F_y = 30.0 \text{ kN/cm}^2$
5	X-Bracing Members		
	➤ Rods	ASTM A 36 Grade 36	$F_y = 24.8 \text{ kN/cm}^2$
	➤ Angles	ASTM A 36 Grade 36	$F_y = 24.8 \text{ kN/cm}^2$
6	Anchor bolts	ASTM A 36 Grade 36	$F_u = 40.0 \text{ kN/cm}^2$
7	High strength Bolts	ASTM A 325M Class 8.8 Type 1 Or DIN 933 Class 8.8	$F_y = 30.3 \text{ kN/cm}^2$ $F_u = 80.0 - 83.0 \text{ kN/cm}^2$
8	Sheeting Screw & Fasteners	AS 3566, Class 3 & 4	
9	Mezzanine Deck Panels		
	Galvanized Steel	ASTM A 653M Grade 50, Z275	$F_y = 34.5 \text{ kN/cm}^2$
Legend		F_y = Yield Strength	F_u = Tensile Strength

TEST SPECIMEN COLLECTION

- The test specimen shall be collected from one of the corners of the HR plate as mentioned in ASTM A6; 2016: Art. 11.3.1
- Test specimen shall be collected before cutting operation. Otherwise after cutting, corner of the original plate won't be traceable anymore.
- One plate can be selected as a random basis for collection of test specimen.
- The orientation of the test specimen shall be transverse to the final direction of rolling of HR plate as mentioned in ASTM A6; 2016; Art 11.2
- One specimen shall be stored as “Umpire Specimen” for a period of one year in sealed condition in order to resolve any dispute raises in future (if any).

TESTING LABORATORY

All tensile tests must be performed at suitably calibrated third- party owned laboratory, such as BUET, MIST, CUET, RUET, KUET, and DUET, unless both parties agree otherwise.

TEST DATA & INTERPRETATION

- Yield strength shall be determined either by 0.2% offset method or by 0.5% extension under load method as mentioned in ASTM A6; Art 10.2
- Yield & Tensile values shall be rounded to the nearest 1Ksi (5Mpa). Other values shall be rounded as per the provisions given in ASTM E29 as mentioned in ASTM A6; 2016, Art. 10.3
- Test results obtained in SI units from the laboratories mentioned in Testing Laboratory clause can be converted into inch-pound units and vice versa only as mentioned in ASTM A370;2016. Art 1.5
- The obtained results can be compared with the relevant specification ASTM A572;2015 and ASTM A6; 2016, to conclude the test result.

Section 05: Steel Work Finish

PRIMARY MEMBERS

All primary members (Column, Rafter, Beam & Joist) will be shot blasted inside the enclosed blasting machine and painted with one coat of red/grey oxide primer.

SECONDARY MEMBERS

All secondary members (Purlin, Girt & Eave strut) shall be cold formed from Galvanized steel coils.

SECTION 06: STANDARD SUPPLY ITEMS

The following are normally supplied unless mentioned otherwise:

1. Anchor bolts for rigid frames, end wall posts & framed wall openings.
2. Eave gutters & downspouts including inlet & outlet on sidewalls or curved eaves at sidewalls with projection.
3. All necessary flashing & trims.
4. Foam closures.
5. Bead mastic for panel end-lap.
6. High strength connection bolts.
7. Sheeting fasteners.
8. Shear studs
9. Rod bracings, other bracings

Section 07: Delivery Programs and Terms

The delivery programs and associated terms shall be clearly defined and agreed upon, in full accordance with the specific requirements set forth by the vendor. These terms will encompass all relevant details, including delivery schedules, timelines, conditions, and any other stipulations as specified by the vendor, ensuring that both parties are aligned on expectations and obligations.

Section 08: QOM

QUANTITY BREAKDOWN

Sl. No.	Description of Item	Unit	Quantity (Approx)	Unit Rate (BDT)	Total Amount (BDT)
01	Pre-fabricated Built-Up sections Material Specification : ASTM A 572M Grade 50 (Fy = 34.5 kN/cm ²)	MT	72.58		
02	M. S. Bracing Material Specification : ASTM A 36 Grade 36 (Fy = 24.8 kN/cm ²)	MT	12.18		
03	Galvanized Nut Bolts and Washers Material Specification: ASTM A 325M Class 8.8	MT	1.70		
04	GP Purlin Material specification : ASTM A 653 Grade 50, Z275	MT	17.55		
05	Surface Preparation, Shot Blasting & Paint Surface Preparation, Shot Blast & One coat grey oxide primer over steel surface at factory Two Coat enamel paint over steel surface at site	MT	84.76		
06	Fasteners	MT	0.04		
07	Installation	MT	104.05		
08	Transportation (Chattogram)	MT	104.05		
Grand Total Cost				BDT	

Section 09: Qualification of Tenderers

The Applicant must meet the following qualification criteria:

- I. A minimum of ten (10) years of experience in similar operations.
- II. Specific experience as a Prime Contractor, 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. 4 (four) crore.
- III. Experience in completing steel structure work for a building with a total built-up area of at least 9,000 square meters.
- IV. The average annual turnover shall be greater than Tk. 3 (three) crore, calculated over the best three (3) years within the last five (5) years.
- V. The minimum amount of liquid assets, i.e., working capital or credit line(s), of the Tenderer shall be Tk. 1.00 (one) crore.
- VI. Proven reputation as a constructor in both the public and private sectors, supported by a detailed company profile, client list, and work accomplishment certificates.
- VII. The applicant must not have any record of contract non-performance in the **last 5 years** from the RFP publication date.
- VIII. All pending litigation must not exceed **15% of the applicant's net worth**.
- IX. At least **1 contract** of similar nature and complexity in **Steel Structure Work**, completed within the last **3 years**.
- X. Applicants must demonstrate: Relevant **professional and technical qualifications**, **Managerial capability**, **A reliable reputation** for contract performance, Adequate and **skilled personnel**
- XI. The successful Applicant, who later becomes the Tenderer, is required to perform the works and services as described in the subsequent Tender.
- XII. 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**
- XIII. **Site Visit:** Applicants are encouraged to personally visit and inspect the Site of Works and its surroundings to gather all necessary information for preparing their application, tender submission, and contract. Access to the site will be permitted by the Employer under the condition that applicants, their personnel, and agents indemnify the Employer against any liability for injury, damage, or loss incurred during the visit. All costs related to the site visit are the responsibility of the applicants.

- XIV. **Applicant Eligibility:** This Invitation for Qualification is open to applicants from all countries except Israel. Eligible applicants may be individuals, companies, or groups such as Joint Ventures, Consortia, or Associations, legally able to enter into contracts. Applicants and their members must have no conflicts of interest, no history of corruption or poor performance, and must not be insolvent or under legal restrictions. They must also be up-to-date with tax and social security obligations. The Employer may request evidence to verify eligibility, which applies to all partners and subcontractors involved.
- XV. **Ethics Policy:** The Employer requires all staff, applicants, suppliers, contractors, and subcontractors to uphold the highest ethical standards during procurement and contract execution. Corrupt, fraudulent, collusive, coercive, and obstructive practices are strictly defined and prohibited. Proposals will be rejected if such unethical behavior is found. Firms or individuals engaged in these practices may be sanctioned, including being declared ineligible for current or future contracts.
- XVI. **Confidentiality and Compliance:** The contractor must keep all AUW information confidential, comply with Bangladesh National Building Code, NFPA standards, and local fire safety regulations, and is responsible for obtaining clearances and ensuring safety during the project.
- XVII. **Litigation History:** A fully settled dispute or litigation is defined as one resolved through the contract's Dispute Resolution Mechanism, with all appeals exhausted.
- XVIII. **Joint Venture, Consortium or Association (JVCA):** Applicants may participate by forming a Joint Venture, Consortium, or Association (JVCA), supported by a legally binding JV agreement or a Letter of Intent. The agreement must specify each partner's work share and be signed by authorized representatives. Partners' capacities can be combined to meet qualification requirements. All JV partners are jointly and severally liable for the contract, and the JV must appoint a representative authorized to act on behalf of all partners. Changes to JV composition are not allowed before contract signing and only permitted afterward under strict conditions. Each partner must submit detailed information as part of the application.
- XIX. **Contents of Application:** Applicants must submit an application including: proof of enrollment in relevant professional or trade organizations; authorization confirming the signatory can commit the applicant; documents proving legal capacity with no court restrictions; evidence that the applicant is not insolvent or under legal restrictions; confirmation that all disputes have been resolved without negatively affecting financial capacity; proof of fulfilling tax and social security obligations; documents establishing eligibility to perform the contract; proof of the origin of materials, equipment, and services; and evidence of meeting minimum qualifications required for the work. Joint ventures or specialized subcontractors must submit agreements or letters of

intent confirming their collaboration.

XX. **Bank Guarantees:** The successful bidder must provide a Performance Bank Guarantee equal to 10% of the contract price from a scheduled bank in Bangladesh, valid until 28 days after the defects liability period or final acceptance. Failure to submit may lead to award cancellation. The guarantee is returned after satisfactory contract completion but can be invoked by AUW if the contractor defaults. If advance payment is made, an Advance Payment Bank Guarantee must be provided for the full amount until recovered. All bank guarantees are payable on demand and remain valid until officially released, regardless of disputes.

XXI. **Liquidated Damages:** If the Contractor fails to complete the work on time, they must pay liquidated damages at 1% of the contract price per week of delay, up to a maximum of 10%. These damages may be deducted from any payments due, including the Performance Guarantee, without affecting the Employer's other contractual rights.

XXII. **a. Termination for Default:**

The Employer may terminate the contract, in whole or in part, if the Contractor fails to start, continue, or complete the work as agreed, or fails to correct breaches or delays after written notice. Upon termination, the Employer may:

- Cancel the contract immediately,
- Hire another contractor at the defaulting contractor's risk and cost,
- Recover all additional costs and damages,
- Forfeit performance guarantees, and
- Restrict the contractor from future contracts.

This termination does not affect other legal remedies available to the Employer.

b. Termination for Convenience:

The Employer may terminate the contract at any time without cause. The Contractor will be paid for:

- Work completed up to the termination date, and
- Reasonable costs for materials or commitments related to the terminated portion.

No compensation is owed for lost profits or unperformed work.

c. Termination for Insolvency or Bankruptcy:

If the Contractor becomes insolvent, bankrupt, or enters receivership/liquidation, the Employer may terminate the contract immediately and recover completion costs from any outstanding payments or guarantees.

d. Termination for Force Majeure:

If a Force Majeure event continues beyond a specified period (e.g., 90 days), either party may terminate the contract with written notice. In such cases:

- Neither party is liable for termination-related damages, and
- The Contractor is entitled to payment for work completed up to the termination date.

XXIII. Effect of Termination:

Termination of the contract does not affect the Employer's other legal rights or remedies. The Contractor's obligations related to confidentiality, indemnity, and warranty will remain in effect even after termination.

XXIV. Descope and Backcharge:

The Employer may reduce or modify the scope of work by written notice. Upon notice, the Contractor must stop work on the affected items, submit a revised plan within 7 working days, and hand over any related deliverables. The Contract Price will be adjusted to reflect the reduced scope, including deduction of payments for descope items and recovery of any unapproved costs incurred by the Contractor.

The Employer may backcharge the Contractor for costs arising from non-performance, defects, delays, or failure to meet contract requirements. This includes expenses for corrective work done by the Employer or third parties. Backcharge amounts may be deducted from payments or must be paid by the Contractor within 15 days of notice. No time extensions or additional payments will be granted for backcharged items.

The Employer will issue a written notice detailing the descope or backcharged items, reasons, amounts (if applicable), and deadlines. The Contractor must acknowledge and comply promptly.

XXV. Employer's Entitlement to Remedy Default:

If the Contractor fails to perform, fix defects, or complete work after being notified, the Employer may carry out the necessary work using others at the Contractor's cost. These costs will be treated as a debt owed by the Contractor and can be recovered through payment deductions. This action does not reduce the Contractor's responsibilities under the contract.

XXVI. Disputes:

The Contractor will not be paid for extra work unless it is authorized in writing by AUW and the contract is formally amended. Any disputes must first be resolved through good-faith negotiation. If unresolved within 30 days, the matter will be settled through binding arbitration in Chattogram, Bangladesh, under Bangladeshi law. Arbitration will be the sole and final method of dispute resolution.

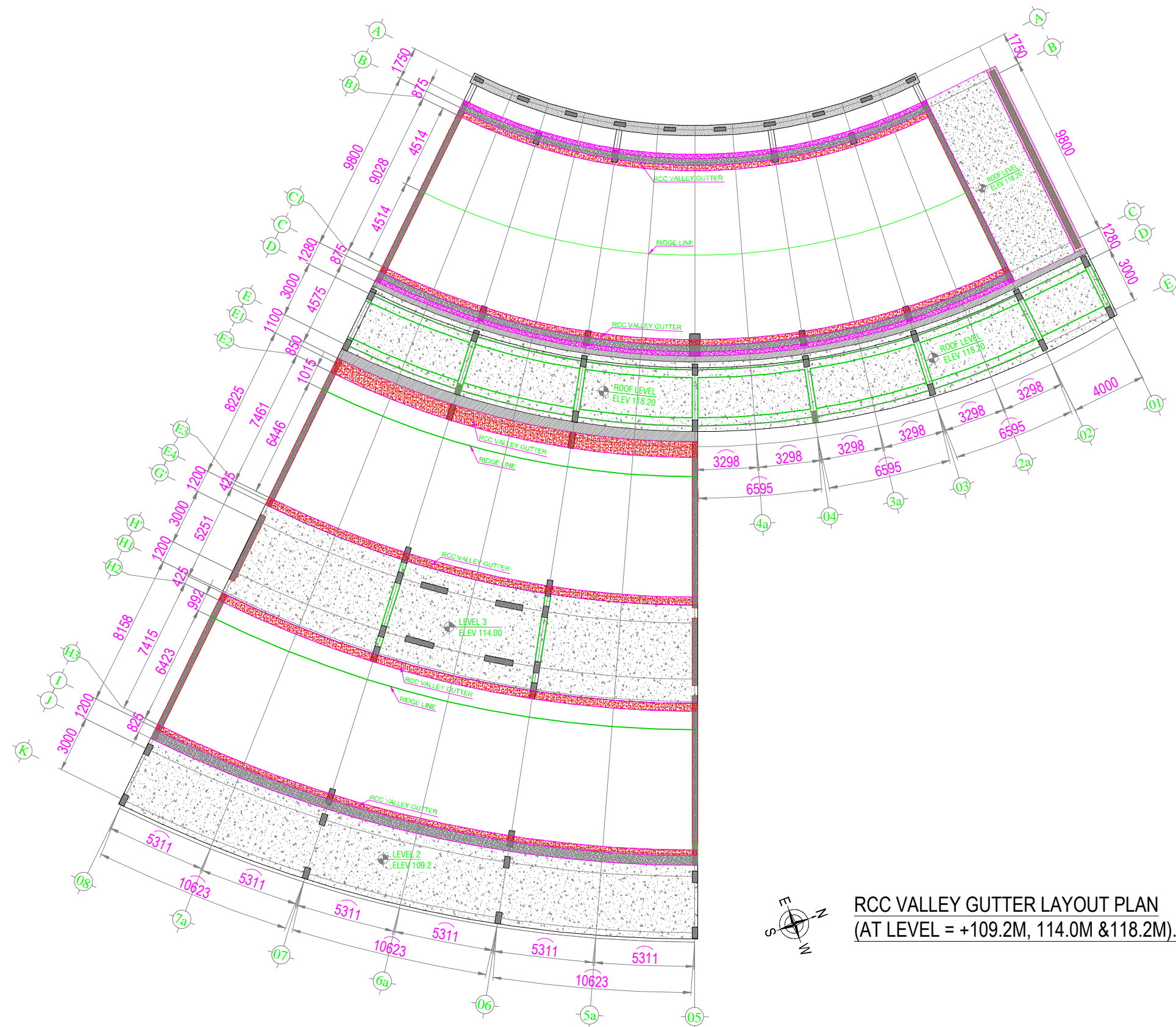
Section 10: General Note

- Price will be adjusted in per MT according to the final design and BOM which will be mentioned in Work Order.
- Weight limit varies within $\pm 10\%$. The price is based on the primary estimated weight of the materials. It could change with detail breakdown weight after final design.
- Contractor to verify the provided design and if necessary adjustment to be done accordingly.
- During concreting time, Anchor bolt & other required supports post installation accuracy must be maintained by Prefabricator contractor with their own responsibility
- Prefabricator contractor will submit the 3 sets of shop drawing in A1
- They will follow industry safety protocol, safe erection of material without damaging any properties. safety engineer presence is must at site (NEBOSH certified)
- Post Installation Servicing details will be mentioned
- Warranty period of material will be mentioned
- Prefabricator contractor must prepare the shop drawing and take approval it from Main Roofing contractor (VM Zinc)
- VM zinc may need coordination with prefabricated contractor during roofing work, prefabricated contractor must coordinate & any additional work in this regards will be regarded as new scope.
- Method statement & Safe erection plan has to submit prior execution of work
- All necessary post-handover documents will submit such as product warranty certificate, material test report, spare part list, maintenance manual etc.
- Details work schedule (recommended bar chart) has to be submit prior execution work.
- **Award of Contract:** AUW reserves the right to award the contract to one or more bidders. Final quantities may be divided among the successful bidders, at the sole discretion of AUW.
- **Right to Cancel or Reject:** AUW reserves the right to cancel the bidding process at any stage—before or after receipt of bids, or after opening of bids—and may call for fresh bids. AUW also reserves the right to reject any bid without assigning any reason.
- **Incomplete Bids:** Any bid that is incomplete in any respect will not be considered.
- **Clarifications:** Any request for clarification regarding this RFP must be submitted to the undersigned no later than **25 November 2025, 11:01 AM**. All clarifications received will be shared with all participating bidders without disclosing the source of the inquiry.

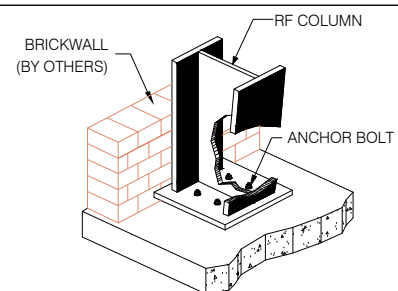
Section 11: Drawing design is in Annexure I

Annexure I

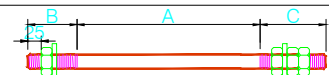
PROPOSAL DRAWING : QB_099_25_R01_B03.
CLIENT NAME : ASIAN UNIVERSITY FOR WOMEN.
PROJECT NAME : ACADEMIC BUILDING-03.
BUILDING NO. : 01.
LOCATION : PAHARTOLI, CHITTAGONG.



RCC VALLEY GUTTER LAYOUT PLAN
(AT LEVEL = +109.2M, 114.0M & 118.2M).



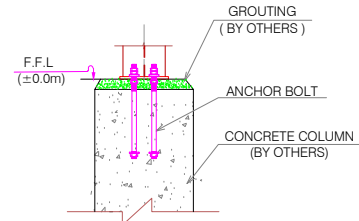
TYPICAL RF COLUMN BASE DETAIL



ANCHOR ROD (GRADE-36/ASTM A36)

PART MARK	SIZE	Min. Washer Size (mm) (DIA)	Min. Washer Thick. (mm)	Hex-Nut Size (mm)	Hex-Nut thick. (mm)	Anchor Rod Dimension (mm)			
						A (mm)	B (mm)	C (mm)	Total (mm)
AB-S24	M24	75	10	42/48	25	650	75	150	875
AB-S30	M30	75	12	46/54	30	795	80	200	1075
AB-S38	M38	90	12	60/70	38	1085	90	250	1425

TYPICAL ANCHOR BOLT



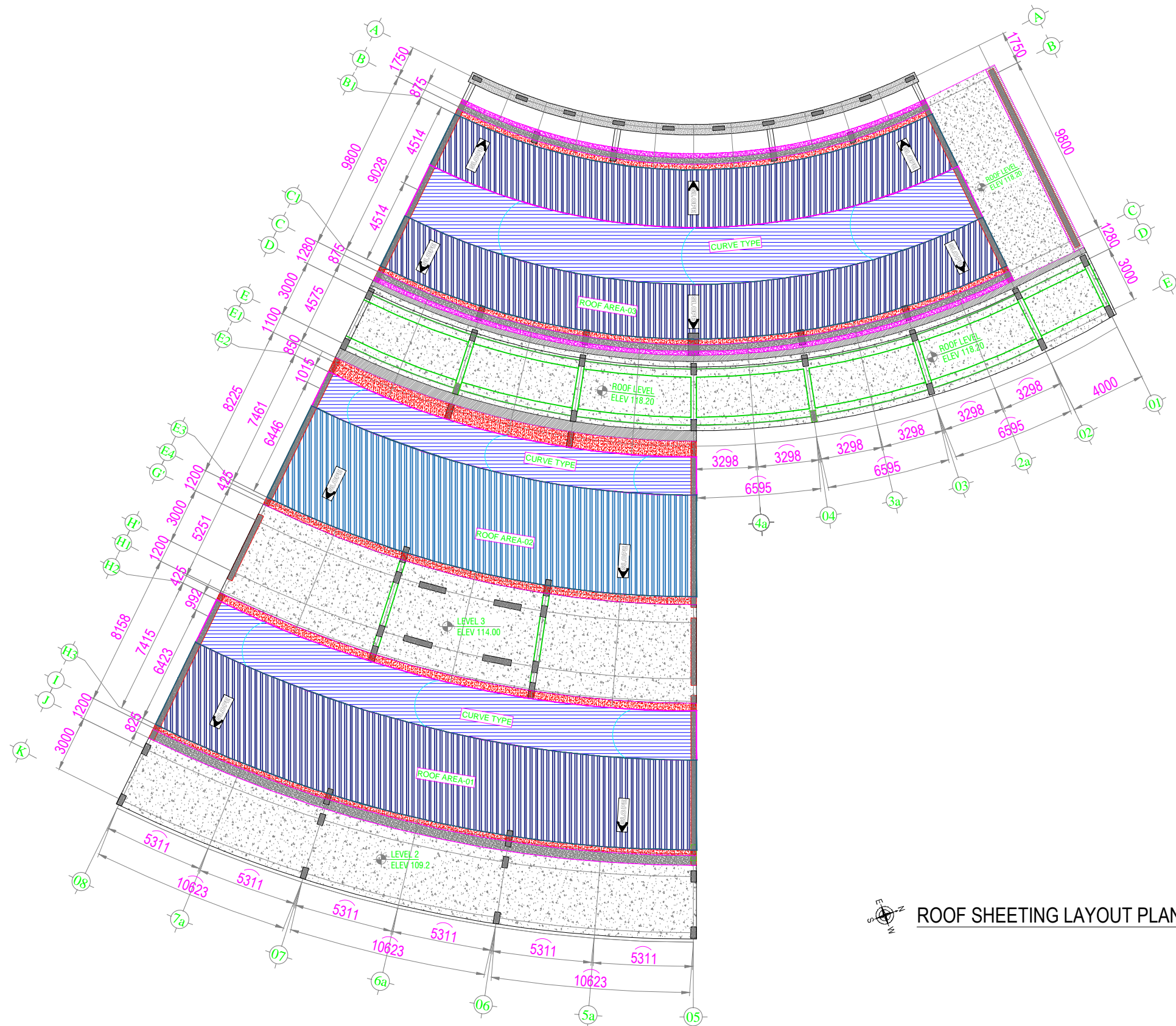
APPLICABLE CODES IN PEB STEEL

1. BNBC - 2020
2. BNBC - 2006
3. IBC - 2012
4. MBMA - 2006
5. ASCE 7 - 05
6. AISC 360 - 05
7. AWS - D1.1 - 2010
8. AISI - 2007

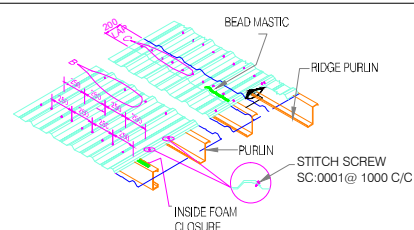
NOTE:
a. All dimensions are in millimeter.
b. This is a proposal drawing only, Not for construction.

CLIENTS





ROOF SHEETING LAYOUT PLAN.



SHEETING DETAILS
(FOR PE 1000 PANEL @ ROOF)

TYPICAL SHEETING DETAILS

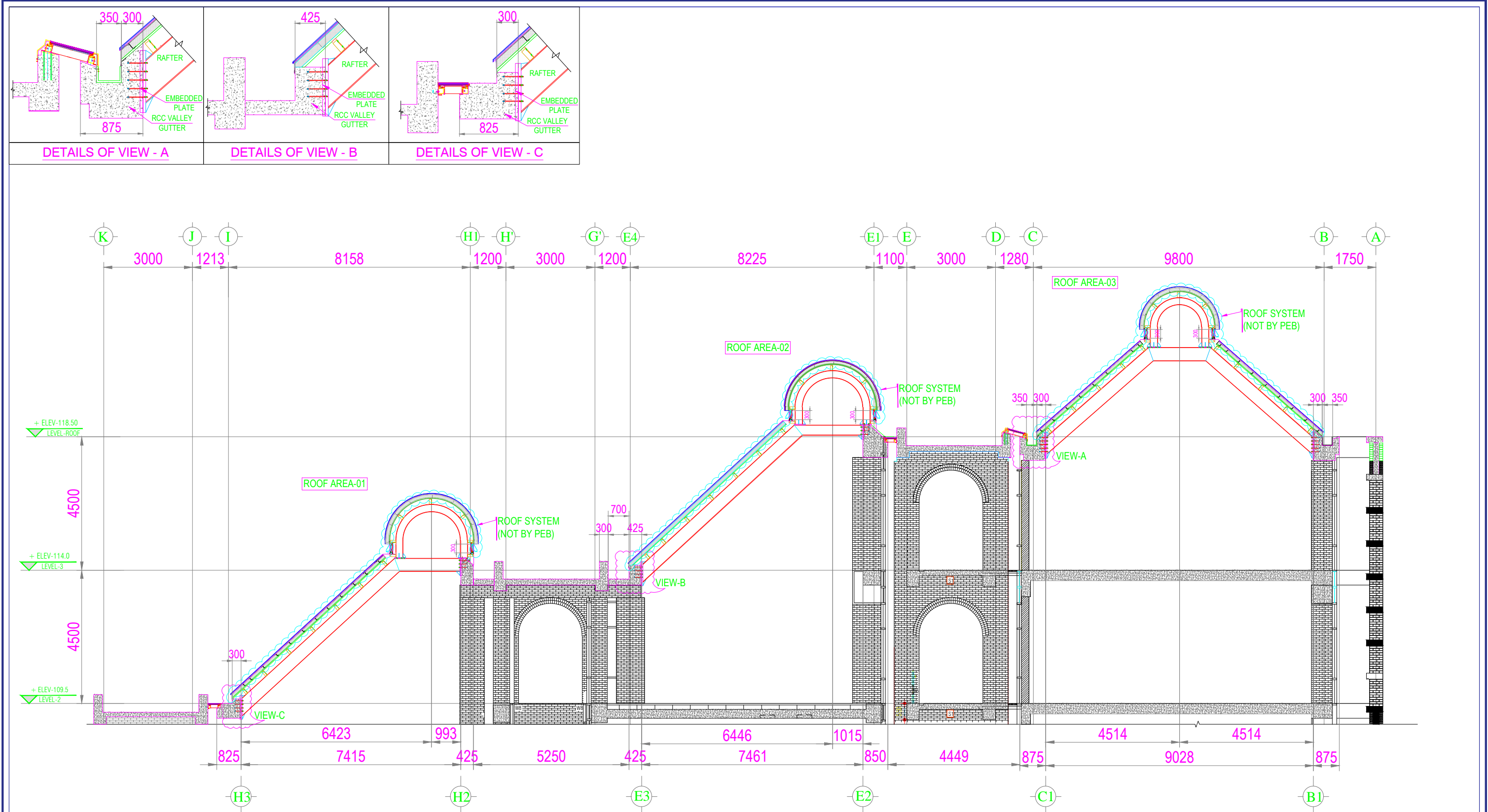
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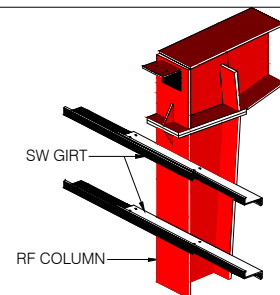
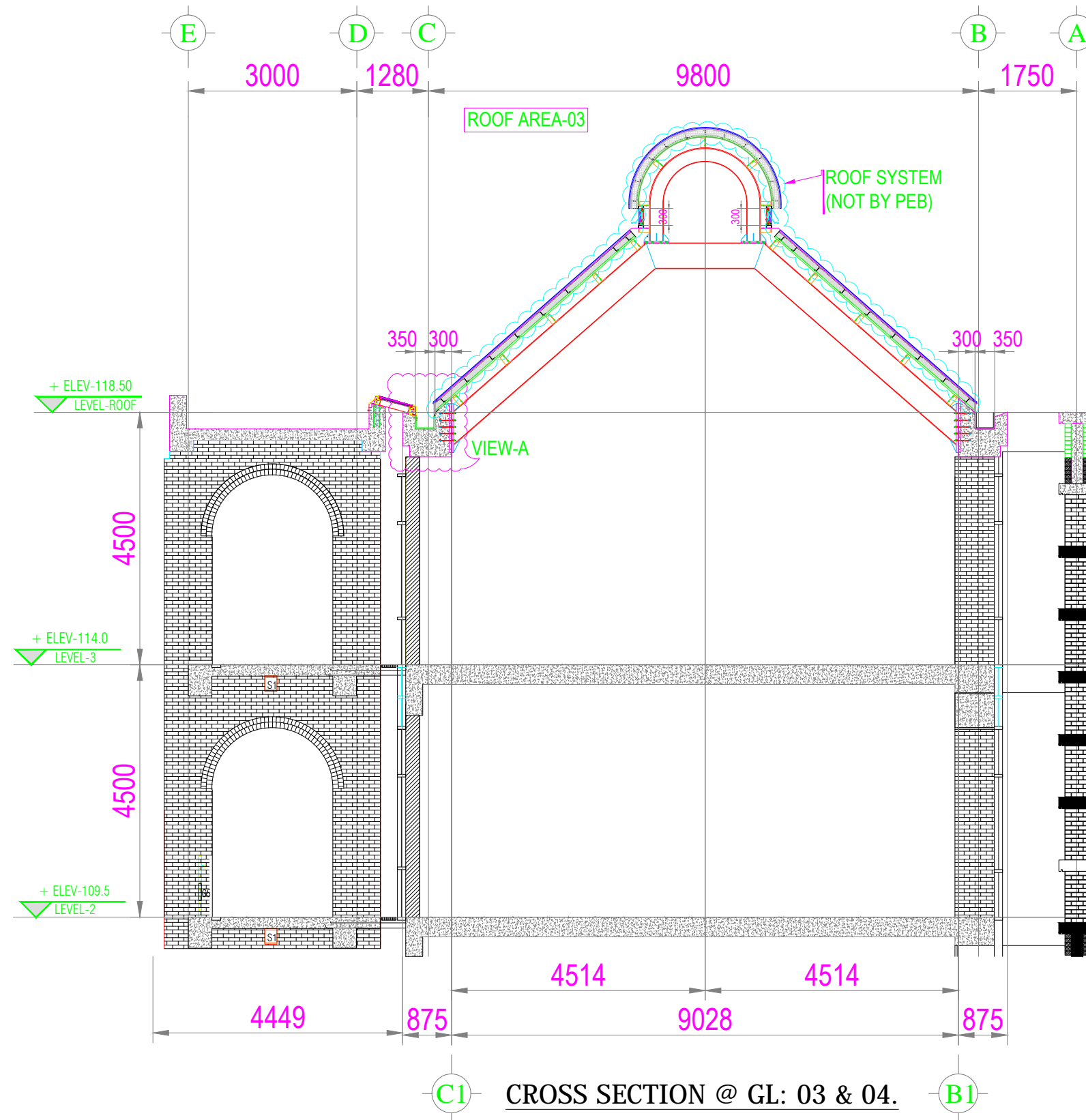
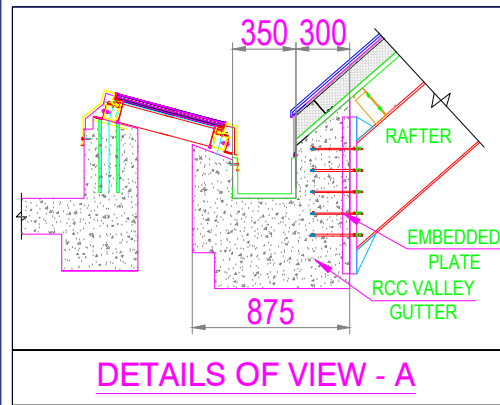
CLIENTS



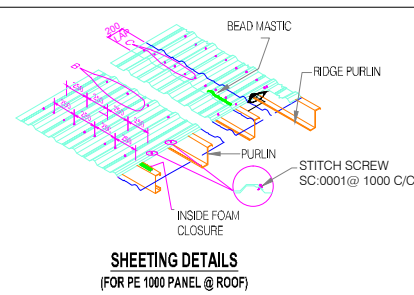


CROSS SECTION @ GL: 06 & 07.

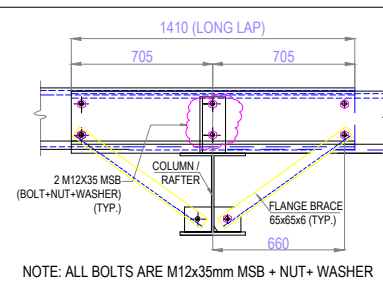
<p>TYPICAL SW GIRT & EAVE STRUT CONNECTION</p>	<p>TYPICAL SHEETING DETAILS</p>	<p>TYPICAL FLANGE STAY</p>	<p>APPLICABLE CODES</p> <ol style="list-style-type: none"> 1. BNBC - 2020 2. BNBC - 2006 3. IBC - 2012 4. MBMA - 2006 5. ASCE 7 - 05 6. AISC 360 - 05 7. AWS - D1.1 - 2010 8. AISI - 2007 <p>NOTE: a. All dimensions are in millimeter. b. This is a proposal drawing only, Not for construction.</p>	<p>CLIENTS</p>
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TYPICAL SW GIRT & EAVE STRUT CONNECTION



TYPICAL SHEETING DETAILS



TYPICAL FLANGE STAY

APPLICABLE CODES

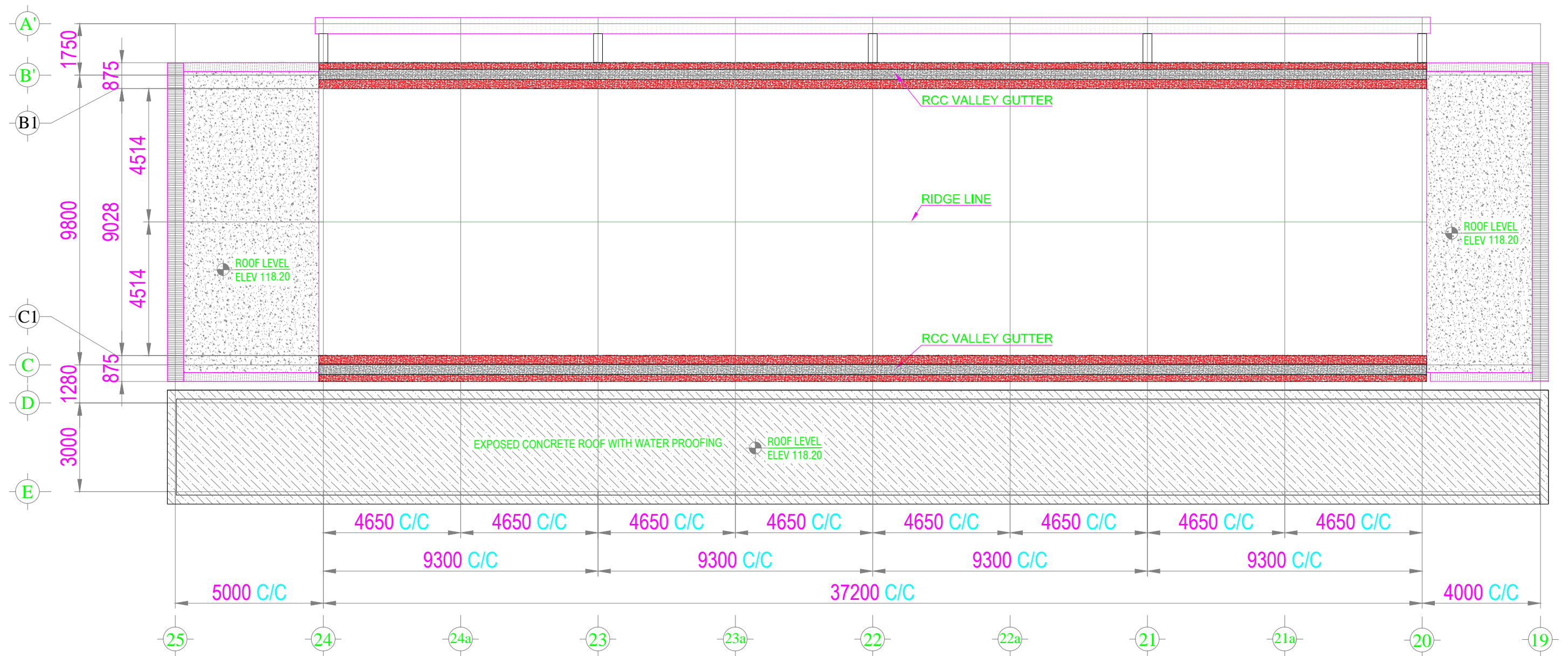
1. BNBC - 2020
2. BNBC - 2006
3. IBC - 2012
4. MBMA - 2006
5. ASCE 7 - 05
6. AISC 360 - 05
7. AWS - D1.1 - 2010
8. AISI - 2007

NOTE:
a. All dimensions are in millimeter.
b. This is a proposal drawing only,
Not for construction.

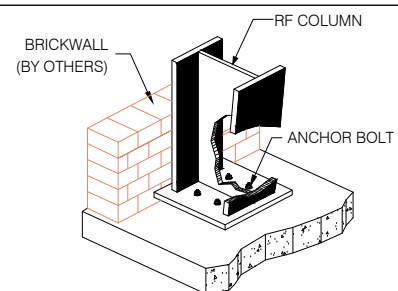
CLIENTS



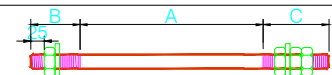
PROPOSAL DRAWING : QB_099_25_R01_B01.
CLIENT NAME : ASIAN UNIVERSITY FOR WOMEN.
PROJECT NAME : ACADEMIC BUILDING-01.
BUILDING NO. : 01.
LOCATION : PAHARTOLI, CHITTAGONG.



RCC VALLEY GUTTER LAYOUT PLAN (AT LEVEL = +118.2M).



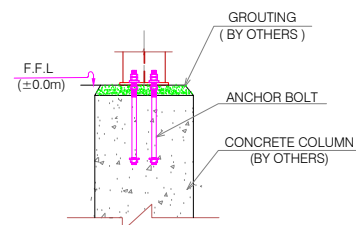
TYPICAL RF COLUMN BASE DETAIL



ANCHOR ROD (GRADE-36/ASTM A36)

PART MARK	SIZE	Min. Washer Size (mm) (DIA)	Min. Washer Thick. (mm)	Hex-Nut Size (mm)	Hex-Nut thick. (mm)	Anchor Rod Dimension (mm)			
						A (mm)	B (mm)	C (mm)	Total (mm)
AB-S24	M24	75	10	42/48	25	650	75	150	875
AB-S30	M30	75	12	46/54	30	795	80	200	1075
AB-S38	M38	90	12	60/70	38	1085	90	250	1425

TYPICAL ANCHOR BOLT



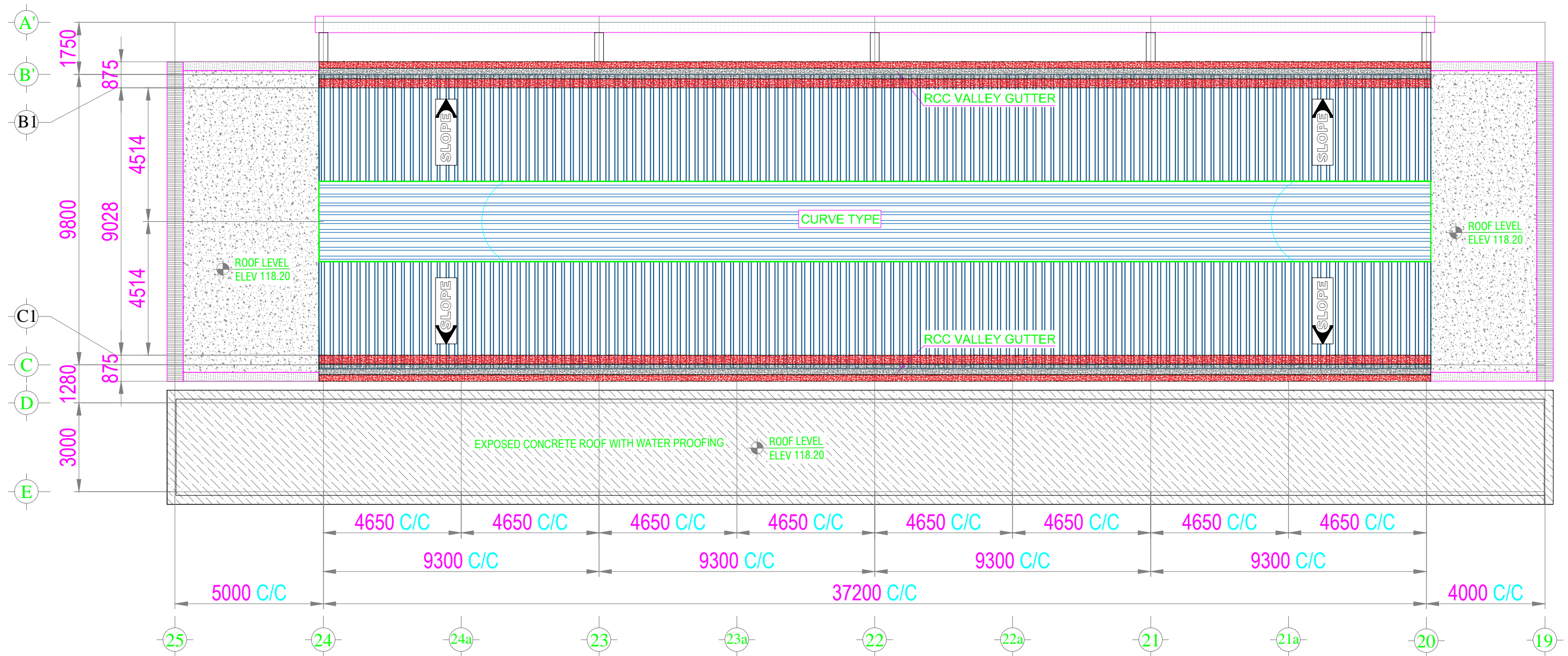
APPLICABLE CODES IN

1. BNBC - 2020
2. BNBC - 2006
3. IBC - 2012
4. MBMA - 2006
5. ASCE 7 - 05
6. AISC 360 - 05
7. AWS - D1.1 - 2010
8. AISI - 2007

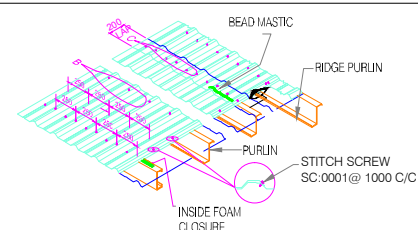
NOTE:
a. All dimensions are in millimeter.
b. This is a proposal drawing only, Not for construction.

CLIENTS





ROOF SHEETING LAYOUT PLAN.



TYPICAL SHEETING DETAILS

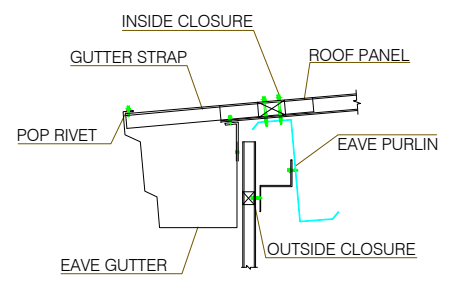
APPLICABLE CODES IN

1. BNBC - 2020
2. BNBC - 2006
3. IBC - 2012
4. MBMA - 2006
5. ASCE 7 - 05
6. AISC 360 - 05
7. AWS - D1.1 - 2010
8. AISI - 2007

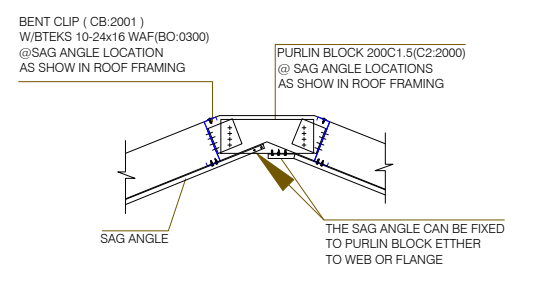
NOTE:
a. All dimensions are in millimeter.
b. This is a proposal drawing only, Not for construction.

CLIENTS

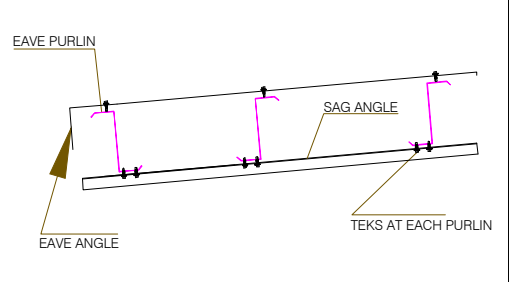




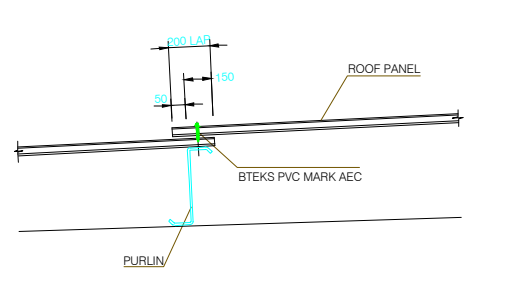
INSIDE CLOSURE
GUTTER STRAP
ROOF PANEL
POP RIVET
EAVE PURLIN
EAVE GUTTER
OUTSIDE CLOSURE



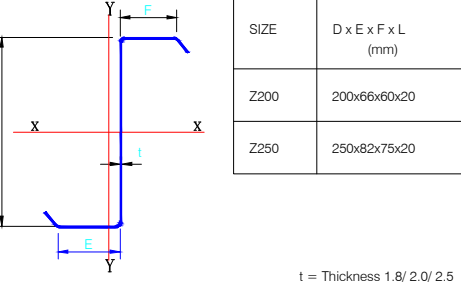
BENT CLIP (CB.2001)
W/BTEKS 10-24x16 WAF(BO.0300)
@SAG ANGLE LOCATION
AS SHOW IN ROOF FRAMING
PURLIN BLOCK 200C1.5(C2.2000)
@SAG ANGLE LOCATIONS
AS SHOW IN ROOF FRAMING
SAG ANGLE
THE SAG ANGLE CAN BE FIXED
TO PURLIN BLOCK EITHER
TO WEB OR FLANGE



EAVE PURLIN
SAG ANGLE
EAVE ANGLE
TEKS AT EACH PURLIN

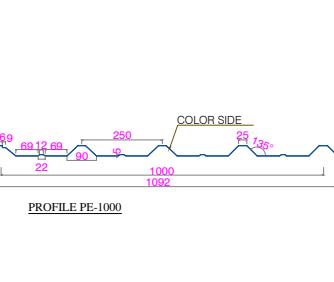


ROOF PANEL
PURLIN
BTEKS PVC MARK AEC

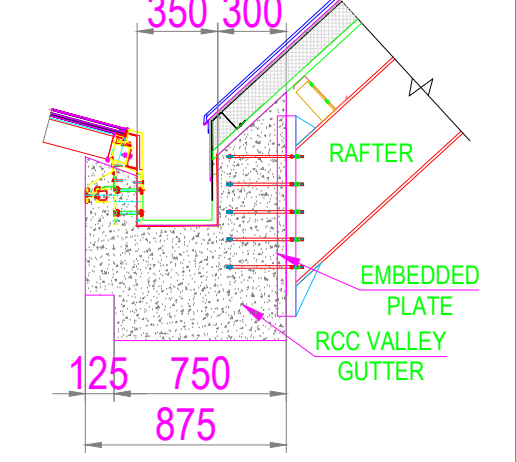


SIZE	D x E x F x L (mm)
Z200	200x66x60x20
Z250	250x82x75x20

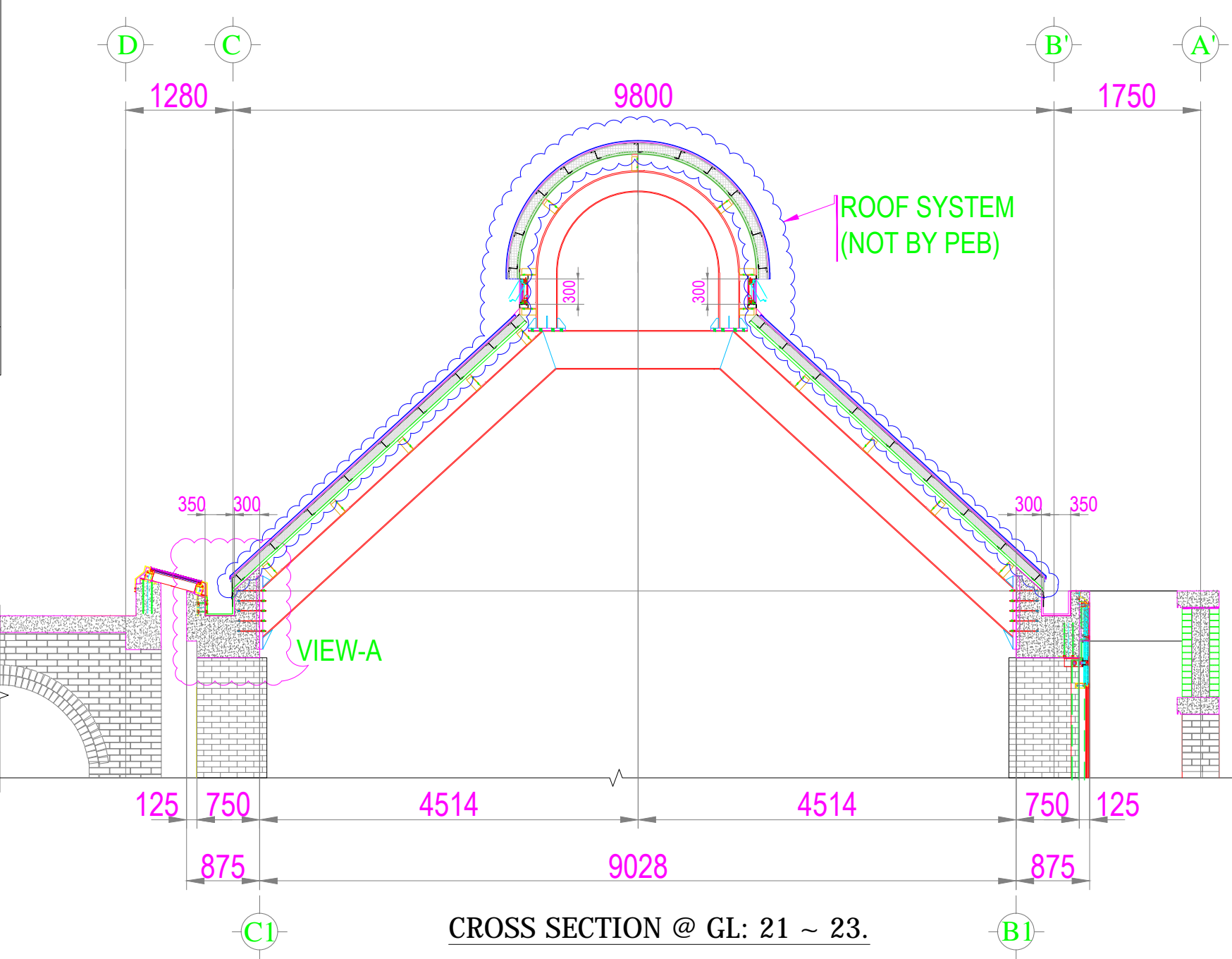
t = Thickness 1.8/ 2.0/ 2.5



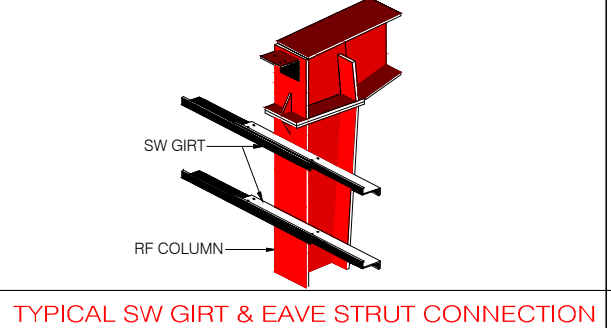
PROFILE PE-1000
COLOR SIDE



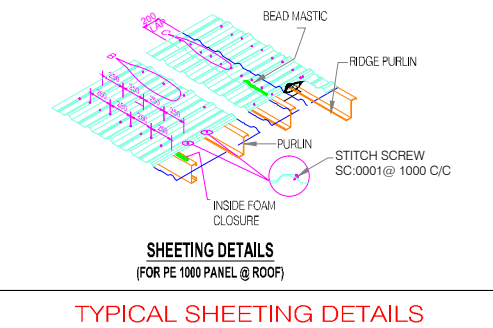
350 300
125 750 875
RAFTER
EMBEDDED PLATE
RCC VALLEY GUTTER
DETAILS OF VIEW - A



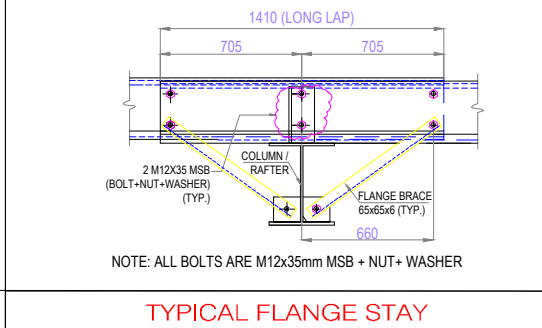
1280 9800 1750
350 300
125 750 4514 9028 875
VIEW-A
ROOF SYSTEM (NOT BY PEB)
CROSS SECTION @ GL: 21 ~ 23.



SW GIRT
RF COLUMN
TYPICAL SW GIRT & EAVE STRUT CONNECTION



BEAD MASTIC
RIDGE PURLIN
PURLIN
STITCH SCREW SC.0001 @ 1000 C/C
INSIDE FOAM CLOSURE
SHEETTING DETAILS (FOR PE 1000 PANEL @ ROOF)
TYPICAL SHEETTING DETAILS




1410 (LONG LAP)
705 705
660
2 M12x35 MSB (BOLT+NUT+WASHER) (TYP.)
COLUMN / RAFTER
FLANGE BRACE 65x65x6 (TYP.)
NOTE: ALL BOLTS ARE M12x35mm MSB + NUT+ WASHER
TYPICAL FLANGE STAY

APPLICABLE CODES IN:

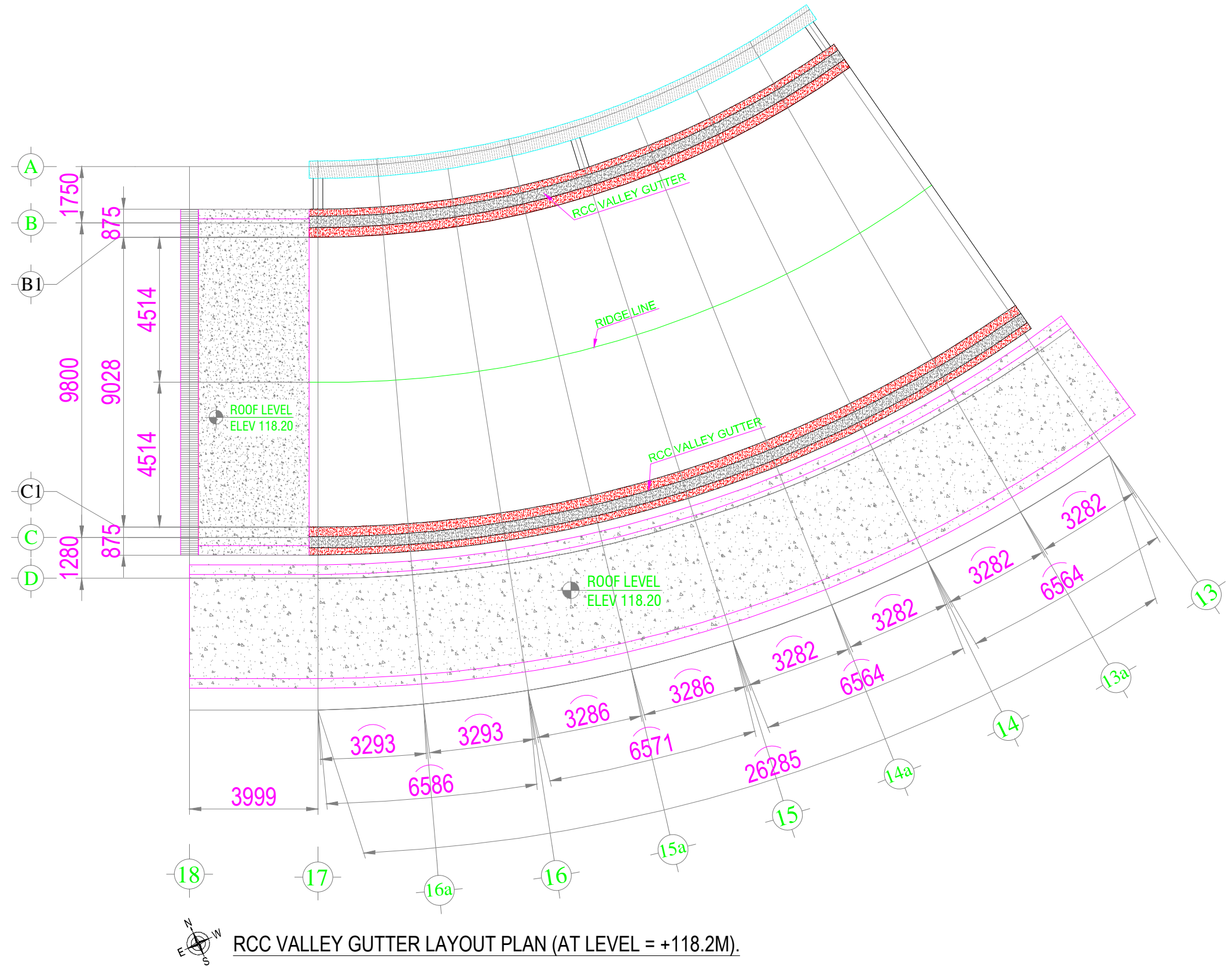
1. BNBC - 2020
2. BNBC - 2006
3. IBC - 2012
4. MBMA - 2006
5. ASCE 7 - 05
6. AISC 360 - 05
7. AWS - D1.1 - 2010
8. AISI - 2007

NOTE:
a. All dimensions are in millimeter.
b. This is a proposal drawing only, Not for construction.

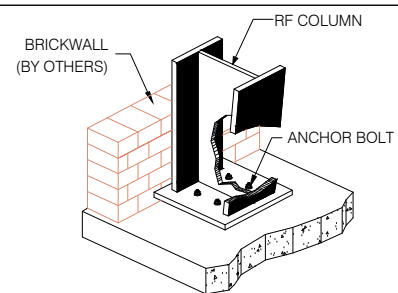
CLIENTS



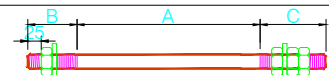
PROPOSAL DRAWING : QB_099_25_R01_B02.
CLIENT NAME : ASIAN UNIVERSITY FOR WOMEN.
PROJECT NAME : ACADEMIC BUILDING-02.
BUILDING NO. : 01.
LOCATION : PAHARTOLI, CHITTAGONG.



RCC VALLEY GUTTER LAYOUT PLAN (AT LEVEL = +118.2M).

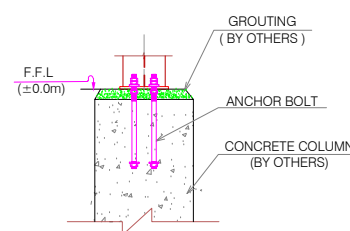


TYPICAL RF COLUMN BASE DETAIL



PART MARK	SIZE	ANCHOR ROD (GRADE-36/ASTM A36)							
		Min. Washer Size (mm) (DIA)	Min. Washer Thick. (mm)	Hex-Nut Size (mm)	Hex-Nut thick. (mm)	Anchor Rod Dimension (mm)			
						A (mm)	B (mm)	C (mm)	Total (mm)
AB-S24	M24	75	10	42/48	25	650	75	150	875
AB-S30	M30	75	12	46/54	30	795	80	200	1075
AB-S38	M38	90	12	60/70	38	1085	90	250	1425

TYPICAL ANCHOR BOLT



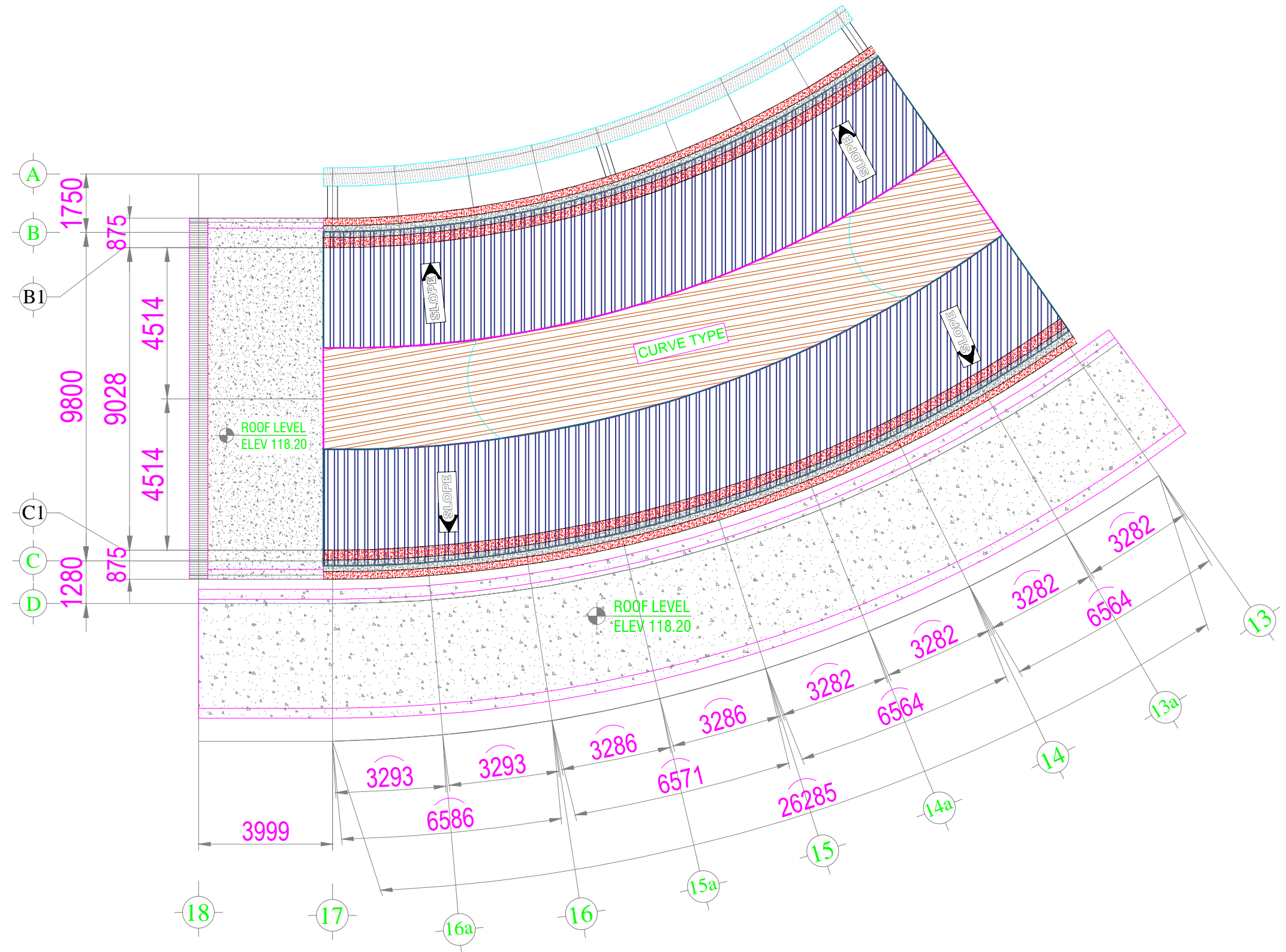
APPLICABLE CODES IN I

1. BNBC - 2020
2. BNBC - 2006
3. IBC - 2012
4. MBMA - 2006
5. ASCE 7 - 05
6. AISC 360 - 05
7. AWS - D1.1 - 2010
8. AISI - 2007

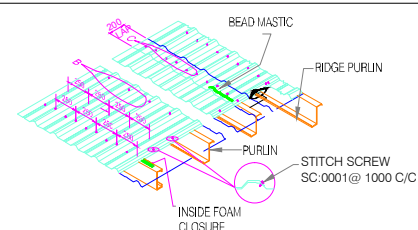
NOTE:
a. All dimensions are in millimeter.
b. This is a proposal drawing only, Not for construction.

CLIENTS





ROOF SHEETING LAYOUT PLAN.



TYPICAL SHEETING DETAILS

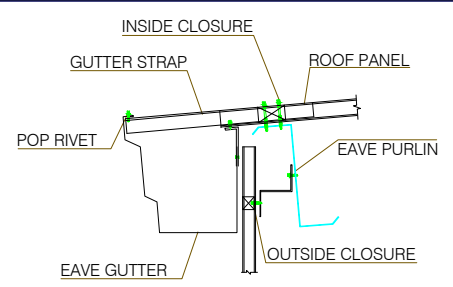
APPLICABLE CODES IN

1. BNBC - 2020
2. BNBC - 2006
3. IBC - 2012
4. MBMA - 2006
5. ASCE 7 - 05
6. AISC 360 - 05
7. AWS - D1.1 - 2010
8. AISI - 2007

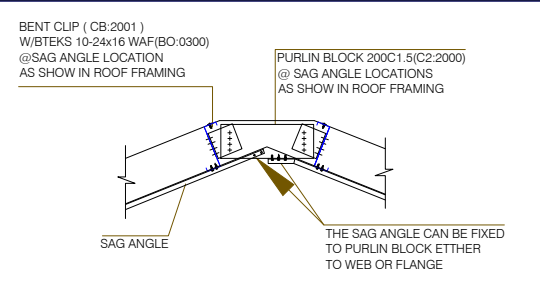
NOTE:
a. All dimensions are in millimeter.
b. This is a proposal drawing only, Not for construction.

CLIENTS

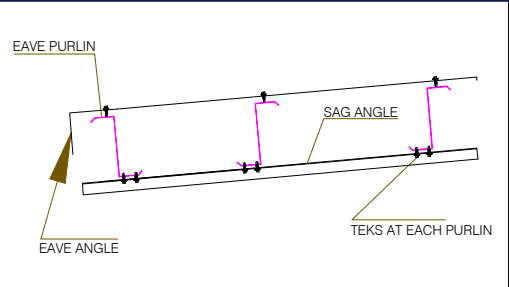




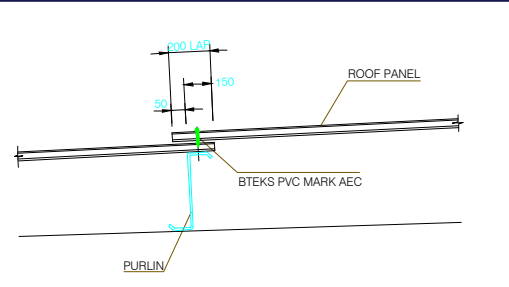
EAVE GUTTER - WALL PANEL



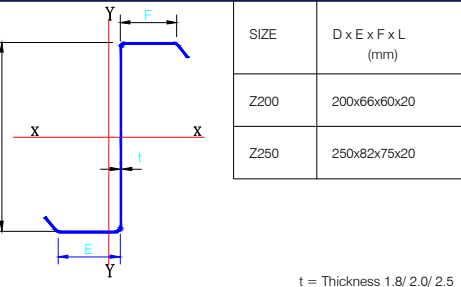
SAG ANGLE @ RIDGE



SAG ANGLE DETAIL - SCREW ROOF



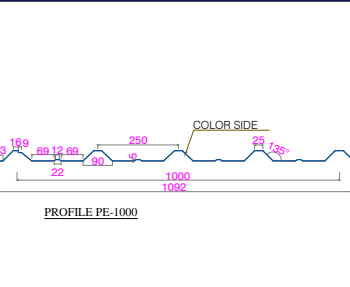
END LAP DETAIL



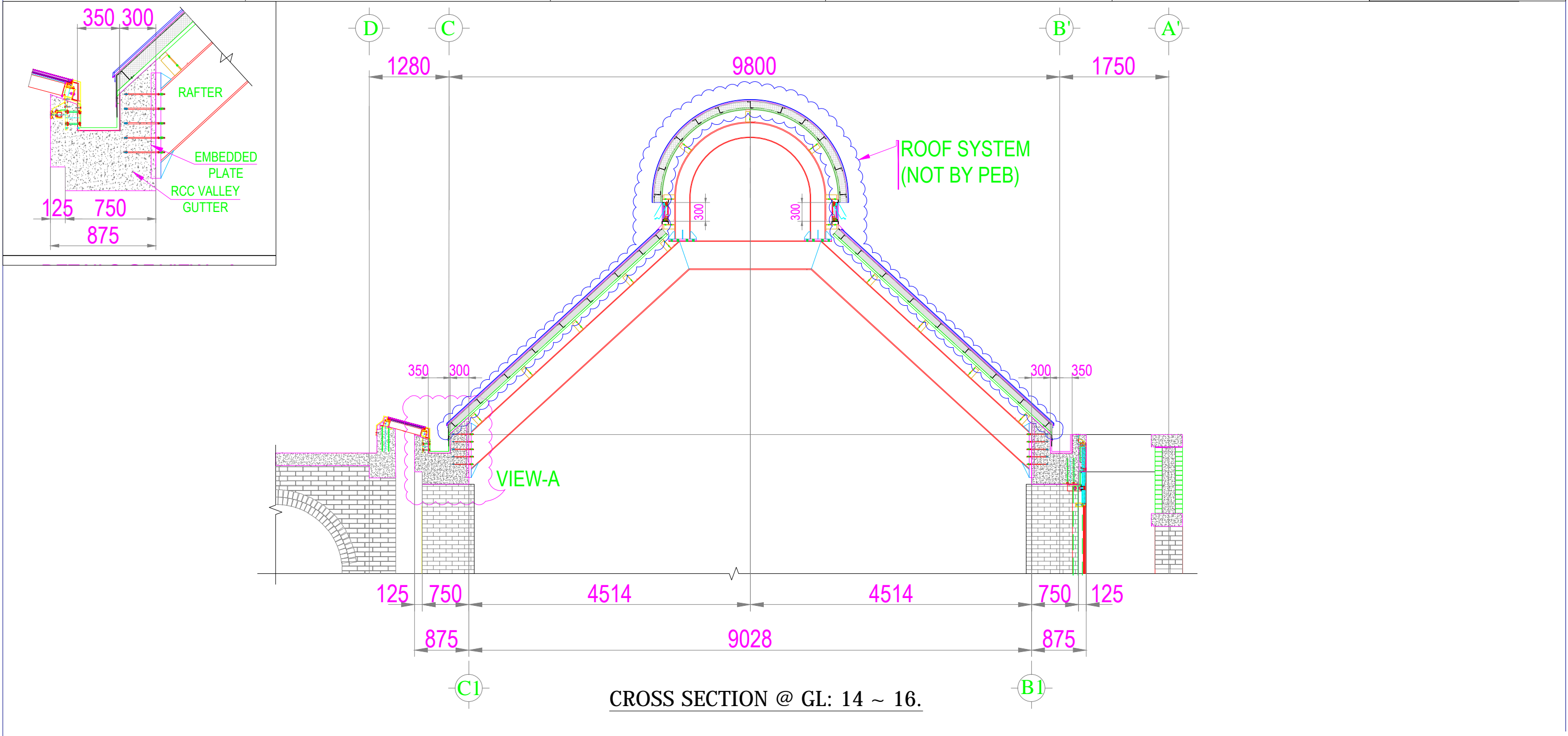
PURLIN DETAIL

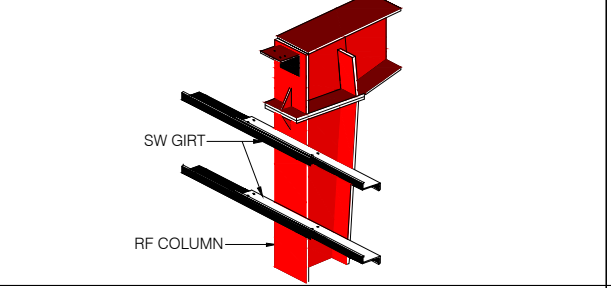
SIZE	D x E x F x L (mm)
Z200	200x66x60x20
Z250	250x82x75x20

t = Thickness 1.8/ 2.0/ 2.5

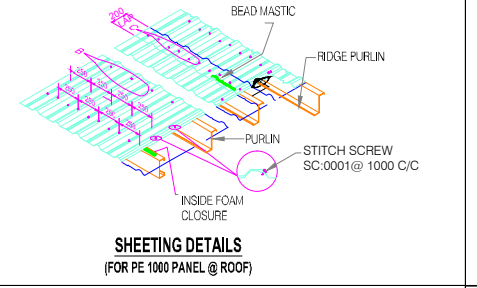


WALL SHEET DETAIL

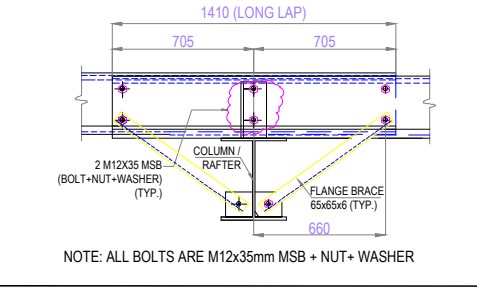




TYPICAL SW GIRT & EAVE STRUT CONNECTION



TYPICAL SHEETING DETAILS



TYPICAL FLANGE STAY

APPLICABLE CODES

1. BNBC - 2020
2. BNBC - 2006
3. IBC - 2012
4. MBMA - 2006
5. ASCE 7 - 05
6. AISC 360 - 05
7. AWS - D1.1 - 2010
8. AISI - 2007

NOTE:
a. All dimensions are in millimeter.
b. This is a proposal drawing only, Not for construction.

CLIENTS

