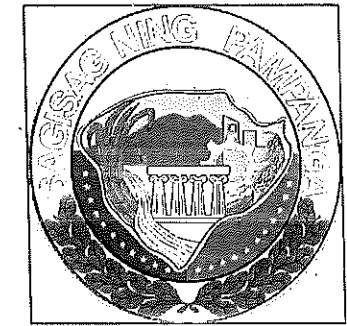
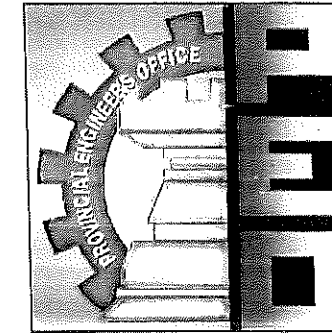


REPUBLIC OF THE PHILIPPINES
 PROVINCE OF PAMPANGA

PROVINCIAL ENGINEER'S OFFICE

CAPITOL COMPOUND, CITY OF SAN FERNANDO, PAMPANGA



PERSPECTIVE PLAN

SCALE: NTS.

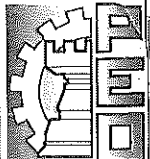


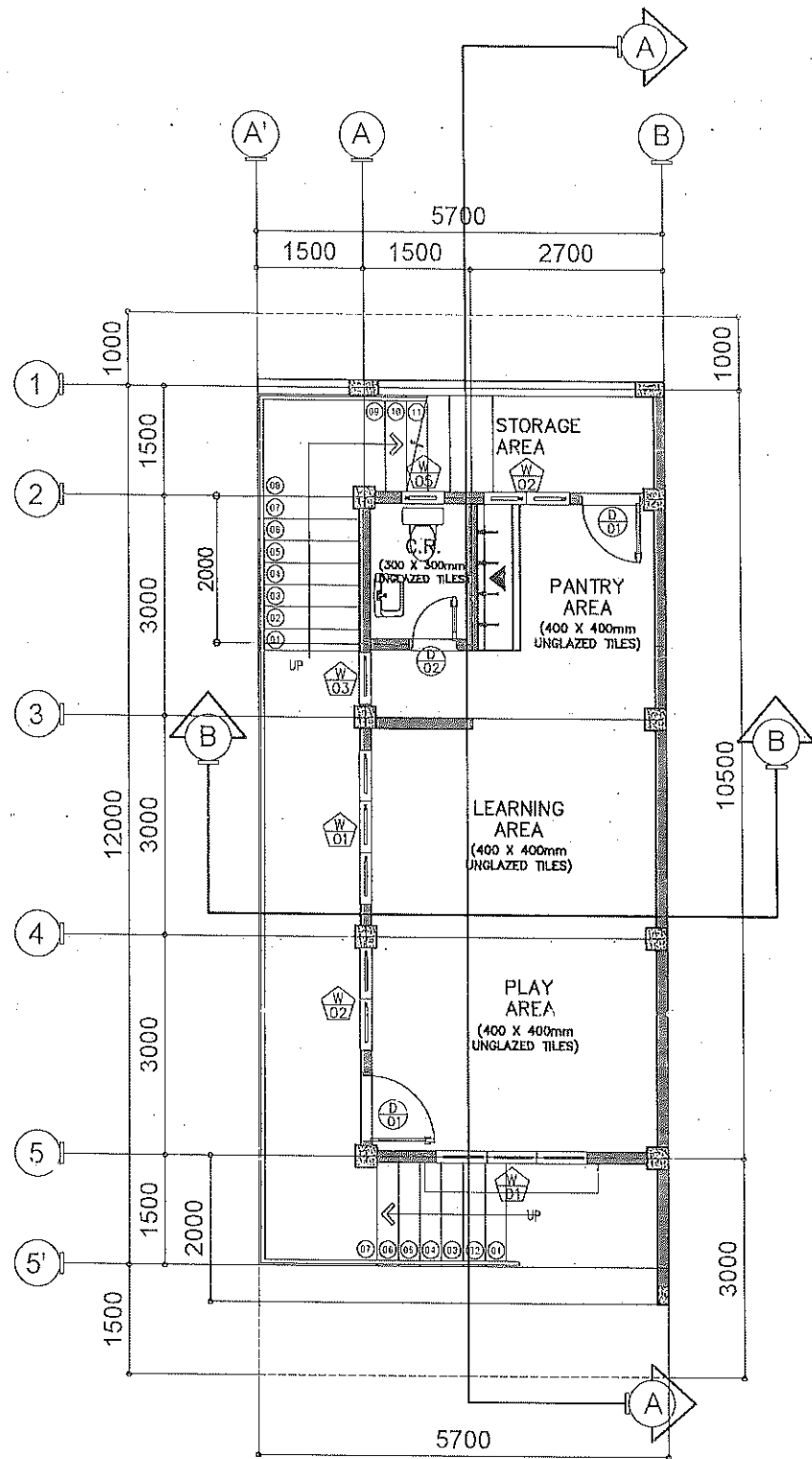
VICINITY MAP

SCALE: NTS.

CONSTRUCTION OF TWO(2) - STOREY MULTI-PURPOSE BUILDING

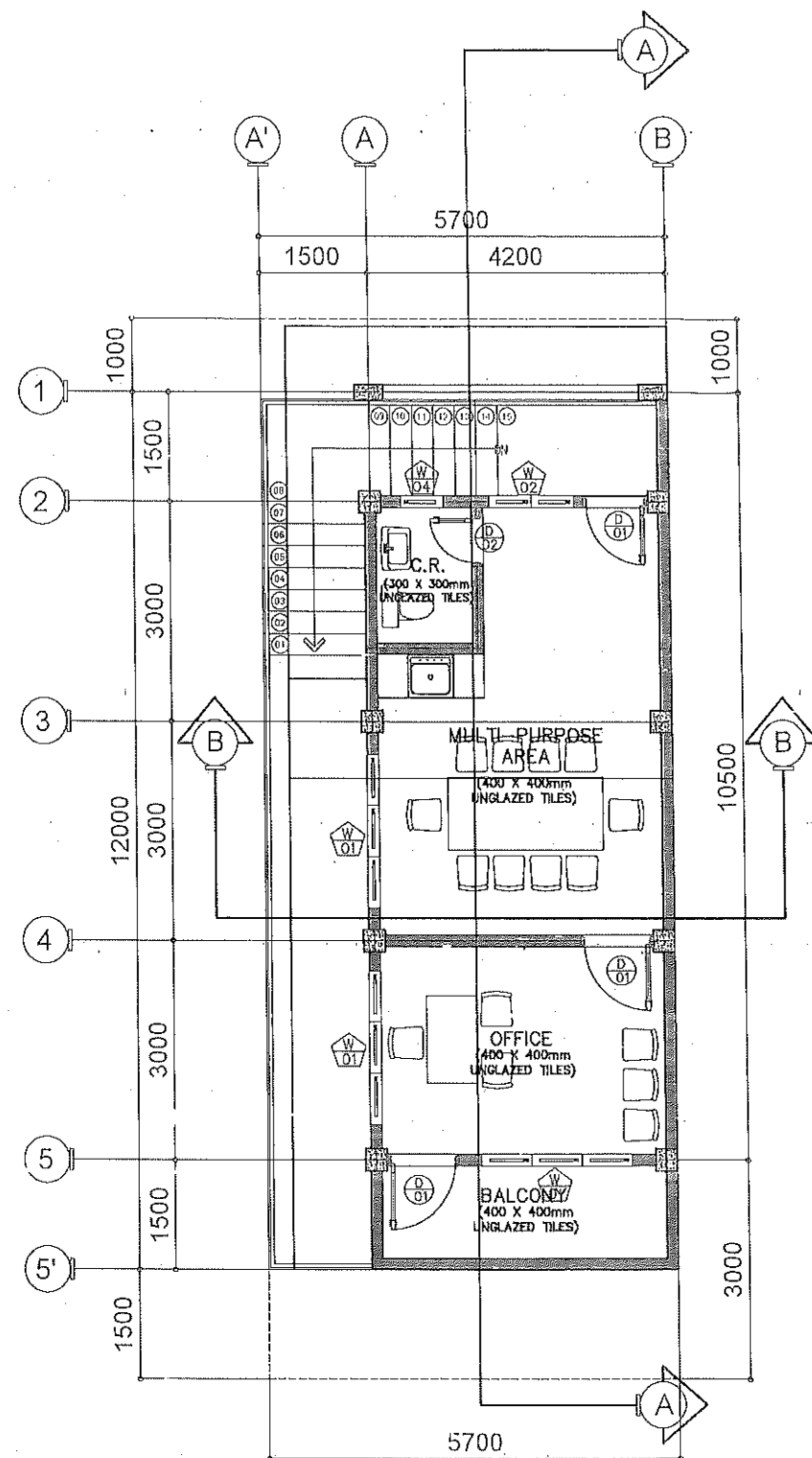
LOCATION: SAN ISIDRO, MACABEBE, PAMPANGA

 FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	CONSTRUCTION OF TWO (2) - STOREY MULTI-PURPOSE BUILDING LOCATION: SAN ISIDRO, MACABEBE, PAMPANGA	JUAN MIGUEL M. CARREON ENGINEER I EDWARD V. LAXA ENGINEERING ASSISTANT CADD BY: D. D. HERNANDEZ	[Signature] ESMERALDO T. GULAPA ENGINEER IV	[Signature] WILFREDO A. MANALI ASSISTANT PROVINCIAL ENGINEER	[Signature] OLIMPIO M. PANGAN PROVINCIAL ENGINEER	[Signature] HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	A - 1



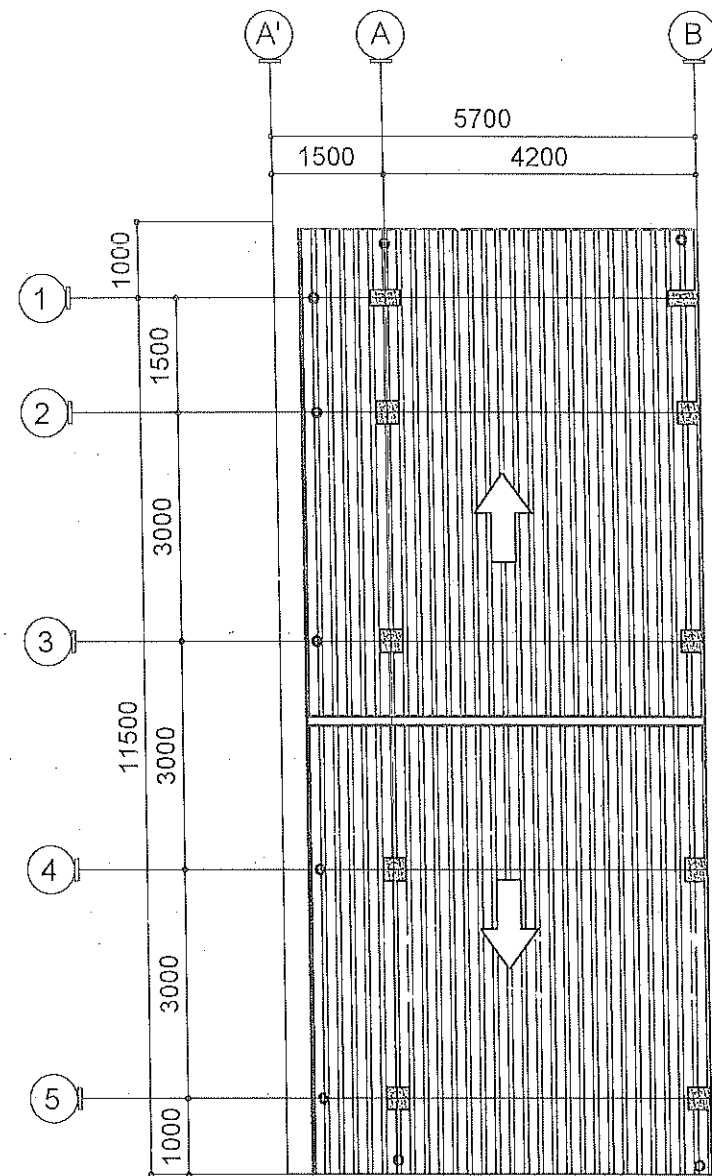
GROUND FLOOR PLAN

SCALE: 1:100 MTS.



SECOND FLOOR PLAN

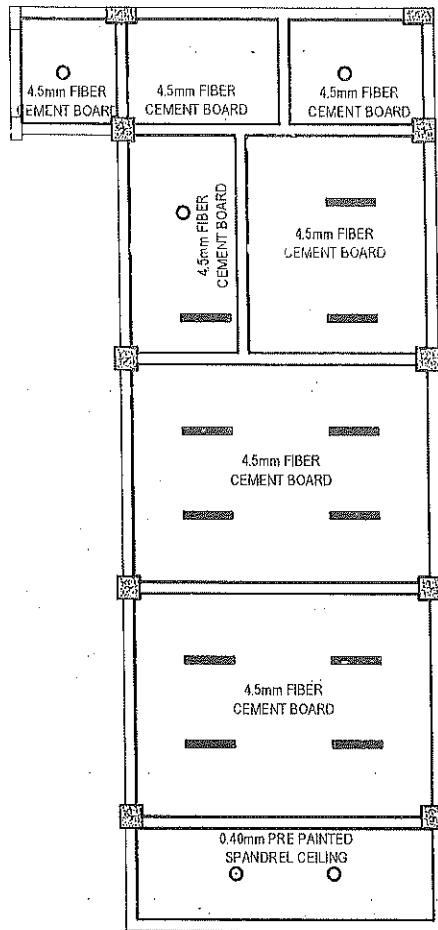
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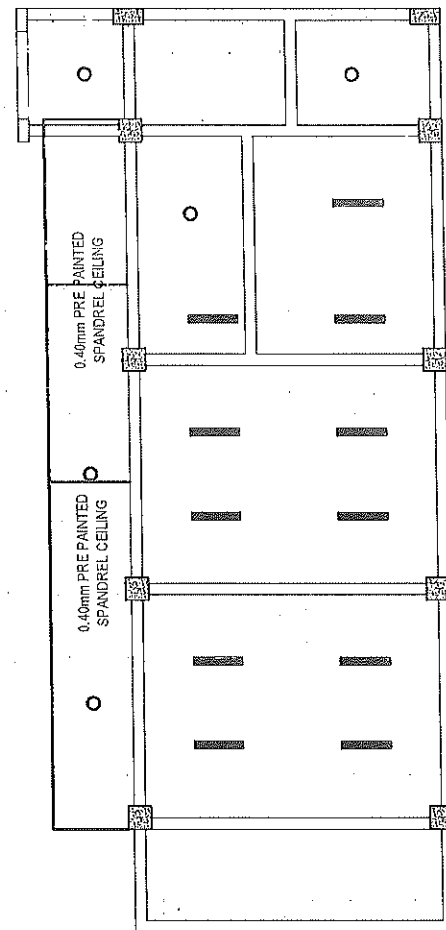
ROOF PLAN

SCALE: 1:100 MTS.

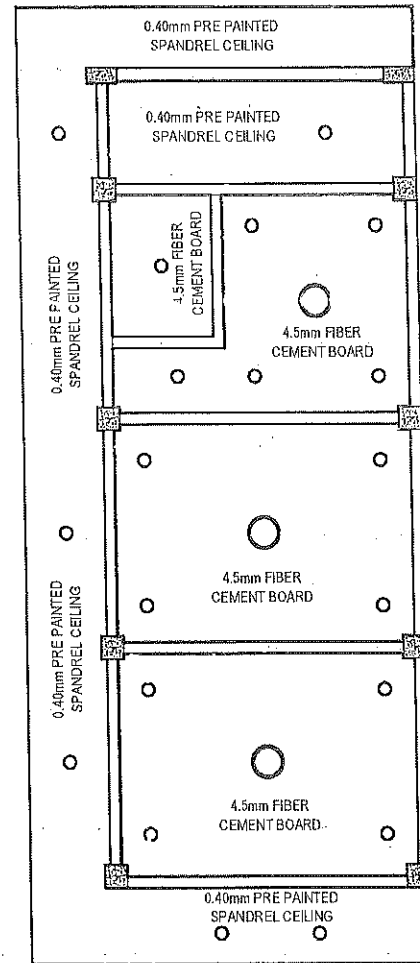
FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF TWO (2) - STOREY MULTI-PURPOSE BUILDING LOCATION: SAN ISIDRO, MACABEBE, PAMPANGA	<i>Juan M. Carreon</i> JUAN MIGUEL M. CARREON ENGINEER I <i>Edward Y. Laxa</i> EDWARD Y. LAXA ENGINEERING ASSISTANT CALBYO, D. HERNANDEZ	<i>Esmeraldo T. Gulapa</i> ESMERALDO T. GULAPA ENGINEER IV	<i>Wilfredo A. Manahit</i> WILFREDO A. MANAHIT ASSISTANT PROVINCIAL ENGINEER	<i>Olimpio M. Pangan</i> OLIMPIO M. PANGAN PROVINCIAL ENGINEER	<i>Hon. Dennis G. Pineda</i> HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: <i>Atty. Charlie G. Chua</i> ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	A - 2 02 / 19



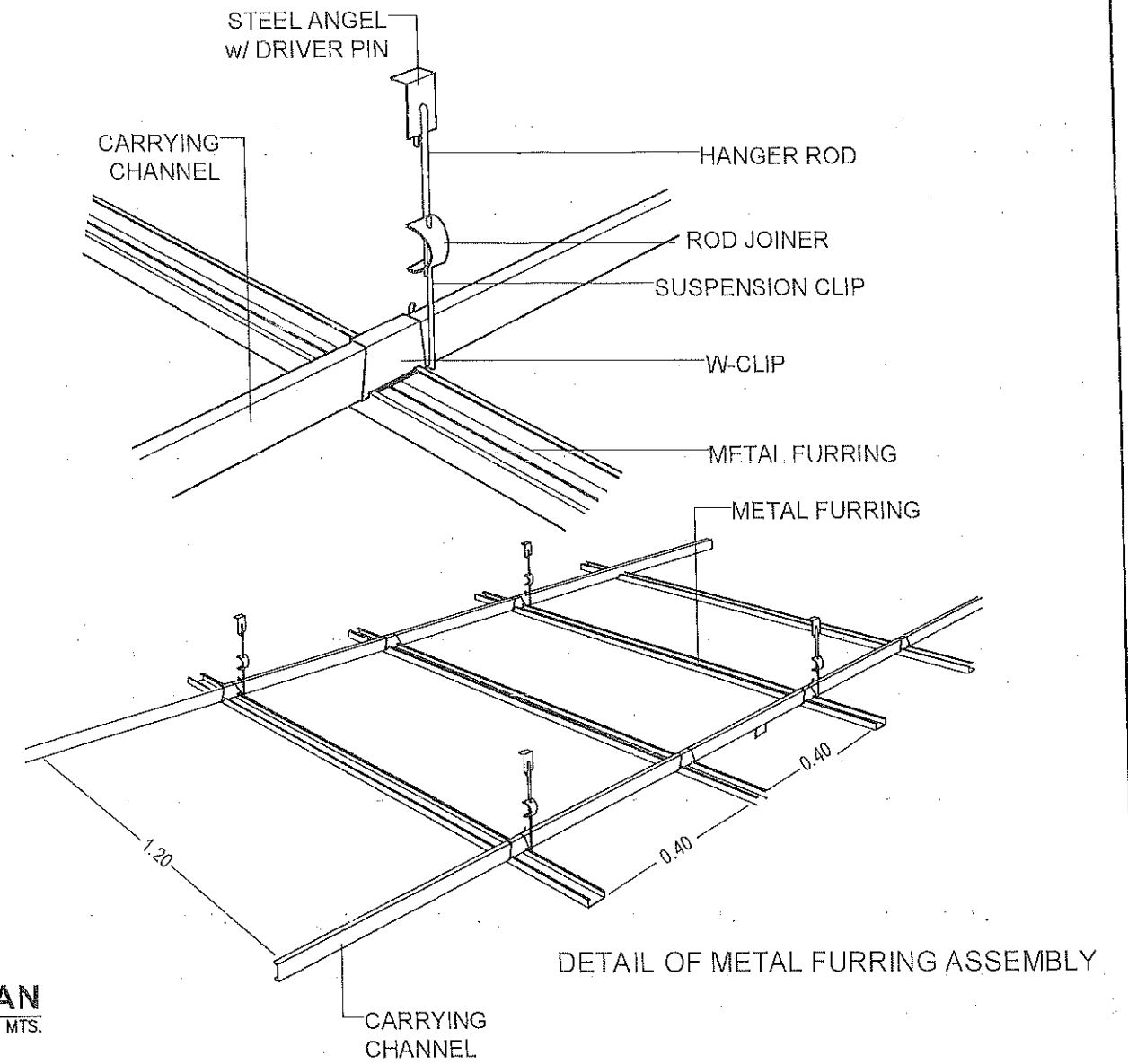
**GROUND FLOOR
REFLECTED CEILING PLAN**
SCALE: 1:100 MTS.



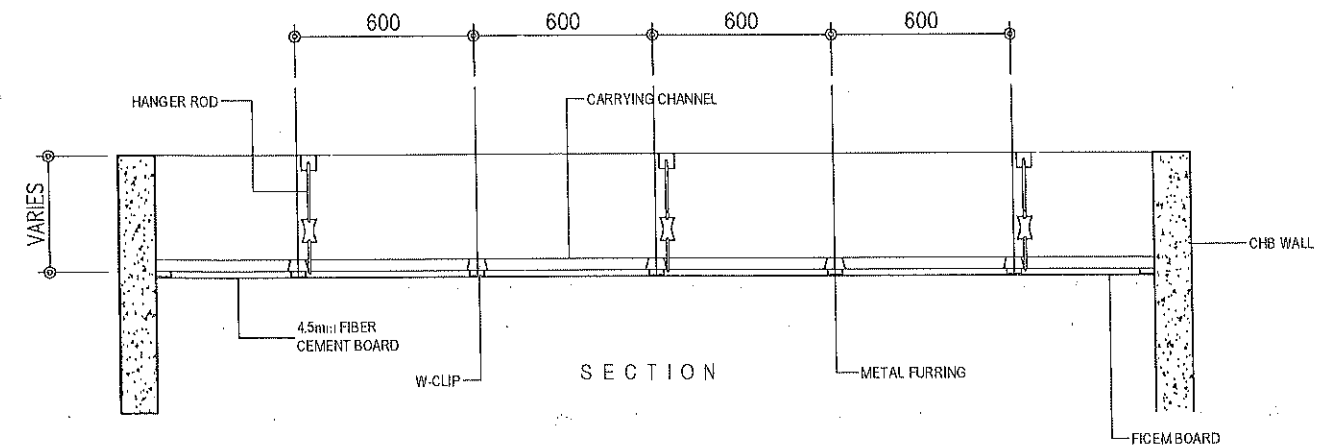
**GROUND FLOOR
REFLECTED CEILING PLAN**
SCALE: 1:100 MTS.



**SECOND FLOOR
REFLECTED CEILING PLAN**
SCALE: 1:100 MTS.



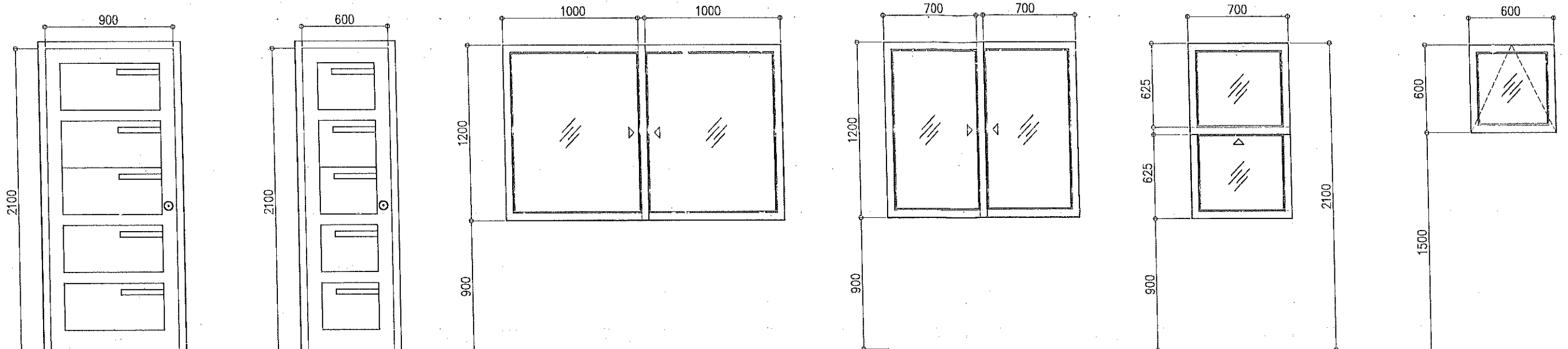
DETAIL OF METAL FURRING ASSEMBLY



DETAIL OF CEILING

SCALE: 1:25 MTS.

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D1 SOLID PANEL DOOR W/
G.I. JAMB COMPLETE W/
HARDWARE & ACCESSORIES
(5 = SETS)

D2 SOLID PANEL DOOR W/
G.I. JAMB COMPLETE W/
HARDWARE & ACCESSORIES
(2 = SETS)

W1 1/4" THK GLASS PANELS
ON ANALOC FRAME
SLIDING WINDOWS W/
SCREEN
(5 = SETS)

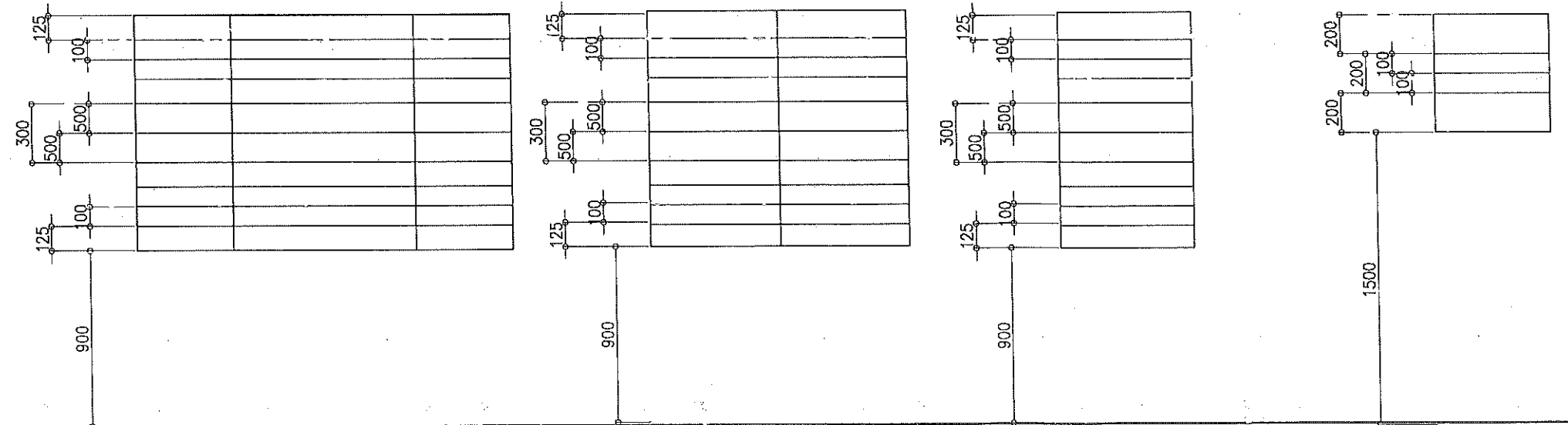
W2 1/4" THK GLASS PANELS
ON ANALOC FRAME
SLIDING WINDOWS W/
SCREEN
(3 = SETS)

W3 1/4" THK GLASS PANELS
ON ANALOC FRAME
GUILLOTINE WINDOWS W/
SCREEN
(1 = SETS)

W4 1/4" THK GLASS PANELS
ON ANALOC FRAME
AWNING WINDOWS W/
SCREEN
(2 = SETS)

DOORS AND WINDOWS SCHEDULE

SCALE: 1:30 MTS.



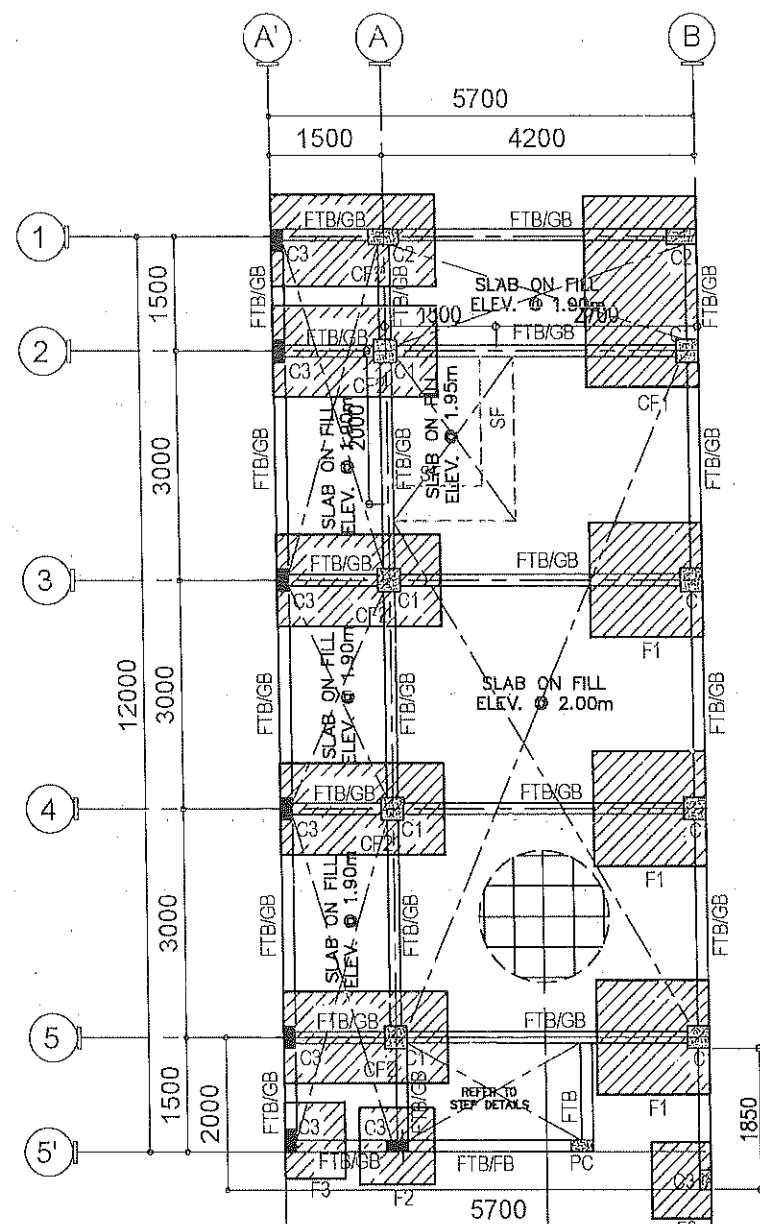
G1 12mm SQUARE
BARS FOR
SECURITY GRILLS
(5 = SETS)

G2 12mm SQUARE
BARS FOR
SECURITY GRILLS
(3 = SETS)

G3 12mm SQUARE
BARS FOR
SECURITY GRILLS
(1 = SETS)

G4 12mm SQUARE
BARS FOR
SECURITY GRILLS
(2 = SETS)

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100 mm THK. CONC. FLOOR WITH
10mmØ HORIZONTAL BAR SPACED
@ 500mm ON BOTH WAYS

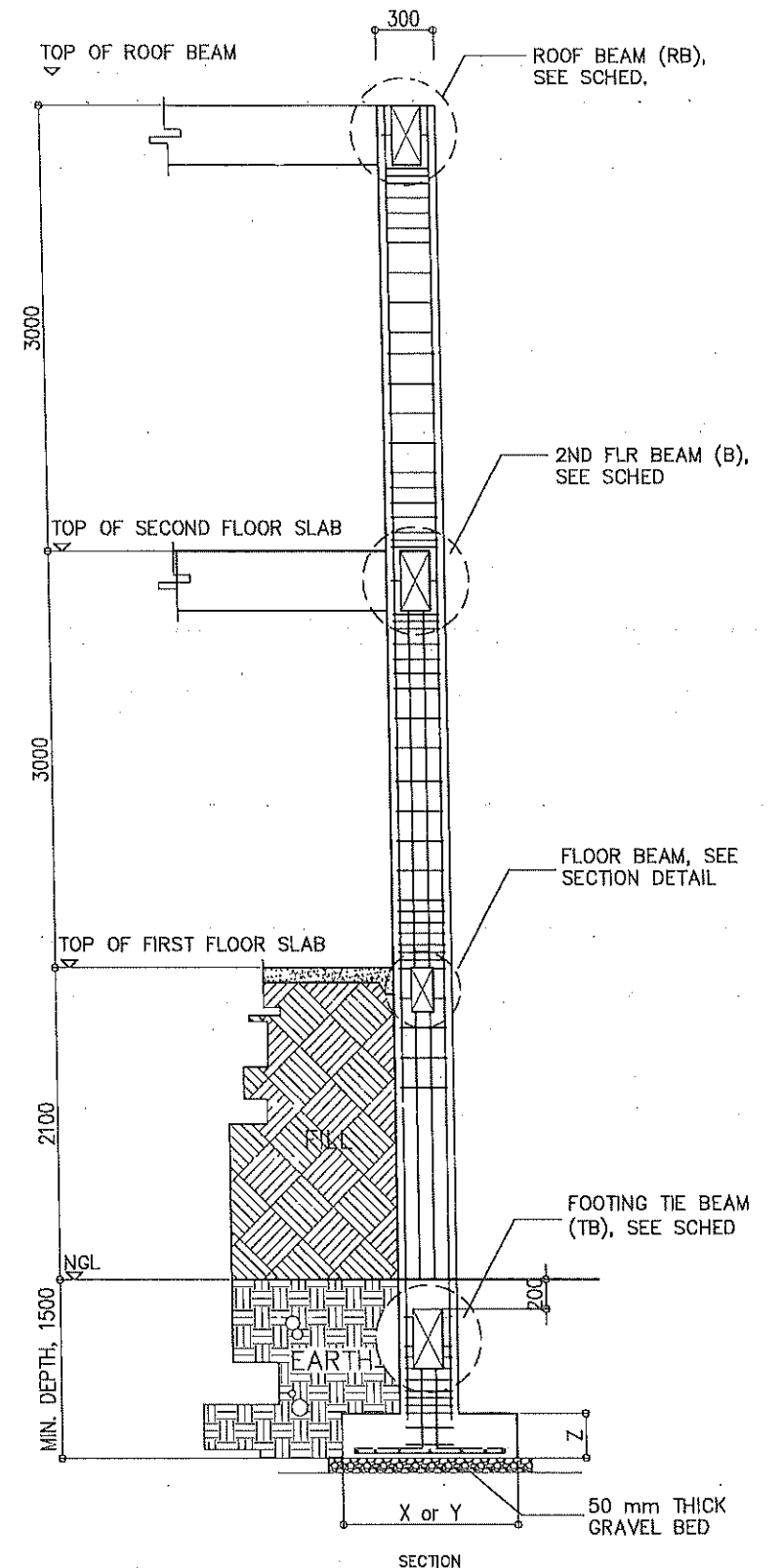
FOUNDATION PLAN

SCALE: 1:100 MTS.

SCHEDULE OF ISOLATED FOOTINGS							
FOOTING MARK	DIMENSION(mm)			DEPTH	REINFORCEMENT (GR.40)		
	x	y	z		BARS Ø (mm)	NUMBER ALONG x	NUMBER ALONG y
F1=3 UNITS	1500	1500	300	1500	16	9	9
F2=1 UNIT	1000	1000	250	1050	12	6	6
F3=2 UNITS	800	1000	250	1050	12	5	6

SCHEDULE OF COMBINED FOOTINGS								
FOOTING MARK	DIMENSION(mm)			DEPTH	REINFORCEMENT (GR.40)			
	x	y	z		BARS Ø (mm)	NUMBER ALONG x	NUMBER ALONG y	
CF1=1 UNIT	2500	1500	300	1500	TOP	12	10	14
					BOTTOM	16	10	14
CF2=5 UNITS	2200	1200	300	1200	TOP	12	7	12
					BOTTOM	16	7	12

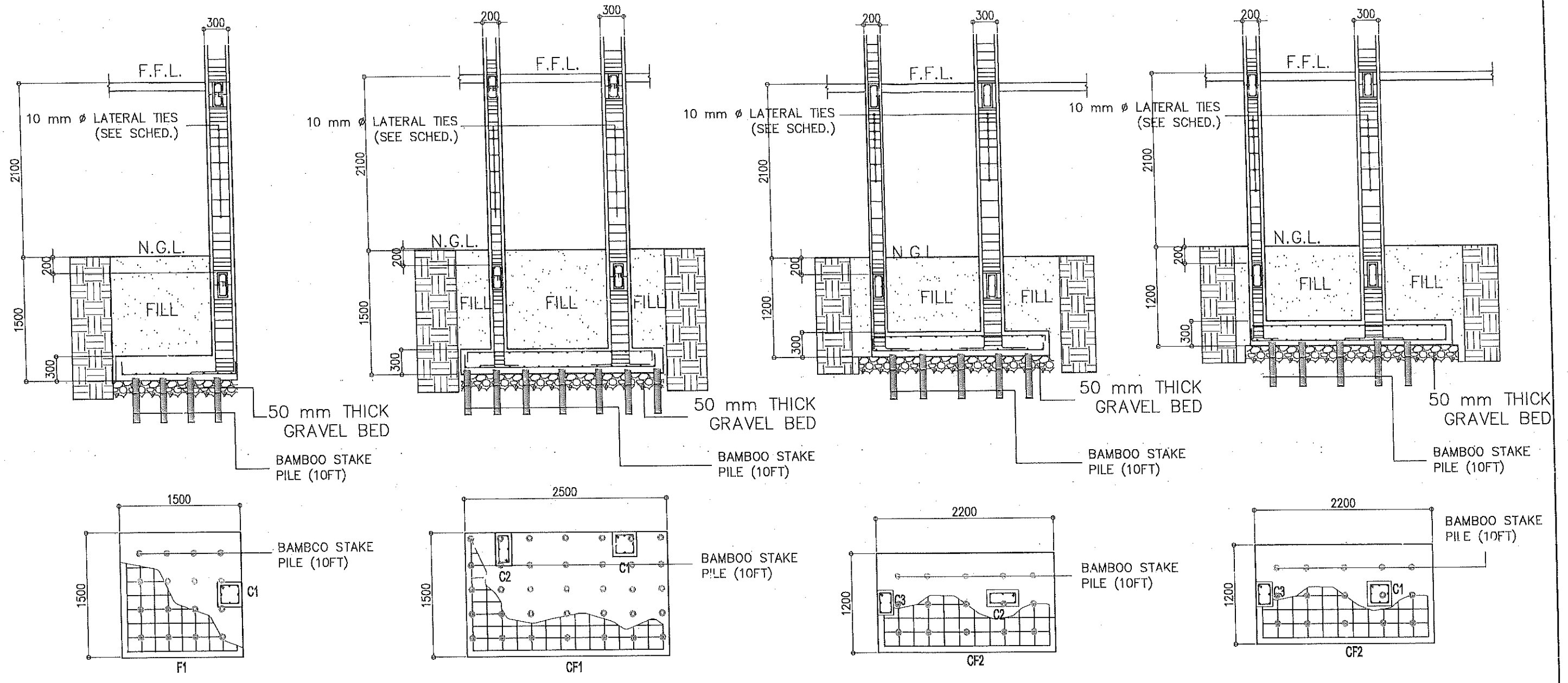
SCHEDULE OF COLUMNS			
	C1 = 8 UNITS	C2 = 2 UNITS	C3 = 8 UNITS
FOUNDATION TO ROOF BEAM			
	MAIN BARS : 8-16 mm Ø TIE BARS : 10 mm Ø 3 @ 50 mm, 4 @ 100 mm, & REST @ 200 mm	MAIN BARS : 8-16 mm Ø TIE BARS : 10 mm Ø 3 @ 50 mm, 4 @ 100 mm, & REST @ 200 mm	MAIN BARS : 8-16 mm Ø TIE BARS : 10 mm Ø 3 @ 50 mm, 4 @ 100 mm, & REST @ 200 mm



FULL BAY SECTION

SCALE: 1:50 MTS.

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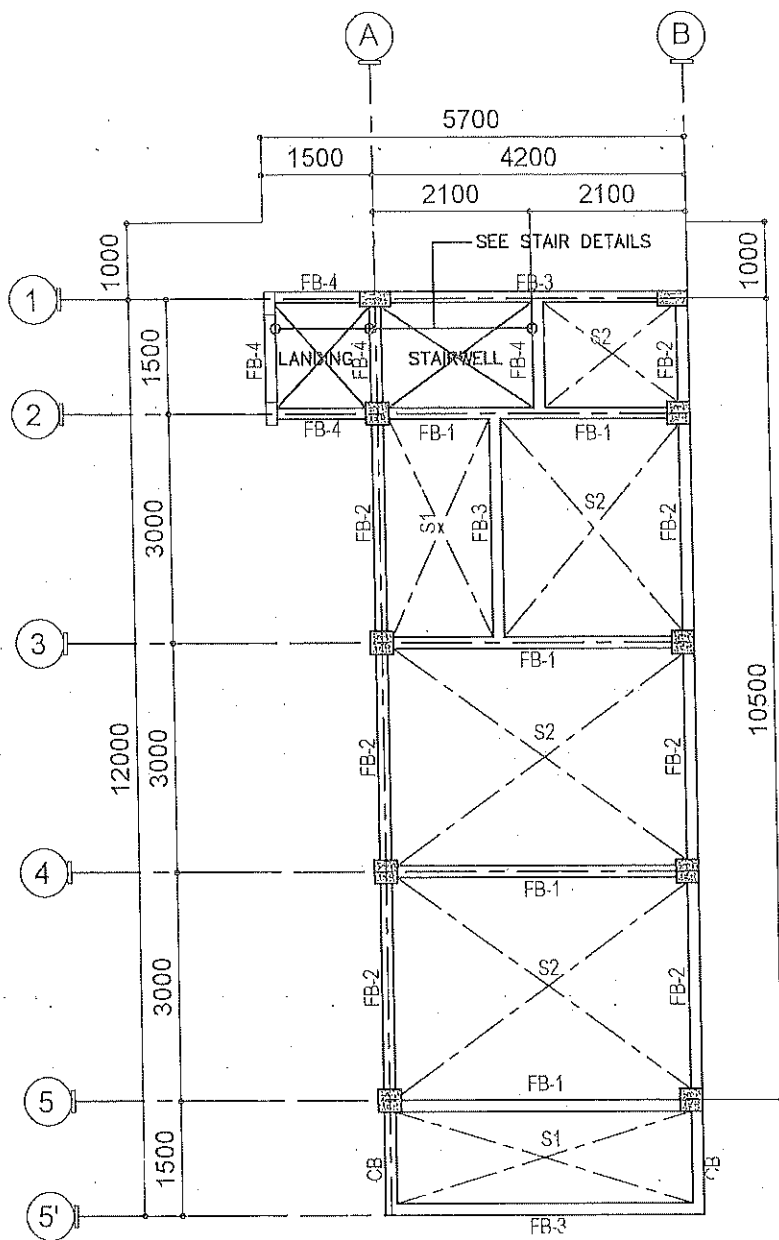
COLUMN FOOTING DETAIL 1
SCALE: 1:50 MTS.

COLUMN FOOTING DETAIL 2
SCALE: 1:50 MTS.

COLUMN FOOTING DETAIL 3
SCALE: 1:50 MTS.

COLUMN FOOTING DETAIL 4
SCALE: 1:50 MTS.

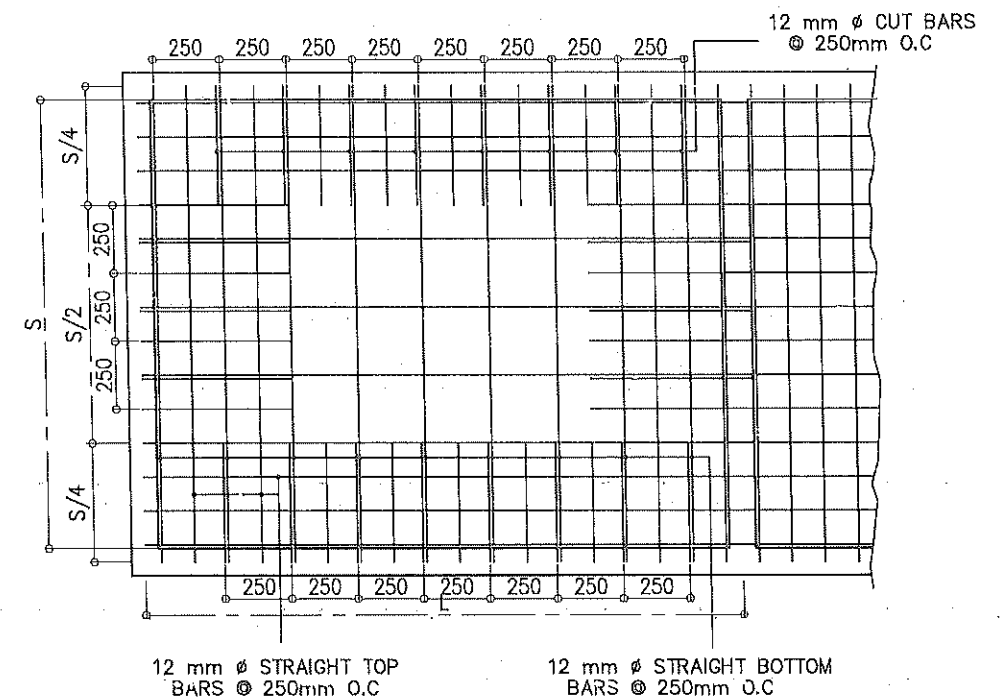
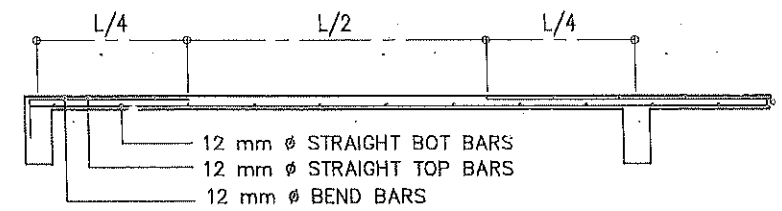
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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SECOND FLOOR FRAMING PLAN

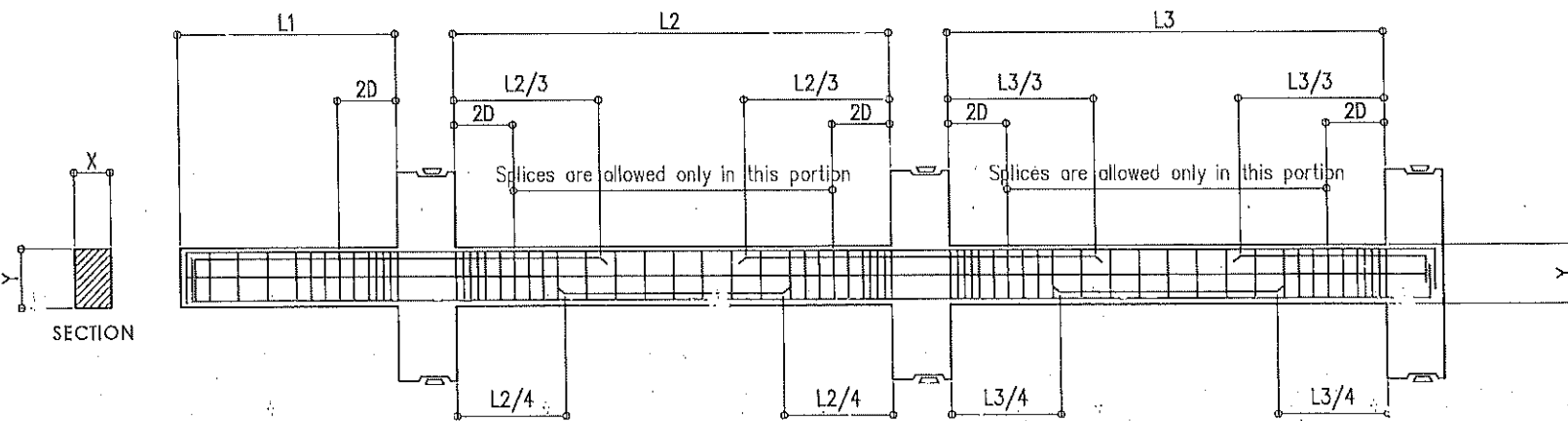
SCALE: 1:100 MTS.

BEAM MARK	SIZE		MAIN REINFORCEMENTS (GR.40)						STIRRUPS 10 mm Ø
	X(mm)	Y(mm)	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		
			TOP BAR	SECTION	TOP BAR	SECTION	TOP BAR	SECTION	
FTB	200	400	2-16mm Ø	SECTION	2-16mm Ø	SECTION	2-16mm Ø	SECTION	3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
GB	125	300	2-12mm Ø	SECTION	2-12mm Ø	SECTION	2-12mm Ø	SECTION	3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
FB-1	250	400	5-20mm Ø	SECTION	3-20mm Ø	SECTION	5-20mm Ø	SECTION	3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
FB-2	250	400	5-16mm Ø	SECTION	3-16mm Ø	SECTION	5-16mm Ø	SECTION	3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
FB-3	200	400	5-16mm Ø	SECTION	2-16mm Ø	SECTION	5-16mm Ø	SECTION	3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
FB-4	200	300	2-16mm Ø	SECTION	2-16mm Ø	SECTION	2-16mm Ø	SECTION	3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
CB	250	400	6-16mm Ø	SECTION	6-16mm Ø	SECTION	6-16mm Ø	SECTION	3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
RB	200	400	4-16mm Ø	SECTION	4-16mm Ø	SECTION	4-16mm Ø	SECTION	3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm



TYPICAL SLAB DETAIL

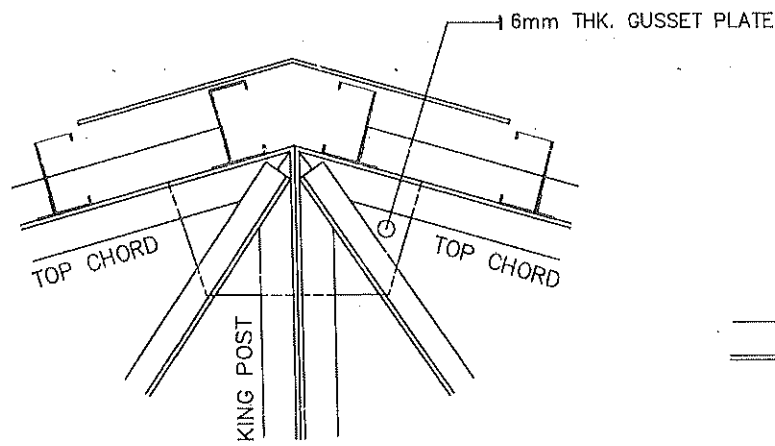
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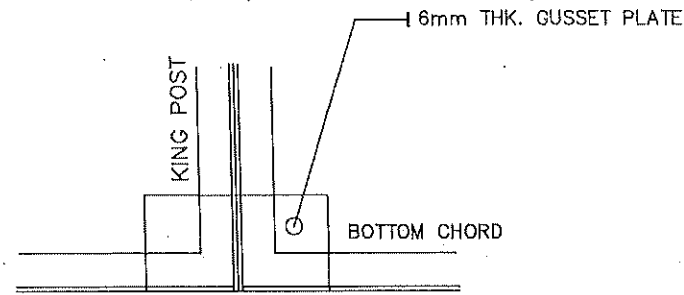
TYPICAL BEAM SECTION

FLOOR LEVEL	SLAB MARK	THICKNESS in mm	REBAR SPACING ALONG SHORT DIRECTION						REBAR SPACING ALONG LONG DIRECTION						REMARKS		
			REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		REBAR SIZE	LEFT SUPPORT		MIDSPAN			RIGHT SUPPORT	
				TOP	BOT.	TOP	BOT.	TOP	BOT.		TOP	BOT.	TOP	BOT.		TOP	BOT.
SECOND LEVEL	S2	125	12 Ø	250	250	-	250	250	250	12 Ø	250	250	-	250	250	250	2-WAY
SECOND LEVEL	S1	125	12 Ø	250	250	-	250	250	250	12 Ø	250	250	-	250	250	250	1-WAY

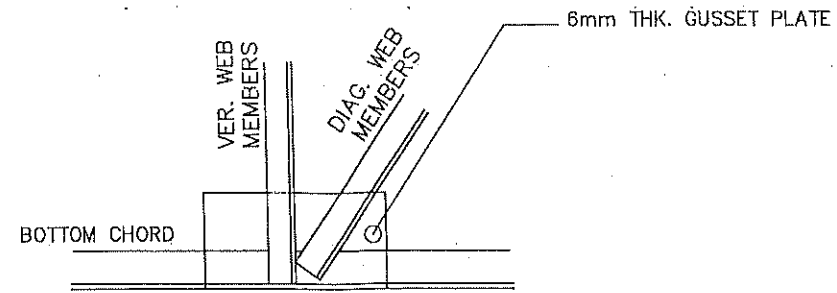
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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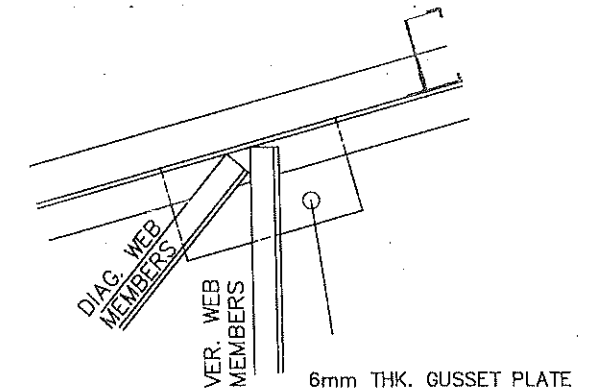
CONNECTION D-1
SCALE: 1:10 MTS.



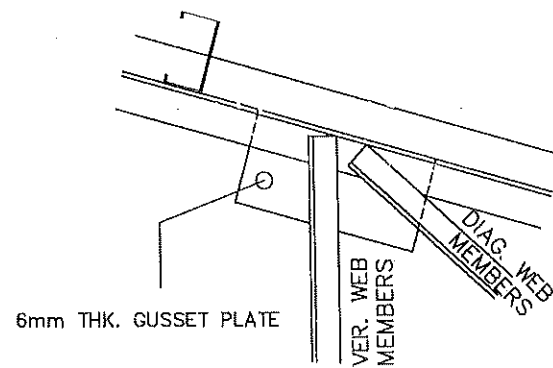
CONNECTION D-2
SCALE: 1:10 MTS.



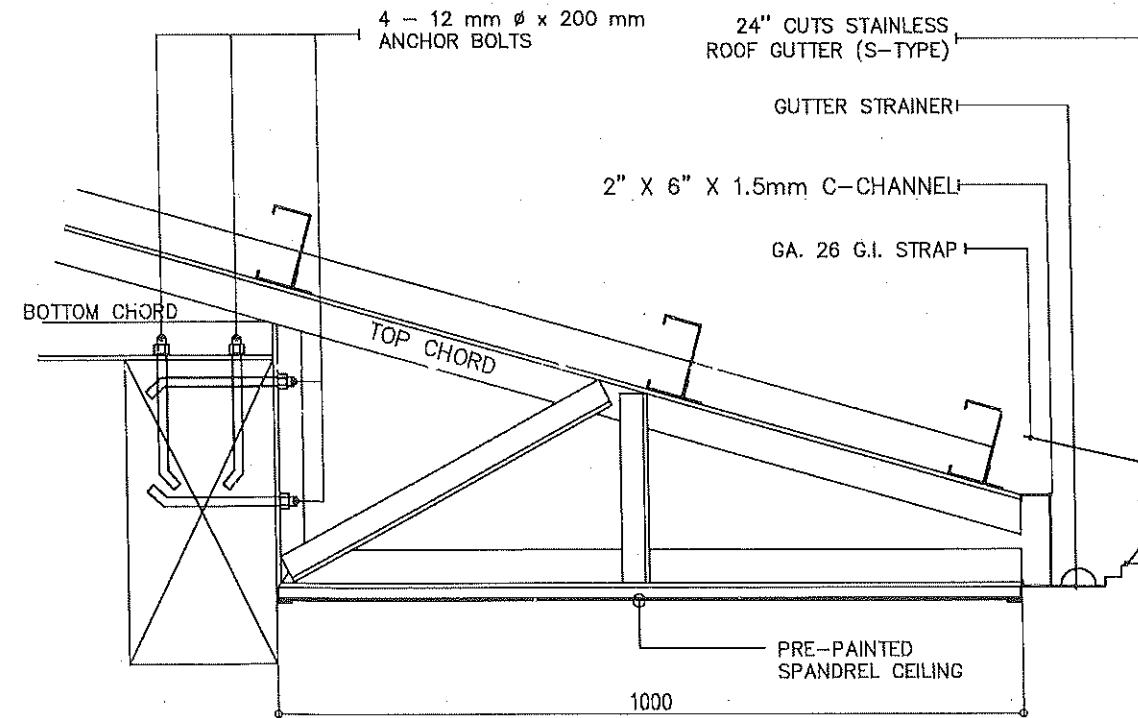
CONNECTION D-3
SCALE: 1:10 MTS.



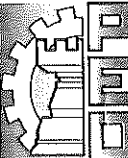
CONNECTION D-4
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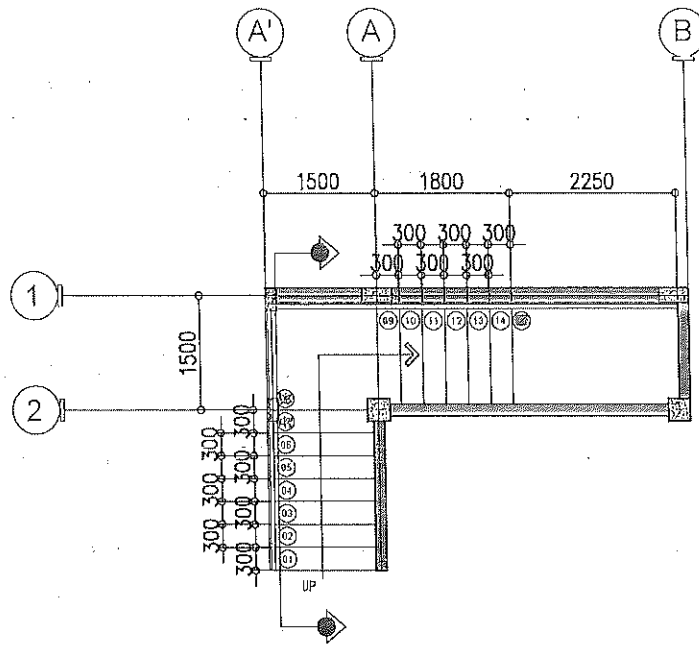


CONNECTION D-5
SCALE: 1:10 MTS.

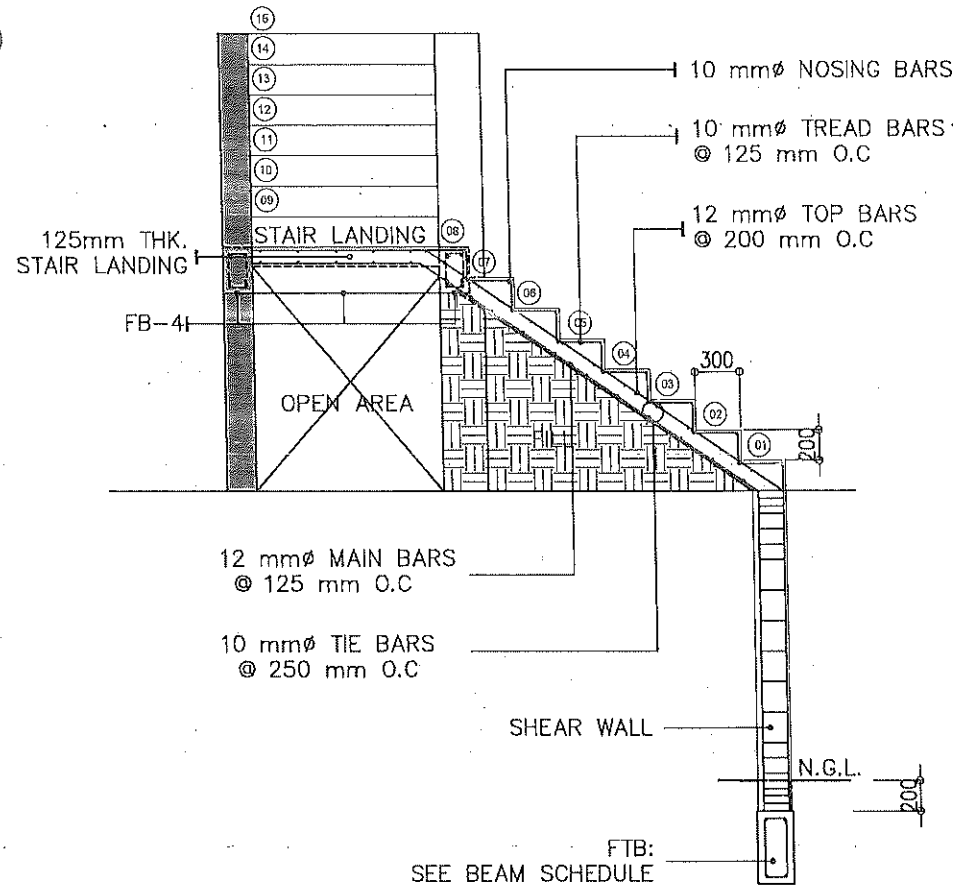


CONNECTION D-6
SCALE: 1:10 MTS.

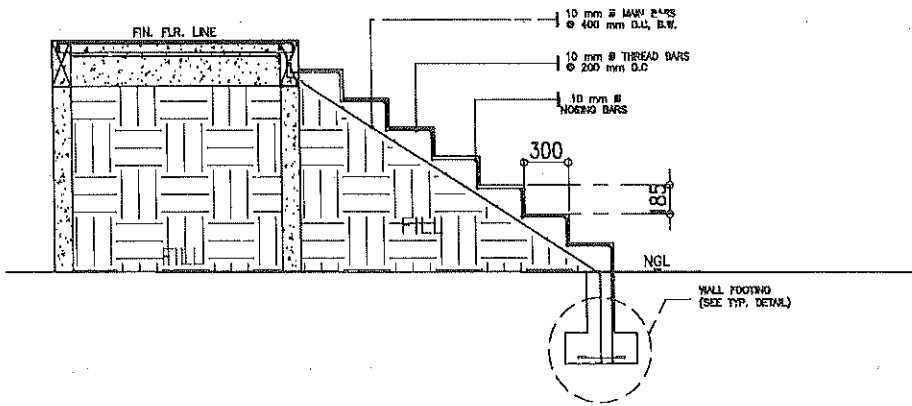
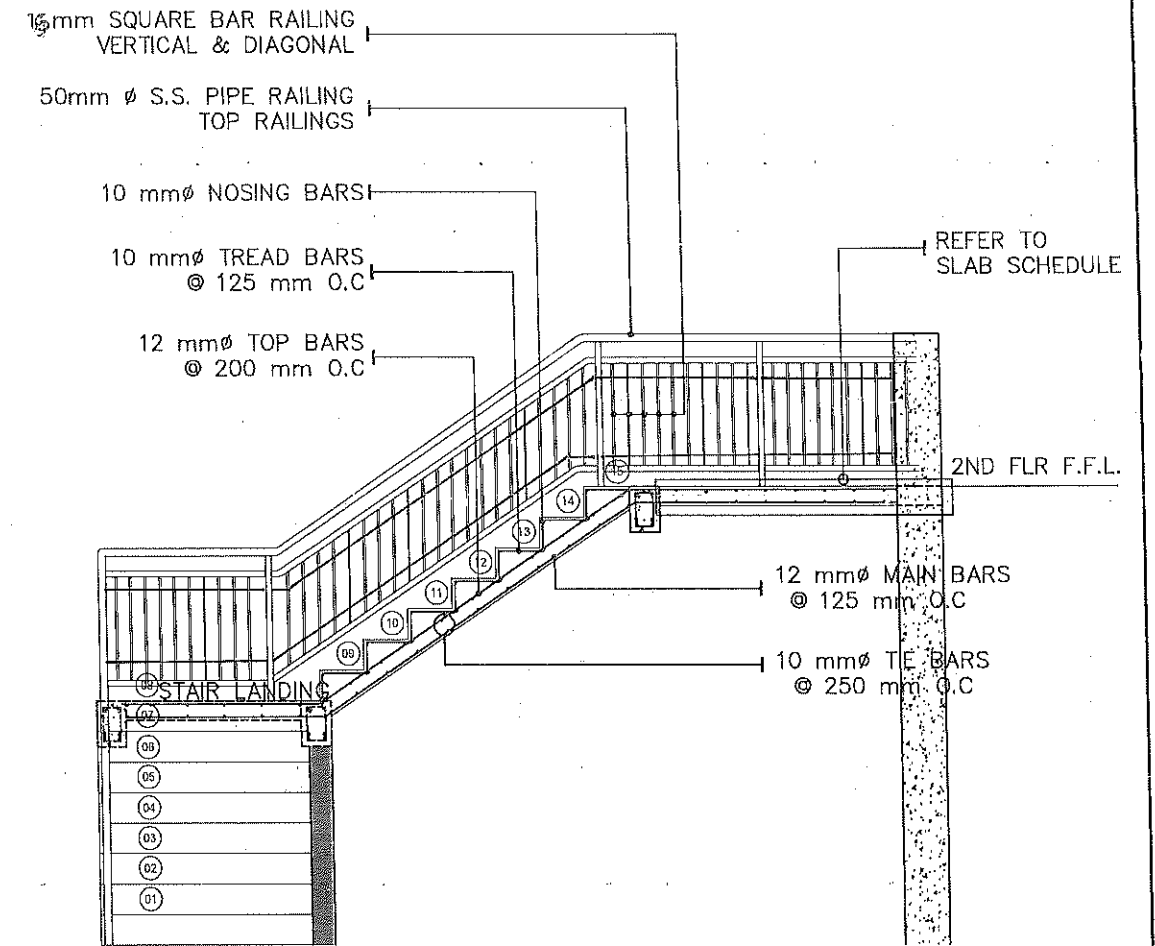
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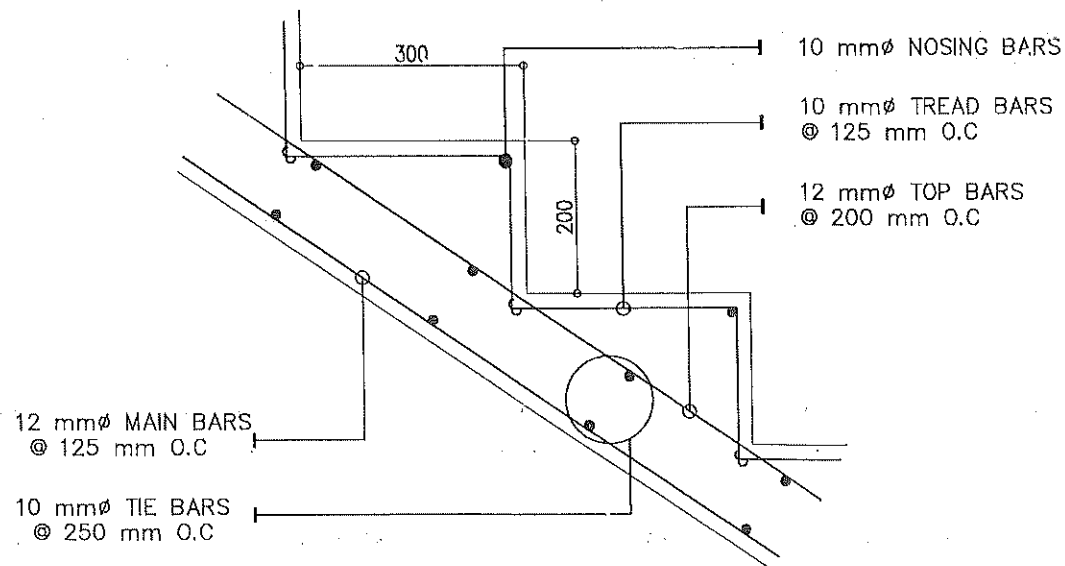
STAIR PLAN VIEW
SCALE: 1:100 MTS.



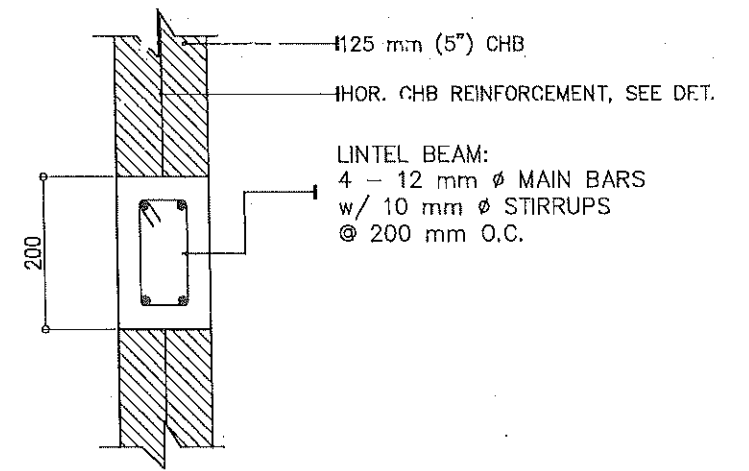
DETAIL OF STAIRS
SCALE: 1:50 MTS.



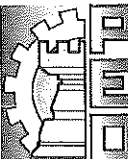
DETAIL OF STEPS
SCALE: 1:50 MTS.



TYPICAL RISER DETAIL
SCALE: 1:10 MTS.



DET. LINTEL BEAM (TYP.)
SCALE: 1:10 MTS.

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GENERAL NOTES & STANDARDS

1. DESIGN STRESS

- A. CONCRETE :
 COMPRESSIVE STRENGTH @ 28 DAYS = 3,000 PSI / 20.7 MPa
- B. REINFORCING BARS :
 a. 12 mm ϕ & GREATER = GR. 40 / 275 MPa
 b. 10 mm ϕ & BELOW = GR. 33 / 230 MPa
- C. STRUCTURAL STEEL, ASTM-A36:
 FOR TRUSSES, BRACINGS, ETC. = GR. 36 / 248 MPa
- D. PURLINS
 COLD FORMED LIGHT GAGE SHAPES = GR. 36 / 248 MPa
- E. MASONRY UNIT (CHB)
 NON-LOAD BEARING CHB WALLS = GR. 05 / 3.45 MPa
- G. STRUCTURAL BOLTS, ASTM-A307
 a. FT = GR. 14 / 96.60 MPa
 b. FV = GR. 10 / 69.00 MPa

2. MATERIALS

A. CONCRETE :

1. CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS :
- | | |
|--------------------------------|-------|
| a. FOOTINGS, FOOTING-TIE BEAMS | 75 mm |
| b. BEAMS & COLUMNS | 40 mm |
| c. SUSPENDED SLAB | 20 mm |
2. BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATING TO THE WORK.

B. REINFORCING BARS

- ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS THAT WILL IMPAIR BOND.
- ALL REINFORCING BARS SHALL BE ACCURATELY & SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT
- LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.
- UNLESS OTHERWISE INDICATED, SPlicing OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI-318M, EXCEPT THE MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETER BUT NOT LESS THAN 600 mm.
- UNLESS SHOWN OTHERWISE ON PLANS, SPLICES SHALL BE FOLLOWS :
 - INTERMEDIATE BEAMS : TOP BARS SHALL BE SPLICED MID-SPAN & BOTTOM BARS AT THE SUPPORT.
 - BEAMS FRAMING TO COLUMNS : TOP BARS SHALL BE SPLICED AT MID-SPAN & BOTTOM BARS SHALL NOT BE SPLICED W/IN THE COLUMN W/IN A DISTANCE OF TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. THE SPLICED LENGTH SHALL NOT BE LESS THAN 1.4 TIMES THE DEVELOPMENT LENGTH (L_d) BUT NOT LESS THAN 600 mm.
 - COLUMNS : LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF HEIGHT AND THE SPLICE SHALL NOT BE LESS THAN 30 BAR DIAMETER. WELDING OR THE USED OF APPROVED MECHANICAL DEVICES MAY BE PERMITTED PROVIDED NOT MORE THAN ALTERNATE BARS ARE WELDED OR SPLICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600 mm.
 - CHB WALLS : VERTICAL BARS SHALL BE SPLICED AT THE TOP OF THE WALL FOOTINGS OR FOOTING-TIE BEAMS AND AT THE BOTTOM OF REINFORCED CONCRETE LINTEL BEAMS OR BEAMS.
- UNLESS OTHERWISE INDICATED, ALL BEAMS TERMINATING AT A COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN, TERMINATING IN A STANDARD 90° HOOK LENGTH OF ANCHORAGE AND SHALL NOT BE LESS THAN 600 mm.
- SHOP DRAWING FOR REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER PRIOR TO FABRICATION & INSTALLATION.

C. STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM YIELD STRESS, $F_y = 248 \text{ MPa}$ (36,000 psi).
- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMMENDED TO DATE.
- ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE INDICATED.
- SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 AND PERFORMED BY QUALIFIED WELDERS.
- UNLESS OTHERWISE INDICATED, WELDING ELECTRODES SHALL BE E60.
- NO STEEL SHALL BE FABRICATED OR ERECTED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER.
- ANCHOR BOLTS CONFORM WITH ASTM A-307

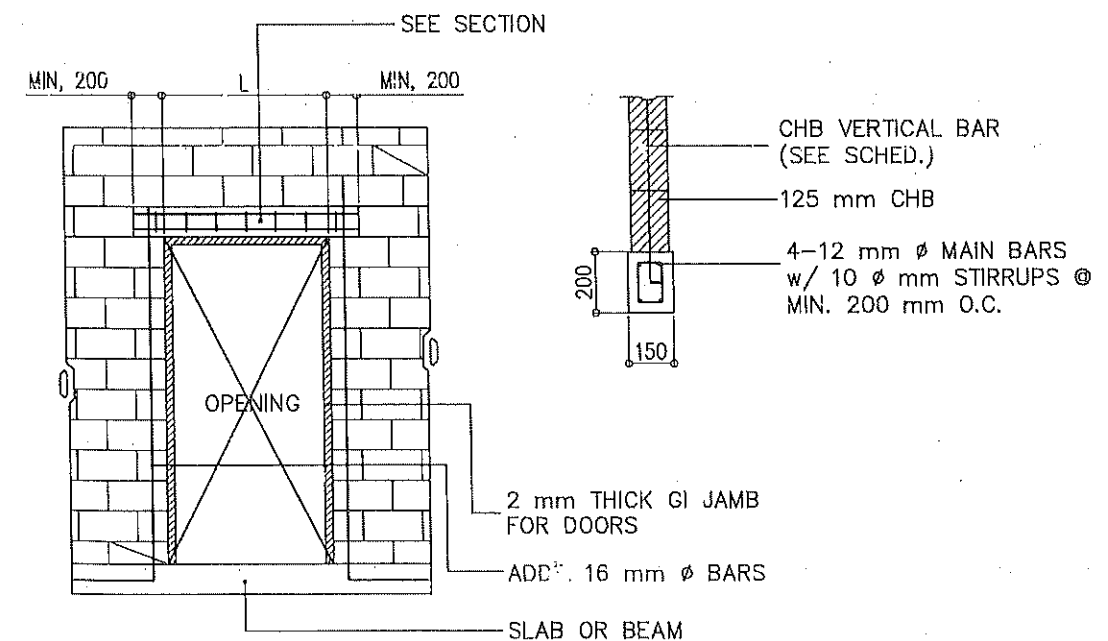
D. CONCRETE HOLLOW BLOCKS (CHB)

- UNLESS OTHERWISE INDICATED, CHB USED IN THIS WORK SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH, $F'_m = 3.45 \text{ MPa}$ (500 psi).
- ALL CHB CELLS SHALL BE FILLED SOLIDLY WITH GROUT
- SCHEDULE OF HOLLOW BLOCK REINFORCEMENT

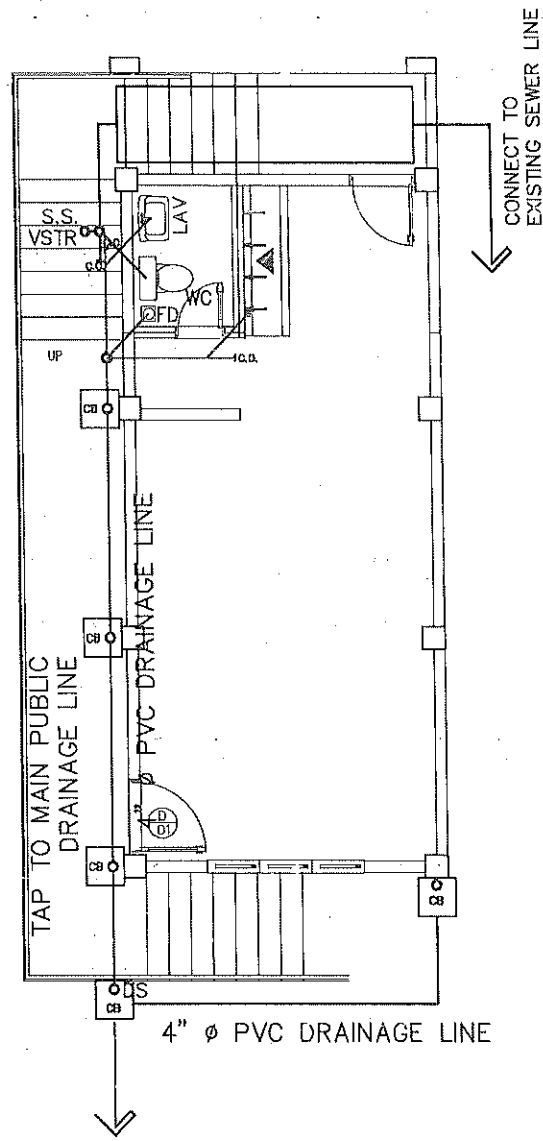
BLOCK THICKNESS	VERTICAL	HORIZONTAL
100 mm	800 mm	600 mm
125 mm	800 mm	600 mm
- SEE BELOW FOR DOOR & WINDOW OPENING DETAIL.

E. CONSTRUCTION JOINTS

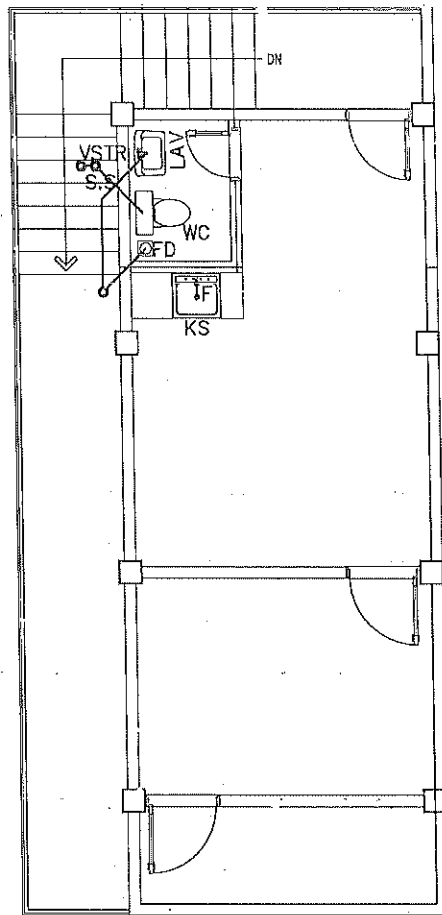
- CONSTRUCTION JOINT NOT INDICATED ON THE PLANS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER EXCEPT SLAB ON GRADE.
- UNLESS SHOWN OTHERWISE, SLAB ON GRADE SHALL HAVE CONTROL JOINTS SPACED AT 2000 mm MAXIMUM, CENTER TO CENTER.
- BEAMS CONSTRUCTION JOINT SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. IT SHALL BE PROVIDED WITH 3 EXTRA STIRRUPS @ 75mm O.C. ON EACH SIDE OF THE JOINT.



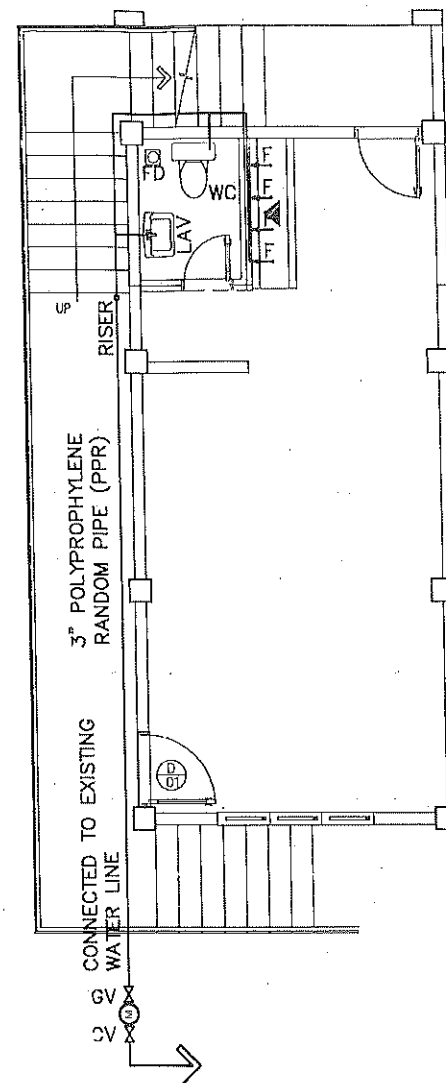
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS: SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF TWO (2) - STOREY MULTI-PURPOSE BUILDING	JUAN MIGUEL M. CARREON ENGINEER	ESMERALDO T. GULAPA ENGINEER IV	WILFREDO A. MANALLI ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR:	ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR
	LOCATION:	CAD BY:						
	SAN ISIDRO, MACABEBE, PAMPANGA	D. G. HERNANDEZ						STRUCTURAL



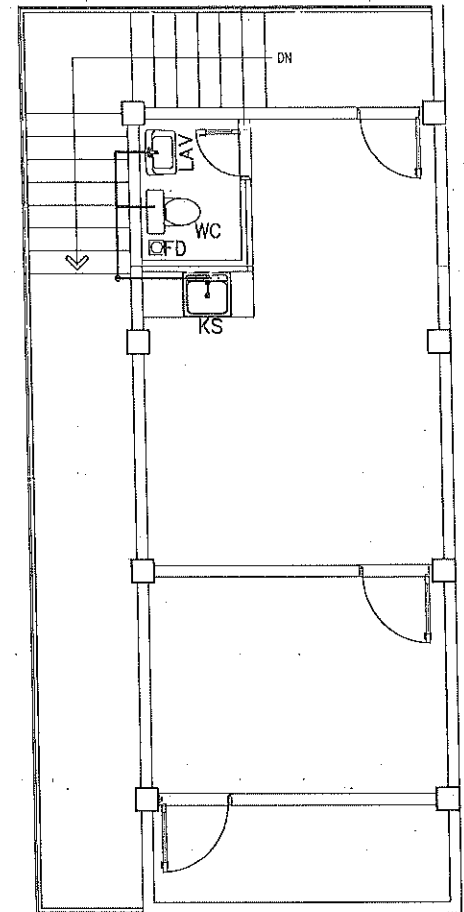
**GROUND FLOOR
SEWER LINE LAY-OUT**
SCALE: 1:100 MTS.



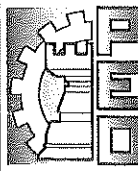
**SECOND FLOOR
SEWER LINE LAY-OUT**
SCALE: 1:100 MTS.

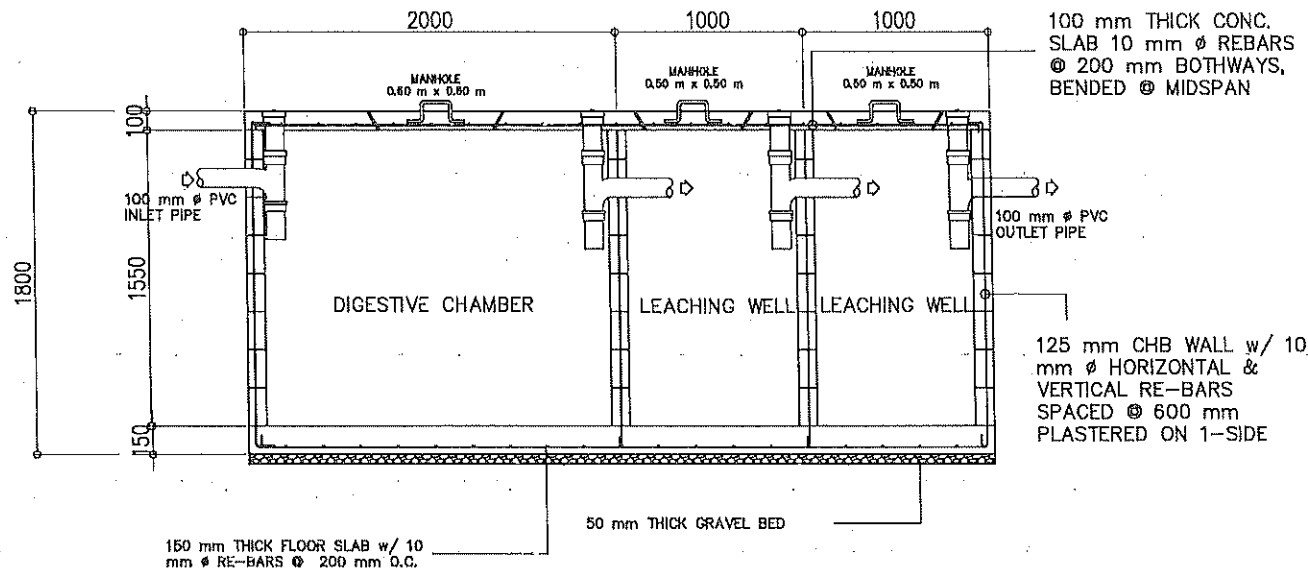
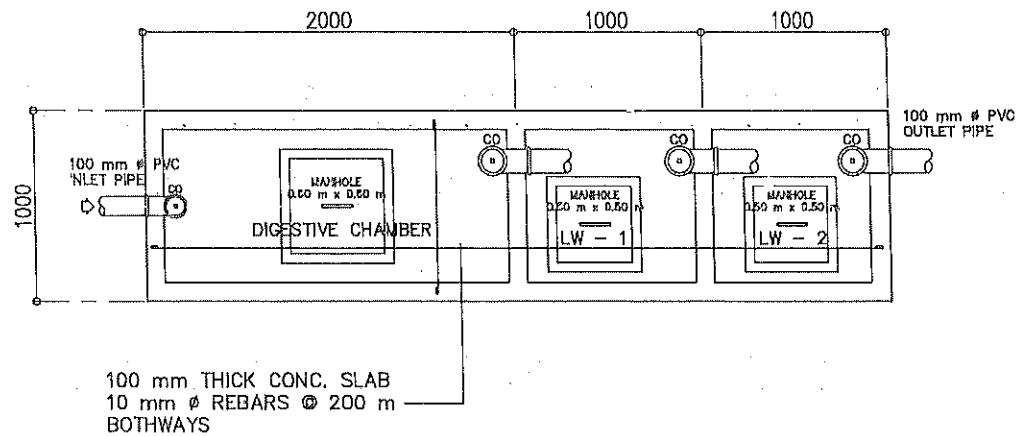


**GROUND FLOOR
WATER LINE LAY-OUT**
SCALE: 1:100 MTS.



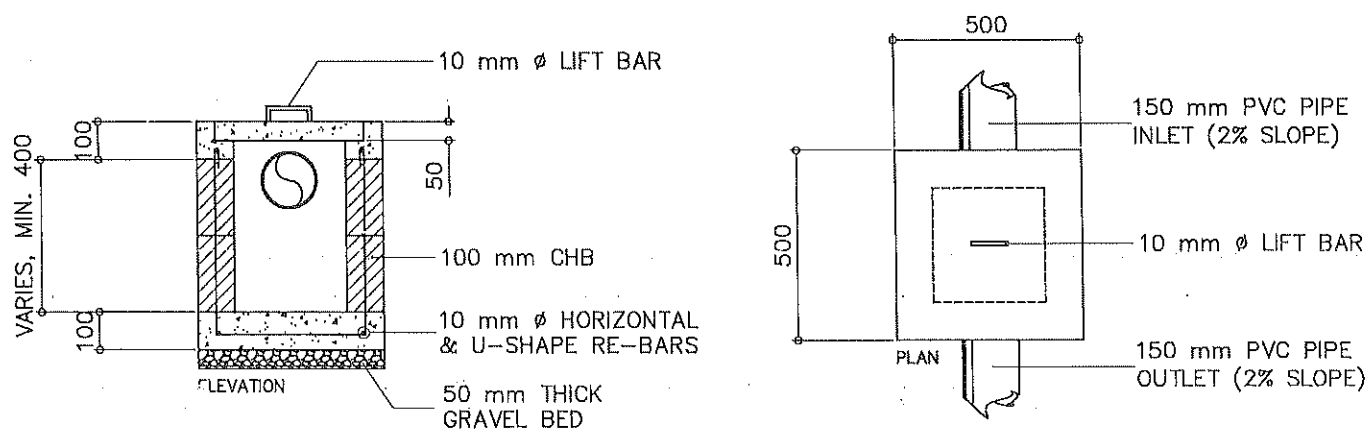
**SECOND FLOOR
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DET. OF SEPTIC VAULT

SCALE: 1:40 MTS.



DET. OF CATCH BASINS

SCALE: 1:20 MTS.

GENERAL NOTES:

- ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, NATIONAL BUILDING CODE & ALL APPLICABLE RULES AND REGULATIONS
- COORDINATE THE DRAWING PLANS, SPECIFICATIONS & OTHER RELATED MATERIALS TO THE SUPERVISING ENGINEER/ARCHITECT FOR ANY DISCREPANCIES FOUND PRIOR TO THE EXECUTION OF WORK.
- ALL PIPES, FIXTURES AND OTHER UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH, INVERT ELEVATIONS. ANY CHANGES TO BE MADE SHALL BE COORDINATED WITH THE SUPERVISING ENGINEER/ARCHITECT FOR THE NECESSARY ADJUSTMENT TO ENSURE PROPER EXECUTION OF WORK
- SEWER/DRAIN/WASTE PIPING REQUIREMENT :

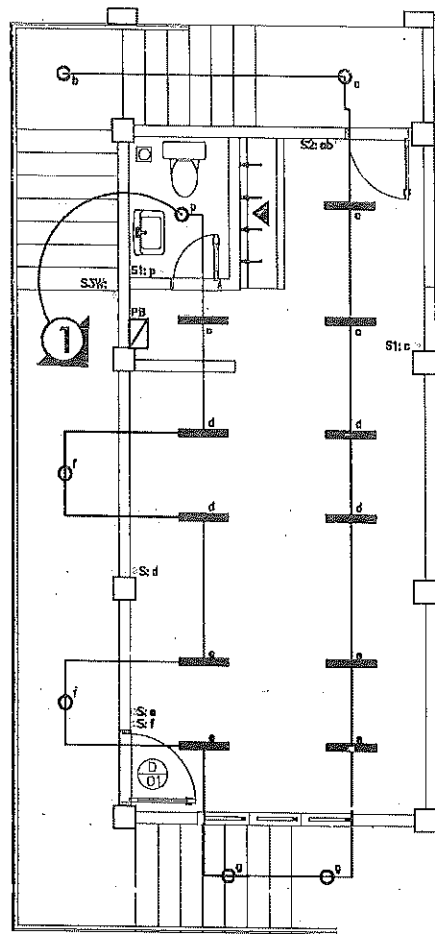
MAIN DRAINAGE	-	100 mm ϕ PVC PIPE
DOWNSPOUTS	-	75 mm ϕ PVC PIPE
MAIN SOIL STACK	-	100 mm ϕ PVC PIPE
SOIL BRANCH	-	100 mm ϕ PVC PIPE
BRANCH VENT	-	75 mm ϕ PVC PIPE
P-TRAP, FD & UR	-	50 mm ϕ P-TRAP
WASTE PIPE, WC	-	100 mm ϕ PVC PIPE
WASTE PIPE, LAV, FD & KS	-	50 mm ϕ PVC PIPE
- WATER LINE PIPING REQUIREMENT:

MAIN WATER LINE/RISER	-	32 mm ϕ PPR PIPE
BRANCH WATER LINE	-	20 mm ϕ PPR PIPE
- GRADES OF HORIZONTAL PIPINGS :
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT & AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
- CHANGE DIRECTION :
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND, SIXTH-EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE $\frac{1}{4}$ BEND COMBINATION MAY BE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS MAYBE USED ON WASTE LINE, TEE AND CROSSES MAYBE USED IN BENT PIPES
- PIPE CLEAN-OUTS :
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS :
 - EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING 22-1/2'
 - 1.50 m INSIDE THE PROPERTY LINE BEFORE THE BUILDING DRAINAGE CONNECTION.
 - EVERY 15.0 m IN HORIZONTAL RUN OF PIPES
 - AT THE END OF HORIZONTAL PIPES
- THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
- NOT LESS THAN 0.30 m OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE VAULT ROOF SLAB.
- ALL PLUMBING WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER PLUMBER AND LICENSE PLUMBING CONTRACTOR.

LEGEND & SYMBOLS

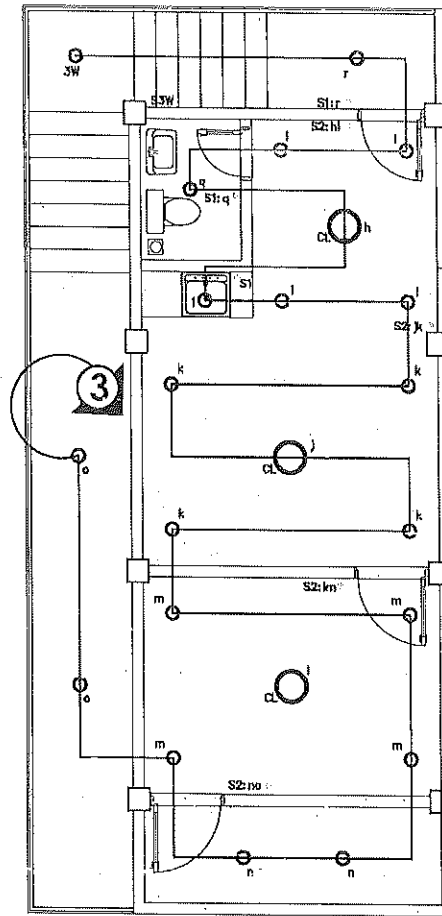
SHO - SHOWER	WC - WATER CLOSET
FAU - FAUCET	FD - FLOOR DRAIN
URI - URINAL	SD - SINK DRAIN
DS - DOWNSPOUT	RD - ROOD DRAIN
CO - CLEAN-OUT	LAV - LAVATORY WITH PEDESTAL

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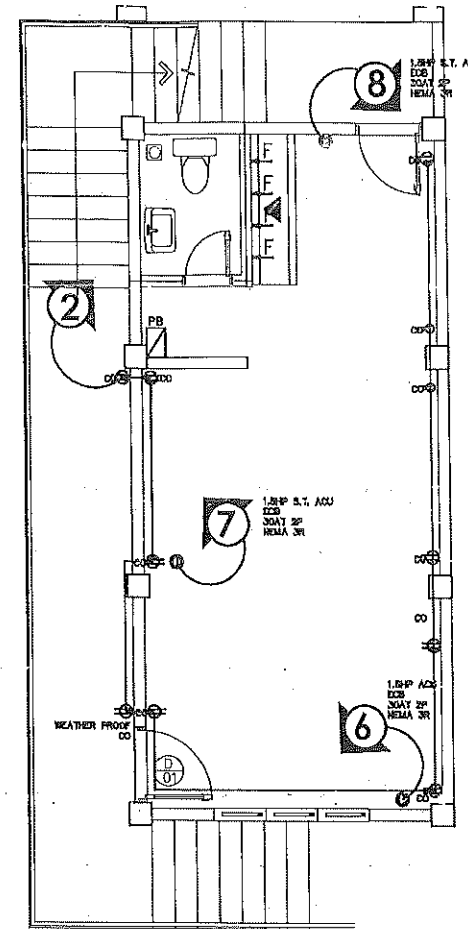
**GROUND FLOOR
LIGHTING LAY-OUT**

SCALE: 1:100 MTS.



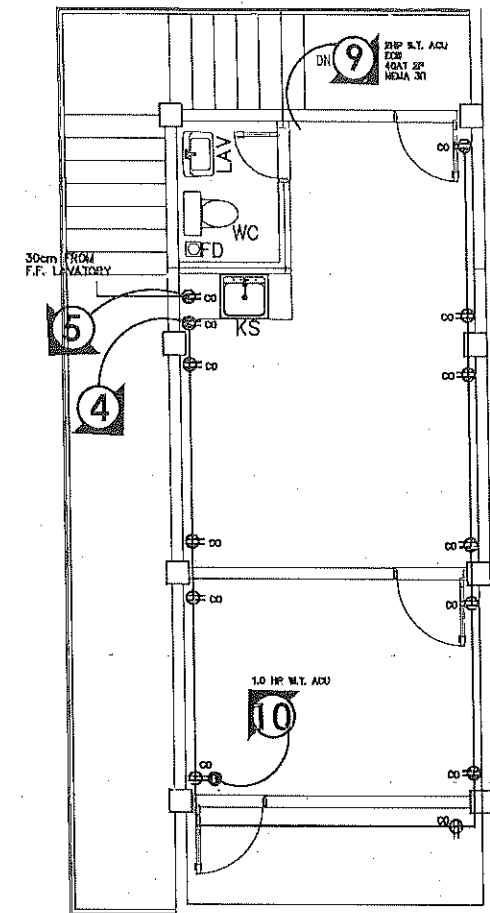
**SECOND FLOOR
LIGHTING LAY-OUT**

SCALE: 1:100 MTS.



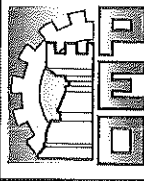
**GROUND FLOOR
POWER LAY-OUT**

SCALE: 1:100 MTS.



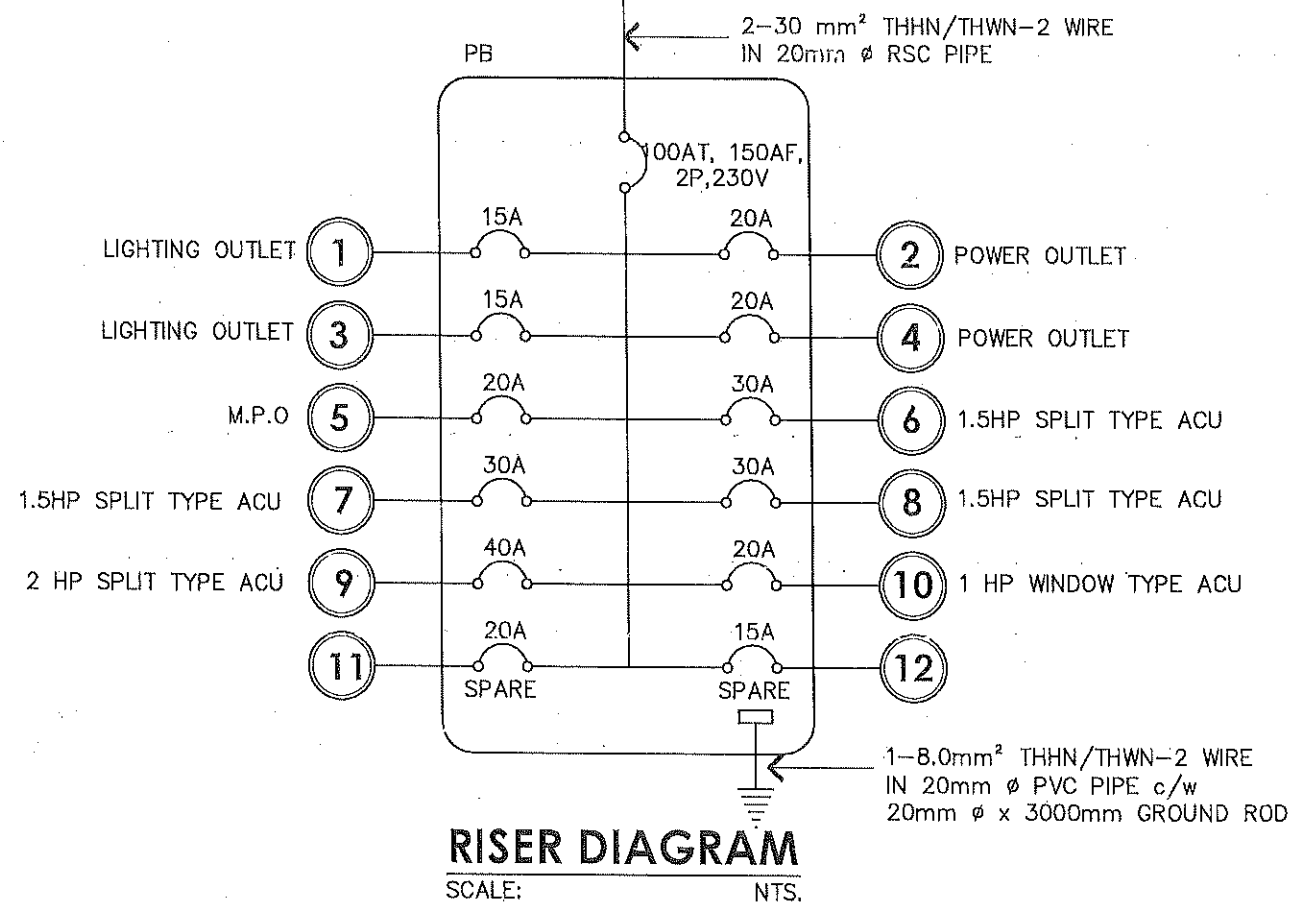
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SINGLE PHASE SOURCE 230V

AERIAL SERVICE ENTRANCE



SCHEDULE OF LOADS

Ckt. No.	DESCRIPTION	LOAD CALCULATIONS			OVER-CURRENT PROTECTION			
		V	VA	A	AT	AF	P	
1	11-1X18W LED Fluorescent Lamp (Dustproof, recessed, surface mounted)	220	261	1.20	15	50		2-3.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
2	7 - 1x9W Led Downlights	220	1980	9	20	50		2-3.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
3	30 - 1x9W Led Downlights 3 - 1x24W Ceiling Lamps	220	252	1.14	15	50		2-3.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
4	12 - C.O.s @ 180W	220	2160	9.82	20	50		2-3.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
5	1 - M.P.O	220	1500	6.82	20	50		2-3.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
6	1.5 HP Split Type AC Unit	220	2300	10	30	50	2	2-5.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
7	1.5 HP Split Type AC Unit	220	2300	10	30	50	2	2-5.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
8	1.5 HP Split Type AC Unit	220	2300	10	30	50	2	2-5.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
9	2.0 HP Split Type AC Unit	220	2760	12	40	50	2	2-5.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
10	1.0 HP Window Type AC Unit	220	1760	8	20	50	2	2-3.5mm ² THHN Wire in 20mm ϕ UPVC 1-2.0mm ² THHN Cu. GROUND WIRE
11	SPARE	220	1000	4.54	15	50	2	PVC
12	SPARE	220	1000	4.54	15	50	2	PVC

COMPUTATIONS:
FEEDER LINE COMPUTATIONS
I = 87.06 + (12 X 0.25)85% DF
I = 77 AMPS

COMPUTATIONS:
MAIN CIRCUIT BRAKER COMPUTATIONS
I = 93.06 + (12 X 1.5)85% DF
I = 89 AMPS

USE: 100AT/150AF, 2P, MCCB,
2-30sqmm THHN/THWN-2(L) + 8.0sqmm
THHN/THWN-2(G) IN 50mm DIA. PVC CONDUIT OR
IN 40mm DIA. RSC CONDUIT WITH BRANCHES
BOLT ON TYPE:
3-15AT, 2P ; 3-30AT, 2P
5-20AT, 2P ; 1-40AT, 2P

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18 / 19

GENERAL NOTES:

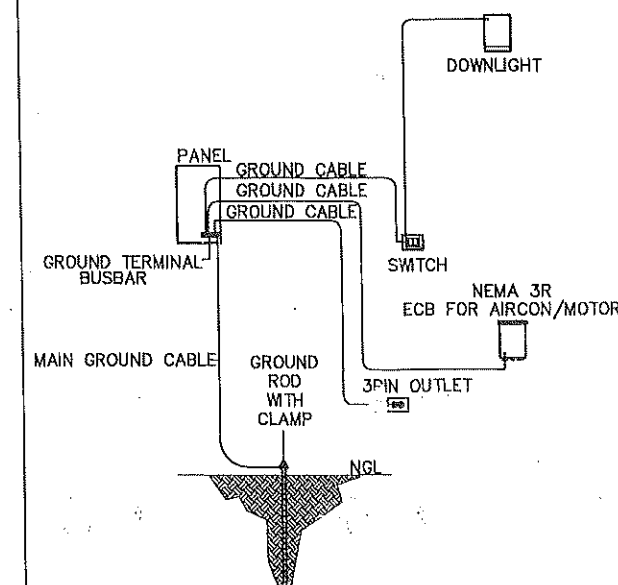
1. ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY. THE ELECTRICAL WORKS SHALL BE UNDER IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
2. THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRE, 230V AC, 60Hz.
3. WIRING METHOD SHALL BE AS FOLLOWS;
 - a. FEEDERS AND RISERS – INTERMEDIATE METALLIC CONDUIT
 - b. LIGHTING POWER RECEPTACLE – POLYVINYL CHLORIDE CONDUIT BRANCH CKT. & AUXILIARY, SCH. 40.
4. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THW" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mmØ TRADE/NORMAL SIZE.
5. ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE WITH FACTORY KNOCKOUTS.
6. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
7. GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
8. MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS;

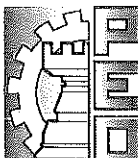
a. LIGHTING SWITCH	– 1.20 m ABOVE FINISHED FLOOR
b. CONVENIENCE OUTLET	– 0.30 m ABOVE FINISHED FLOOR
c. WALL FAN OUTLET	– 1.80 m ABOVE FINISHED FLOOR
d. PANEL BOARD	– 1.50 m ABOVE FINISHED FLOOR

LEGEND & SYMBOLS:

-  24W LED CEILING LAMPS
-  9W LED DOWNLIGHTS
-  18W LED FLUORESCENT LAMP
-  MAIN PANEL BOARD
-  ARIAL SERVICE ENTRANCE
-  HOME RUN
- Sa ONE GANG SWITCH
- Sab TWO GANG SWITCH
- Sabc THREE GANG SWITCH
- S3W THREE WAY SWITCH
-  KILOWATT METER
-  DUPLEX CONVENIENCE OUTLET

**DEDICATED GROUNDING SYSTEM
(GROUND CABLE SIZE SEE LOAD SCHEDULE)**



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