

Government of Nepal

Ministry of Education, Science and Technology

Center For Education And Human Resources Development

Sanothimi, Bhaktapur



Type Design of School Building For Himalayan/Hilly Region

2 CLASSROOMS

STRUCTURAL ANALYSIS AS PER REVISED CODE-NBC

ARCHITECTURE

A1-GROUND FLOOR PLAN
A2-ROOF PLAN
A3-ELEVATION
A4- ELEVATION
A5- SECTION& SCHEDULE

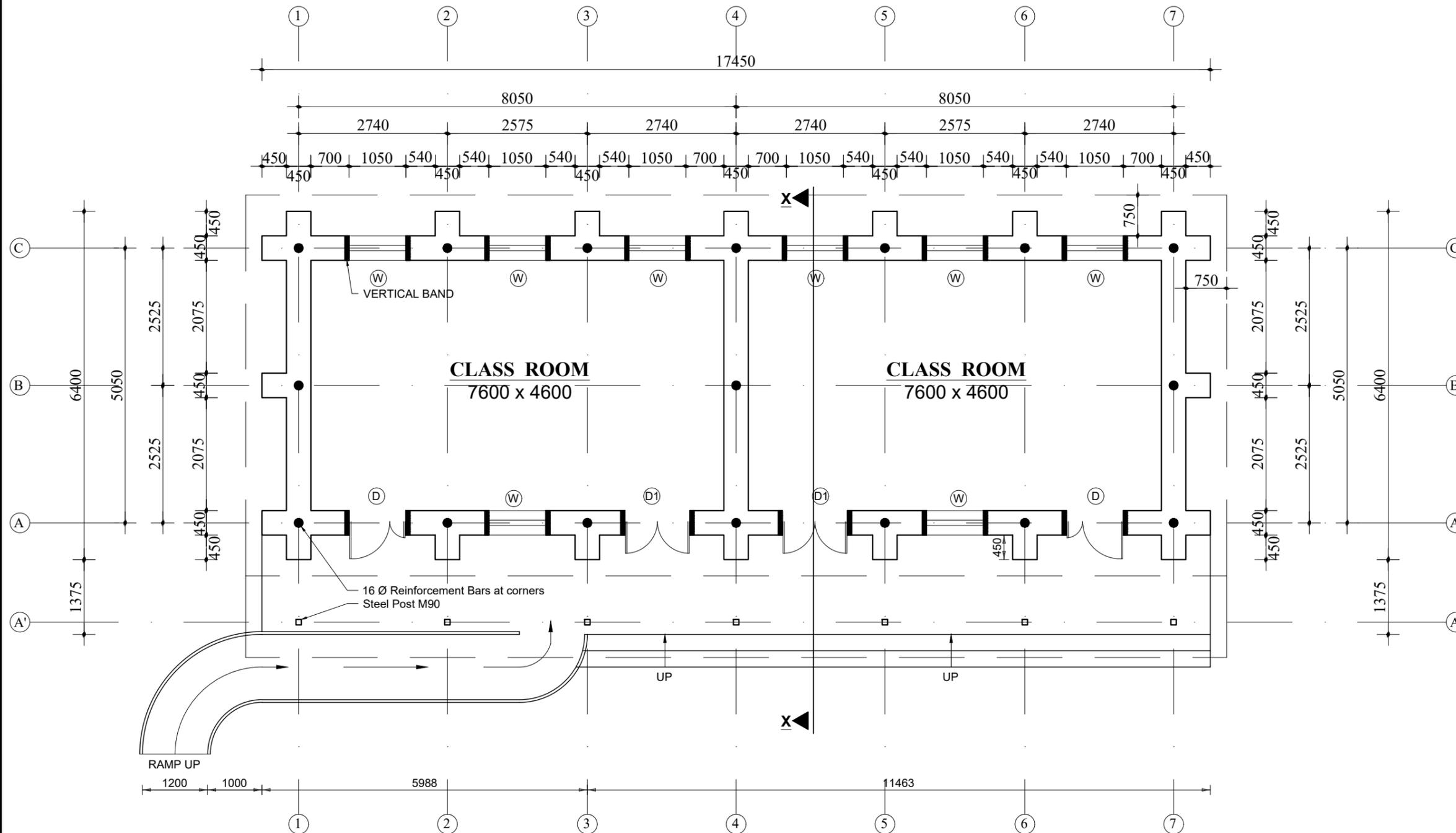
STRUCTURE

S1-GENERAL NOTES
S2-TRENCH PLAN
S3-FOOTING SECTION
S4-DETAILED SECTION
S5- TYPE A SECTION
S6- TYPE A SECTION DETAIL
S7- TYPE B SECTION
S8- TYPE B SECTION DETAIL

DATE -2022-04-03

NOTE:-
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FLOOR PLAN

PROJECT:-
 2 CLASSROOM -TYPE DESIGN FOR HIMALAYAN/HILLY REGION

CONSULTANT
 ALTIUS DESIGN PVT LTD

ARCHITECTURAL DRAWINGS PROVIDED BY:-
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SHEET TITLE:-
 GROUND FLOOR PLAN

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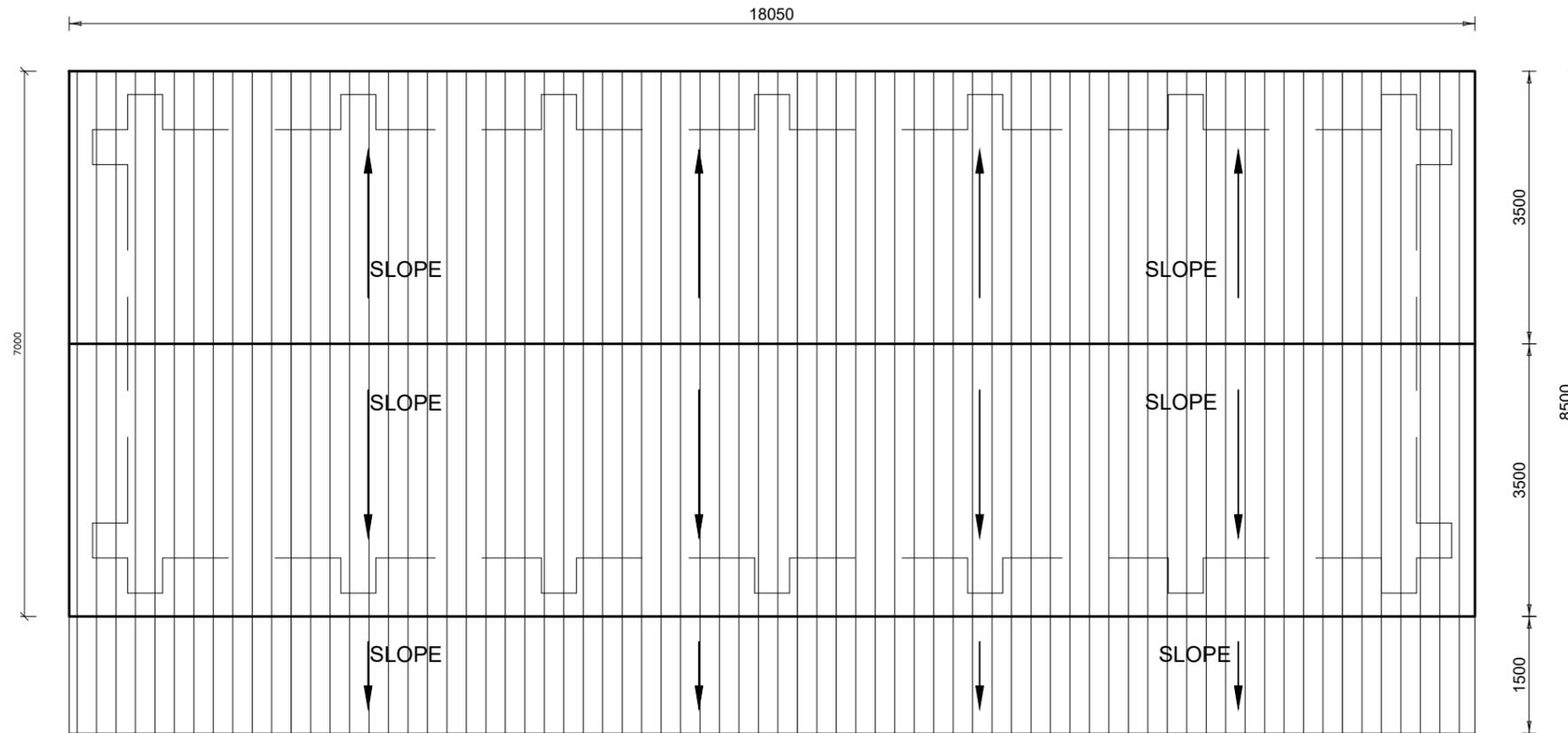
SHEET.No
A-1

PAPER SIZE-A3
 SCALE:- 1:100
 DATE:- 2078

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ROOF PLAN

PROJECT:-
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SHEET TITLE:-
 ROOF PLAN

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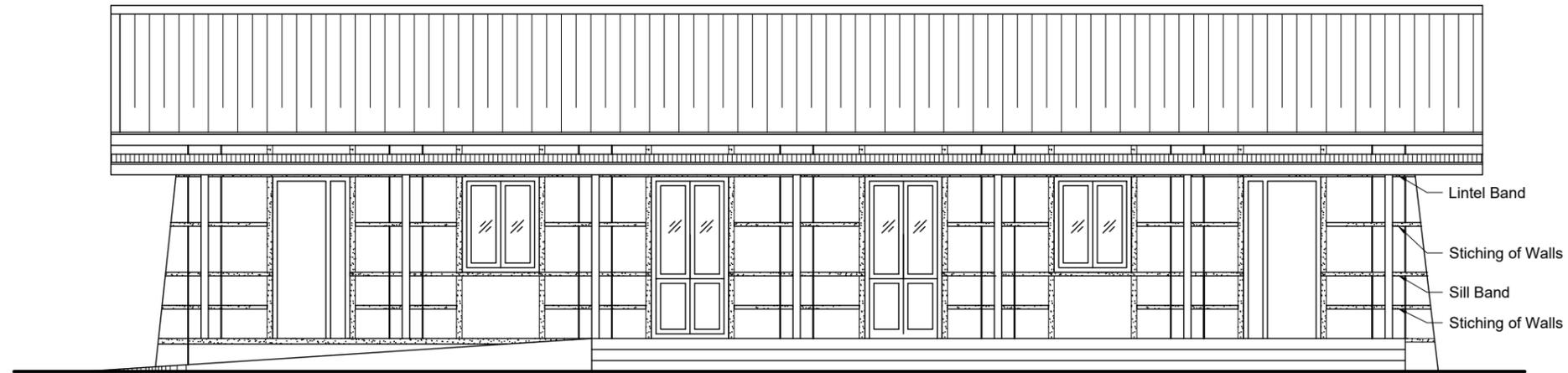
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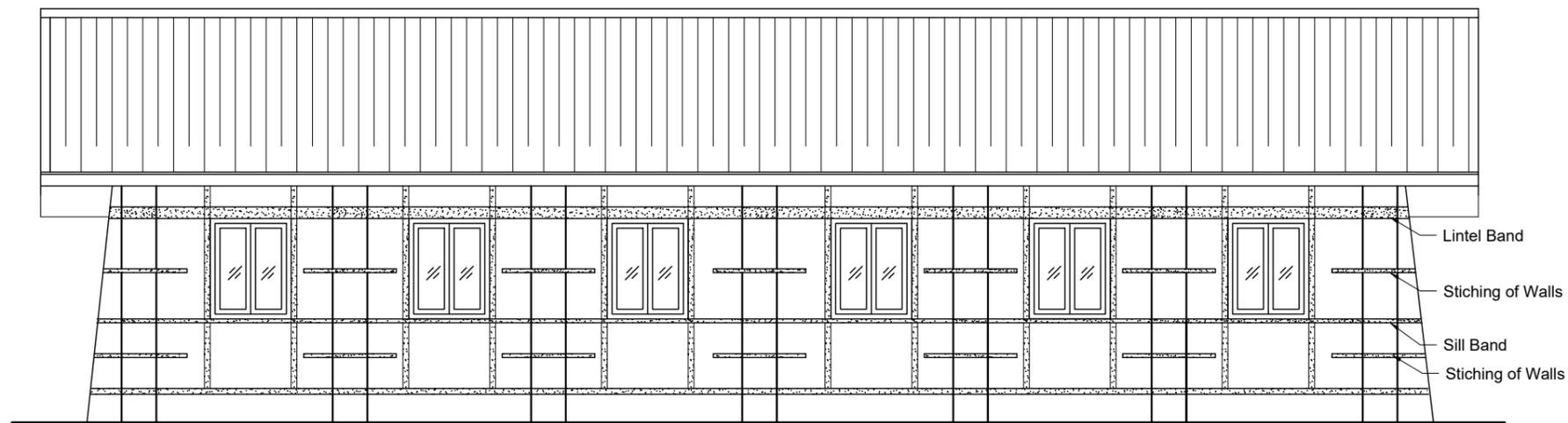
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FRONT ELEVATION



BACK ELEVATION

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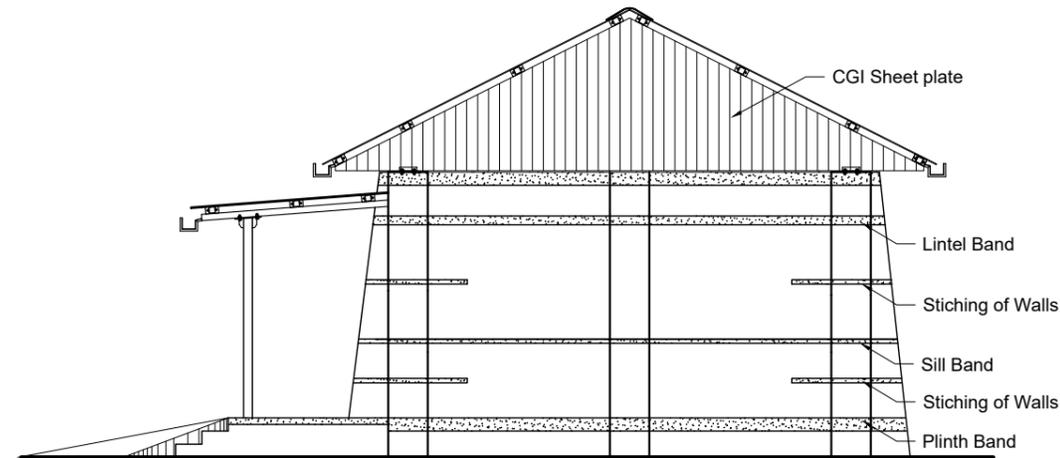
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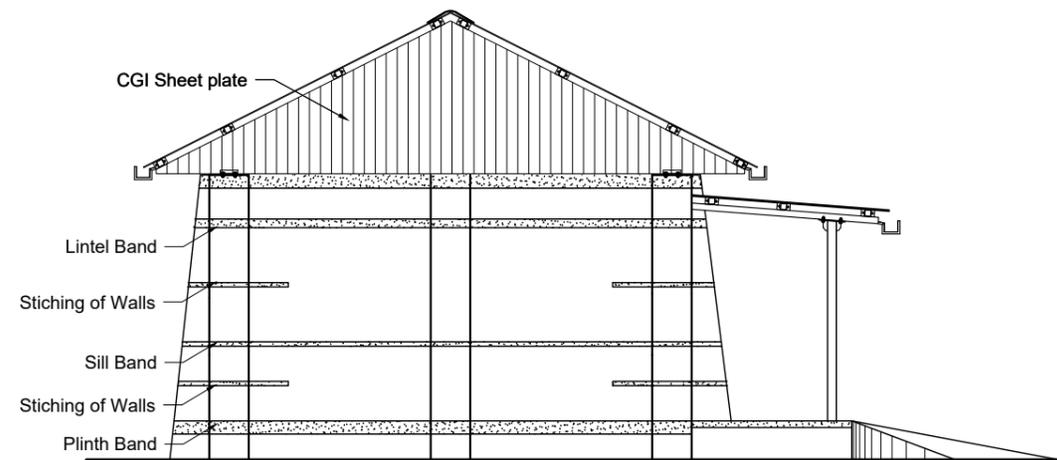
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PAPER SIZE-A3	SCALE:- 1:100 DATE:- 2078 5

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RIGHT SIDE ELEVATION



LEFT SIDE ELEVATION

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SHEET TITLE:-
 ELEVATION

RECOMMENDED BY:-

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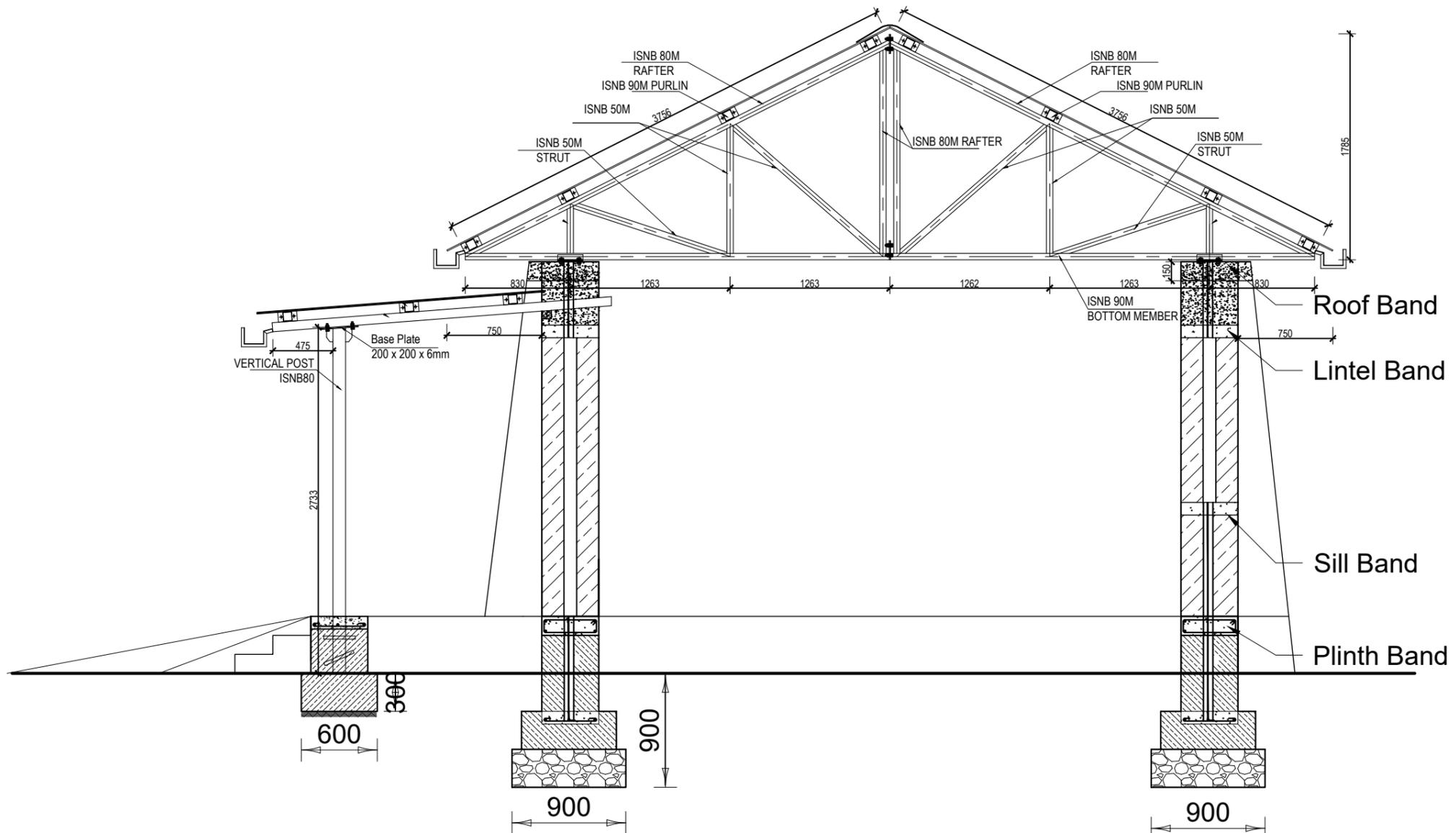
SHEET.No

A-4

PAPER SIZE-A3

SCALE:- 1:100
 DATE:- 2078

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SECTION AT X-X

OPENING SHEDULE

NO.	DESCRIPTION	SYMBOL	SIZE	NOS.
1.	DOOR	D	1050 X 2200	2
2.	DOOR	DI	1200 X 2200	2
3.	WINDOW	W	1050 X 1300	8

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CONSULTANT
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SHEET TITLE:-
 SECTION & OPENING SCHEDULE

RECOMMENDED BY:-

APPROVED BY:-

PAPER SIZE-A3 SCALE:- 1:100 DATE:- 2078 SHEET.No A-5 5

GENERAL NOTES:

- 1.DO NOT SCALE FROM THE DRAWINGS
- 2.STRUCTURAL DRAWING SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL AND SERVICES DRAWINGS.
- 3.UNLESS SPECIFIED OTHERWISE,ALL LEVELS SHOWN IN STRUCTURAL DRAWINGS ARE STRUCTURAL LEVELS ONLY.
- 4.DO NOT SCALE FOLLOW WRITTEN DIMENSION ONLY.
- 5.ALL DIMENSION & LEVEL ARE IN FEET INCHES UNLESS NOTED OTHERWISE. ALL DIMENSION TO BE VERIFIED ON SITE & APPROVED BY THE ENGINEER.
- 6.GRADE OF CONCRETE MIX SHALL BE M-20 FOR COLUMNS. M-20 FOR FOOTING,WALLS \MBEAMS,SLABS ETC. UNLESS NOTED OTHERWISE CONFORMING TO NBC 205:2020& IS:456-2000.
- 7.REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED BARS OF GRADE Fe:500.
- 8.CLEAR COVER TO BARS
 - a.FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = 50 MM
 - b.FOR LONGITUDINAL (VERTICAL) BARS IN COLUMN = 40 MM
 - c.FOR MAIN BARS IN BEAMS = 25 MM
 - d.FOR OUTER BARS IN SLAB = 15 MM/25 MM FOR FREE END.
- 9.BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN.
- 10.BARS SPLICED IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DRAWING.
- 11.DEVELOPMENT / LAP LENGTH (Ld.) FOR BARS-60xØ
- 12.TEMP./ DISTRIBUTION REINFORCEMENT FOR SLAB - TMT 8Ø @ 200 C/C
- 13.CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS =25 mm
- 14.PROVIDE SHEAR REINFORCEMENT AT 4" C/C AT LAP LOCATIONS.
- 15.H=CLEAR SPAN OF FLOOR.
- 16.h=H/6 OR 450mm WHICHEVER IS GREATER.
- 17.Z= DEPTH OF BEAM.
- 18.ANY DISCREPANCY NOTED BETWEEN DETAILS IN THE DRAWINGS/ SPECIFICATIONS,THE MATTER SHALL BE BROUGHT TO THE NOTICE OF CONCERNED ENGINEER PRIOR TO CONSTRUCTION AND GOT RECONCILED BEFORE EXECUTION.

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CONSULTANT
ALTIUS DESIGN PVT LTD

DESIGNED BY:-

SHEET TITLE:-
GENERAL NOTES

RECOMMENDED BY:-

APPROVED BY:-

SHEET.No

S-1

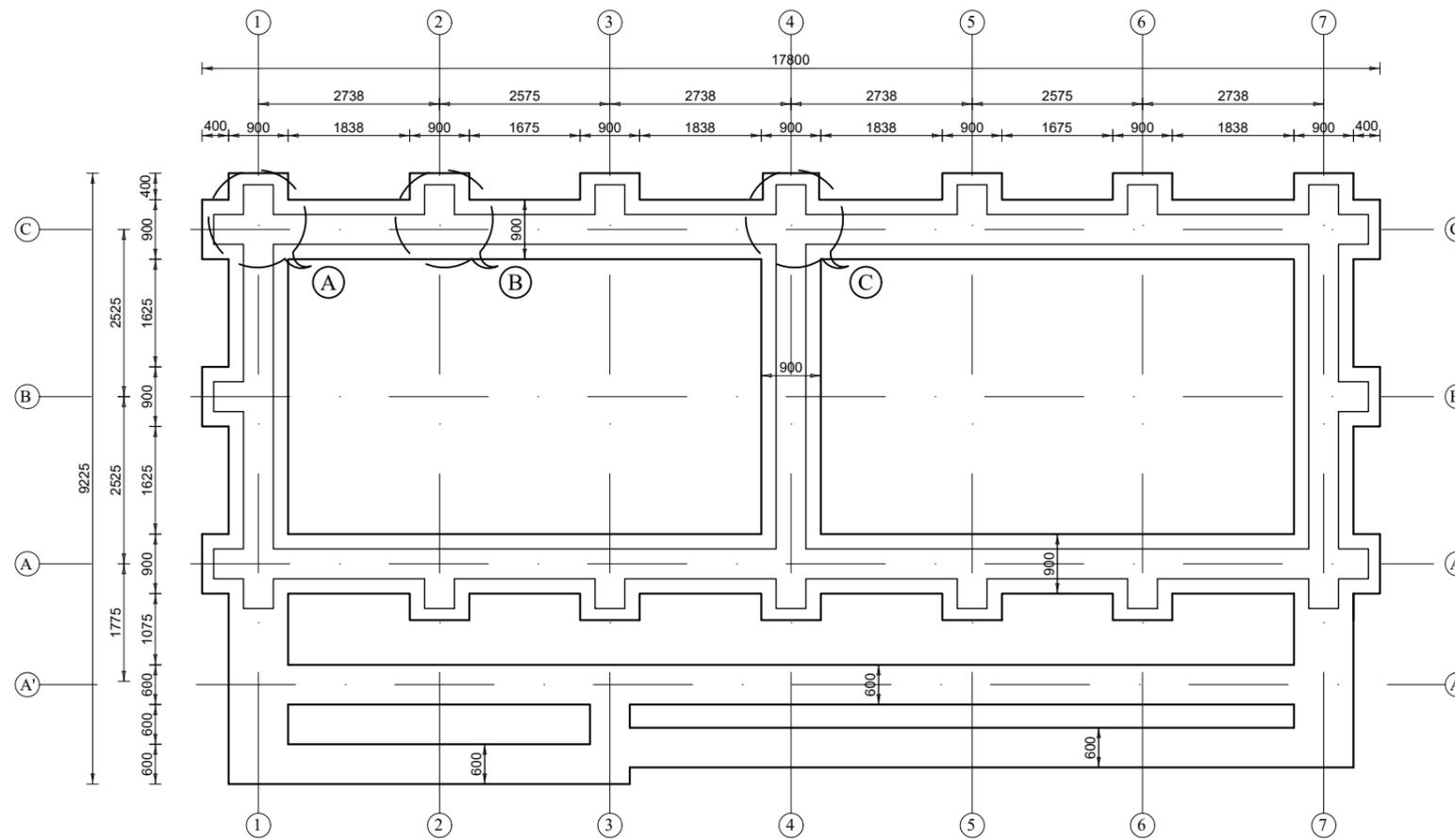
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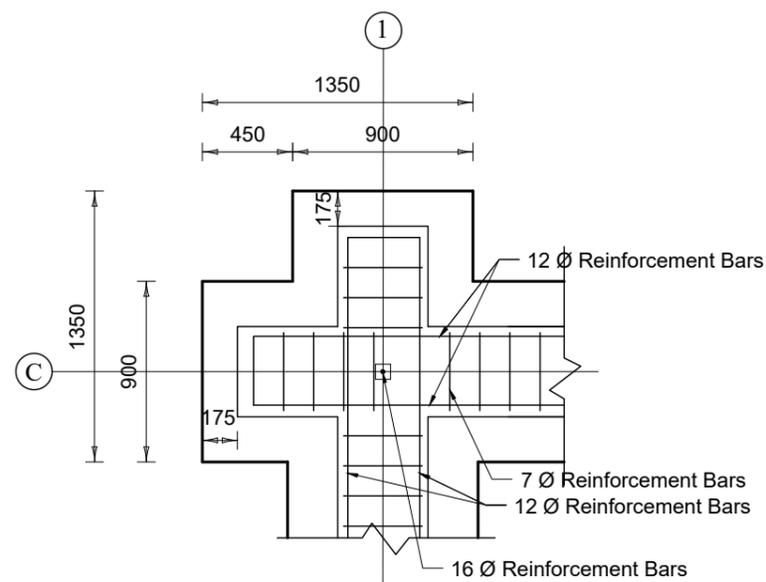
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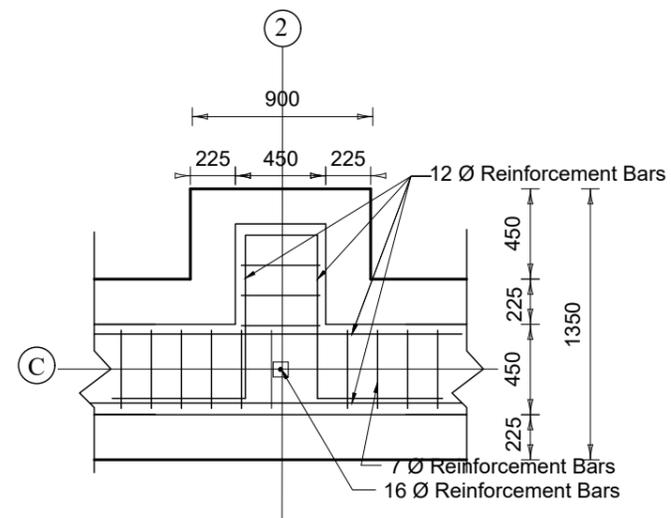
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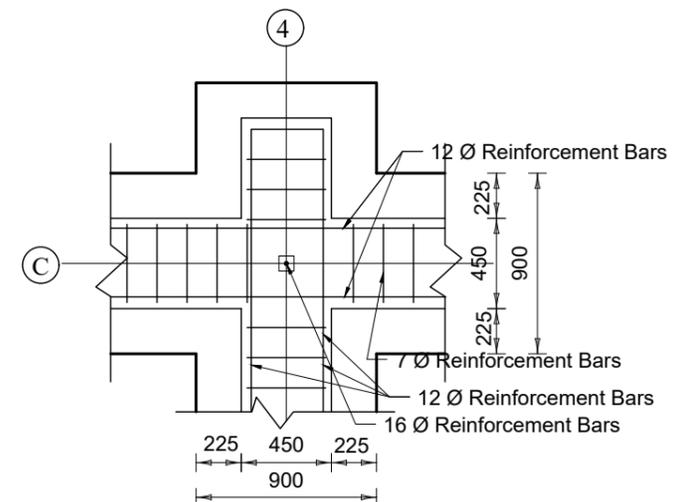
TRENCH PLAN



DETAIL AT A



DETAIL AT B



DETAIL AT C

PROJECT:-
 2 CLASSROOM -TYPE DESIGN FOR HIMALAYAN/HILLY REGION

CONSULTANT
 ALTIUS DESIGN PVT LTD

DESIGNED BY:-
 ER.SUJAN SHAKYA

SHEET TITLE:-
 TRENCH PLAN

RECOMMENDED BY:-

APPROVED BY:-

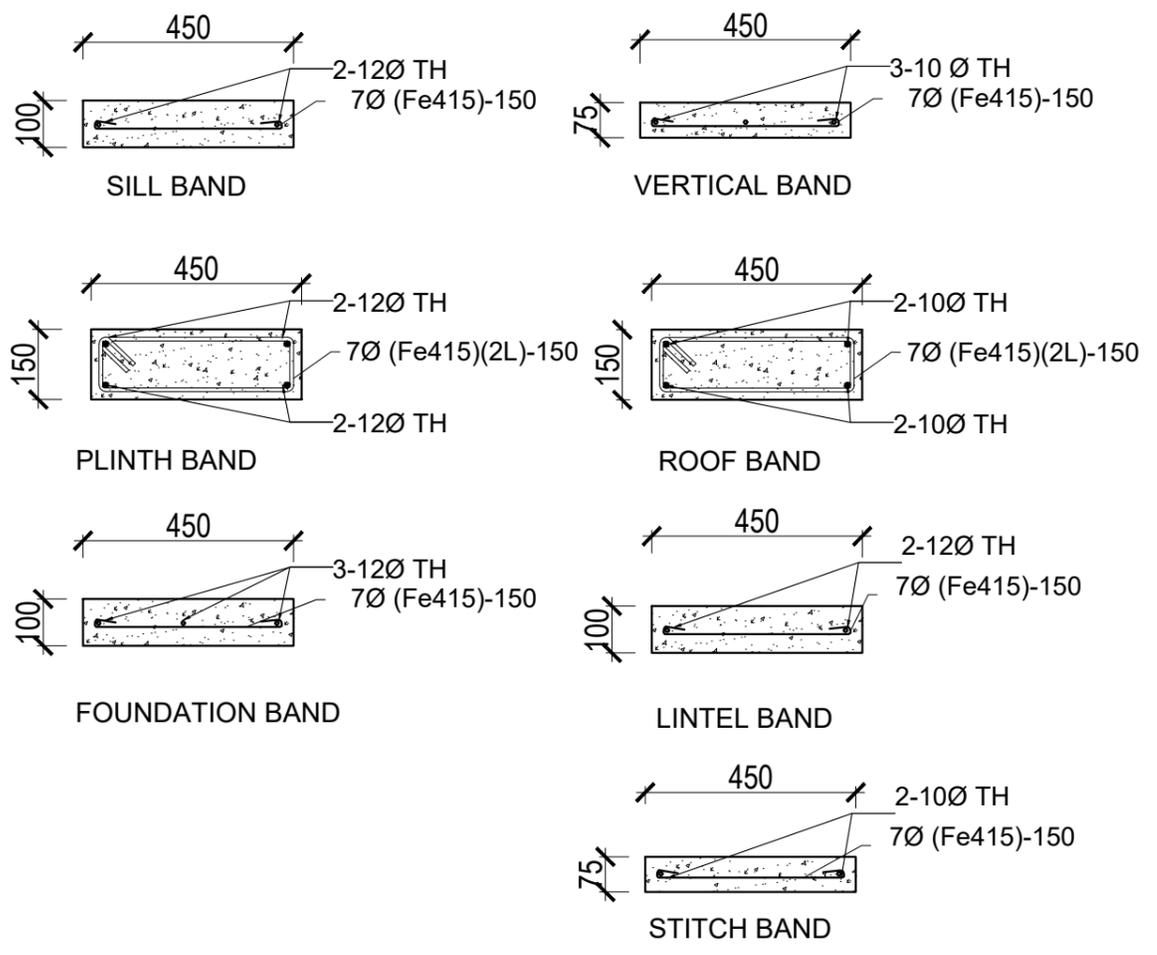
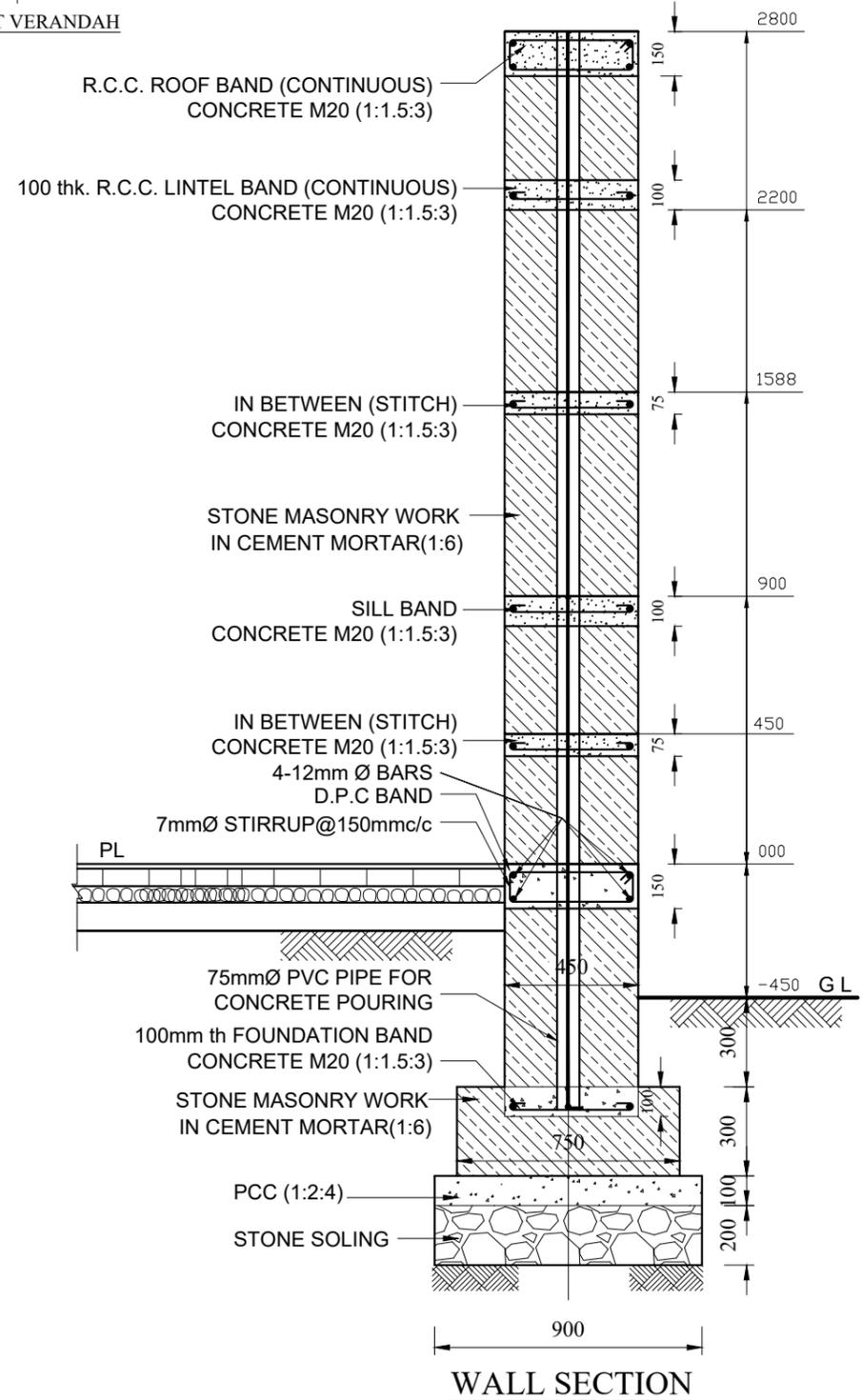
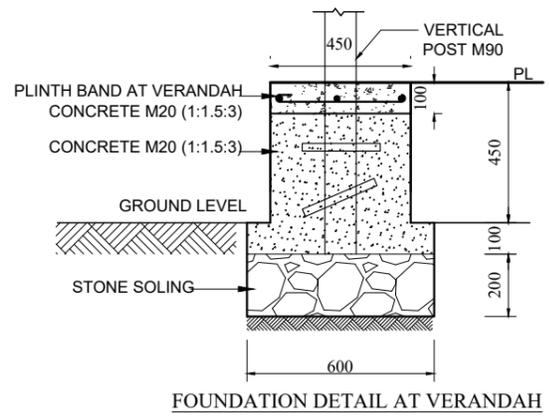
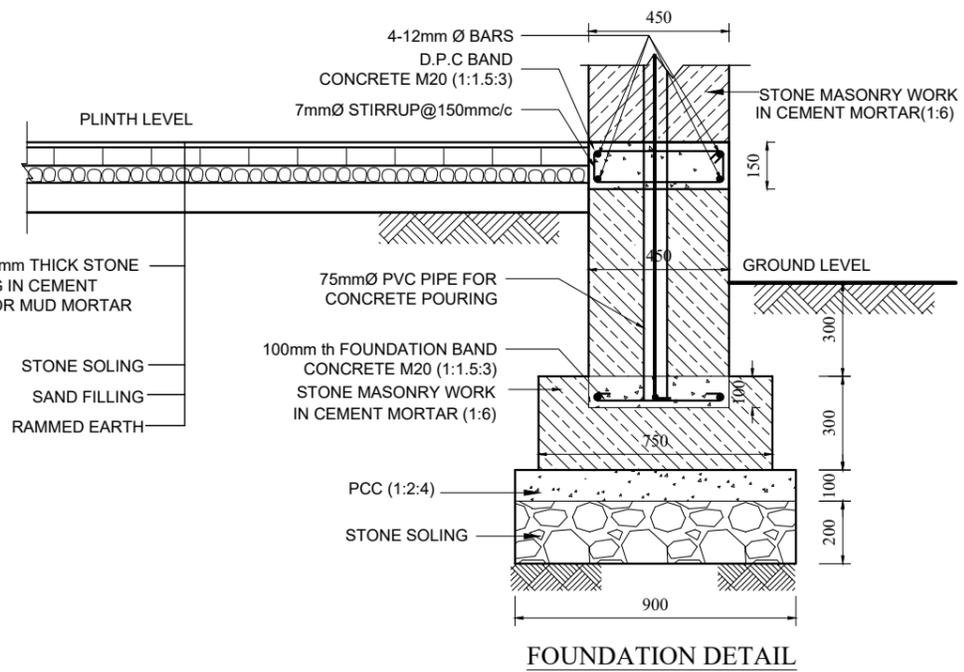
SHEET.No

S-2

PAPER SIZE-A3

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PROJECT:-
2 CLASSROOM -TYPE DESIGN FOR HIMALAYAN/HILLY REGION

CONSULTANT
ALTIUS DESIGN PVT LTD

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ER.SUJAN SHAKYA

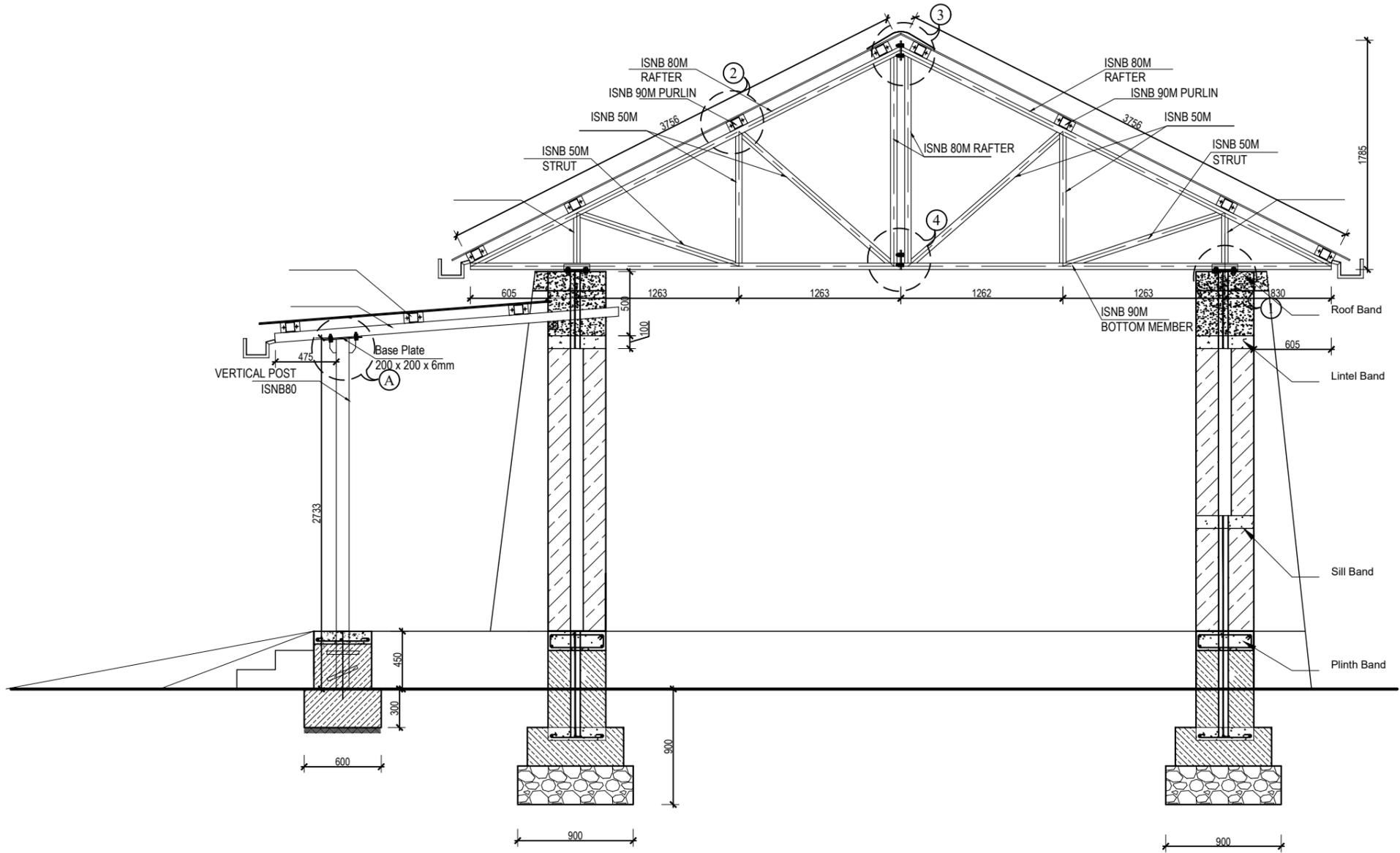
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WALL SECTION FOUNDATION DETAILS

RECOMMENDED BY:-

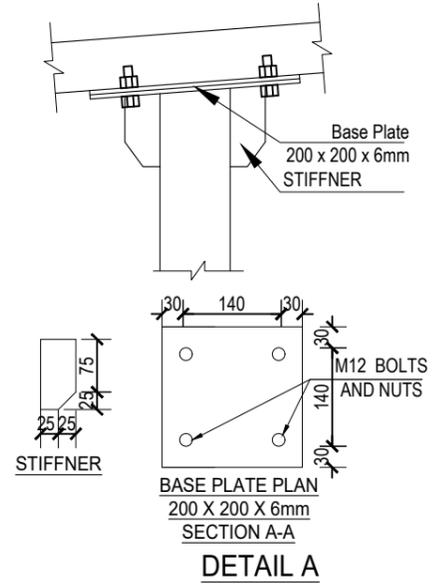
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SHEET.No
S-3
8



SECTION AT X-X



DETAIL A

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DESIGNED BY:-
 ER.SUJAN SHAKYA

SHEET TITLE:-
 TRUSS SECTION

RECOMMENDED BY:-

APPROVED BY:-

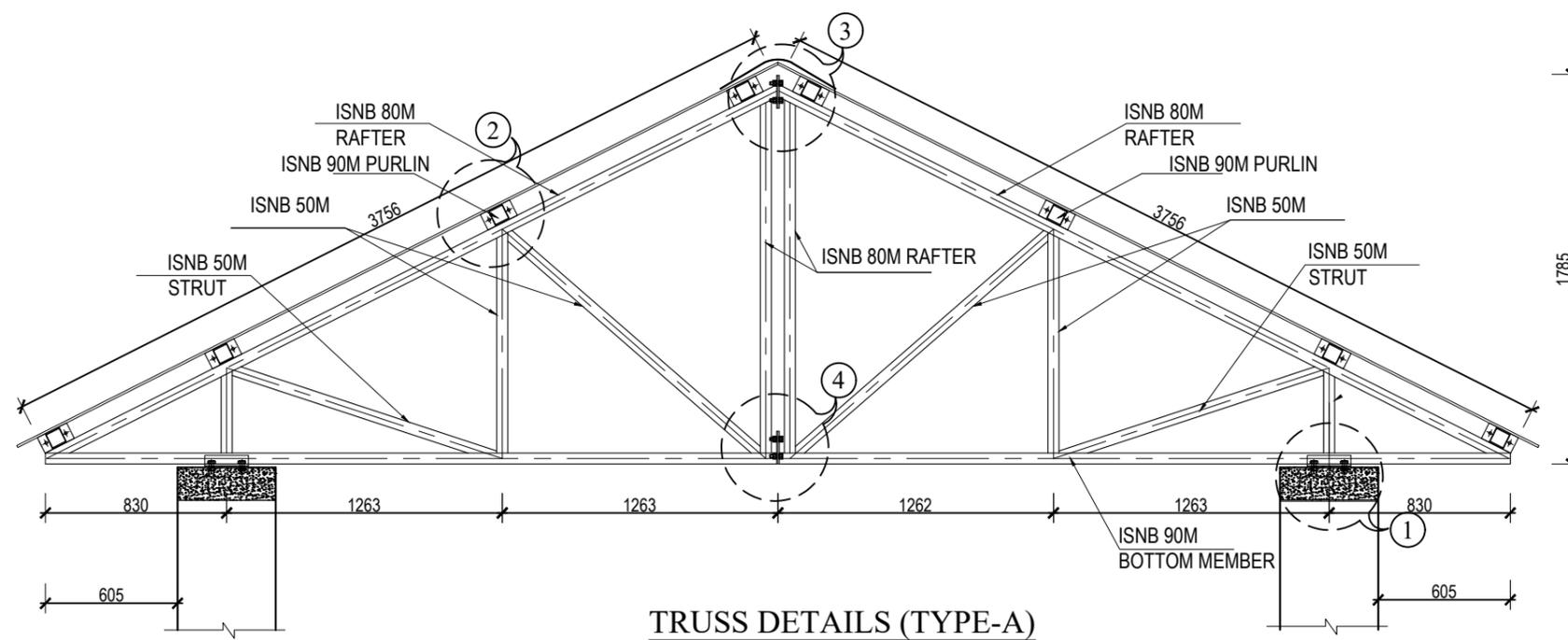
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TRUSS DETAILS (TYPE-A)

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SHEET TITLE:-
 TRUSS SECTION-TYPE A

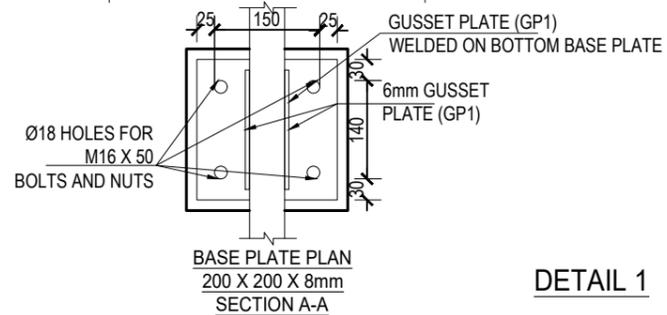
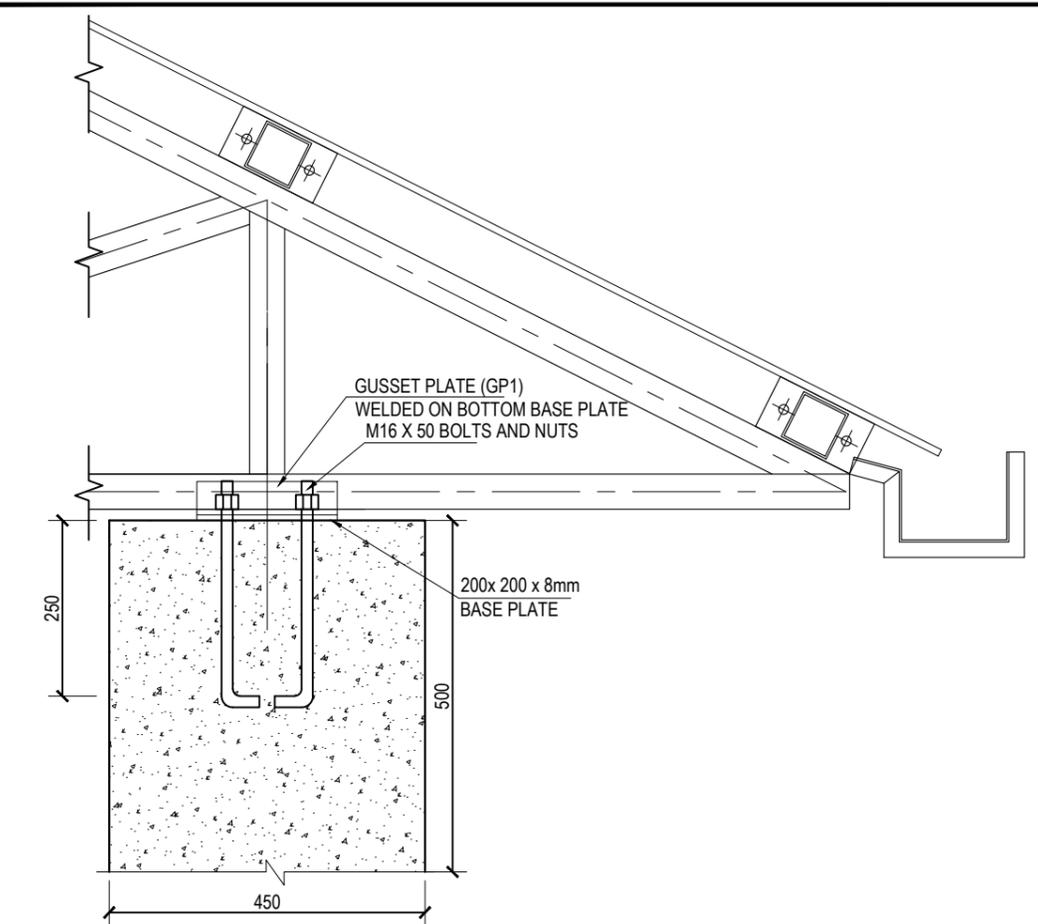
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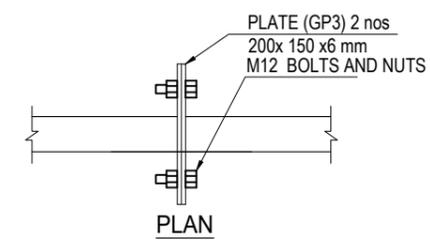
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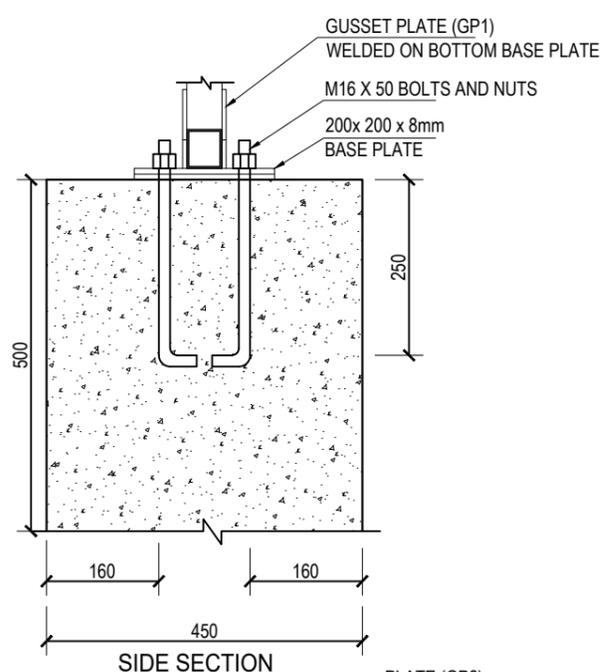
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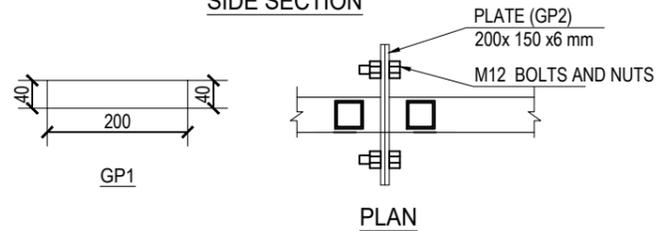
DETAIL 1



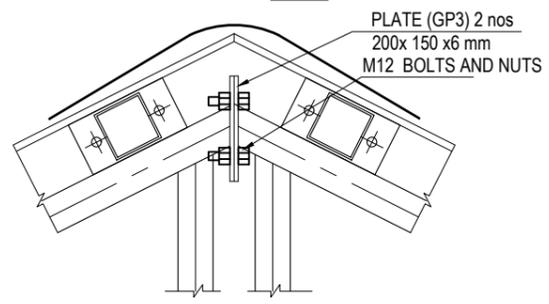
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SIDE SECTION

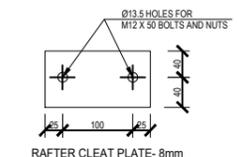


PLAN

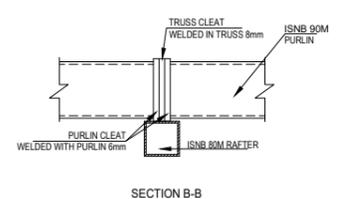


SIDE ELEVATION

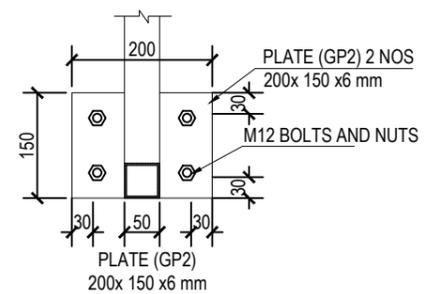
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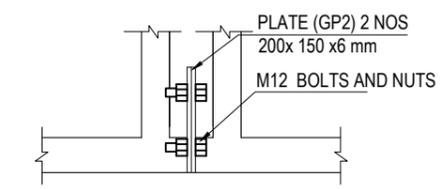
TRUSS CLEAT PLATE- 6mm



SECTION B-B



DETAIL 4



ELEVATION

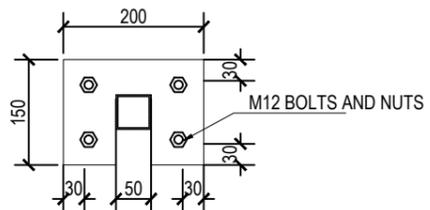
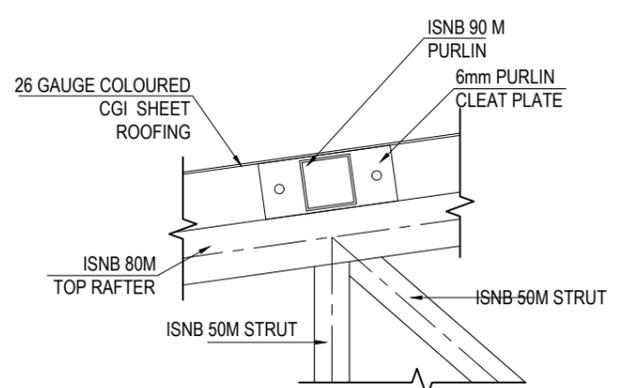


PLATE (GP3)
200x 150 x 6 mm



DETAIL AT 2

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2 CLASSROOM -TYPE DESIGN FOR HIMALAYAN/HILLY REGION

CONSULTANT
ALTIUS DESIGN PVT LTD

DESIGNED BY:-
ER.SUJAN SHAKYA

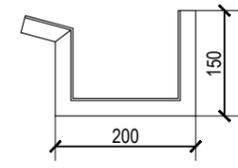
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TRUSS DETAIL SECTION-TYPE A

RECOMMENDED BY:-

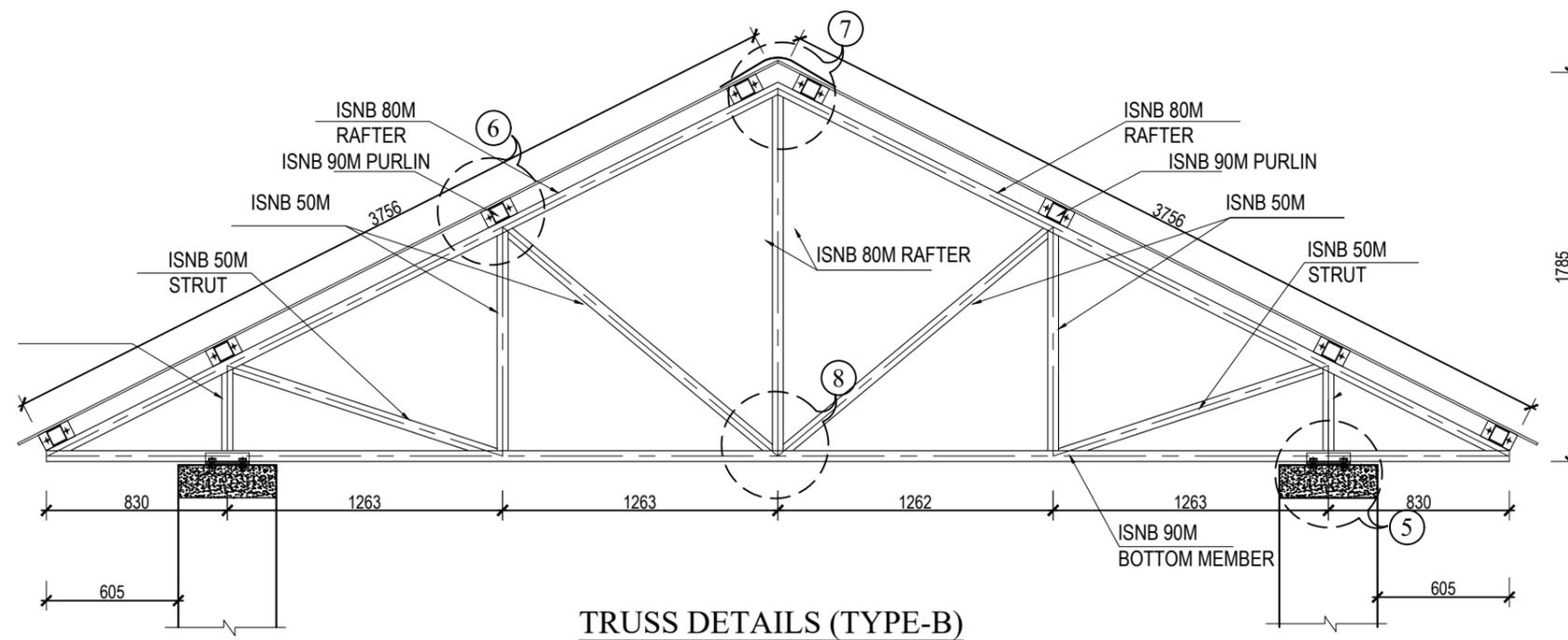
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S-6
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GUTTER DETAIL



TRUSS DETAILS (TYPE-B)

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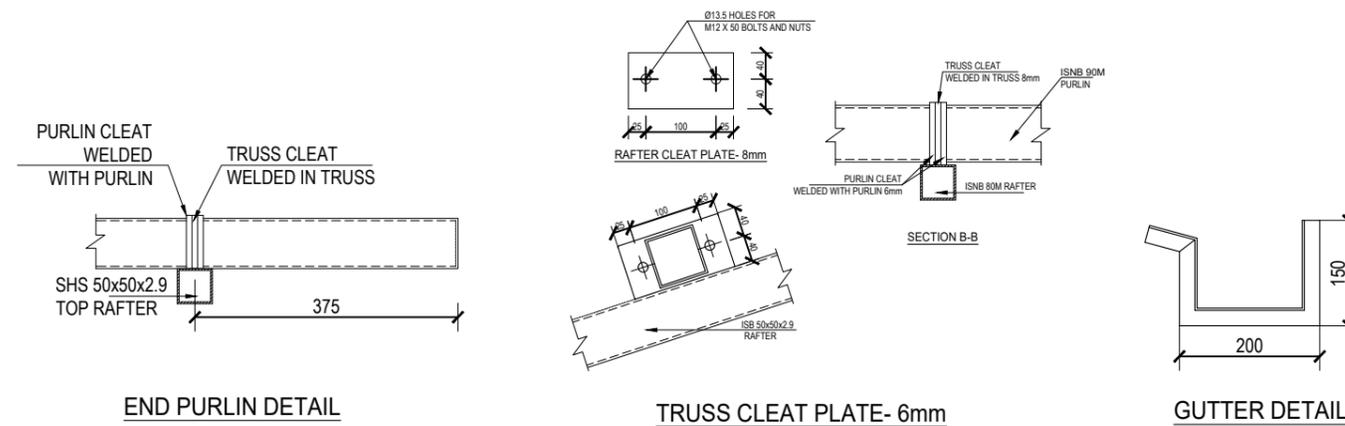
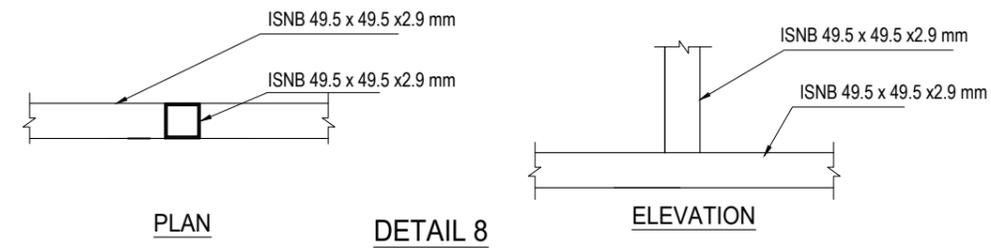
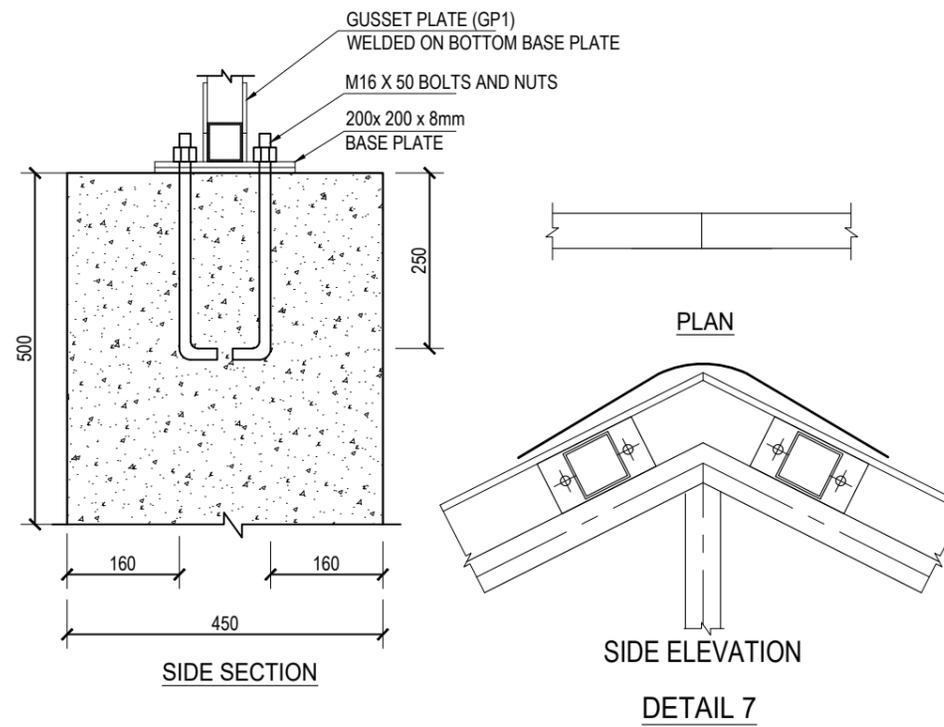
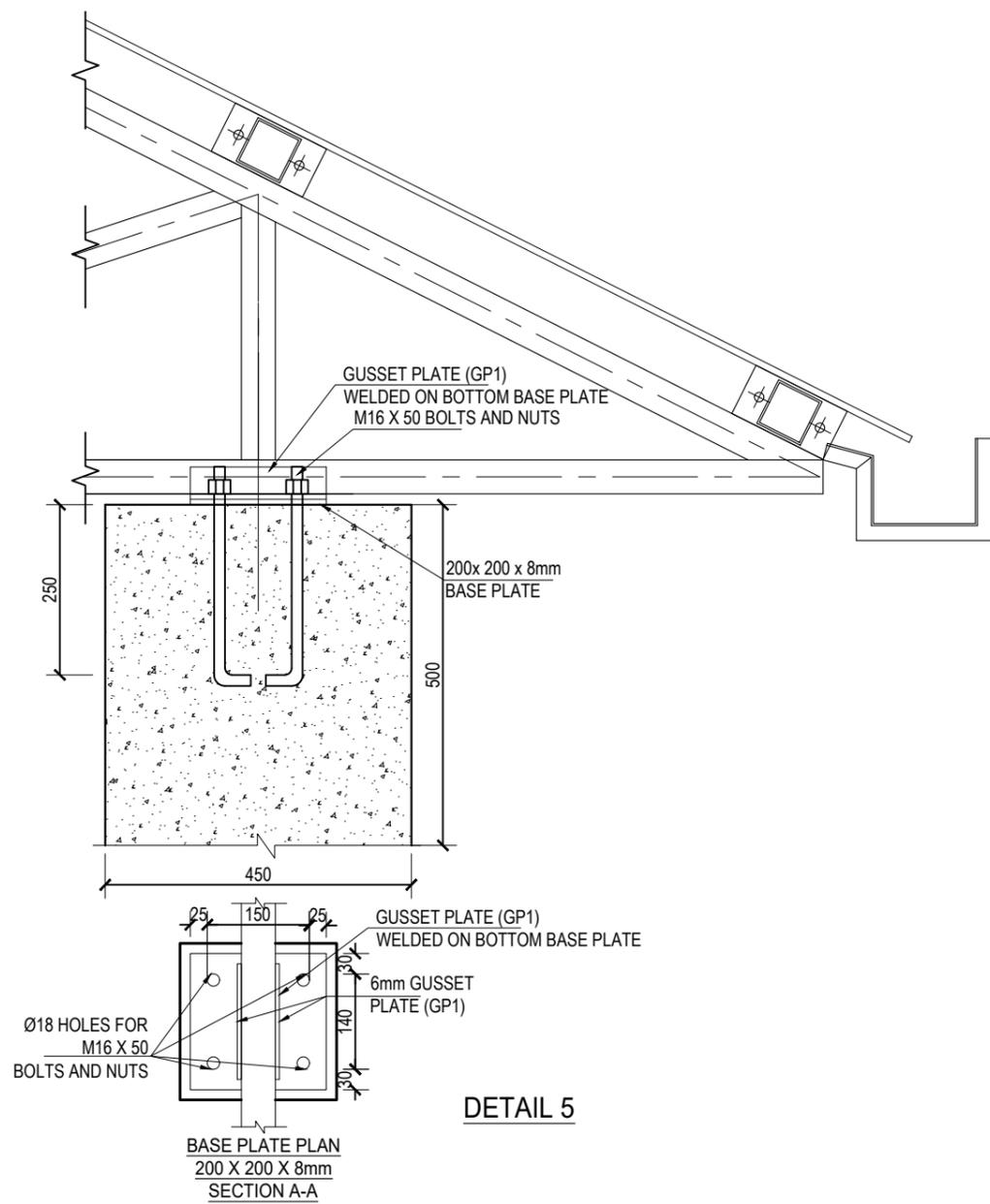
CONSULTANT
 ALTIUS DESIGN PVT LTD

DESIGNED BY:-
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SHEET TITLE:-
 TRUSS SECTION-TYPE B

RECOMMENDED BY:-

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PAPER SIZE-A3	SCALE:- 1:100 DATE:- 2078 8



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SHEET TITLE:-
 TRUSS DETAIL SECTION-TYPE B

RECOMMENDED BY:-

APPROVED BY:-

SHEET.No

S-8

PAPER SIZE-A3

SCALE:- 1:100
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