



STUDENT 'S WORK

ACADEMIC YEAR
2018-2019

First Year B.Arch.

TO

Fifth Year B.Arch.

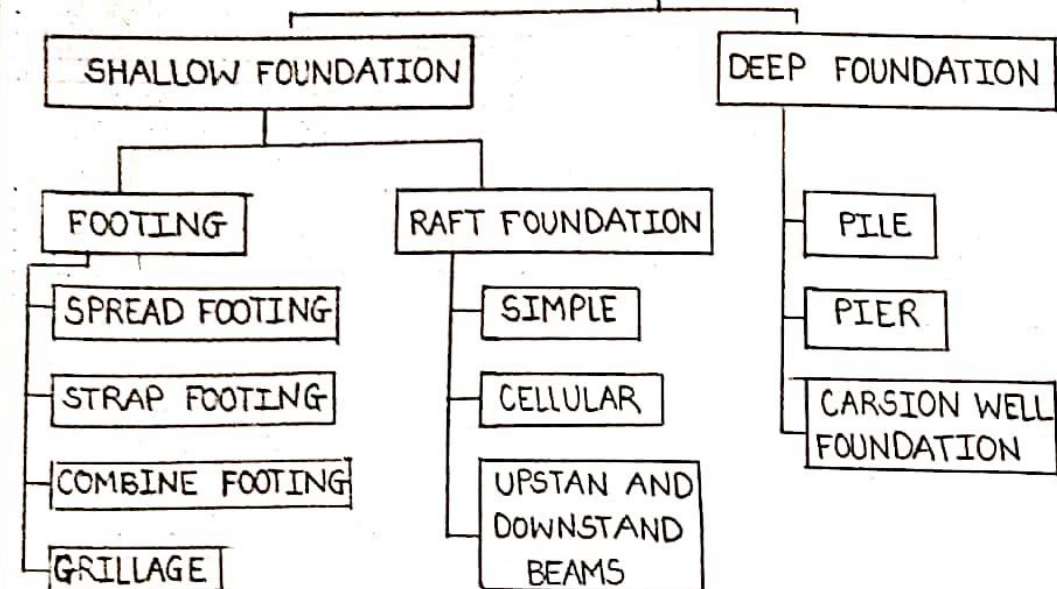


1st Year B.Arch TERM I 2018-2019

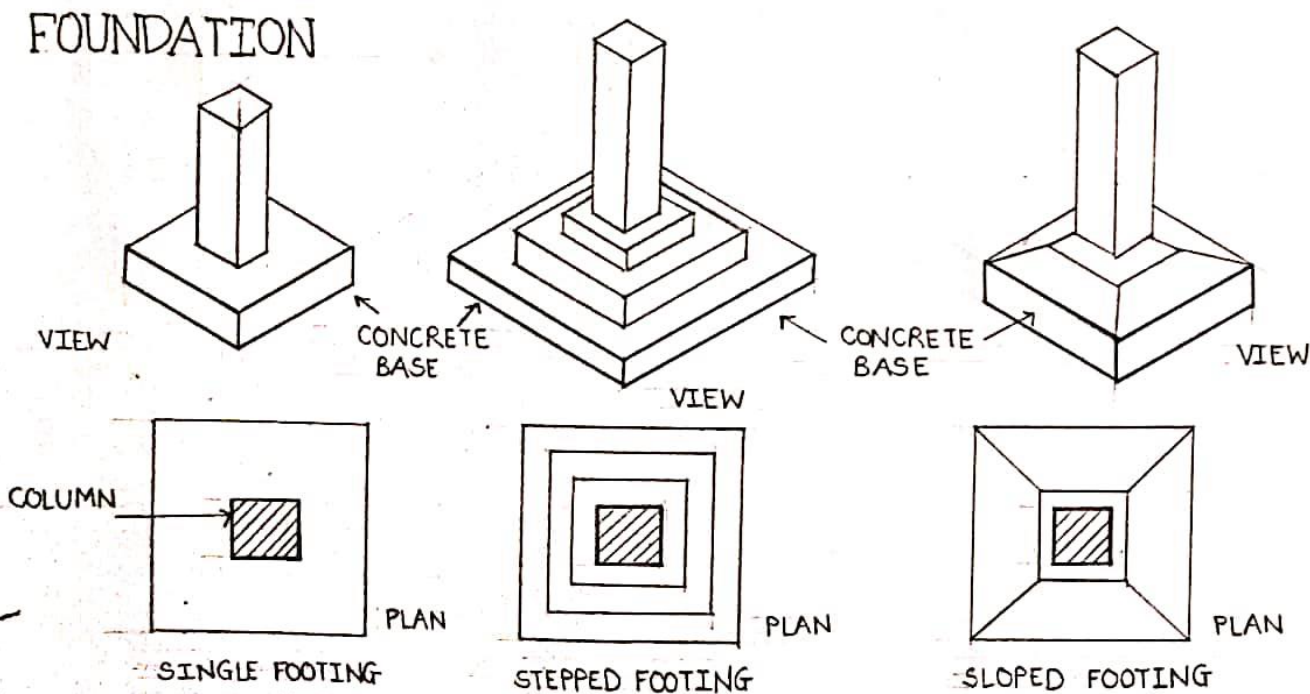
ARCHITETCURAL DESIGN I

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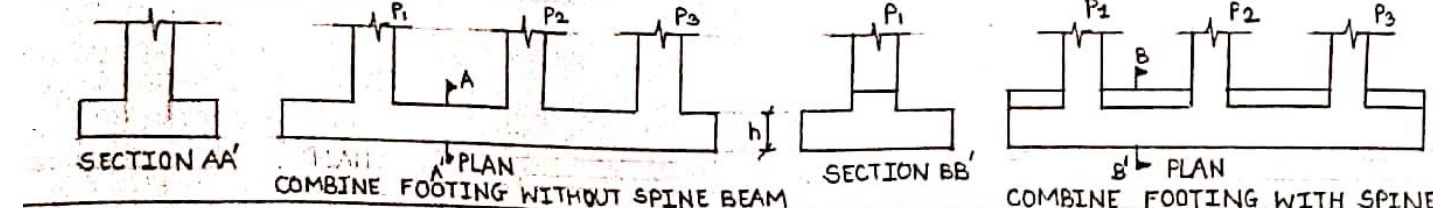
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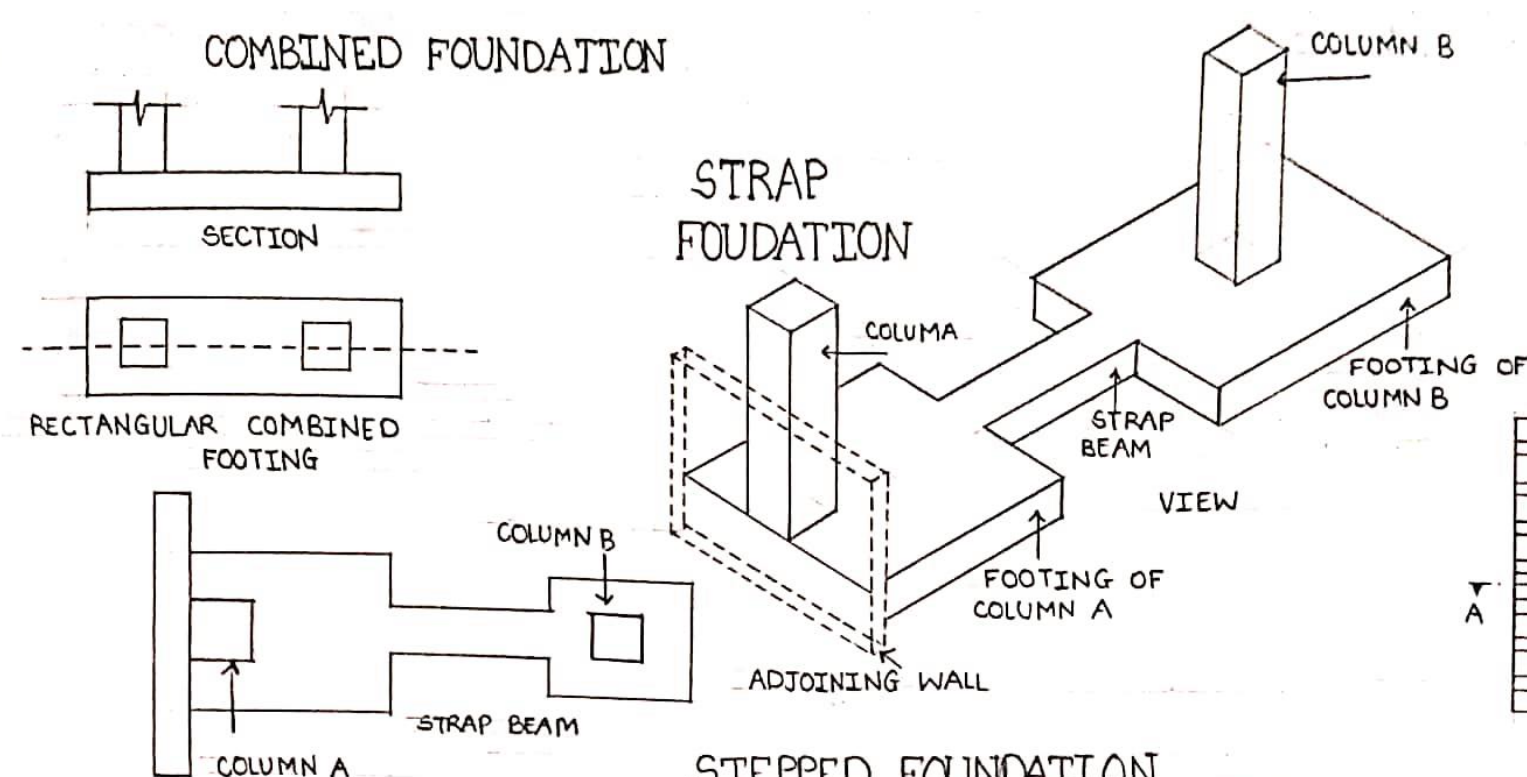
PAD
FOUNDATION



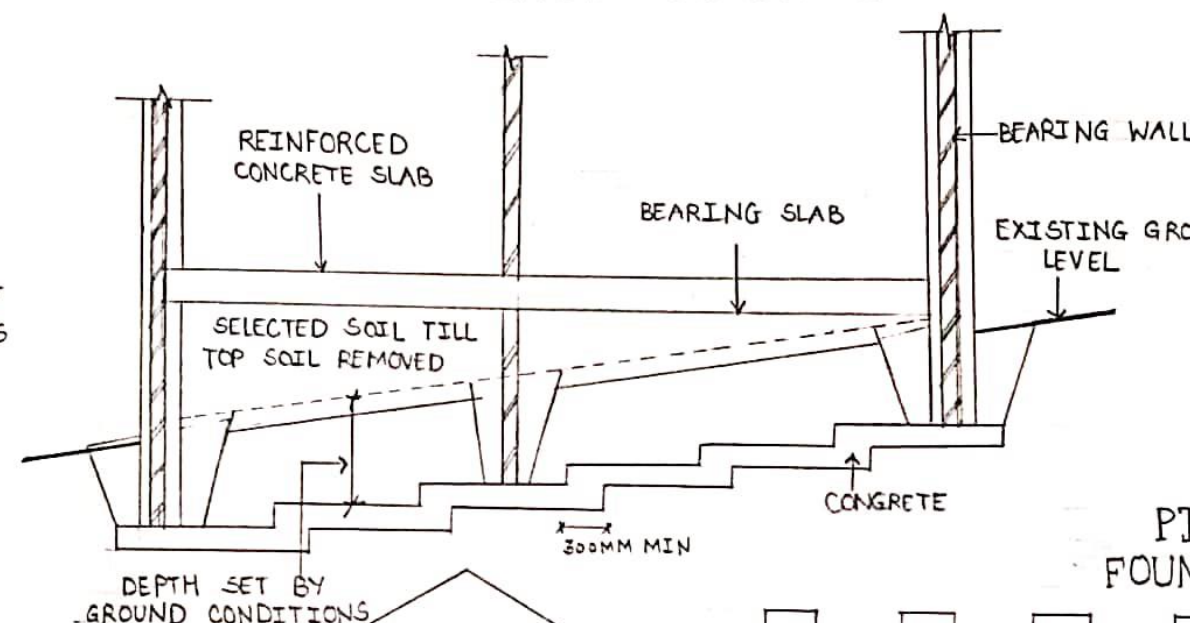
STRIP FOOTING



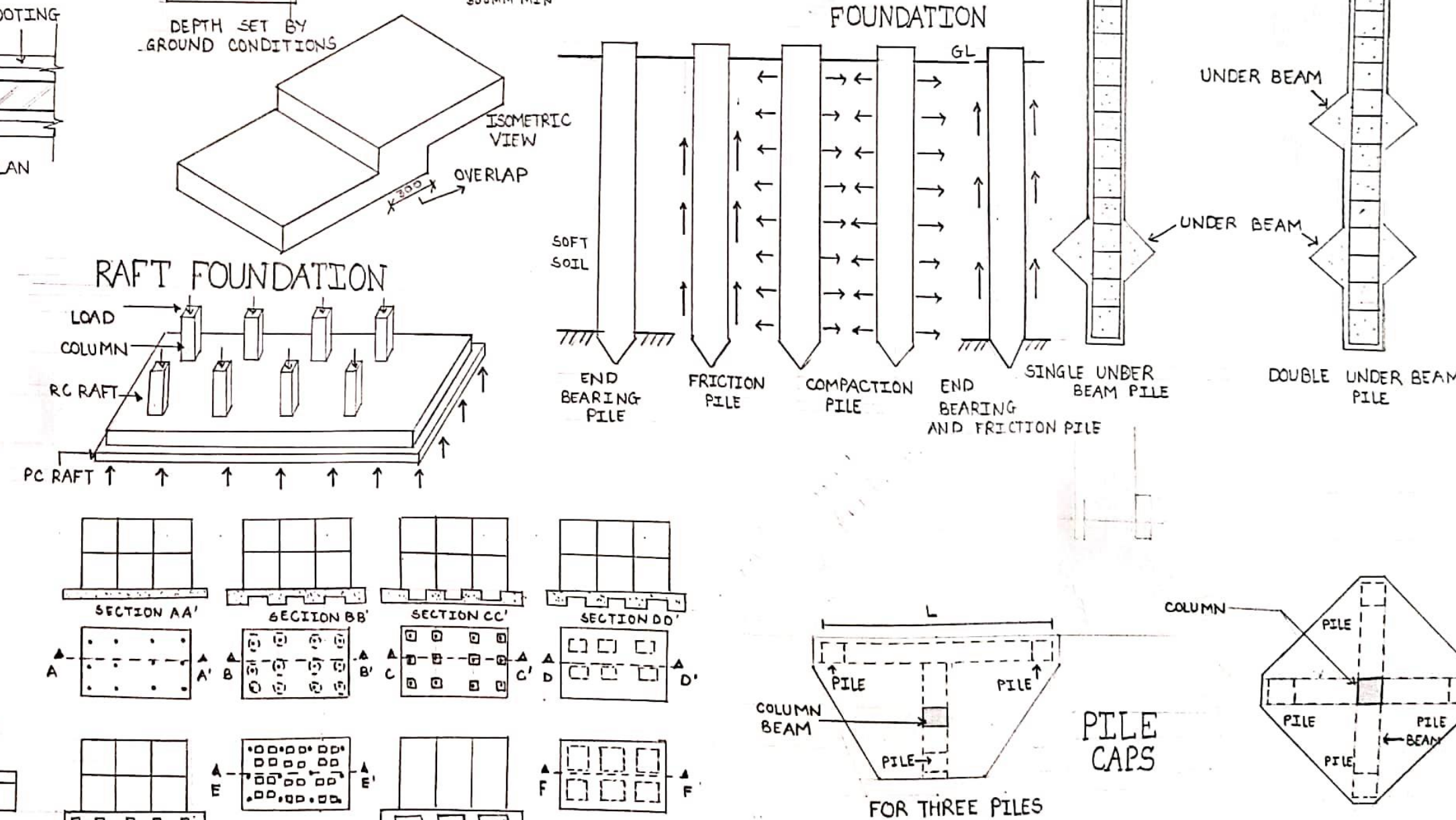
FOUNDATIONS - SHALLOW AND DEEP



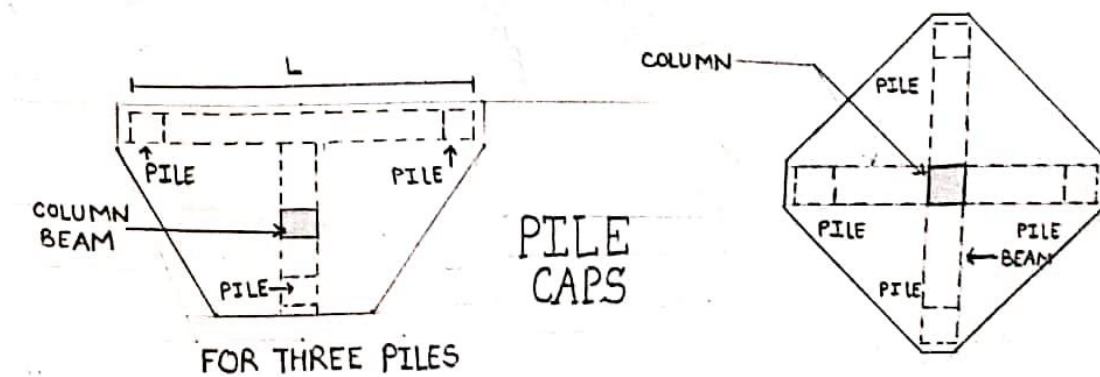
STEPPED FOUNDATION



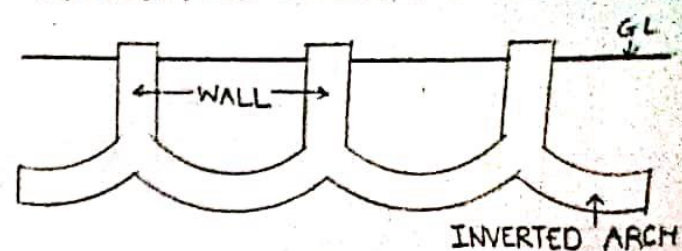
PILE
FOUNDATION



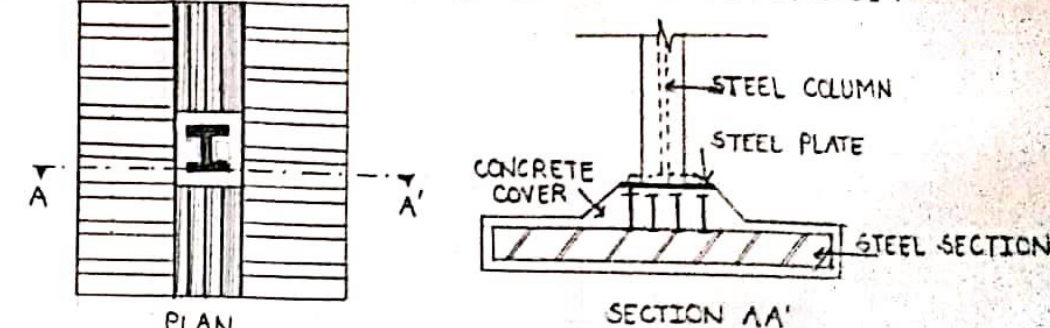
PTLE
CAPS

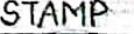


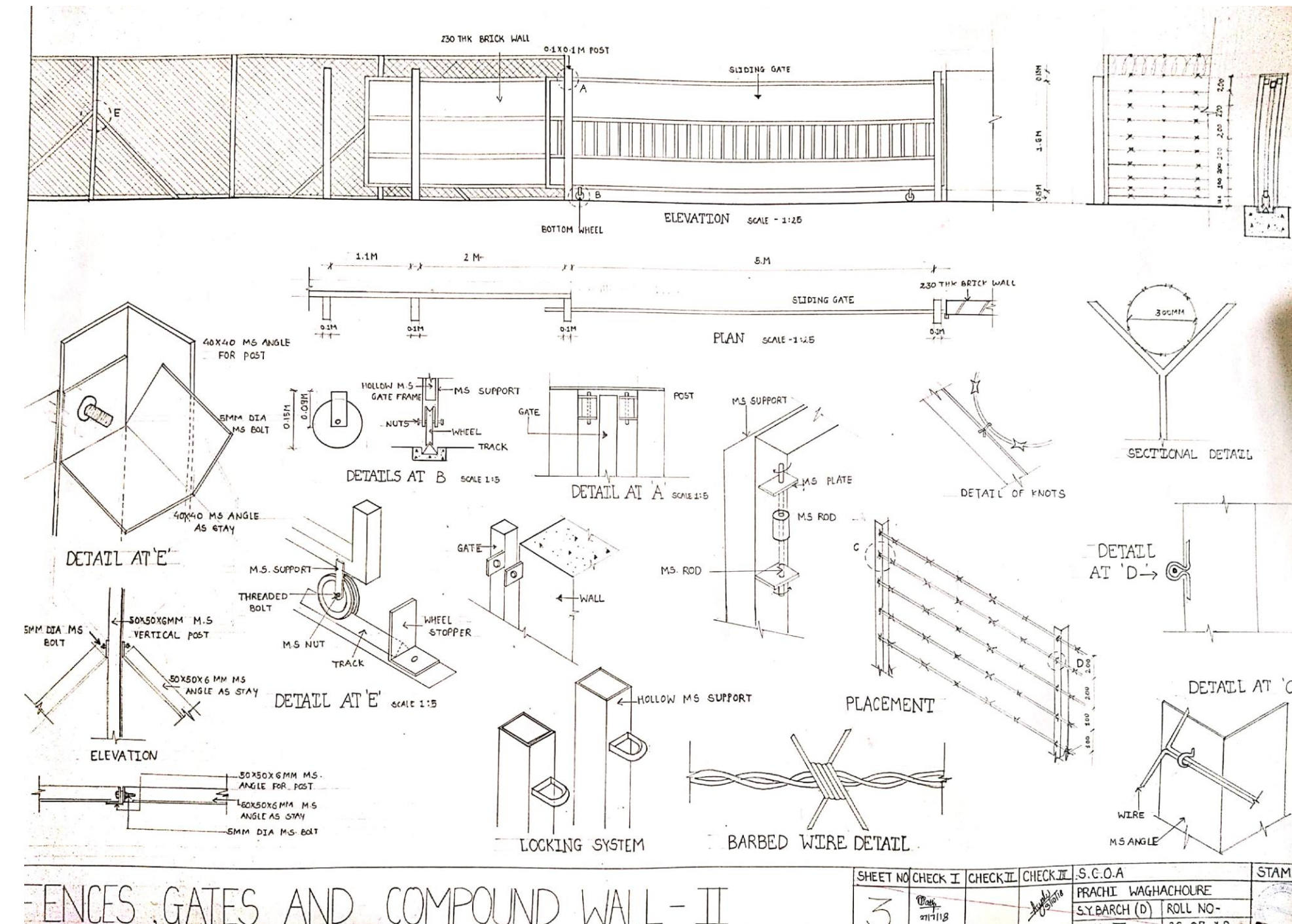
INVERTED ARCH FOOTING



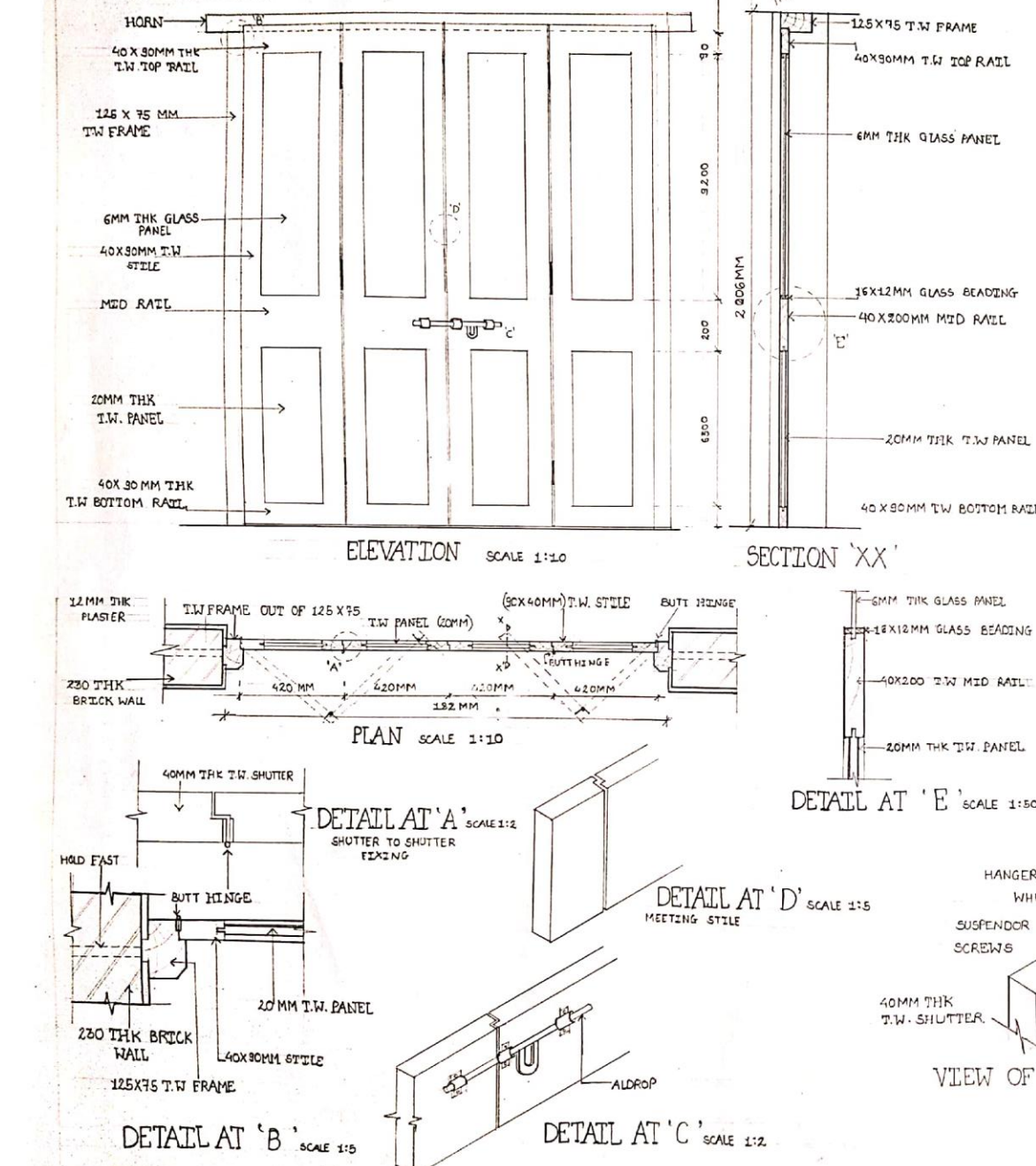
GRILLAGE FOUNDATION



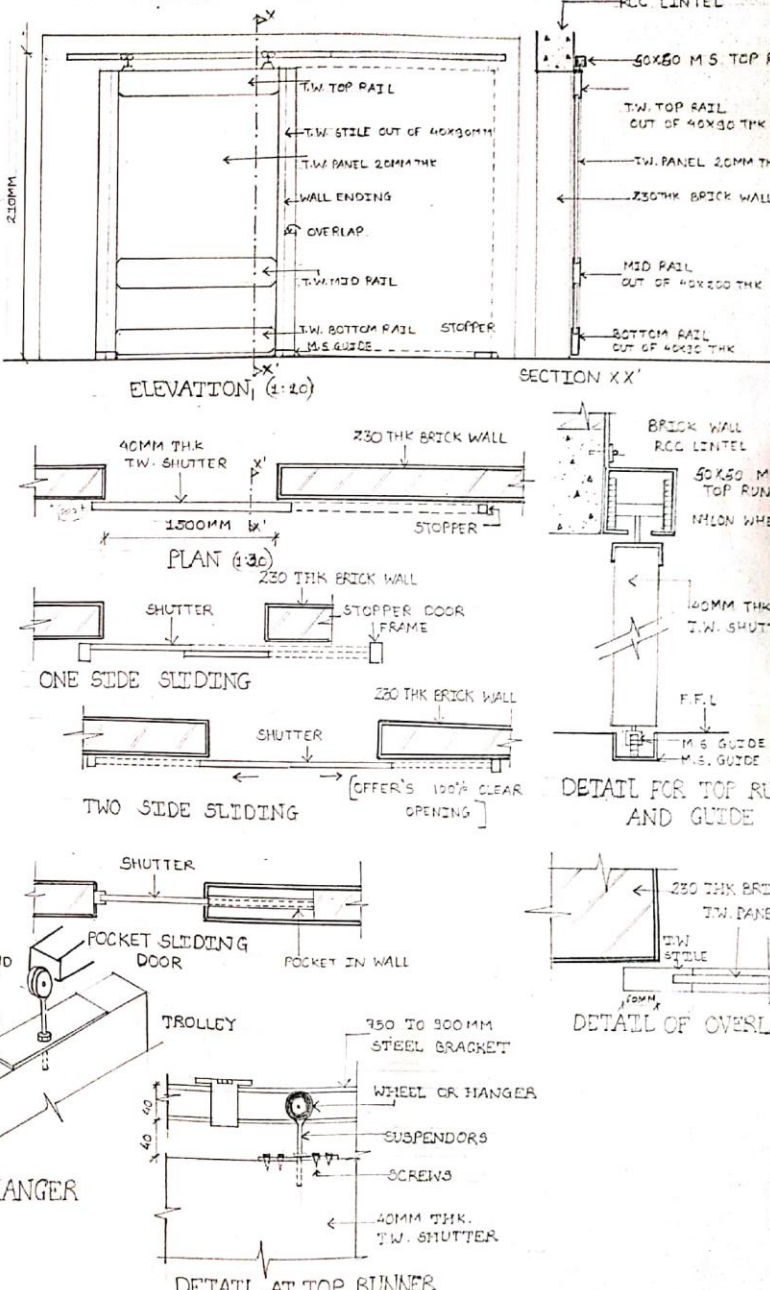
CHECK I <i>Handwritten signature</i>	CHECK II <i>Handwritten signature</i> 22/6/18	CHECK III <i>Handwritten signature</i>	S.C.O.A PRACHI WAGHACHOURE F.Y.BARCH (D) BTM-III	STAMP  ROLL NO- 15-06-18
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T.W FOLDING DOOR



T.W SLIDING DOOR

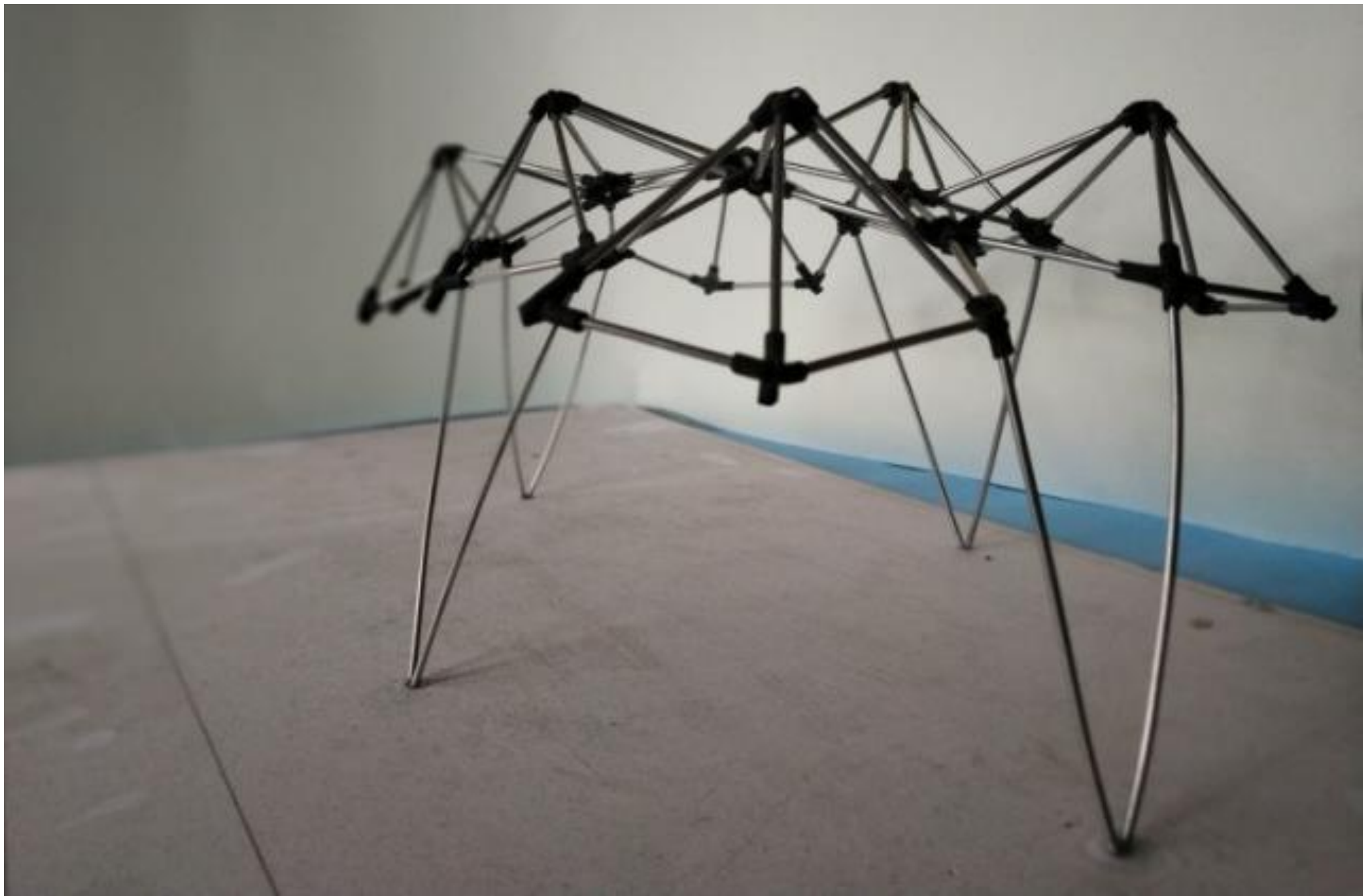


TW FOLDING AND TW SITTING DOOR

1st Year B.Arch TERM I 2018-2019

BUILDING TECHNOLOGY AND MATERIALS

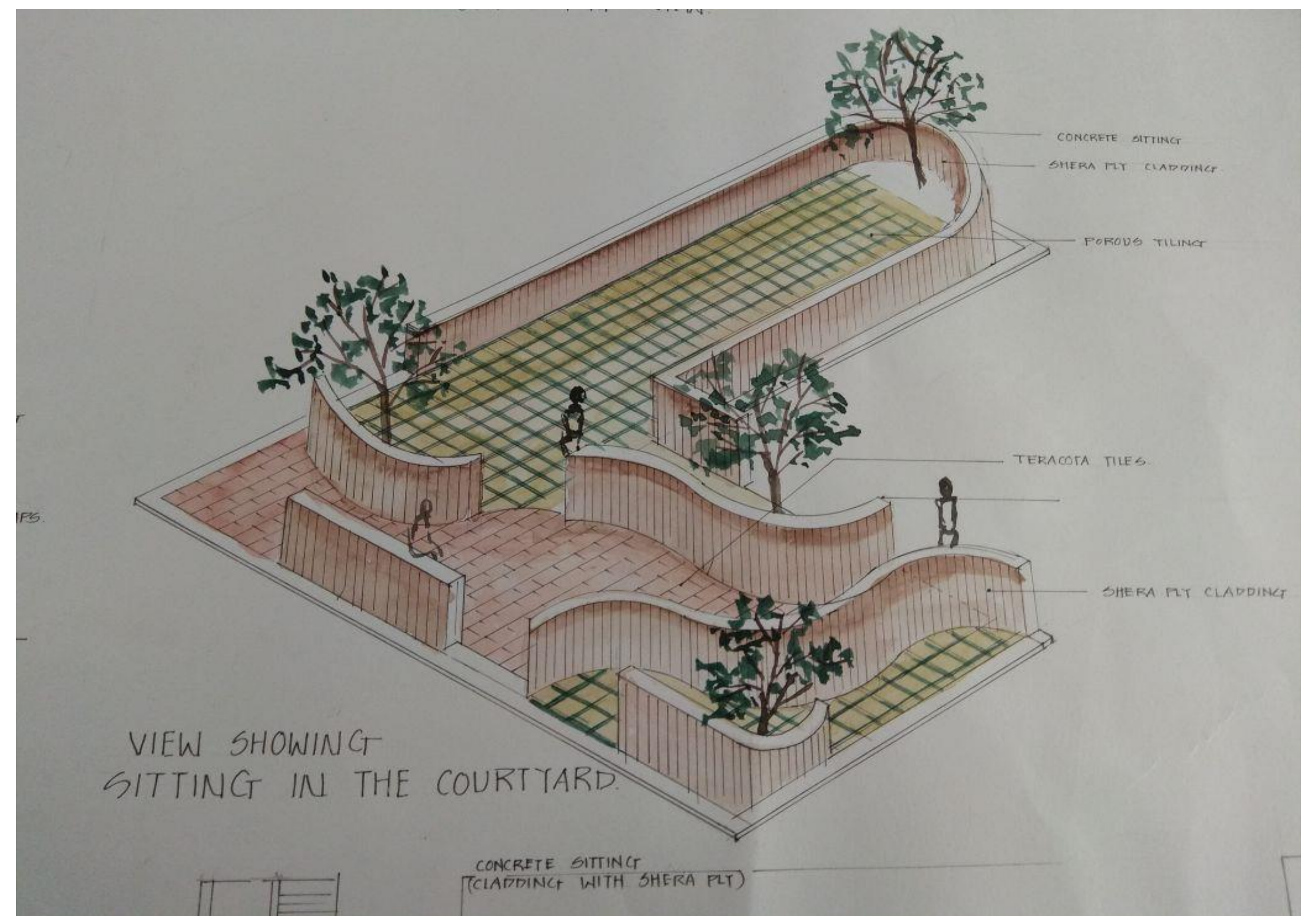
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WORKSHOP

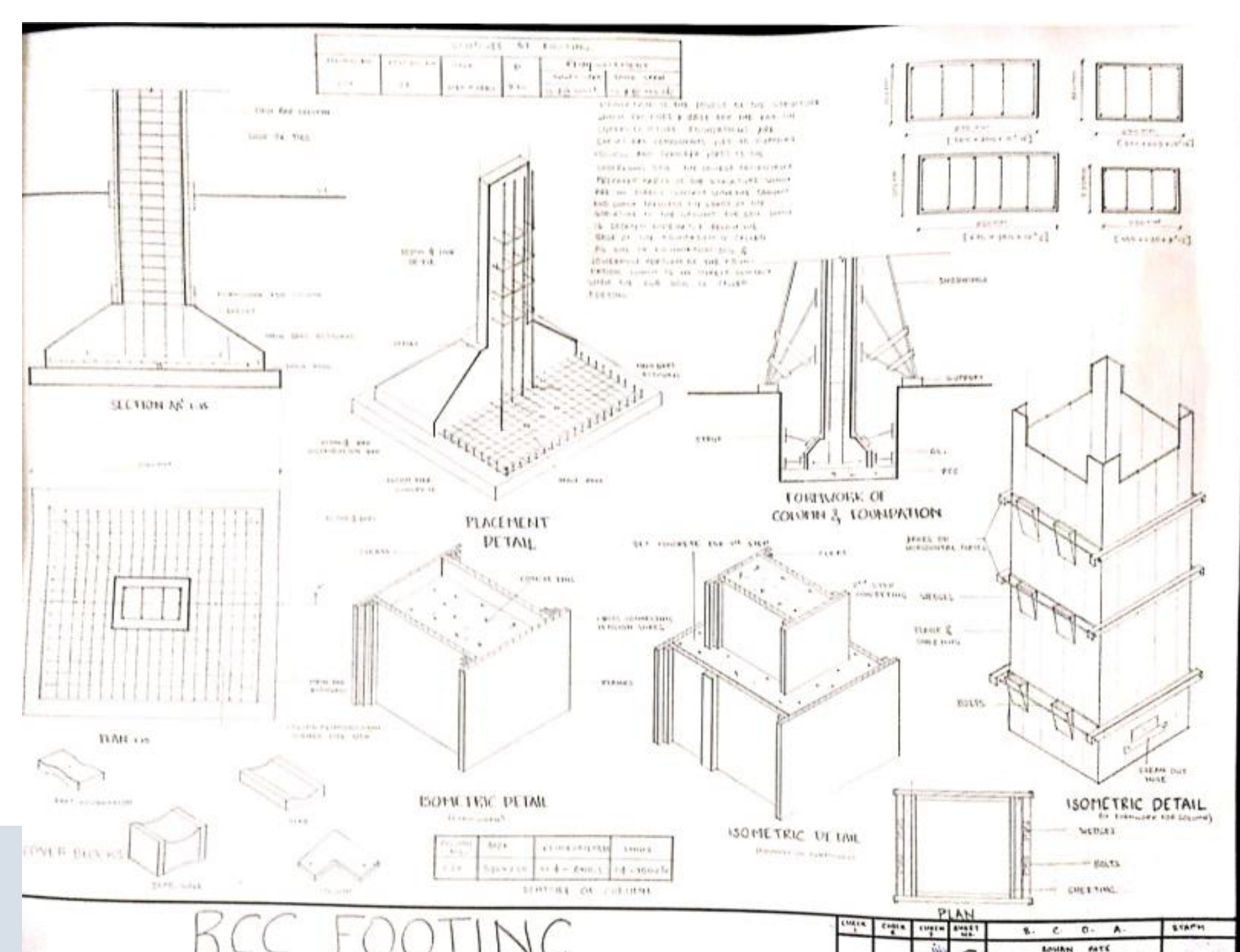
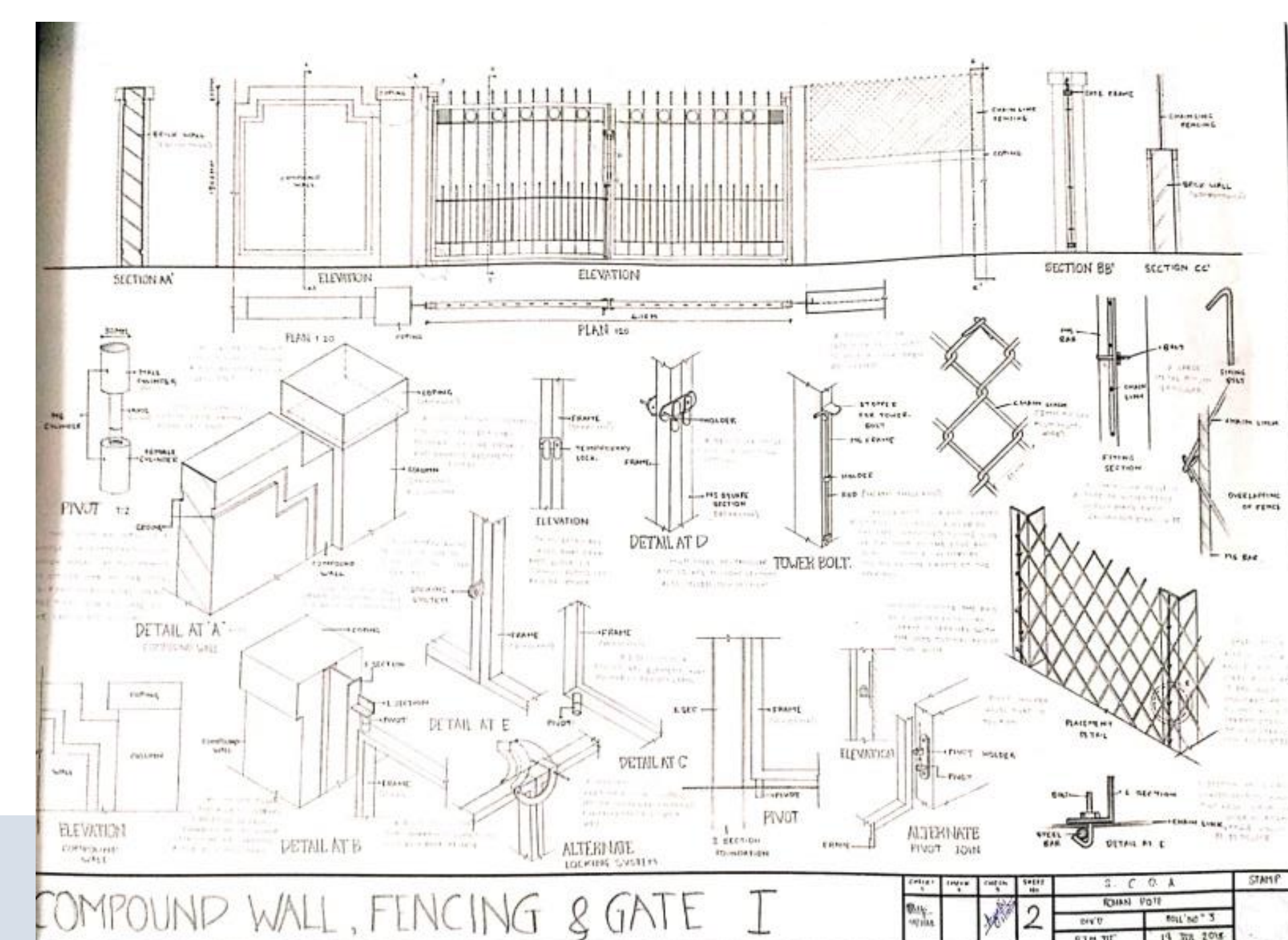
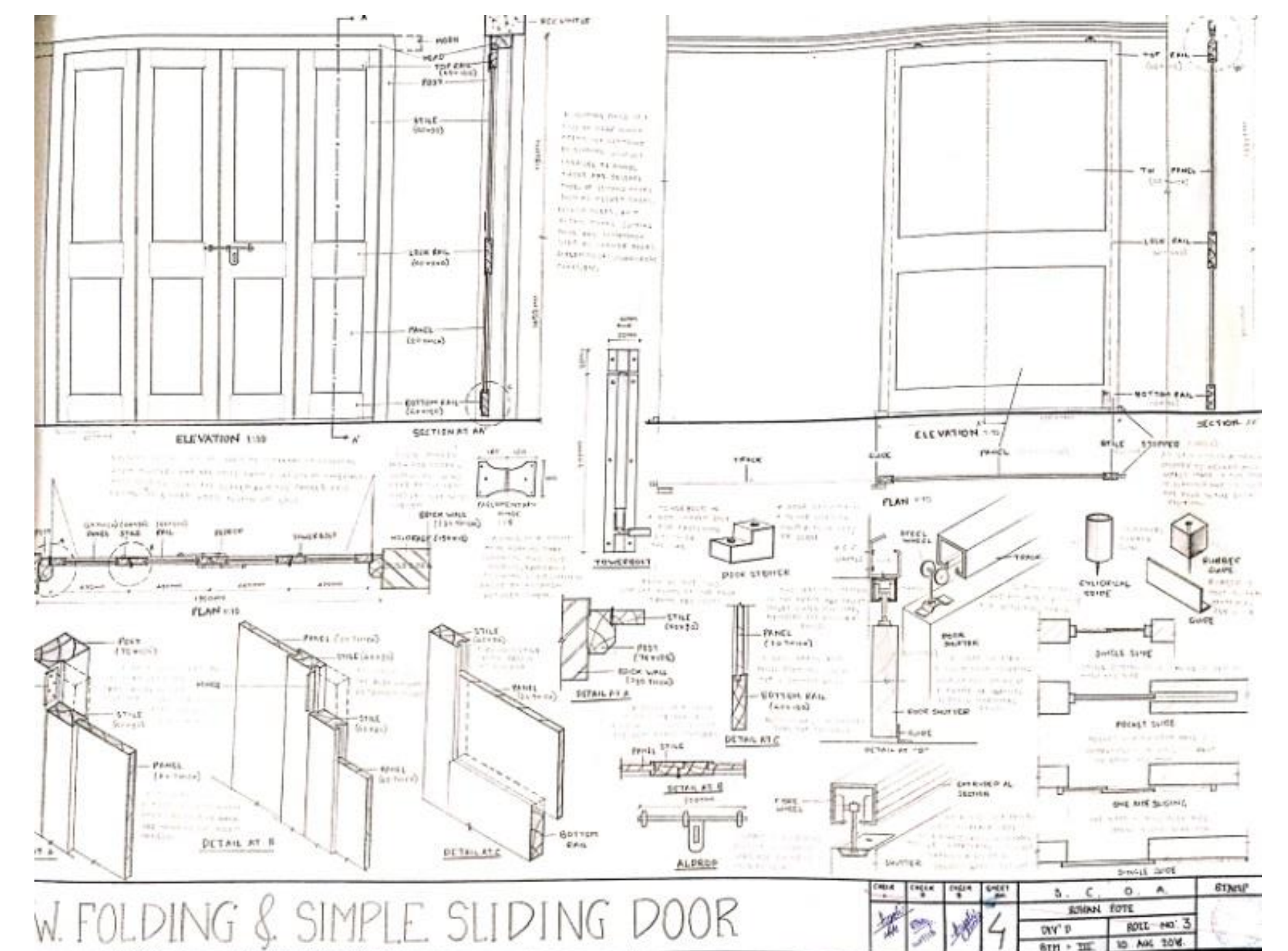
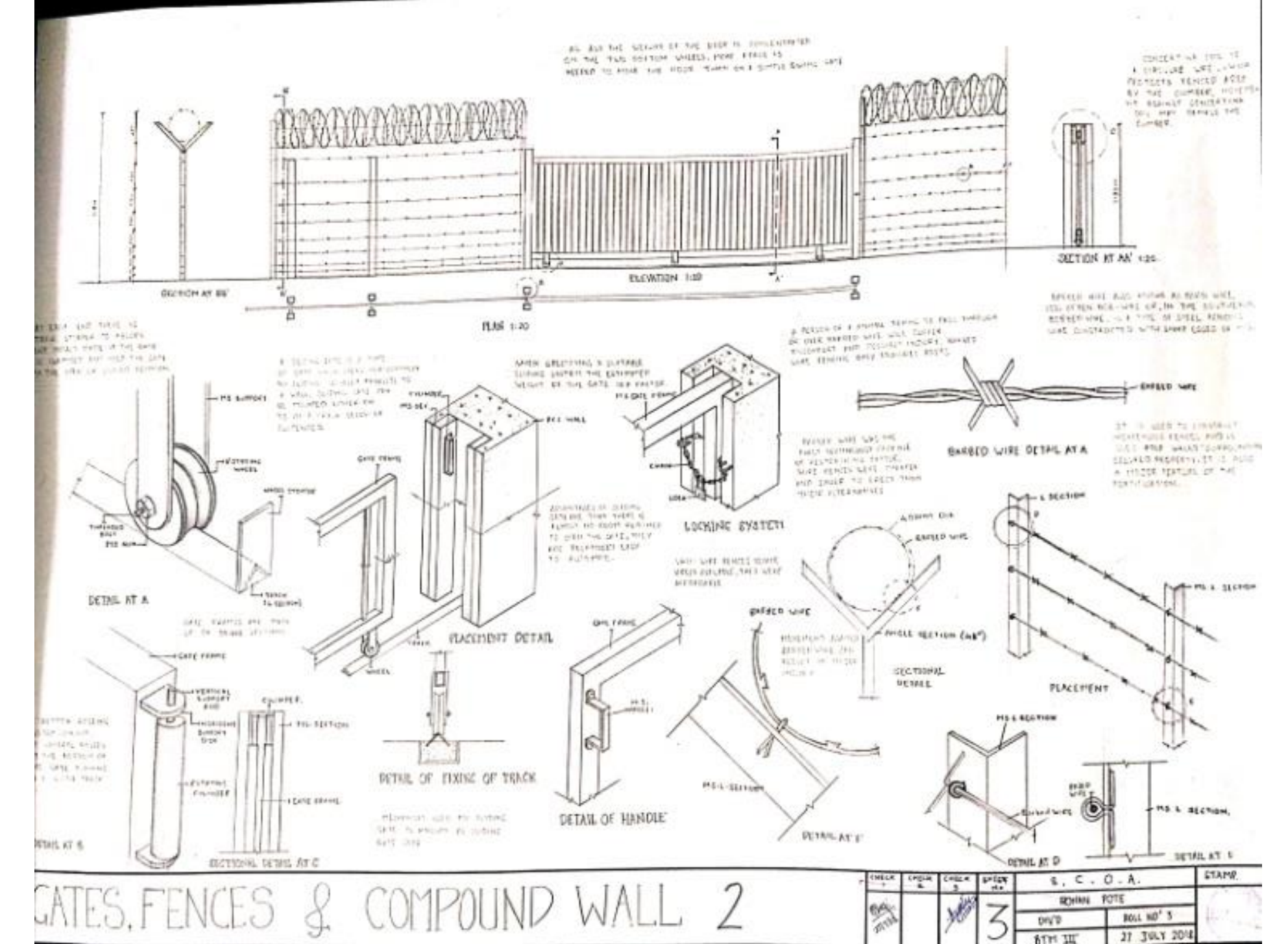
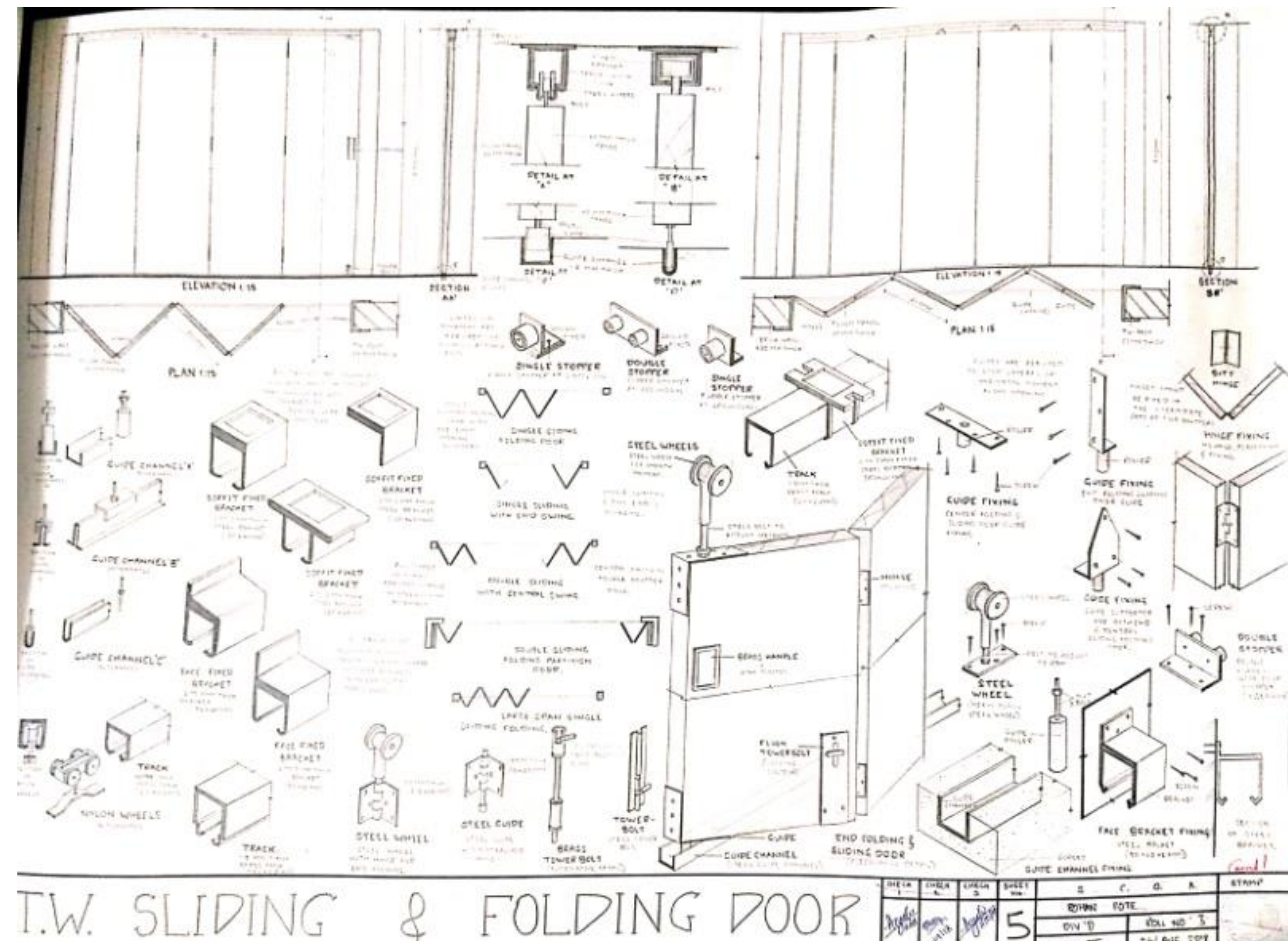
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2nd Year B.Arch TERM I 2018-2019

ARCHITETCURAL DESIGN

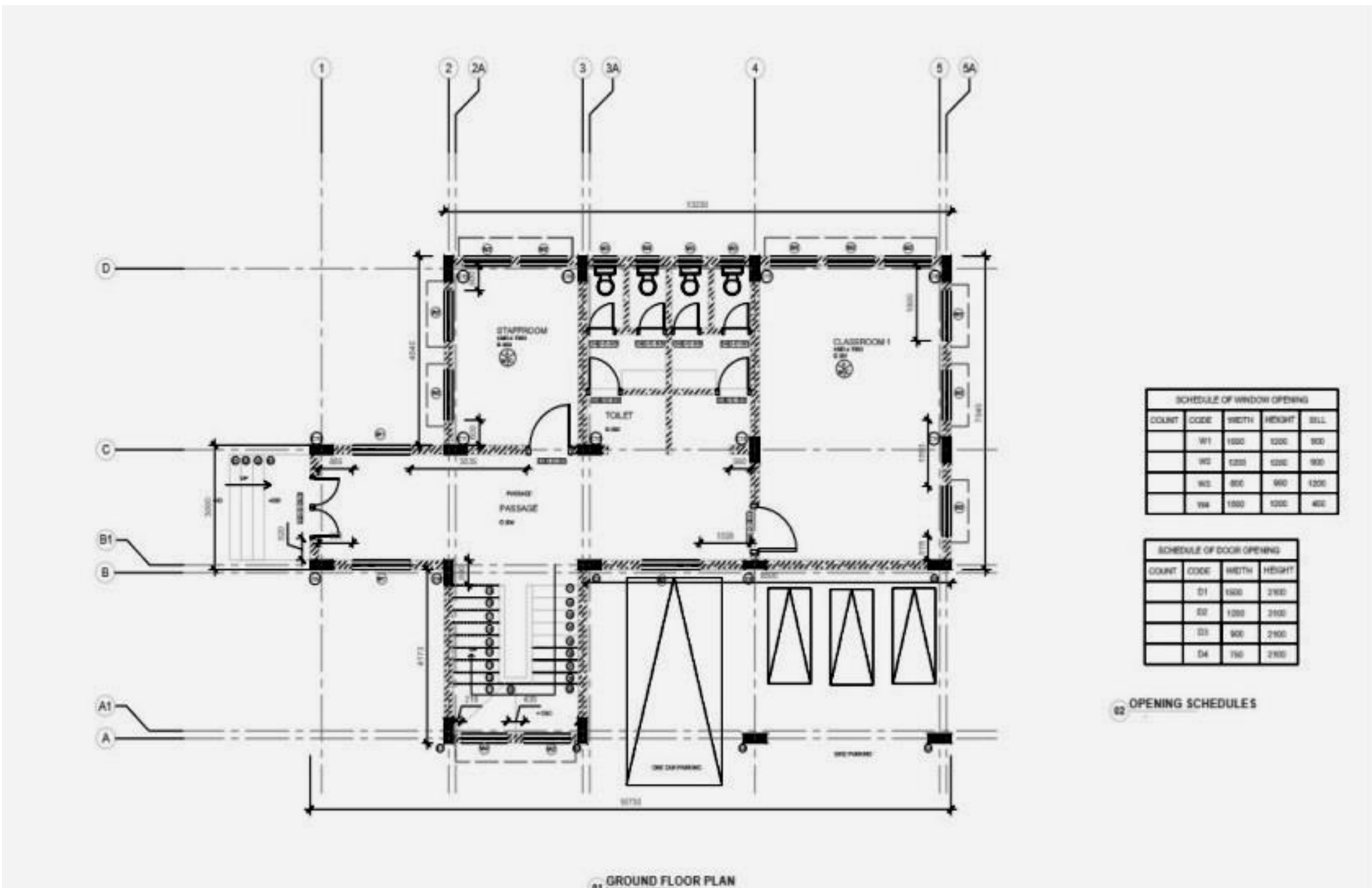
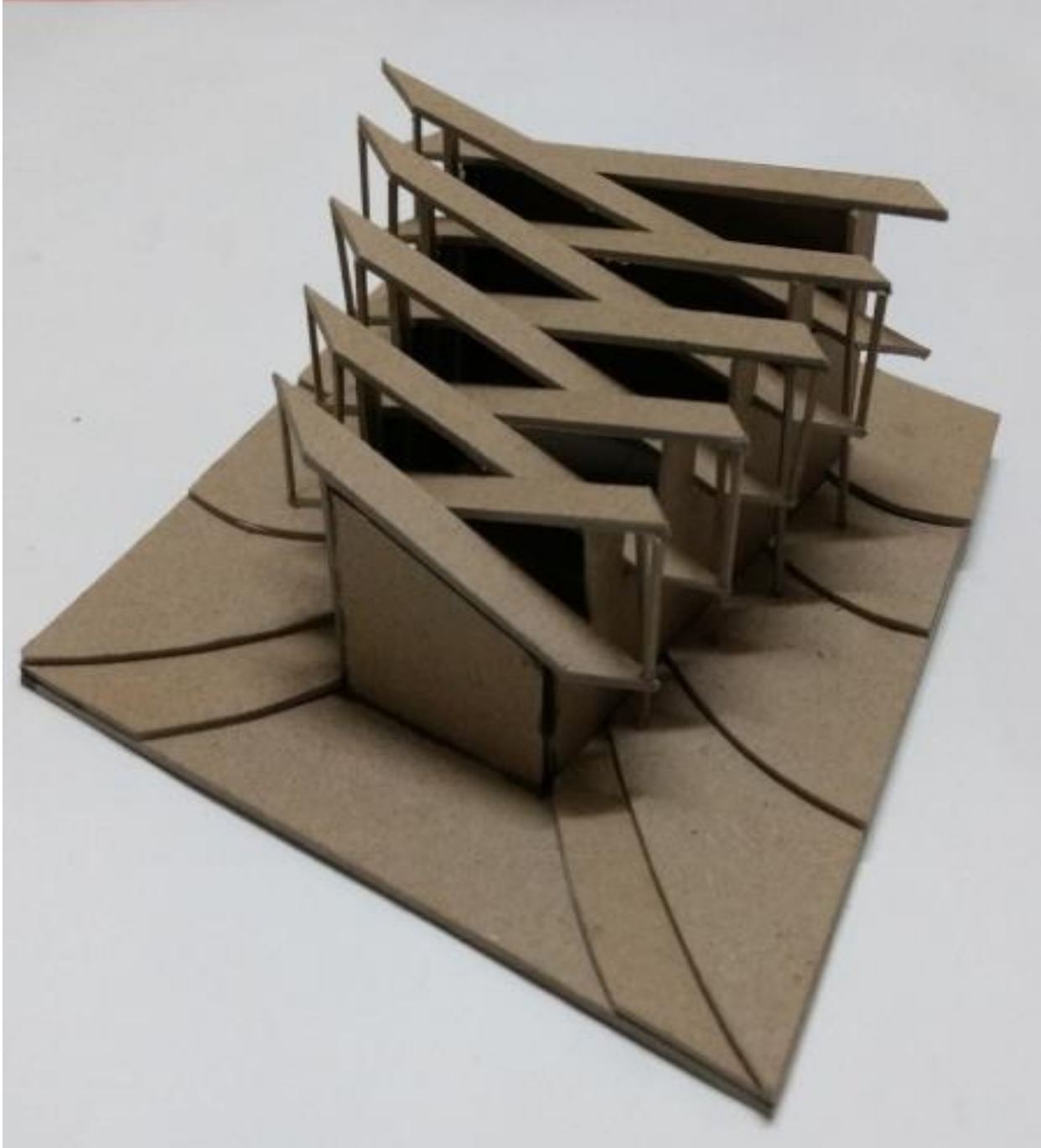
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2nd Year B.Arch 2018-2019

BUILDING TECHNOLOGY AND MATERIALS

Sinhgad College of Architecture, Pune



COMMERCIAL CENTRE

LOCATION : VADGAON, PUNE

INTRODUCTION

A COMMERCIAL CENTRE IN URBAN CONTEXT HAS MANY ACTIVITIES SUCH AS SHOPS, OFFICES, EATERIES, ETC. THIS IS GENERALLY CATEGORIZED AS MULTIUSE SPACE.

SITE IS LOCATED IN VADGAON, PUNE, WHICH HAS MODERATE CLIMATE WITH ADEQUATE RAINFALL.

IT HAS ACCESS ON NORTHERN SIDE OF 6M WIDE ROAD, IT HAS ADJACENT POLICE STATION ON WESTERN SIDE. IT IS SURROUNDED BY RESIDENTIAL AREA WHICH WILL FACILITATE THE DEVELOPMENT OF A COMMERCIAL CENTRE.

SITE DIMENSIONS : 40 M X 40 M



STRENGTH :
FLAT LAND
NO TREES TO BE CUT
FRONT SIDE OF THE ROAD

WEAKNESS :
TREES AND VEGETATION TO BE PLANTED.
ADJACENT ROAD MEETS VERY HEAVY TRAFFIC.

OPPORTUNITY :
DESIGN OF PROPER VENTILATION.
PLACEMENT OF FLORA ACCORDING TO NEED AND DESIGN.

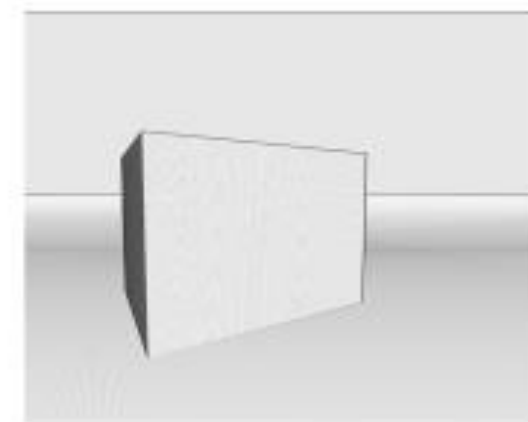
THREAT :
SMALL PATCH AT THE BACK OF THE SITE REMAIN WHICH CAN BECOME HOME FOR INSECTS AND OTHERS.



EAST AND WEST FACADE HAS MINIMUM SURFACE AREA WHICH REDUCES THE AMOUNT OF HEAT GAIN
EACH OPENING ON BOTH FACADES HAVE VEGETATION BLOCKS AS BUFFERS TO IMPROVE AIR QUALITY



CONCEPT : INTERLOCKING BLOCKS



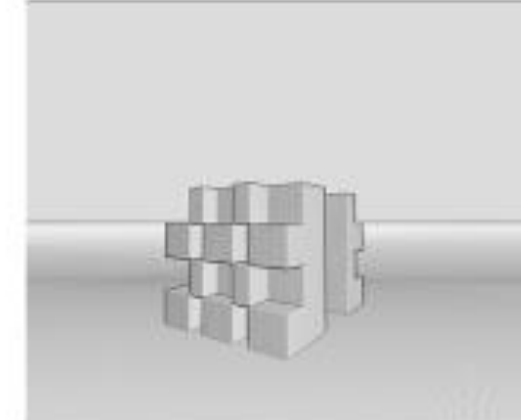
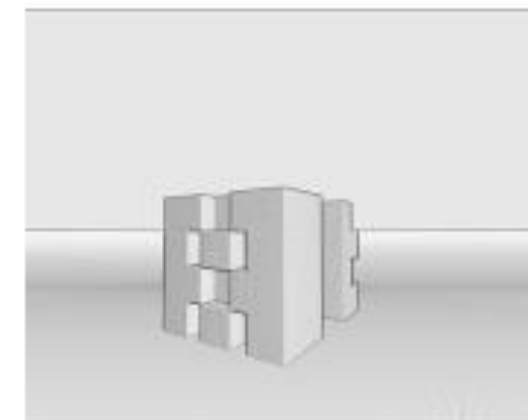
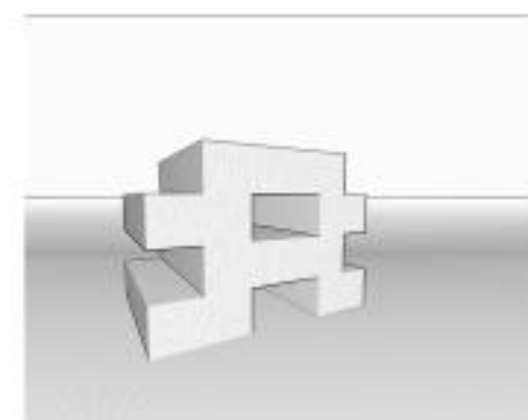
THE INTERLOCKING BLOCKS HELPS ACHIEVE AN UNORTHODOX APPROACH TOWARDS A COMMERCIAL COMPLEX.

IT BREAKS THE MONOTONOUS ELEVATIONS THAT A COMMERCIAL COMPLEX PRESENTS. THE INTERLOCKING BLOCKS HELP ACHIEVE IN MANAGING THE SERVICE BLOCKS AND FUNCTIONALITY OF BUILDING.

THE CONCEPT ALSO HELPS IN PROVIDING A SUSTAINABLE APPROACH DUE TO MANY VOIDS DUE TO INTERLOCKING.

THE CHALLENGE IN THIS CONCEPT WAS TO MAINTAIN THE CONNECTIVITY BETWEEN BLOCKS. THIS WAS TACKLED BY PROVIDING A CENTRAL STAIRCASE.

THE BUILDING IS ORIENTED ALONG THE NORTH SOUTH DIRECTION TO ACHIEVE THE MAXIMUM DIFFUSED LIGHT.



VEGETATION BLOCKS ARE PLACED ALONG THE SERVICE BLOCKS TO IMPROVE THE QUALITY OF AIR FLOW, REDUCES THE HEAT GAIN AND TO HIDE THE PIPING NETWORK.



WOODEN LOUVERS ARE PLACED ON EASTERN AND WESTERN FACADE.



WOODEN PANELS AND GLASS ARE FIXED ON THE NORTH FACADE TO GET MAXIMUM DIFFUSED LIGHT.



THE ROOF INCORPORATES PHOTOVOLTAIC PANELS WHICH ARE CAPABLE TO HANDLE 50% OF BUILDING'S ENERGY CONSUMPTION.



NORTH FACADE ALLOWS NORTHERN LIGHT INTO BUILDING. LARGER WINDOWS ARE PROVIDED FOR LIGHT. WOODEN PANELS CONTROL INFLOW OF LIGHT. FACADE CAN BE COMPLETELY CLOSED AND OPENED.



GHODNADIKAR AJINKYARAJ
ROLL NO : 03

01

3rd Year B.Arch 2018-2019

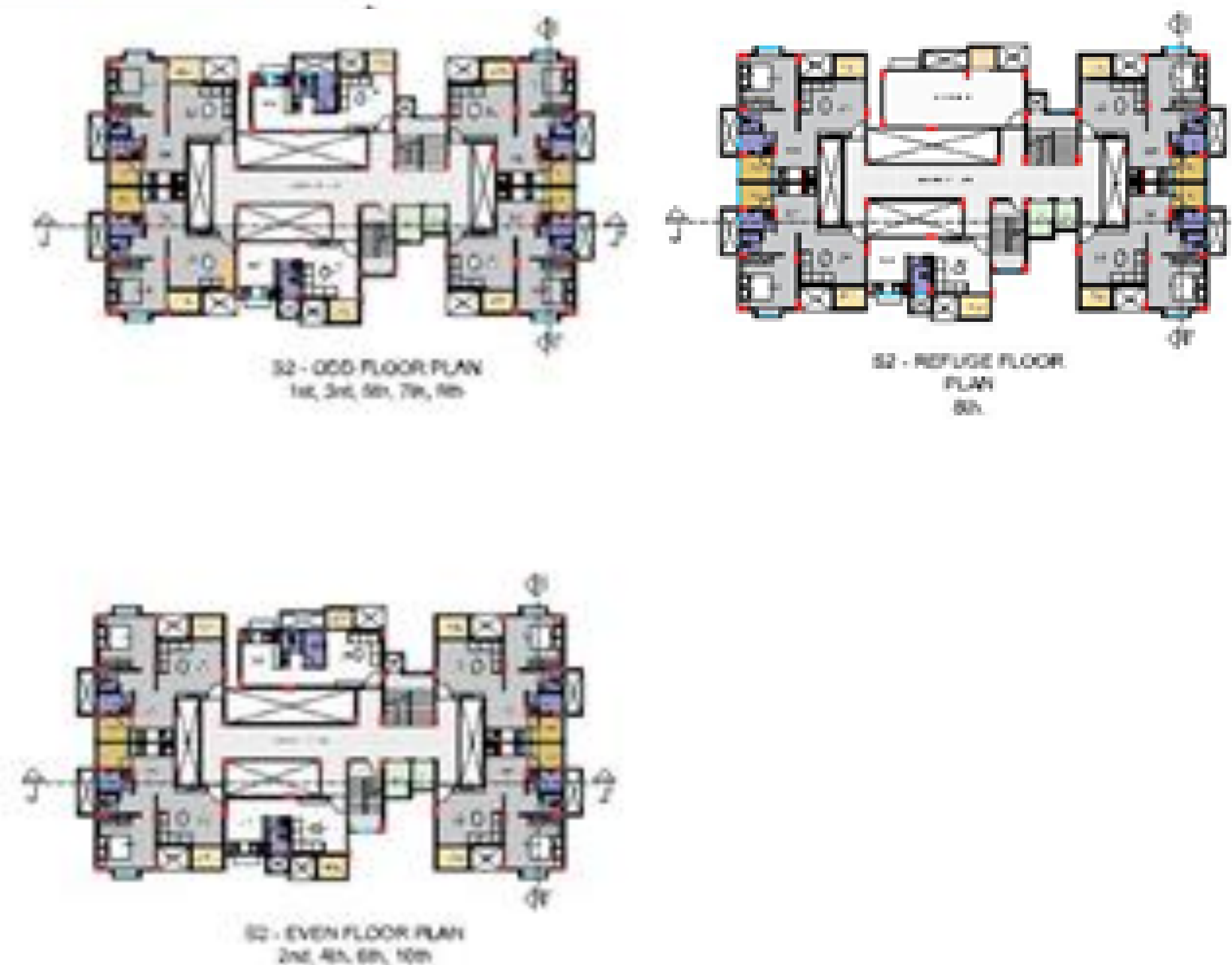
ARCHITECTURAL DESIGN

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SURAJ B. WAGHMODE
4TH YEAR, CM
SCOA, PUNE

PROPOSED SITE AT KHED-SHIVAPUR.

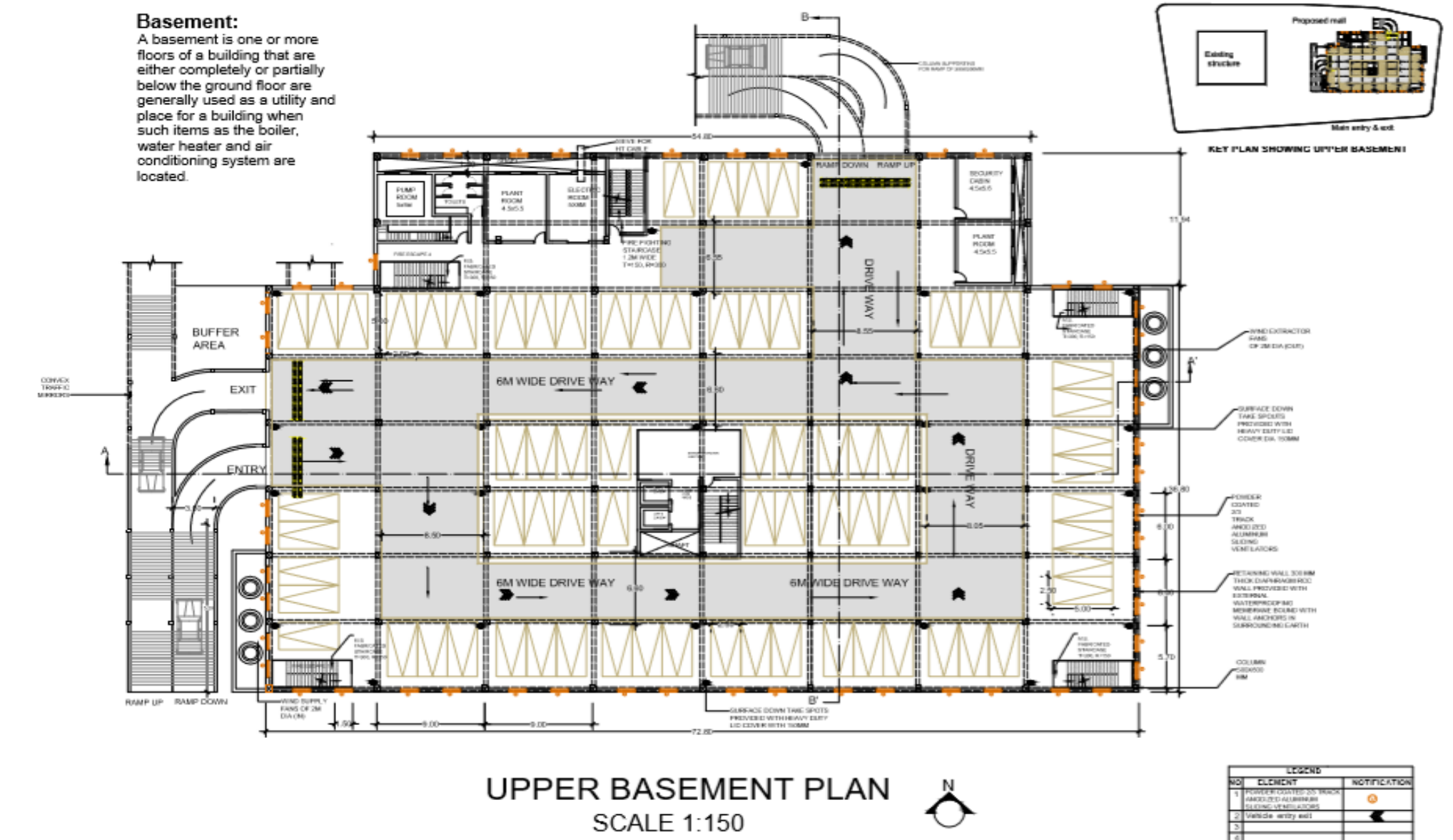


4th Year B.Arch 2018-2019

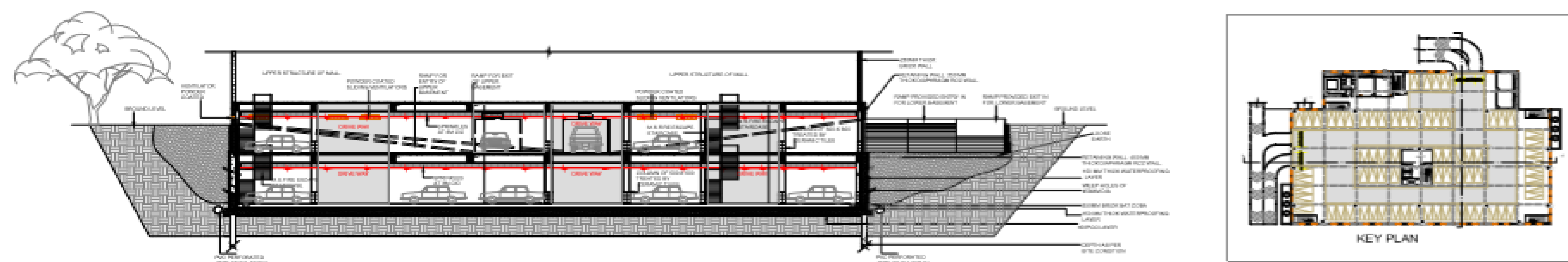
ARCHITECTURAL DESIGN VII



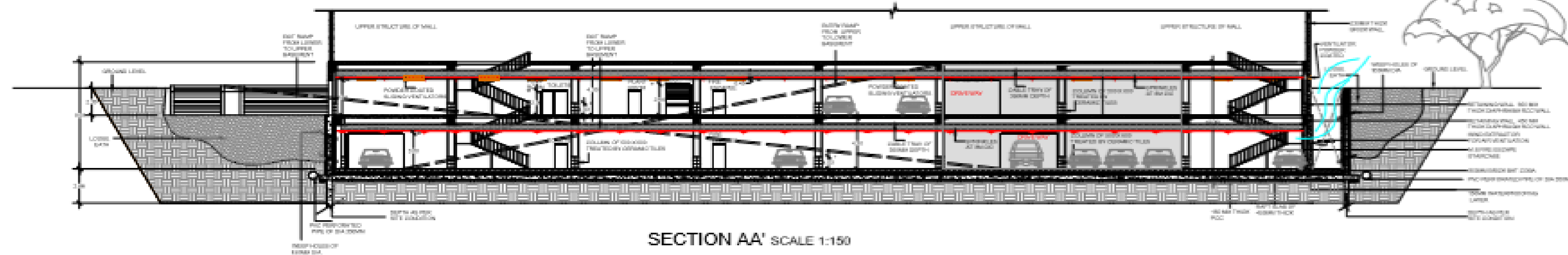
LOWER BASEMENT PLAN
SCALE 1:150



UPPER BASEMENT PLAN
SCALE 1:150



SECTION BB' SCALE 1:150



SECTION AA' SCALE 1:150