

# 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

Wood Truss

### 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

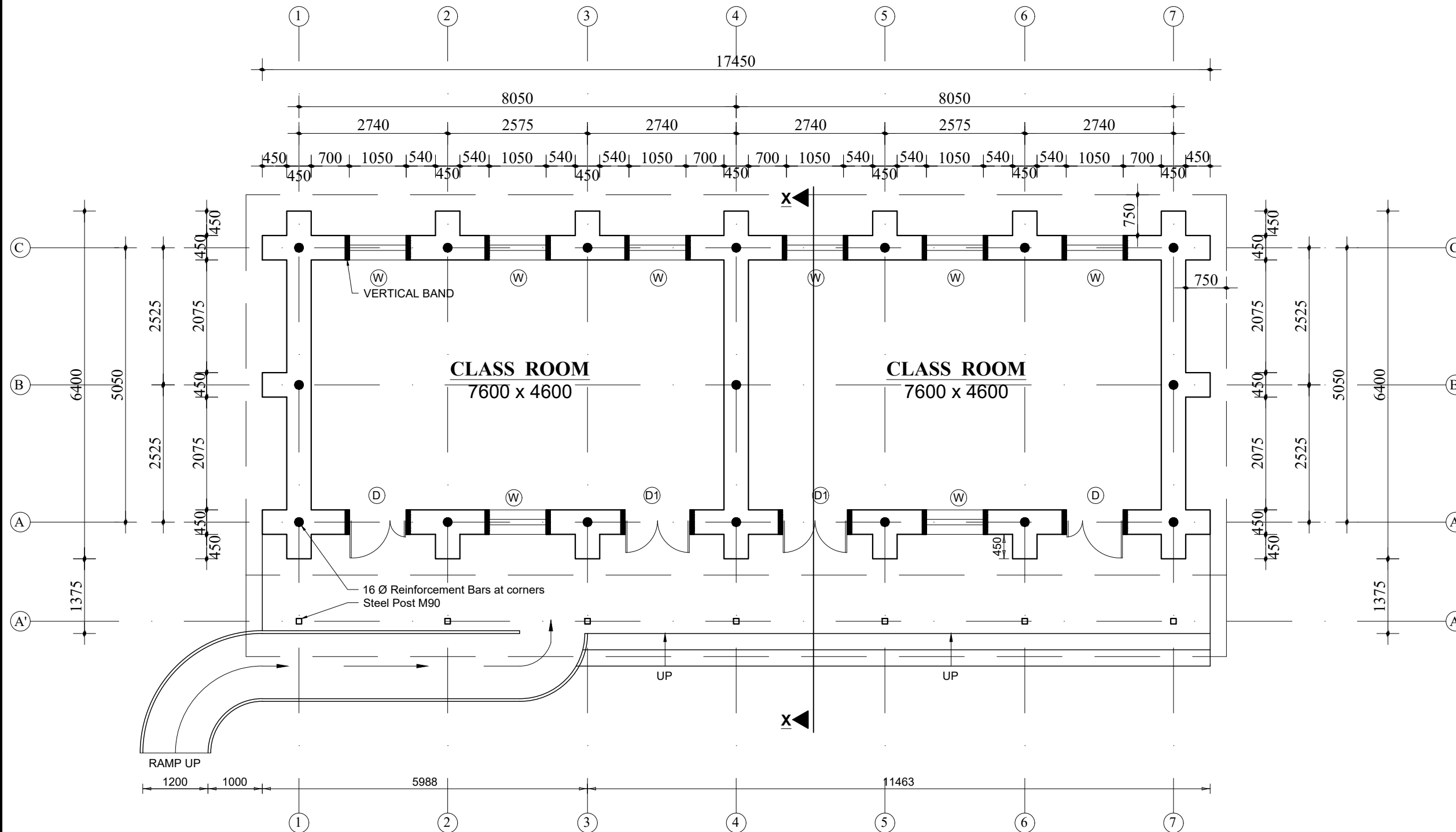
S4-TRUSS SECTION

S5- TRUSS DETAIL

DATE -2022-04-03

NOTE:-  
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 2. ANY DESCRIPENCY IF FOUND SHALL BE REPORTED TO THE SITE ENGINEER.

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**FLOOR PLAN**

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

CONSULTANT  
 ALTIUS DESIGN PVT LTD

ARCHITECTURAL DRAWINGS PROVIDED BY:-  
 -Center For Education and Human Resources Development, sanothimi, Bhaktapur

SHEET TITLE:-  
 GROUND FLOOR PLAN

RECOMMENDED BY:-

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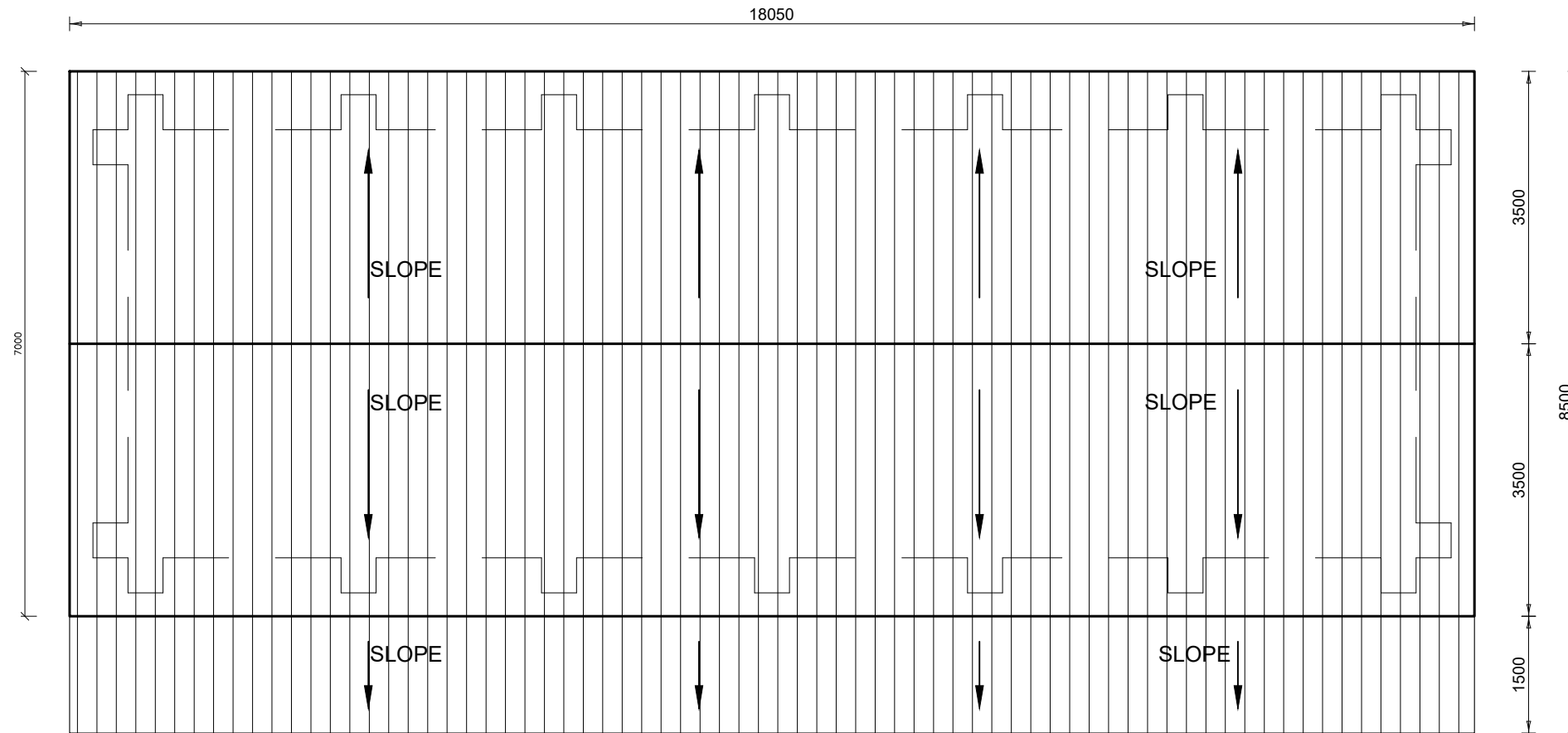
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PAPER SIZE-A3  
 SCALE:- 1:100  
 DATE:- 2078

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**ROOF PLAN**

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

CONSULTANT  
 ALTIUS DESIGN PVT LTD

ARCHITECTURAL DRAWINGS PROVIDED BY:-  
 -Center For Education and Human Resources Development, sanothimi, Bhaktapur

SHEET TITLE:-  
 ROOF PLAN

RECOMMENDED BY:-

APPROVED BY:-

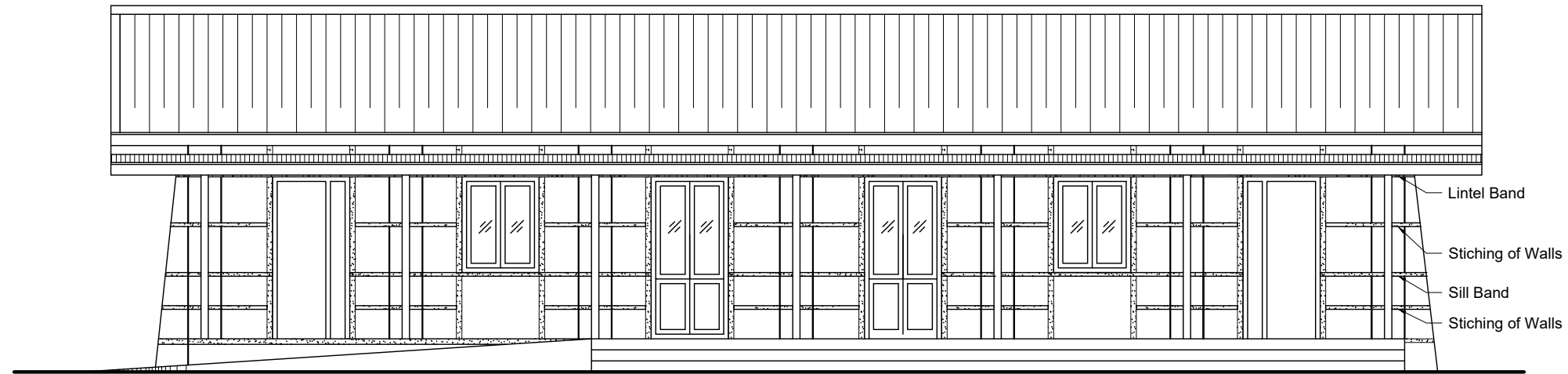
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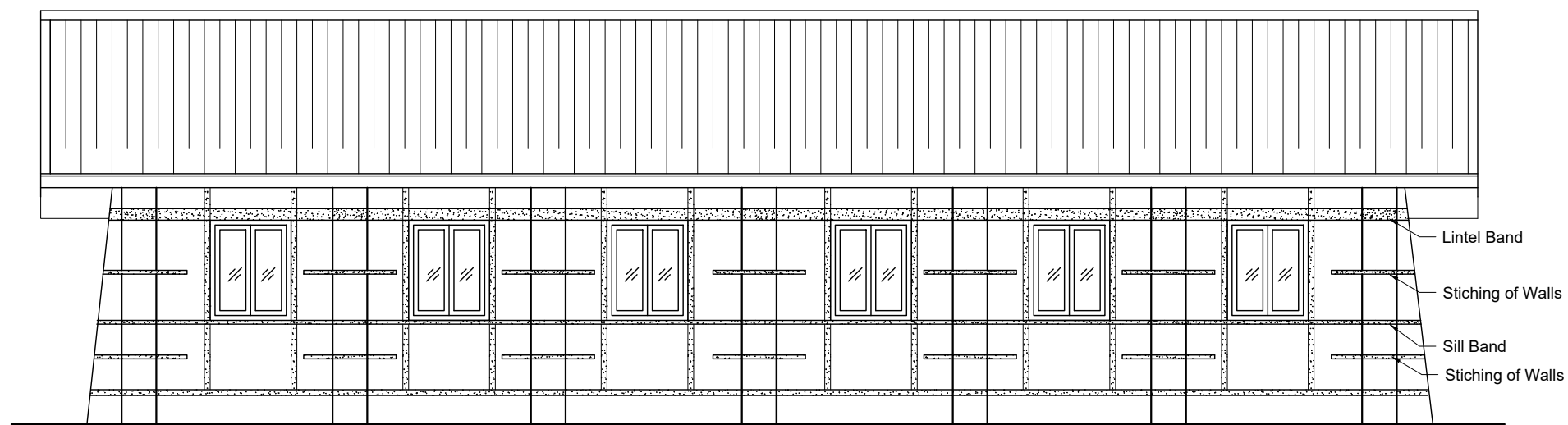
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**FRONT ELEVATION**



**BACK ELEVATION**

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CONSULTANT  
 ALTIUS DESIGN PVT LTD

ARCHITECTURAL DRAWINGS PROVIDED BY:-  
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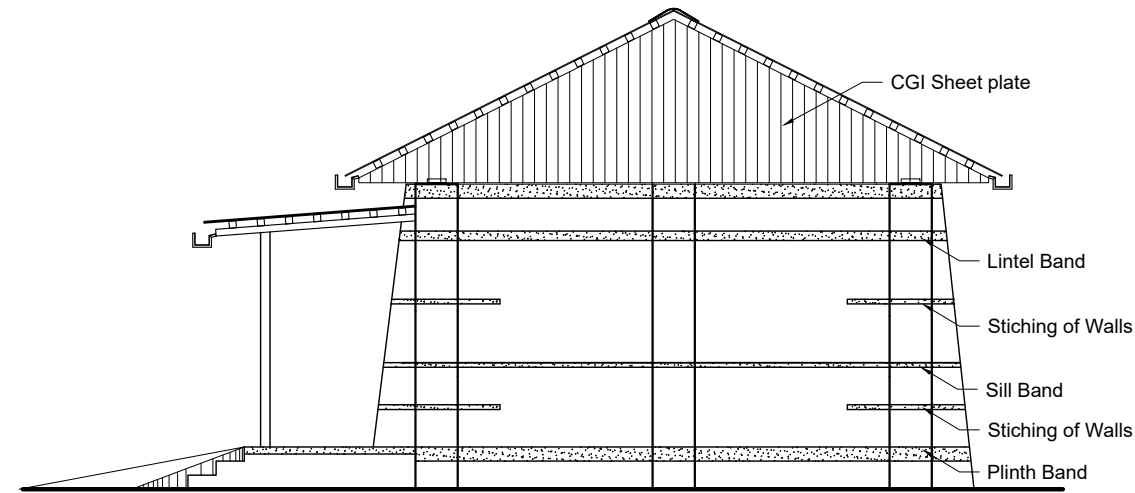
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 ELEVATION

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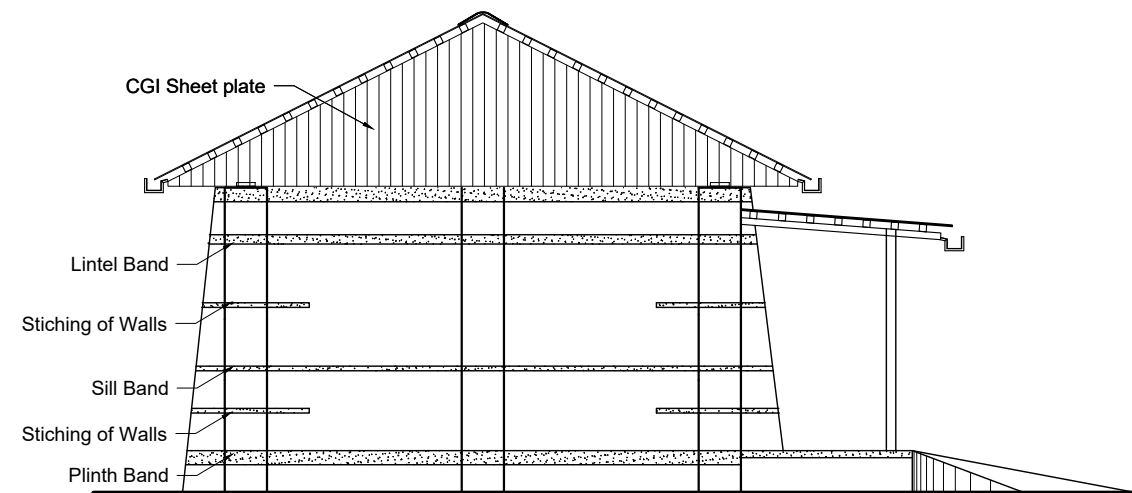
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PAPER SIZE-A3	SCALE:- 1:100 DATE:- 2078 5

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**RIGHT SIDE ELEVATION**



**LEFT SIDE ELEVATION**

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

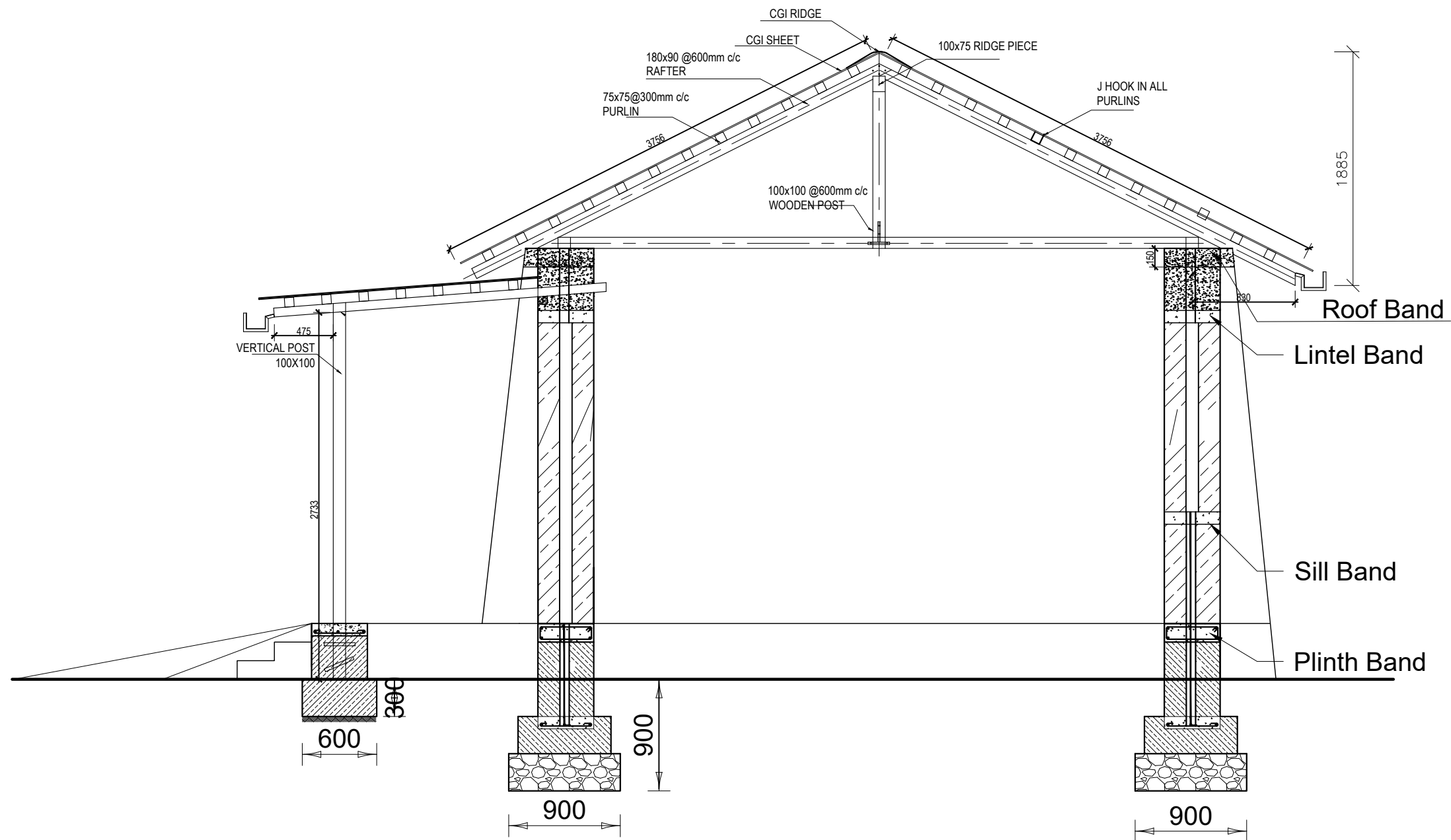
CONSULTANT  
 ALTIUS DESIGN PVT LTD

ARCHITECTURAL DRAWINGS PROVIDED BY:-  
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SHEET TITLE:-  
 ELEVATION

RECOMMENDED BY:-

APPROVED BY:-	SHEET.No A-4
PAPER SIZE-A3	SCALE:- 1:100 DATE:- 2078 5



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

CONSULTANT  
 ALTIUS DESIGN PVT LTD

ARCHITECTURAL DRAWINGS PROVIDED BY:-  
 -Center For Education and Human Resources Development, sanothimi, Bhaktapur

SHEET TITLE:-  
 SECTION & OPENING SCHEDULE

RECOMMENDED BY:-

APPROVED BY:-

SHEET.No  
**A-5**

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

**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 CONFORMING TO NBC 2005:2012.
- 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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PROJECT:-  
2 CLASSROOM -TYPE DESIGN FOR HIMALAYAN/HILLY REGION

CONSULTANT  
ALTIUS DESIGN PVT LTD

DESIGNED BY:-  
ER.SUJAN SHAKYA

SHEET TITLE:-  
GENERAL NOTES

RECOMMENDED BY:-

APPROVED BY:-

SHEET.No

S-1

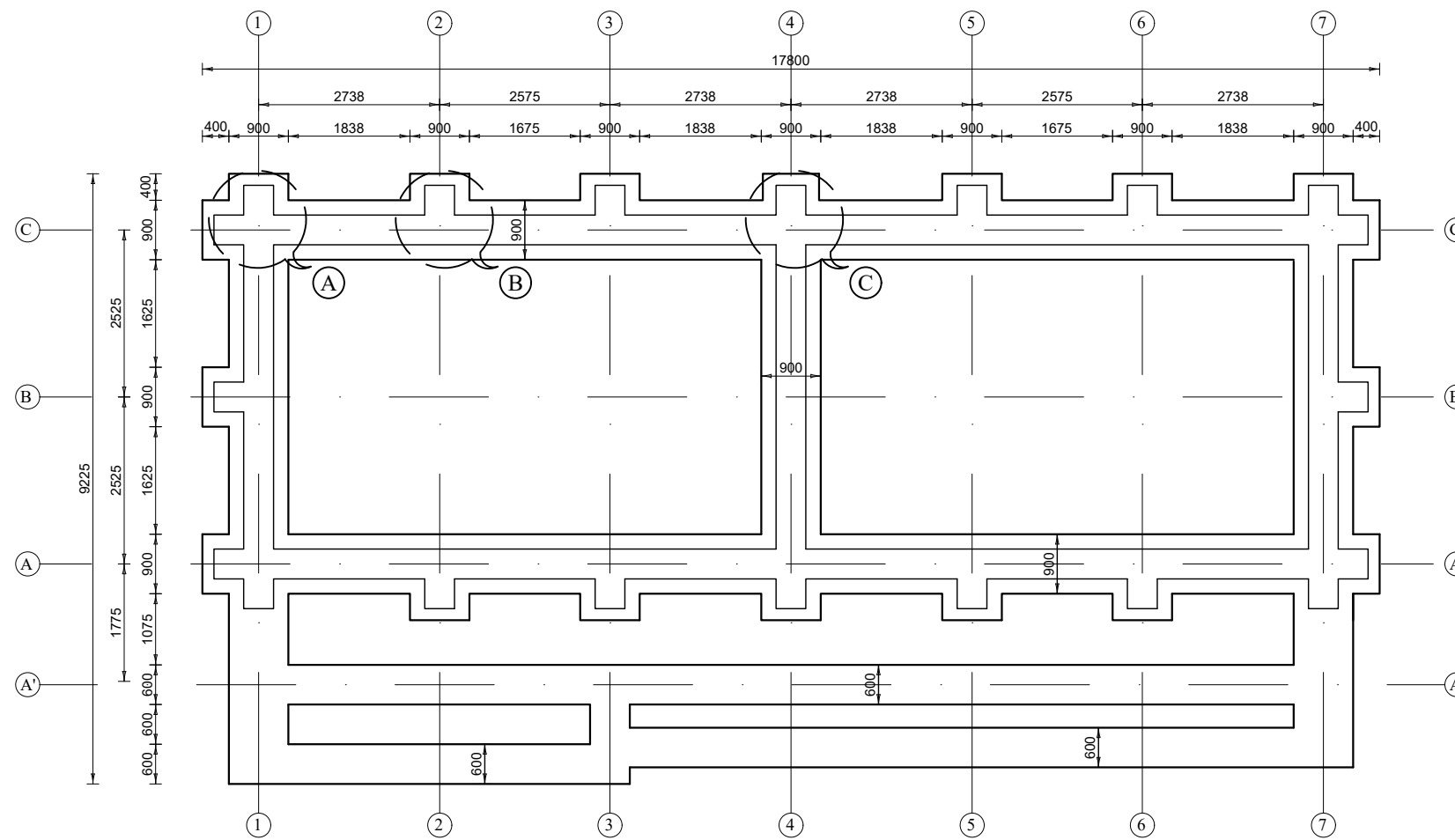
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DATE:- 2078

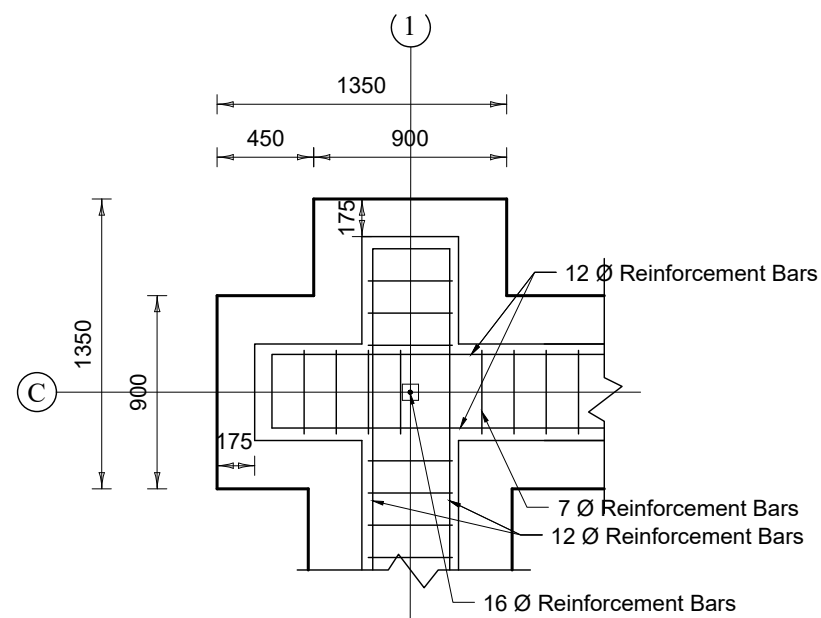
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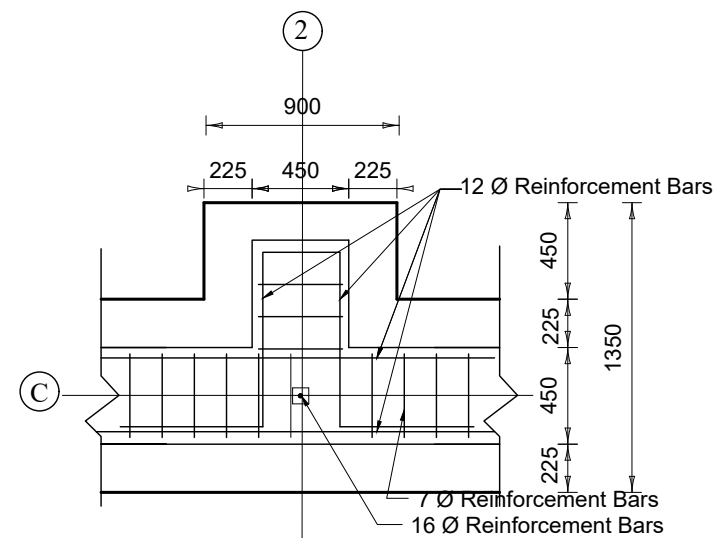
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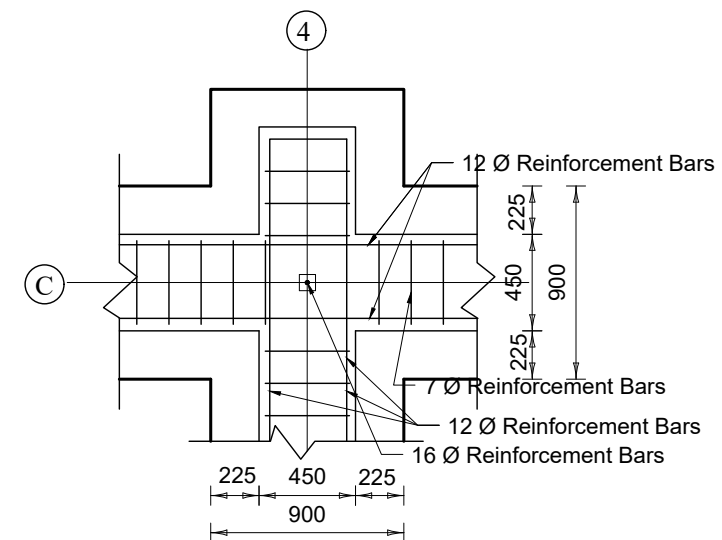
**TRENCH PLAN**



**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

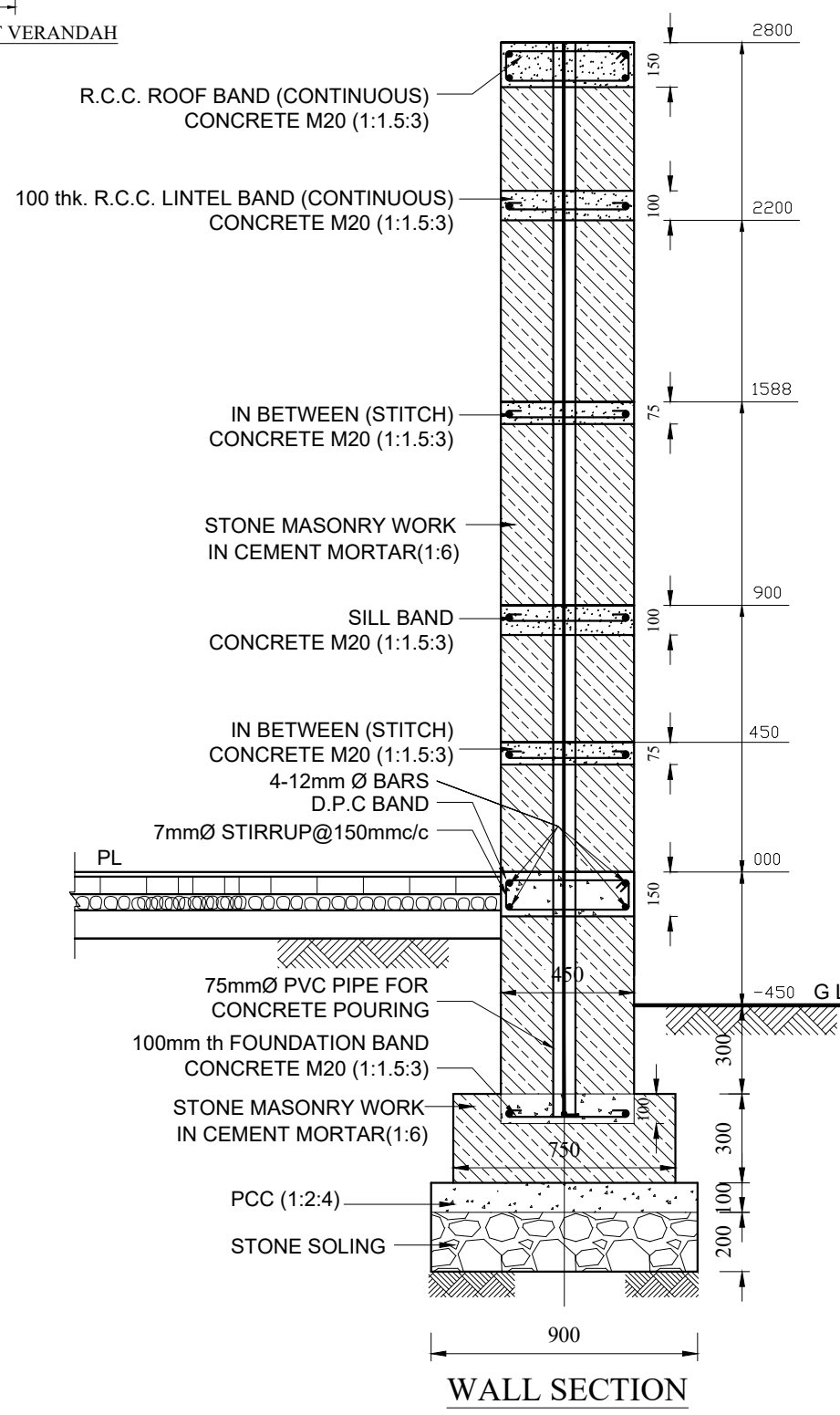
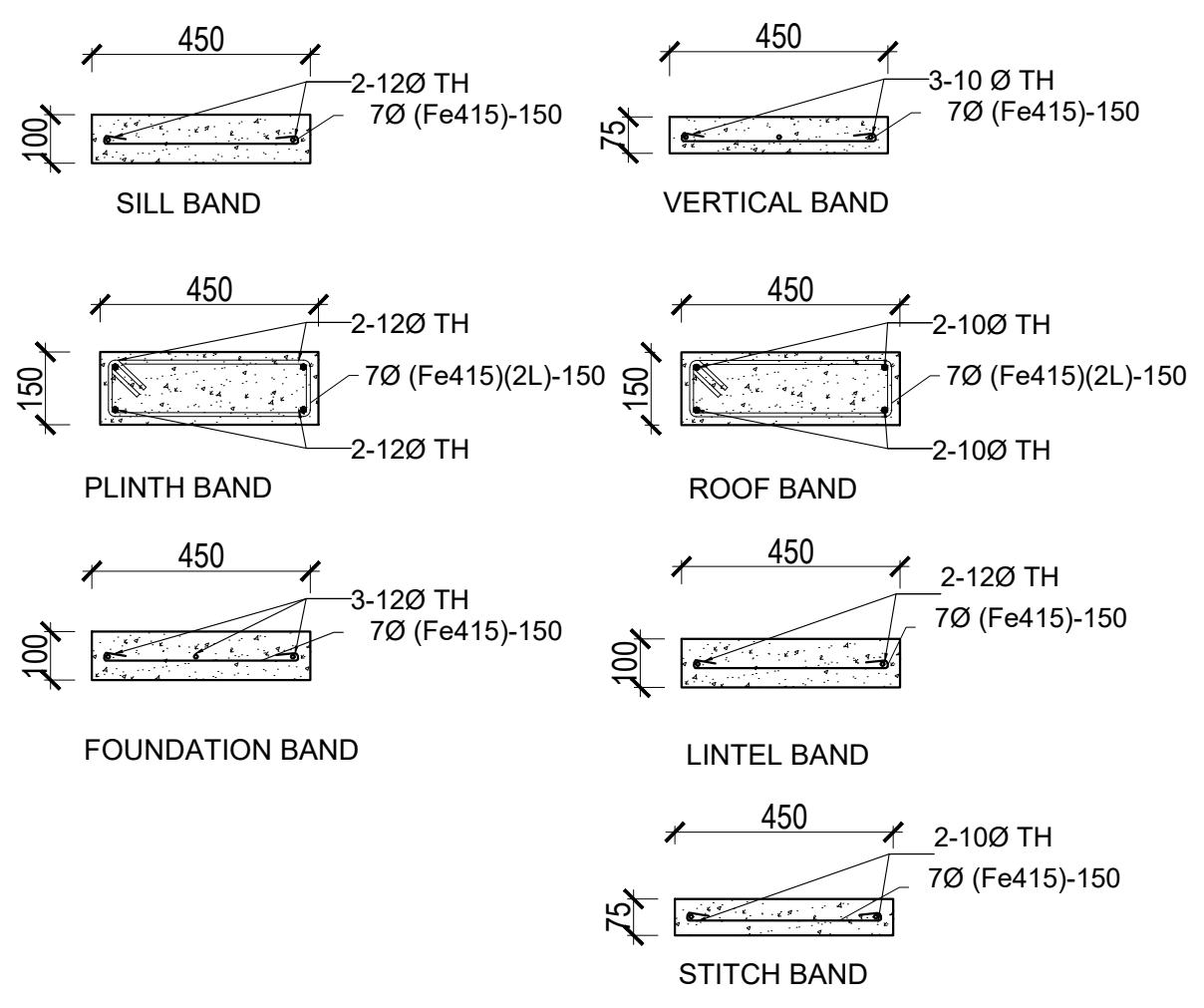
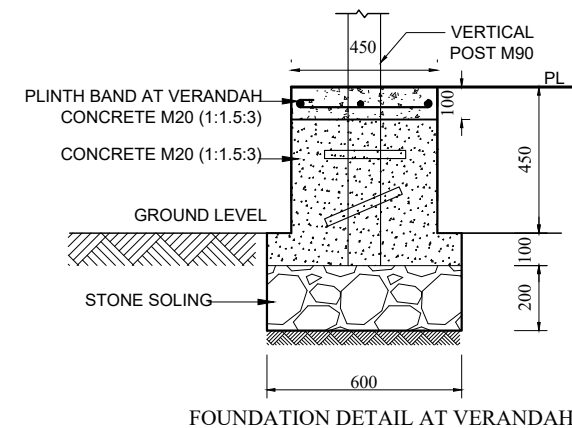
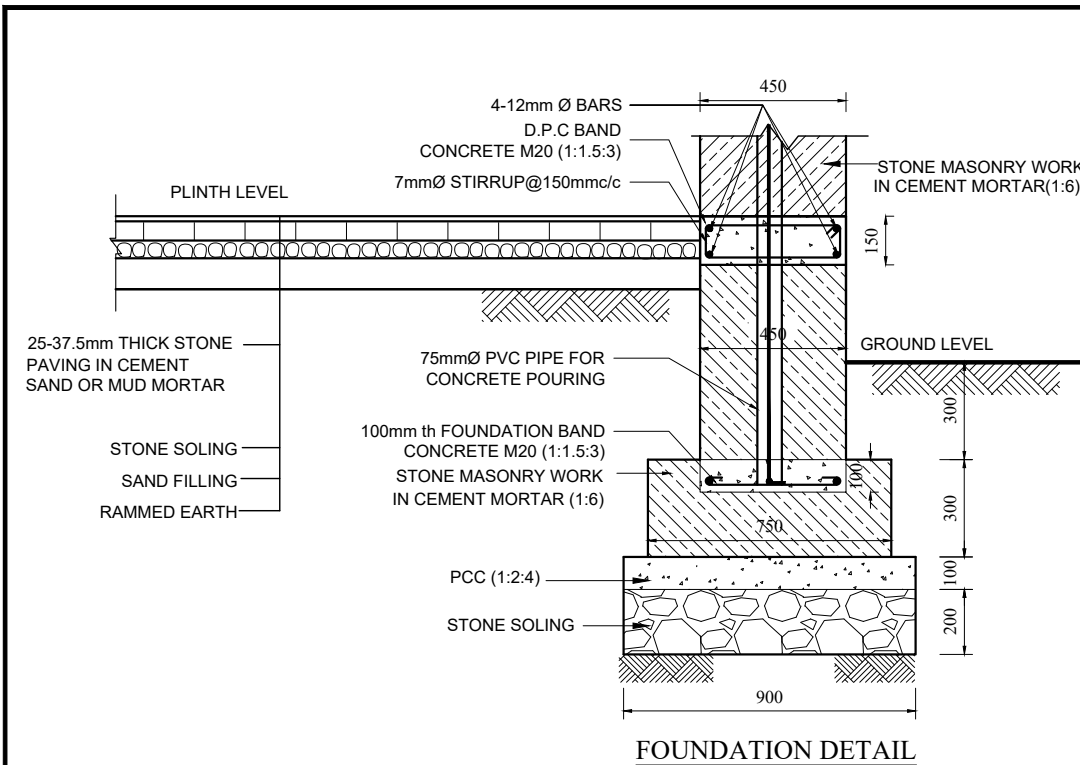
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PAPER SIZE-A3

SCALE:- 1:100  
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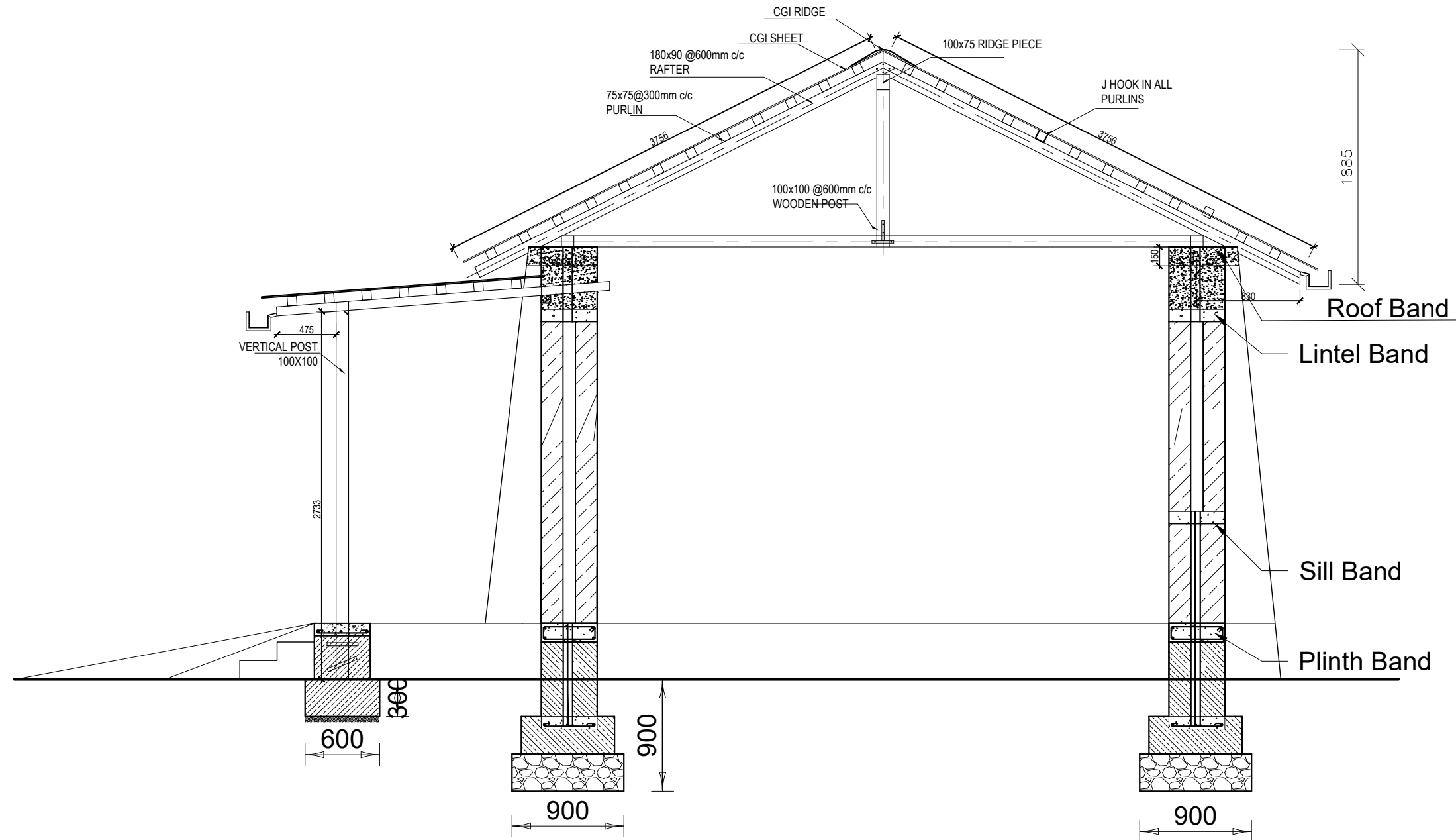
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PROJECT:- 2 CLASSROOM -TYPE DESIGN FOR HIMALAYAN/HILLY REGION		
CONSULTANT ALTIUS DESIGN PVT LTD		
DESIGNED BY:- ER.SUJAN SHAKYA		
SHEET TITLE:- WALL SECTION FOUNDATION DETAILS		
RECOMMENDED BY:-		
APPROVED BY:-	SHEET.No S-3	
PAPER SIZE-A3	SCALE:- 1:100 DATE:- 2078	5

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**SECTION AT X-X**

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

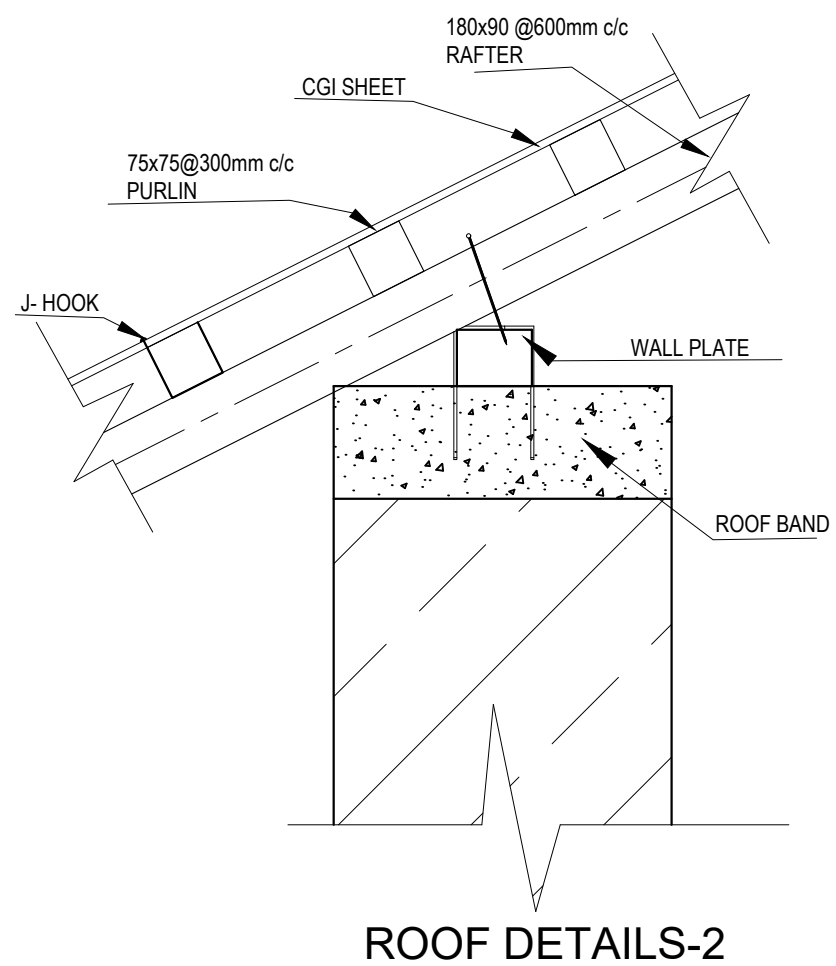
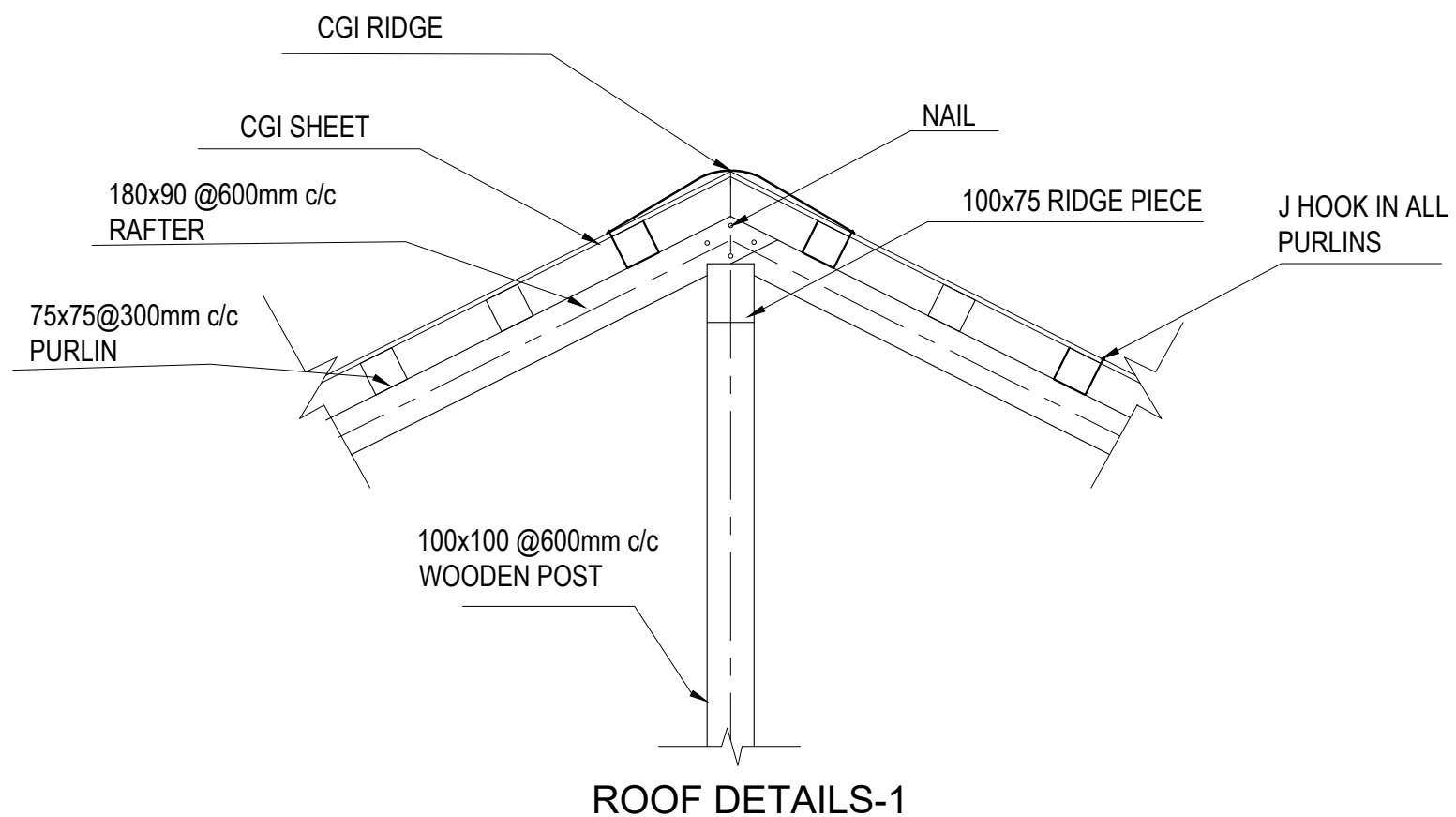
CONSULTANT  
 ALTIUS DESIGN PVT LTD

DESIGNED BY:-  
 ER.SUJAN SHAKYA

SHEET TITLE:-  
 WOOD TRUSS SECTION

RECOMMENDED BY:-

APPROVED BY:-	SHEET.No S-4
PAPER SIZE-A3	SCALE:- 1:100 DATE:- 2078 5



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CONSULTANT  
 ALTIUS DESIGN PVT LTD

DESIGNED BY:-  
 ER.SUJAN SHAKYA

SHEET TITLE:-  
 ROOF DETAILS

RECOMMENDED BY:-

APPROVED BY:-	SHEET.No S-5
PAPER SIZE-A3	SCALE:- 1:100 DATE:- 2078 5