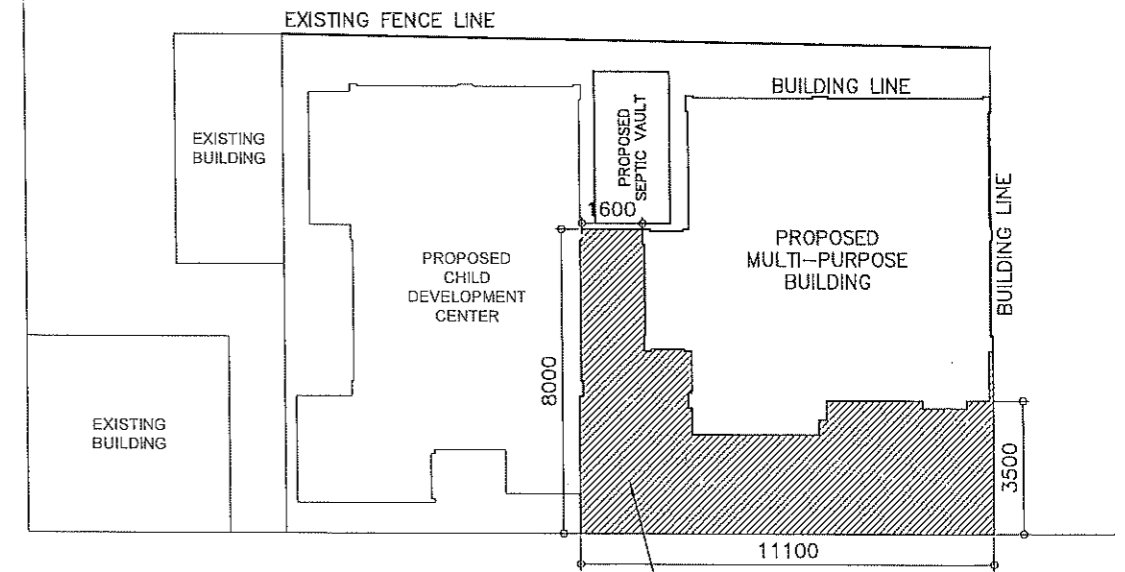




PERSPECTIVE



VICINITY MAP

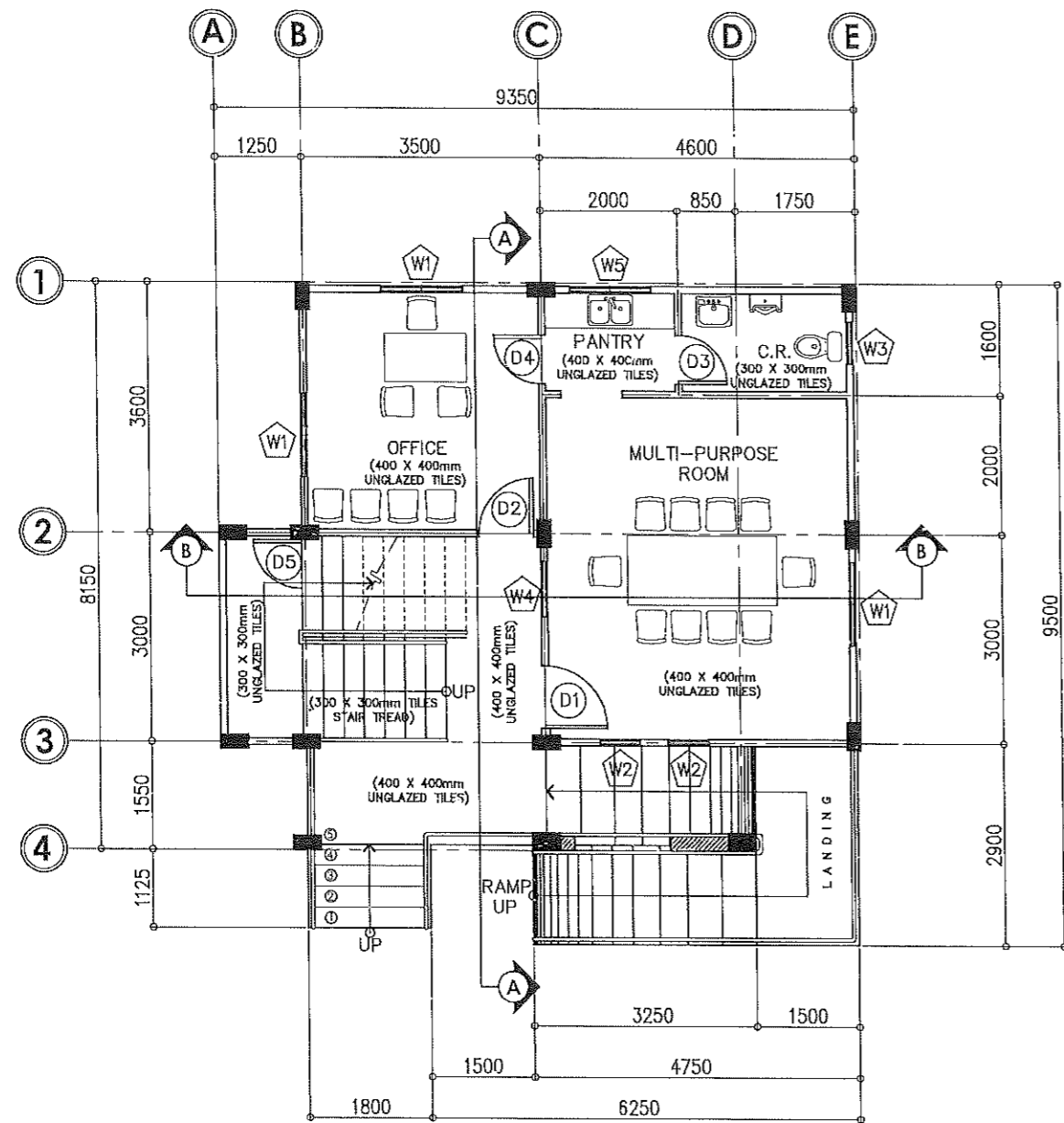


100 mm THK. CONC. PAVEMENT
WITH 10mm Ø HORIZONTAL BAR
SPACED @ 500mm ON BOTH WAYS

SITE DEV. PLAN

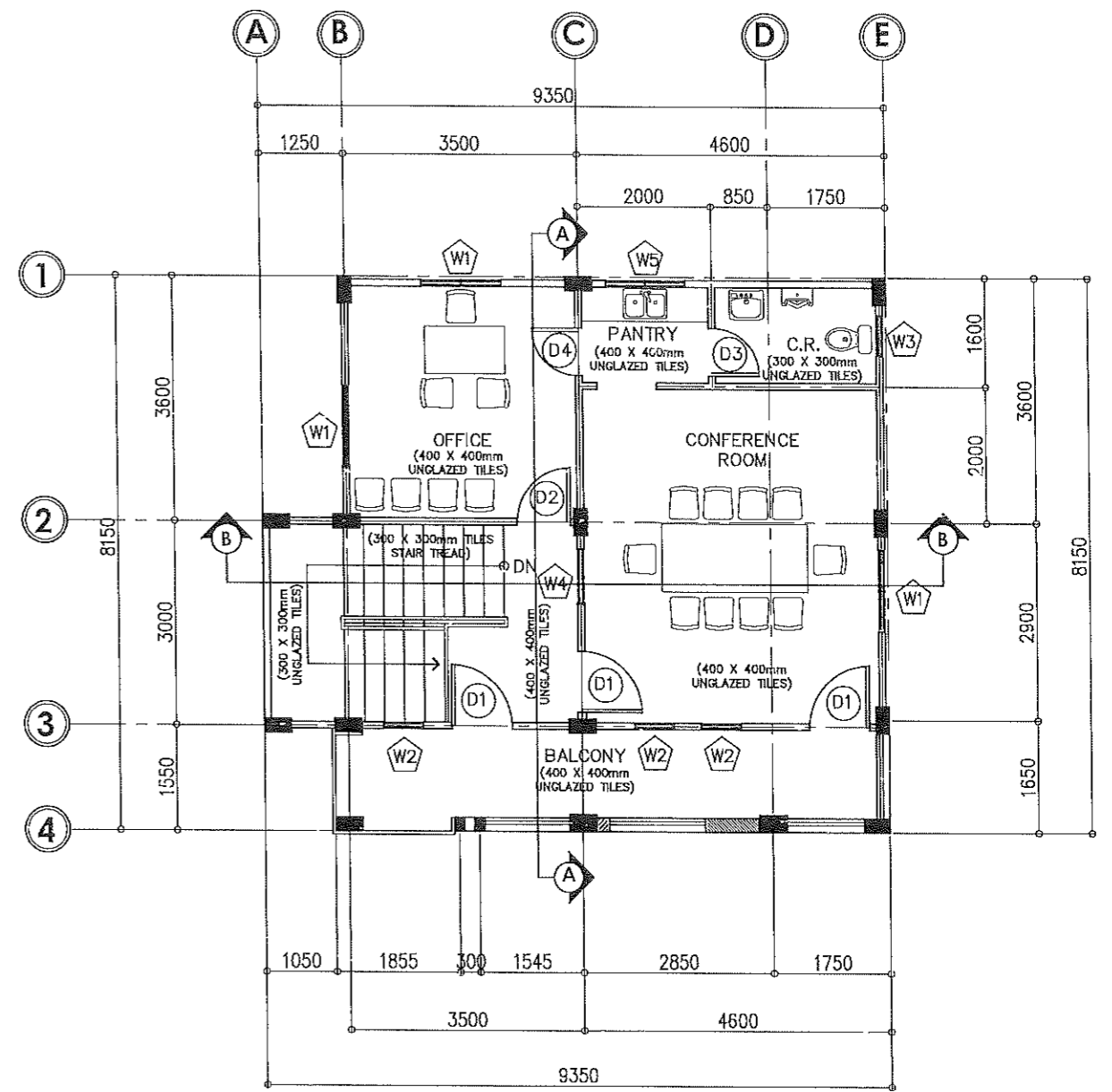
SCALE: 1:200 m

	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	CONSTRUCTION OF TWO (2) - STOREY MULTI-PURPOSE BUILDING	 CRYSTAL KAYE M. CUNANAN ENGINEER II	 BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	 WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	 OLIMPIO M. PANGAN PROVINCIAL ENGINEER	 ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR	AS SHOWN	A - 1
	CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	CAD BY: R. GANIA JR.						ARCHITECTURAL	1/14



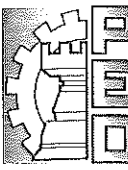
GROUND FLOOR PLAN

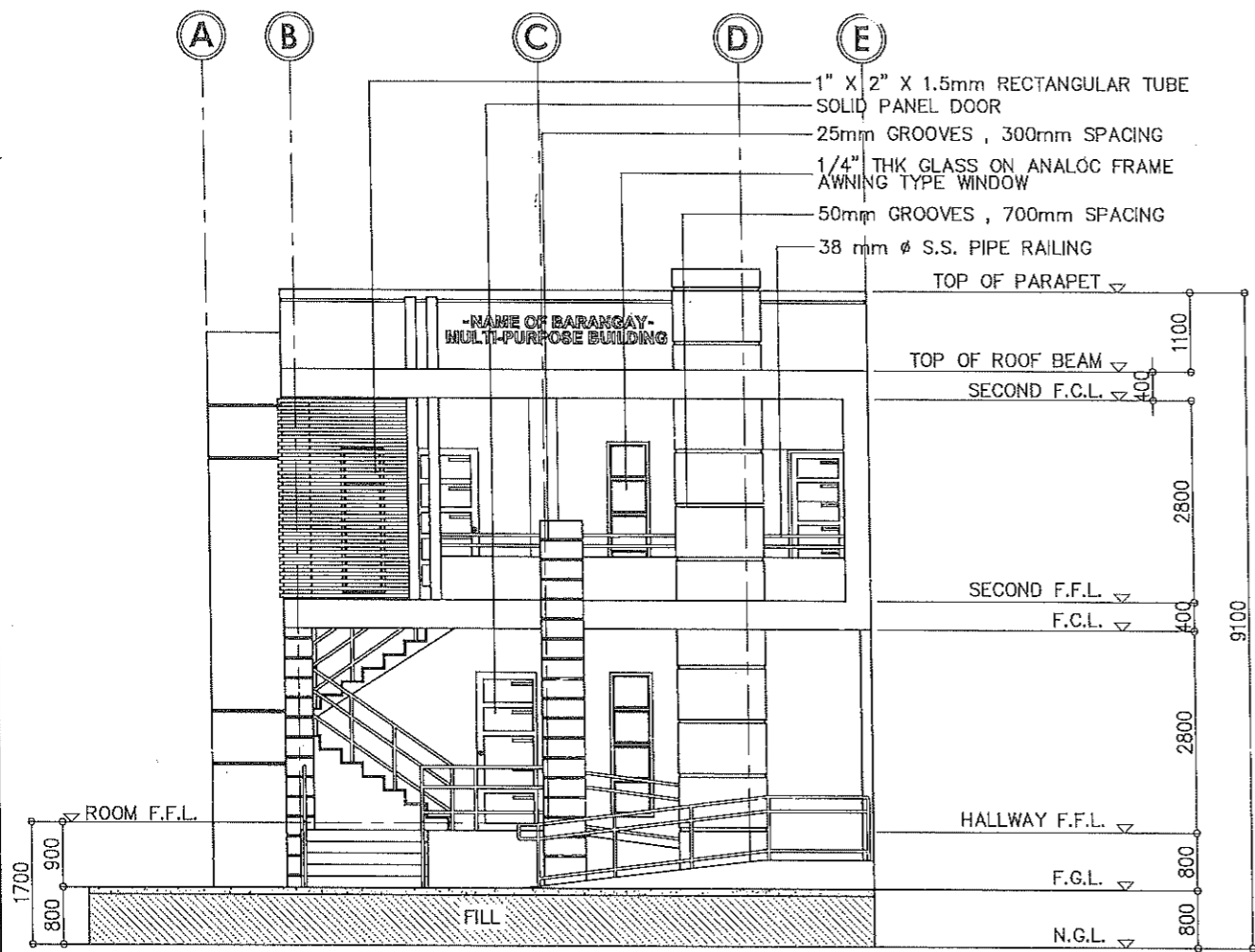
SCALE: 1:100 m



SECOND FLOOR PLAN

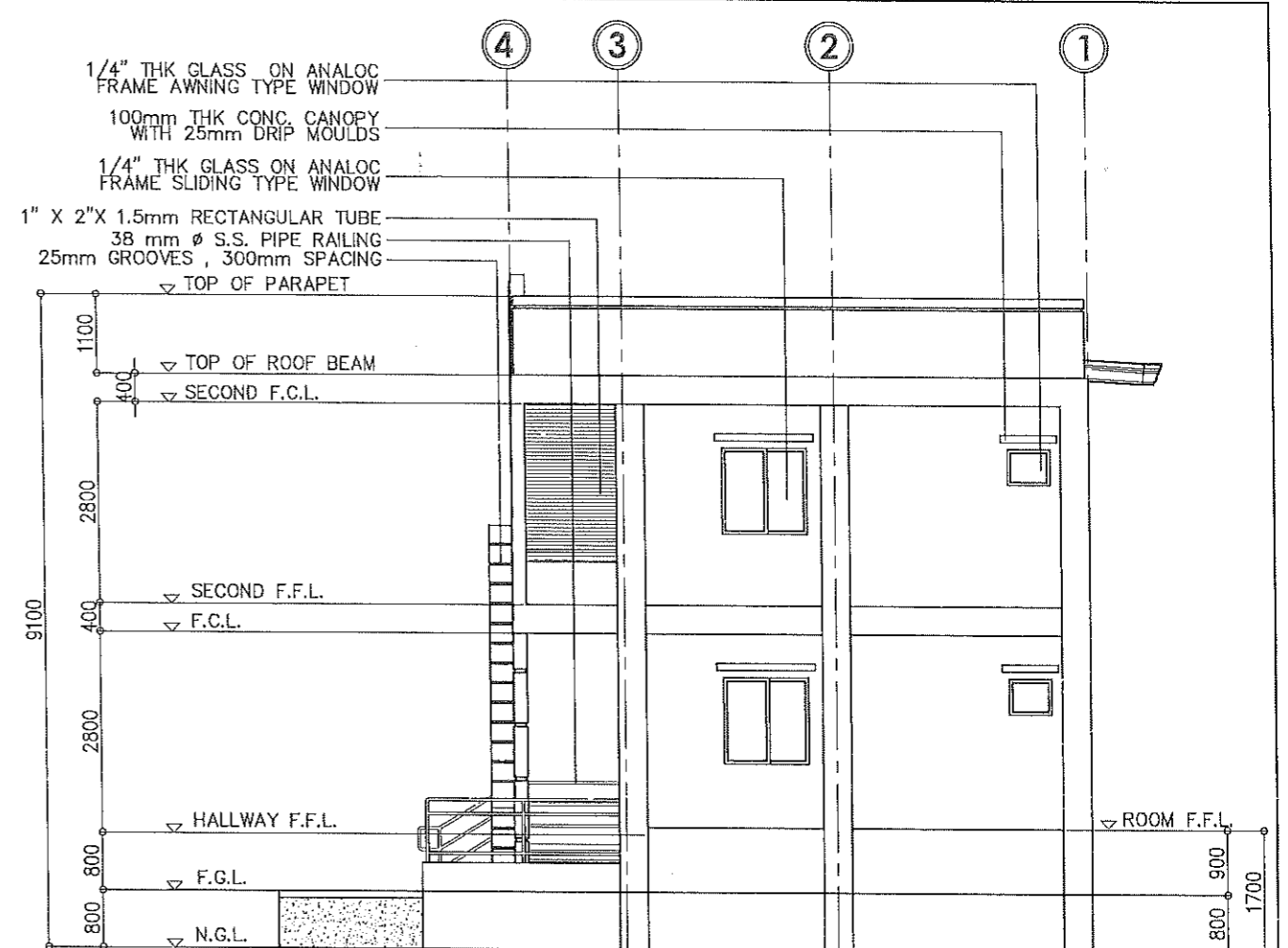
SCALE: 1:100 m

	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 ROQUE, GUAGUA, PAMPANGA	<i>[Signature]</i> CRYSTAL KAYE M. CUNANAN ENGINEER II CAD BY: R. GANIA JR.	<i>[Signature]</i> BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	<i>[Signature]</i> WILFREDO A. MANALI ASSISTANT PROVINCIAL ENGINEER	<i>[Signature]</i> OLIMPIO M. PANGAN PROVINCIAL ENGINEER	<i>[Signature]</i> ATY. CHARLE G. CHUA PROVINCIAL ADMINISTRATOR	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR:	AS SHOWN



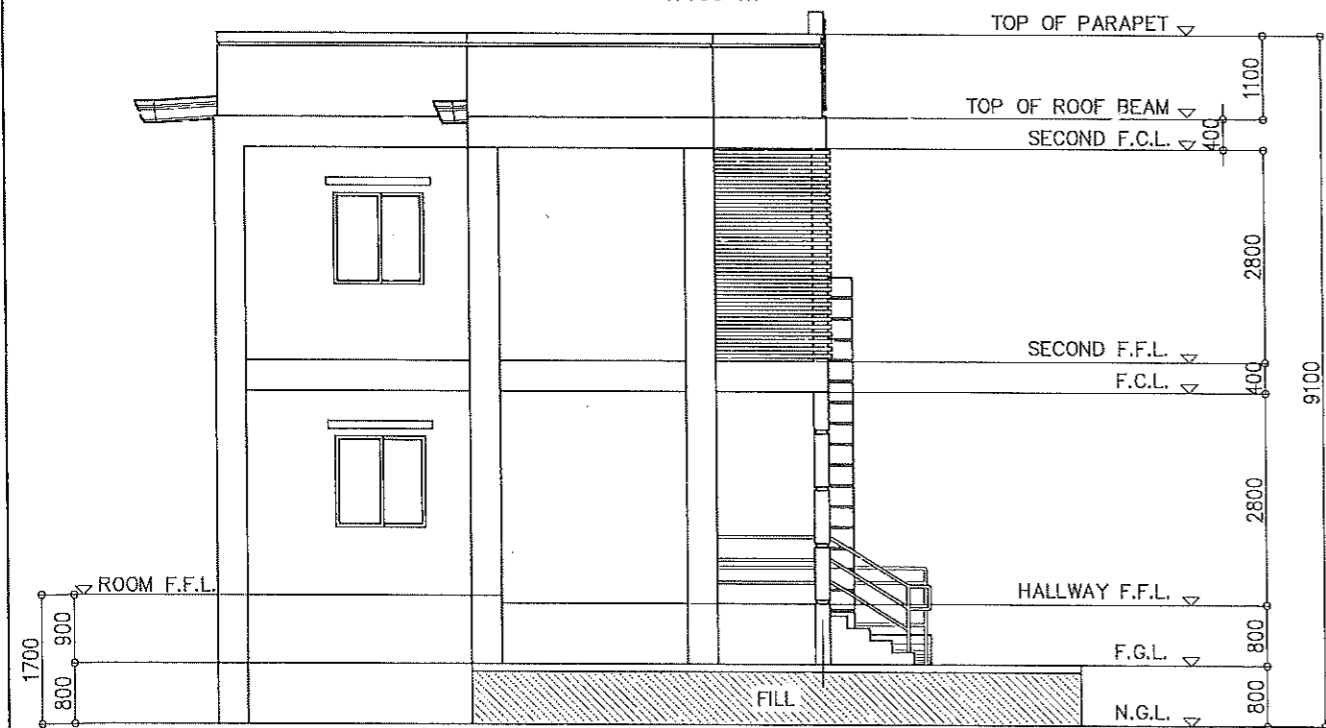
FRONT ELEVATION

SCALE: 1:100 m



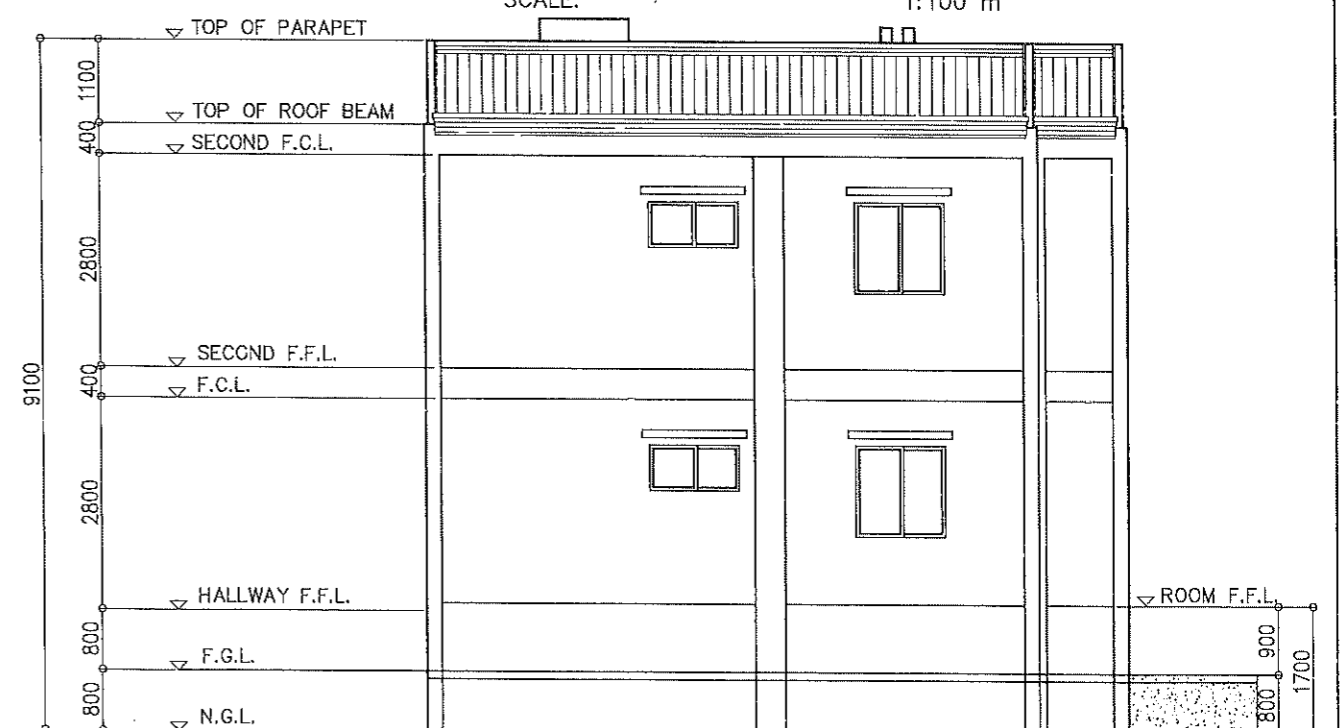
RIGHT SIDE ELEVATION

SCALE: 1:100 m



LEFT SIDE ELEVATION

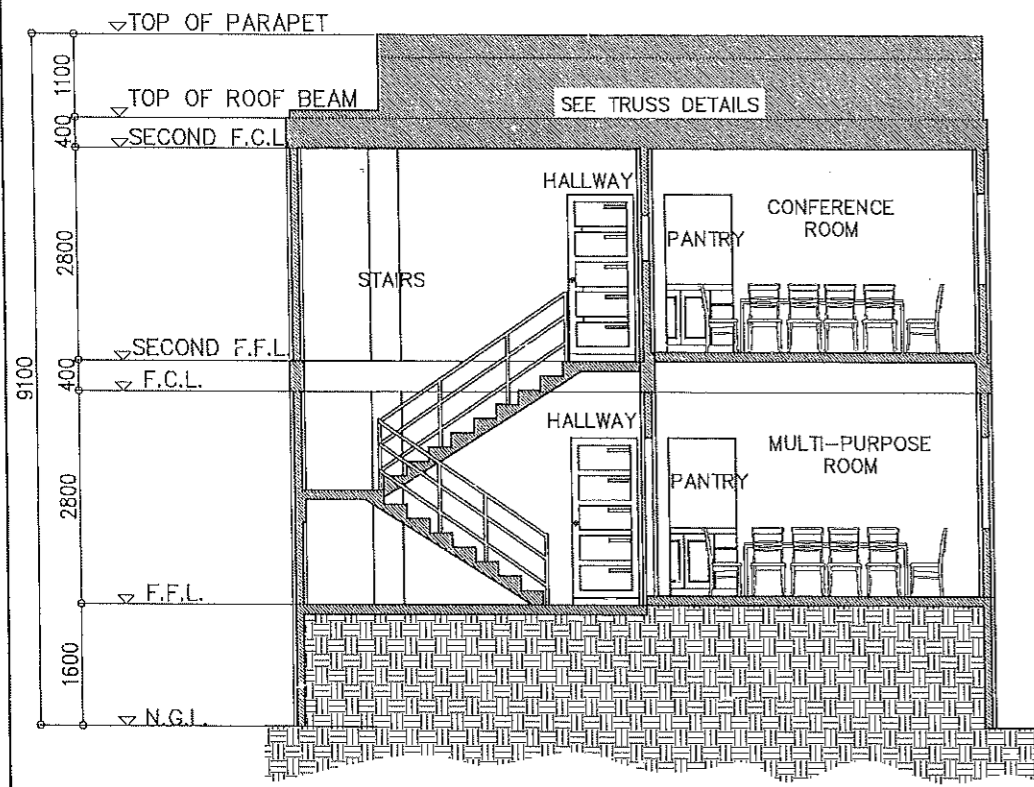
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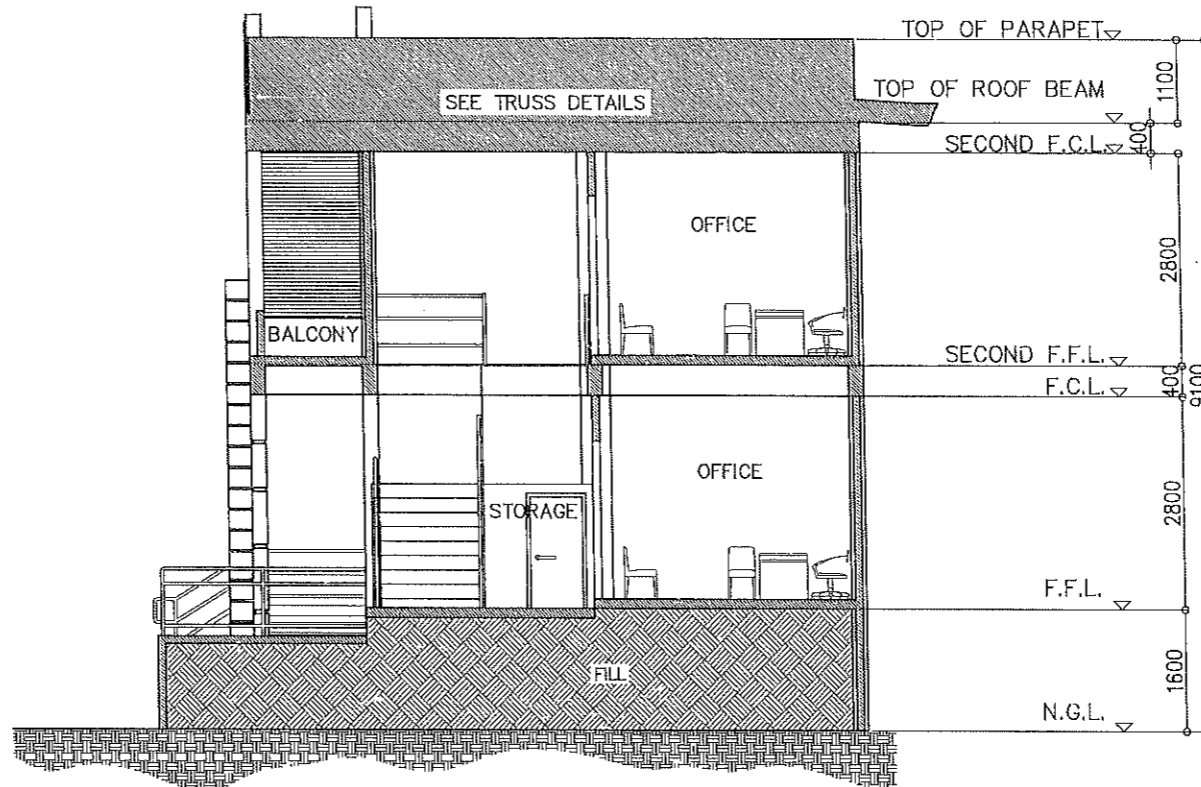
REAR ELEVATION

SCALE: 1:100 m

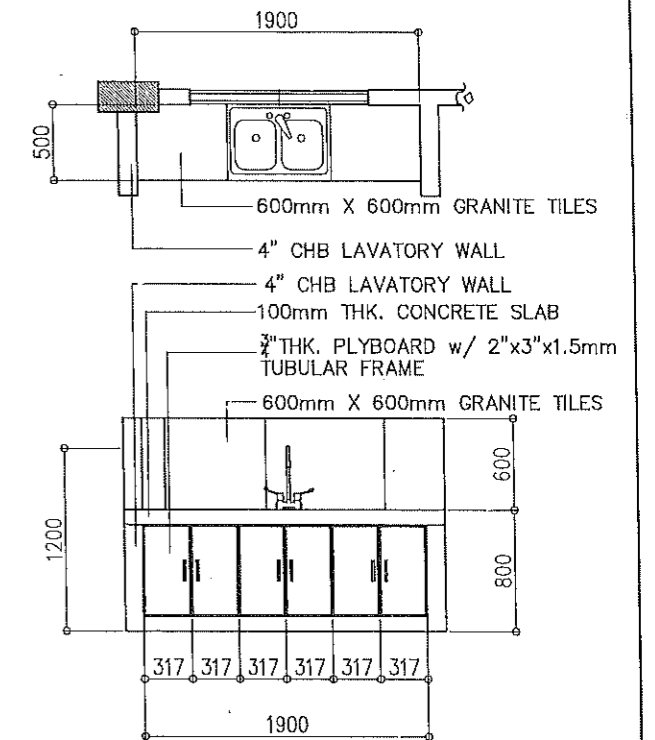
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:	
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	LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	CAD BY: R. GANIA JR.							ARCHITECTURAL	3/14



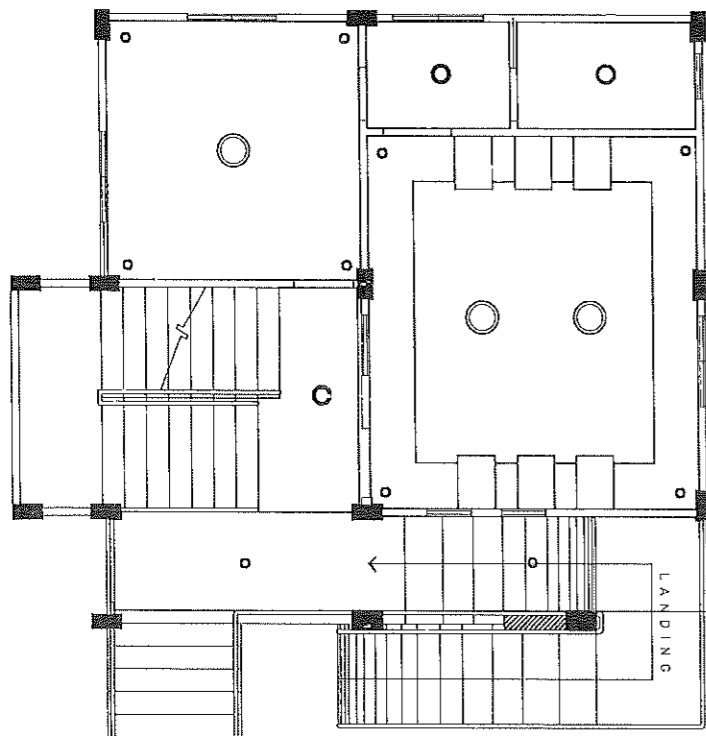
SECTION THRU "B-B"
SCALE: 1:100 MTS.



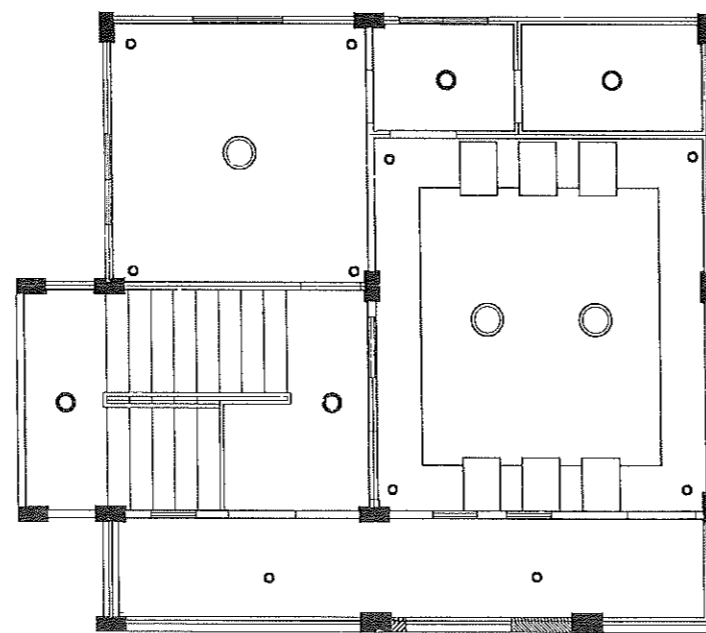
SECTION THRU "A-A"
SCALE: 1:100 m



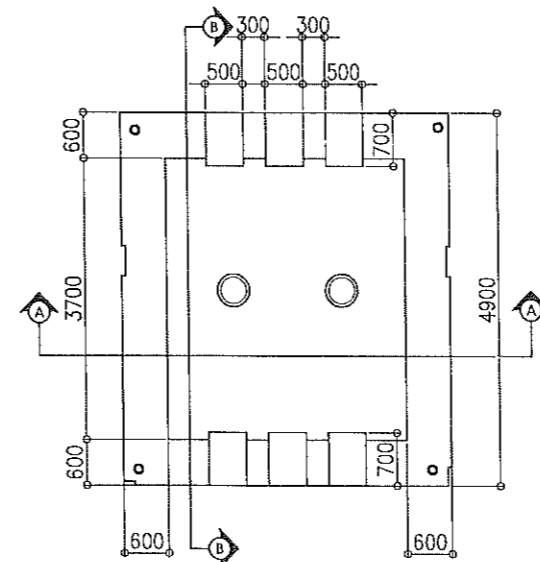
DETAIL OF LAVATORY COUNTER
SCALE: 1:50 m



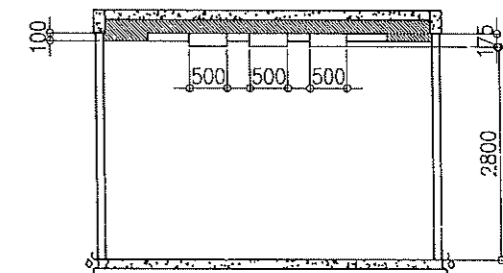
**GROUND FLOOR
REFLECTED CEILING PLAN**
SCALE: 1:100 m



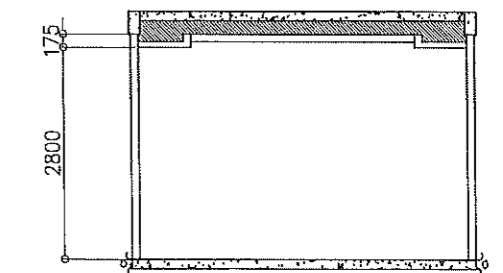
**SECOND FLOOR
REFLECTED CEILING PLAN**
SCALE: 1:100 m



REFLECTED CEILING PLAN
SCALE: 1:100 m

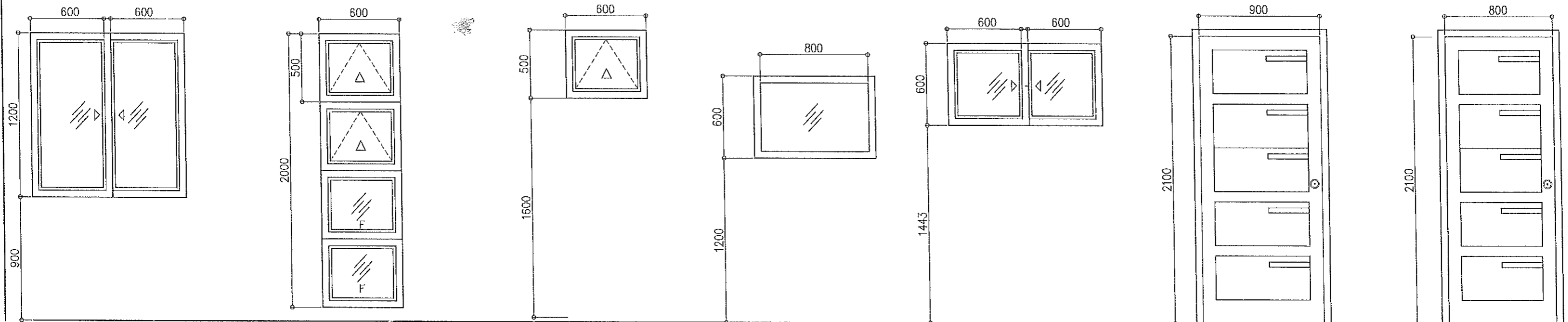


SECTION THRU "A-A"
SCALE: 1:100 m

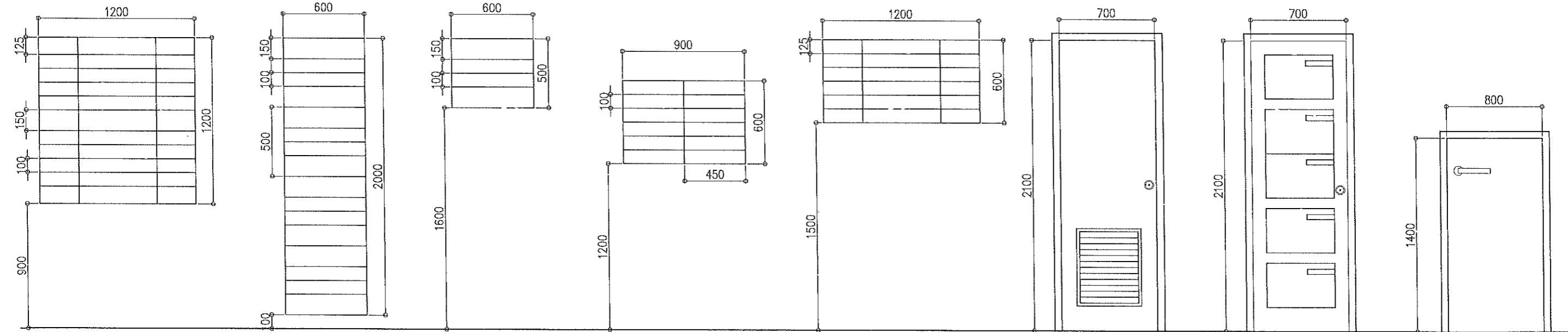


SECTION THRU "B-B"
SCALE: 1:100 m

	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	<i>Crystal Kaye M. Cunanan</i> CRYSTAL KAYE M. CUNANAN ENGINEER II	<i>Bryan Q. Alvarado</i> BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	<i>Wiliberto A. Manalili</i> WILIBERTO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	<i>Olimpio M. Pangan</i> OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE S. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN ARCHITECTURAL	A - 4 4/14
	LOCATION:	CAD BY:							
	SAN ROQUE, GUAGUA, PAMPANGA	R. GANIA JR.							



W1 1/4" THK GLASS PANELS ON ANALOC FRAME SLIDING WINDOWS W/ SCREEN (6 = SETS)
W2 1/4" THK GLASS PANELS ON ANALOC FRAME AWNING WINDOW W/ SCREEN (5 = SETS)
W3 1/4" THK GLASS PANELS ON ANALOC FRAME AWNING WINDOW W/ SCREEN (2 = SETS)
W4 1/4" THK GLASS PANELS ON ANALOC FRAME FIXED WINDOW (2 = SETS)
W5 1/4" THK GLASS PANELS ON ANALOC FRAME SLIDING WINDOWS W/ SCREEN (2 = SETS)
D1 SOLID PANEL DOOR W/ G.I. JAMB COMPLETE W/ HARDWARE & ACCESSORIES (4 = SETS)
D2 SOLID PANEL DOOR W/ G.I. JAMB COMPLETE W/ HARDWARE & ACCESSORIES (2 = SETS)

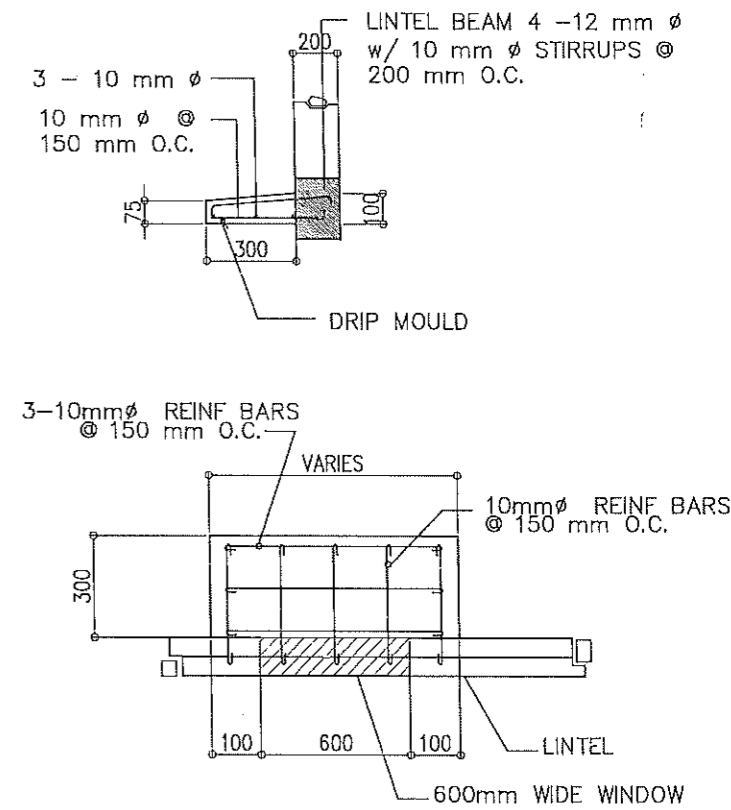
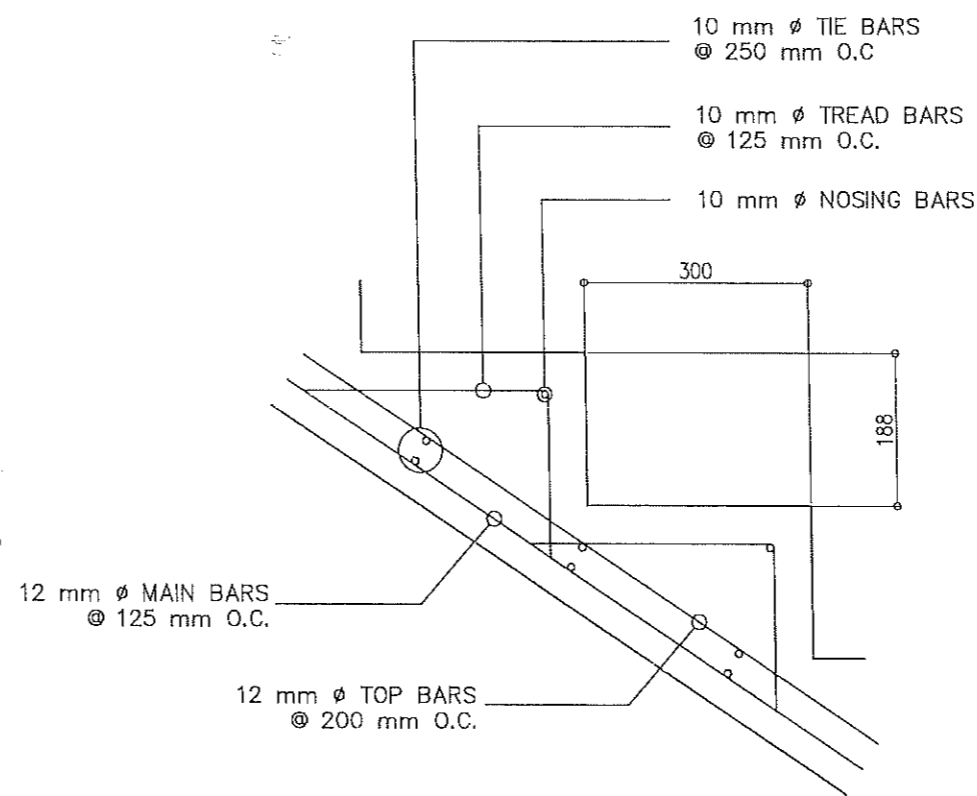
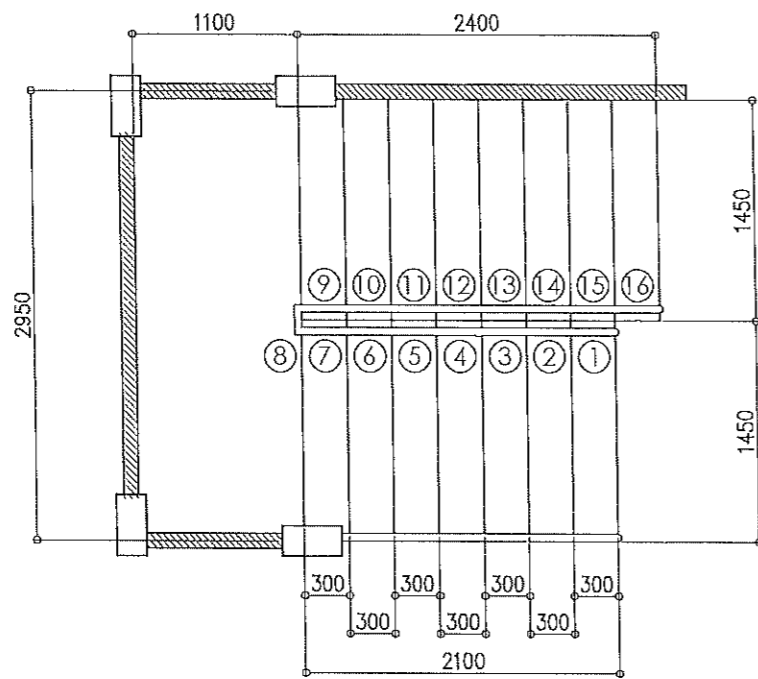


G1 12mm SQUARE BARS FOR SECURITY GRILLES (6 = SETS)
G2 12mm SQUARE BARS FOR SECURITY GRILLES (5 = SETS)
G3 12mm SQUARE BARS FOR SECURITY GRILLES (2 = SETS)
G4 12mm SQUARE BARS FOR SECURITY GRILLES (2 = SETS)
G5 12mm SQUARE BARS FOR SECURITY GRILLES (2 = SETS)
D3 FLUSH DOOR WITH LOUVERS DOOR AND G.I. JAMB COMPLETE W/HARDWARE & ACCESSORIES (2 = SETS)
D4 SOLID PANEL DOOR W/G.I. JAMB COMPLETE W/HARDWARE & ACCESSORIES (2 = SETS)
D5 FLUSH DOOR W/ G.I. JAMB COMPLETE W/ HARDWARE & ACCESSORIES (1 = SET)

SCHEDULE OF DOORS AND WINDOWS

SCALE: 1:25 m

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	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 ROQUE, GUAGUA, PAMPANGA	CRYSTAL KAYE M. CUNANAN ENGINEER II CAD BY: R. GANIA JR.	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALLIL 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	AS SHOWN ARCHITECTURAL	A - 5 5/14

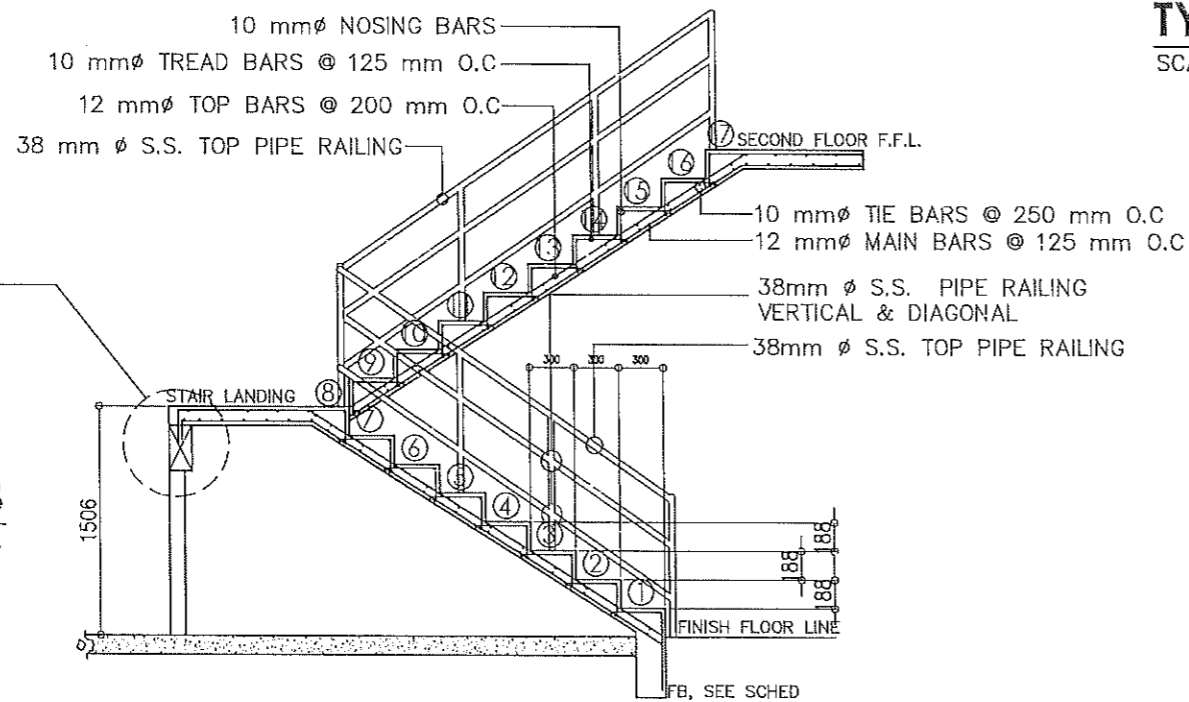


TYPICAL RISER DETAIL

SCALE: 1:10 MTS.

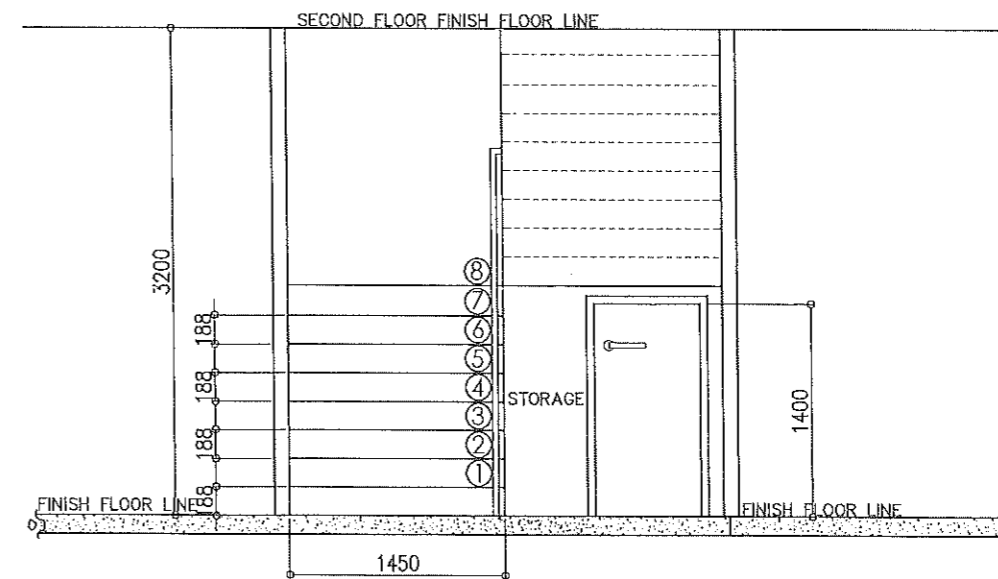
CANOPY DETAIL

SCALE: 1:25 MTS.



DETAIL OF STB

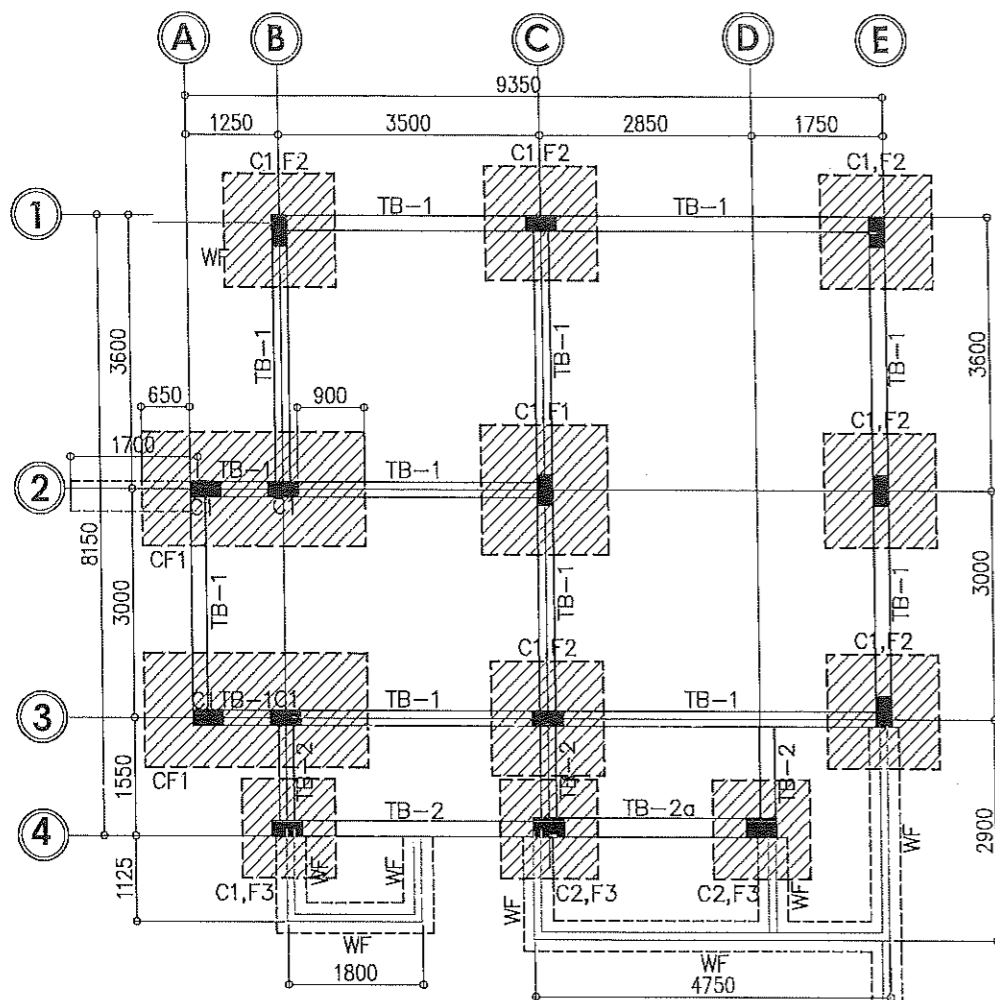
SCALE: 1:50 MTS.



DETAIL OF STAIRS

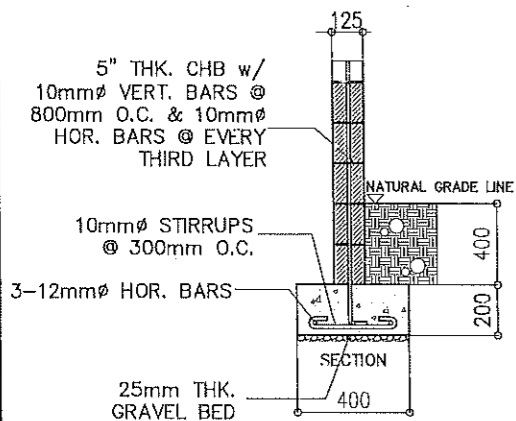
SCALE: 1:50 MTS.

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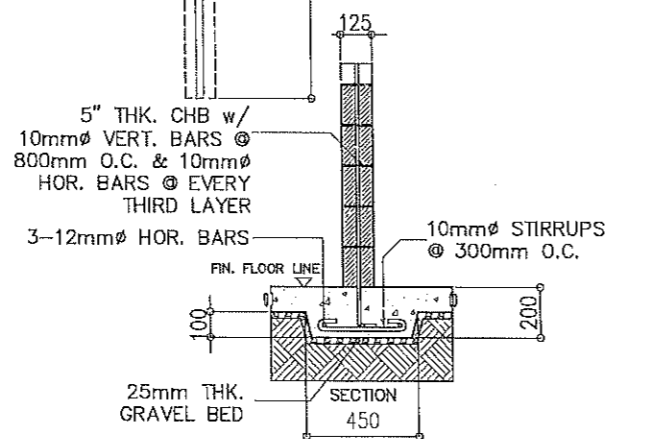
FOUNDATION PLAN

SCALE: 1:100 m



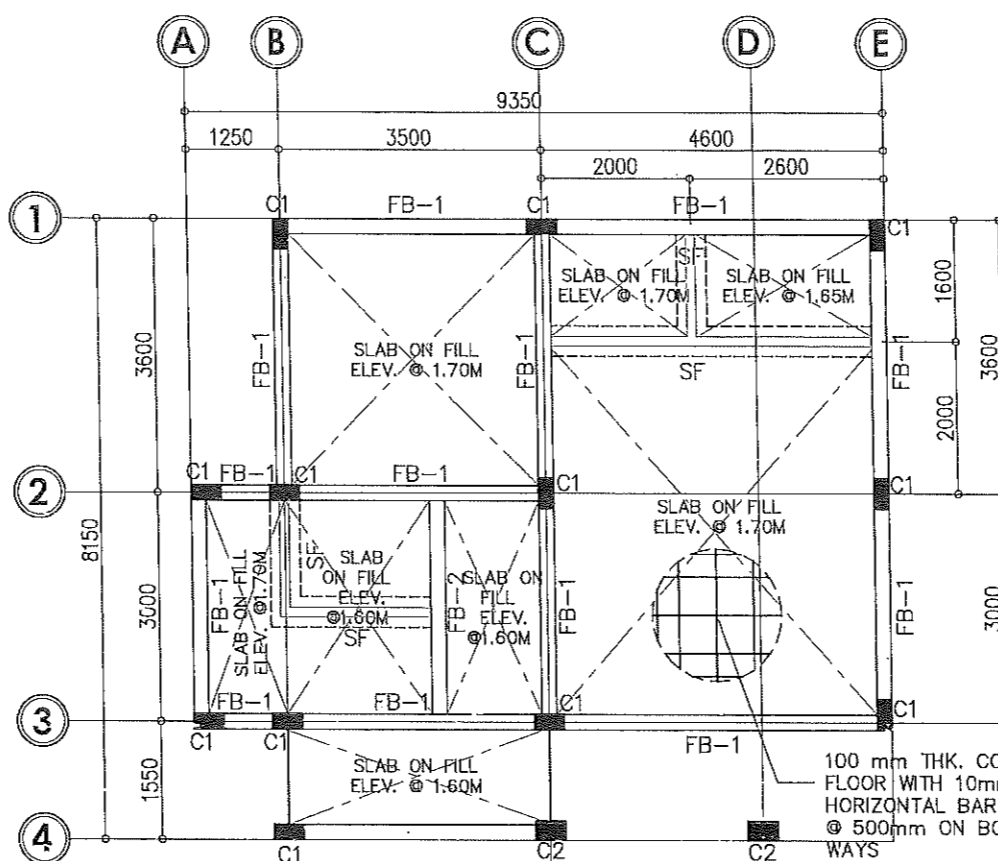
WALL FOOTING DETAIL (WF)

SCALE: 1:30 m



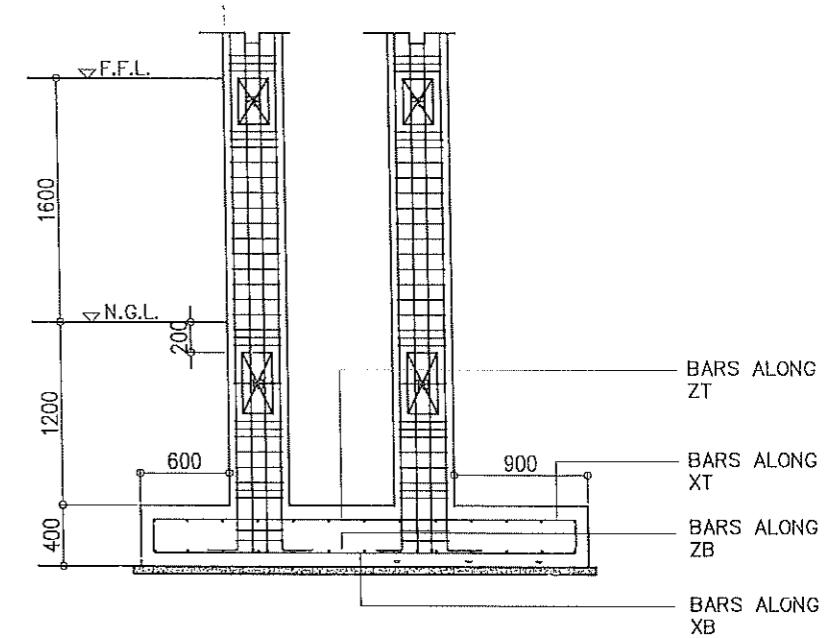
SLAB FOOTING DETAIL (SF)

SCALE: 1:30 m



FLOOR BEAM PLAN

SCALE: 1:100 m

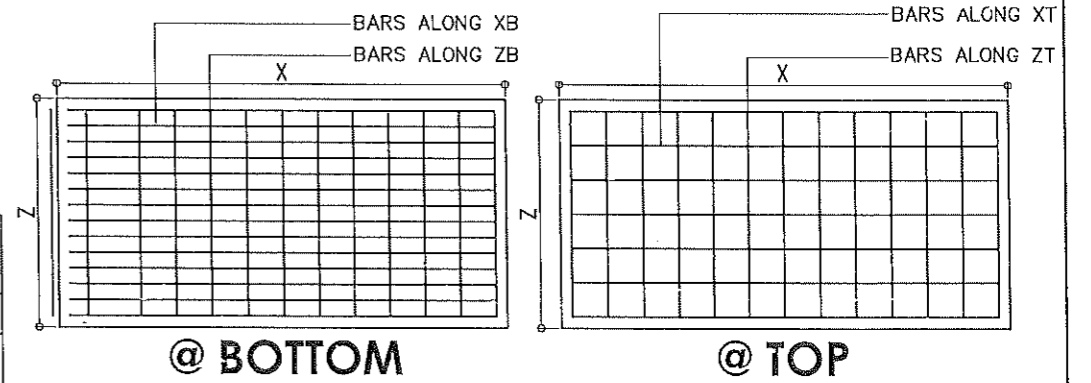


COMBINED FOOTING 1 (CF1) DETAILS

SCALE: 1:50 m

SCHEDULE OF COLUMNS

	C1 = 12 UNITS	C2 = 2 UNITS
SECOND FLOOR BEAM TO ROOF BEAM	<p>MAIN BARS : 8-16 mm # TIE BARS : 10 mm # 3 @ 50 mm, 5 @ 100 mm, & REST @ 200 mm</p>	<p>MAIN BARS : 8-16 mm # TIE BARS : 10 mm # 3 @ 50 mm, 5 @ 100 mm, & REST @ 200 mm</p>
FOUNDATION TO SECOND FLOOR BEAM	<p>MAIN BARS : 8-16 mm # TIE BARS : 10 mm # 3 @ 50 mm, 5 @ 100 mm, & REST @ 200 mm</p>	<p>MAIN BARS : 8-16 mm # TIE BARS : 10 mm # 3 @ 50 mm, 5 @ 100 mm, & REST @ 200 mm</p>

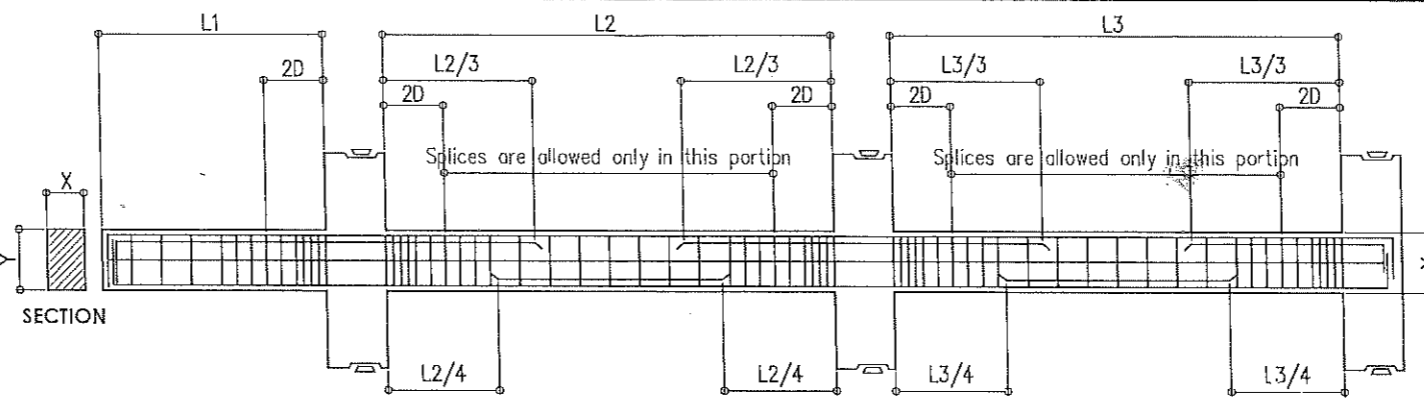


SCHEDULE OF FOOTINGS

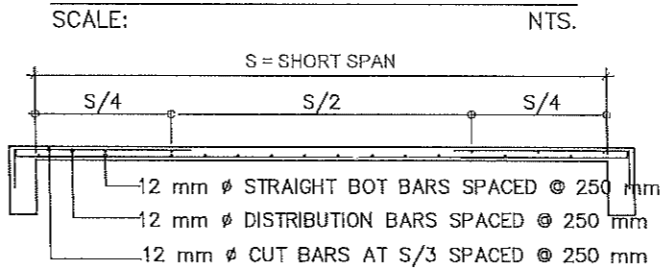
FOOTING MARK	DIMENSION(mm)			DEPTH	REINFORCEMENT (GR.40)				
	x	y	z		TOP		BOTTOM		
					BARS # (mm)	NUMBER ALONG XT	NUMBER ALONG ZT	NUMBER ALONG XB	NUMBER ALONG ZB
F1	1700	1700	300	1500	16			9	9
F2	1500	1500	300	1500	16			7	7
F3	1300	1300	300	1500	16			6	6
CF1	3000	1500	400	1500	16	7	13	14	13

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SCHEDULE OF BEAMS									
BEAM MARK	SIZE		MAIN REINFORCEMENTS (GR.40)				STIRRUPS		
	X(mm)	Y(mm)	LEFT SUPPORT		MIDSPAN			RIGHT SUPPORT	
			TOP BAR	SECTION	TOP BAR	SECTION	TOP BAR	SECTION	
TB-1	200	400	3-16mm Ø 2-12mm Ø 2-16mm Ø		3-16mm Ø 2-12mm Ø 2-16mm Ø		3-16mm Ø 2-12mm Ø 2-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
TB-2 TB-2a	200	300	3-16mm Ø 3-16mm Ø		3-16mm Ø 3-16mm Ø		3-16mm Ø 3-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
FB-1	200	400	5-16mm Ø 3-16mm Ø		3-16mm Ø 3-16mm Ø		5-16mm Ø 3-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
FB-2	200	400	2-16mm Ø 2-16mm Ø		2-16mm Ø 3-16mm Ø		2-16mm Ø 2-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
B-1	200	500	5-16mm Ø 2-16mm Ø 2-16mm Ø		2-16mm Ø 2-16mm Ø 3-16mm Ø		5-16mm Ø 2-16mm Ø 2-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
B-2	200	400	5-16mm Ø 2-12mm Ø 2-16mm Ø		2-16mm Ø 2-12mm Ø 3-16mm Ø		5-16mm Ø 2-12mm Ø 2-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
B-3	200	400	2-16mm Ø 2-16mm Ø		2-16mm Ø 4-16mm Ø		2-16mm Ø 2-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
B-4	200	400	3-16mm Ø 3-16mm Ø		3-16mm Ø 3-16mm Ø		3-16mm Ø 3-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
B-5	200	400	3-16mm Ø 2-16mm Ø		2-16mm Ø 2-16mm Ø		3-16mm Ø 2-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
B-6	200	300	2-16mm Ø 2-16mm Ø		2-16mm Ø 2-16mm Ø		2-16mm Ø 2-16mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
RB1	200	400	4-12mm Ø 2-12mm Ø		2-12mm Ø 3-12mm Ø		4-12mm Ø 2-12mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
RB2	200	300	3-12mm Ø 2-12mm Ø		2-12mm Ø 3-12mm Ø		3-12mm Ø 2-12mm Ø		3 Ø 50 mm 5 Ø 100 mm & REST Ø 200 mm
CB1	200	400	5-16mm Ø 2-16mm Ø		5-16mm Ø 2-16mm Ø				3 Ø 50 mm 7 Ø 100 mm & REST Ø 200 mm
CB2	200	400	2-16mm Ø 2-12mm Ø 2-12mm Ø		2-16mm Ø 2-12mm Ø				3 Ø 50 mm 7 Ø 100 mm & REST Ø 200 mm

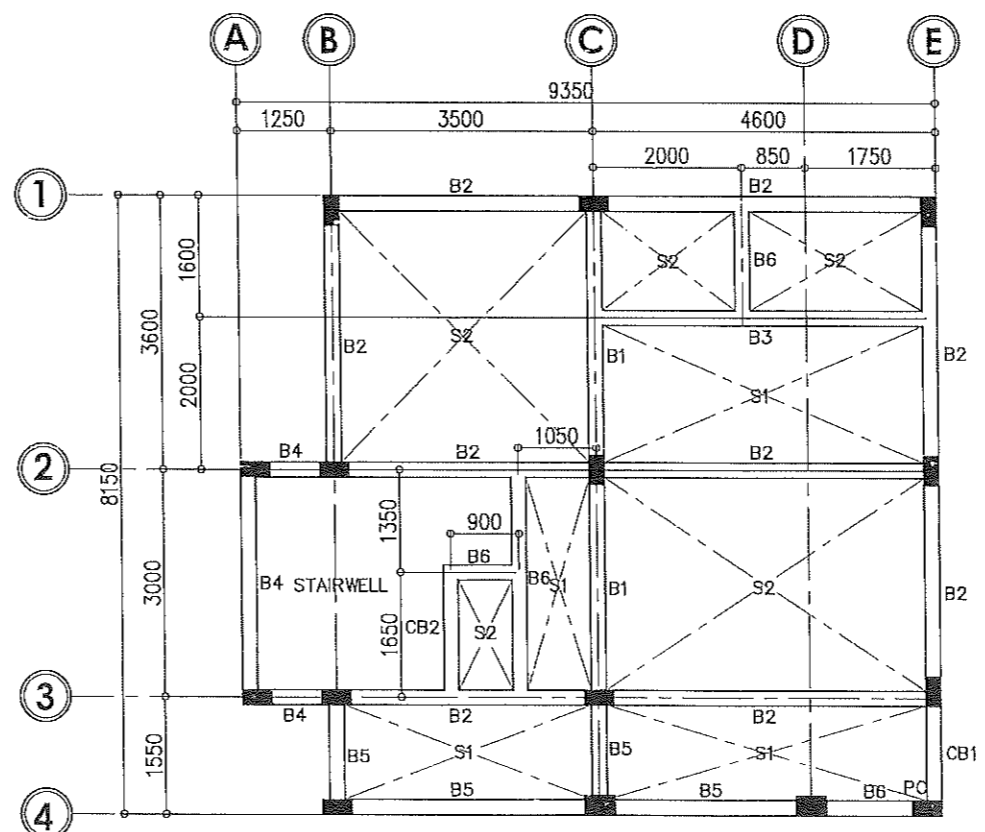


TYPICAL BEAM SECTION
SCALE: NTS.

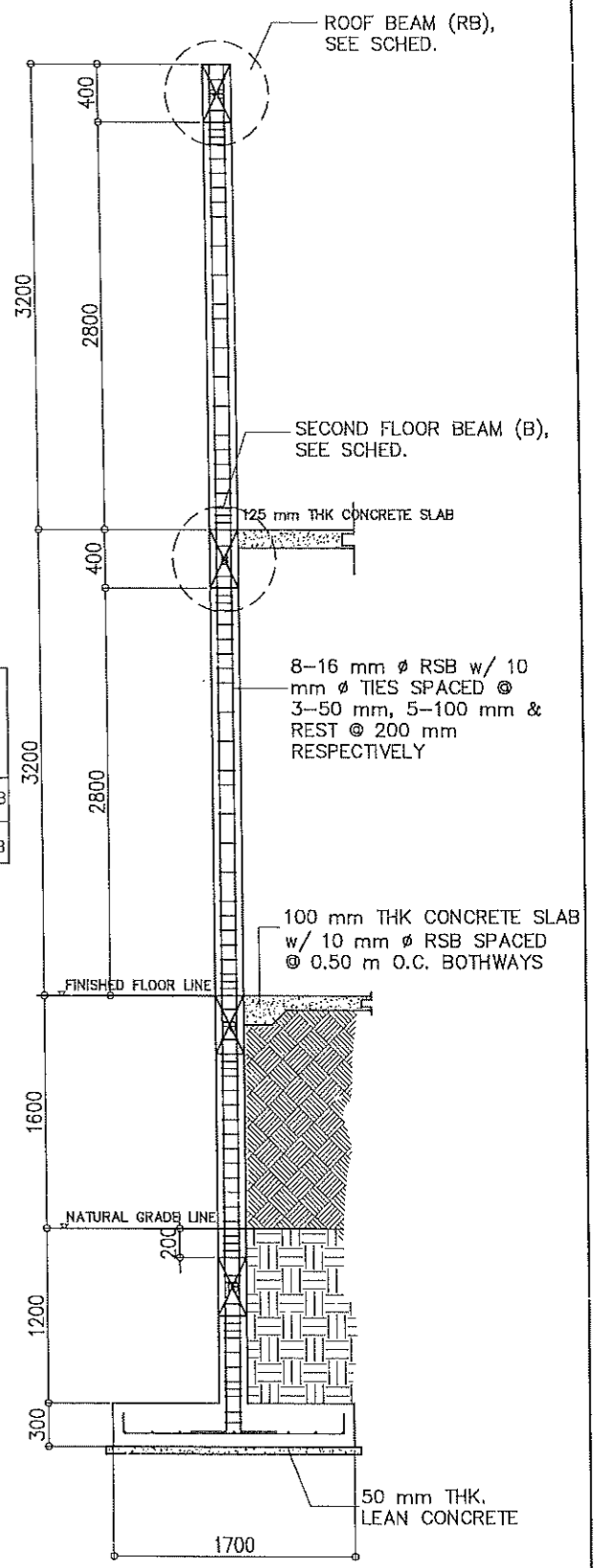


SLAB SCHEDULE

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT				TOP REINFORCEMENT					REMARKS
		ALONG SHORT SPAN		ALONG LONG SPAN		ALONG LONG SUPPORT		ALONG SHORT SUPPORT		DISTRIBUTION	
		FULL LENGTH	CURTAILED	FULL LENGTH	CURTAILED	FULL LENGTH	@ L/3	FULL LENGTH	@ S/3	FULL LENGTH	
S-2	125	#12 @ 250 C/C	---	#12 @ 250 C/C	---	---	#12 @ 250 C/C	---	#12 @ 250 C/C	#12 @ 250 C/C	TWO WAY SLAB
S-1	125	#12 @ 250 C/C	---	#12 @ 250 C/C	---	---	---	---	#12 @ 250 C/C	#12 @ 250 C/C	ONE WAY SLAB

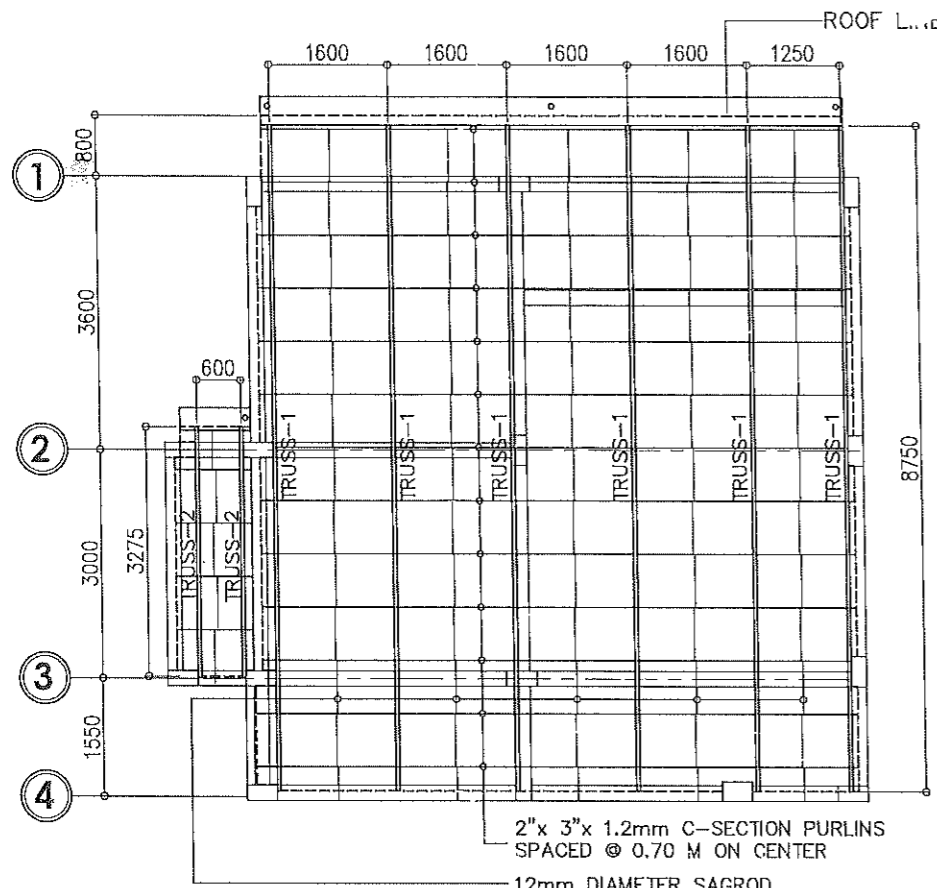


SECOND FLOOR FRAMING PLAN
SCALE: 1:100 m

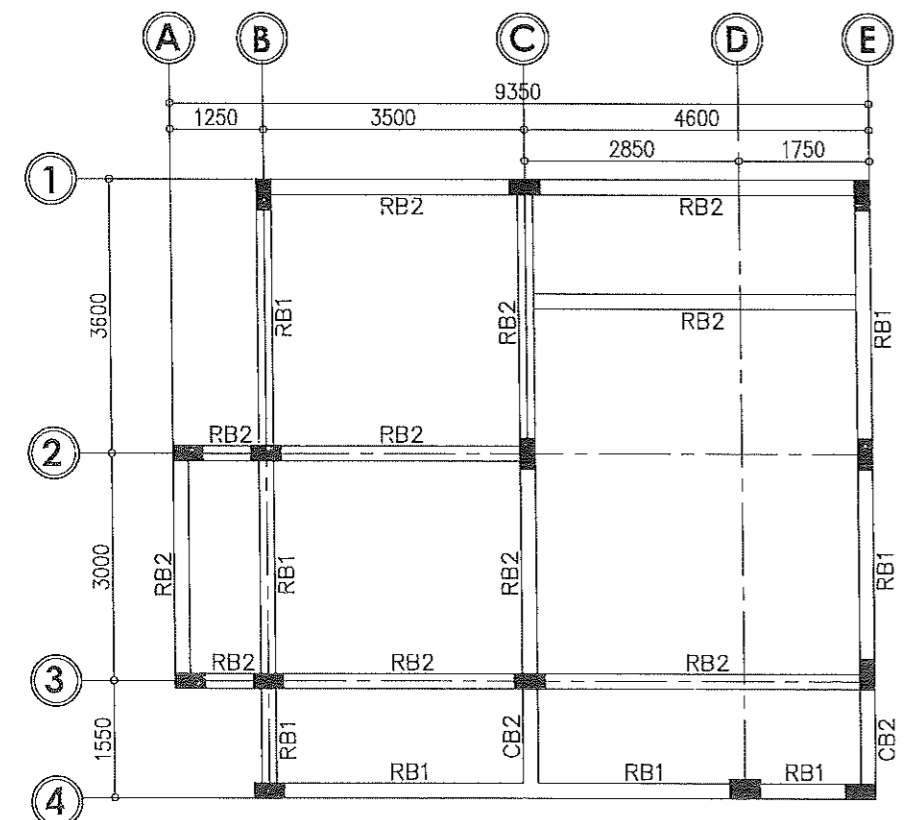


FULL BAY SECTION
SCALE: 1:50 m

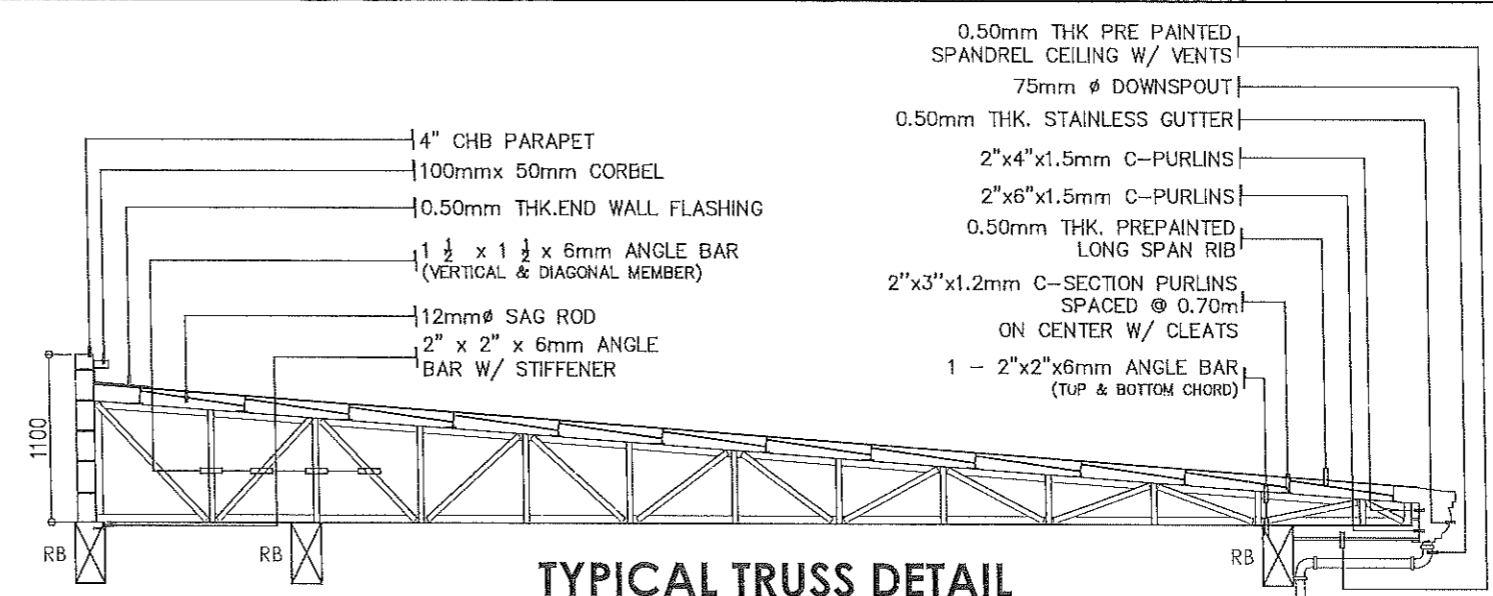
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF TWO (2) - STOREY MULTI-PURPOSE BUILDING	CRYSTAL KAYE M. CUNANAN ENGINEER II	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	OLIMPO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN STRUCTURAL	S - 2 8/14



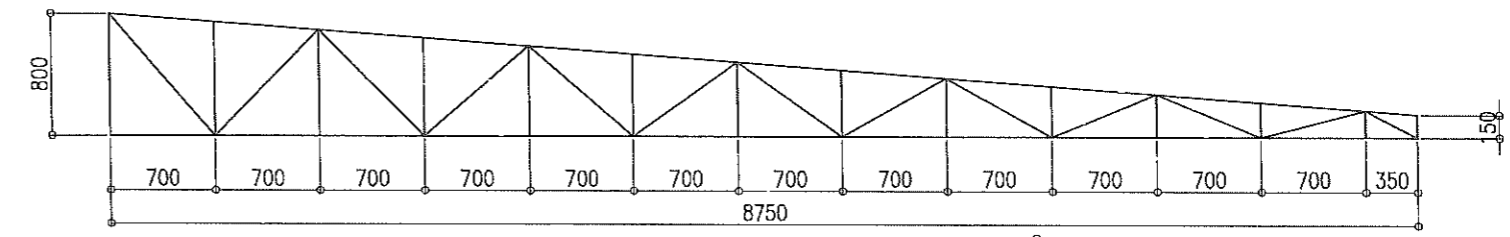
ROOF FRAMING PLAN
SCALE: 1:100 m



ROOF BEAM PLAN
SCALE: 1:100 MTS.



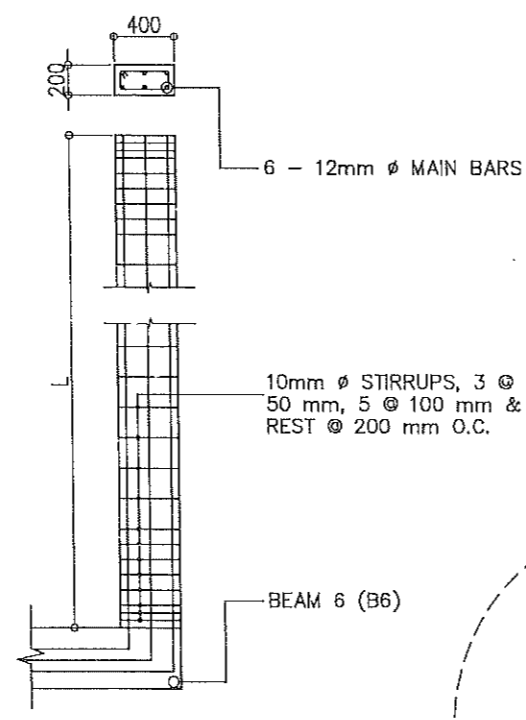
TYPICAL TRUSS DETAIL
SCALE: 1:50 m



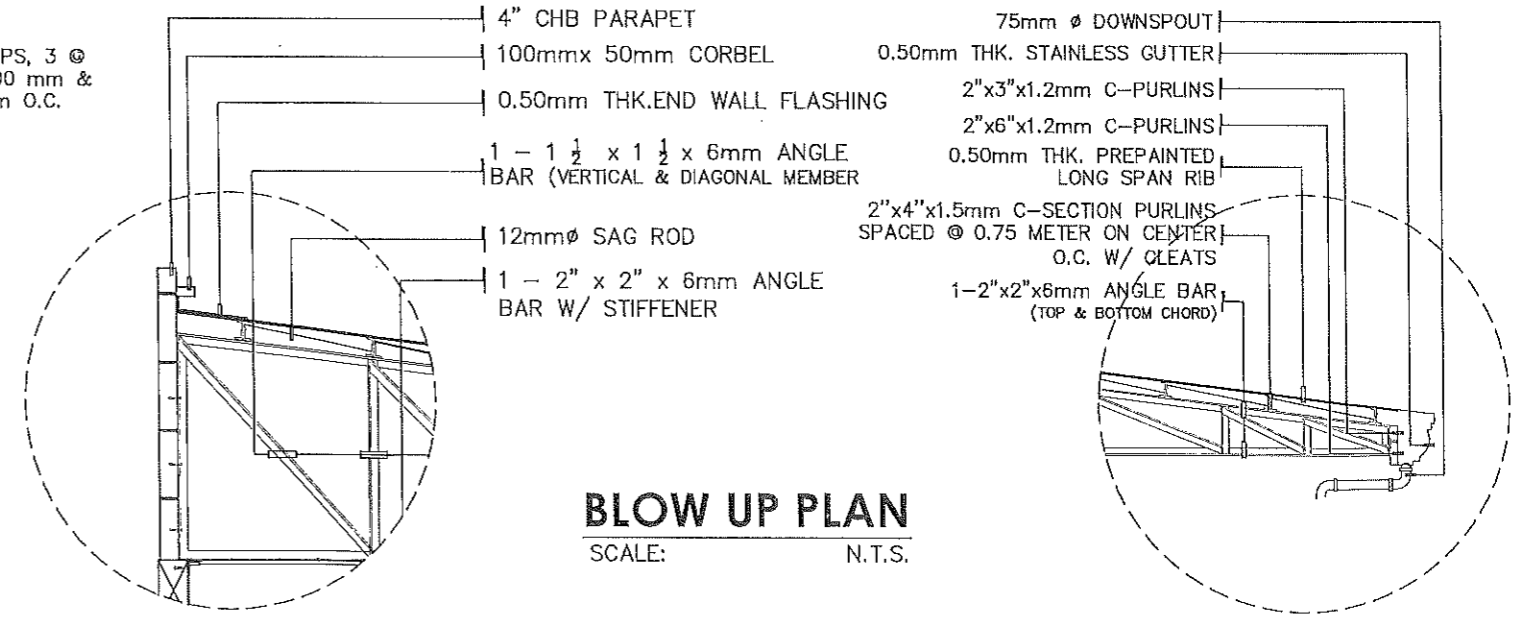
TRUSS-1
6 UNITS

TRUSS-2
2 UNITS

TRUSS DIAGRAM
SCALE: 1:50 m



DET. OF PLANTED COLUMN (PC)
SCALE: 1:50 m



BLOW UP PLAN
SCALE: N.T.S.

	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	 CRYSTAL KAYE M. CUNANAN ENGINEER II	 BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	 WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	 OLIMPIO M. PANGAN PROVINCIAL ENGINEER	 ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR	AS SHOWN	S - 3
		LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	CAD BY: R. GANIA JR.						STRUCTURAL	9/14

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 / 276 MPa
 b. 10 mm ϕ & BELOW = GR. 40 / 276 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 :
- CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS :
 - FOOTINGS, FOOTING-TIE BEAMS 75 mm
 - BEAMS & COLUMNS 40 mm
 - SUSPENDED SLAB 20 mm
 - 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

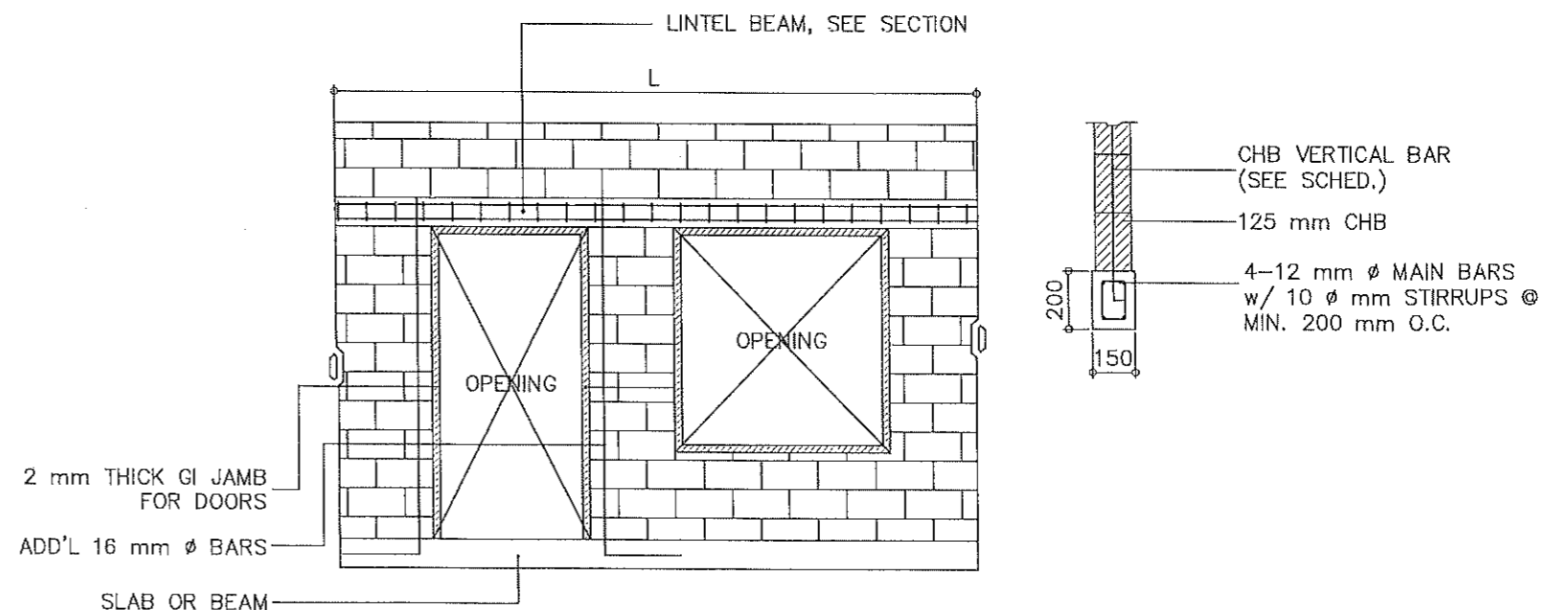
D. CONCRETE HOLLOW BLOCKS (CHB)

- 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.

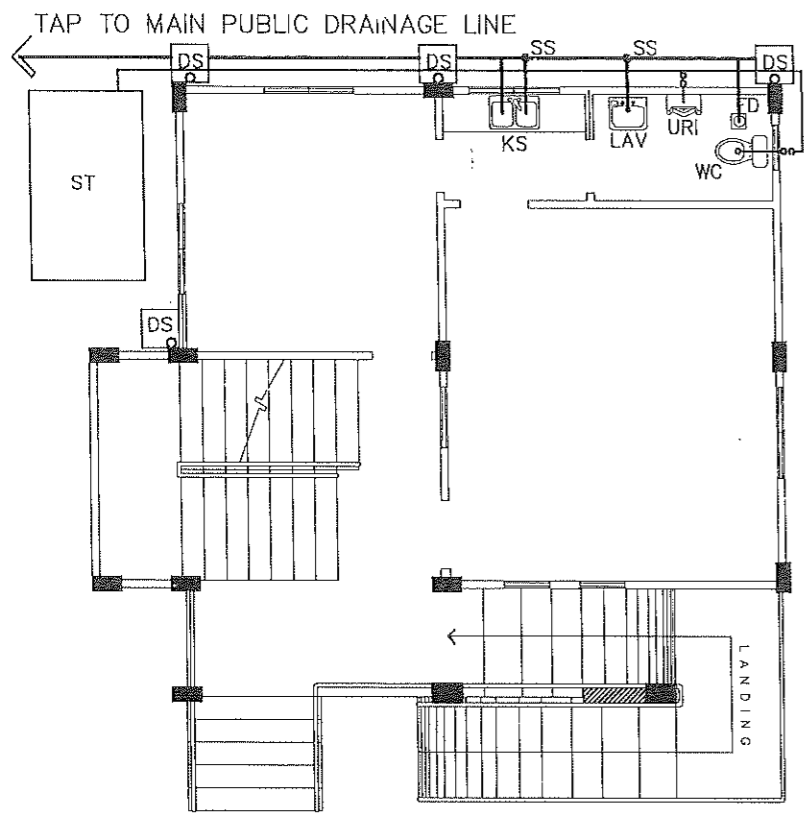
E. CONSTRUCTION JOINTS

- 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.



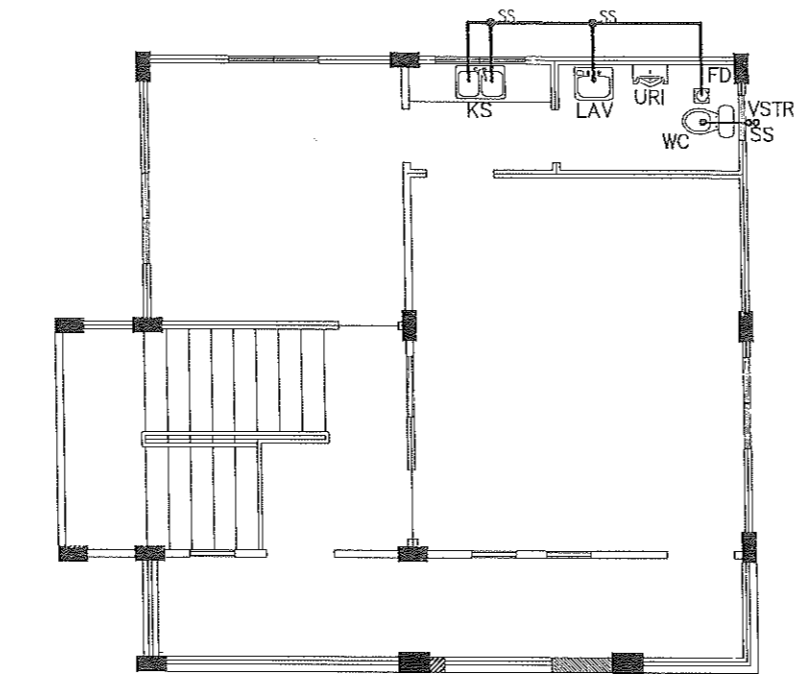
TYPICAL DOOR & WINDOW OPENING
(LINTEL BEAM) DETAIL

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	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF TWO (2) - STOREY MULYI-PURPOSE BUILDING LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	 CRYSTAL KAYE M. CUNANAN ENGINEER II CAD BY: R. GANIA JR.	 BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	 WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	 OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE ATTORNEY FOR THE GOVERNOR ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN STRUCTURAL	S - 4 10/14



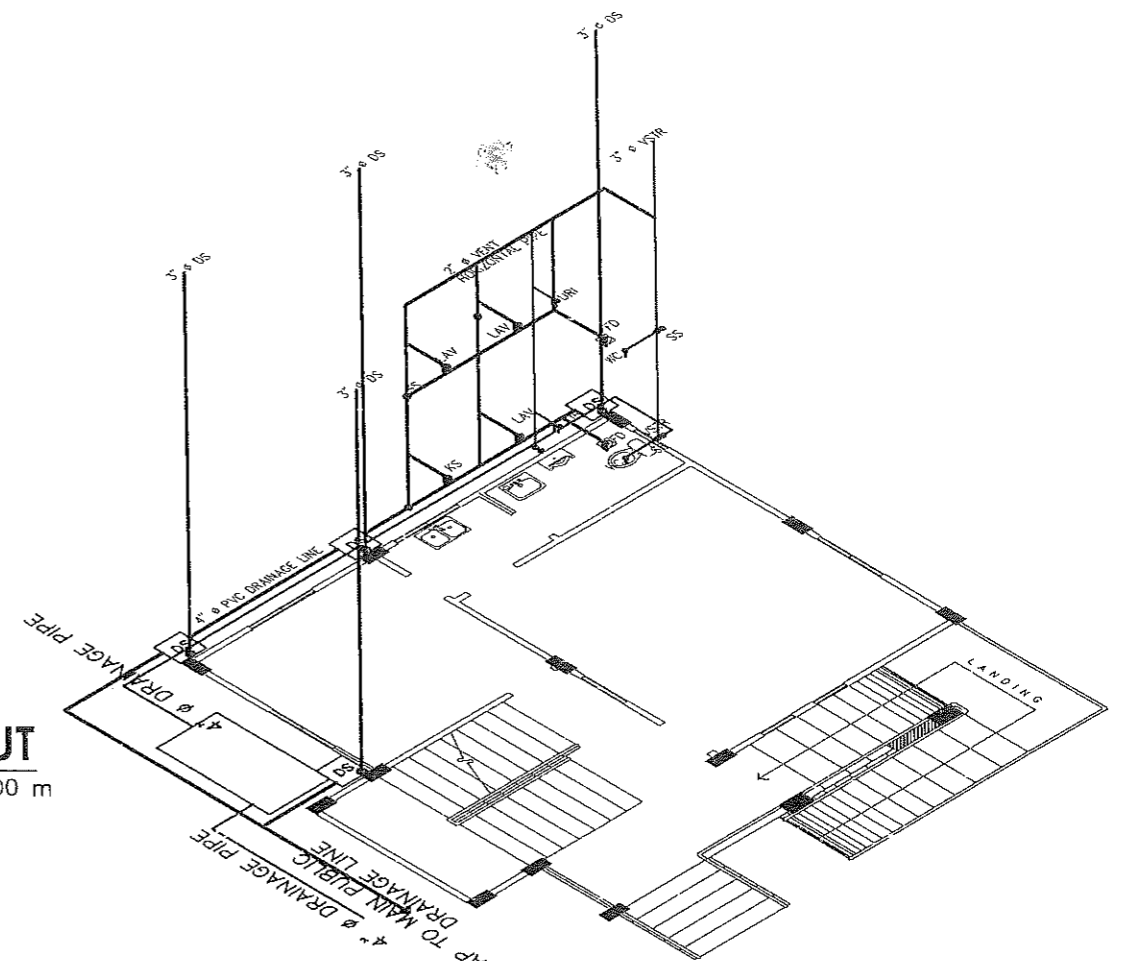
GROUND FLOOR SEWER LINE LAY-OUT

SCALE: 1:100 m



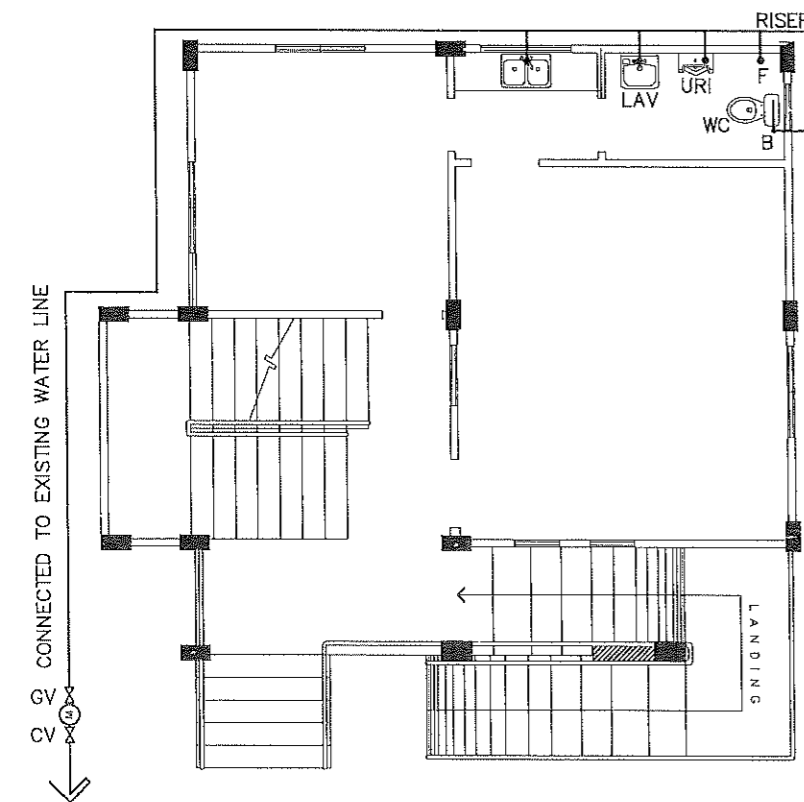
SECOND FLOOR SEWER LINE LAY-OUT

SCALE: 1:100 m



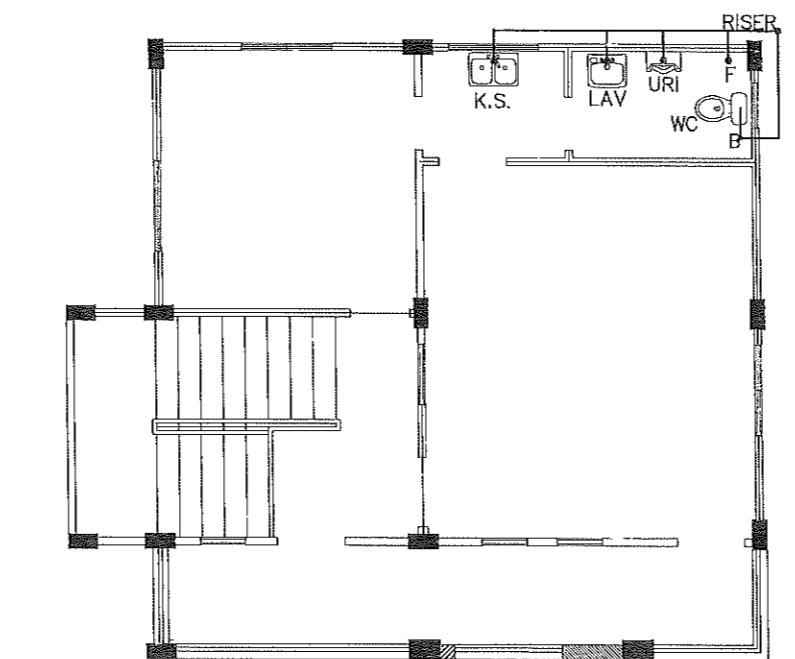
**ISOMETRIC SEWER/
DRAINAGE LINE LAY-OUT**

SCALE: 1:100 MTS.



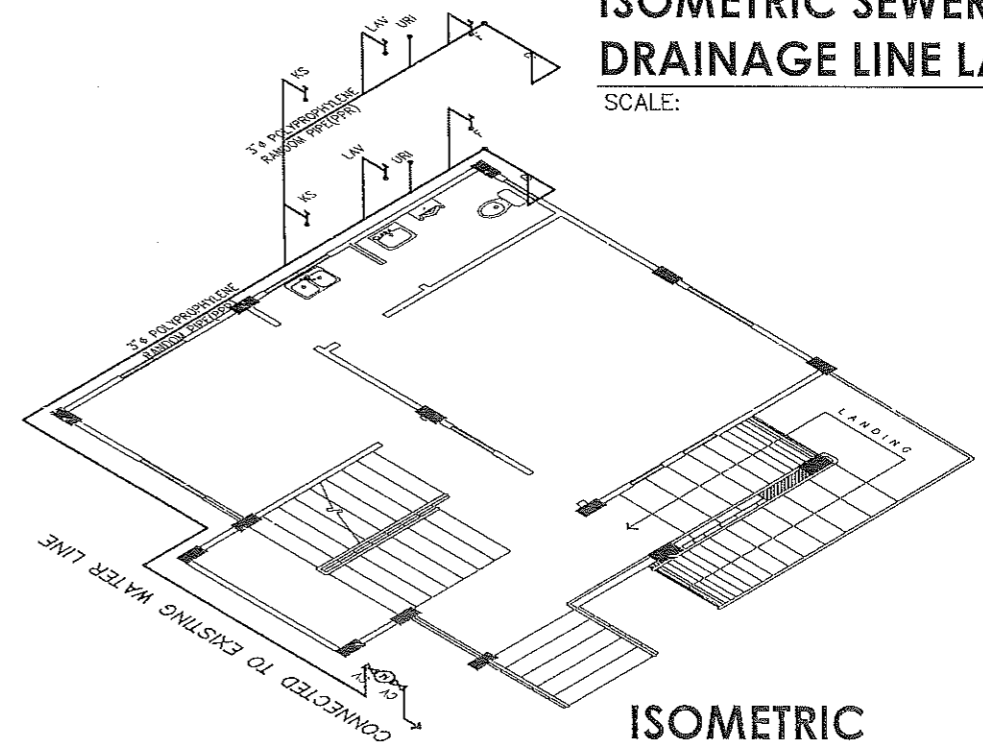
GROUND FLOOR WATER LINE LAY-OUT

SCALE: 1:100 m



SECOND FLOOR WATER LINE LAY-OUT

SCALE: 1:100 m



**ISOMETRIC
WATER LINE LAY-OUT**

SCALE: 1:100 MTS.

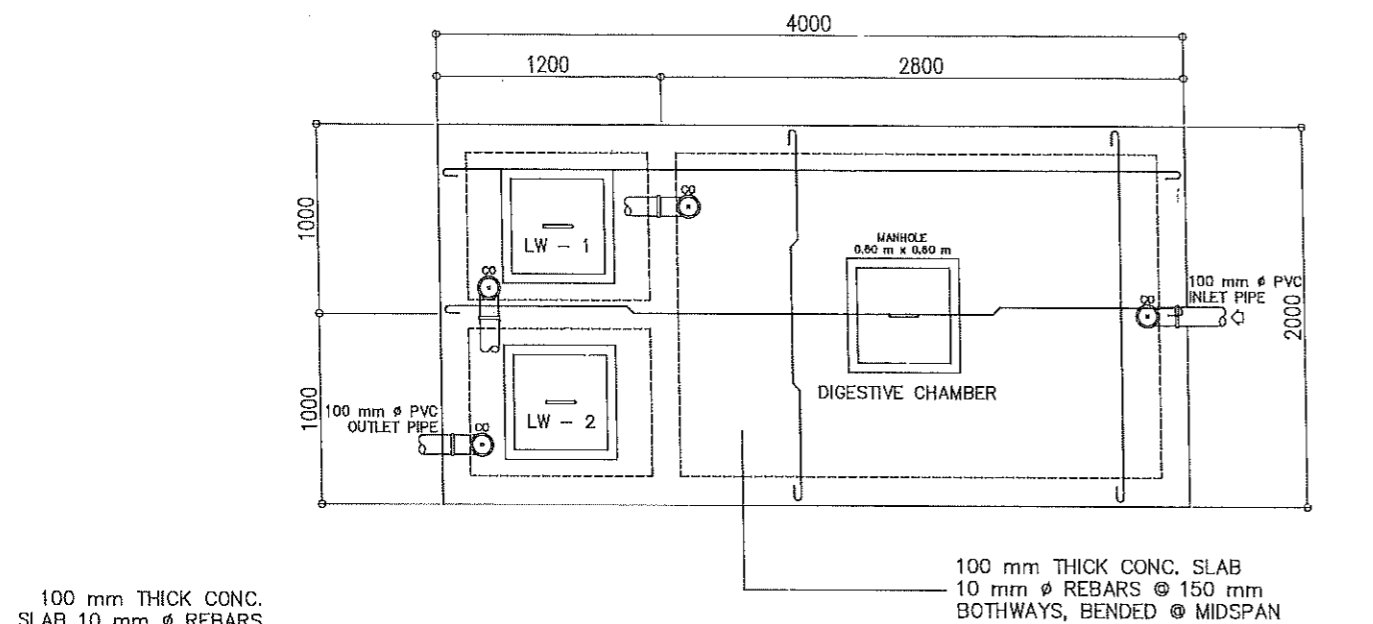
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GENERAL NOTES:

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

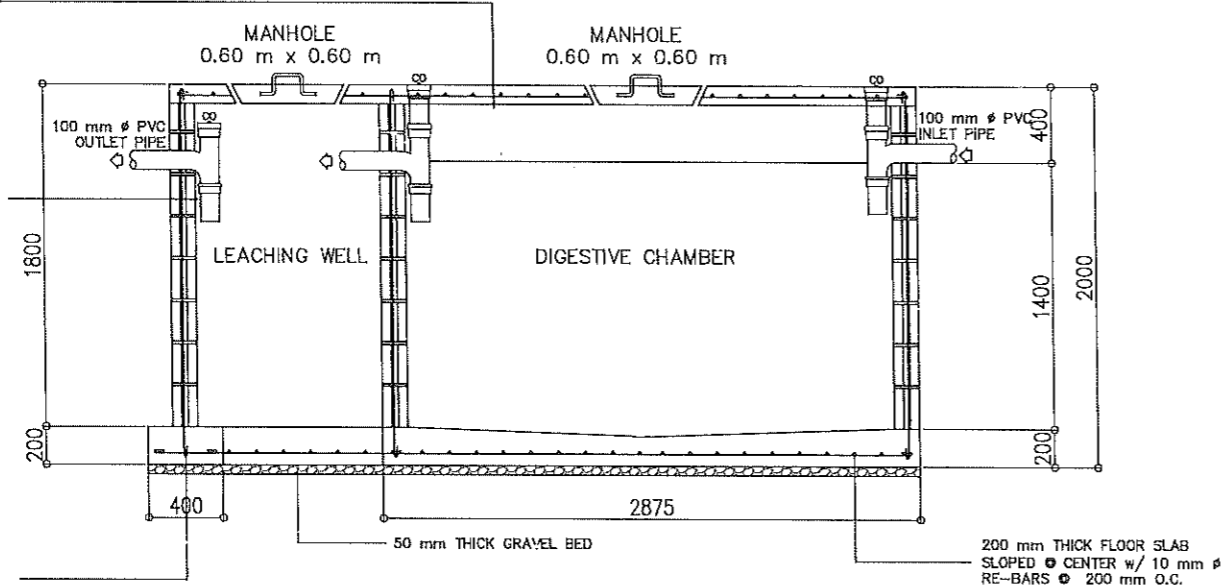
MAIN WATER LINE/RISER	-	32 mm Ø PPR PIPE
BRANCH WATER LINE	-	20 mm Ø PPR PIPE
- GRADES OF HORIZONTAL PIPINGS :
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT & AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
- CHANGE DIRECTION :
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND, SIXTH-EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE 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.



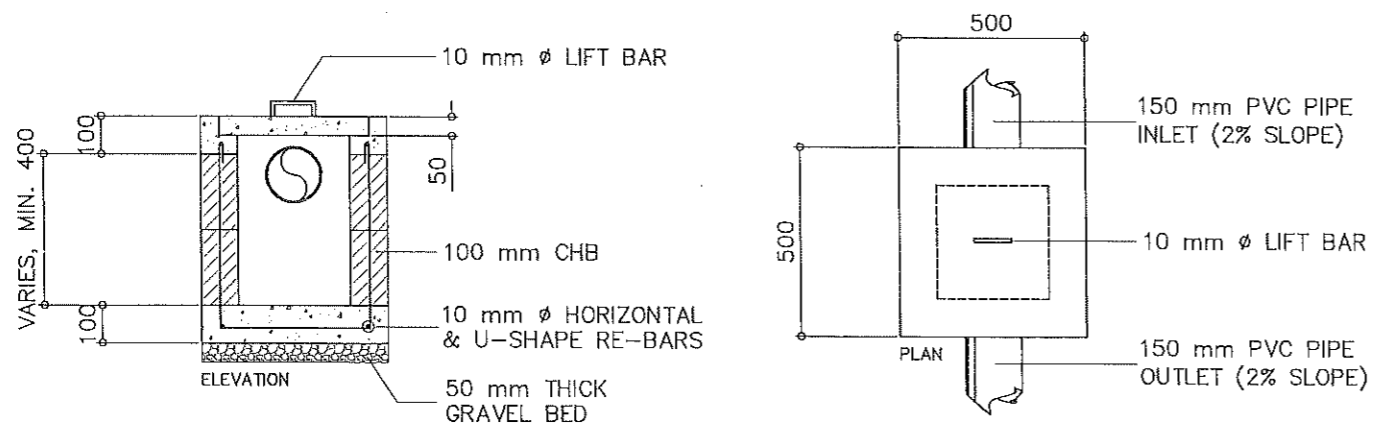
100 mm THICK CONC. SLAB 10 mm Ø REBARS @ 150 mm BOTHWAYS, BENDED @ MIDSPAN

125 mm CHB WALL w/ 10 mm Ø HORIZONTAL & VERTICAL RE-BARS SPACED @ 600 mm PLASTERED ON 1-SIDE

400 mm x 200 mm WALL FOOTING w/ 3 - 10 mm Ø MAIN BARS & 10 mm Ø STIRRUPS @ 300 mm O.C



DET. OF SEPTIC VAULT
SCALE: 1:40 m

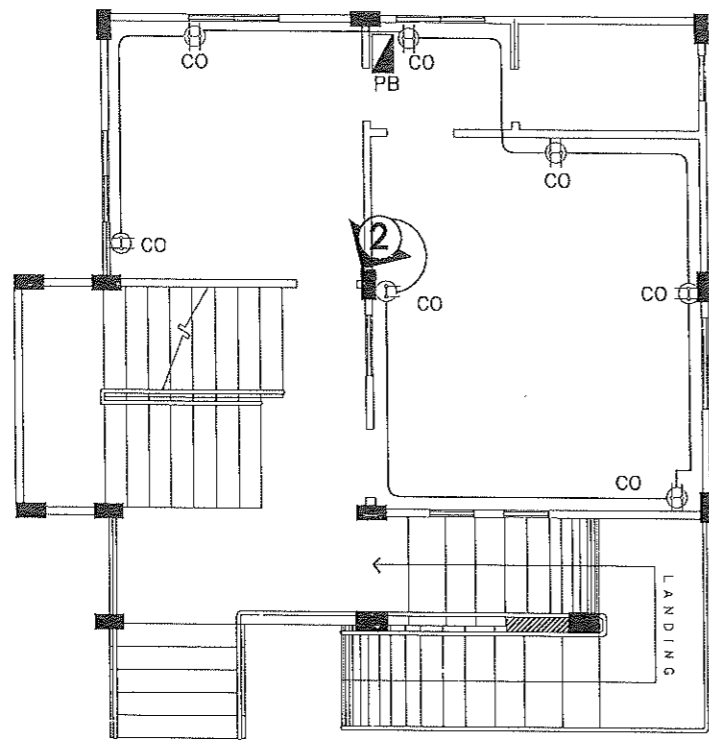


DET. OF CATCH BASINS
SCALE: 1:20 MTS.

LEGEND & SYMBOLS

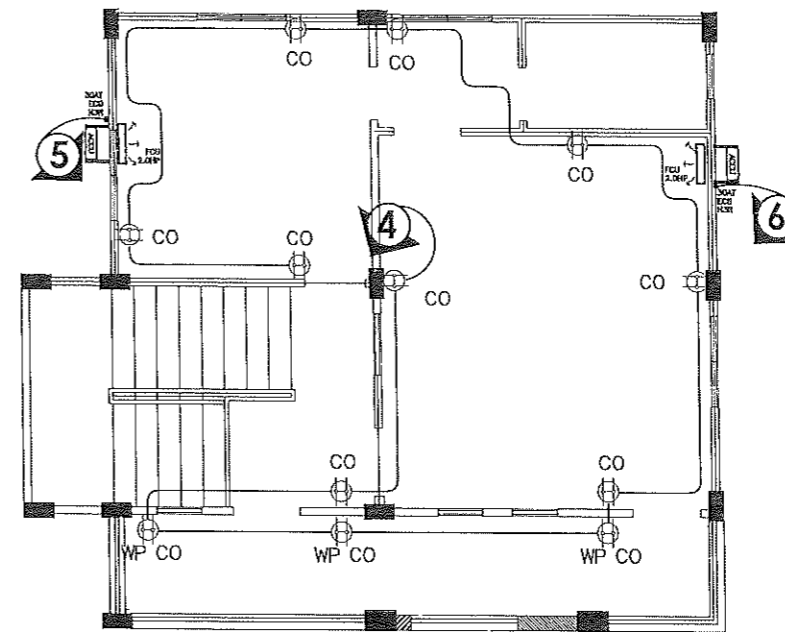
- | | |
|----------------|------------------------------|
| SHO - SHOWER | WC - WATER CLOSET |
| FAU - FAUCET | FD - FLOOR DRAIN |
| URI - URINAL | SD - SINK DRAIN |
| DS - DOWNSPOUT | RD - ROOD DRAIN |
| CO - CLEAN-OUT | LAV - LAVATORY WITH PEDESTAL |

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	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 ROQUE, GUAGUA, PAMPANGA	CRYSTAL KAYE M. CUNANAN ENGINEER II CAD BY: R. GANIA JR.	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALILI 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	AS SHOWN PLUMBING	P - 2 12/14



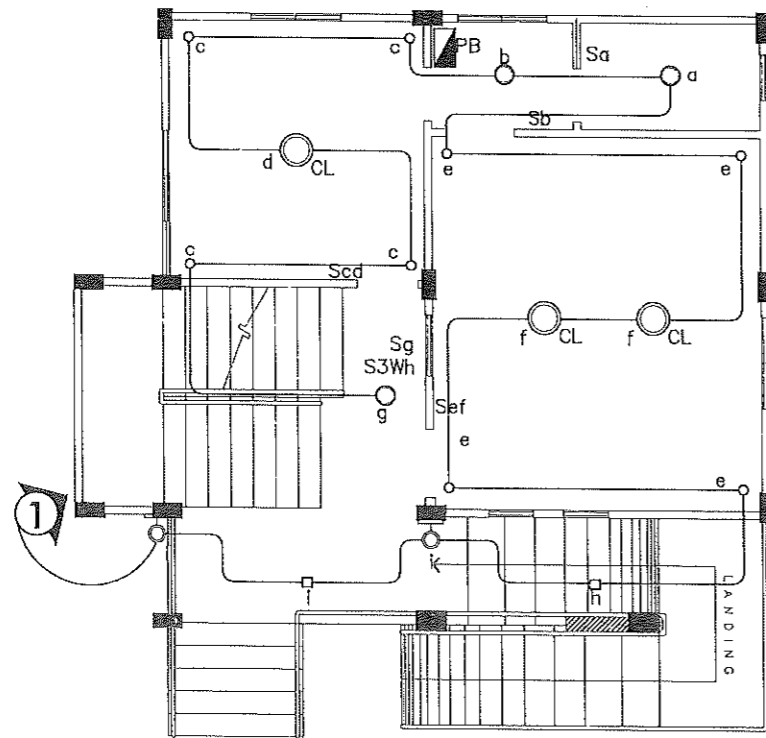
GROUND FLOOR POWER LINE LAY-OUT

SCALE: 1:100 MTS.



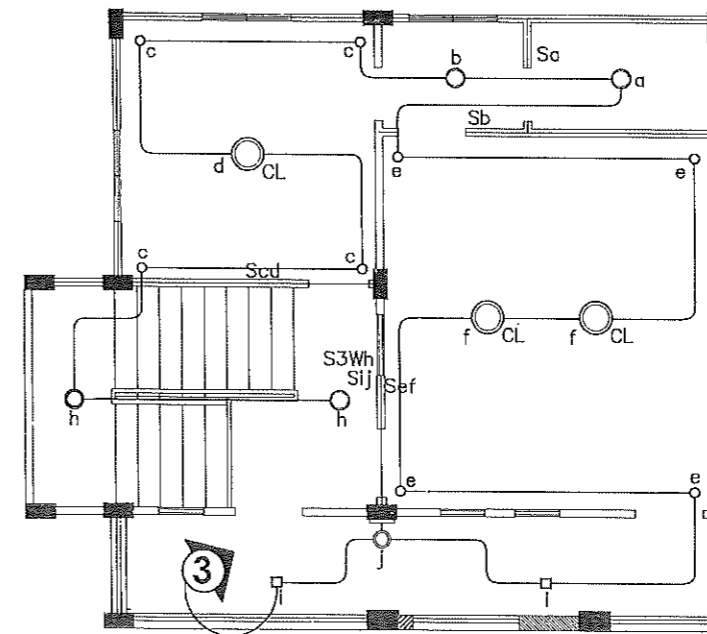
SECOND FLOOR POWER LINE LAY-OUT

SCALE: 1:100 MTS.



GROUND FLOOR LIGHTING LAY-OUT

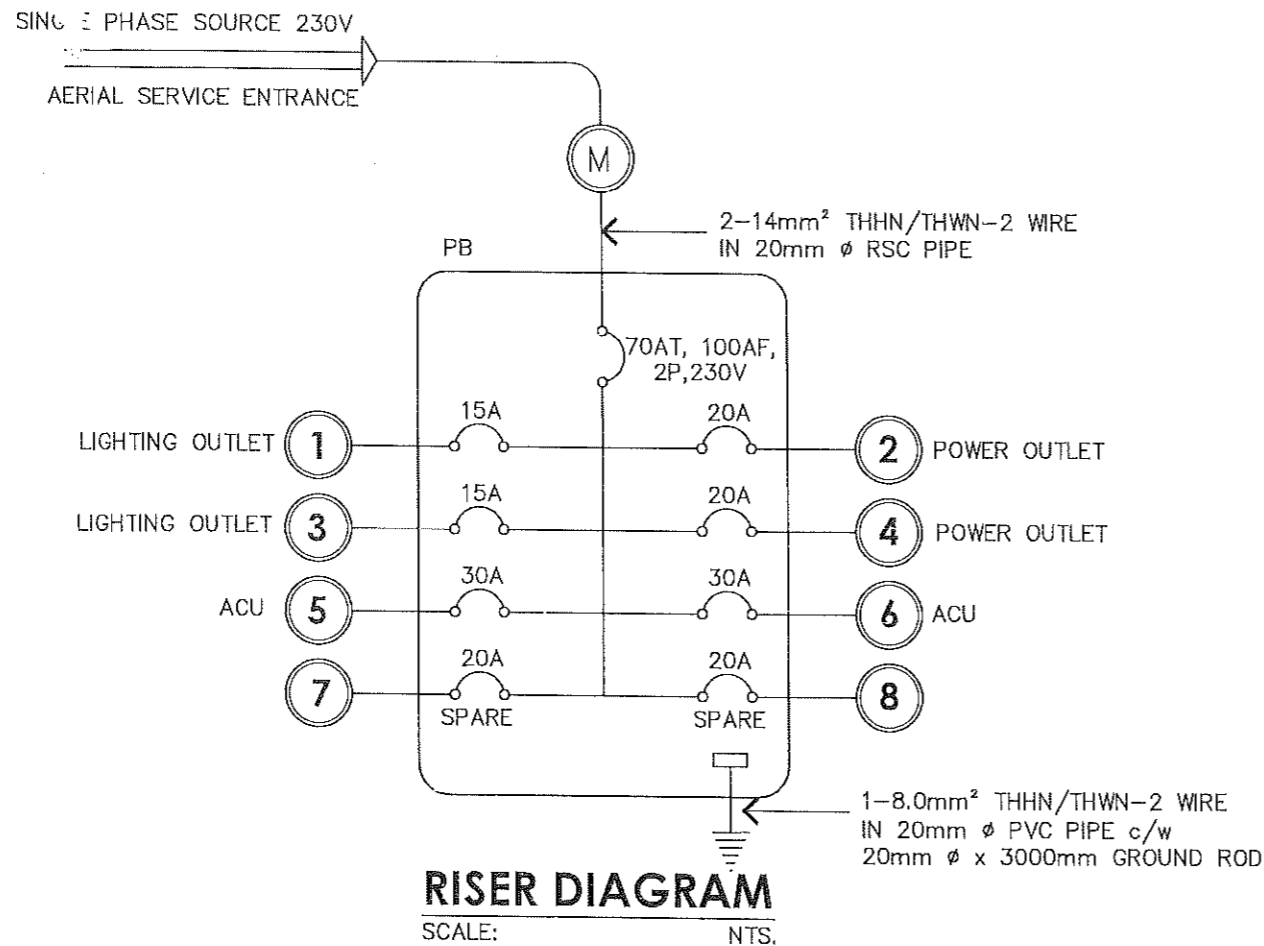
SCALE: 1:100 MTS.



SECOND FLOOR LIGHTING LAY-OUT

SCALE: 1:100 MTS.

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	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA	CONSTRUCTION OF TWO (2) - STOREY MULTI-PURPOSE BUILDING	MICHAEL Y. MONTMAYOR ENGINEER II				HON. DENNIS G. PINEDA GOVERNOR	AS SHOWN	E - 1
	PROVINCIAL ENGINEER'S OFFICE	LOCATION:	CRYSTAL KAYE M. CUNANAN ENGINEER II	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANAHLI ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	ATTY. CHARIE G. CHUA PROVINCIAL ADMINISTRATOR	ELECTRICAL	13/14
	CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	SAN ROQUE, GUAGUA, PAMPANGA	CAD BY: R. GANIA JR.						



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

SCHEDULE OF LOADS						
Ckt. No.	Loads Description	Watts	Volts	Amp.	Circuit Breaker	No. & Sizes of Wires / Conduits
1	3-1x40Watts FL;15-18Watts PL	390	230	1.69	15 AMP	2-3.5mm² THHN Wire in 20mmØ UPVC 1-2.0mm² THHN Cu. GROUND WIRE
2	7 DUPLEX CO	1260	230	5.48	20 AMP	2-3.5mm² THHN Wire in 20mmØ UPVC 1-3.5mm² THHN Cu. GROUND WIRE
3	3-1x40Watts FL;15-18Watts PL	390	230	1.69	15 AMP	2-3.5mm² THHN Wire in 20mmØ UPVC 1-2.0mm² THHN Cu. GROUND WIRE
4	12 DUPLEX CO	2160	230	9.39	20 AMP	2-3.5mm² THHN Wire in 20mmØ UPVC 1-3.5mm² THHN Cu. GROUND WIRE
5	ACU 2.0 HP OUTLET	2760	230	12	30 AMP	2-5.5mm² THHN Wire in 20mmØ UPVC 1-3.5mm² THHN Cu. GROUND WIRE
6	ACU 2.0 HP OUTLET	2760	230	12	30 AMP	2-5.5mm² THHN Wire in 20mmØ UPVC 1-3.5mm² THHN Cu. GROUND WIRE
7	SPARE	1000	230	4.35	20 AMP	
8	SPARE	1000	230	4.35	20 AMP	
Total Loads:		11720		50.95		
COMPUTATIONS:		SIZE OF MCB: 70AT/100 AF Sub Panel, 8 - Branch Terminal, 230 Volts, Single Phase, NEMA 1 Enclosure, 4-20 amp, 2-30amp & 2-15amp Plug-in Type SIZE OF WIRE : 2-14 mm² THHN IN 20 mm Ø RSC PIPE 1-8.0 mm² THHN GROUND WIRE				
BREAKER RATING :		$\frac{11720 + (2760 \times 1.5)}{230 \text{ V}}$ Total = 68.96 AMPERES				

LEGEND & SYMBOLS:

- 20W LED CEILING LAMPS
- LED DOWNLIGHTS
- 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
- SINGLE WALLFAN OUTLET

FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: CONSTRUCTION OF TWO (2) - STOREY MULTI-PURPOSE BUILDING LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	PREPARED BY: MICHAEL T. MONTEMAYOR <small>ENGINEER III</small> CRYSTAL KAYE M. CUNANAN <small>ENGINEER II</small> CAD BY: R. GANIA JR.	CHECKED BY: BRYAN Q. ALVARADO <small>MAINTENANCE DIVISION HEAD</small>	VERIFIED & SUBMITTED BY: WILFREDO A. MANALILI <small>ASSISTANT PROVINCIAL ENGINEER</small>	RECOMMENDING APPROVAL: OLIMPIO M. PANGAN <small>PROVINCIAL ENGINEER</small>	APPROVED BY: HON. DENNIS G. PINEDA <small>GOVERNOR</small> BY THE AUTHORITY OF THE GOVERNOR ATTY. CHARLIE G. CHUA <small>PROVINCIAL ADMINISTRATOR</small>	SHEET CONTENTS: AS SHOWN ELECTRICAL	SHEET NO.: E - 2 14/14
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