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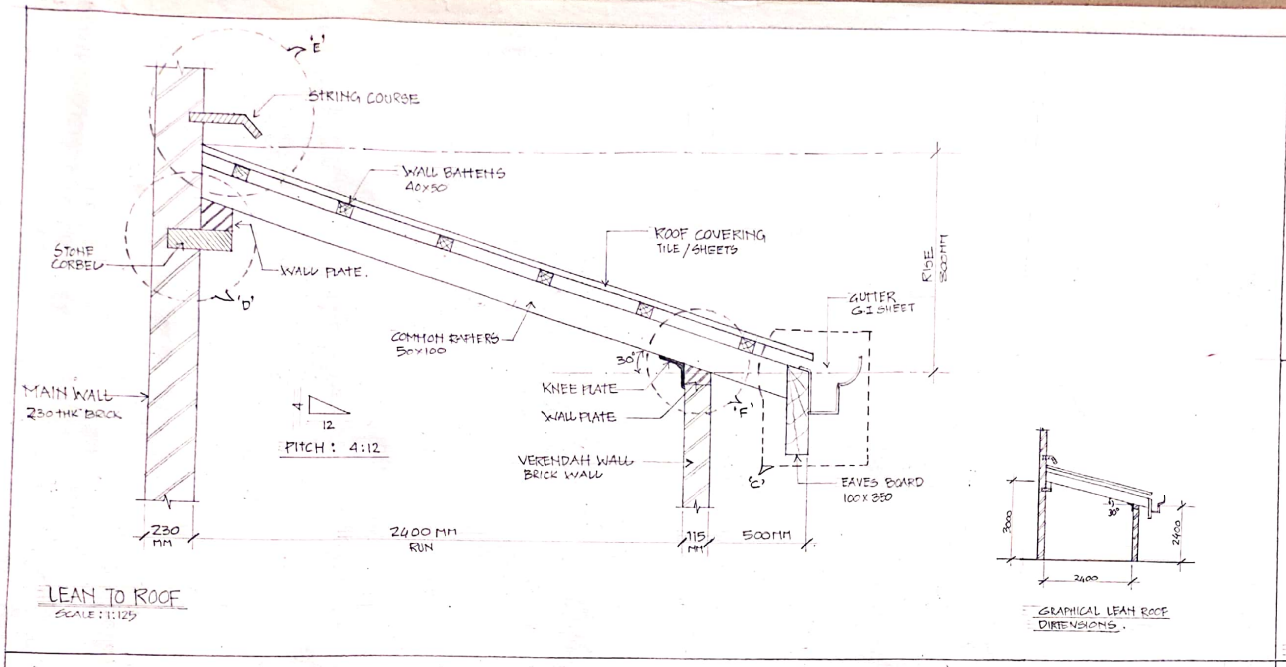
SPYA'S NRV SCHOOL OF ARCHITECTURE

EXTERNAL EXAMINER | INTERNAL EXAMINER

DRAWING INDEX

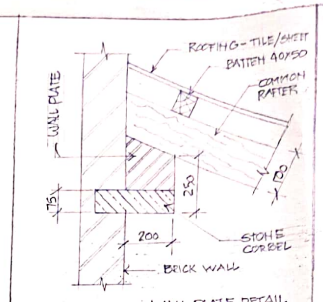
SIGN	NAME: V. NISCHAY	SHEET NO
	USN NO: 1AA24AT017	
	SEMESTER: 2ND SEM	
	SUBJECT	
	COLLAGE: AHRVSA.	

Scanned with OKEN Scanner

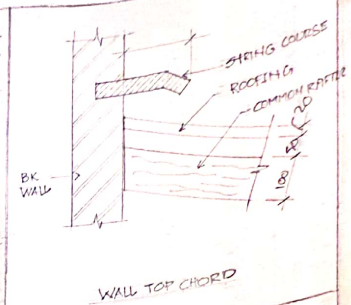


LEAN TO ROOF
SCALE : 1:125

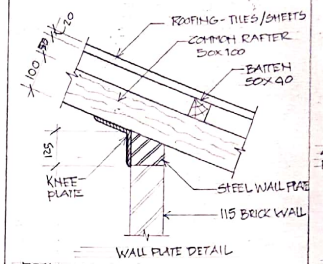
GRAPHICAL LEAN ROOF DIMENSIONS.



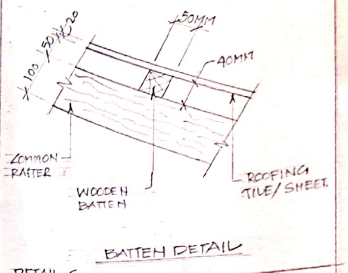
WALL PLATE DETAIL
DETAIL - D



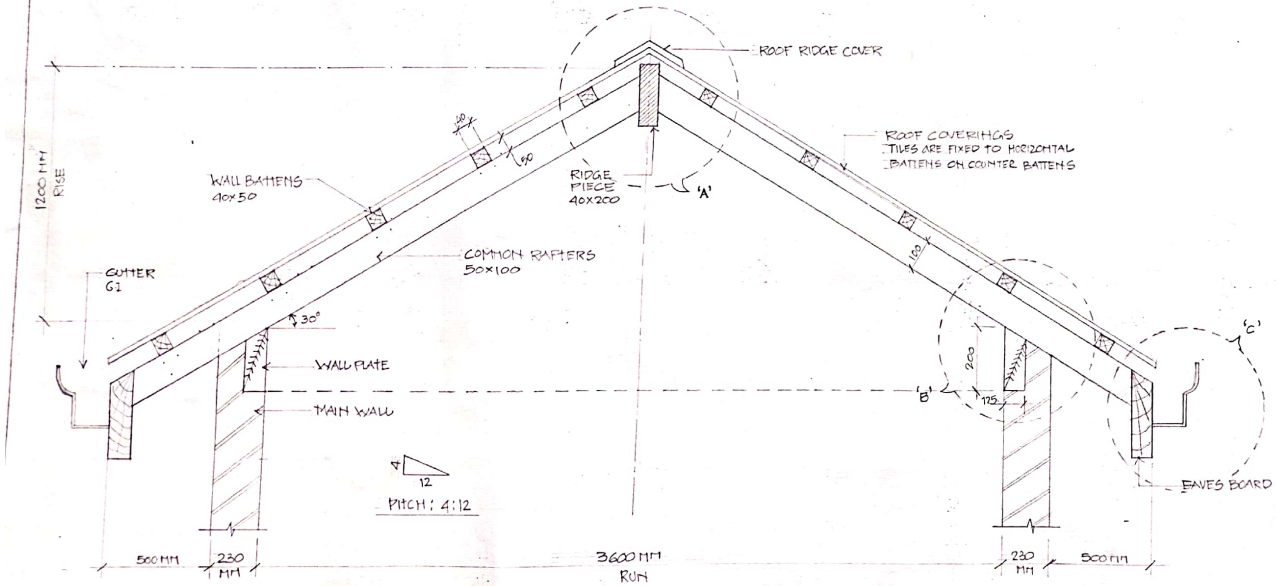
WALL TOP CHORD
DETAIL - E



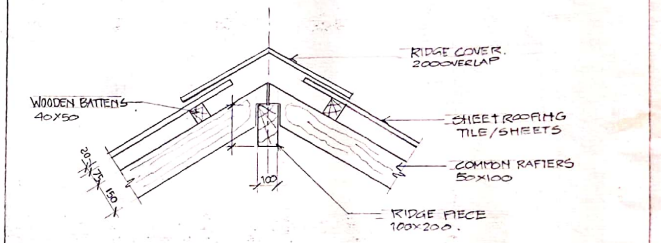
WALL PLATE DETAIL
DETAIL - E



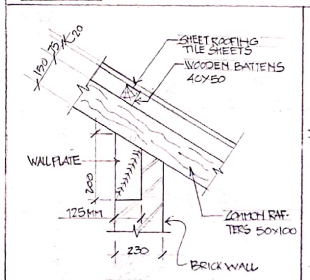
BATTEN DETAIL
DETAIL-G



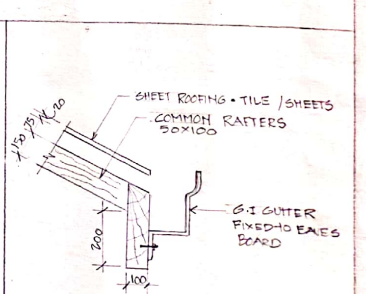
CLOSE COUPLE ROOF



TOP CHORD DETAIL
DETAIL - A



WALL PLATE DETAIL
DETAIL-B

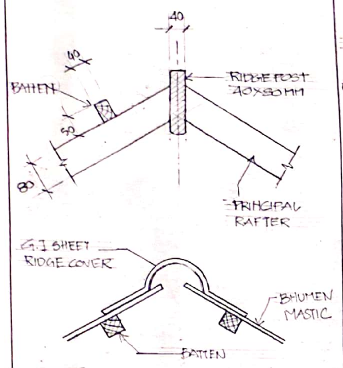


EAVES BOARD DETAIL
DETAIL-C

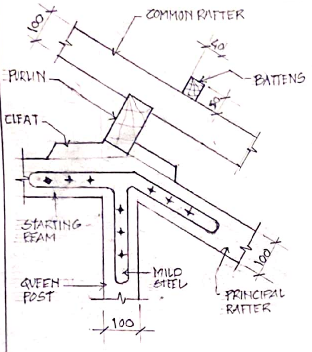
TIMBER TRUSS - 1

SIGN	NAME : V. NISCHAY	SHEET NO
SCHOOL OF ARCHITECTURE	USN NO : 1AA24AT017	01
	SEMESTER : 2ND SEM	
	SUBJECT : MMBC	
	COLLAGE : AHRVSA	

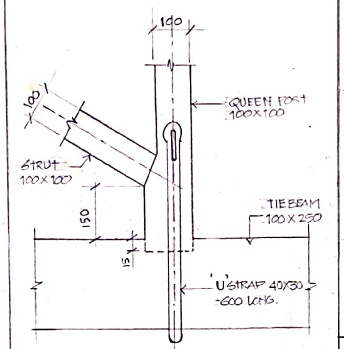
Scanned with OKEN Scanner



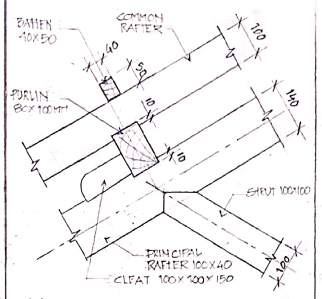
DETAIL-A · FIXING COMMON RAFTER



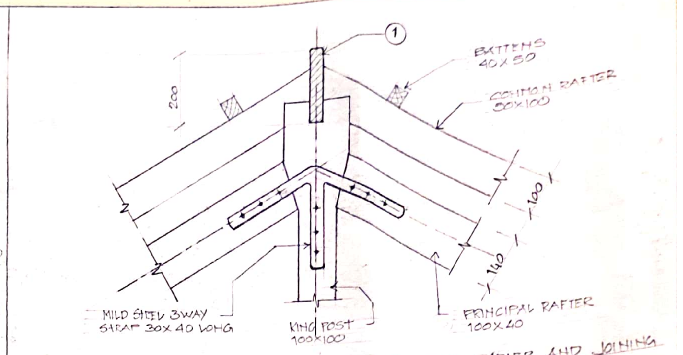
DETAIL-'B' QUEEN POST TO MEMBERS



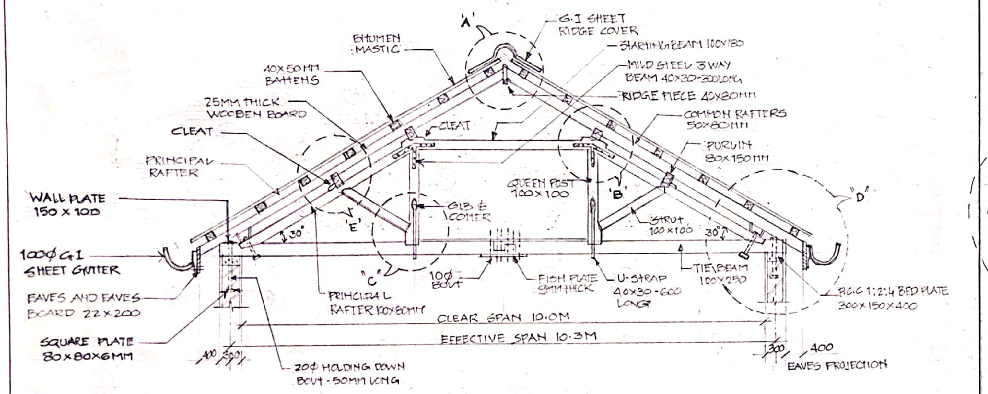
DETAIL-'C' · FIXING QUEEN POST TO MEMBERS



DETAIL OF JOINT SHOWING STRUT FIXING TO PRINCIPAL RAFTER. 1:75

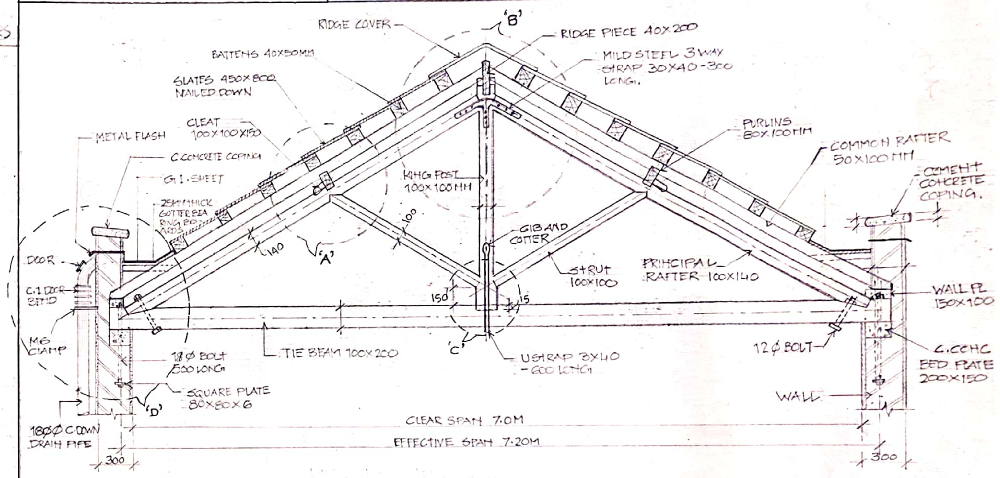


'B' DETAIL OF JOINT SHOWING KING POST TO PRINCIPAL RAFTER AND JOINING TO COMMON RAFTER. 1:75



QUEEN POST TRUSS

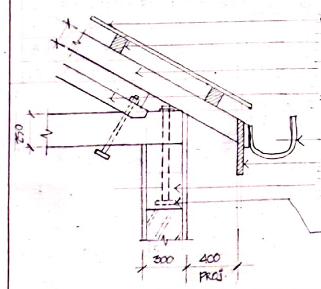
SCALE : 1:50

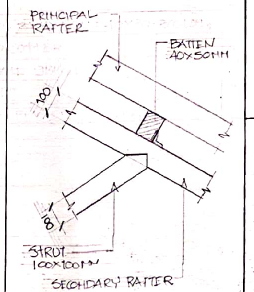


KING POST TRUSS

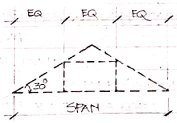
SCALE 1:50

DETAIL - D



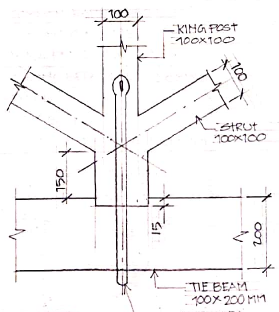


DETAIL - E

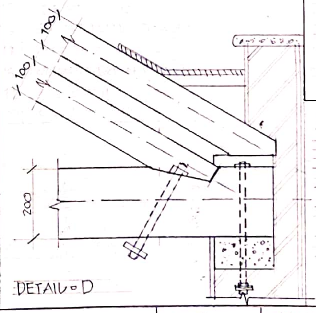


QUEEN POST :

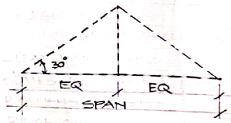
A QUEEN POST IS A TENSION MEMBER IN A TRUSS THAT CAN SPAN LONGER OPENINGS THAN A KING POST TRUSS. A KING POST TRUSS USES A CENTRAL SUPPORTING POST. WHERAS QUEEN POST TRUSSES USE TWO. EVEN THOUGH IT IS A TENSION MEMBER, RATHER THAN A COMPRESSION MEMBER, THEY ARE COMMONLY CALED AS POST.



DETAIL-C



DETAIL - D



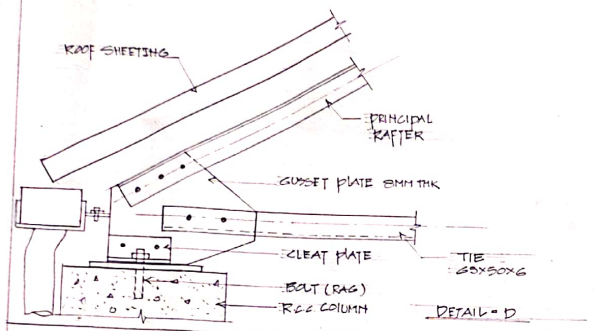
KING POST TRUSS :

A KINGPOST TRUSS IS A STRUCTURAL FRAMEWORK USED IN ROOF OF INDUSTRIAL, COMMERCIAL AND BRIDGES. FEATURING A CENTRAL VERTICAL MEMBER (THE KING POST) CONNECTS THE APEX OF THE TRUSS TO THE BOTTOM CHORD, CREATING A TRIANGULAR STRUCTURE.

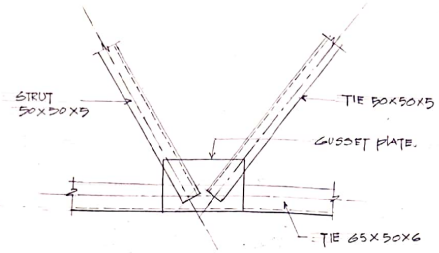
TIMBER TRUSS - 2

SIGN	NAME : V. NISCHAY	SHEET NO
	USN NO : 1AA24A TO 17	02
	SEMESTER : 2ND SEM	
	SUBJECT : MMBC	
	COLLAGE : AMRVSA	

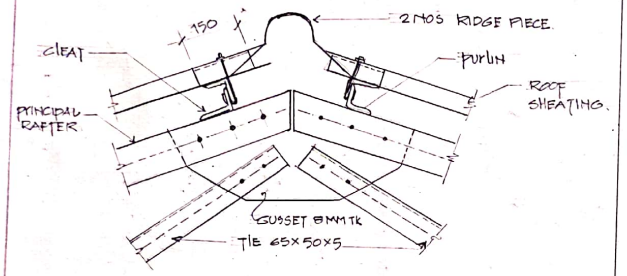
Scanned with OKEN Scanner



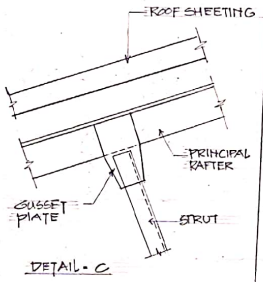
DETAIL - D



DETAIL - B



DETAIL - A

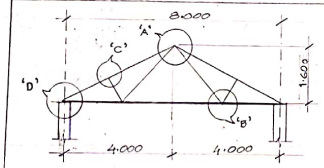


DETAIL - C

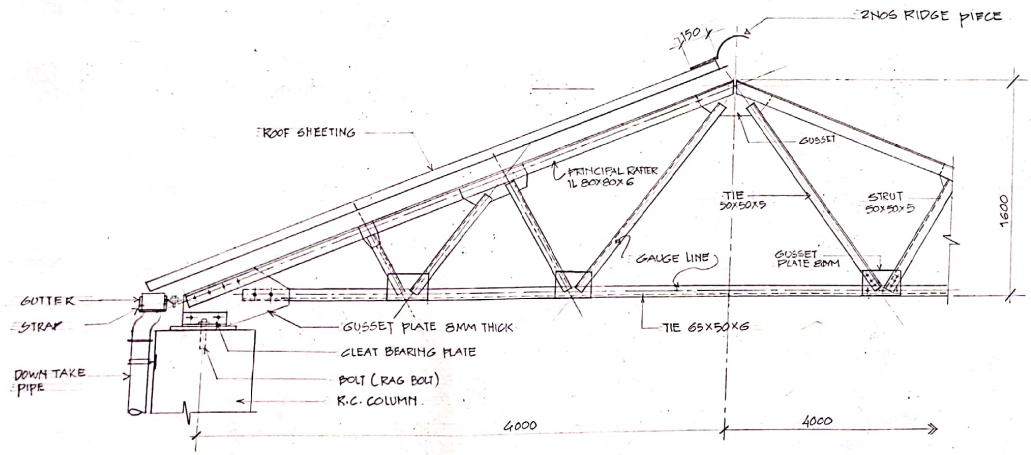
DEFINITION: TRUSSES:

A STRUCTURAL FRAMEWORK COMPOSED OF STRAIGHT MEMBERS CONNECTED AT JOINTS, TYPICALLY FORMING TRIANGLES. THIS DESIGN ALLOWS FOR EFFICIENT LOAD DISTRIBUTION AND IS COMMONLY USED IN BRIDGES, INDUSTRIAL, COMMERCIAL ROOFS AND OTHER STRUCTURES DUE TO ITS STRENGTH AND STABILITY

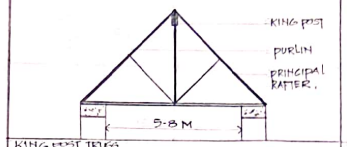
TYPES OF TRUSSES →



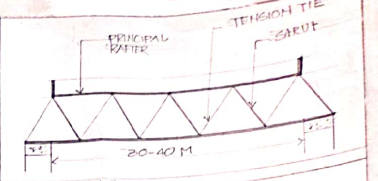
KEY ELEVATION



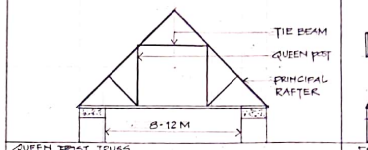
SIMPLE FINK TRUSS



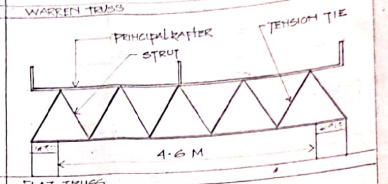
KING POST TRUSS



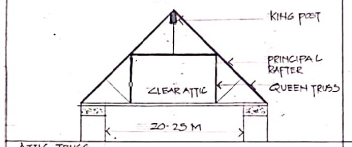
WARREN TRUSS



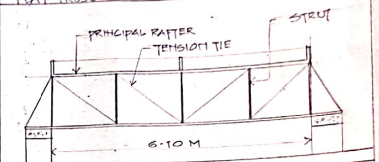
QUEEN POST TRUSS



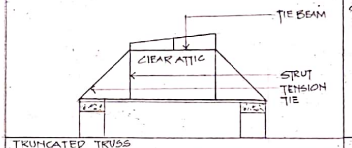
FLAT TRUSS



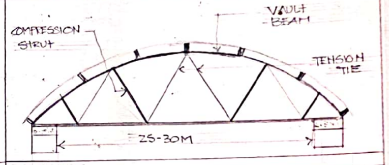
ATTIC TRUSS



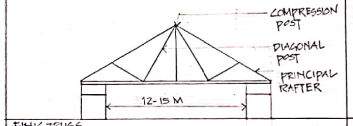
PRATT TRUSS



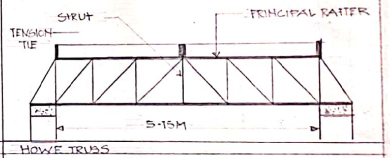
TRUNCATED TRUSS



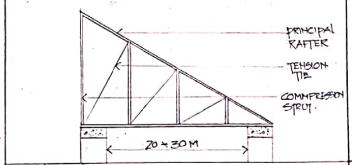
BRUSSAT



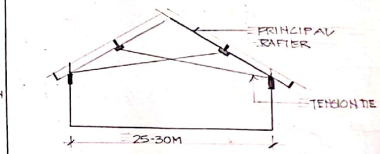
FINK TRUSS



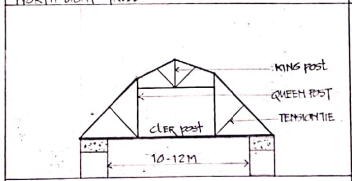
HOWE TRUSS



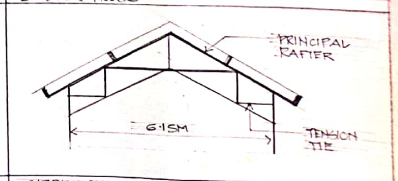
NORTH LIGHT TRUSS



SCISSOR TRUSS



MANSARD TRUSS

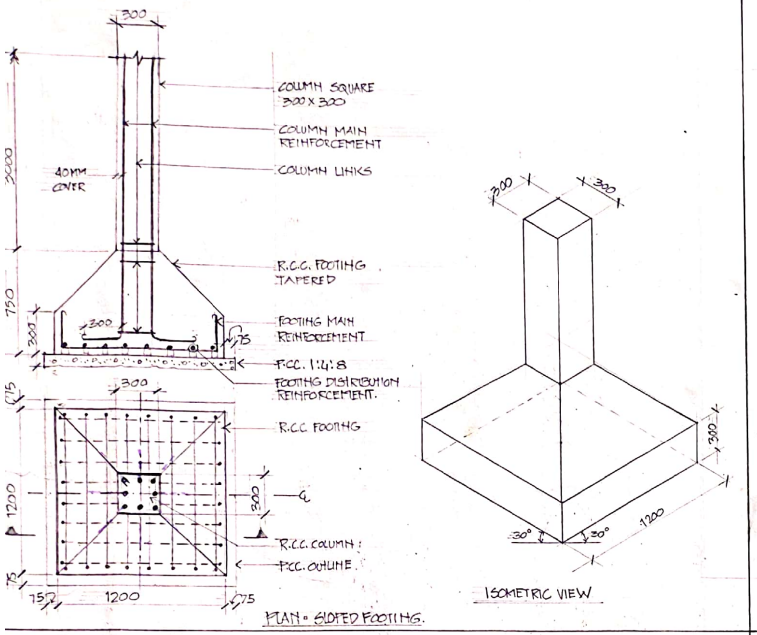


GIRDER TRUSS

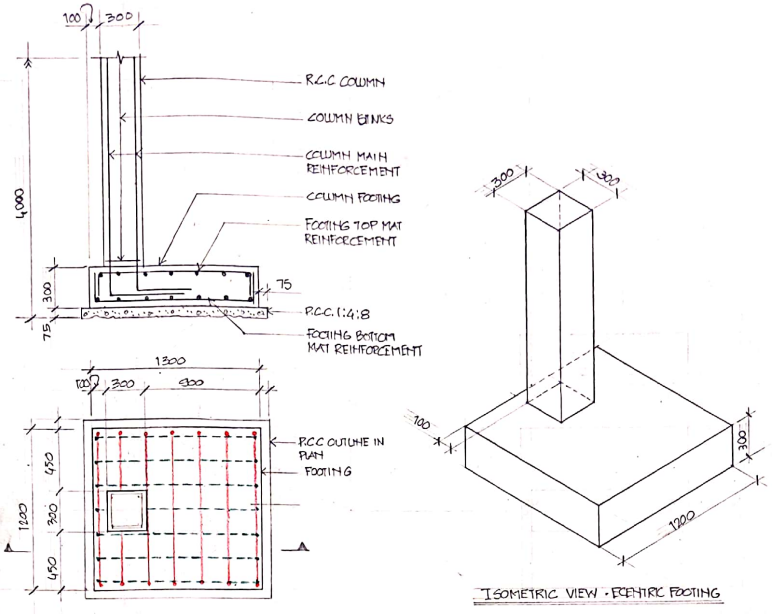
STEEL TRUSS

SIGN	NAME: V. NISCHAY	SHEET NO
	USN NO: 1AA24AT017	03
	SEMESTER: 2ND SEM	
	SUBJECT: MMBC	
	COLLAGE: AHRVSA	

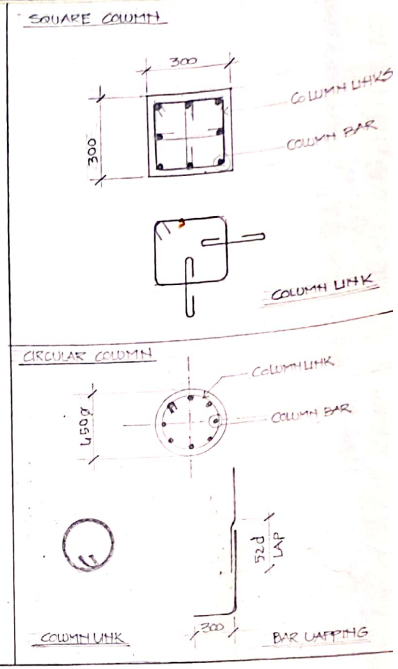
Scanned with OKEN Scanner

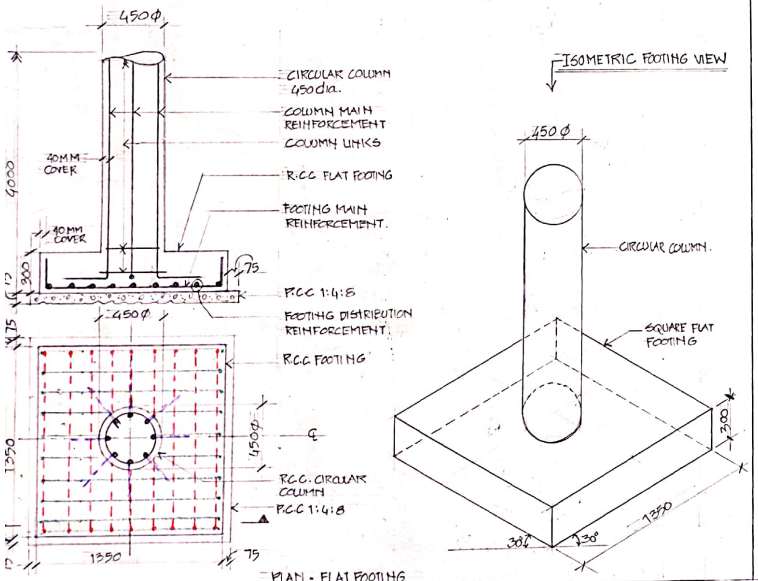


PLAN - SLOPED FOOTING.

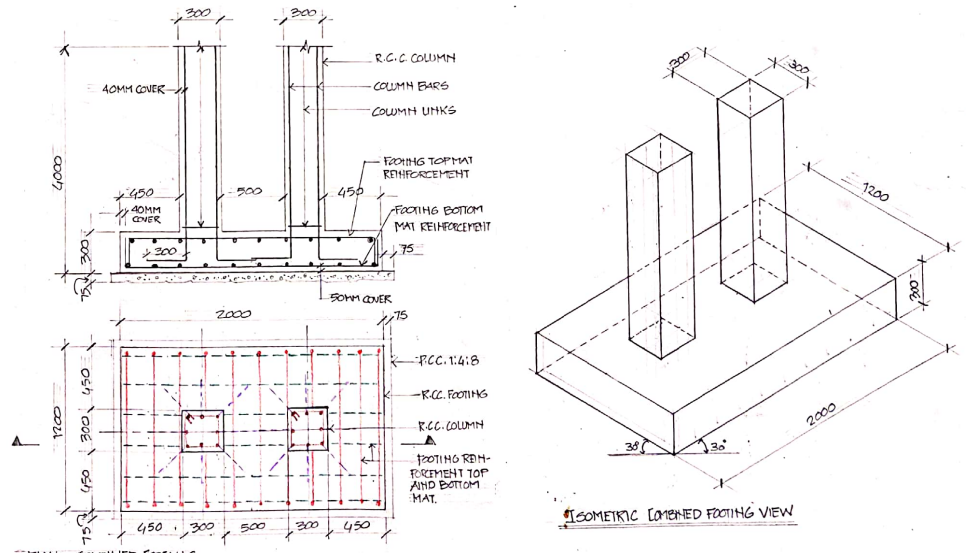


PLAN - ECENTRIC FOOTING





PLAN - FLAT FOOTING

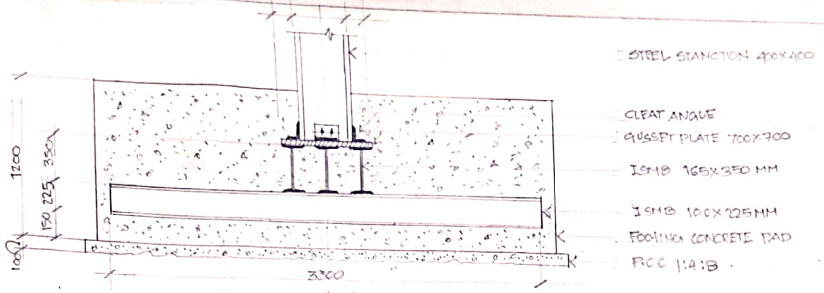


PLAN - COMBINED FOOTING.

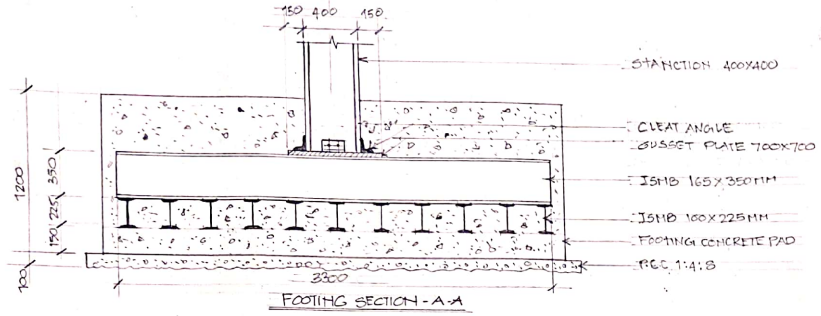
RCC FOUNDATION

SIGN	NAME : V. NISCHAY	SHEET N
	USN NO : 1AA24A TO 17	
	SEMESTER : 2ND SEM	
	SUBJECT : MMEC	
	COLLEGE : AHRVSA	04

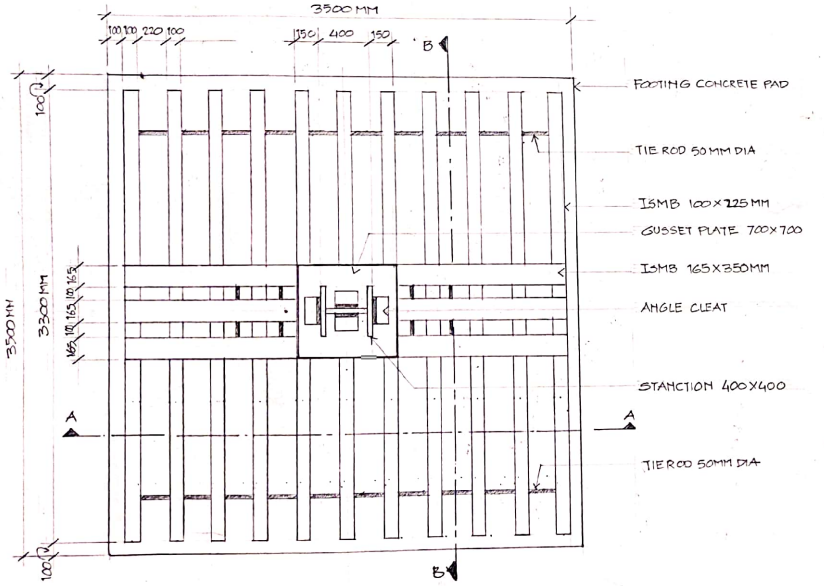
Scanned with OKEN Scanner



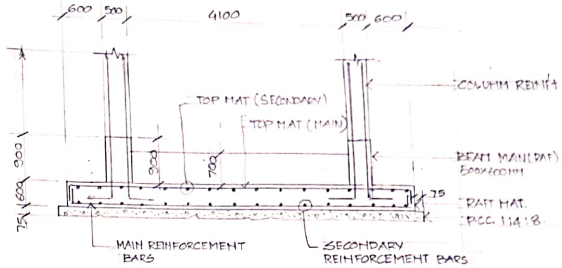
FOOTING SECTION B-B



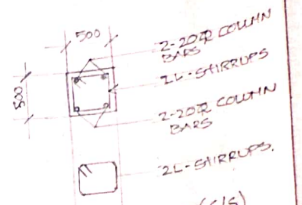
FOOTING SECTION - A-A



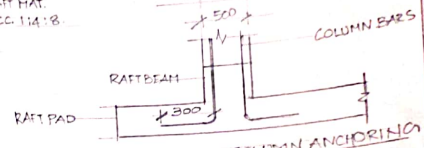
STEEL GRILLAGE FOUNDATION - PLAN



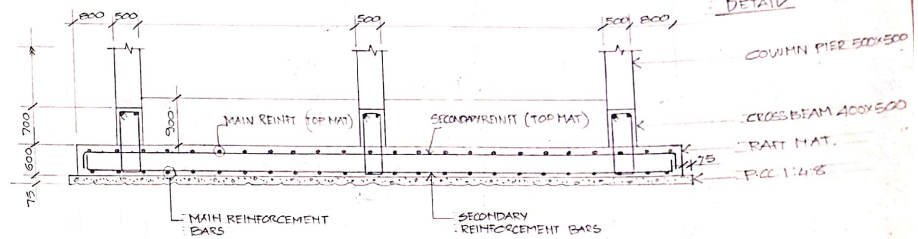
FOOTING SECTION - 2



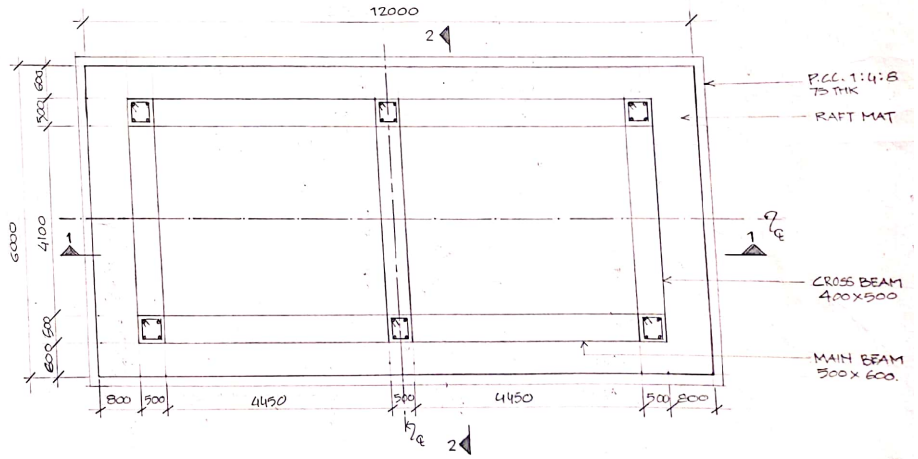
COLUMN DETAILS (C/S)



COLUMN ANCHORING DETAIL



FOOTING SECTION - 1



RAFT FOUNDATION PLAN

GRILLAGE / RAFT FOUNDATION

SIGN	NAME: V. NISCHAY USN NO: 1AA24A TO 17 SEMESTER: 2ND SEM SUBJECT: MMBC COLLAGE: AHRVSA	SHEET 05

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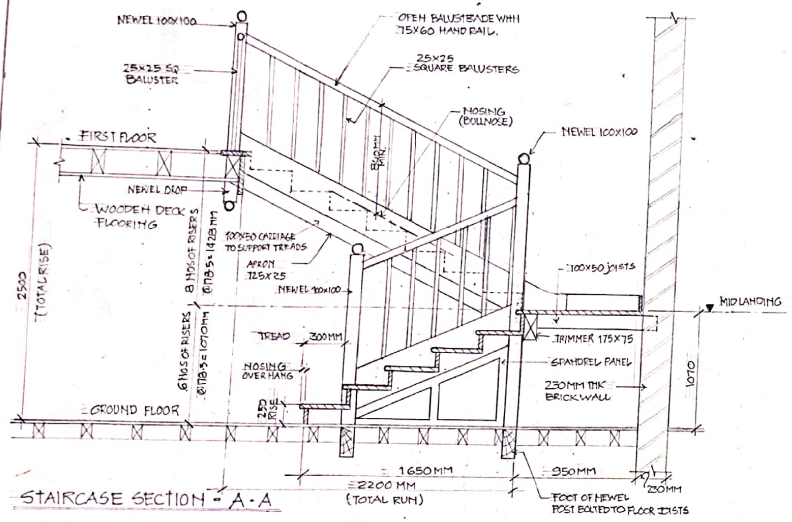
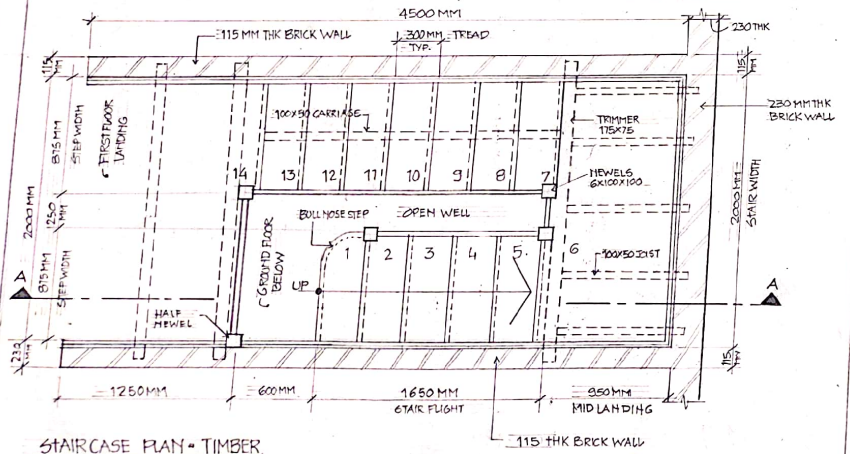
STAIRCASES - TIMBER STAIRCASE

- OPEN WELL - STAIRS
- TREAD = 300 MM WIDE
- RISER = 250 MM
- FLIGHT WIDTH = 875 MM
- LANDING (MID) = 950 MM
- STAIR WIDTH = 2000 MM
- STAIR LENGTH = 3000 MM

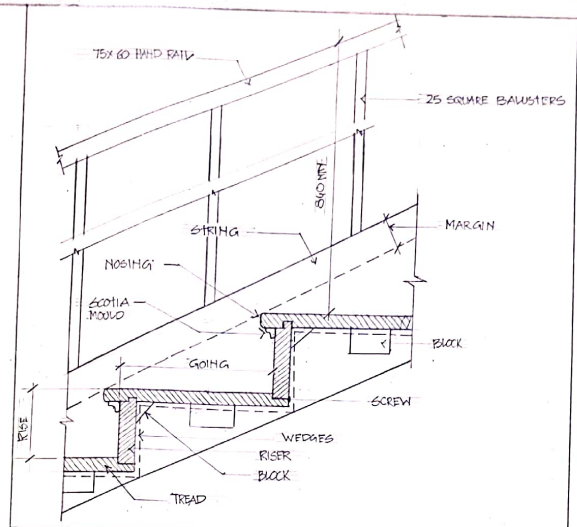
- FLOOR TO FLOOR HEIGHT = 2500 MM HIGH
- RAILING HEIGHT = 840 MM



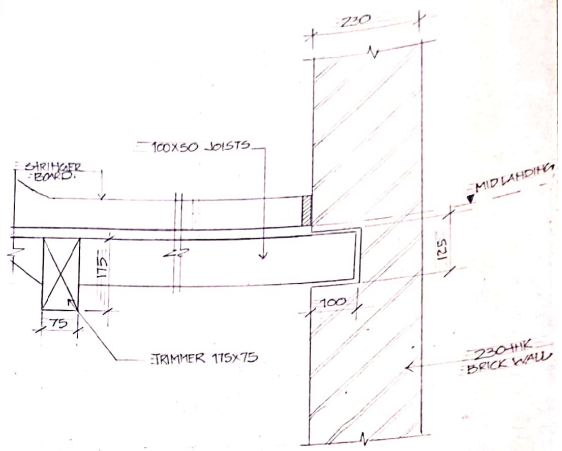
STAIRCASE SECTION - A-A



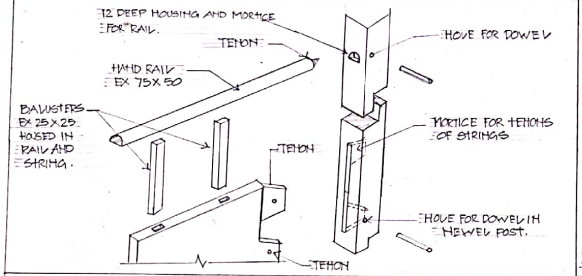
STAIRCASE PLAN - TIMBER

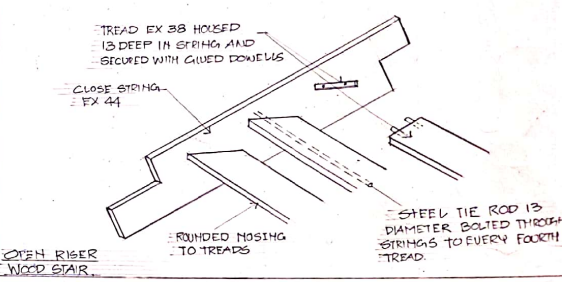


TIMBER STEPS - DETAIL

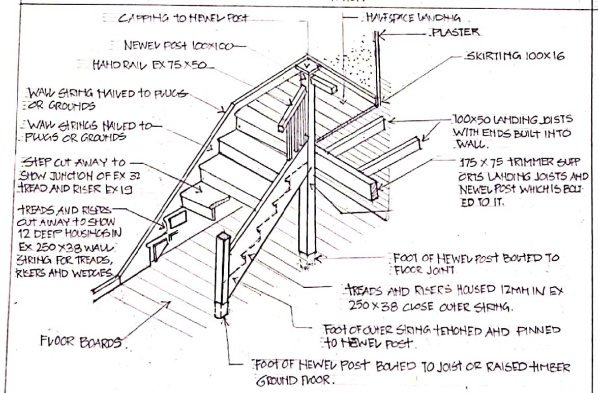


TIMBER LANDING - DETAIL (MID LANDING)

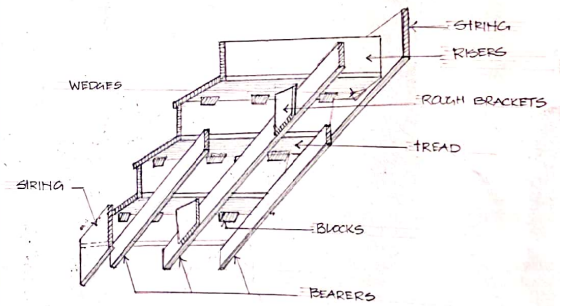




OPEN RISER WOOD STAIR.



VIEW OF LOWER FLIGHT OF HALF TURN STAIRCASE



CONSTRUCTION OF A SIMPLE TIMBER STAIRCASE.

TIMBER STAIRCASE

SIGN	NAME: V. NISCHAY	SHEET NO
	USN NO: 1AA24AT017	06
	SEMESTER: 2ND SEM	
	SUBJECT: MMBC	
	COLLEGE: AHRSVA	

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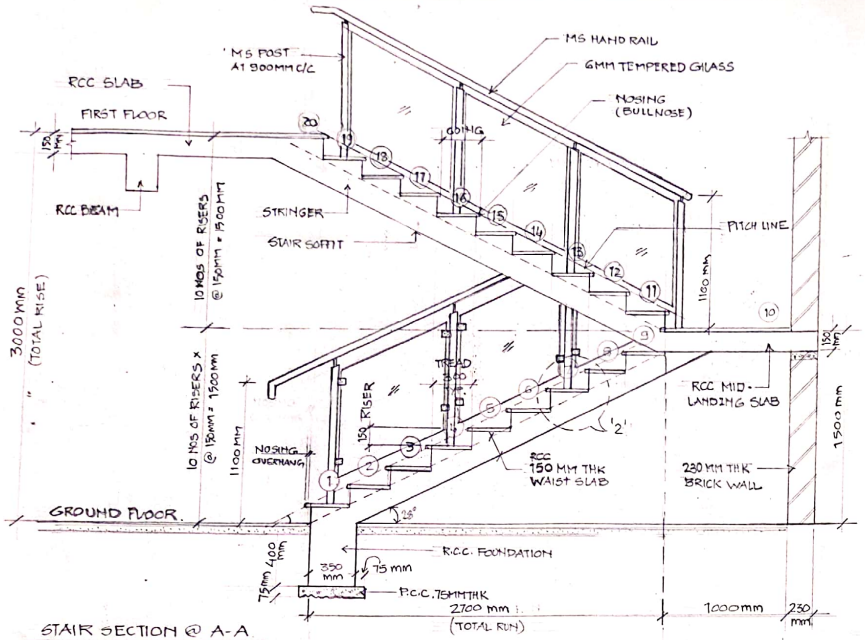
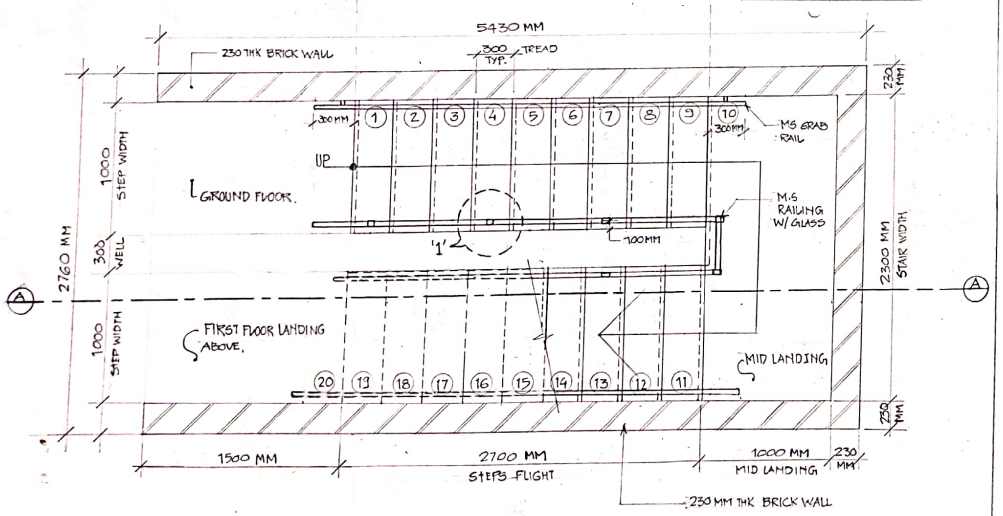
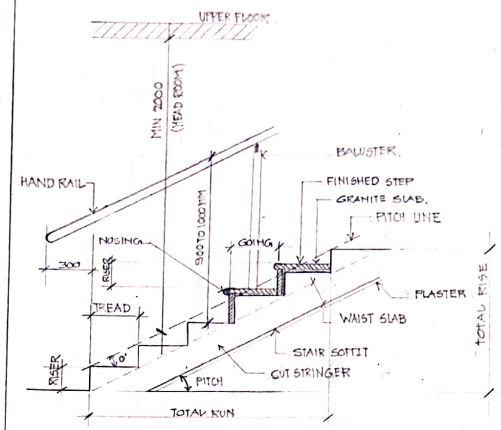


STAIR SECTION @ A-A

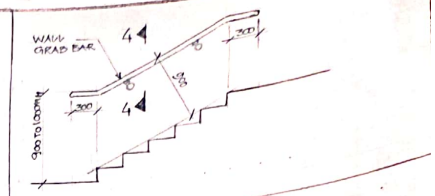
TREAD	300 MM
RISER	150 MM
PITCH	28°
STAIR WIDTH	2300 MM

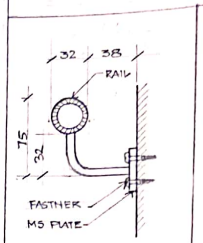


STAIR PLAN

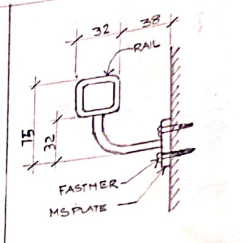


TYPICAL RCC STAIR TERMINOLOGY

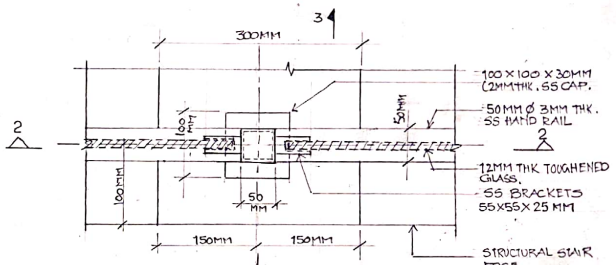




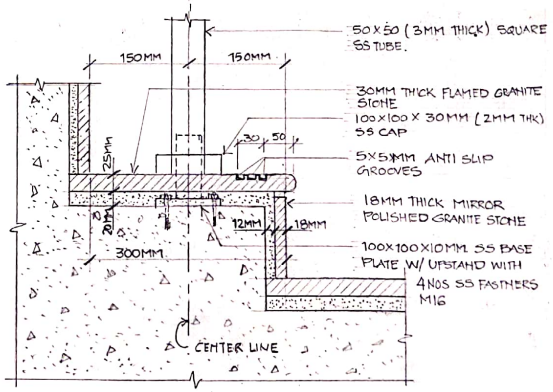
DETAIL - 4 (CIRCULAR GRAB BAR)



DETAIL-4 (SQUARE GRAB BAR)

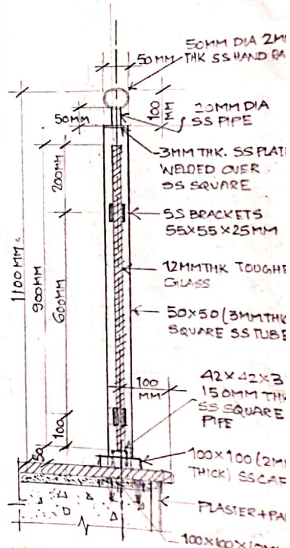


DETAIL-1 RAILING PLAN



DETAIL-2 RAILING SECTION DETAIL

TYPICAL MS HAND RAIL FIXING DETAIL



DETAIL-3 STAIR RAIL

RCC STAIRCASE

SIGN	
NAME :	V. NISCHAY
USN NO :	1AA24AT017
SEMESTER:	2ND SEM
SUBJECT :	MMBC
COLLEGE:	ANRVSA
SHEET NO	07

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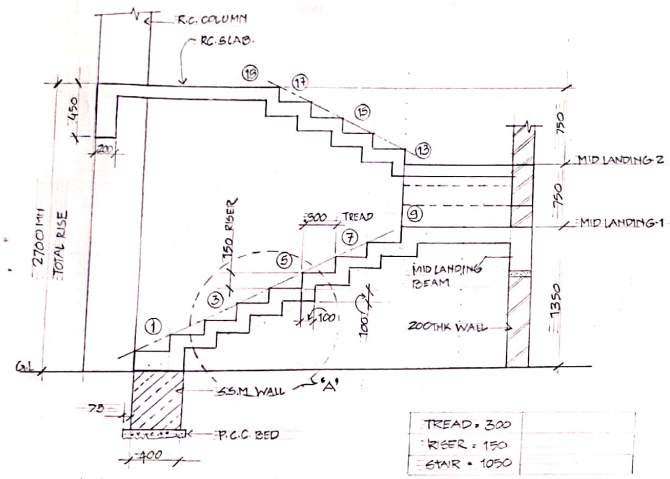
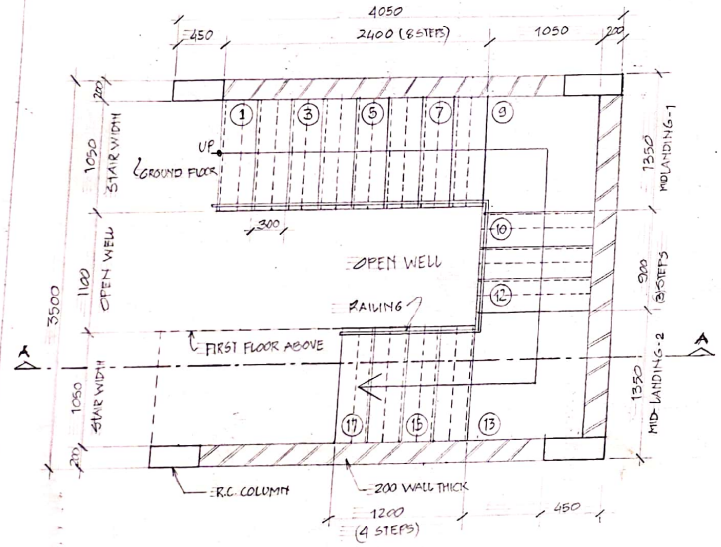
FOLDED PLATE OR CHAIN LINK STAIRCASE

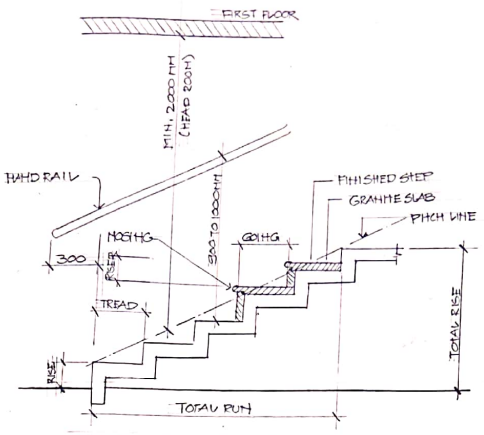


SECTION - A-A

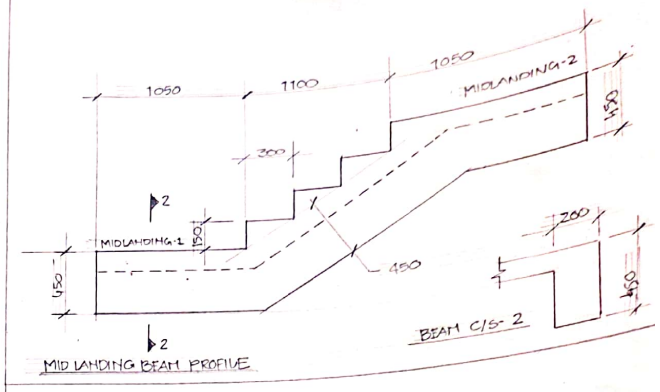


GROUND FLOOR PLAN - OPEN WELL FOLDED PLATE STAIRCASE

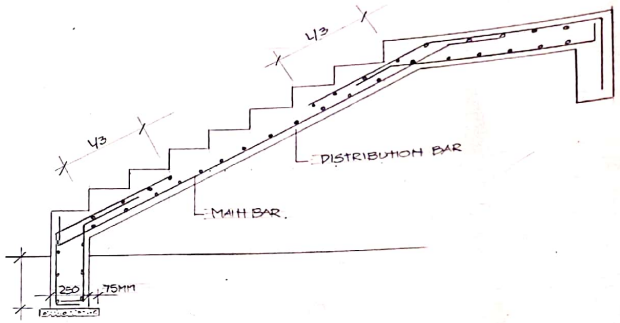
SCALE 1:25



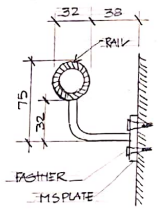
TYPICAL RCC FOLDED PLATE STAIR



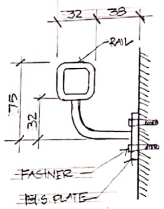
MID LANDING BEAM PROFILE



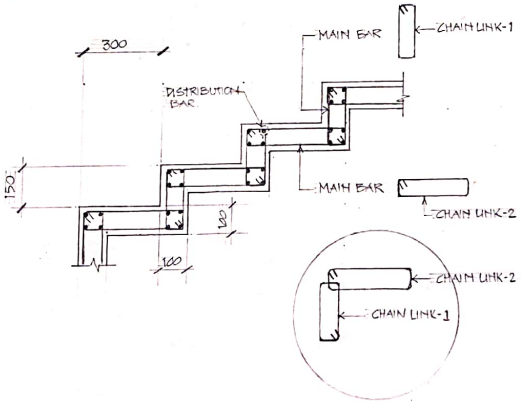
REINFORCEMENT DETAIL - REGULAR FLIGHT STAIRCASE



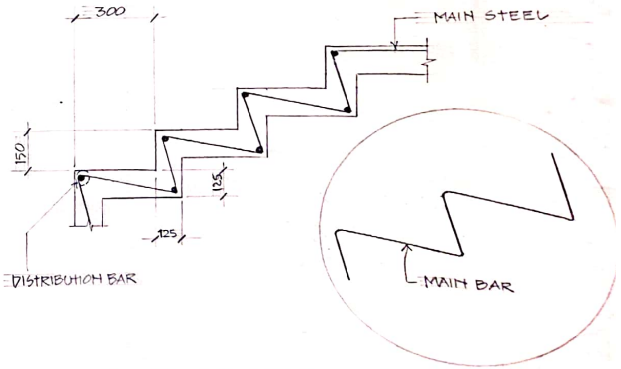
DETAIL - 1 (CIRCULAR GRAB BAR) - WALL



DETAIL - 1 (WALL - SQUARE GRAB BAR)



REINFORCEMENT DETAIL - ALTERNATE - 1 (DETAIL-A)



REINFORCEMENT DETAIL - ALTERNATE - 2 (DETAIL-A)

OPEN WELL - FOLDED PLATE STAIRCASE

SIGN	NAME: V. NISCHAY
	USN NO: 1AA24A TO 17
	SEMESTER: 2ND SEM
	SUBJECT: MMBC
	COLLEGE: AHRVSA
	SHEET NO 08

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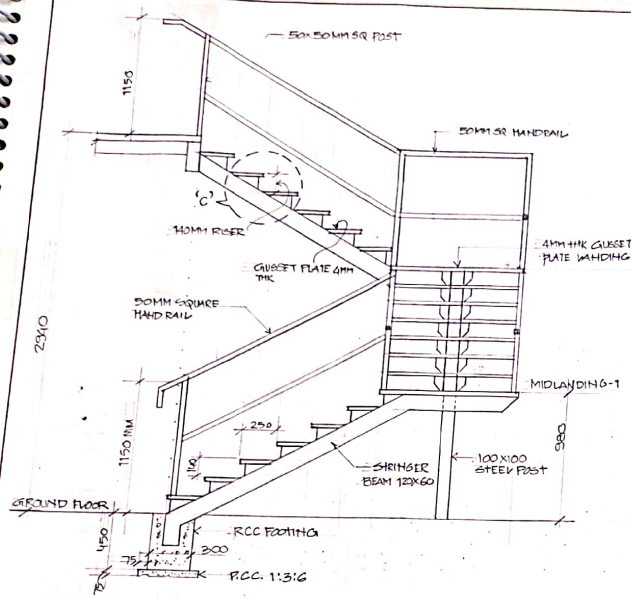
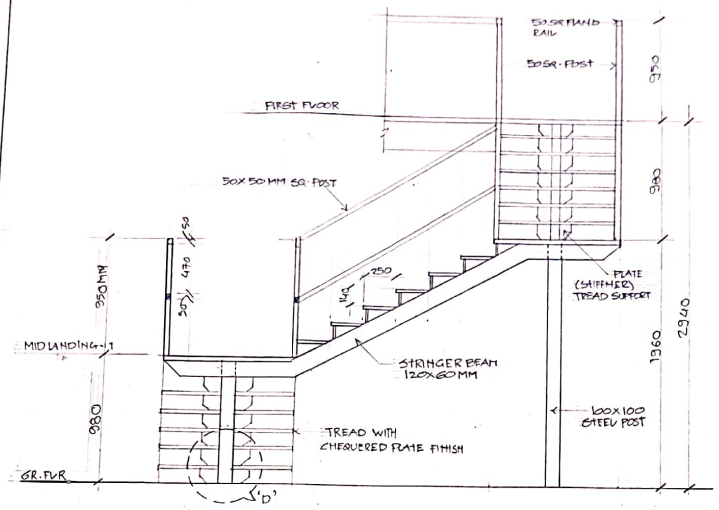


SECTION - A-A - STEEL STAIRCASE



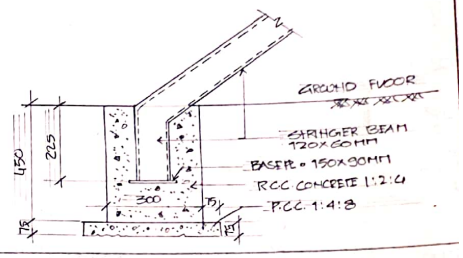
SECTION - F-F. - STEEL STAIRCASE

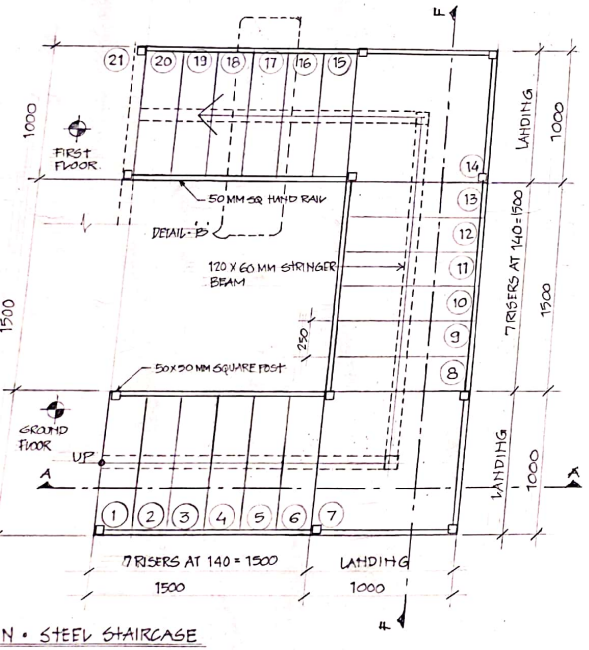
STEEL STAIRCASE DETAIL - EXISTING STUDY

PROJECT:
LOCATION:
TYPE: EXTERIOR STEEL STAIRCASE
SPECIFICATION:

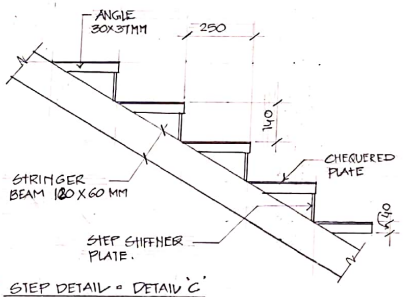
- TYPE: OPEN WELL STAIRCASE - EXTERIOR
- 3500 X 2500 MM STAIR DIMENSION
- STAIR WIDTH = 1000MM, LANDING WIDTH = 1000 MM
- HEIGHT FROM FLOOR = 2940 MM
- RISER = 140 MM
- TREAD = 250 MM
- HAND RAIL = 950 MM
- MATERIAL = MS BOX SECTION, CHEQUERED PLATE.

BASE FOUNDATION - DETAIL

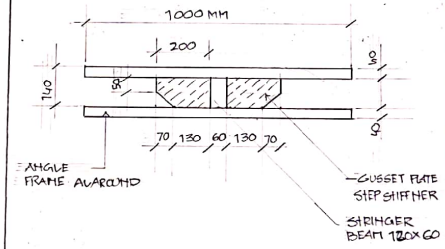




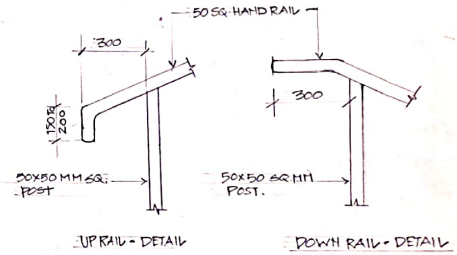
PLAN - STEEL STAIRCASE



STEP DETAIL - DETAIL 'C'

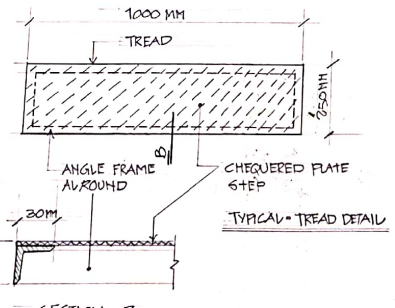


STEP STIFFNER PLATE DETAIL - D-D



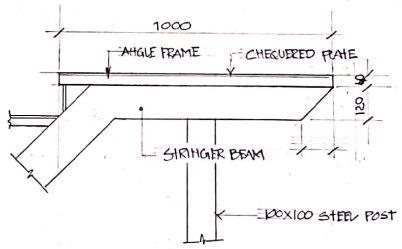
UP RAIL - DETAIL DOWN RAIL - DETAIL

RAILING DETAIL

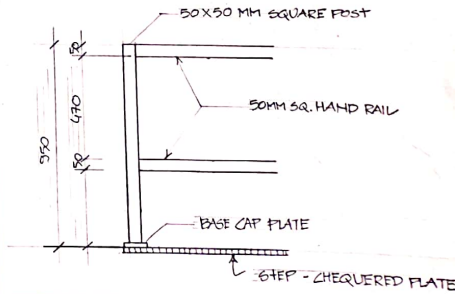


TYPICAL - TREAD DETAIL

SECTION - B.



LANDING SLAB - DETAIL



STAIR RAILING DETAIL.

STEEL STAIRCASE

SIGN	NAME: V. NISCHAY	SHEET NO
	USN NO: 1AA24AT017	0
	SEMESTER: 2ND SEM	
	SUBJECT: MMBC	
	COLLEGE: ANRVSA	

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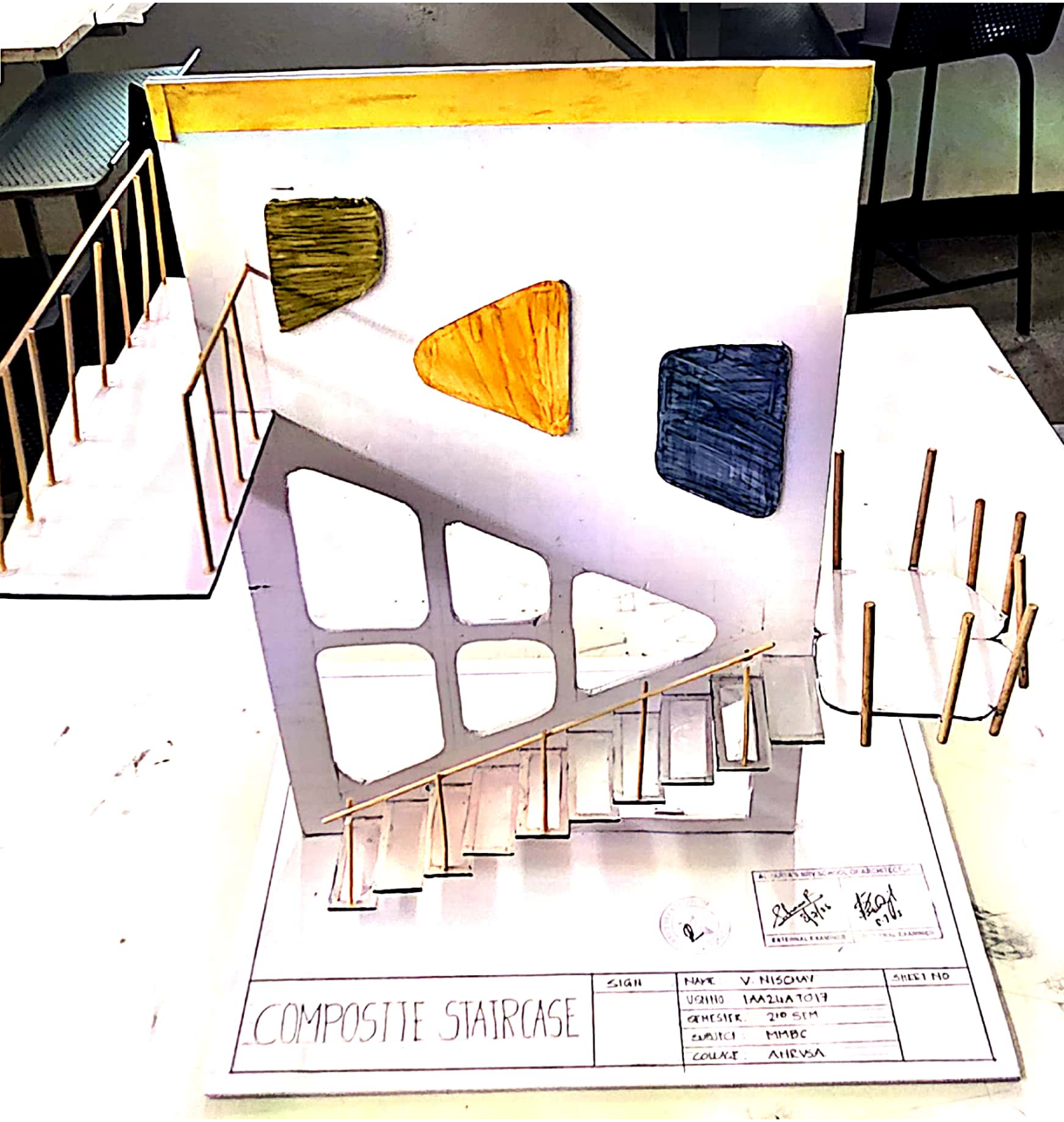

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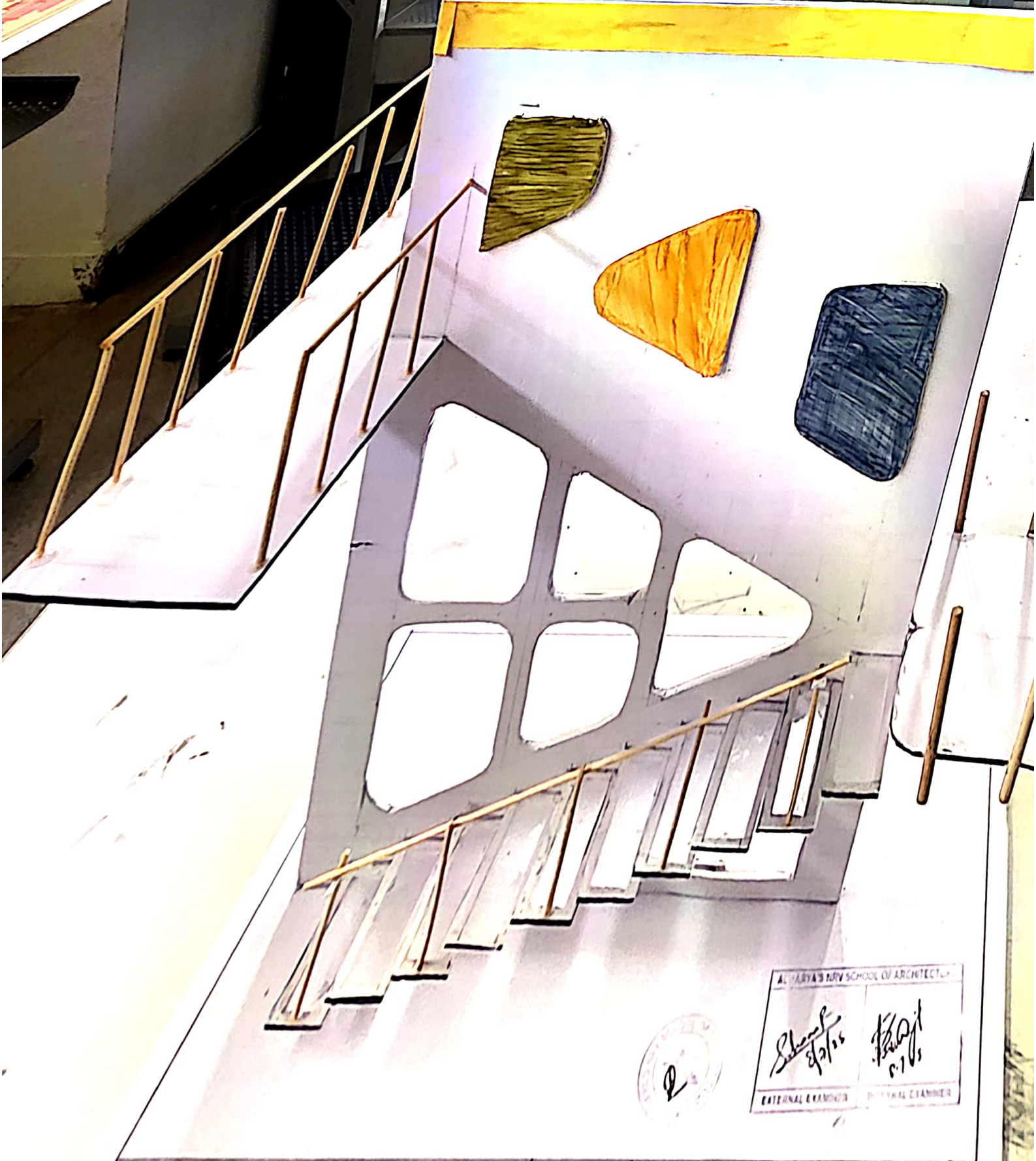

COMPOSITE STAIRCASE	SIGN	NAME: V. NISCHAY	SHEET NO
		USN NO: 1AA24AT017	
		SEMESTER: 2ND SEM	
		SUBJECT: MMBC	
		COLLAGE: ACHRVSA	

Scanned with OKEN Scanner