

PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM
(FOR 5 PERSONS) - OPTION 2

CLIENT:
DEPARTMENT OF AGRICULTURE AND AGRIFOOD,
BRUNEI DARUSSALAM

ADDRESS:
N/A

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Project Status	Schematic Design
Project Date	18/08/2022
Notes	



KHA Arkitek
P.O Box 272
MPC,
Old Airport,
Berakas
BB3122

Contact No: 2610380

DRAWING NOTES

1. The following designs were developed up to Working Drawing (with pre-approval from ABCi for building design/TBC) - and are considered as sufficient for Authority Submission.
2. No sites were allocated for the units at this stage. Therefore, once a site is allocated, Applicant(s) will need to appoint Qualified Person(s) to include the additional drawing information.
3. These changes and/or additional information will need to be included in the relevant drawings as per required by the Authority.
4. These changes and/or additional information will be subjected to the approval of Client, Department of Agriculture and Agrifood, Brunei Darussalam.
5. All development applications for the units will require a Qualified Person(s) to be appointed for the process of applying for:
 - Planning Approval (including Infrastructure Submission –applicable for 1 unit development)
 - Building Approval
 - Permit to Start Construction
 - Occupational Permit

ABBREVIATIONS

SYMBOLS

GRAPHICAL SCALE BAR

RL	Roofline
DP	Downpipe
FT	Floor Trap
GT	Gully Trap
MH	Manhole
FFL	Final Floor Level
CL	Ceiling Level
T.B.C	To Be Confirmed
NGL	Natural Ground Level
OHC	Overhead Cupboard
WMS	Washing Machine Space
W.I.R	Walk-in-Robe
SGD	Sliding Glass Door
SW	Aluminum Sliding Window
DH	Aluminum Double Hung Window

AW	Aluminum Awning Window
LV	Aluminum Louvre Window
FG	Fixed Glass
SHR	Shower
NTS	Not to Scale
APPROX	Approximate
AVG	Average
R.C	Reinforced concrete
EXT	Existing
QTY	Quantity
RM	Room
BDRM	Bedroom
SPEC	Specification
TYP	Typical

D1

DOOR TAG

W1

WINDOW TAG

ROOM NAME
10 m²


ROOM TAG

A

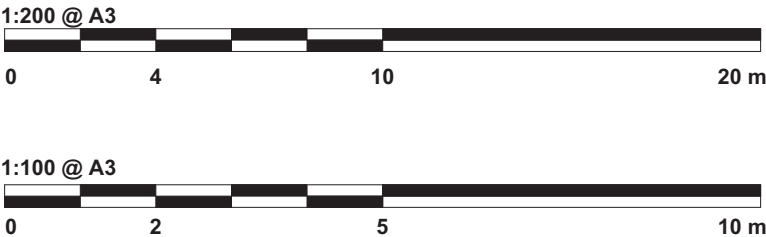
GRID MARKER


SECTION A

SECTION MARKER



NORTH POINT & KIBLAT



Architect's Signature

Khairul Hazi Sirat
Registration No: 00414AT

Client Name and Approved by:

Department of Agriculture and Agrifood, BD

Project Name And Address

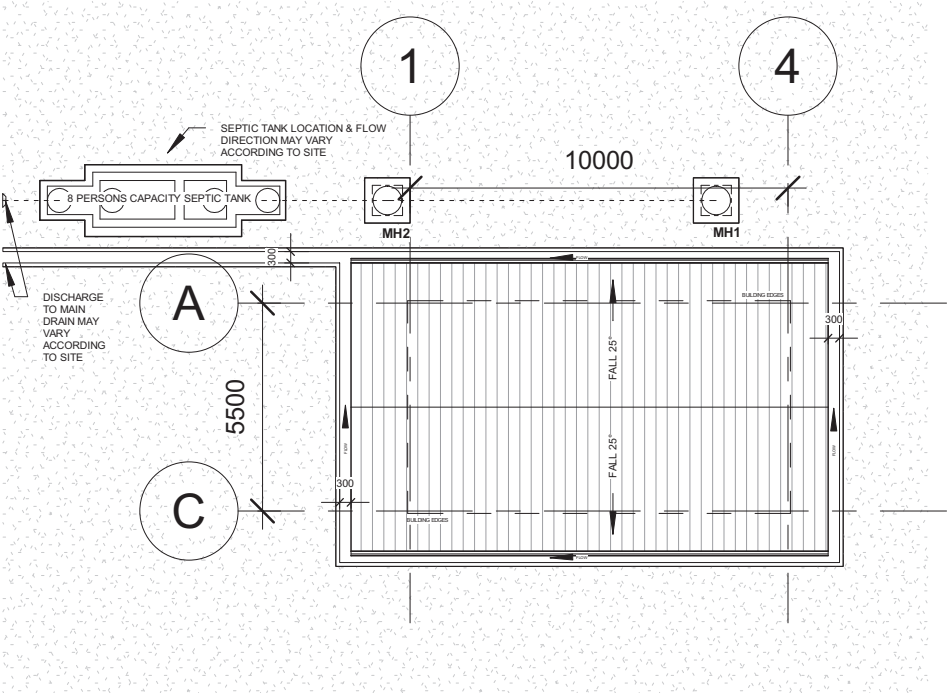
PROPOSED NEW 1 UNIT
STANDARD DESIGN OF FARM
LABOUR QUARTERS, BRUNEI
DARUSSALAM (FOR 5
PERSONS) - OPTION 2

Drawing Name

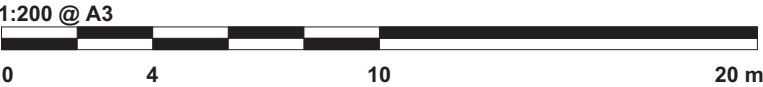
COVER PAGE & DRAWING
NOTES

Designed By	KHS	
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Scale	1 : 20	
Date	08/31/22	
Project No	Sheet No	Rev.
PR120	1	

DRAWING LIST				
No.	Sheet Number	Sheet Name	Sheet Issue Date	Sheet Scale
1	1	COVER PAGE & DRAWING NOTES	08/31/22	NTS
2	A1	DRAWING LIST & SITE DEVELOPMENT PLAN	08/16/22	As indicated
3	B1	GROUND FLOOR & ROOF PLAN	08/16/22	1 : 100
4	C1	GROUND FLOOR CEILING PLAN	08/22/22	1 : 100
5	D1	ELEVATIONS	08/16/22	1 : 100
6	E1	SECTION A & B	08/16/22	1 : 100
7	F1	WINDOW & DOOR SCHEDULE	08/25/22	1:50
8	F2	IRONMONGERY SCHEDULE	09/02/22	
9	F3	VENTILATION & MATERIAL, SANITARYWARE & FITTINGS SCHEDULE	08/26/22	As indicated
10	G1	TB & SHOE WASHING AREA DETAILS	08/26/22	As indicated
11	G2	KITCHEN DETAILS	08/31/22	1:50
12	G3	DOOR JAMB, TYPICAL DPC, GUTTER AND SURFACE DRAIN DETAILS	09/01/22	As indicated
13	K1	GROUND FLOOR ELECTRICAL LAYOUT PLAN	09/02/22	1 : 100
14	P1	ROOM PLANS & FURNITURE SCHEDULE	08/27/22	As indicated



SITE DEVELOPMENT
SCALE 1:200



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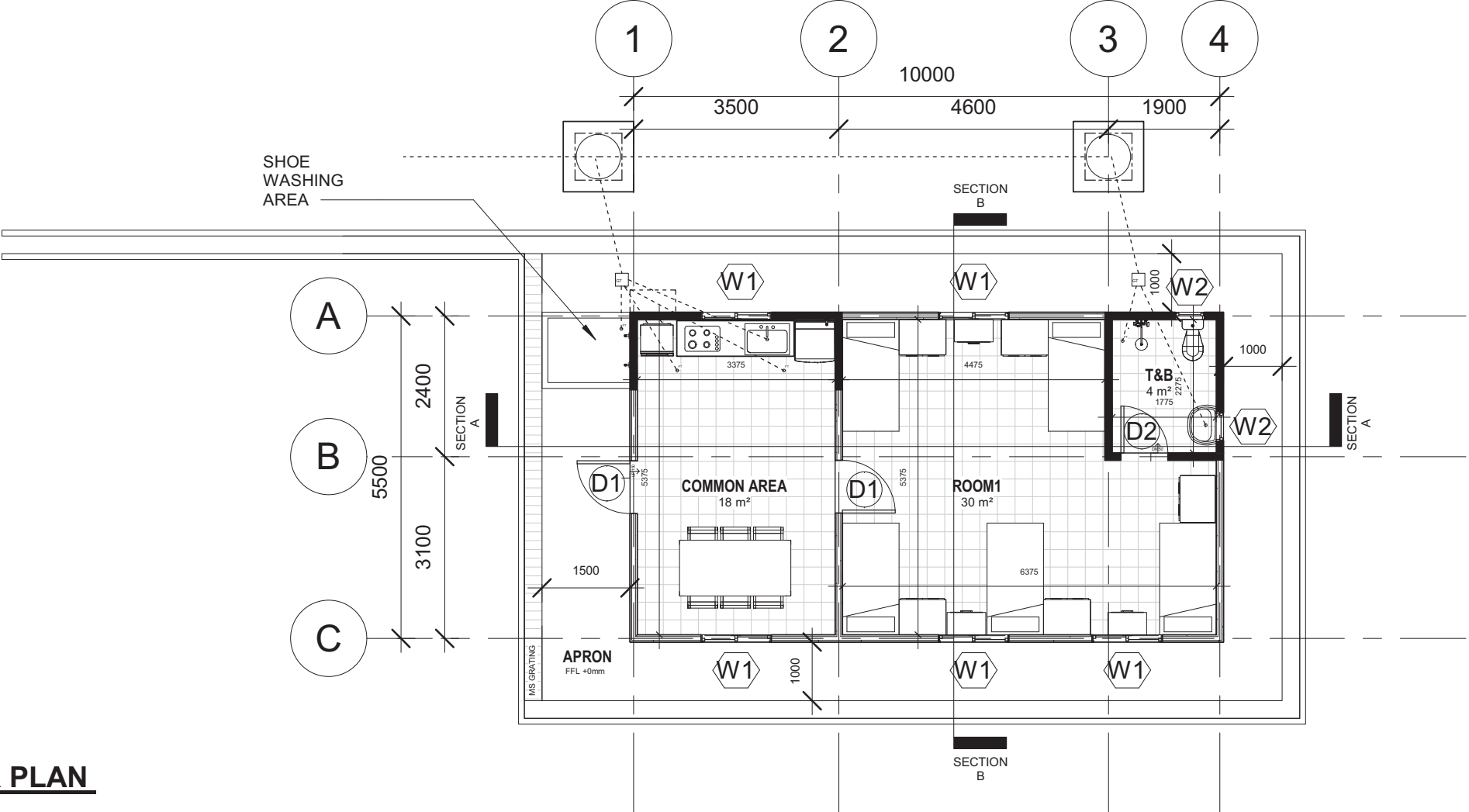
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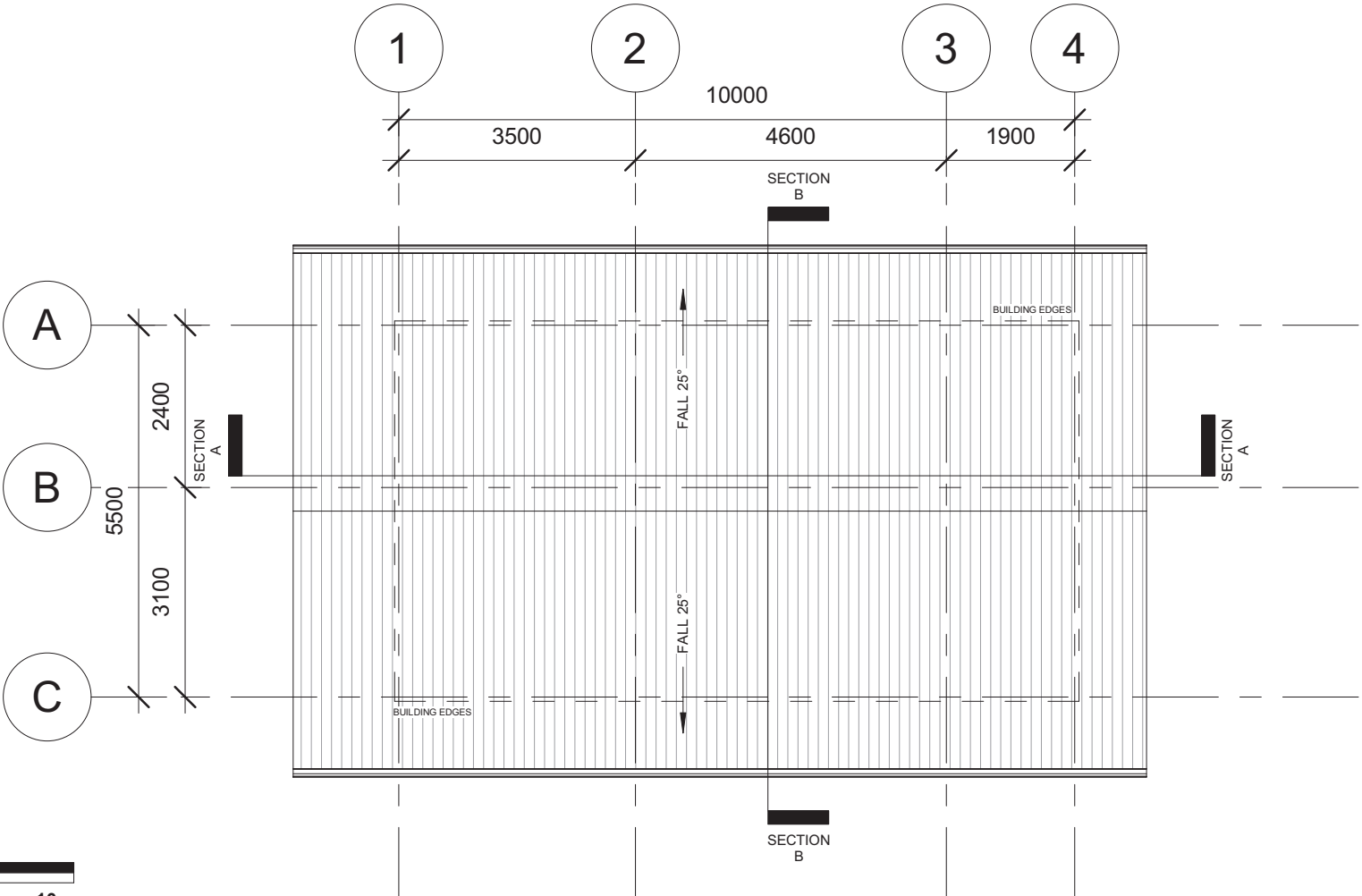
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GROUND FLOOR & ROOF
PLAN

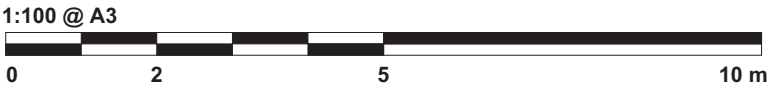
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GROUND FLOOR PLAN
SCALE 1:100



ROOF PLAN
SCALE 1:100



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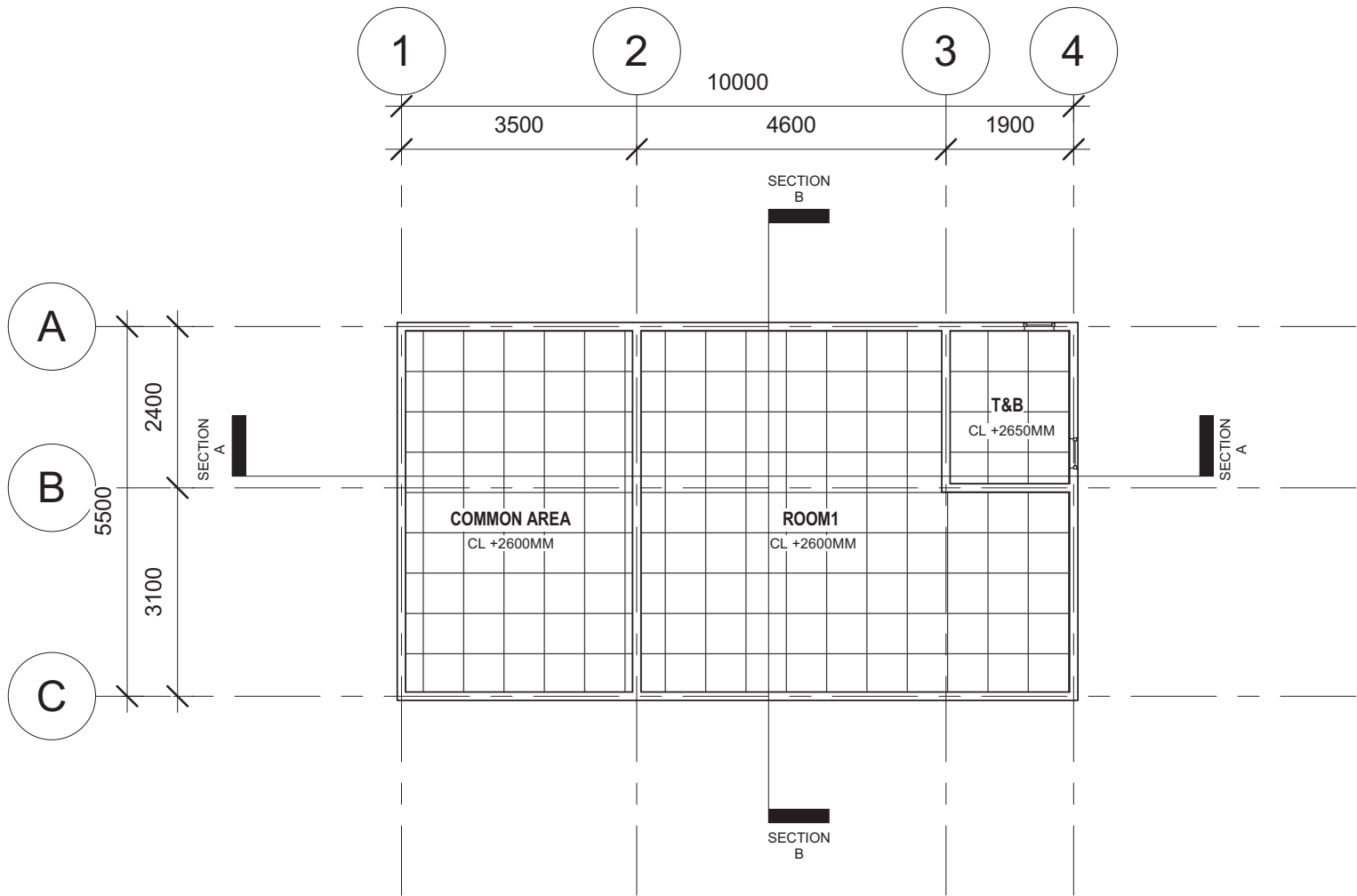
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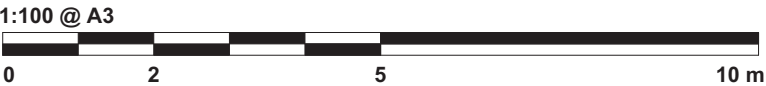
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GROUND FLOOR CEILING
PLAN

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GROUND FLOOR CEILING PLAN
SCALE 1:100



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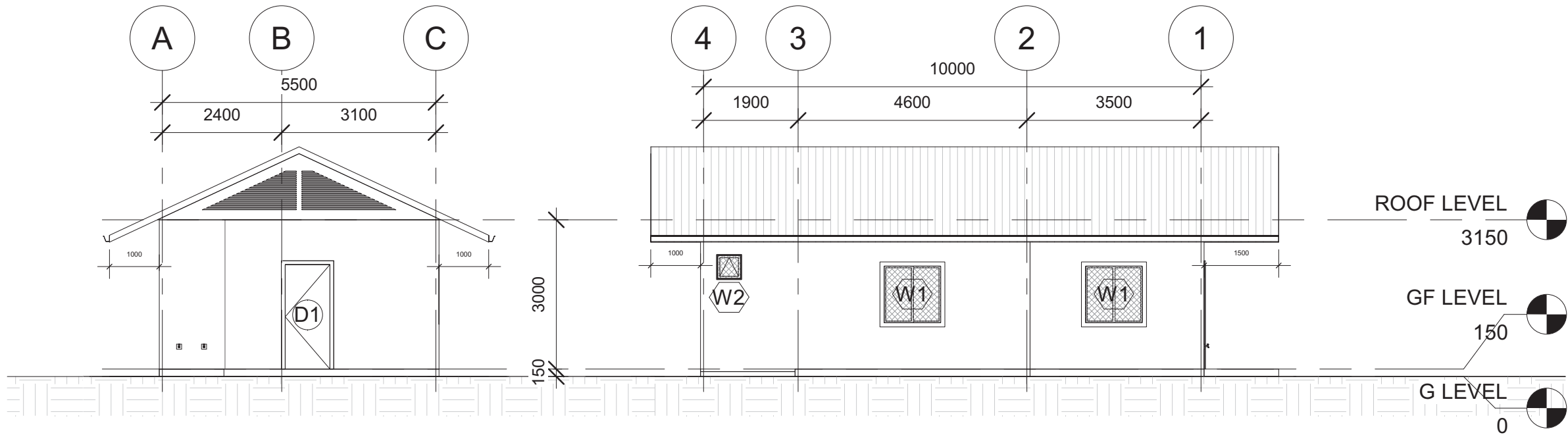
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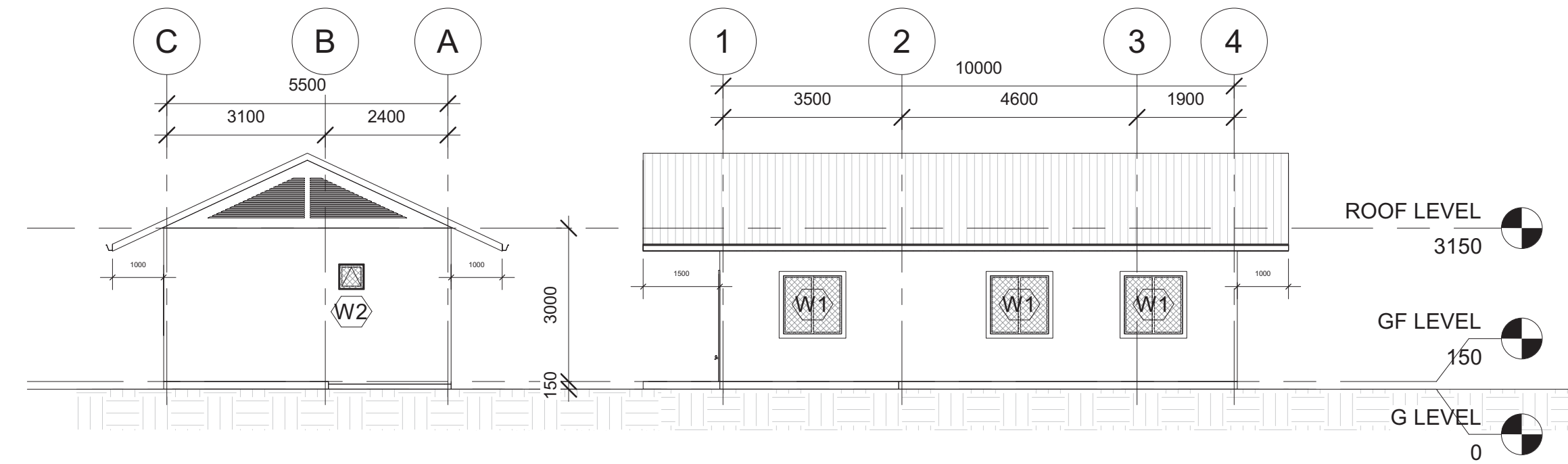
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ELEVATIONS

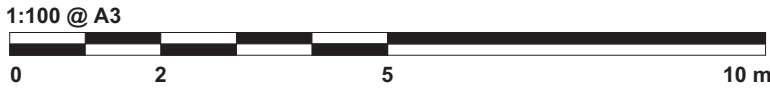
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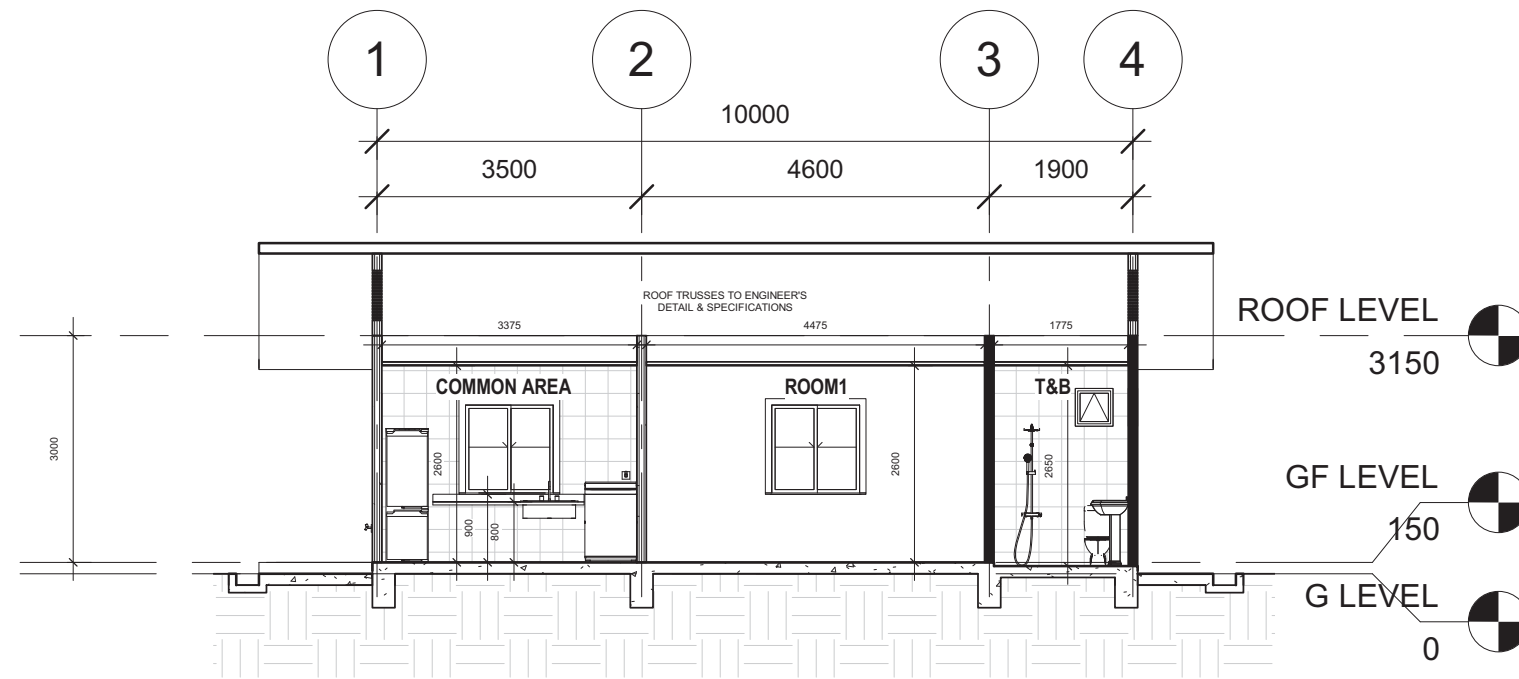


FRONT & LEFT ELEVATION
SCALE 1:100

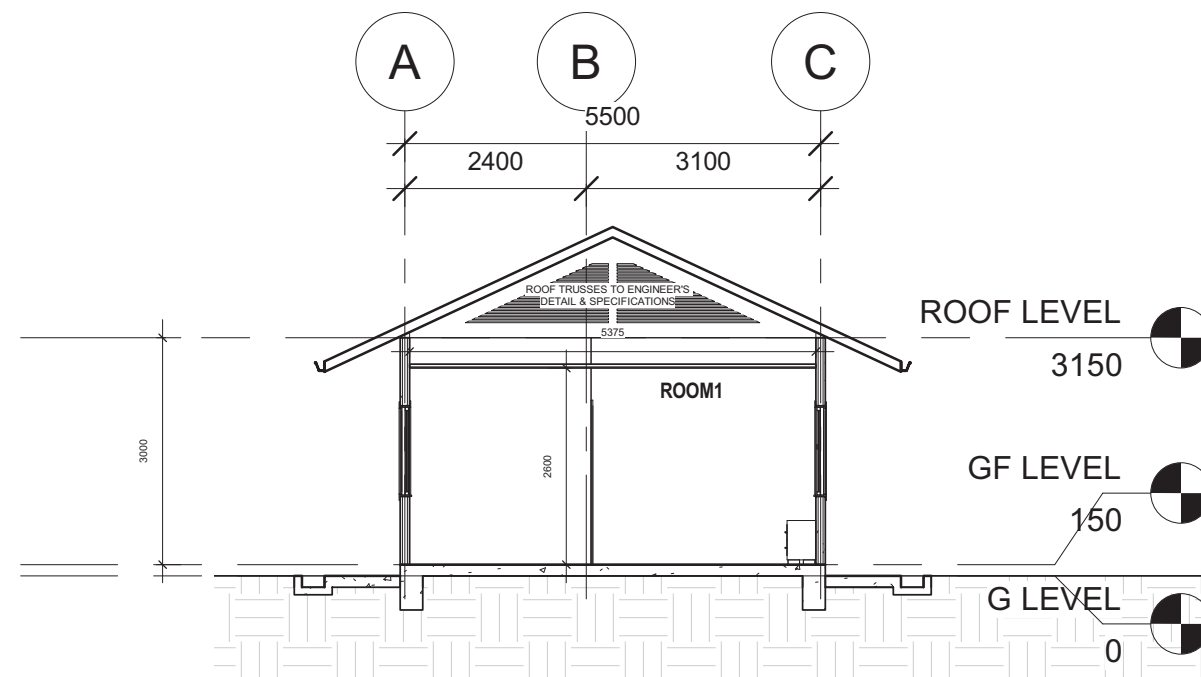


REAR & RIGHT ELEVATION
SCALE 1:100







SECTION A-A
SCALE 1:100



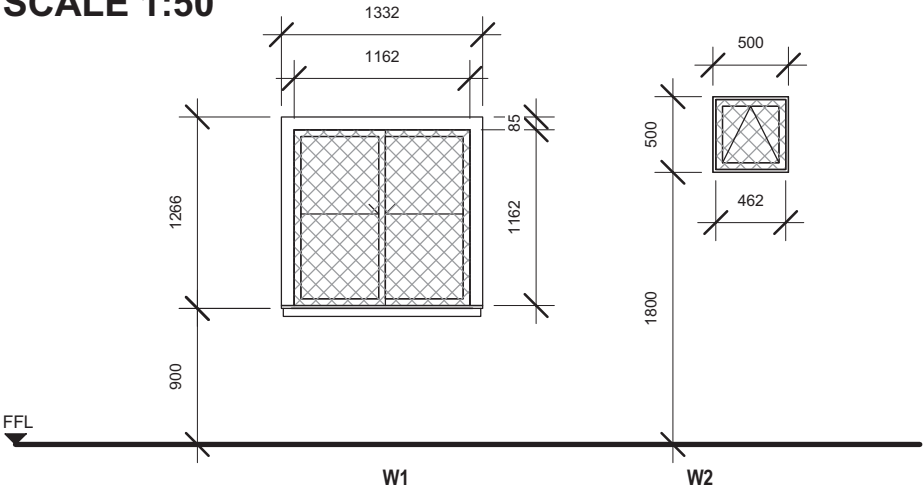
SECTION B-B
SCALE 1:100

1:100 @ A3



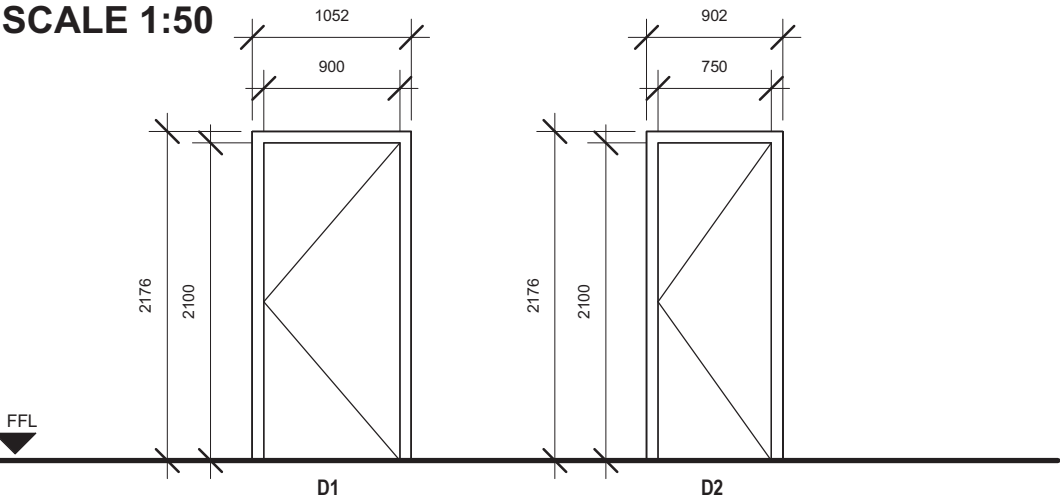
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Architect's Signature		
 Khand Haji Sirat Registration No: 00414Ar		
Client Name and Approved by:		
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Department of Agriculture and Agrifood, BD		
Project Name And Address		
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SECTION A & B		
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WINDOW SCHEDULE
SCALE 1:50



WINDOW SCHEDULE							
CODE	Nos	Location	Level	Sill Height	Width	Height	Description
W1	2	COMMON AREA	GF LEVEL	900	1200	1200	TWO PANELS SLIDING ALUMINIUM FRAMED WINDOW W/6MM THK. CLEAR GLASS W/ MOSQUITO NET COVER COMPLETE W/ ACCESSORIES TO MANUFACTURERS DETAILS
W1	3	ROOM1	GF LEVEL	900	1200	1200	TWO PANELS SLIDING ALUMINIUM FRAMED WINDOW W/6MM THK. CLEAR GLASS W/ MOSQUITO NET COVER COMPLETE W/ ACCESSORIES TO MANUFACTURERS DETAILS
W2	2	T&B	GF LEVEL	1800	500	500	TOP HUNG ALUMINIUM FRAMED WINDOW W/6MM THK. CLEAR GLASS W/ MOSQUITO NET COVER COMPLETE W/ ACCESSORIES TO MANUFACTURERS DETAILS

DOOR SCHEDULE
SCALE 1:50



DOOR SCHEDULE						
CODE	Nos	Location	Level	Width	Height	Description
D1	1	COMMON AREA	GF LEVEL	900	2100	SINGLE LEAF SOLID FIRE RATED DOOR TO MANUFACTURER'S DETAIL
D1	1	ROOM1	GF LEVEL	900	2100	SINGLE LEAF SOLID FIRE RATED DOOR TO MANUFACTURER'S DETAIL
D2	1	T&B	GF LEVEL	800	2100	SINGLE LEAF LAMINATED SOLID DOOR TO MANUFACTURER'S DETAIL

NOTES: ANY DOOR THAT OPEN DIRECTLY TO THE OUTSIDE SHALL BE PROVIDED WITH INSECT SCREEN TO MANUFACTURERS DETAIL AND SPECIFICATION

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PROPOSED NEW 1 UNIT
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LABOUR QUARTERS, BRUNEI
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Drawing Name

WINDOW & DOOR SCHEDULE

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IRONMONGERIES SCHEDULE

					HARDWARE SET					
					DORMA Stainless Steel Butt Hinge 2BB Stainless Steel, (4"x 3.0" x 2.5mm) or equivalent	DORMA Knob Type Lockset CK800 Series 60mm Grade 2 – US32D Finish CK 801 Entrance Function or equivalent	DORMA Knob Type Lockset CK800 Series 60mm Grade 2 – US32D Finish CK 803 Privacy Function or equivalent	ELITE 500 Door Stopper S066701 or equivalent	DORMA Barrel Bolt 2750x300MM SNP or equivalent	UNITY DGS01 stainless steel security door guard
	DOOR SCHEDULE	WIDTH x HEIGHT (mm)	QTY	DOOR TYPE	H1	L1	L2	A1	A2	A3
GROUND FLOOR					HINGES	LOCKSETS		ACCESSORIES		
COMMON AREA	D1	900 x 2100mm	1	FIRE DOOR SINGLE	3	●		●		●
ROOM 1	D1	900 x 2100mm	1	FIRE DOOR SINGLE	3	●	●	●		
TB	D2	800 x 2100mm	1	LAMINATED SOLID DOOR SINGLE	3		●		●	

CODE	CATEGORIES	IMAGES
H1	HINGES	
L1	LOCKSET	
L2		
NO.1	ACCESSORIES	
NO.2		
NO.3		

NOTES: BRAND MAY VARIES TO SUIT USER'S SAFETY AND THE ARCHITECT'S APPROVAL

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PROPOSED NEW 1 UNIT
STANDARD DESIGN OF FARM
LABOUR QUARTERS, BRUNEI
DARUSSALAM (FOR 5
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IRONMONGERY SCHEDULE

Designed By	KHS	
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Date	09/02/22	
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PR120	F2	

ROOM/SPACE	AREA (MSQ)	VENTILATION		LIGHTING	WINDOWS & DOORS	MECHANICAL
		REQUIRED	PROVIDED	PROVIDED		
GROUND FLOOR						
COMMON ROOM	18 MSQ	1.8 MSQ	4.7 MSQ	2.4 MSQ	W1 (2), D1 (1)	SPLIT AC , CEILING FAN
ROOM 1	30 MSQ	3.0 MSQ	4.2 MSQ	3.6 MSQ	W1 (3)	SPLIT AC , CEILING FAN
T&B	4 MSQ	0.4 MSQ	0.4 MSQ	0.3 MSQ	W2 (2)	EXHAUST FAN

AREA	FLOOR				WALL							CEILING			ROOF	
	F1	F2	F3	F4	W1	W2	W3	W4	W5	W6	W7	C1	C2	C3	R1	R2
GROUND FLOOR																
APRON				●												
COMMON ROOM	●	●					●	●				●		●	●	●
COMMON ROOM (KITCHEN)	●	●	●		●	●			●	●	●	●		●	●	●
ROOM 1	●	●					●	●				●		●	●	●
T&B	●	●	●		●	●			●	●	●		●	●	●	●

CODE	FLOOR FINISHES
F1	300mm X 300mm homogeneous non-slip tile, colour and pattern to be decided by client
F2	Grouting
F3	Waterproofing Treatment or equivalent. All application shall be in accordance to manufacturer specification.
F4	Cement Screed to level

CODE	WALL FINISHES
W1	25mm Thick Plaster
W2	Brick Wall
W3	ICI paint to manufacturer specification or equivalent, colour and pattern to be decided by client
W4	Light Dry Wall with metal framing
W5	300mm x 300mm Ceramic tiles, colour and pattern to be decided by client
W6	Bonding agent
W7	Grouting







Notes: For External Walls, dry wall complete with metal framing; one side lined with gypsum board and one side with cement board.

CODE	CEILING FINISHES
C1	12mm Gypsum board with metal framing. ICI paint to manufacturer specification, colour and pattern to decided by client
C2	6mm Cement board with metal framing
C3	ICI paint to manufacturer specification or equivalent

CODE	ROOF FINISHES
R1	Colour Lok clip-on system profile or equivalent with 0.53/054mm thickness including joists and purlins and accessories to manufacturer and installation specification, colour and pattern to be decided by client
R2	Waterproofing, all application and installation shall be in accordance to manufacturer specification

MATERIAL CODE NO.	WATER CLOSET	LAVATORY	FAUCET			SHOWER FAUCET	PAPER HOLDER	TOWEL BAR	MIRROR	ANAL SPRAY / WASHLET	SINK	FLOOR TRAP
	01	01	01	02	03	01	01	01	01	01	01	01
GROUND FLOOR												
EXTERIOR	-	-	-	2	-	-	-	-	-	-	-	1
COMMON AREA	-	-	-	1	1	-	-	-	-	-	1	2
T&B	1	1	1	-	-	1	1	1	1	1	-	2
TOTAL	1	1	1	3	1	1	1	1	1	1	1	5


CODE	WATER CLOSET	CODE	PAPER HOLDER
01	SHOWY "WASHDOWN" 2-PIECE CLOSET (630 X 440 X 775MM) S-trap, 250mm Roughing-in. p-trap, 180mm Rouching-in or equivalent	01	SHOWY-7067-000 "LUXI" S/S STAINLESS STEEL PAPER HOLDER or equivalent
CODE	LAVATORY	CODE	TOWEL BAR
01	SHOWY-6851 WASHBASIN C/W FULL PEDESTAL (520 X 440 X 800MM) or equivalent	01	SHOWY-7142-000 SUS304 S/STEEL DOUBLE TOWEL BAR 600 x 120 x 55mm or equivalent
CODE	FAUCET	CODE	MIRROR
01	SHOWY-3006 "HIGHWAY" EXCLUSIVE S/L BASIN MIXER C/W SWIVEL SPOUT Stock Code: SHOWY-3006-000 or equivalent	01	SHOWY-2998-000 480MM X 350MM SILVER COATED MIRROR or equivalent
02	SHOWY-2908 "BUTTERFLY" BIB TAP C/W 1/2" NOZZLE Stock Code: SHOWY-1755-000 or equivalent	CODE	SHOWER SPRAY / WASHLET
03	SHOWY-3110-3000 "HIGH-GRADE" METAL SINGLE LEVER SINK TAP. Stock Code: SHOWY-3110-001 or equivalent	01	SHOWY-2480-011 "JOPAN" CHROME BIDET SPRAY C/W SHOWY-2453 120CM SILVER PVC HOSE & SHOWY-6322-000 "L" QUARTER-TURN ANGLE COCK WITH BIDET SPRAY HOLDER or equivalent
CODE	SHOWER FAUCET	CODE	SINK
01	SHOWY-3011-3001(R) "CAUSEWAY" 3-WAY LONG BATH MIXER C/W 3041 ABS ROUND SHOWER ROSE & 3039-SH HAND SHOWER Stock Code: SHOWY-3011-013 or equivalent	01	SHOWY-2948-000 "DAGENT" S/S LAY-ON LAUNDRY SINK (600 X 500 X 250MM) or equivalent
		CODE	FLOOR TRAP
		01	SHOWY-2774-000 6" X 6" CHROME ALLOY ADAPTABLE FLOOR TRAP GRATING or equivalent

CODE	CATEGORIES	IMAGES
NO.1	WATER CLOSET	
NO.1	LAVATORY	
NO.1	FAUCET	
NO.2		
NO.3		
NO.1	SHOWER FAUCET	

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VENTILATION & MATERIAL,
 SANITARYWARE & FITTINGS
 SCHEDULE

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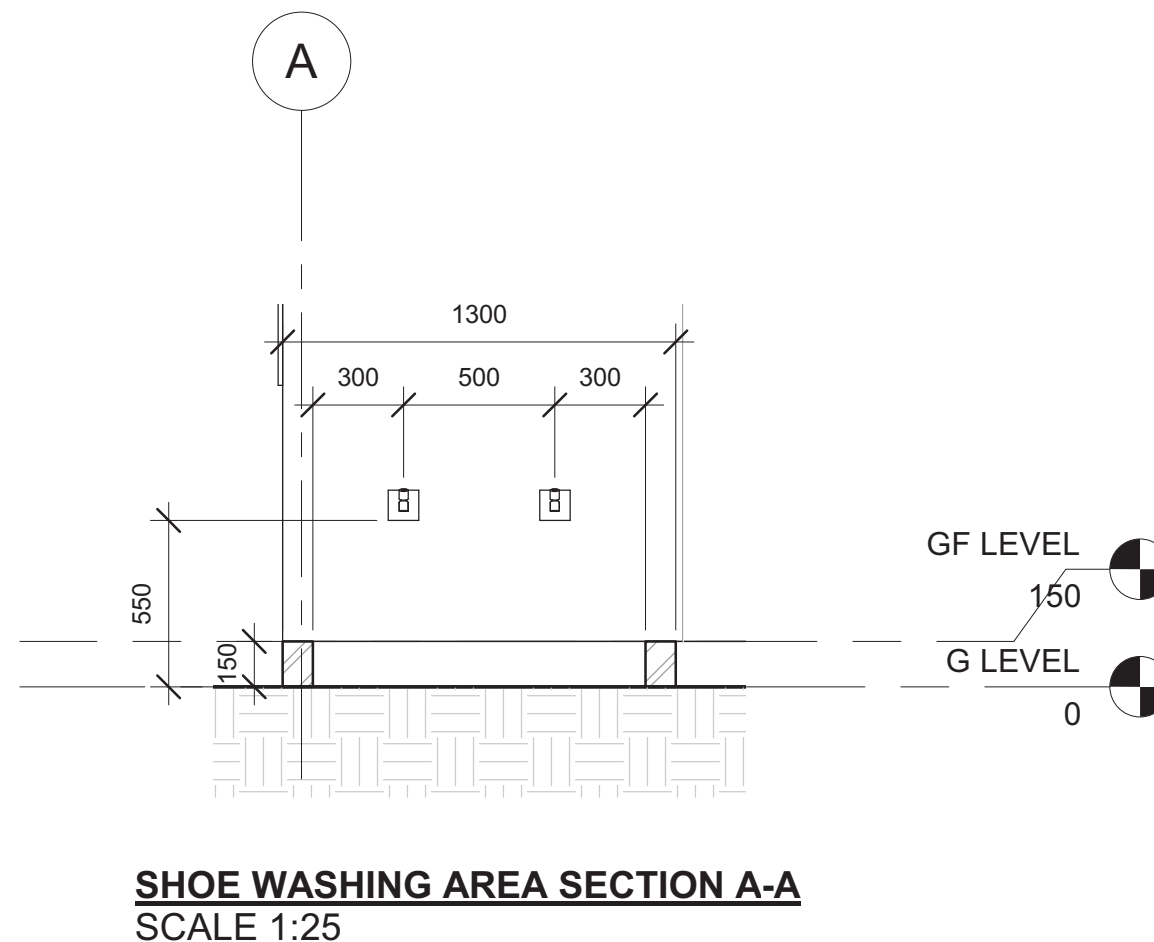
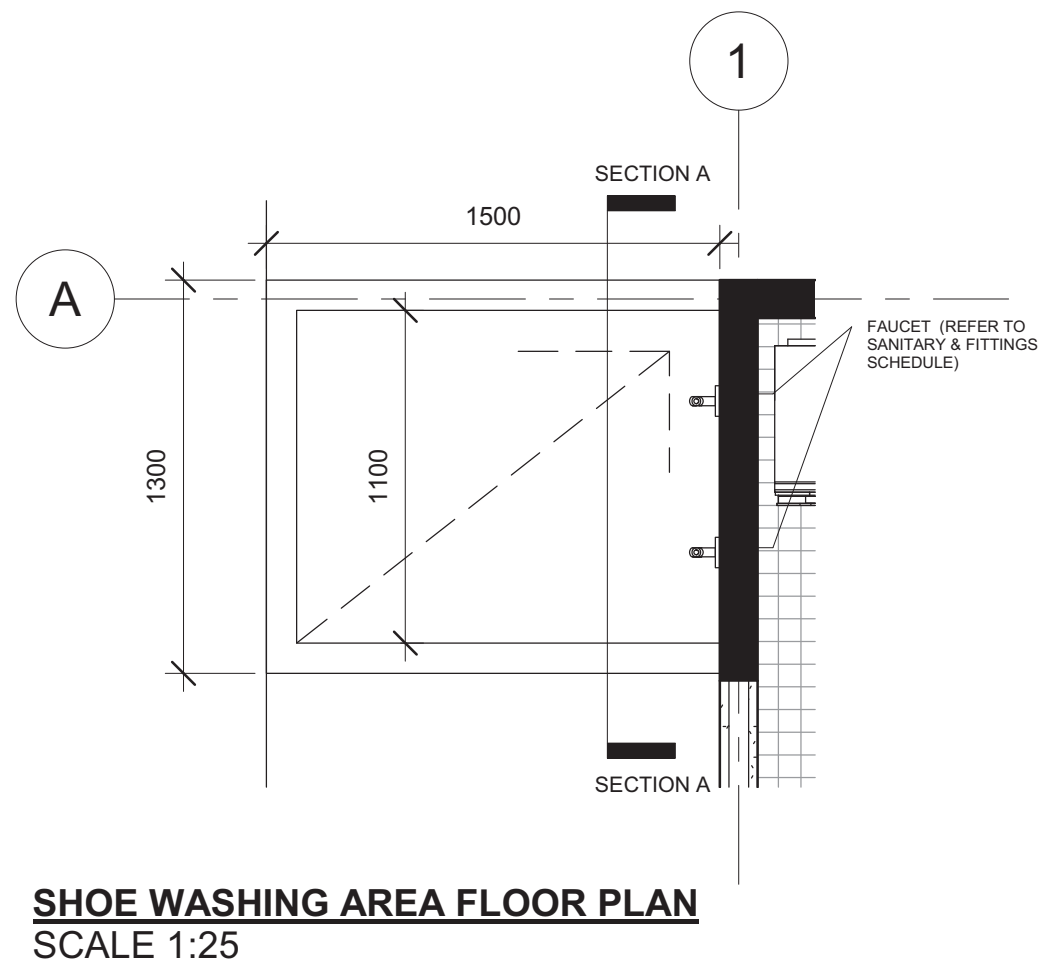
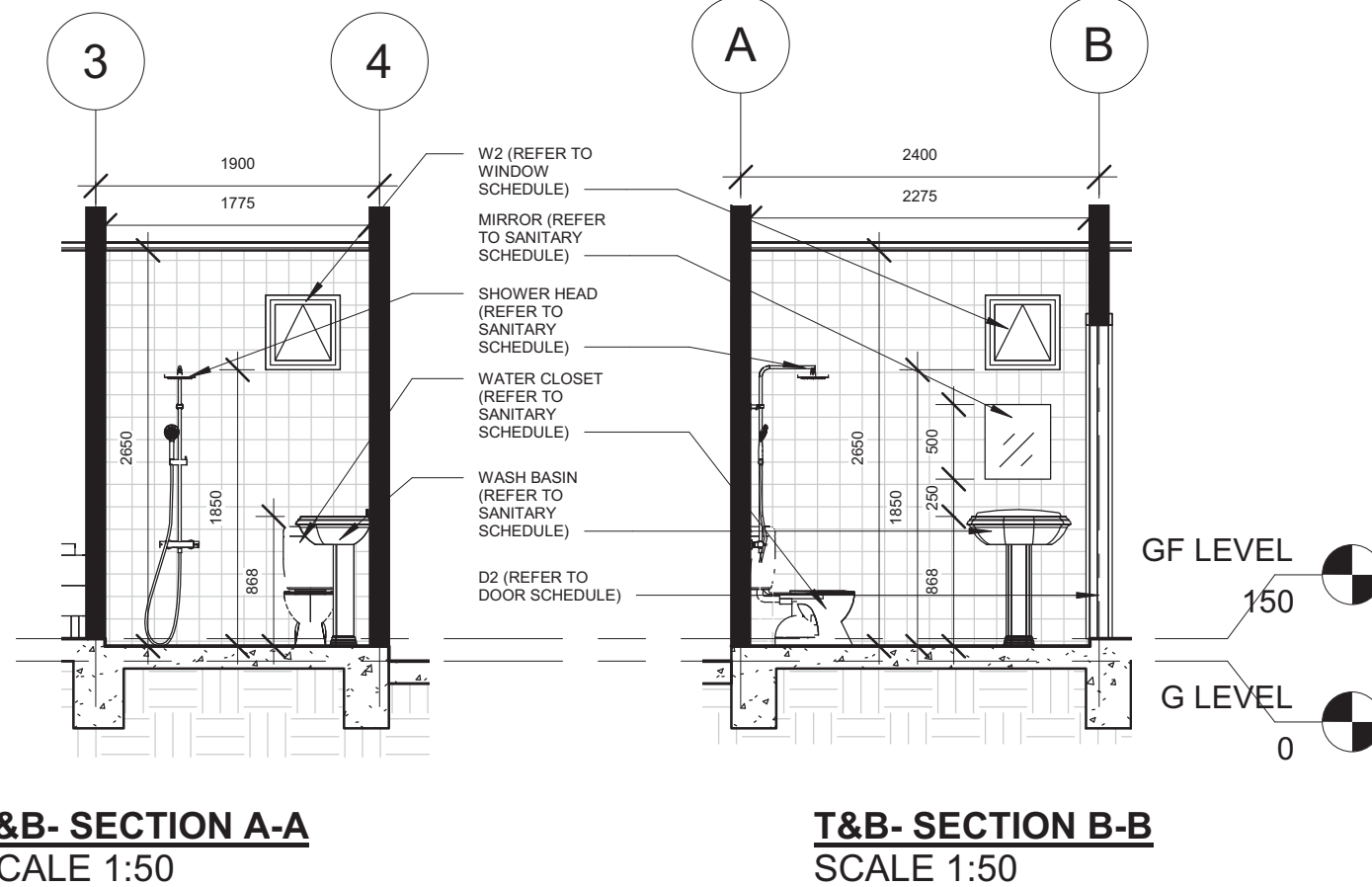
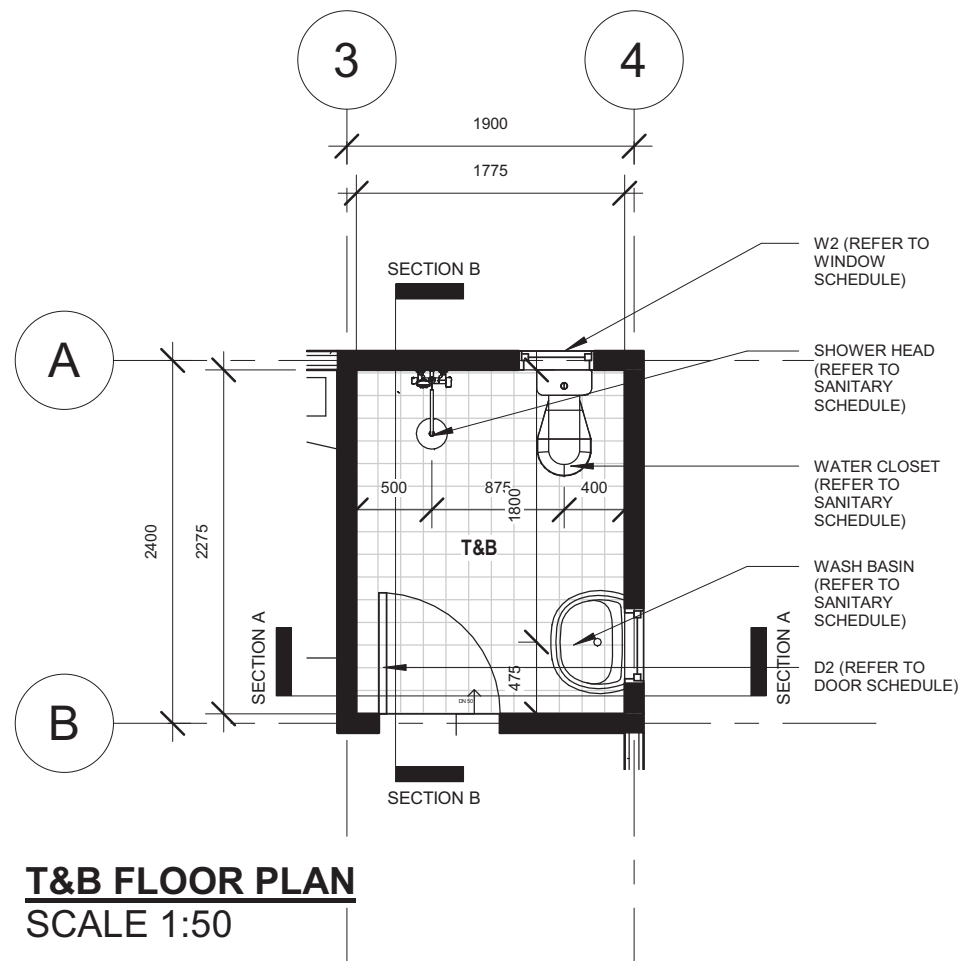


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TB & SHOE WASHING AREA DETAILS

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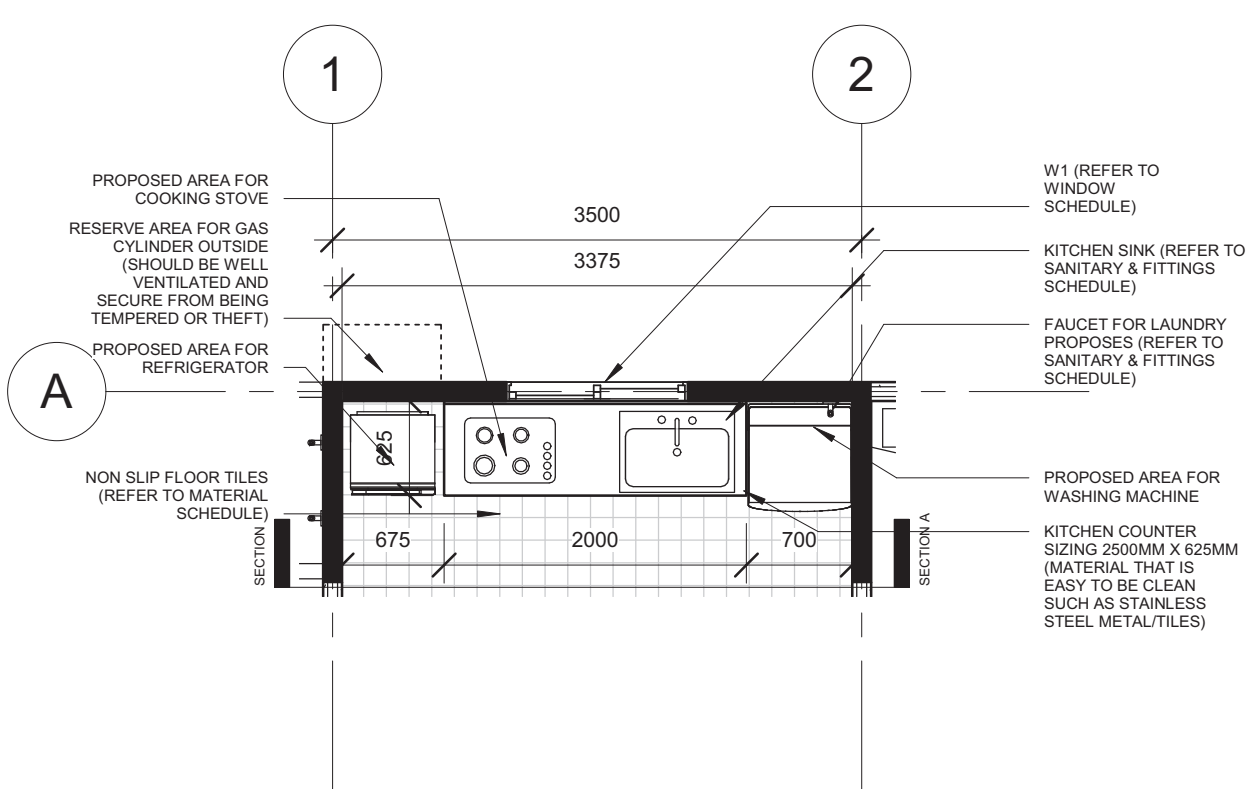
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DARUSSALAM (FOR 5
PERSONS) - OPTION 2

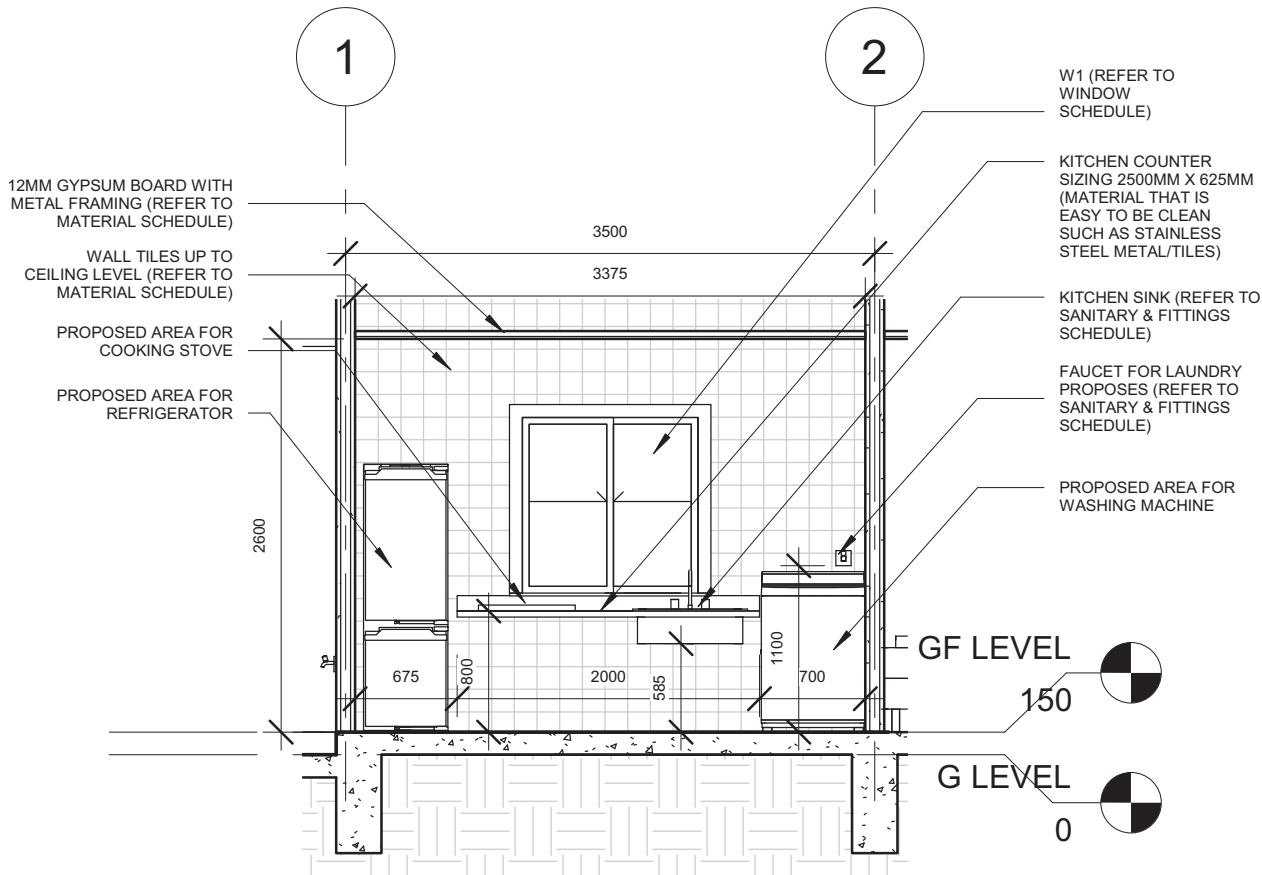
Drawing Name

KITCHEN DETAILS

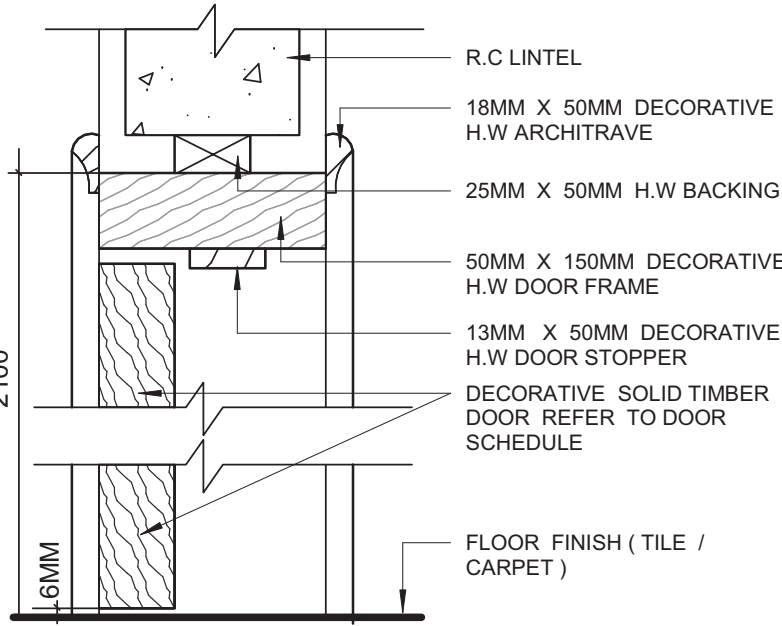
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Drawn By	KHS/SHA	
Checked By	AQI	
Scale	1 : 50	
Date	08/31/22	
Project No	Sheet No	Rev.
PR120	G2	



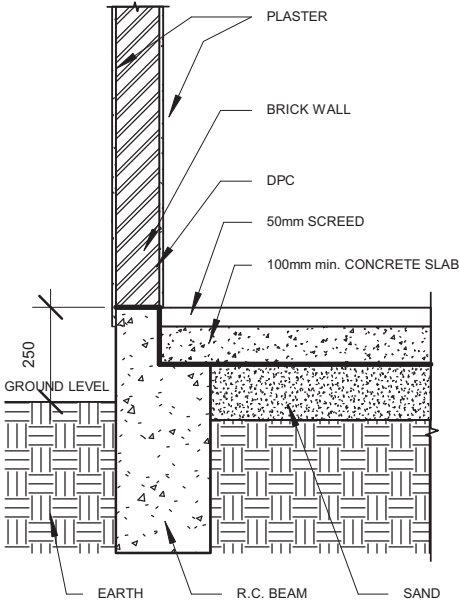
KITCHEN FLOOR PLAN
SCALE 1:50



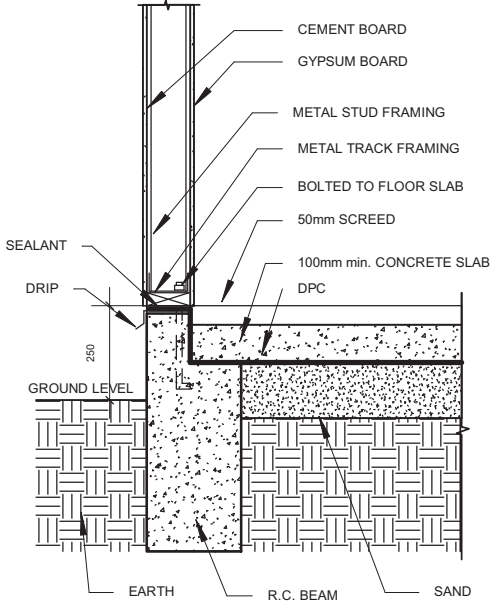
KITCHEN SECTION A-A
SCALE 1:50



**DOOR JAMB
DETAIL
SCALE 1:5**



**TYPICAL DPC DETAILS (SOLID WALL)
SCALE 1:20**



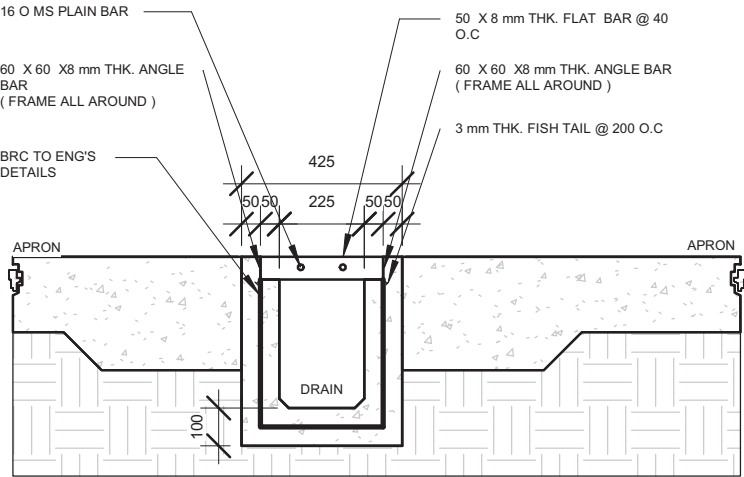
**TYPICAL DPC DETAILS (DRY WALL)
SCALE 1:20**

NOTES: DRY WALL CAN BE OPTED FOR WALL SANDWICH PANEL TO THE MANUFACTURER'S DETAILS AND SPECIFICATIONS

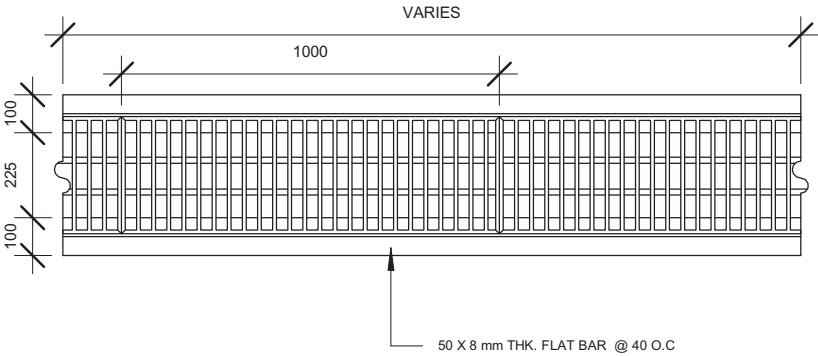
*For External Walls, dry wall complete with metal framing; one side lined with gypsum board and one side with cement board.

*For Internal Walls, dry wall complete with metal framing; both sides lined with gypsum board.

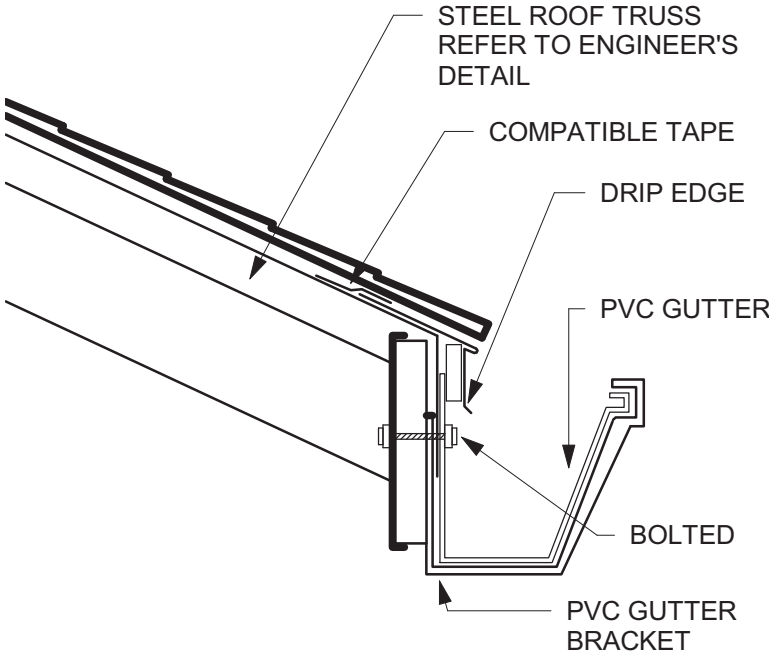
DETAIL OF SURFACE DRAIN WITH HEAVY DUTY MS GRATING COVER



**SECTIONAL 225MM
SCALE 1 : 20**



**TOP DRAIN PLAN
SCALE 1 : 20**



**GUTTER DETAILS
SCALE 1:5**

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Paper size:	A3-LV	
Project Status	Schematic Design	
Project Date	18/08/2022	
Notes		
No	Description	Date
<div><div></div><div><p>KHA Arkithek P.O Box 272 MPC, Old Airport, Berakas BB3122</p></div></div> <p>Contact No: 2610380</p>		
<p>Architect's Signature</p> <div></div> <p>Khalid Haji Sirat Registration No: 00414</p>		
Client Name and Approved by:		
Department of Agriculture and Agrifood, BD		
Project Name And Address		
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2		
Drawing Name		
DOOR JAMB, TYPICAL DPC, GUTTER AND SURFACE DRAIN DETAILS		
Designed By	KHS	
Drawn By	KHS/SHA	
Checked By	AQI	
Scale	As indicated	
Date	09/01/22	
Project No	Sheet No	Rev.
PR120	G3	

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Project Status	Schematic Design
Project Date	18/08/2022

Notes

No	Description	Date



KHA

arkitek

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Berakas

BB3122

Contact No: 2610380

Architect's Signature



KHA

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Khalid Haji Sirat

No. 6517mpang 336-53-64

Jalan Jerudong

863122

Registration No: 0041474

Client Name and Approved by:

Department of Agriculture and Agrifood, BD

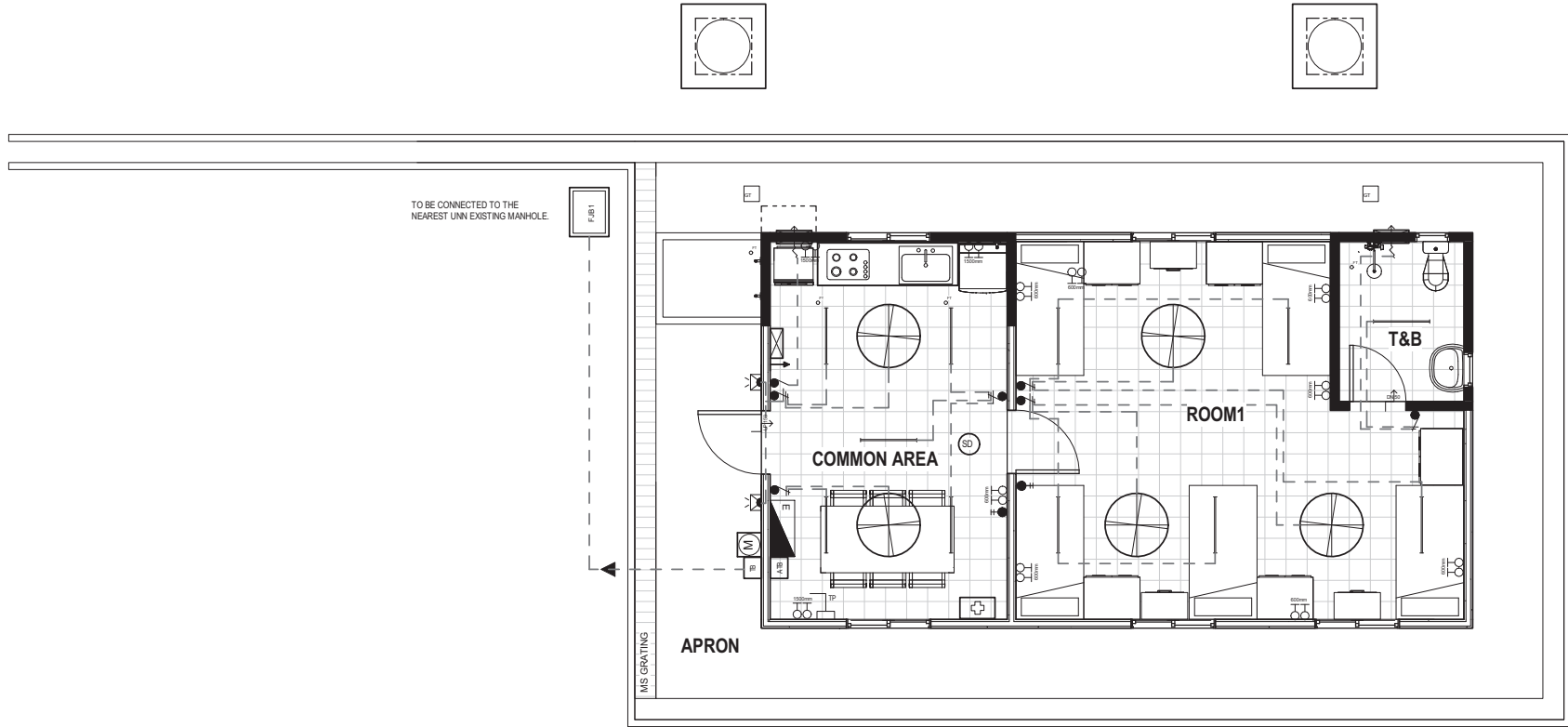
Project Name And Address













PROPOSED NEW 1 UNIT
STANDARD DESIGN OF FARM
LABOUR QUARTERS, BRUNEI
DARUSSALAM (FOR 5
PERSONS) - OPTION 2








Drawing Name

GROUND FLOOR ELECTRICAL
LAYOUT PLAN

Designed By	KHS	
Drawn By	KHS/SHA	
Checked By	AQI	
Scale	1 : 100	
Date	09/02/22	
Project No	Sheet No	Rev.
PR120	K1	



ELECTRICAL SYMBOLS	
	1X LED TUBE LIGHTING
	WALL LIGHTING (WALL MOUNTED & WEATHERPROOF LIGHT FIXTURE)
	ONE GANG SINGLE TOGGLED SWITCH POINT
	ONE GANG TWO TOGGLED SWITCH POINT
	ONE GANG THREE TOGGLED SWITCH POINT
	2 x 13A SOCKET OUTLET at 600mm HIGH ABOVE FINISHED FLOOR LEVEL. FOR EXTERNAL AREA, WATER PROOF BOX OR COVER SHALL BE USED
	2 x 13A SOCKET OUTLET at 1500mm HIGH ABOVE FINISHED FLOOR LEVEL. FOR EXTERNAL AREA, WATER PROOF BOX OR COVER SHALL BE USED
	15A SWITCH SOCKET OUTLET
	CEILING FAN
	ELECTRICAL DISTRIBUTION BOARD
	PRE-PAID ELECTRIC METER
	300mm Dia. EXHAUST FAN PT.COME WITH FUSE CONNECTION UNIT

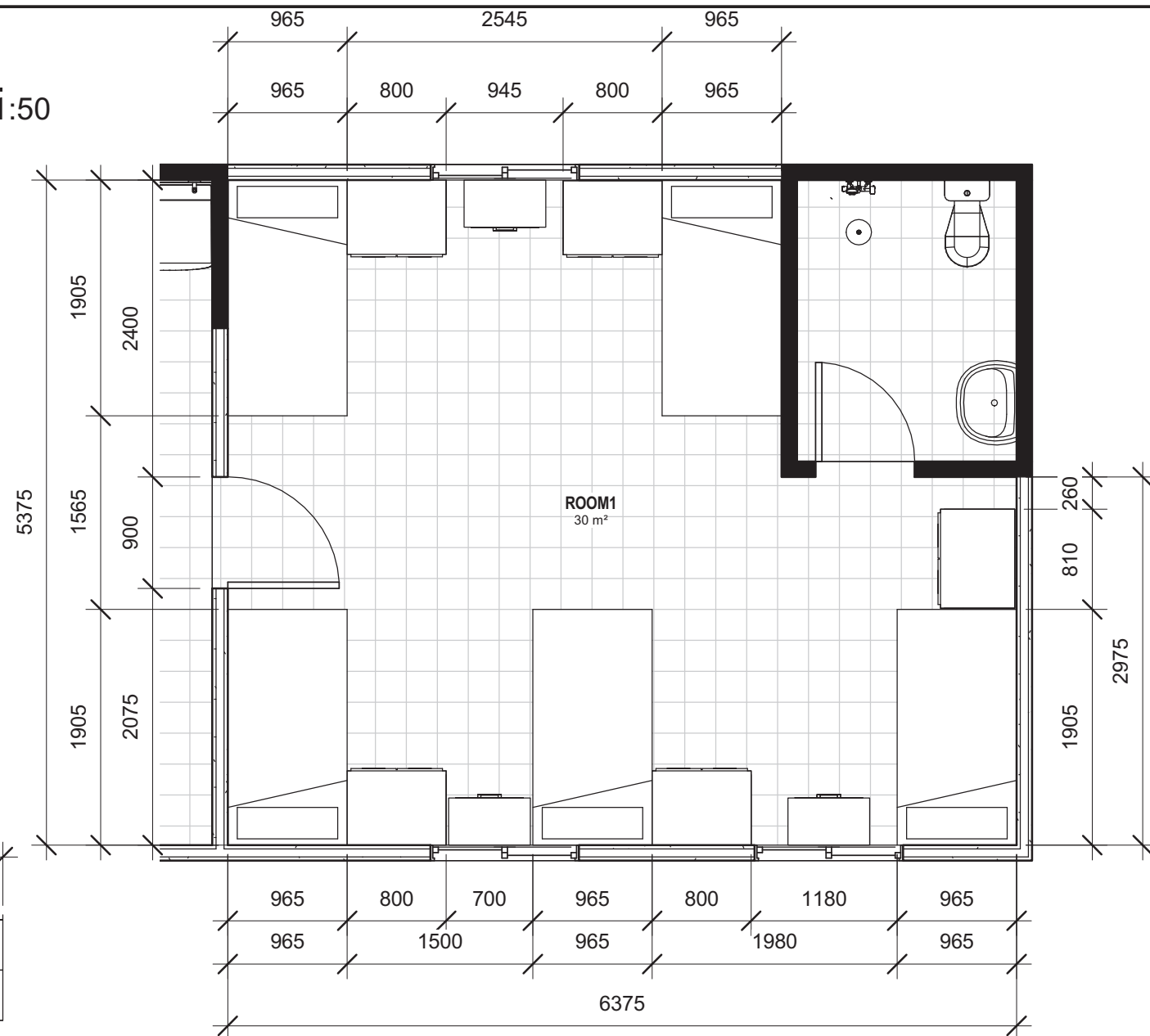
JPB SYMBOLS	
	2.5KG (CO2) DRY EXTINGUISHER
	FIRE BLANKET (1 x 1.2 x 1.8m)
	SMOKE DETECTOR
TELECOMMUNICATION SYMBOLS	
	TELEPHONE OUTLET
	ACCESS TERMINATION BOX
	TERMINATION BOX
FIRST AID SYMBOLS	
	FIRST AID KIT BOX

GROUND FLOOR ELECTRICAL LAYOUT PLAN

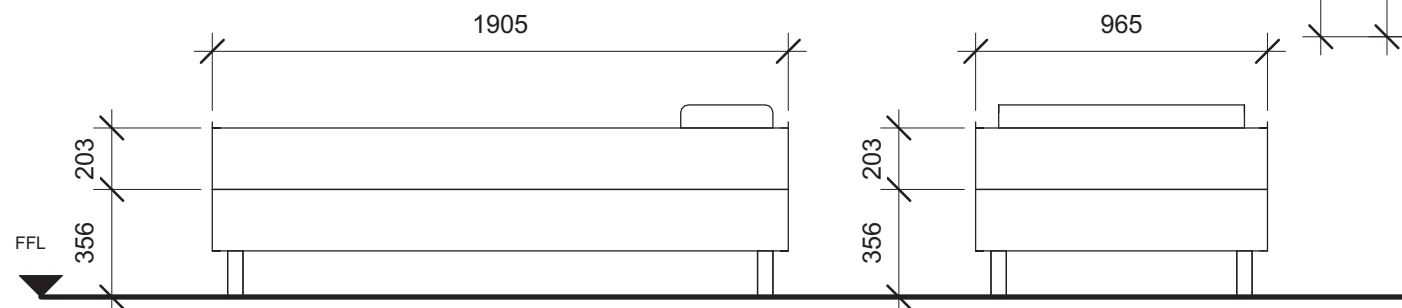
SCALE 1:100

1:100 @ A3

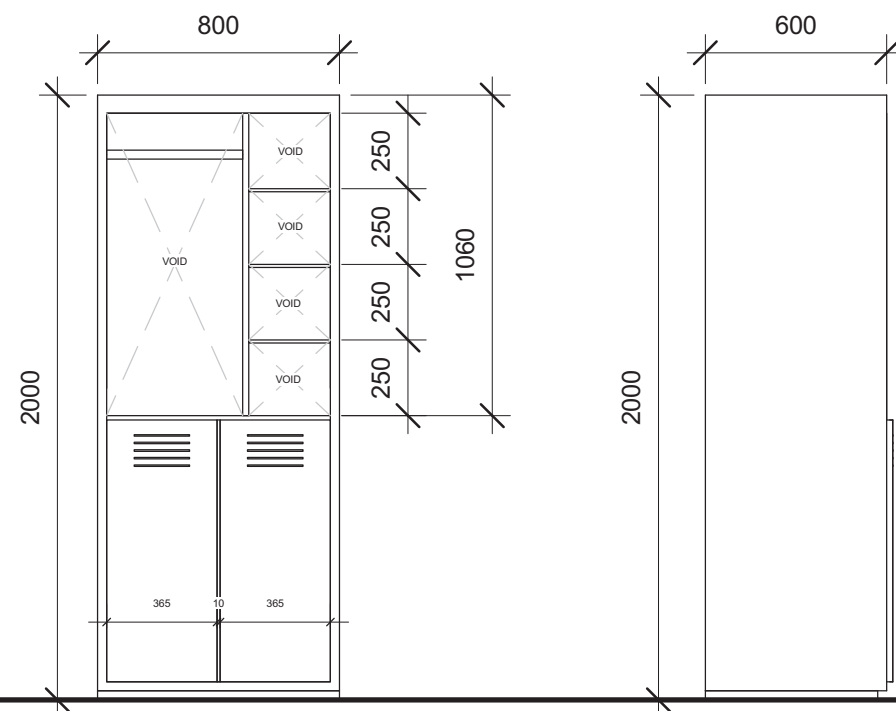




FURNITURE SCHEDULE
SCALE 1:25



SINGLE BED



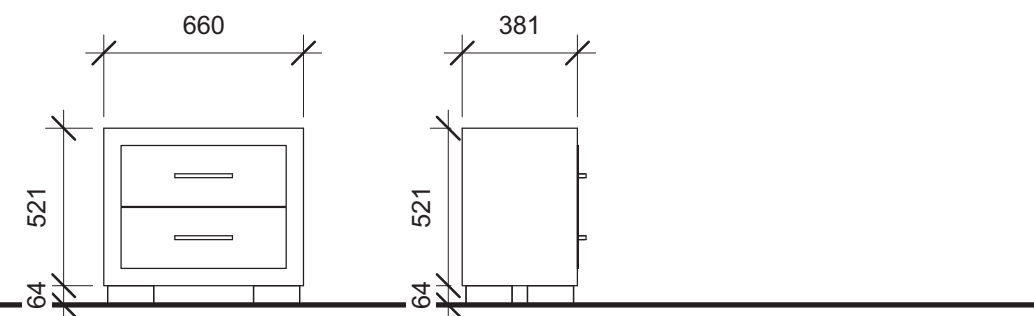
LOCKER

BED REQUIREMENT




- Single Bed
- Sizing 900mm x 1900mm, 300mm from the floor to bottom mattress.
- 1500mm between beds

LOCKER REQUIREMENT

- Lockable
- Sizing 2000mm(h) x 800mm x 600mm
- Open shelf



END TABLE

Printed:	3/9/2022 10:12:53 AM		
Paper size:	A3-LV		
Project Status	Schematic Design		
Project Date	18/08/2022		
Notes			
No	Description	Date	
<div><div><p>Contact No: 2610380</p></div><div><p>KHA Arkitek P.O Box 272 MPC, Old Airport, Berakas BB3122</p></div></div>			
Architect's Signature			
<div></div> <p>Khalid Haji Sirat Registration No: 004144r</p>			
Client Name and Approved by:			
Department of Agriculture and Agrifood, BD			
Project Name And Address			
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2			
Drawing Name			
ROOM PLANS & FURNITURE SCHEDULE			
Designed By	KHS		
Drawn By	KHS/SHA		
Checked By	AQI		
Scale	As indicated		
Date	08/27/22		
Project No	Sheet No	Rev.	
PR120	P1		

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

LIST OF DRAWINGS				
	DESCRIPTIONS	DRAWING NO.	REVISION NO.	REMARKS
1	LIST OF DRAWINGS	SBC/Q366/AFLQ/5PO2/RC/L - 100	2	
2	GENERAL NOTES	SBC/Q366/AFLQ/5PO2/RC/G-100		
3	150x150mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN	SBC/Q366/AFLQ/5PO2/RC/CS-100		
4	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-101		
5	PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 100 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-101A		
6	PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 100 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-101B		
7	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-102		
8	PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 150 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-102A		
9	PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 150 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-102B		
10	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-103		
11	PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 200 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-103A		
12	PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 200 KN/m ²]	SBC/Q366/AFLQ/5PO2/RC/CS-103B		
13	COLUMN SCHEDULE	SBC/Q366/AFLQ/5PO2/RC/CS-104		
14	GROUND FLOOR BEAM LAYOUT PLAN	SBC/Q366/AFLQ/5PO2/RC/CS-200		
15	GROUND FLOOR BEAM DETAILS	SBC/Q366/AFLQ/5PO2/RC/CS-201		
16	ROOF BEAM LAYOUT PLAN	SBC/Q366/AFLQ/5PO2/RC/CS-300		
17	ROOF BEAM DETAILS	SBC/Q366/AFLQ/5PO2/RC/CS-301		
18	ROOF TRUSSES LAYOUT PLAN	SBC/Q366/AFLQ/5PO2/RC/CS-400		
19	ROOF TRUSSES SECTION (FOR ROOF TRUSS TO REINFORCE CONCRETE BEAM CONNECTION)	SBC/Q366/AFLQ/5PO2/RC/CS-401		
20	ROOF TRUSSES AND PURLIN CONNECTIONS DETAILS (FOR ROOF TRUSS TO REINFORCE CONCRETE BEAM CONNECTION)	SBC/Q366/AFLQ/5PO2/RC/CS-402		
21	MISCELLANEOUS DETAILS - 1	SBC/Q366/AFLQ/5PO2/RC/MISC-100		
22	MISCELLANEOUS DETAILS - 2	SBC/Q366/AFLQ/5PO2/RC/MISC-101		



SERI BUMI CONSULTANT
CIVIL & STRUCTURAL ENGINEERING CONSULTANT
No. 14, 2nd FLOOR, BLOCK A, GADONG CENTRAL, SIMPANG
21, JALAN GADONG, SSB, BRUNEI DARUSSALAM
TEL: 673-2427275 FAX: 673-2427279
E-MAIL: sbc@brunei@gmail.com

CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY
THAN ZAW TUN
DRAWN BY
SAI
CHECKED BY
MD. YUNUS
APPROVED BY

DATE
20/09/2022

SCALE:

N.T.S

TITLE:

LIST OF DRAWINGS (OPTION 2)

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:

SHEET NO:

DRAWING NO:

SBC/Q366/AFLQ/5PO2/RC/L - 100

REV:

1

1. GENERAL

- 1.1 SETTING OUT:
ALL DIMENSIONS MEASURED ON SITE SHALL BE CHECKED AND CONFIRMED WITH RELEVANT ARCHITECTURAL, M&E, CIVIL AND STRUCTURAL DRAWINGS.
- 1.2 ANY DISCREPANCIES BETWEEN ARCHITECTURAL, C&S AND M&E DRAWINGS SHALL BE REFERRED TO PROJECT ARCHITECT OR STRUCTURAL ENGINEER OR M&E.
- 1.3 PLEASE NOTE THAT THE ARCHITECTURAL DRAWINGS GRID LINE AND STRUCTURAL DRAWINGS GRID LINES HAVE BEEN PURPOSELY OFF-SET TO EASE CONSTRUCTION ON STRUCTURAL MEMBERS.

2. STANDARDS & CODE OF PRACTICE

- 2.1 BS 8110 : 1985 STRUCTURAL USE OF CONCRETE
- 2.2 PBD 12 : 2008 BUILDING GUIDELINES AND REQUIREMENTS
- 2.3 BS 4449 : 1978 HOT ROLLED STEEL BARS FOR THE REINFORCEMENT OF CONCRETE

3. CONCRETE

- 3.1 CONCRETE STRENGTH :- 25 N/mm² (GRADE 25) UNLESS OTHERWISE STATED
- | | |
|---------------|------------------------|
| LEAN CONCRETE | - 15 N/mm ² |
| PILE CAP | - 25 N/mm ² |
| COLUMN | - 25 N/mm ² |
| SLAB | - 25 N/mm ² |
| BEAM | - 25 N/mm ² |

- 3.2 CONCRETE COVER TO ALL REINFORCEMENT INCLUDING LINKS SHALL MEET THE 2-HOUR FIRE RATING & AS STATED BELOW (UNLESS OTHERWISE STATED)
- | | |
|-----------|--------|
| COLUMNS | : 30mm |
| BEAMS | : 30mm |
| PILE CAPS | : 75mm |
| SLABS | : 20mm |

- 3.3 CONCRETE CURING : TO BE CARRIED OUT BY SPRAYING WITH WATER AND COVERING WITH EITHER GUNI SACKS OR PLASTIC SHEETS.

- 3.4 ANY COLD JOINTS AND HACKED CONCRETE SURFACE SHALL BE APPLIED WITH APPROVED BONDING AGENT BEFORE POURING NEW CONCRETE.

- 3.5 50mm (MINIMUM) THICK BLINDING LEAN CONCRETE SHALL BE PROVIDED BENEATH FOOTINGS, GROUND BEAMS AND ALL GROUND FLOOR SLABS SOFFIT.

4. STEEL REINFORCEMENT

- 4.1 THE MINIMUM YIELD STRENGTH OF STEEL REINFORCEMENT (WITH DENOTATION "T") FOR HIGH TENSILE DEFORMED BAR (TYPE 2 - 460 N/mm², STEEL FABRIC - 485 N/mm² (UNLESS OTHERWISE STATED).
- 4.2 THE MINIMUM YIELD STRENGTH OF STEEL REINFORCEMENT (WITH DENOTATION "R") SHALL BE 250N/mm².

5. ALL WATER RETAINING STRUCTURE OR WET AREAS SHALL BE APPLIED WITH APPROVED WATER PROOFING SYSTEM.

6. IF REQUIRED R.C LINTEL BEAM OF SIZES 150 X 200 REINFORCED WITH 2T12 (T&B) & R6 -150 LINKS SHALL BE PROVIDED TO ALL DOORS AND WINDOWS. STIFFENER, COLUMN SIZES 150X150 TO 200X200 REINFORCED WITH 4T12 & T10-150 LINKS SHALL BE PROVIDED IF REQUIRED. (FOR EG. ON WALL OF MORE THAN 3.5m IN HORIZONTAL LENGTH OR VERTICAL HEIGHT)

7. INCORPORATING OF M & E REQUIREMENTS IN STRUCTURAL DRAWINGS:
THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS INCORPORATING ALL M & E REQUIREMENTS, OPENINGS ETC INTO THE STRUCTURAL DRAWINGS AND OBTAIN THE PROJECT STRUCTURAL ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY FORM OF PERMANENT CONSTRUCTION WORKS. THE CONTRACTOR SHALL RESOLVE ALL DISCREPANCIES WITH ENGINEERS REGARDING M & E WORKS PRIOR TO CONCRETING.

8. NOTES FOR COMPACTION WORKS OF SUB-BASE AND SUB-GRADE.

1. ALL SUB-GRADE AND SUB-BASE LAYING WORKS SHALL BE WELL COMPACTED TO OVER 95% CBR.
2. MINIMUM OF FOUR NUMBER OF DRY FIELD DENSITY TESTS AND CBR TESTS SHALL BE CONDUCTED ON COMPACTED SUBGRADES AND SUB-BASE BEFORE CARRYING OUT ANY PERMANENT WORKS SUCH AS CONCRETING OF ACCESS ROAD, GARAGE NON-SUSPENDED FLOOR SLABS & HARD STANDINGS, ETC. THE TESTS RESULTS SHALL BE SUBMITTED TO CIVIL AND STRUCTURAL CONSULTANT ENGINEER FOR REVIEW AND APPROVAL TO PROCEED WITH PERMANENT WORKS (IF APPLICABLE BASIS ONLY).

9. REMOVAL OF FORMWORK

- A) THE TIME FOR THE REMOVAL OF FORMWORKS IS TO BE SUBJECTED TO ENGINEER'S APPROVAL, BUT THE FOLLOWING MAY BE TAKEN AS A GUIDE TO MINIMUM TIMES APPLICABLE UNDER NORMAL CIRCUMSTANCES:

SIDE OF COLUMNS/PIERS, WALLS AND BEAMS	3 DAYS
SOFFIT OF SLABS (PROPS LEFT UNDER)	14 DAYS
PROPS OF SLABS	28 DAYS
SOFFIT OF BEAMS (PROPS LEFT UNDER)	14 DAYS
PROPS TO SOFFIT OF BEAMS	28 DAYS

- B) SHUTTERING AND CENTERING SHALL BE REMOVED BY GRADUAL EASING WITHOUT JARRING, AND ONLY IN THE PRESENCE OF A COMPETENT SUPERVISER. BEFORE REMOVAL OF THE SHUTTERING, THE CONCRETE SHALL BE EXAMINED, AND REMOVAL SHALL PROCEED ONLY IF THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ITS OWN WEIGHT AND ANY CONSTRUCTIONAL OR OTHER LOADS LIKELY TO COME UPON IT. IF ANY LOADING IN EXCESS OF THE DESIGN LOAD IS ANTICIPATED, APPROVED PROPS SHALL BE PROVIDED AFTER REMOVAL OF SHUTTERING.
- C) TO ENSURE THAT THE CONSTRUCTIONAL LOADS OF A FLOOR ARE SHARED BY AT LEAST TWO FLOORS BELOW IT, THE PROPS TO THE BEAMS AND SLABS OF A FLOOR SHALL NOT BE REMOVED UNTIL THE FLOOR ABOVE THE FLOOR IN QUESTION, IS STRONG ENOUGH TO SUPPORT ITSELF.

10. GENERAL NOTES FOR PILING WORKS

1. ALL PILES TO BE USED FOR THIS PROJECT SHALL BE OF BRUNEI DARUSSALAM MINISTRY OF DEVELOPMENT'S APPROVED TYPES AND BRAND NAMES OR AS PER S.O.'S APPROVAL.
2. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, BEFORE ANY PILING WORK IS STARTED, DETAILS OF :-
- PILE DRIVER INCLUDING SIZE OF HAMMER AND DROP.
- CONTRACTOR'S CALCULATIONS OF SETS, CALCULATED USING THE HILEY FORMULA.
- PROPOSED PROGRAM AND SEQUENCE OF PILE DRIVING INCLUDING TEST PILES.
3. NO PILING SHALL COMMENCE UNTIL THE SET VALUES SUBMITTED BY THE CONTRACTOR ARE APPROVED IN WRITING BY THE ENGINEER.
4. THE CALCULATED SETS SHALL ONLY BE USED AS A GUIDE FOR DRIVING AND THE SET SHALL BE CONFIRMED BY THE IN-SITU PILE TEST.
5. HOWEVER, PILE HYDRAULIC JACKING TO TWICE THE SAFE WORKING LOAD (MINIMUM) SHALL BE USED IF PILE HAMMERING ACTIVITIES CAUSES DISTURBANCES AND DISTRESS (EXCESSIVE VIBRATIONS) TO SURROUNDING BUILDINGS

11. GENERAL NOTES FOR R.C PILES

R.C PILES

1. ALL REINFORCED CONCRETE (R.C.) PRECAST PILES SHALL BE 150MM X 150MM REINFORCED CONCRETE PRECAST PILES OR AS PER SPECIFIED IN THE DRAWINGS.
2. CONCRETE GRADE SHALL BE GRADE 45 MINIMUM FOR NORMAL R.C. PRECAST PILES.
3. THE ALLOWABLE SAFE BEARING CAPACITY OF EACH R.C. PRECAST PILES POINT SHALL BE 25 TONNES.
4. THE EXPECTED PENETRATION DEPTH OF EACH PILE POINT IS 6 TO 15 METRES. THIS IS TO BE CONFIRMED DURING PILE DRIVING WORKS. (UNTIL PILE SET IS ACHIEVED UNLESS OTHERWISE STATED)
5. THE PILE SET SHOULD BE ACHIEVED WITH THE LAST 10 BLOWS FOR LESS THAN 20mm PENETRATION (PILE HAMMER OF ABOUT ONE TONNE WITH HAMMER DROP OF ABOUT 600mm TO ONE METRE)
6. ALL WELDING WORKS FOR JOINING OF PILES SHALL BE CARRIED OUT BY QUALIFIED LICENSED WELDERS.
7. IF ANY OF THE PILE POINTS DOES NOT PENETRATE 6 METRES DEEP INTO THE GROUND (IF PILE SET IS ACHIEVED AT LESS THAN 6 METRES PENETRATION LENGTH), THE CLIENT OR CONTRACTOR SHALL REPORT TO THE C&S CONSULTANT FOR REDESIGN REQUIREMENT OF THE PILE FOUNDATION.

11a. MILD STEEL TUBULAR PILING

- 11a.1 ALL PILES SHALL BE GRADE 43 SEAMLESS MS TUBES 114.3mm \varnothing x 6.3mm THICK TO B.S. 4848 PART II WITH AN ULTIMATE LOAD CAPACITY OF NOT LESS THAN 240KN.
- 11a.2 ALL PILING WORK SHALL BE CARRIED OUT IN ACCORDANCE TO THE GENERAL SPECIFICATION AS SHOWN IN SPECIFICATION OF MATERIALS AND WORKMANSHIP.

12. NOTES FOR PAD FOOTING

1. ALL PAD FOOTING CONSTRUCTION SHALL BE REFERRED TO THE PAD FOOTING LAYOUT PLAN N AND DETAILS
2. THE DESIGN IS BASED UPON THE GROUND BEARING CAPACITY AT ABOUT 2.0 METRES BELOW EXISTING GROUND LEVEL TO BE 150kN/m²
3. CONCRETE GRADE 30 SHALL BE USED FOR ALL PAD FOOTING WORKS

13. NOTES FOR BAKAU PILING

1. WITH A 1/2 TONNE HAMMER AND DROP OF 900mm, THE FINAL SET SHOULD NOT BE MORE THAN 75/10 BLOWS OR THE SET TO BE FINALISED BY THE ENGINEER DURING THE TEST PILING.
2. ALL BAKAU PILES SHOULD BE NOT LESS THAN 75mm \varnothing (ON AVERAGE), ALL PILES CUT-OFF SHALL BE AT THE LOWEST WATER LEVEL. EXACT LEVEL TO BE DETERMINED ON SITE BY THE ENGINEER.
3. IF PILE REQUIRED TO BE SPliced TOGETHER, A TUBULAR SPlice WITH A HEAVY PIPE 90mm \varnothing x 600mm LONG x 6mm THICK SHOULD BE USED AT LEAST 4 HOLES SHALL BE PROVIDED IN THE PIPE FOR DRIVING 65mm LONG NAILS SPIKE INTO THE PILE.
4. ACTUAL SPACING OF BAKAU PILES TO BE DECIDED ON SITE.

14. NOTES FOR SAFETY OF EXISTING UNDER GROUND SERVICES

1. MAIN CONTRACTOR TO CARRY OUT PILOT TRENCHING (ADEQUATE GROUND INVESTIGATION) BEFORE CARRYING OUT ANY EXCAVATION WORKS FOR DRAINAGE WORKS, PILING WOKS AND OTHER WORKS THAT MAY AFFECT THE BURIED (UNDER GROUND) EXISTING SERVICES/UTILITIES SUCH AS ELECTRICAL CABLES, FIBRE OPTIC CABLES, TELECOM CABLES, WATER PIPES. .THIS IS IMPORTANT TO PREVENT ANY DAMAGE TO SUCH SERVICES /UTILITIES SAFETY THREAT TO ALL STATEHOLDERS.

15. NOTES FOR WATERPROOFING WORKS :

1. ALL INTERNAL OR EXTERNAL SURFACES OF WATER RETAINING STRUCTURE OR WET AREAS SUCH AS TOILETS, RC ROOF SLABS, RC GUTTERS, M&E ROOMS AND KITCHENS SHALL BE WATERPROOFED WITH APPROVED WATERPROOFING SYSTEM.
2. ALL WATERPROOFING WORKS SHALL BE CARRIED OUT BY MANUFACTURER'S APPROVED INSTALLER/APPLICATOR AND SHALL BE APPLIED IN STRICT ACCORDANCE TO THE MANUFACTURER'S APPROVED PROCEDURES OR AS PER ENGINEER'S APPROVAL.
3. SUFFICIENT CURING TIME SHALL BE ALLOWED BEFORE INSTALLATION OF ANY PROTECTIVE SCREED OR ARCHITECTURAL FINISHES.
4. WATERPROOFING SYSTEMS THAT HAS BEEN APPROVED FOR INSTALLATION SHALL CARRY A 10 YEAR WARRANTY PERIOD BY THE MANUFACTURER OR BY THE MANUFACTURER'S REPRESENTATIVES OR BY THE APPROVED LOCAL DISTRIBUTOR/APPLICATOR.

16. GENERAL NOTES FOR ANY STRUCTURAL STEEL WORKS

1. MAIN CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL WORKS FOR STRUCTURAL ENGINEER'S APPROVAL BEFORE ORDERING, PURCHASING, FABRICATING AND ERECTING ANY STEEL STRUCTURAL WORKS.
2. PROPOSED CONNECTION DETAILS TO BE PROVIDED IN THE STRUCTURAL SHOP DRAWINGS FOR STRUCTURAL ENGINEER'S APPROVAL.
3. ALL STEEL SECTION MEMBERS SHALL BE SAND BLASTED BEFORE APPLYING ANY APPROVED ANTI-CORROSION COATING SYSTEM.
4. ALL WELDING WORKS SHALL BE CARRIED OUT BY QUALIFIED LICENSED WELDERS.

17. NOTES FOR TURFING :

1. ALL TURFS SHALL BE 225MM SQUARE FROM AN APPROVED SOURCE FREE FROM LALLANG AND OTHER WEEDS.
2. BLACK EARTH OF 50MM THICKNESS SHALL BE SPREAD ON TO THE GROUND WHERE TURFING IS TO BE DONE.
3. SPOT TURFING SHALL BE LAID AT 300MM CENTRES.
4. CLOSED TURFING TO BANKS SHALL BE PEGGED IN PLACE WITH 25MM DIAMETER PEGS 225MM LONG.
5. ALL TURFING SHALL BE WATERED UNTIL SATISFACTORILY ESTABLISHED AND ALL TURFING THAT HAS BECOME DEFECTIVE WITHIN SIX MONTHS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. DURING THE PERIOD OF THE WORKS AND MAINTENANCE, THE CONTRACTOR SHALL KEEP ALL TURFED AREAS WATERED, MOWN OR CUT AND CLEARED OF GRASS CUTTING TO THE SATISFACTION OF THE ENGINEER. THE FIRST CUT SHALL BE MADE WHEN THE GRASS IS 100MM HIGH, FOLLOWED BY REGULAR CUTTING SO THAT THE VEGETATION AT NO TIME EXCEEDS 150MM IN HEIGHT.

18. DRAWING NOTE:

1. ALL STRUCTURAL DRAWING ARE DRAWN TO APPROXIMATE SCALE. ANY DISCREPANCY IN STRUCTURAL DRAWING DIMENSIONS, EXACT DIMENSION SHALL BE REFERRED TO STRUCTURAL ENGINEER.

19. GENERAL NOTES FOR FLOOR HARDENER REQUIREMENTS:

1. ALL CONCRETE SLAB SURFACES WHICH ARE NOT COVERED WITH HEAVY DUTY DECORATIVE TILES AND TO BE USED AS CAR PARKS OR ACCESS ROADS (FOR SELECTED AREAS) SHALL BE APPLIED WITH SUITABLE FLOOR HARDENERS SYSTEM (TO INCLUDE POWER FLOAT TROWELLING IF APPLICABLE)

20. GENERAL NOTES FOR BRICKWALL WORKS:

1. ALL BRICKS TO BE USED SHALL BE REGULAR IN SIZE AND APPROVED BY ABCI
2. REINFORCED CONCRETE STIFFENERS (100x100 WITH APPROPRIATE REINFORCEMENTS) SHALL BE PROVIDED AT EVERY INTERVAL OF 3.5m OF BRICK WORK LENGTH

21. NOTES FOR WORKPLACE SAFETY, HEALTH AND ENVIRONMENT COMPLIANCE & INSURANCES & TEMPORARY WORKS:

1. MAIN CONTRACTOR SHALL ENSURE TO COMPLY FULLY WITH ALL PREVAILING RULES, REGULATIONS AND LAWS OF NEGARA BRUNEI DARUSSALAM ON WORKPLACE SAFETY, HEALTH AND ENVIRONMENTAL ASPECTS THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD AND DEFECTS LIABILITY PERIOD
2. MAIN CONTRACTOR SHALL ENSURE THAT ALL APPLICABLE INSURANCES ARE VALID THROUGHOUT THE CONSTRUCTION PERIOD AND DEFECTS LIABILITY PERIOD SUCH AS CONTRACTOR'S ALL RISK INSURANCE OR OTHERS SUCH AS WORKMEN COMPENSATION INSURANCE POLICY, PUBLIC LIABILITY INSURANCE POLICY AND FIRE INSURANCE POLICY (WHICHEVER IS APPLICABLE AS PER SUPERINTENDING OFFICERS INSTRUCTIONS)
3. MAIN CONTRACTOR SHALL EMPLOY INDEPENDENT CONSULTANT TO CARRY OUT DESIGN WORKS FOR ALL TEMPORARY WORKS AND THAT SUCH TEMPORARY WORKS DESIGN REQUIREMENT ARE FULLY COMPLIED DURING ITS EXECUTION

22. NOTES FOR ROOF TRUSSES:

1. ROOF TRUSSES SHALL BE LIGHTWEIGHT PROPRIETARY SYSTEM SUCH AS LYSAGTH SMART TRUSS SYSTEM OR APPROVED TECHNICAL EQUIVALENT SHALL BE DESIGNED BY MANUFACTURER COMPANY.
2. THE INSTALLATION WORKS SHALL BE CARRIED OUT BY MANUFACTURER'S APPROVED INSTALLER.



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CLIENT:

DESIGNED BY

THAN ZAW TUN

SCALE:

N.T.S

TITLE:

GENERAL NOTES (OPTION 2)

JOB NO:

SHEET NO:

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

DRAWING NO:

SBC/Q366/AF/LQ/5PO2/RC/G -100

REV:

NO.

AMENDMENTS

BY

DATE

APPROVED BY

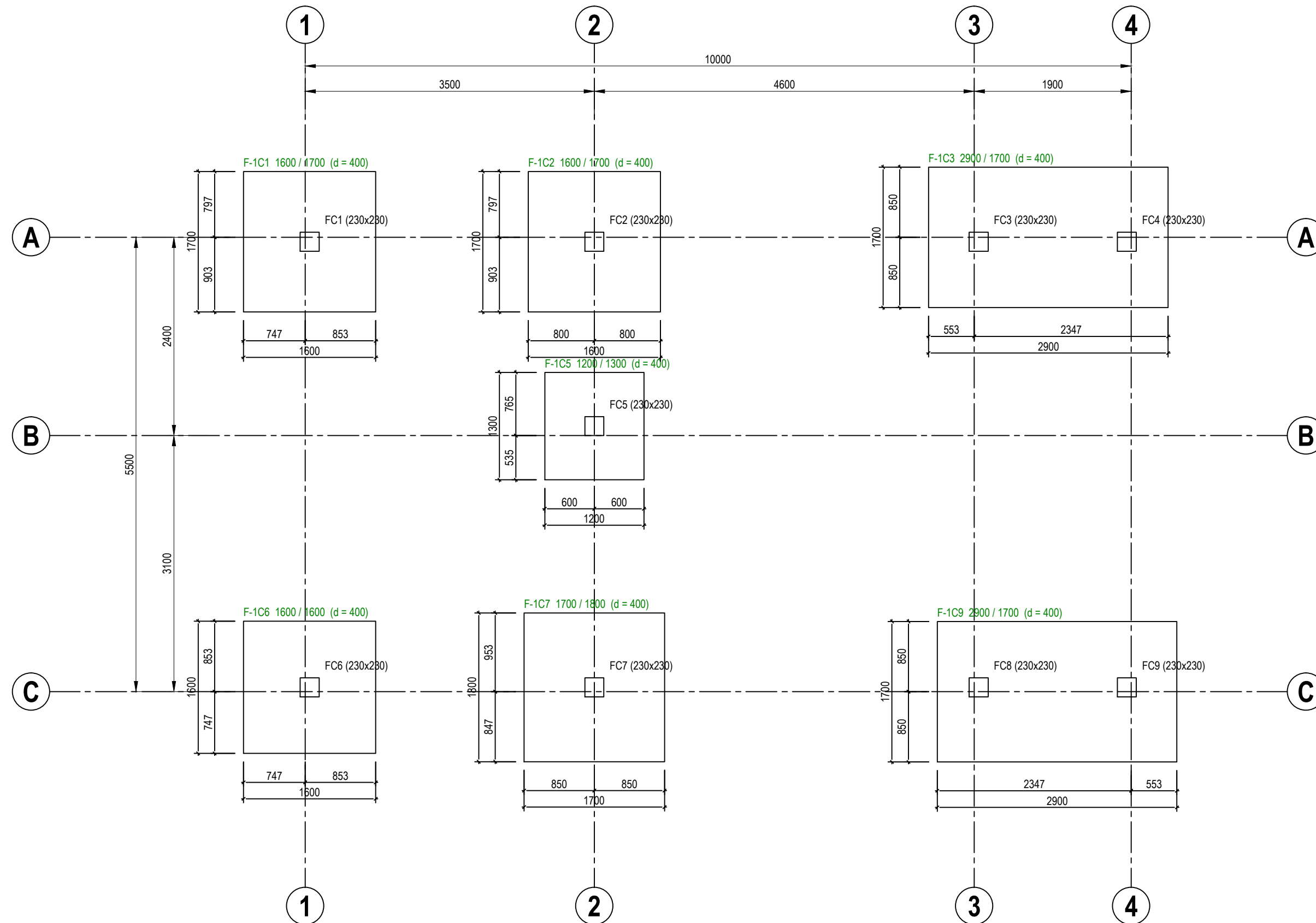
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Unit 14,
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Gadong Central,
Spg. 21, Gadong
★ ★
SERI BUMI



PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 KN/m²]

SCALE 1 : 75



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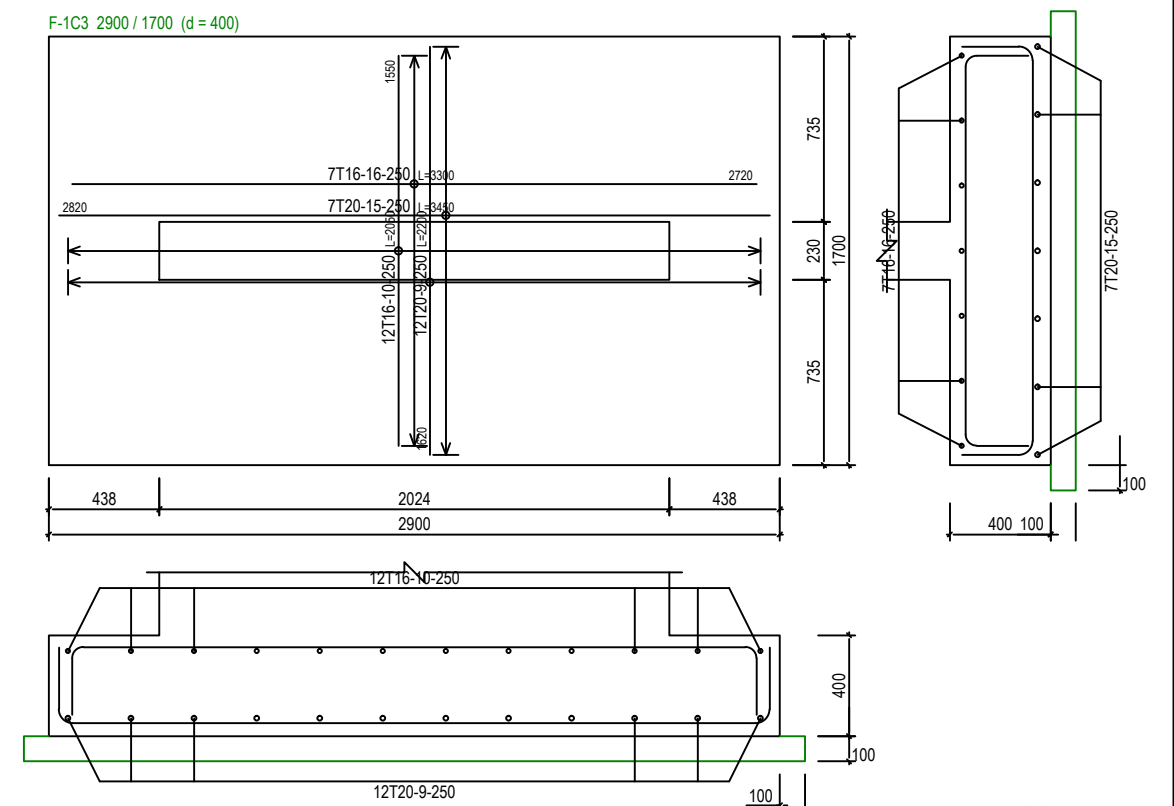
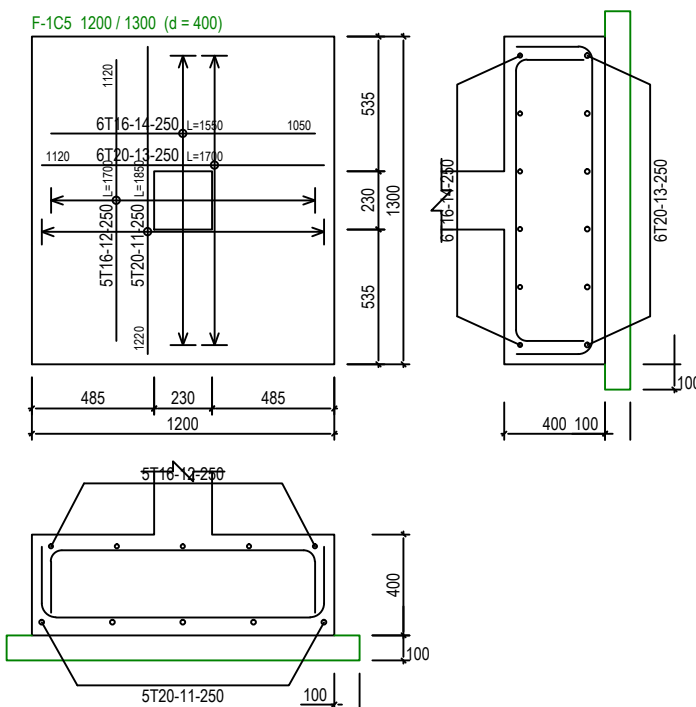
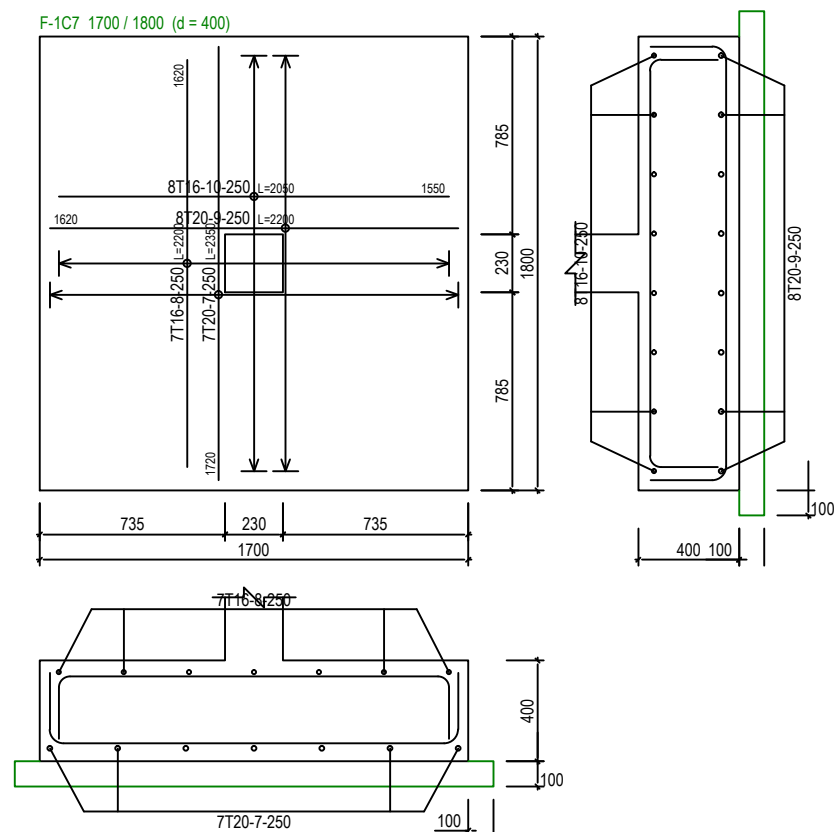
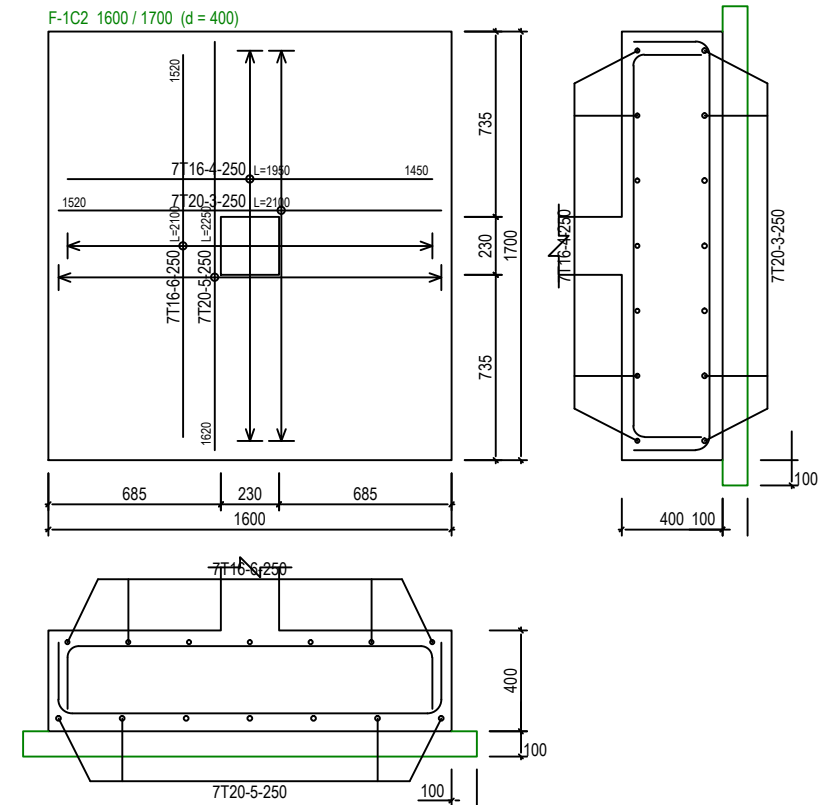
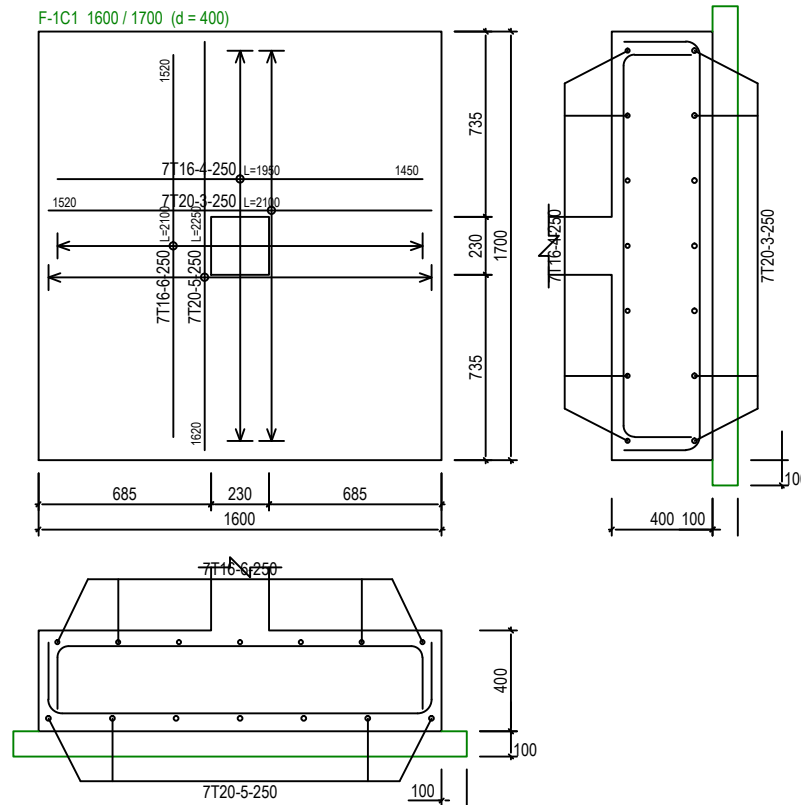
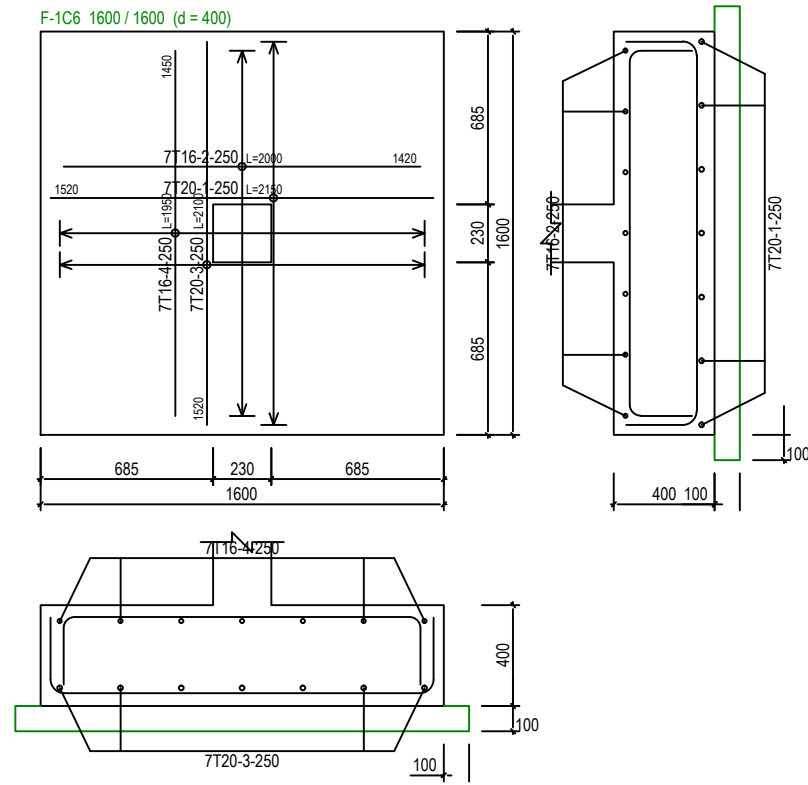
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:
1:50

TITLE:
PAD FOOTING FOUNDATION LAYOUT PLAN (OPTION 2)
[ALLOWABLE STRESS OF SOIL 100KN/m²]
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/RC/CS -101
REV:	



PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 100 KN/m²]

SCALE 1:30



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NO.	AMENDMENTS	BY	DATE

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DATE

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PAD FOOTING DETAILS - 1 (OPTION 2)
[ALLOWABLE STRESS OF SOIL 100KN/m²]

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:

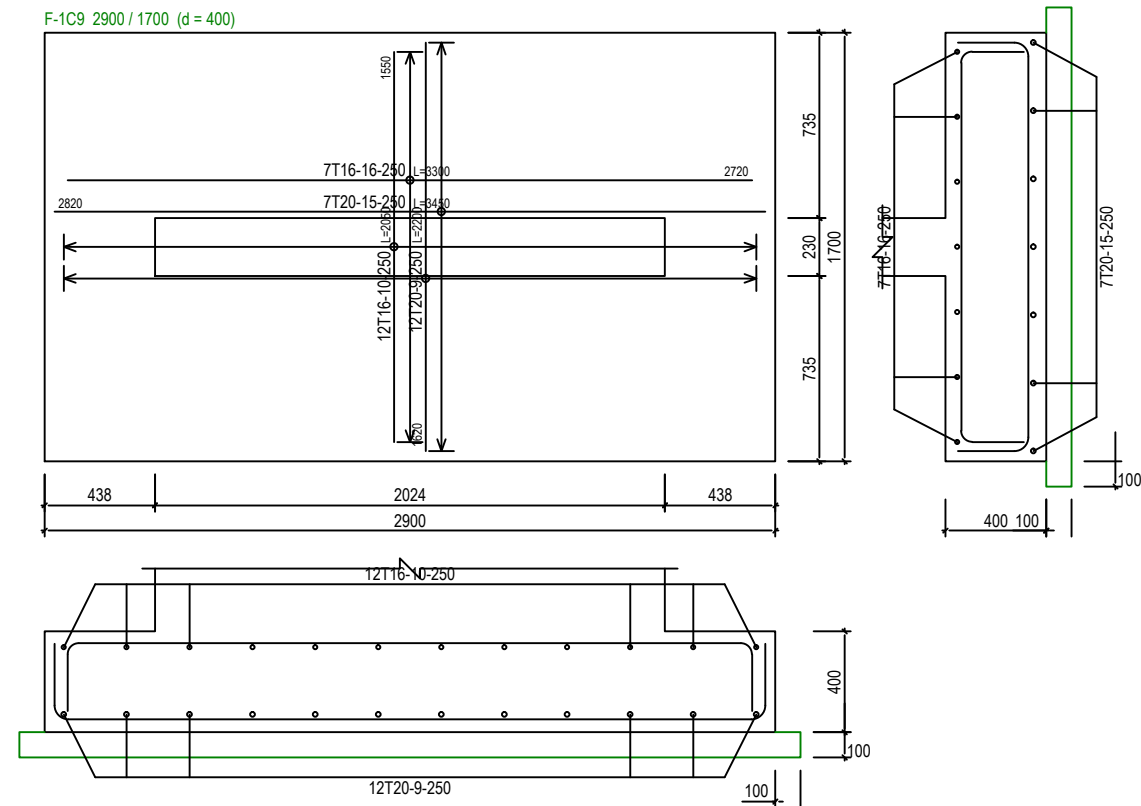
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PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 100 KN/m²]

SCALE 1:30



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TITLE:

PAD FOOTING DETAILS - 2 (OPTION 2)
[ALLOWABLE STRESS OF SOIL 100KN/m²]

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

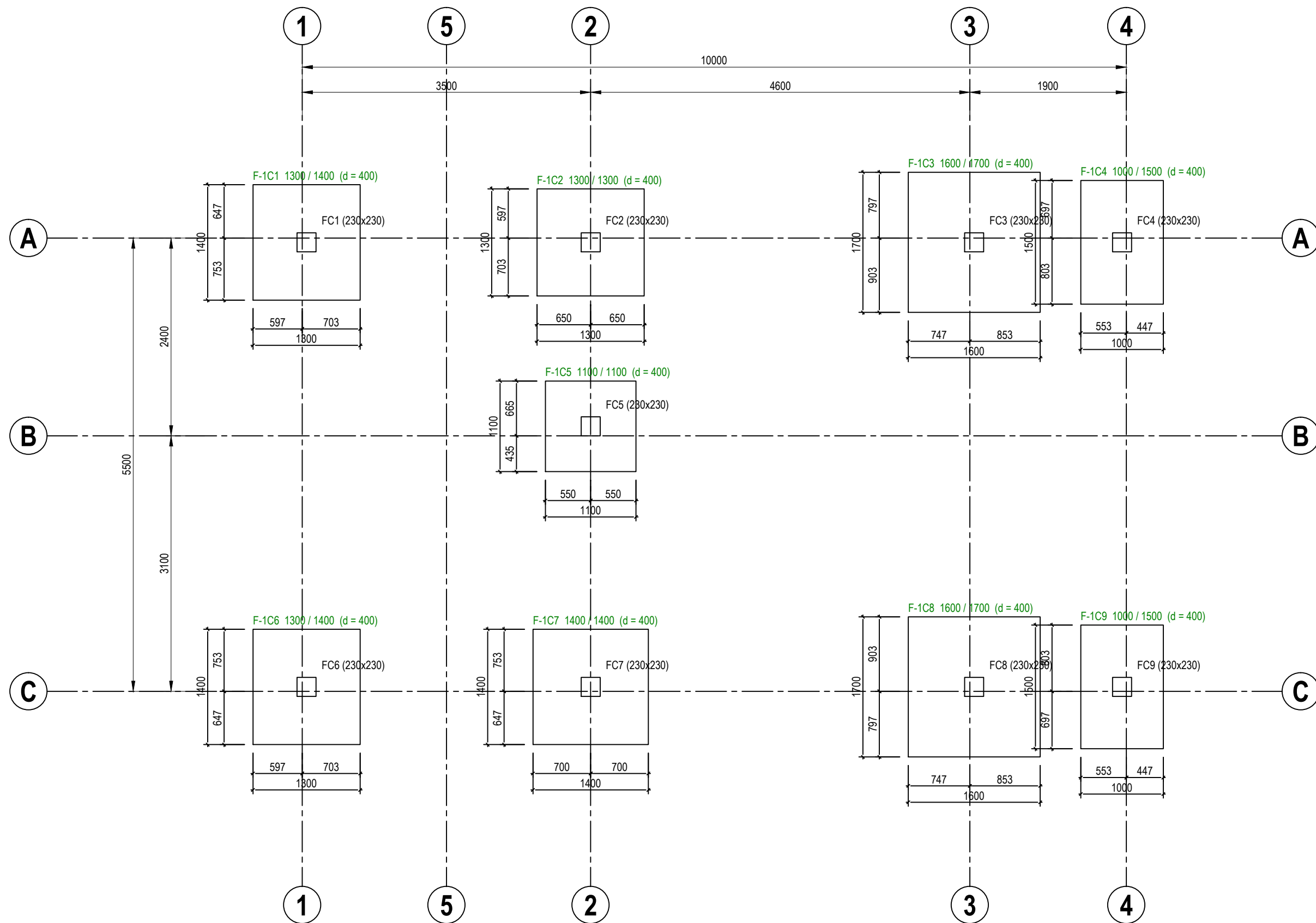
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DRAWING NO:

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PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 KN/m²]

SCALE 1 : 75



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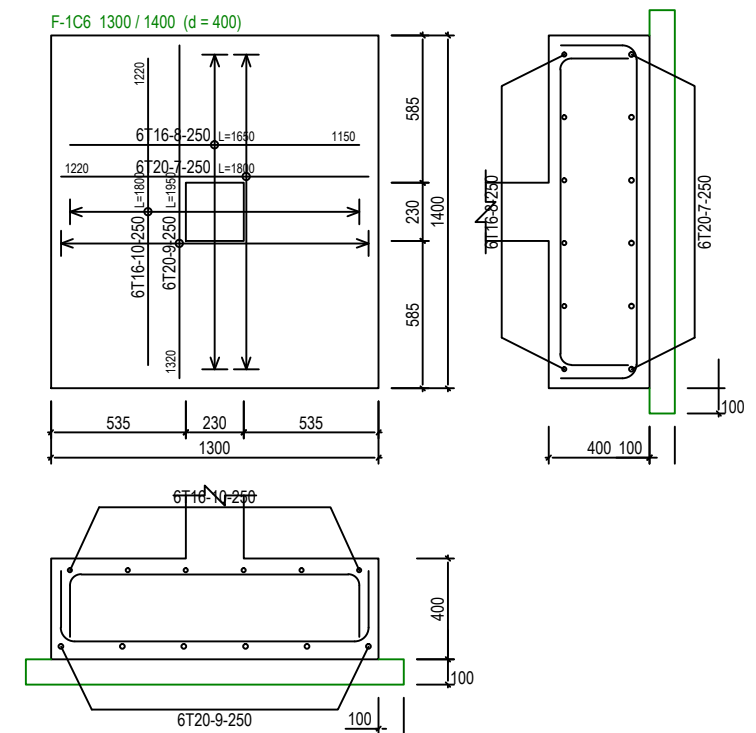
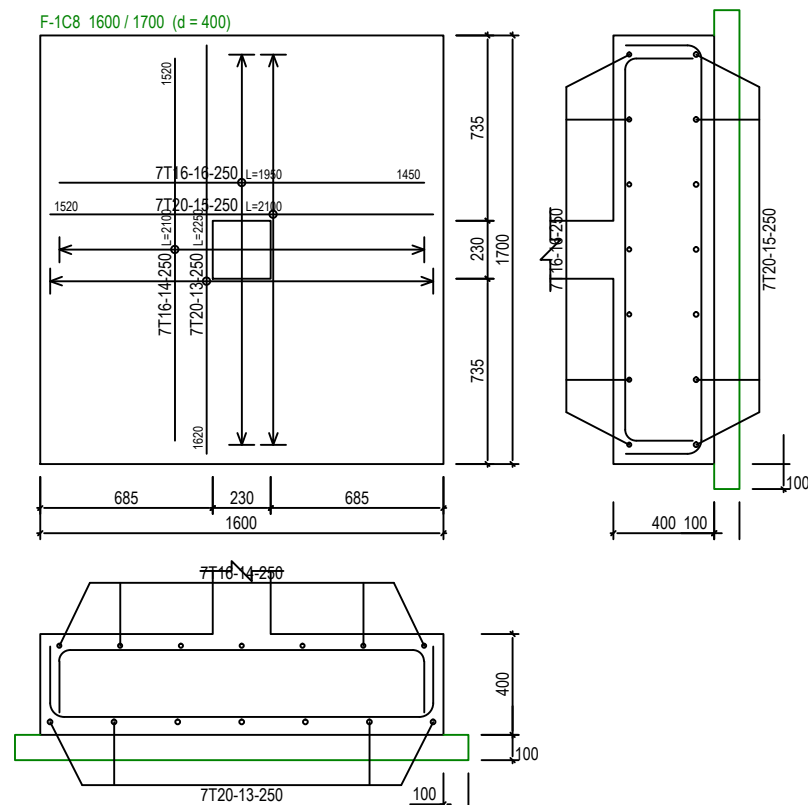
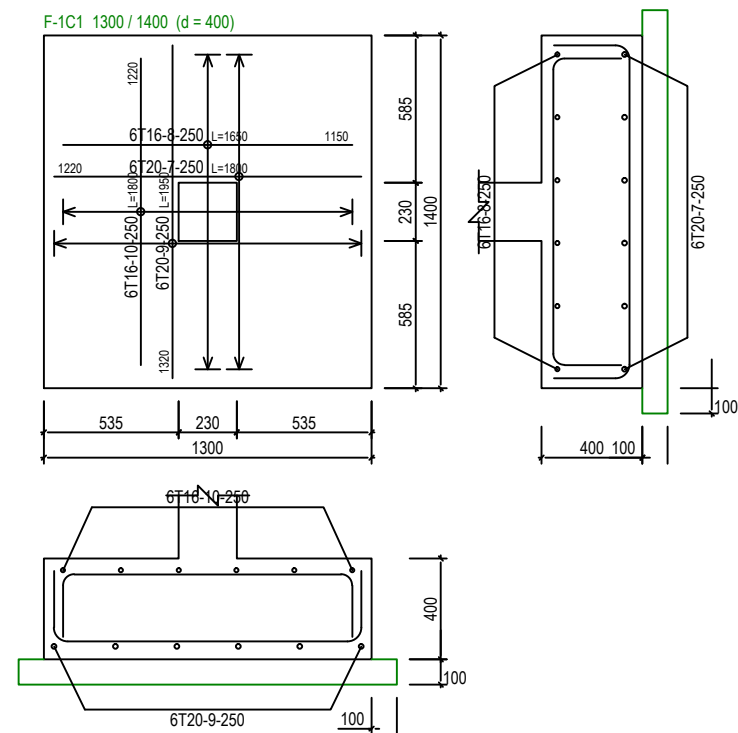
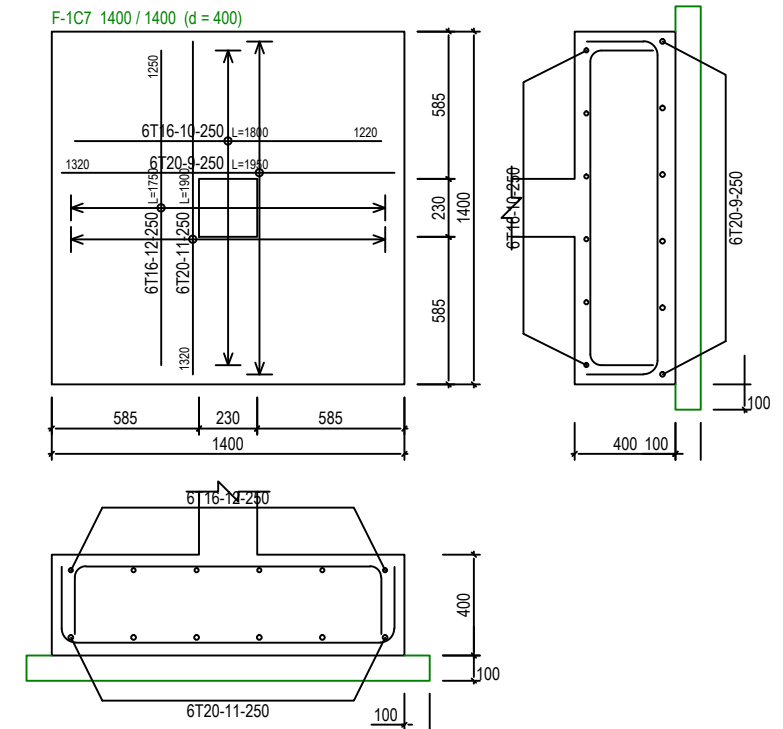
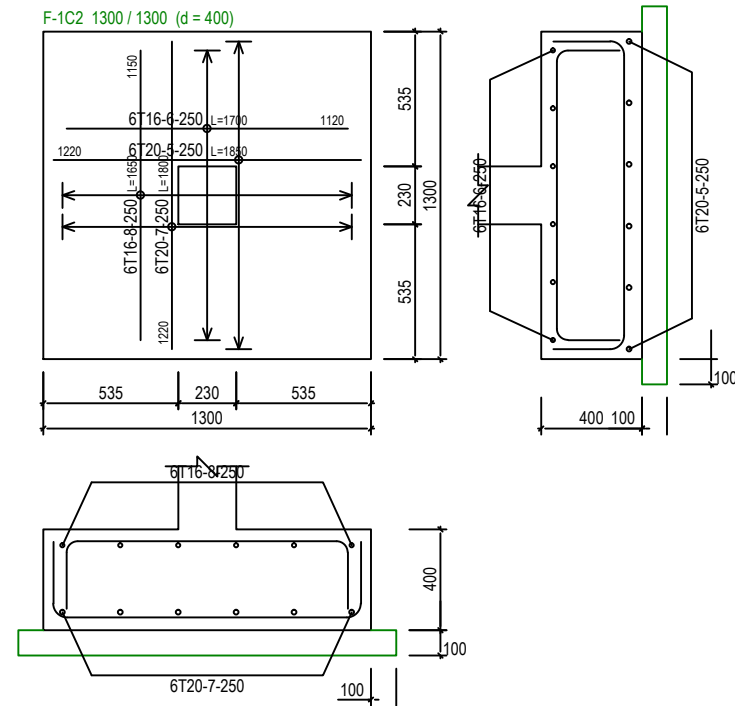
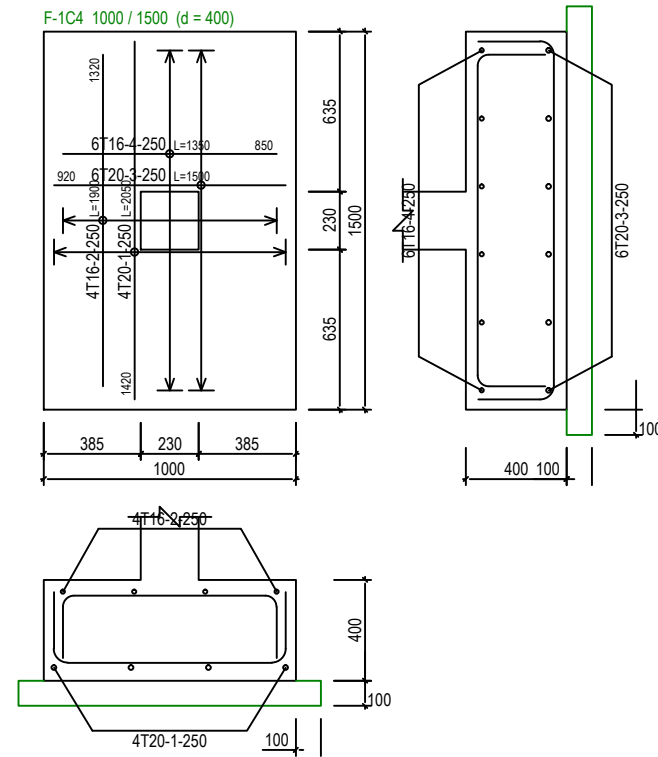
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DATE	13/09/2022

SCALE:
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TITLE:
PAD FOOTING FOUNDATION LAYOUT PLAN (OPTION 2)
[ALLOWABLE STRESS OF SOIL 150KN/m²]
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:
SHEET NO:
DRAWING NO:
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REV:



PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 150 KN/m²]

SCALE 1:30



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NO.	AMENDMENTS	BY	DATE

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APPROVED BY	DATE 13/09/2022

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TITLE:
 PAD FOOTING DETAILS - 1 (OPTION 2)
 [ALLOWABLE STRESS OF SOIL 150KN/m²]

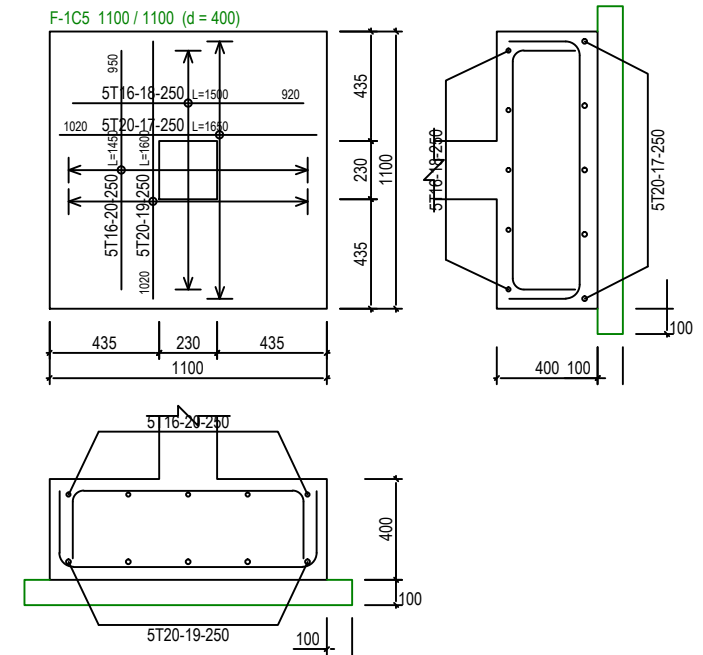
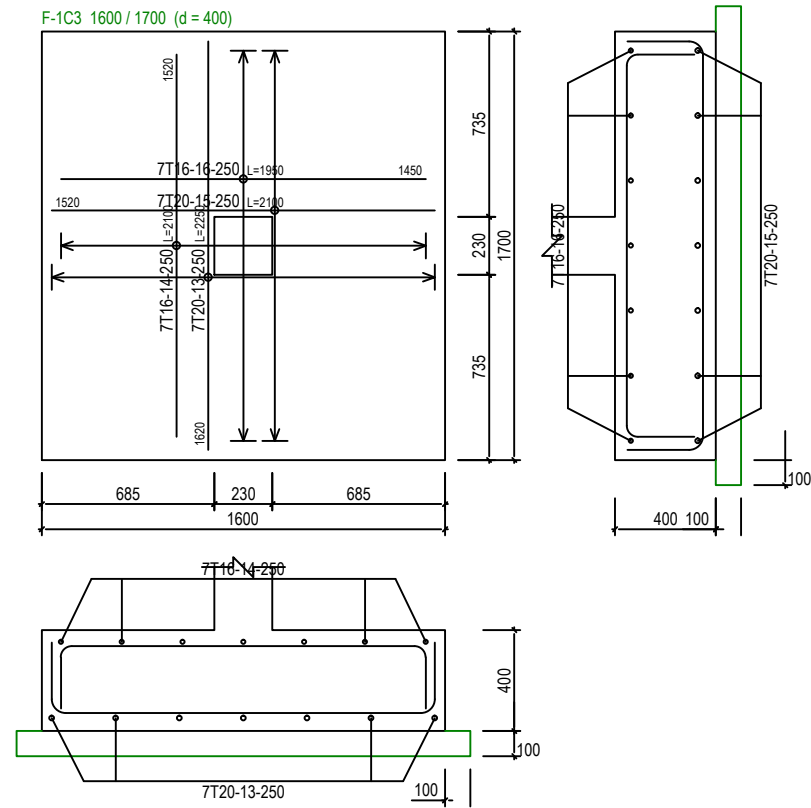
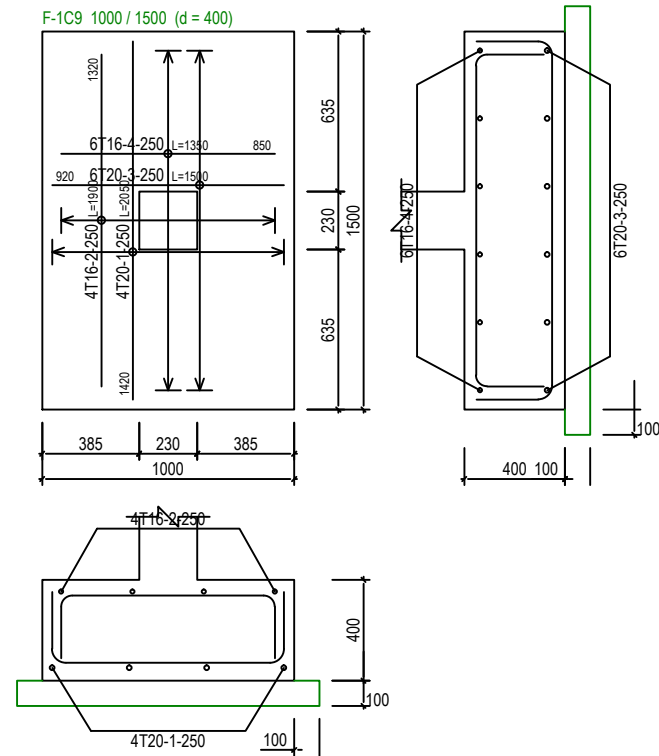
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 PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
 BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:

SHEET NO:

DRAWING NO:
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REV:



PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 150 KN/m²]

SCALE 1:30



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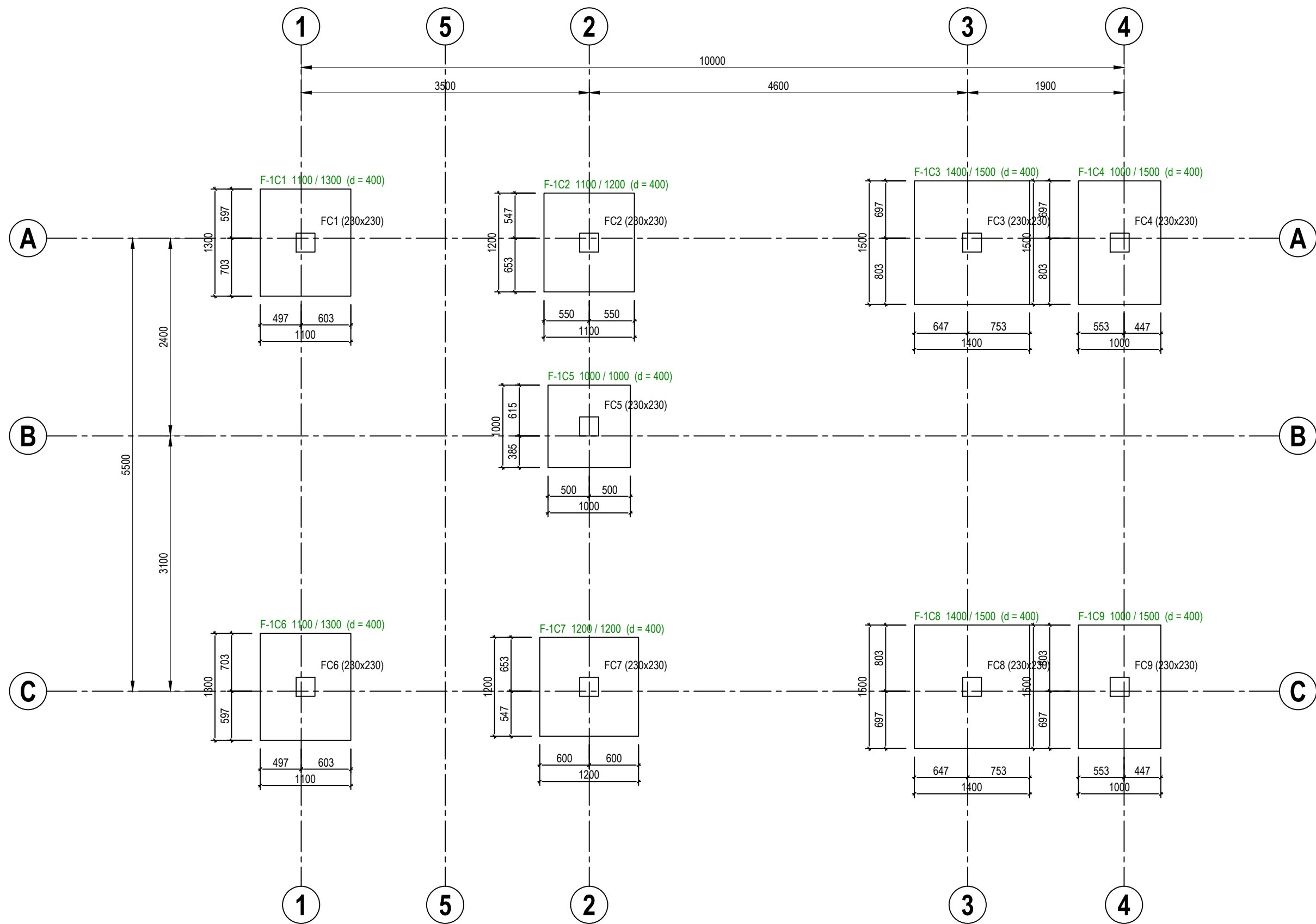
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DATE	13/09/2022

SCALE:
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TITLE:
PAD FOOTING DETAILS - 2 (OPTION 2)
[ALLOWABLE STRESS OF SOIL 150KN/m²]
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:
SHEET NO:
DRAWING NO:
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PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 KN/m²]
SCALE 1 : 75



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13/09/2022

SCALE:

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TITLE:

PAD FOOTING FOUNDATION LAYOUT PLAN (OPTION 2)
[ALLOWABLE STRESS OF SOIL 200KN/m²]

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:

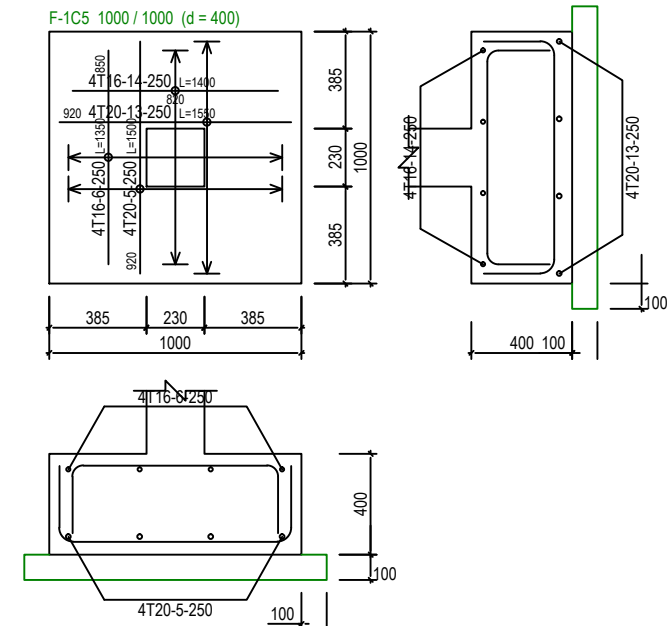
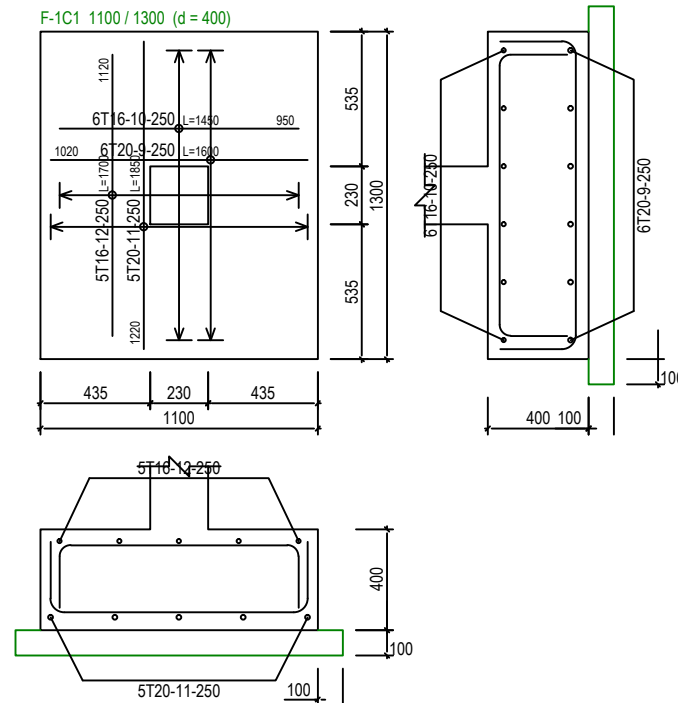
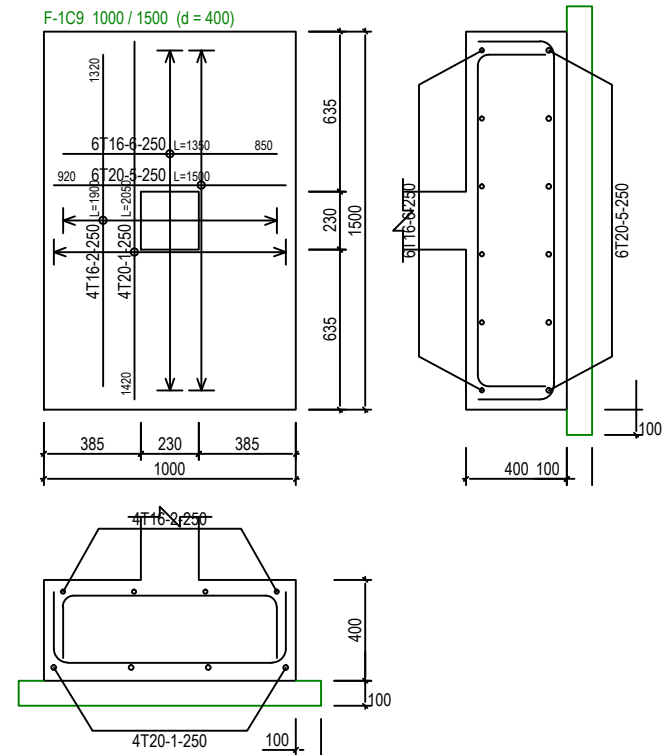
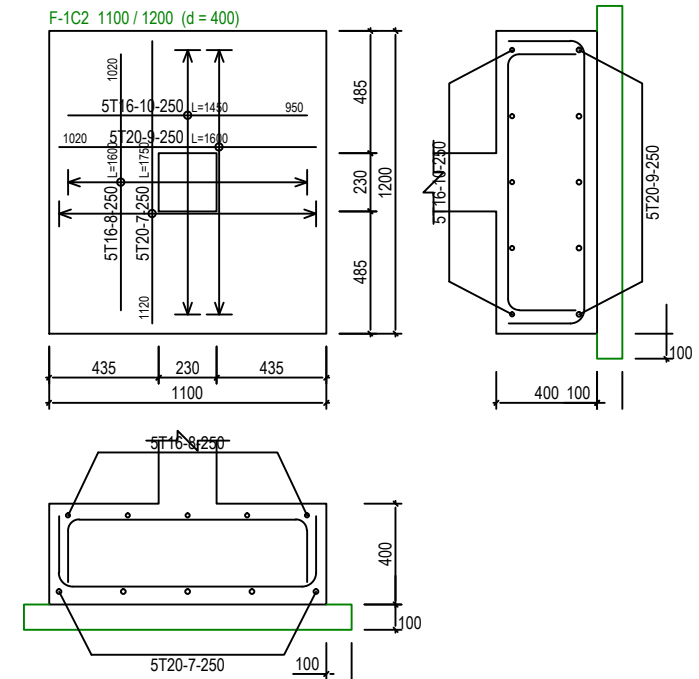
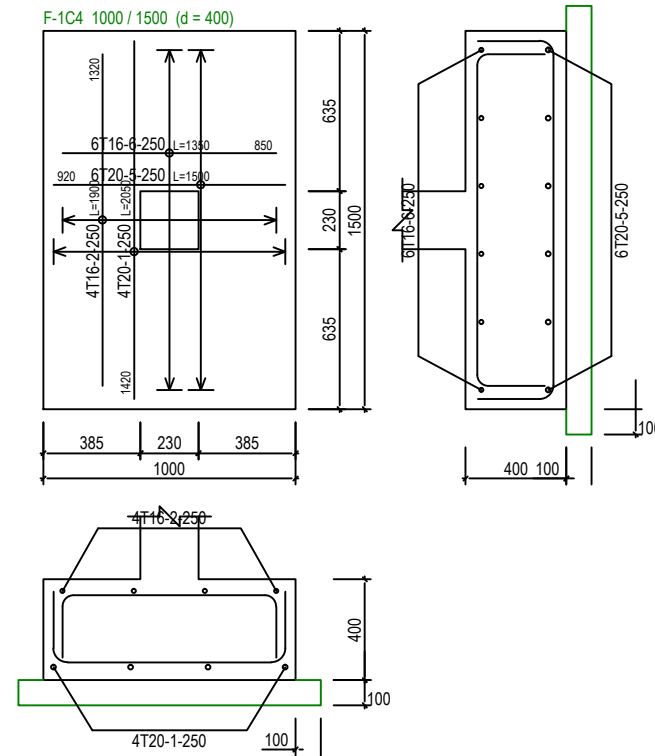
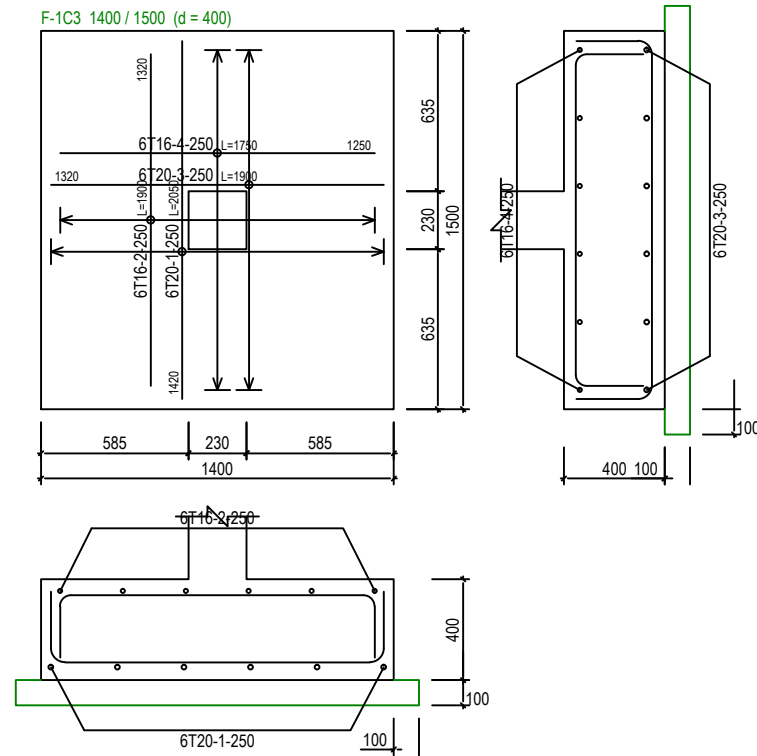
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REV:





PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 200 KN/m²] SCALE 1:30



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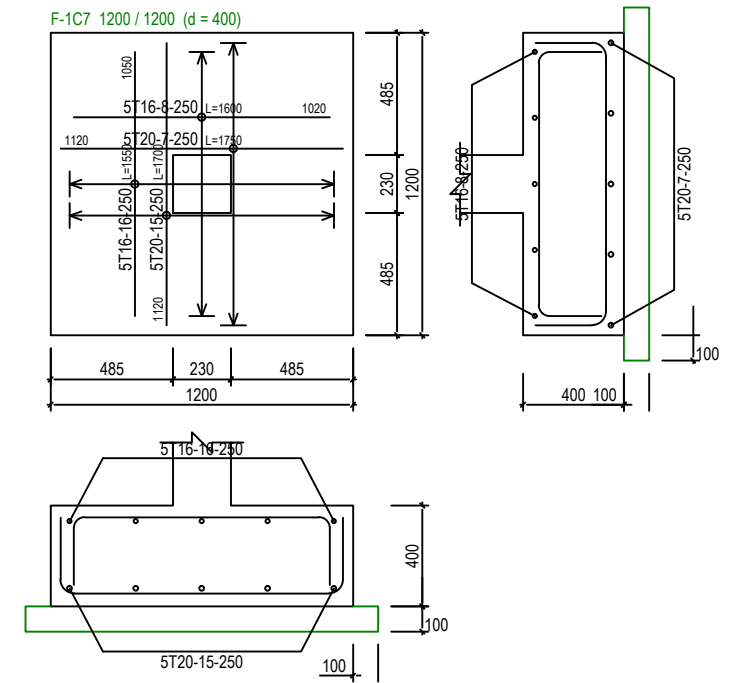
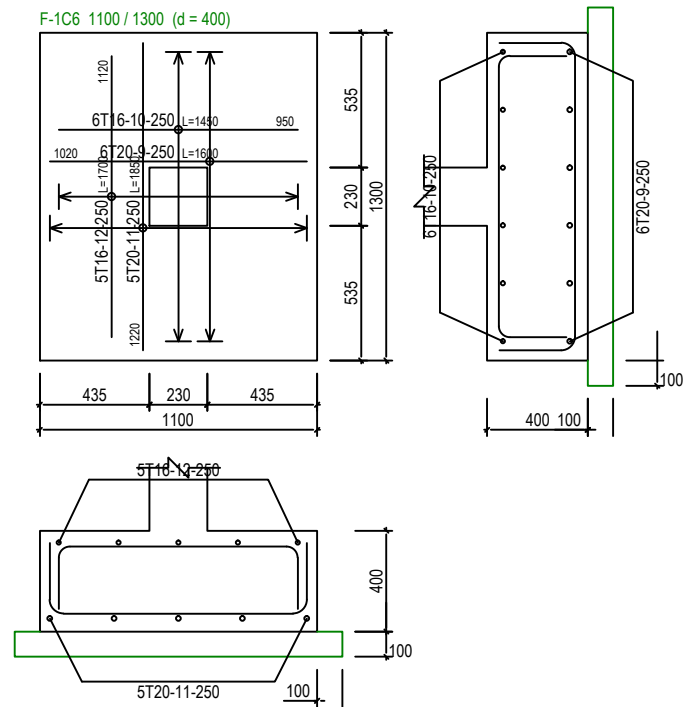
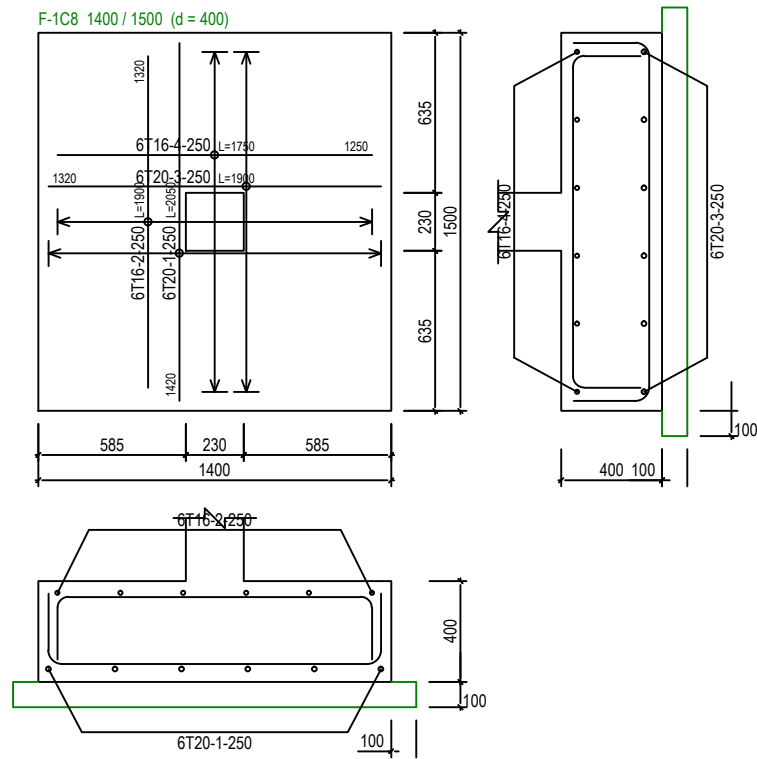
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DESIGNED BY	THAN ZAW TUN
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CHECKED BY	MD. YUNUS
APPROVED BY	DATE 13/09/2022

SCALE:
1:30

TITLE:
PAD FOOTING DETAILS - 1 (OPTION 2)
[ALLOWABLE STRESS OF SOIL 200KN/m²]
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/RC/CS -103A
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PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 200 KN/m²]

SCALE 1:30



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SCALE:
1:30


TITLE:
PAD FOOTING DETAILS - 1 (OPTION 2)
[ALLOWABLE STRESS OF SOIL 200KN/m²]
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/RC/CS -103B
REV:	

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St: 2 (+4.00m)	C-2	C-3	C-4
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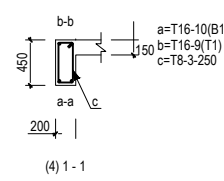
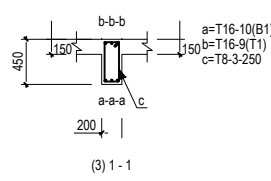
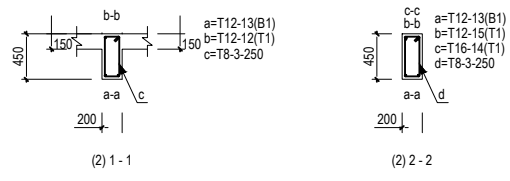
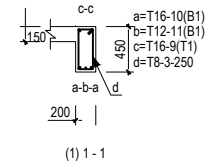
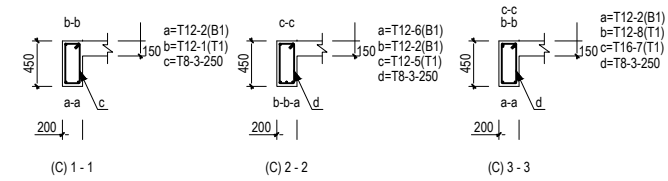
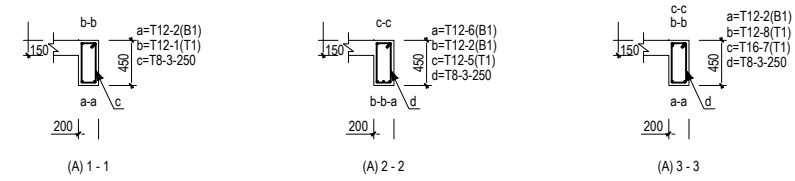
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NO.	AMENDMENTS	BY	DATE	

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DRAWN BY	SAI	
CHECKED BY	MD. YUNUS	
APPROVED BY	<div>DATE</div> <div>13/09/2022</div>	

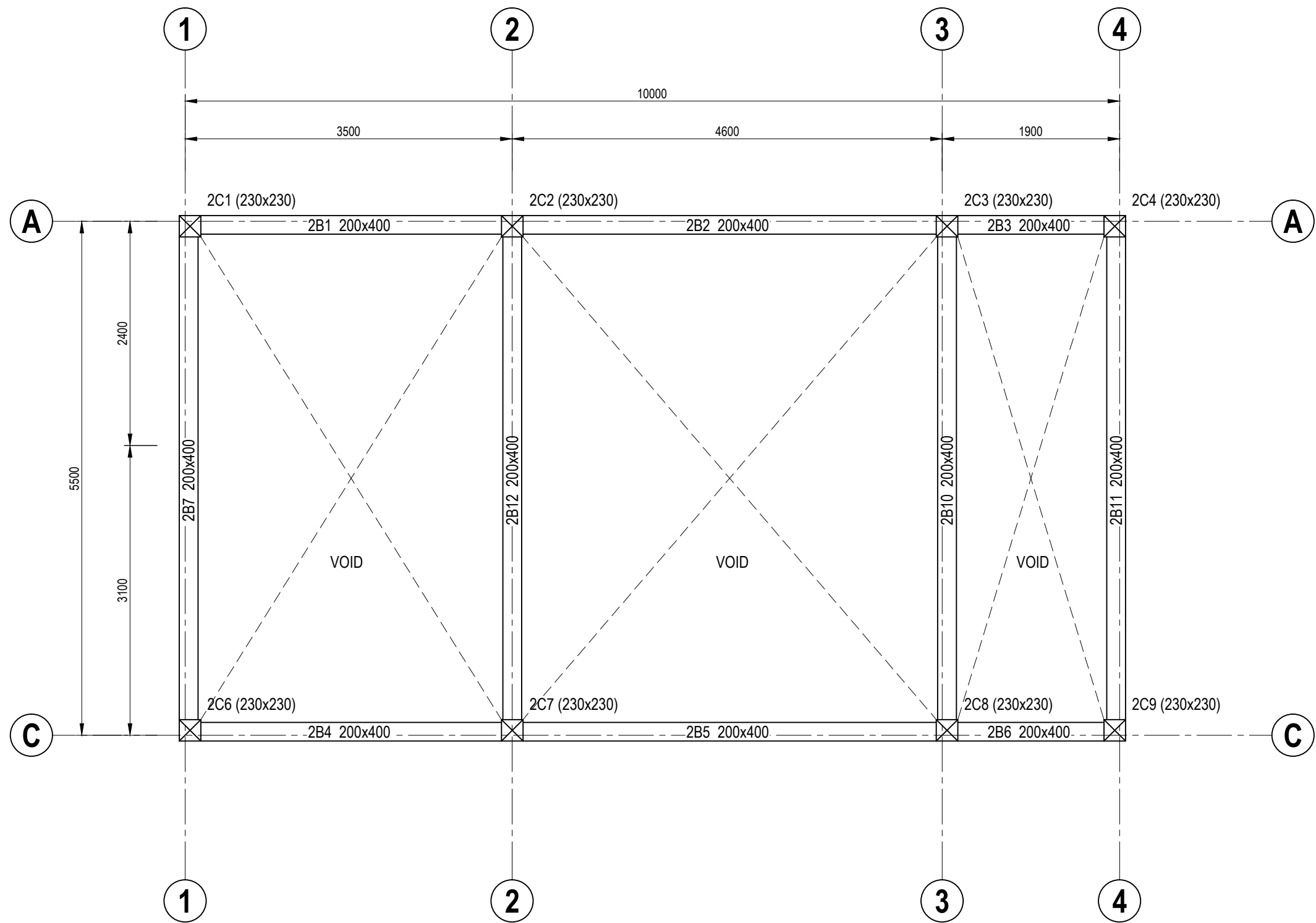
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PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2	<div>SHEET NO:</div> <div>DRAWING NO: SBC/Q366/AFLQ/5PO2/RC/CS - 104</div> <div>REV:</div>





JOB NO:	
SHEET NO:	
DRAWING NO:	REV:
SBC/Q366/AFLQ/5PO2/RC/CS - 201	





ROOF BEAM LAYOUT PLAN [OPTION 2]
SCALE 1 : 50



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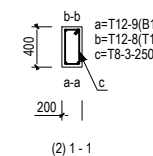
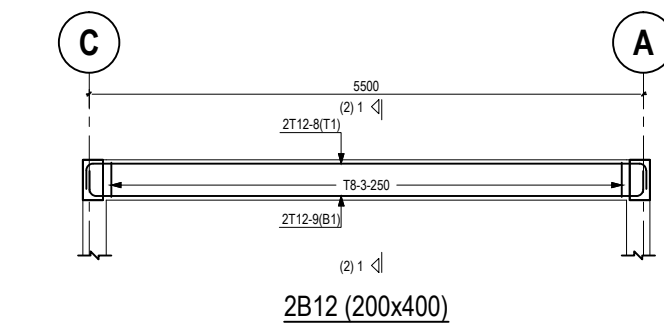
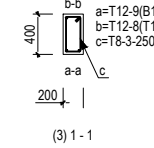
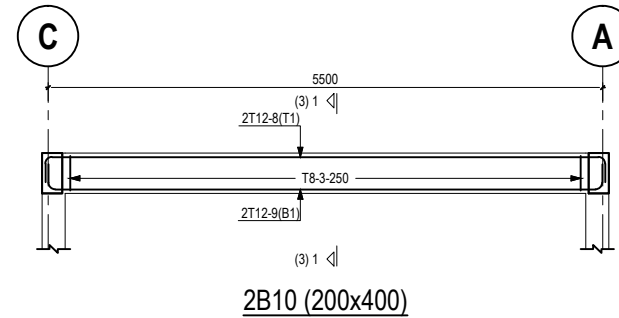
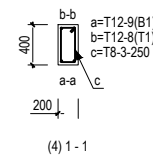
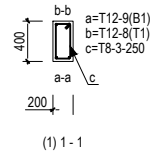
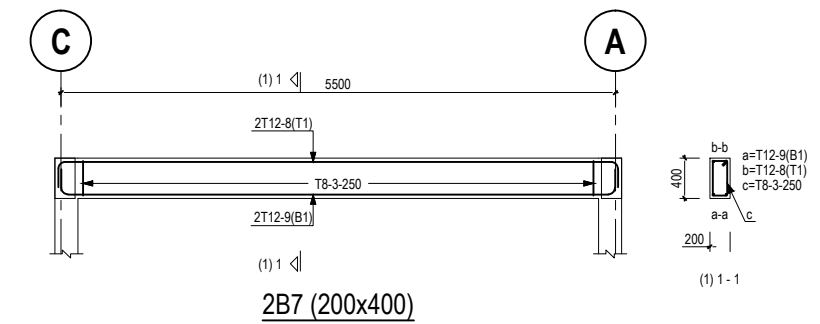
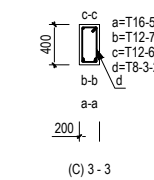
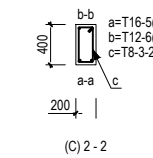
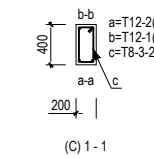
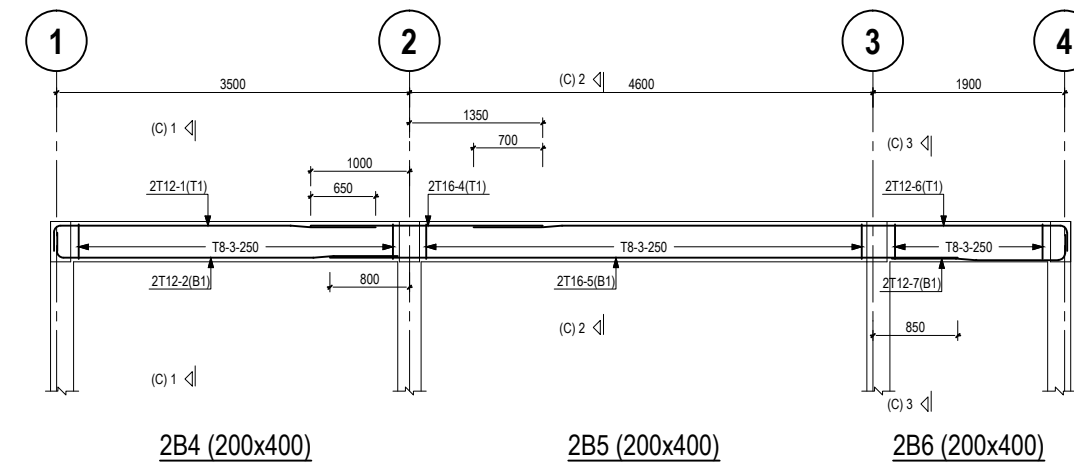
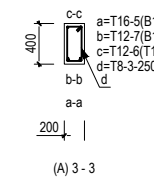
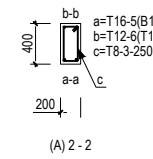
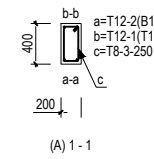
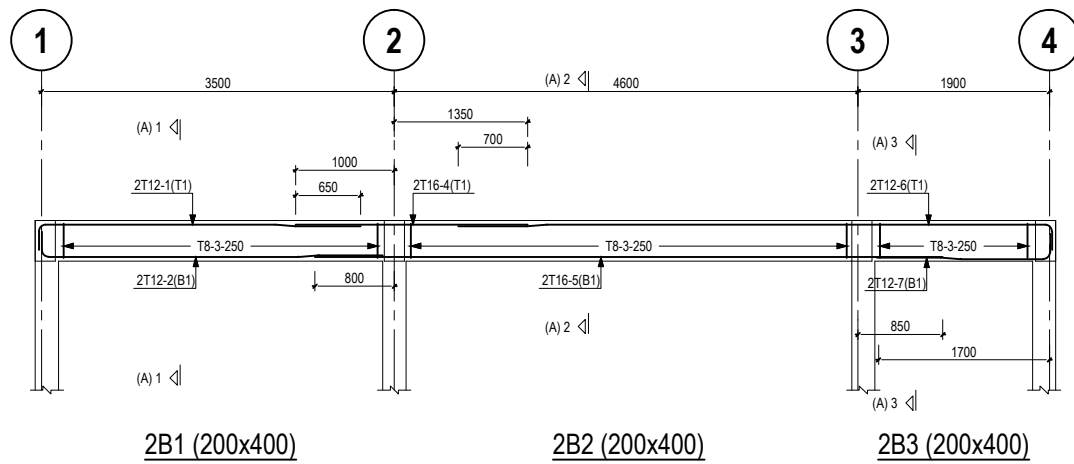
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:
1:75

TITLE:	ROOF BEAM LAYOUT PLAN (OPTION 2)
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/RC/CS - 300
REV:	



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CLIENT:

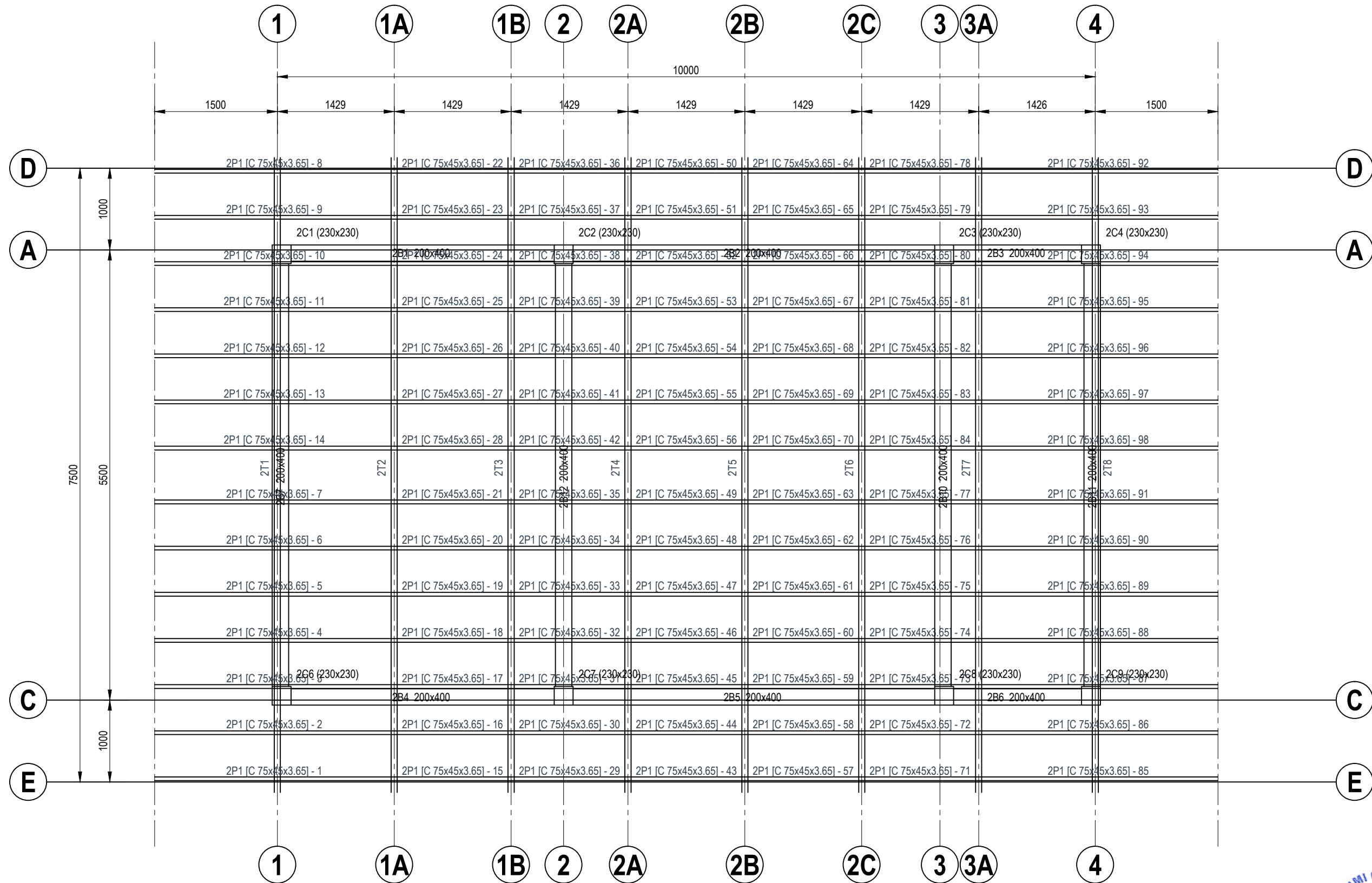
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	13/09/2022

SCALE:
N.T.S

TITLE:	ROOF BEAM DETAILS (OPTION 2)
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/RC/CS - 301
REV:	



ROOF TRUSSES LAYOUT PLAN [OPTION 2]

SCALE 1 : 50



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APPROVED BY

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SAI
MD. YUNUS

DATE
17/09/2022

SCALE:

1:75

TITLE:

ROOF TRUSSES LAYOUT PLAN (OPTION 2)

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2

JOB NO:

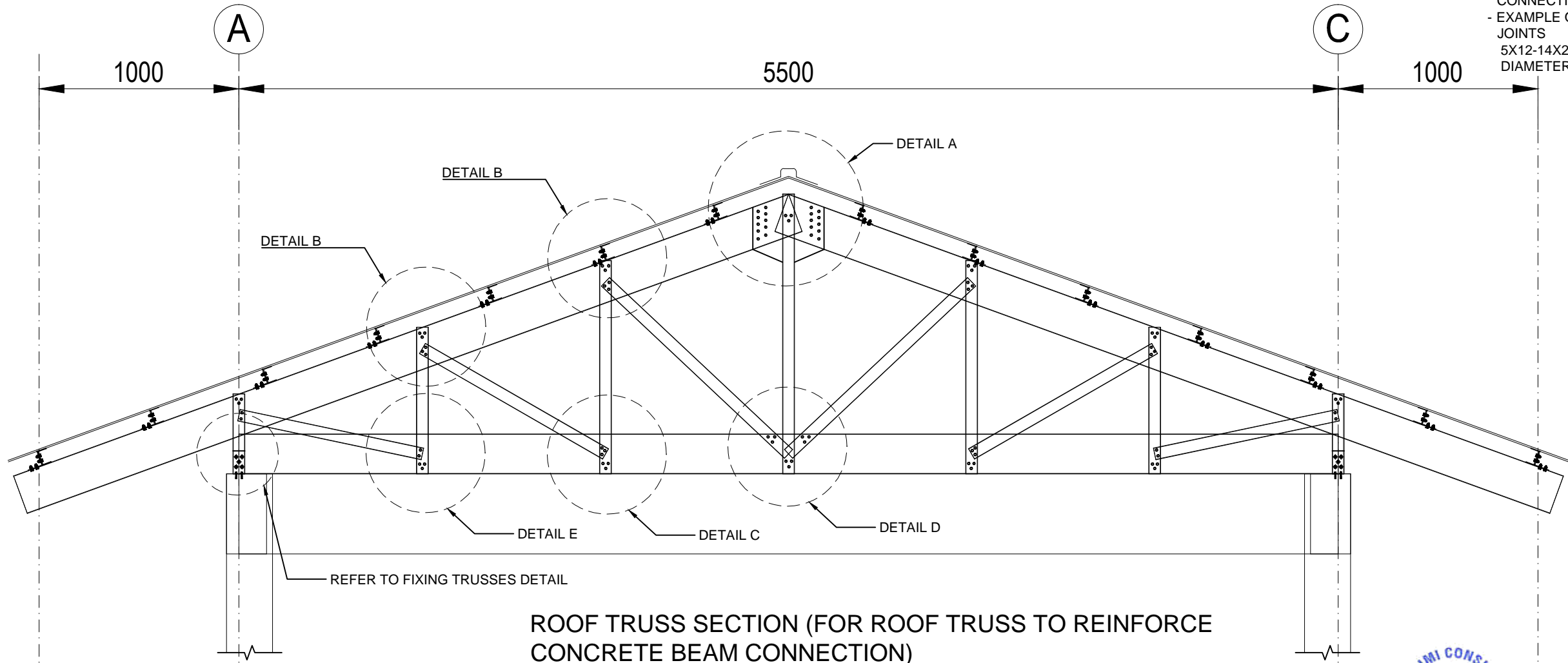
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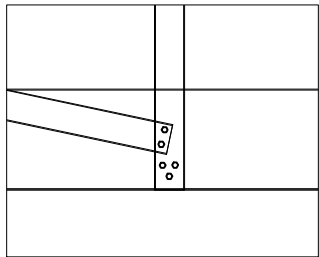
SBC/Q366/AFLQ/5PO2/RC/CS - 400

REV:

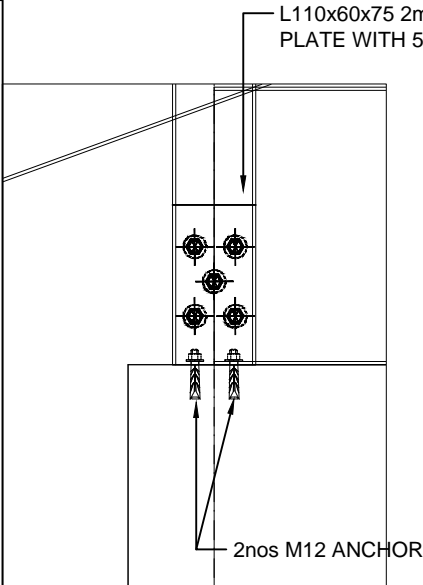
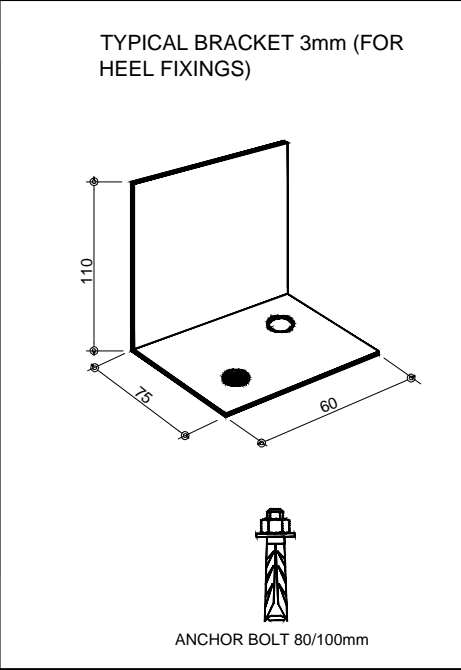
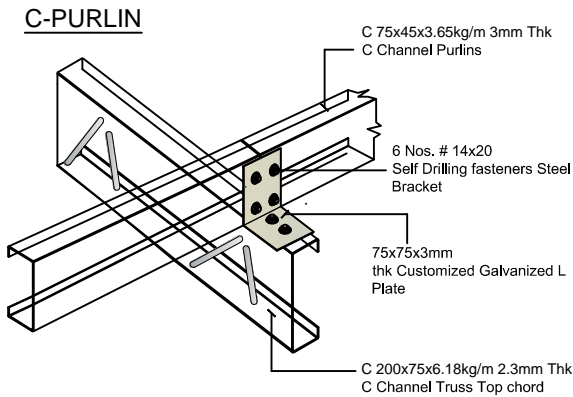
NOTE:
- ONLY SUITABLE AND APPROVED SCREWS BY APPOINTED SUPERVISION CONSULTANT TO BE USED FOR ROOF TRUSSES MEMBERS CONNECTION.
- EXAMPLE OF SCREW LABELLING FOR VARIOUS JOINTS
5X12-14X20 MEANS 5 NOS OF 12 TO 14MM DIAMETER OF 20MM LENGTH SCREW TYPE.



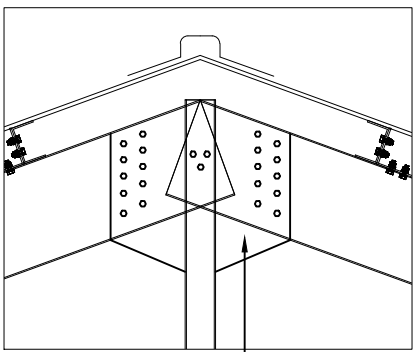
ROOF TRUSS SECTION (FOR ROOF TRUSS TO REINFORCE CONCRETE BEAM CONNECTION)



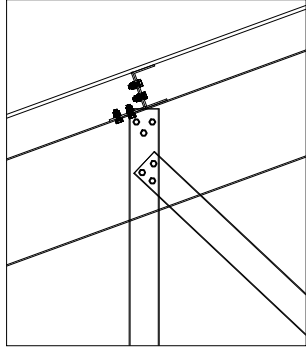
DETAIL E
5 x 12-14 x 20
SCREW



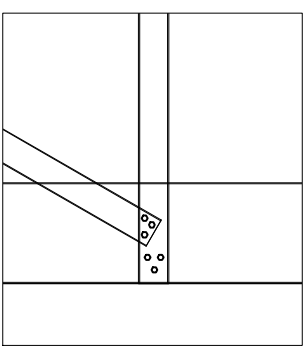
FIXING TRUSSES
(HEEL JOINT)



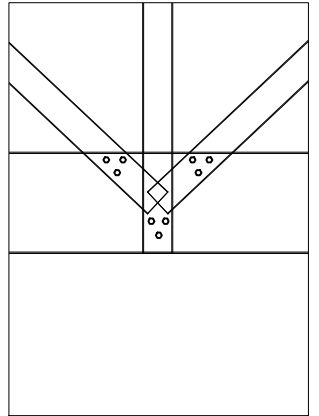
DETAIL A
23 x 12-14 x 20
SCREW



DETAIL B
6 x 12-14 x 20
SCREW

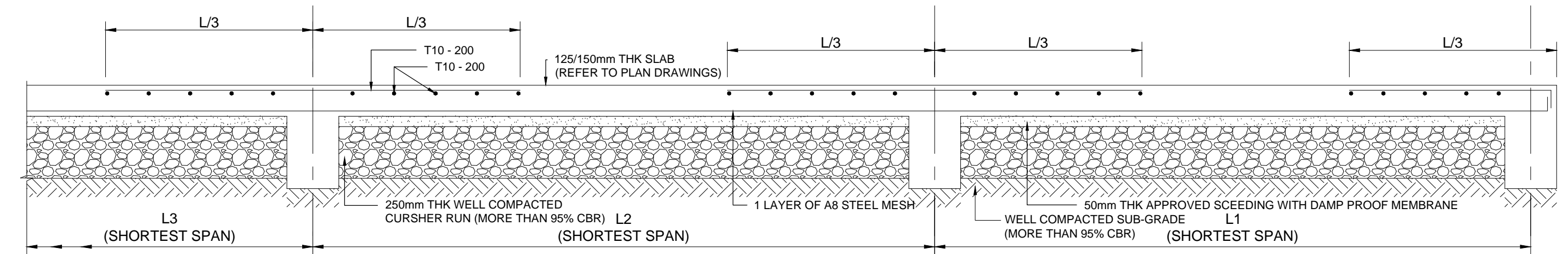


DETAIL C
6 x 12-14 x 20
SCREW



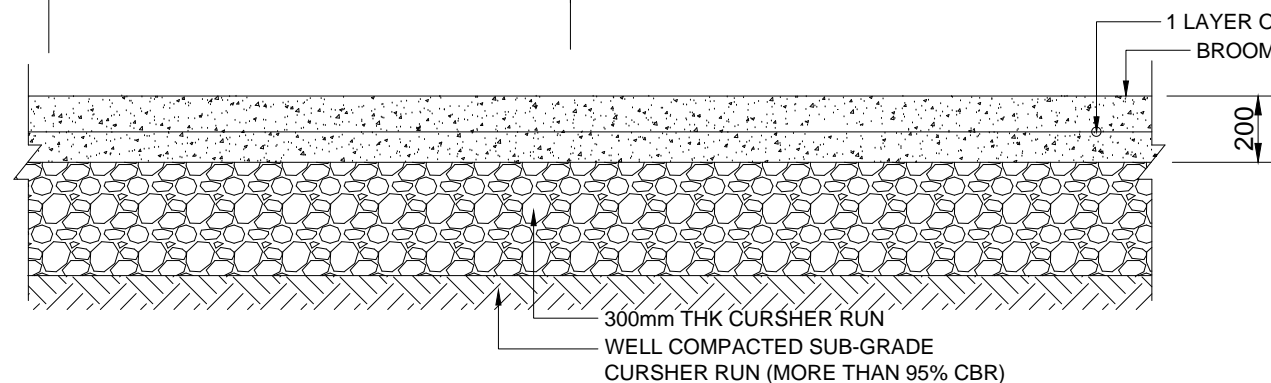
DETAIL D
9 x 12-14 x 20
SCREW

NO.	AMENDMENTS	BY	DATE



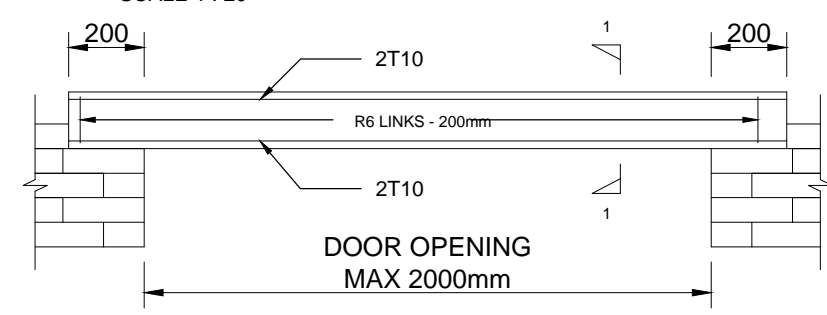
TYPICAL GROUND FLOOR SLAB DETAIL

SCALE 1 : 20



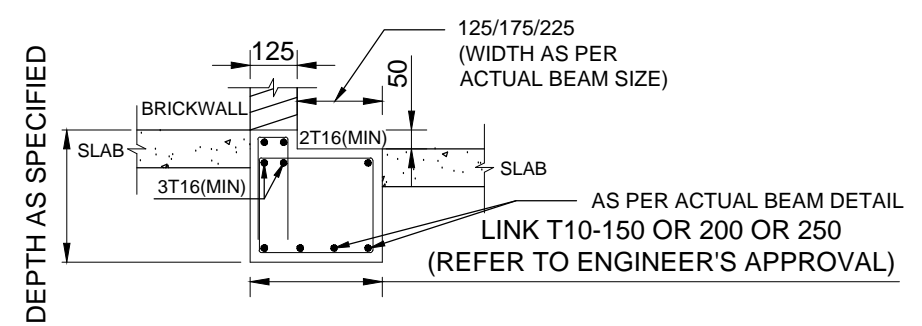
TYPICAL NON SUSPENDED SLAB DETAIL

SCALE 1 : 20

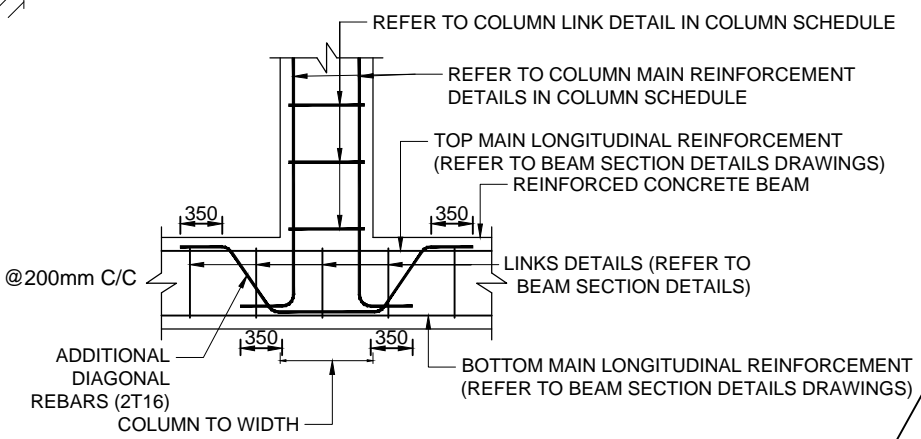


TYPICAL LINTEL BEAM DETAIL

SCALE 1 : 20

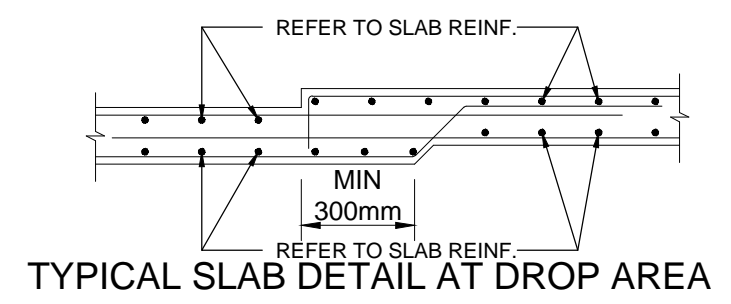


APPROXIMATE & TYPICAL BEAM DETAIL FOR 50mm OR 100mm DROP WHICH NEEDS TO BE ALIGNED/COORDINATED WITH ARCHITECT'S DRAWINGS.



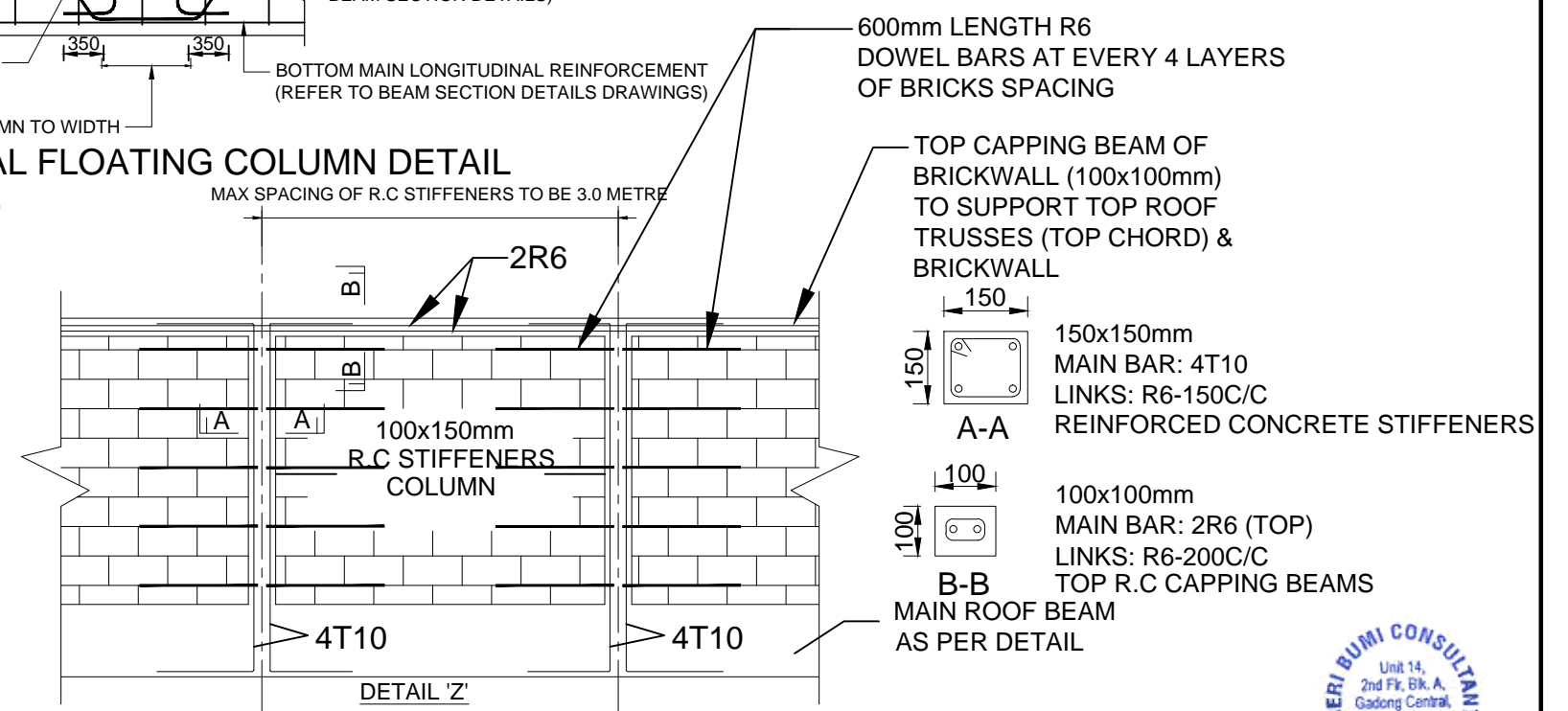
TYPICAL FLOATING COLUMN DETAIL

SCALE 1 : 20





TYPICAL SLAB DETAIL AT DROP AREA

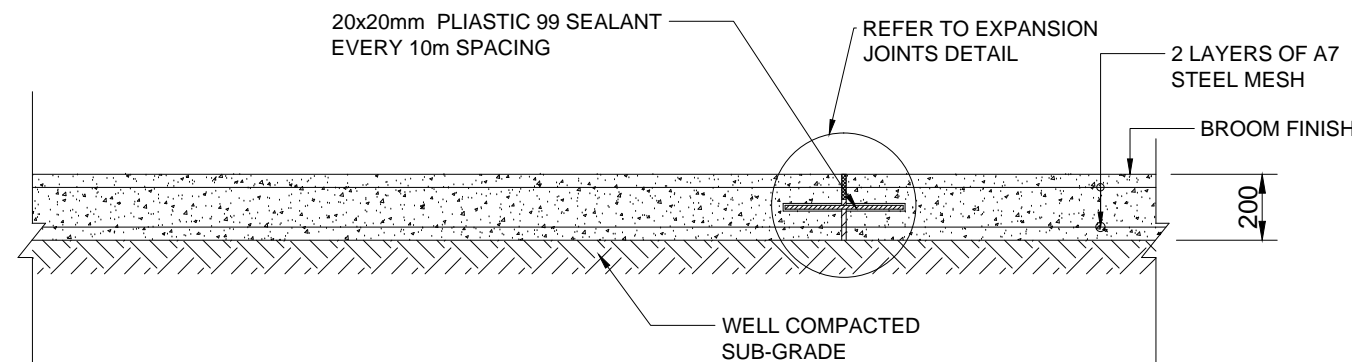
SCALE 1 : 20



TYPICAL REINFORCED CONCRETE STIFFENER COLUMNS & CAPPING BEAMS DETAILS

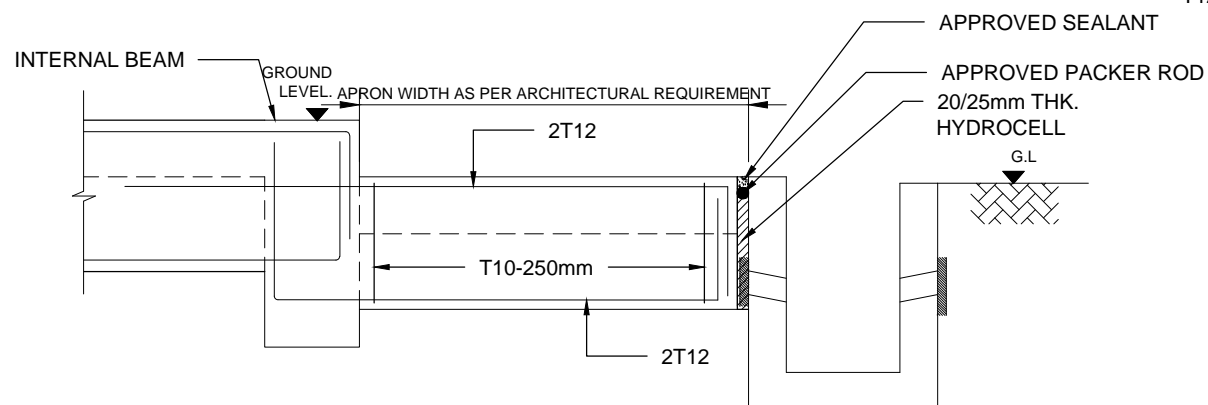


<div></div> <div>SERI BUMI CONSULTANT CIVIL & STRUCTURAL ENGINEERING CONSULTANT</div> <div>No: 14, 2nd FLOOR, BLOCK A, GADONG CENTRAL, SIMPANG 21, JALAN GADONG, SSB, BRUNEI DARUSSALAM TEL: 673-2427275 FAX: 673-2427279 E-MAIL: sbc.brunel@gmail.com</div>	CLIENT:					DESIGNED BY	THAN ZAW TUN		SCALE: 1:20	TITLE: MISCELLANEOUS DETAILS 1 (OPTION 2)	JOB NO:		
						DRAWN BY	SAI				SHEET NO:		
						CHECKED BY	MD. YUNUS				PROJECT: PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2	DRAWING NO: SBC/Q366/AFLQ/5PO2/RC/MISC - 100	REV:
						APPROVED BY							
		NO.	AMENDMENTS	BY	DATE								



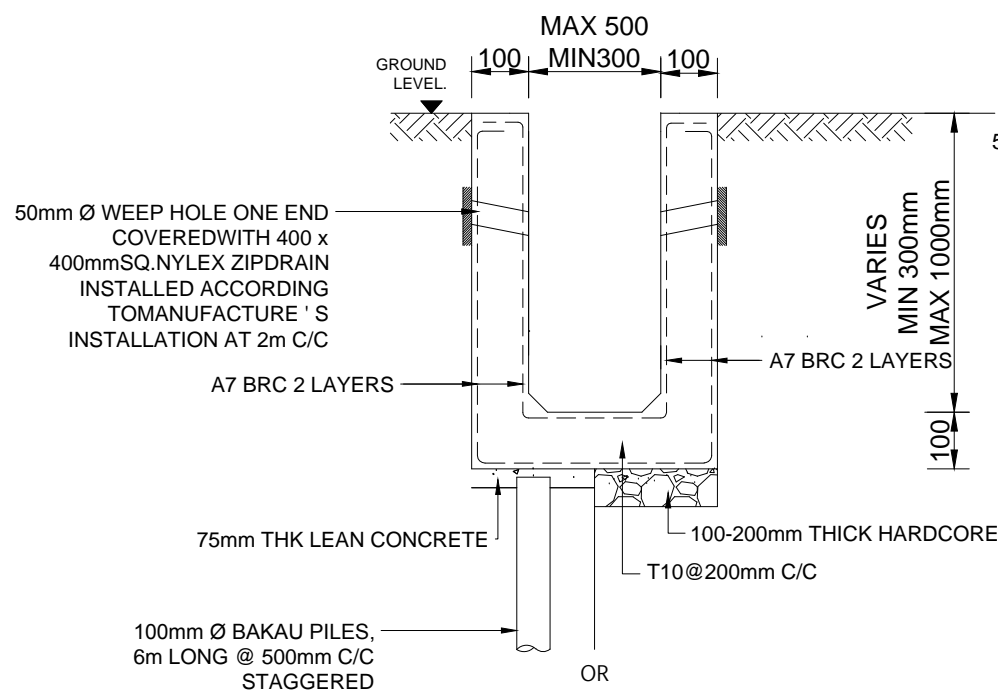
TYPICAL ACCESS ROAD DETAIL/CAR PARK SLAB DETAIL

SCALE 1 : 20



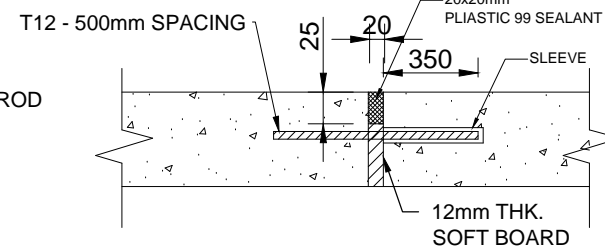
TYPICAL APRON BEAM DETAIL(200x450)

SCALE 1 : 20



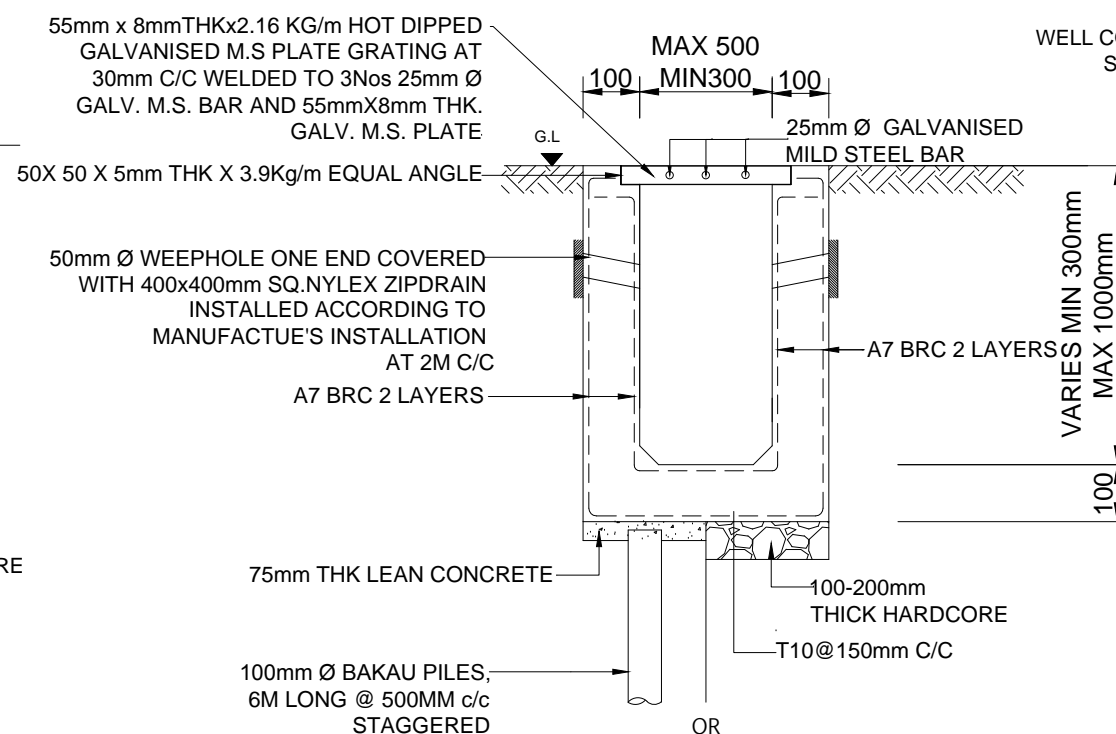
R.C DRAIN DETAIL

SCALE 1 : 20



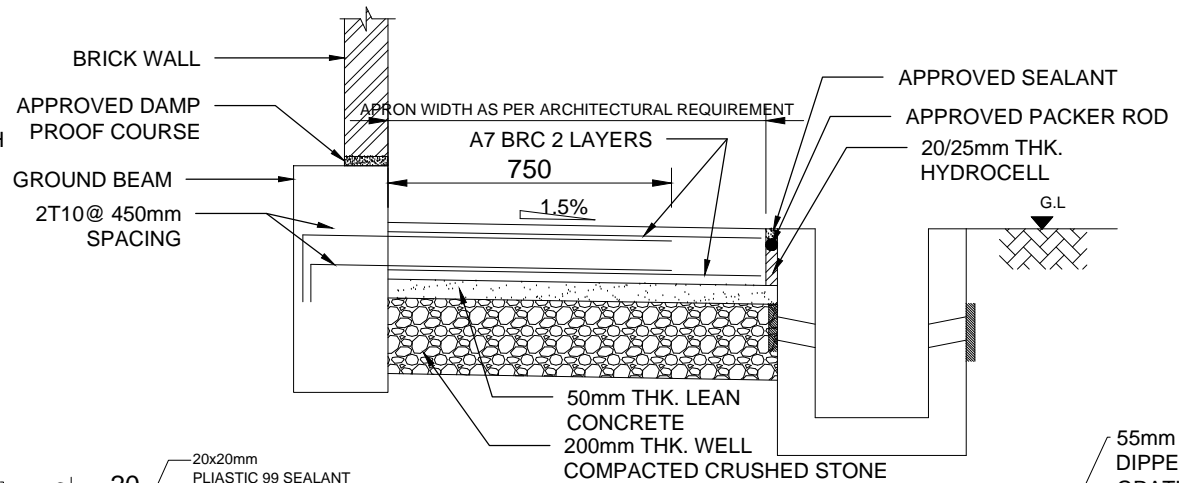
EXPANSION JOINTS DETAIL

SCALE 1 : 20



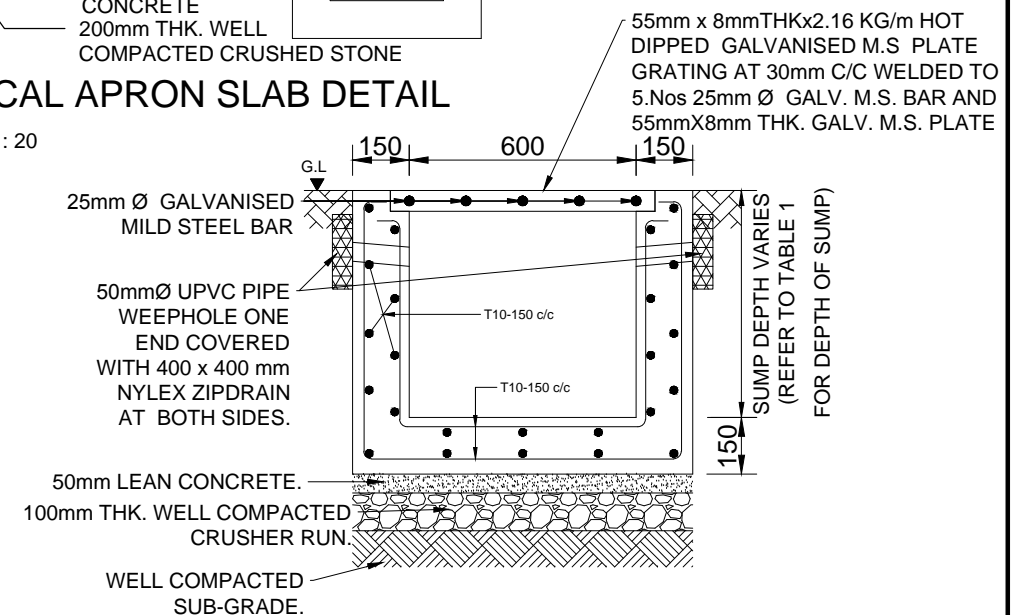
R.C DRAIN WITH GRATING DETAIL

SCALE 1 : 20



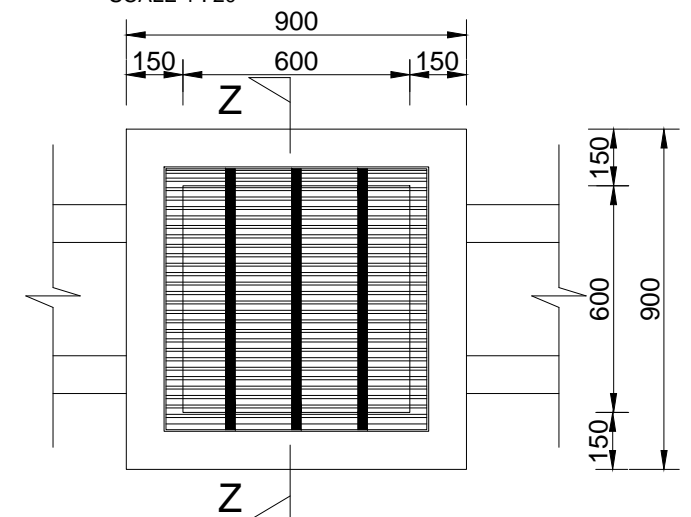
TYPICAL APRON SLAB DETAIL

SCALE 1 : 20



TYPICAL SECTION 'Z-Z'
600x600mm R.C SUMP DETAIL

SCALE 1 : 20



R.C SUMP PLAN LAYOUT

SCALE 1 : 20



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CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	DATE 13/09/2022

SCALE:
1:20

TITLE:	MISCELLANEOUS DETAILS 2 (OPTION 2)
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/RC/MISC - 101
REV:	



PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

LIST OF DRAWINGS				
	DESCRIPTIONS	DRAWING NO.	REVISION NO.	REMARKS
1	LIST OF DRAWINGS	SBC/Q366/AFLQ/5PO2/ST/L - 100	2	
2	GENERAL NOTES	SBC/Q366/AFLQ/5PO2/ST/G-100		
3	150x150mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN	SBC/Q366/AFLQ/5PO2/ST/CS-100		
4	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-101		
5	PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 100 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-101A		
6	PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 100 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-101B		
7	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-102		
8	PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 150 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-102A		
9	PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 150 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-102B		
10	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-103		
11	PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 200 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-103A		
12	PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 200 kN/m ²]	SBC/Q366/AFLQ/5PO2/ST/CS-103B		
13	COLUMN SCHEDULE	SBC/Q366/AFLQ/5PO2/ST/CS-101		
14	GROUND FLOOR BEAM LAYOUT PLAN	SBC/Q366/AFLQ/5PO2/ST/CS-200		
15	GROUND FLOOR BEAM DETAILS	SBC/Q366/AFLQ/5PO2/ST/CS-201		
16	ROOF BEAM LAYOUT PLAN	SBC/Q366/AFLQ/5PO2/ST/CS-300		
17	ROOF TRUSSES LAYOUT PLAN	SBC/Q366/AFLQ/5PO2/ST/CS-400		
18	ROOF TRUSSES SECTION (FOR ROOF TRUSS TO STEEL BEAM CONNECTION)	SBC/Q366/AFLQ/5PO2/ST/CS-401		
19	ROOF TRUSSES AND PURLIN CONNECTIONS DETAILS (FOR ROOF TRUSS TO STEEL BEAM CONNECTION)	SBC/Q366/AFLQ/5PO2/ST/CS-402		
20	MISCELLANEOUS DETAILS - 1	SBC/Q366/AFLQ/5PO2/ST/MISC-100		
21	MISCELLANEOUS DETAILS - 2	SBC/Q366/AFLQ/5PO2/ST/MISC-101		



1. GENERAL

- 1.1 SETTING OUT:
ALL DIMENSIONS MEASURED ON SITE SHALL BE CHECKED AND CONFIRMED WITH RELEVANT ARCHITECTURAL, M&E, CIVIL AND STRUCTURAL DRAWINGS.
- 1.2 ANY DISCREPANCIES BETWEEN ARCHITECTURAL, C&S AND M&E DRAWINGS SHALL BE REFERRED TO PROJECT ARCHITECT OR STRUCTURAL ENGINEER OR M&E.
- 1.3 PLEASE NOTE THAT THE ARCHITECTURAL DRAWINGS GRID LINE AND STRUCTURAL DRAWINGS GRID LINES HAVE BEEN PURPOSELY OFF-SET TO EASE CONSTRUCTION ON STRUCTURAL MEMBERS.

2. STANDARDS & CODE OF PRACTICE

- 2.1 BS 8110 : 1985 STRUCTURAL USE OF CONCRETE
- 2.2 PBD 12 : 2008 BUILDING GUIDELINES AND REQUIREMENTS
- 2.3 BS 4449 : 1978 HOT ROLLED STEEL BARS FOR THE REINFORCEMENT OF CONCRETE

3. CONCRETE

- 3.1 CONCRETE STRENGTH :- 25 N/mm² (GRADE 25) UNLESS OTHERWISE STATED
- | | |
|---------------|------------------------|
| LEAN CONCRETE | - 15 N/mm ² |
| PILE CAP | - 25 N/mm ² |
| COLUMN | - 25 N/mm ² |
| SLAB | - 25 N/mm ² |
| BEAM | - 25 N/mm ² |

- 3.2 CONCRETE COVER TO ALL REINFORCEMENT INCLUDING LINKS SHALL MEET THE 2-HOUR FIRE RATING & AS STATED BELOW (UNLESS OTHERWISE STATED)
- | | |
|-----------|--------|
| COLUMNS | : 30mm |
| BEAMS | : 30mm |
| PILE CAPS | : 75mm |
| SLABS | : 20mm |

- 3.3 CONCRETE CURING : TO BE CARRIED OUT BY SPRAYING WITH WATER AND COVERING WITH EITHER GUNI SACKS OR PLASTIC SHEETS.

- 3.4 ANY COLD JOINTS AND HACKED CONCRETE SURFACE SHALL BE APPLIED WITH APPROVED BONDING AGENT BEFORE POURING NEW CONCRETE.

- 3.5 50mm (MINIMUM) THICK BLINDING LEAN CONCRETE SHALL BE PROVIDED BENEATH FOOTINGS, GROUND BEAMS AND ALL GROUND FLOOR SLABS SOFFIT.

4. STEEL REINFORCEMENT

- 4.1 THE MINIMUM YIELD STRENGTH OF STEEL REINFORCEMENT (WITH DENOTATION "T") FOR HIGH TENSILE DEFORMED BAR (TYPE 2 - 460 N/mm², STEEL FABRIC - 485 N/mm² (UNLESS OTHERWISE STATED).
- 4.2 THE MINIMUM YIELD STRENGTH OF STEEL REINFORCEMENT (WITH DENOTATION "R") SHALL BE 250N/mm².

5. ALL WATER RETAINING STRUCTURE OR WET AREAS SHALL BE APPLIED WITH APPROVED WATER PROOFING SYSTEM.

6. IF REQUIRED R.C LINTEL BEAM OF SIZES 150 X 200 REINFORCED WITH 2T12 (T&B) & R6 -150 LINKS SHALL BE PROVIDED TO ALL DOORS AND WINDOWS. STIFFENER, COLUMN SIZES 150X150 TO 200X200 REINFORCED WITH 4T12 & T10-150 LINKS SHALL BE PROVIDED IF REQUIRED. (FOR EG. ON WALL OF MORE THAN 3.5m IN HORIZONTAL LENGTH OR VERTICAL HEIGHT)

7. INCORPORATING OF M & E REQUIREMENTS IN STRUCTURAL DRAWINGS:
THE CONTRACTOR TO PREPARE DETAILED SHOP DRAWINGS INCORPORATING ALL M & E REQUIREMENTS, OPENINGS ETC INTO THE STRUCTURAL DRAWINGS AND OBTAIN THE PROJECT STRUCTURAL ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY FORM OF PERMANENT CONSTRUCTION WORKS. THE CONTRACTOR SHALL RESOLVE ALL DISCREPANCIES WITH ENGINEERS REGARDING M & E WORKS PRIOR TO CONCRETING.

8. NOTES FOR COMPACTION WORKS OF SUB-BASE AND SUB-GRADE.

1. ALL SUB-GRADE AND SUB-BASE LAYING WORKS SHALL BE WELL COMPACTED TO OVER 95% CBR.
2. MINIMUM OF FOUR NUMBER OF DRY FIELD DENSITY TESTS AND CBR TESTS SHALL BE CONDUCTED ON COMPACTED SUBGRADES AND SUB-BASE BEFORE CARRYING OUT ANY PERMANENT WORKS SUCH AS CONCRETING OF ACCESS ROAD, GARAGE NON-SUSPENDED FLOOR SLABS & HARD STANDINGS, ETC. THE TESTS RESULTS SHALL BE SUBMITTED TO CIVIL AND STRUCTURAL CONSULTANT ENGINEER FOR REVIEW AND APPROVAL TO PROCEED WITH PERMANENT WORKS (IF APPLICABLE BASIS ONLY).

9. REMOVAL OF FORMWORK

- A) THE TIME FOR THE REMOVAL OF FORMWORKS IS TO BE SUBJECTED TO ENGINEER'S APPROVAL, BUT THE FOLLOWING MAY BE TAKEN AS A GUIDE TO MINIMUM TIMES APPLICABLE UNDER NORMAL CIRCUMSTANCES:

SIDE OF COLUMNS/PIERS,WALLS AND BEAMS	3 DAYS
SOFFIT OF SLABS (PROPS LEFT UNDER)	14 DAYS
PROPS OF SLABS	28 DAYS
SOFFIT OF BEAMS (PROPS LEFT UNDER)	14 DAYS
PROPS TO SOFFIT OF BEAMS	28 DAYS

- B) SHUTTERING AND CENTERING SHALL BE REMOVED BY GRADUAL EASING WITHOUT JARRING, AND ONLY IN THE PRESENCE OF A COMPETENT SUPERVISER. BEFORE REMOVAL OF THE SHUTTERING, THE CONCRETE SHALL BE EXAMINED, AND REMOVAL SHALL PROCEED ONLY IF THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO SUPPORT ITS OWN WEIGHT AND ANYCONSTRUCTIONAL OR OTHER LOADS LIKELY TO COME UPON IT. IF ANY LOADING IN EXCESS OF THE DESIGN LOAD IS ANTICIPATED, APPROVED PROPS SHALL BE PROVIDED AFTER REMOVAL OF SHUTTERING.
- C) TO ENSURE THAT THE CONSTRUCTIONAL LOADS OF A FLOOR ARE SHARED BY AT LEAST TWO FLOORS BELOW IT, THE PROPS TO THE BEAMS AND SLABS OF A FLOOR SHALL NOT BE REMOVED UNTIL THE FLOOR ABOVE THE FLOOR IN QUESTION, IS STRONG ENOUGH TO SUPPORT ITSELF.

10. GENERAL NOTES FOR PILING WORKS

1. ALL PILES TO BE USED FOR THIS PROJECT SHALL BE OF BRUNEI DARUSSALAM MINISTRY OF DEVELOPMENT'S APPROVED TYPES AND BRAND NAMES OR AS PER S.O.'S APPROVAL.
2. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, BEFORE ANY PILING WORK IS STARTED, DETAILS OF :-
- PILE DRIVER INCLUDING SIZE OF HAMMER AND DROP.
- CONTRACTOR'S CALCULATIONS OF SETS, CALCULATED USING THE HILEY FORMULA.
- PROPOSED PROGRAM AND SEQUENCE OF PILE DRIVING INCLUDING TEST PILES.
3. NO PILING SHALL COMMENCE UNTIL THE SET VALUES SUBMITTED BY THE CONTRACTOR ARE APPROVED IN WRITING BY THE ENGINEER.
4. THE CALCULATED SETS SHALL ONLY BE USED AS A GUIDE FOR DRIVING AND THE SET SHALL BE CONFIRMED BY THE IN-SITU PILE TEST.
5. HOWEVER, PILE HYDRAULIC JACKING TO TWICE THE SAFE WORKING LOAD (MINIMUM) SHALL BE USED IF PILE HAMMERING ACTIVITIES CAUSES DISTURBANCES AND DISTRESS (EXCESSIVE VIBRATIONS) TO SURROUNDING BUILDINGS

11. GENERAL NOTES FOR R.C PILES

R.C PILES

1. ALL REINFORCED CONCRETE (R.C.) PRECAST PILES SHALL BE 150MM X 150MM REINFORCED CONCRETE PRECAST PILES OR AS PER SPECIFIED IN THE DRAWINGS.
2. CONCRETE GRADE SHALL BE GRADE 45 MINIMUM FOR NORMAL R.C. PRECAST PILES.
3. THE ALLOWABLE SAFE BEARING CAPACITY OF EACH R.C. PRECAST PILES POINT SHALL BE 25 TONNES.
4. THE EXPECTED PENETRATION DEPTH OF EACH PILE POINT IS 6 TO 15 METRES. THIS IS TO BE CONFIRMED DURING PILE DRIVING WORKS. (UNTIL PILE SET IS ACHIEVED UNLESS OTHERWISE STATED)
5. THE PILE SET SHOULD BE ACHIEVED WITH THE LAST 10 BLOWS FOR LESS THAN 20mm PENETRATION (PILE HAMMER OF ABOUT ONE TONNE WITH HAMMER DROP OF ABOUT 600mm TO ONE METRE)
6. ALL WELDING WORKS FOR JOINING OF PILES SHALL BE CARRIED OUT BY QUALIFIED LICENSED WELDERS.
7. IF ANY OF THE PILE POINTS DOES NOT PENETRATE 6 METRES DEEP INTO THE GROUND (IF PILE SET IS ACHIEVED AT LESS THAN 6 METRES PENETRATION LENGTH), THE CLIENT OR CONTRACTOR SHALL REPORT TO THE C&S CONSULTANT FOR REDESIGN REQUIREMENT OF THE PILE FOUNDATION.

11a. MILD STEEL TUBULAR PILING

- 11a.1 ALL PILES SHALL BE GRADE 43 SEAMLESS MS TUBES 114.3mm \varnothing x 6.3mm THICK TO B.S. 4848 PART II WITH AN ULTIMATE LOAD CAPACITY OF NOT LESS THAN 240KN.
- 11a.2 ALL PILING WORK SHALL BE CARRIED OUT IN ACCORDANCE TO THE GENERAL SPECIFICATION AS SHOWN IN SPECIFICATION OF MATERIALS AND WORKMANSHIP.

12. NOTES FOR PAD FOOTING

1. ALL PAD FOOTING CONSTRUCTION SHALL BE REFERRED TO THE PAD FOOTING LAYOUT PLAN N AND DETAILS
2. THE DESIGN IS BASED UPON THE GROUND BEARING CAPACITY AT ABOUT 2.0 METRES BELOW EXISTING GROUND LEVEL TO BE 150kN/m²
3. CONCRETE GRADE 30 SHALL BE USED FOR ALL PAD FOOTING WORKS

13. NOTES FOR BAKAU PILING

1. WITH A 1/2 TONNE HAMMER AND DROP OF 900mm, THE FINAL SET SHOULD NOT BE MORE THAN 75/10 BLOWS OR THE SET TO BE FINALISED BY THE ENGINEER DURING THE TEST PILING.
2. ALL BAKAU PILES SHOULD BE NOT LESS THAN 75mm \varnothing (ON AVERAGE), ALL PILES CUT-OFF SHALL BE AT THE LOWEST WATER LEVEL. EXACT LEVEL TO BE DETERMINED ON SITE BY THE ENGINEER.
3. IF PILE REQUIRED TO BE SPliced TOGETHER, A TUBULAR SPlice WITH A HEAVY PIPE 90mm \varnothing x 600mm LONG x 6mm THICK SHOULD BE USED AT LEAST 4 HOLES SHALL BE PROVIDED IN THE PIPE FOR DRIVING 65mm LONG NAILS SPIKE INTO THE PILE.
4. ACTUAL SPACING OF BAKAU PILES TO BE DECIDED ON SITE.

14. NOTES FOR SAFETY OF EXISTING UNDER GROUND SERVICES

1. MAIN CONTRACTOR TO CARRY OUT PILOT TRENCHING (ADEQUATE GROUND INVESTIGATION) BEFORE CARRYING OUT ANY EXCAVATION WORKS FOR DRAINAGE WORKS, PILING WOKS AND OTHER WORKS THAT MAY AFFECT THE BURIED (UNDER GROUND) EXISTING SERVICES/UTILITIES SUCH AS ELECTRICAL CABLES, FIBRE OPTIC CABLES, TELECOM CABLES, WATER PIPES. .THIS IS IMPORTANT TO PREVENT ANY DAMAGE TO SUCH SERVICES /UTILITIES SAFETY THREAT TO ALL STATEHOLDERS.

15. NOTES FOR WATERPROOFING WORKS :

1. ALL INTERNAL OR EXTERNAL SURFACES OF WATER RETAINING STRUCTURE OR WET AREAS SUCH AS TOILETS, RC ROOF SLABS, RC GUTTERS, M&E ROOMS AND KITCHENS SHALL BE WATERPROOFED WITH APPROVED WATERPROOFING SYSTEM.
2. ALL WATERPROOFING WORKS SHALL BE CARRIED OUT BY MANUFACTURER'S APPROVED INSTALLER/APPLICATOR AND SHALL BE APPLIED IN STRICT ACCORDANCE TO THE MANUFACTURER'S APPROVED PROCEDURES OR AS PER ENGINEER'S APPROVAL.
3. SUFFICIENT CURING TIME SHALL BE ALLOWED BEFORE INSTALLATION OF ANY PROTECTIVE SCREED OR ARCHITECTURAL FINISHES.
4. WATERPROOFING SYSTEMS THAT HAS BEEN APPROVED FOR INSTALLATION SHALL CARRY A 10 YEAR WARRANTY PERIOD BY THE MANUFACTURER OR BY THE MANUFACTURER'S REPRESENTATIVES OR BY THE APPROVED LOCAL DISTRIBUTOR/APPLICATOR.

16. GENERAL NOTES FOR ANY STRUCTURAL STEEL WORKS

1. MAIN CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STEEL WORKS FOR STRUCTURAL ENGINEER'S APPROVAL BEFORE ORDERING, PURCHASING, FABRICATING AND ERECTING ANY STEEL STRUCTURAL WORKS.
2. PROPOSED CONNECTION DETAILS TO BE PROVIDED IN THE STRUCTURAL SHOP DRAWINGS FOR STRUCTURAL ENGINEER'S APPROVAL.
3. ALL STEEL SECTION MEMBERS SHALL BE SAND BLASTED BEFORE APPLYING ANY APPROVED ANTI-CORROSION COATING SYSTEM.
4. ALL WELDING WORKS SHALL BE CARRIED OUT BY QUALIFIED LICENSED WELDERS.

17. NOTES FOR TURFING :

1. ALL TURFS SHALL BE 225MM SQUARE FROM AN APPROVED SOURCE FREE FROM LALLANG AND OTHER WEEDS.
2. BLACK EARTH OF 50MM THICKNESS SHALL BE SPREAD ON TO THE GROUND WHERE TURFING IS TO BE DONE.
3. SPOT TURFING SHALL BE LAID AT 300MM CENTRES.
4. CLOSED TURFING TO BANKS SHALL BE PEGGED IN PLACE WITH 25MM DIAMETER PEGS 225MM LONG.
5. ALL TURFING SHALL BE WATERED UNTIL SATISFACTORILY ESTABLISHED AND ALL TURFING THAT HAS BECOME DEFECTIVE WITHIN SIX MONTHS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
6. DURING THE PERIOD OF THE WORKS AND MAINTENANCE, THE CONTRACTOR SHALL KEEP ALL TURFED AREAS WATERED, MOWN OR CUT AND CLEARED OF GRASS CUTTING TO THE SATISFACTION OF THE ENGINEER. THE FIRST CUT SHALL BE MADE WHEN THE GRASS IS 100MM HIGH, FOLLOWED BY REGULAR CUTTING SO THAT THE VEGETATION AT NO TIME EXCEEDS 150MM IN HEIGHT.

18. DRAWING NOTE:

1. ALL STRUCTURAL DRAWING ARE DRAWN TO APPROXIMATE SCALE. ANY DISCREPANCY IN STRUCTURAL DRAWING DIMENSIONS, EXACT DIMENSION SHALL BE REFERRED TO STRUCTURAL ENGINEER.

19. GENERAL NOTES FOR FLOOR HARDENER REQUIREMENTS:

1. ALL CONCRETE SLAB SURFACES WHICH ARE NOT COVERED WITH HEAVY DUTY DECORATIVE TILES AND TO BE USED AS CAR PARKS OR ACCESS ROADS (FOR SELECTED AREAS) SHALL BE APPLIED WITH SUITABLE FLOOR HARDENERS SYSTEM (TO INCLUDE POWER FLOAT TROWELLING IF APPLICABLE)

20. GENERAL NOTES FOR BRICKWALL WORKS:

1. ALL BRICKS TO BE USED SHALL BE REGULAR IN SIZE AND APPROVED BY ABCI
2. REINFORCED CONCRETE STIFFENERS (100x100 WITH APPROPRIATE REINFORCEMENTS)SHALL BE PROVIDED AT EVERY INTERVAL OF 3.5m OF BRICK WORK LENGTH

21. NOTES FOR WORKPLACE SAFETY, HEALTH AND ENVIRONMENT COMPLIANCE & INSURANCES & TEMPORARY WORKS:

1. MAIN CONTRACTOR SHALL ENSURE TO COMPLY FULLY WITH ALL PREVAILING RULES, REGULATIONS AND LAWS OF NEGARA BRUNEI DARUSSALAM ON WORKPLACE SAFETY, HEALTH AND ENVIRONMENTAL ASPECTS THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD AND DEFECTS LIABILITY PERIOD
2. MAIN CONTRACTOR SHALL ENSURE THAT ALL APPLICABLE INSURANCES ARE VALID THROUGHOUT THE CONSTRUCTION PERIOD AND DEFECTS LIABILITY PERIOD SUCH AS CONTRACTOR'S ALL RISK INSURANCE OR OTHERS SUCH AS WORKMEN COMPENSATION INSURANCE POLICY, PUBLIC LIABILITY INSURANCE POLICY AND FIRE INSURANCE POLICY(WHICHEVER IS APPLICABLE AS PER SUPERINTENDING OFFICERS INSTRUCTIONS)
3. MAIN CONTRACTOR SHALL EMPLOY INDEPENDENT CONSULTANT TO CARRYOUT DESIGN WORKS FOR ALL TEMPORARY WORKS AND THAT SUCH TEMPORARY WORKS DESIGN REQUIREMENT ARE FULLY COMPLIED DURING ITS EXECUTION

22. NOTES FOR ROOF TRUSSES:

1. ROOF TRUSSES SHALL BE LIGHTWEIGHT PROPRIETARY SYSTEM SUCH AS LYSAGTH SMART TRUSS SYSTEM OR APPROVED TECHNICAL EQUIVALENT SHALL BE DESIGNED BY MANUFACTURER COMPANY.
2. THE INSTALLATION WORKS SHALL BE CARRIED OUT BY MANUFACTURER'S APPROVED INSTALLER.



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CLIENT:

NO.	AMENDMENTS	BY	DATE	

DESIGNED BY	THAN ZAW TUN	
DRAWN BY	SAI	
CHECKED BY	MD. YUNUS	
APPROVED BY		DATE 14/09/2022

SCALE:

N.T.S

TITLE:

GENERAL NOTES

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

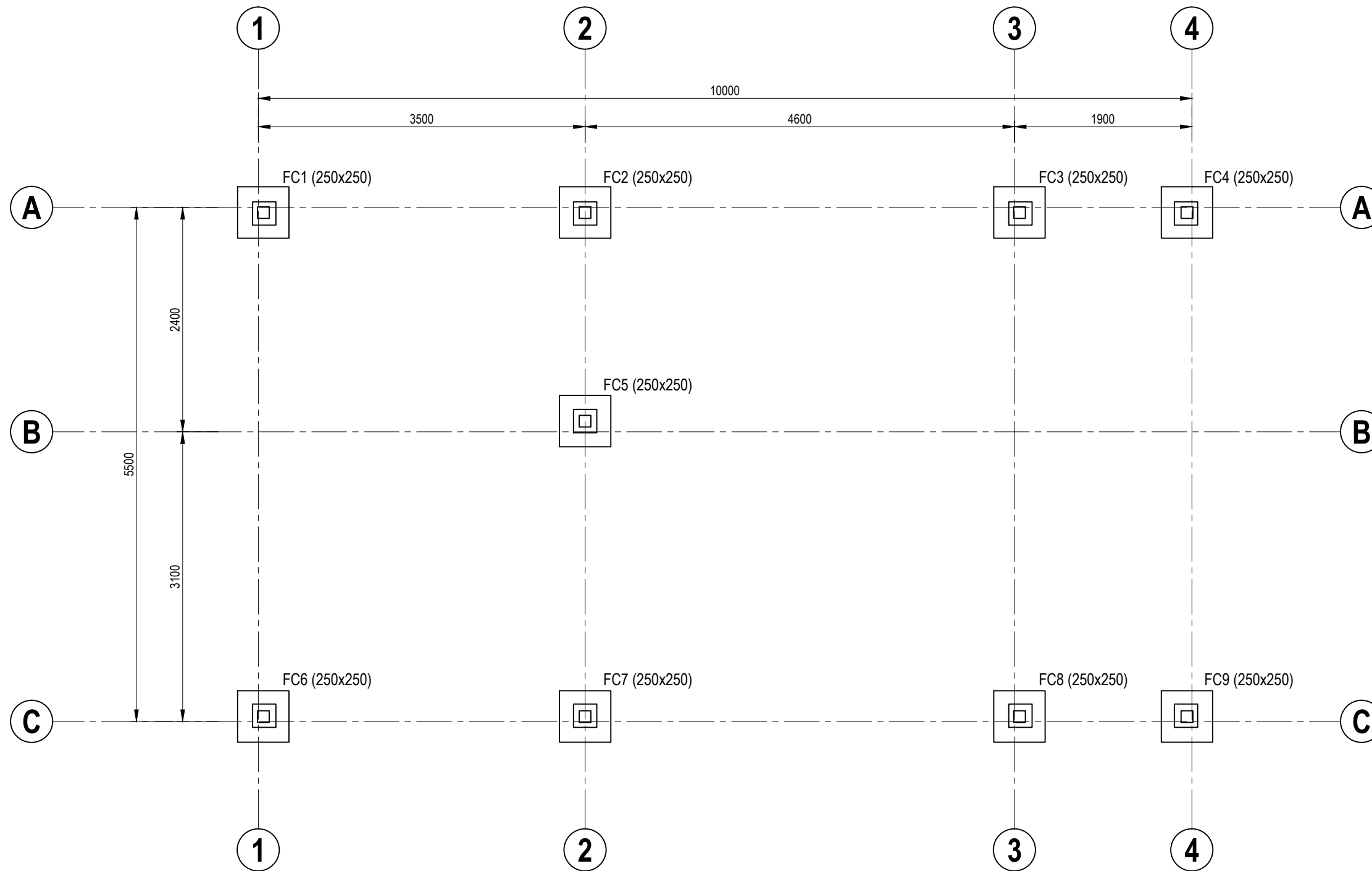
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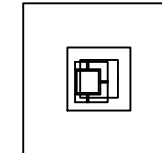
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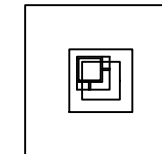
150x150mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN

SCALE 1 : 50

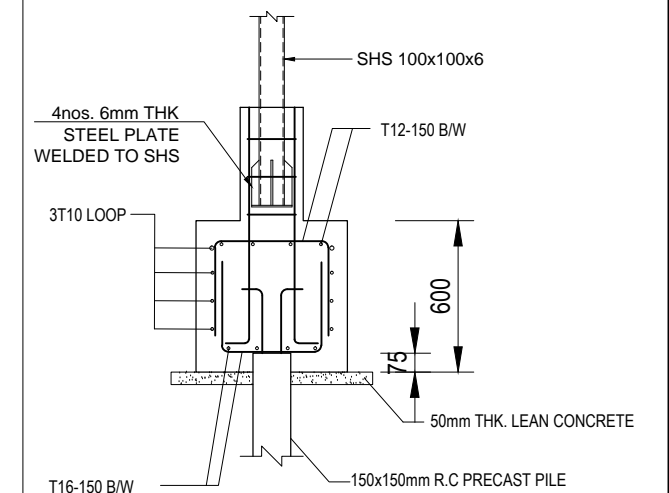
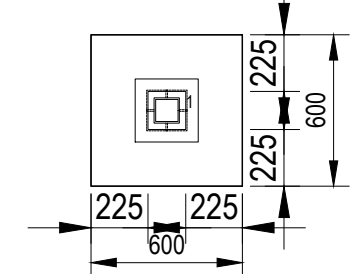
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APPROVED BY

[Signature]

DATE

4/09/2022

SCALE:

1:50

TITLE:

150x150mm R.C PRECAST PILE FOUNDATION LAYOUT PLAN

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

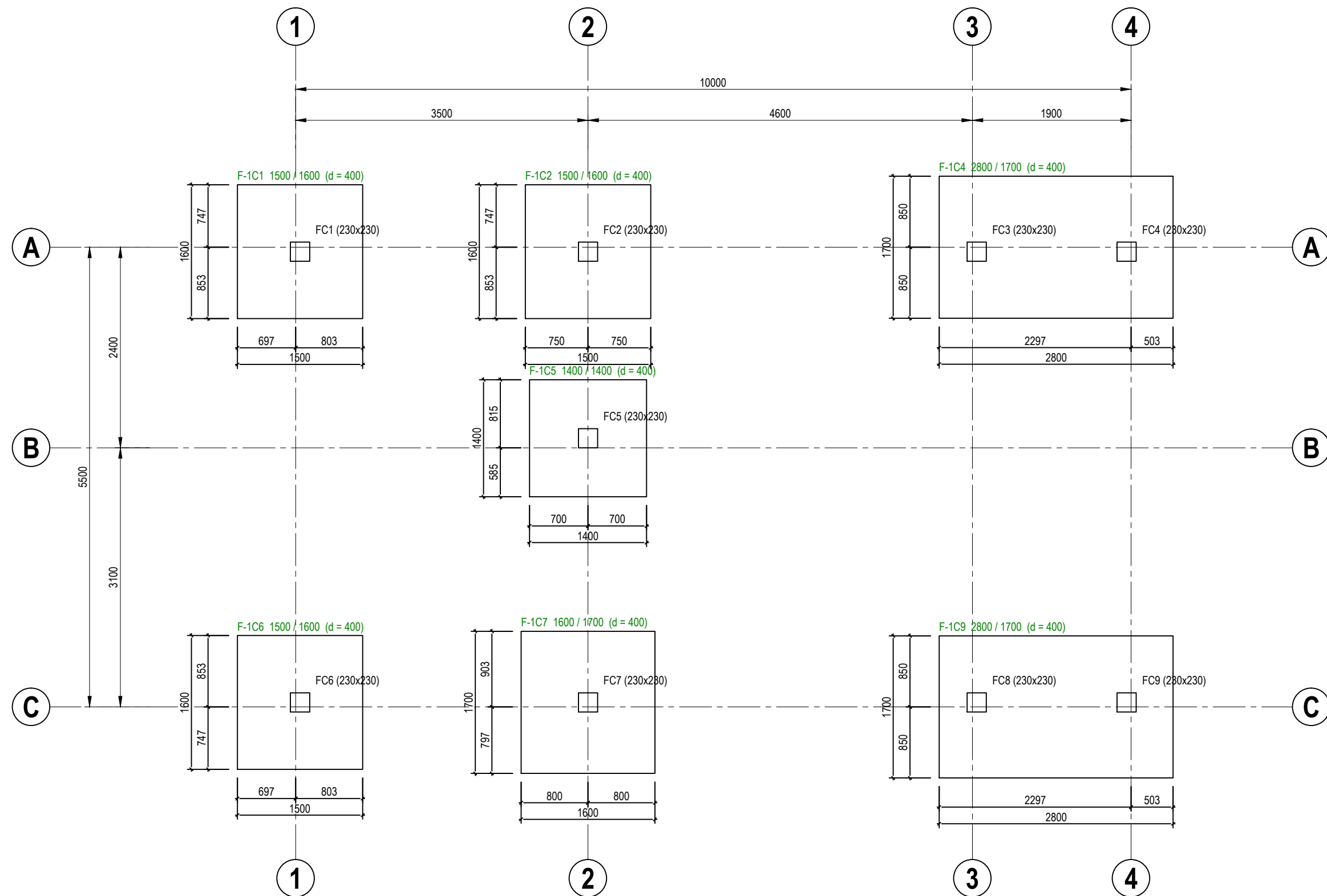
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PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 kN/m²]

SCALE 1 : 50



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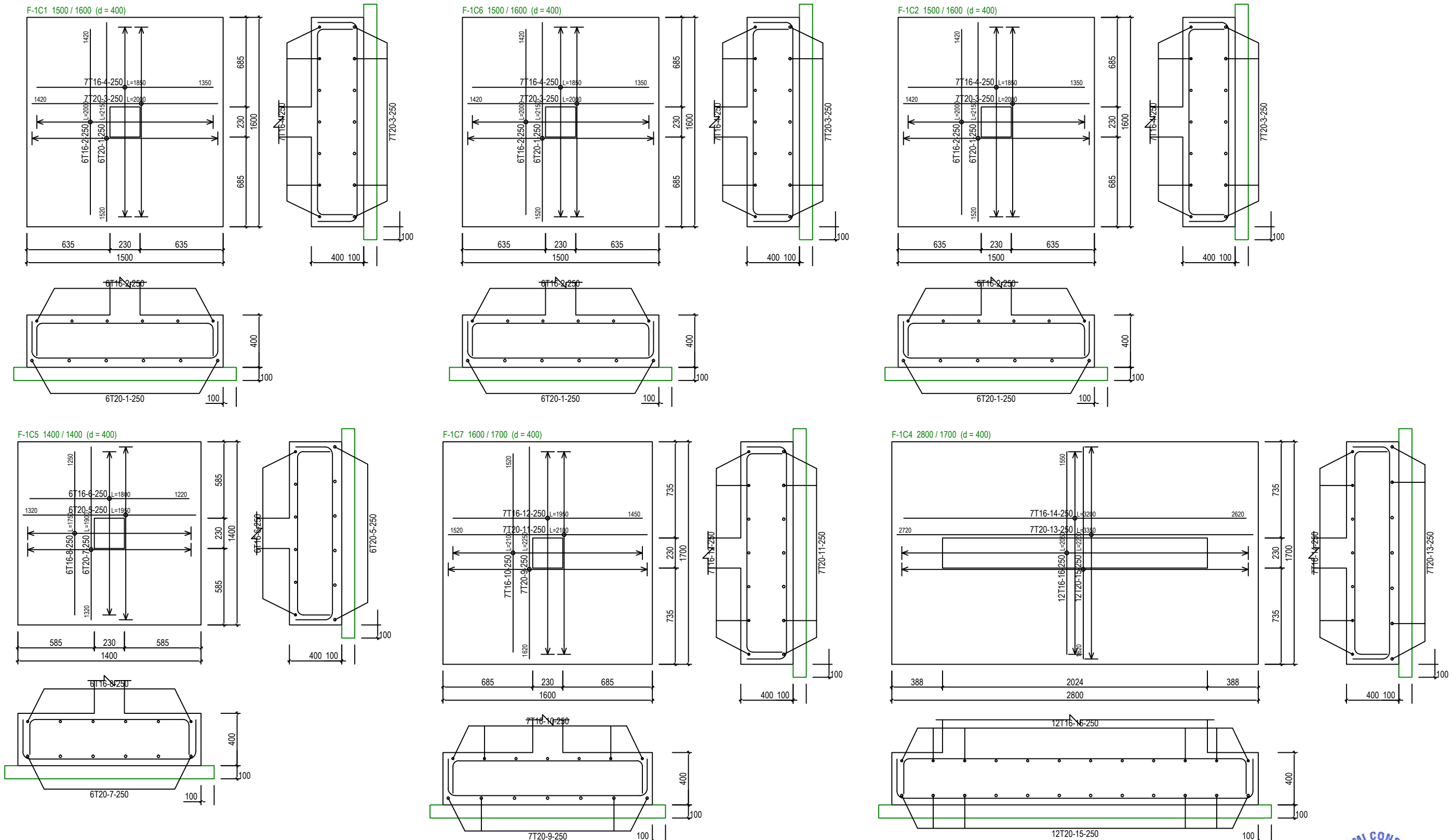
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DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:	1:50
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TITLE:	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 100 kN/m ²]
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2

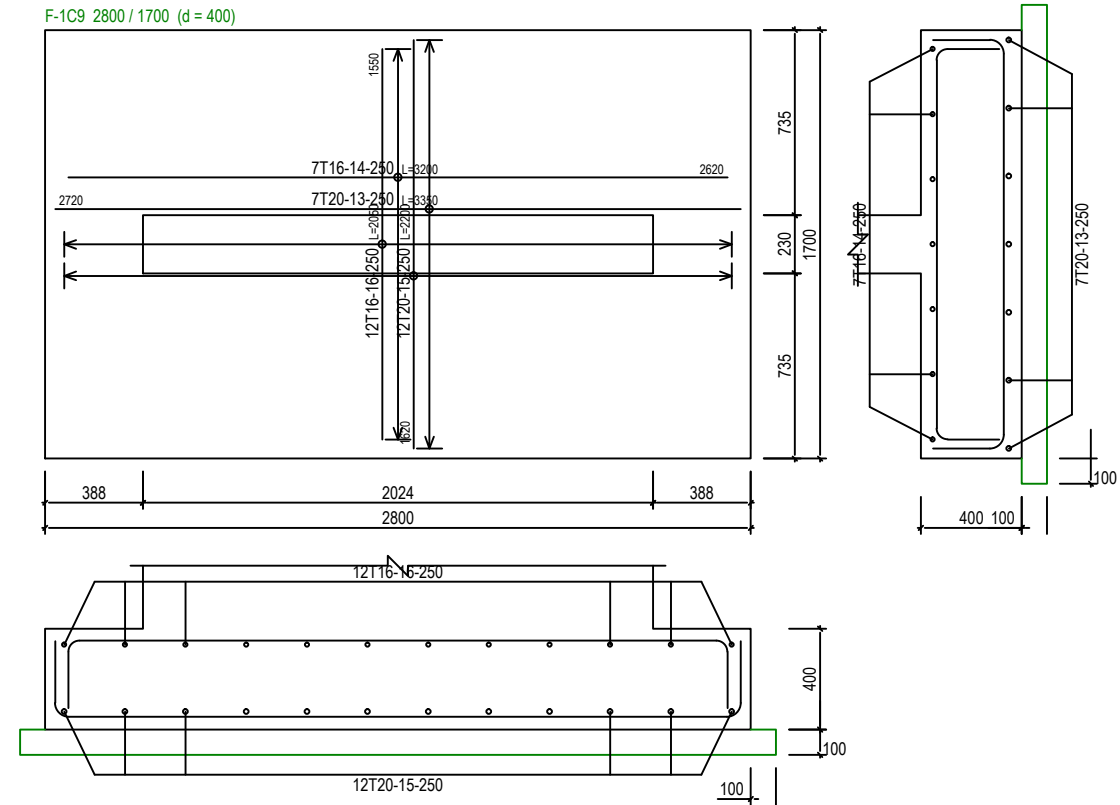
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PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 100 kN/m^2]
 SCALE 1:30



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						DRAWN BY	SAI				SHEET NO:			
						CHECKED BY	MD. YUNUS				DRAWING NO:			
						APPROVED BY		DATE			14/09/2022	PROJECT: PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2	SBC/Q366/AFLO/5PO2/ST/CS - 101A	REV:
		NO.	AMENDMENTS	BY	DATE									



PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 100 kN/m²]

SCALE 1:30



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SCALE:

1:30

TITLE:

PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 100 kN/m²]

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:

SHEET NO:

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PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 kN/m²]

SCALE 1 : 50



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SAI

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MD. YUNUS

APPROVED BY

DATE

14/09/2022

SCALE:

1:50

TITLE:

PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 150 kN/m²]

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2

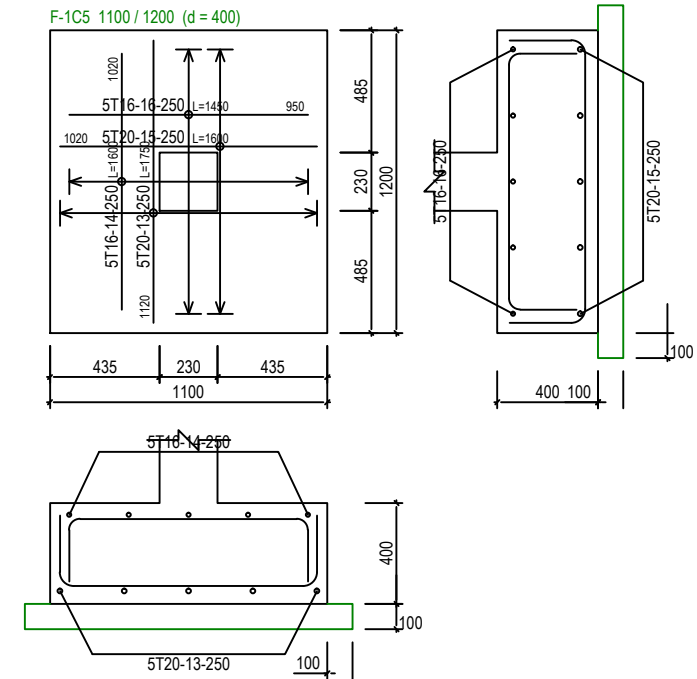
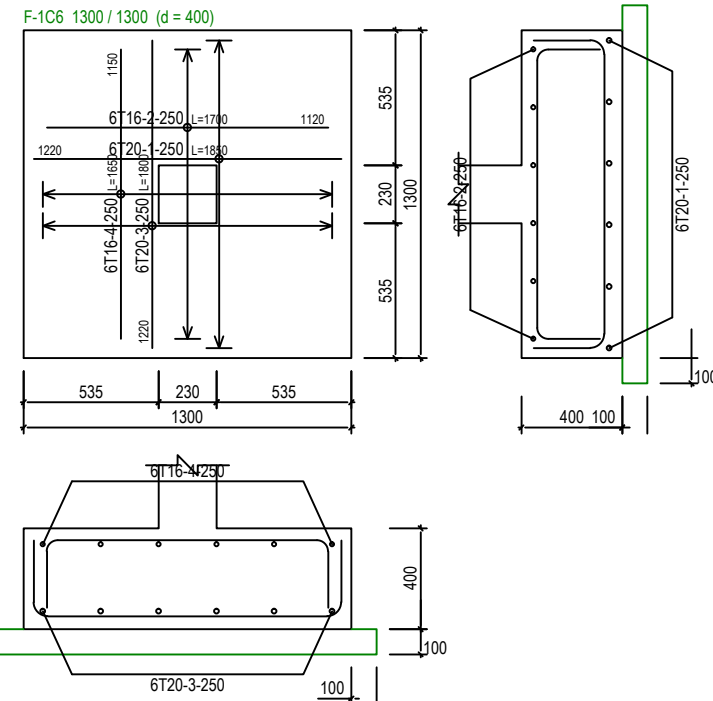
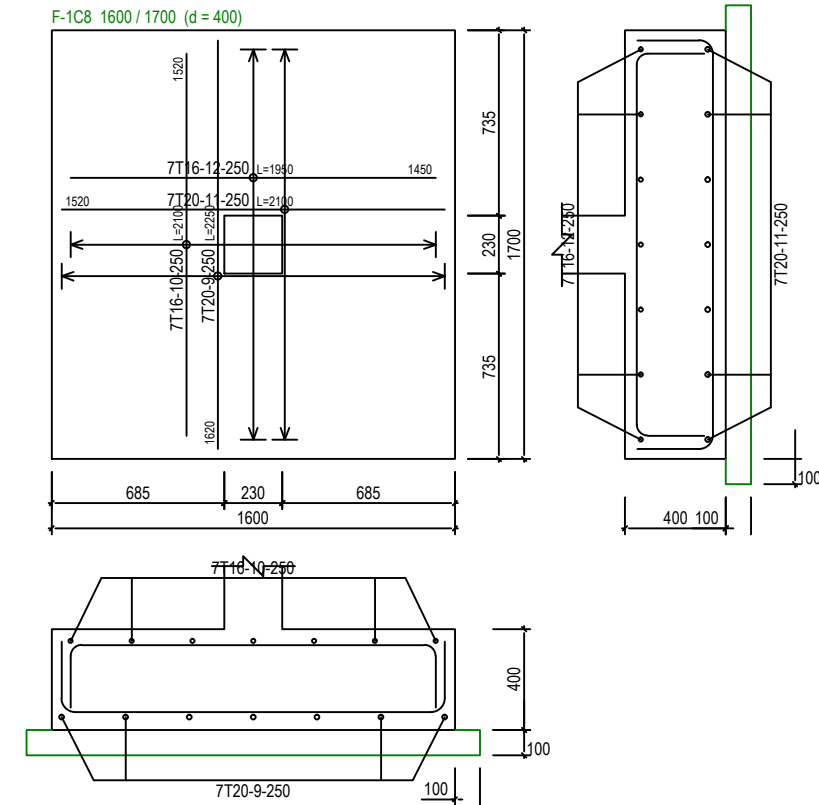
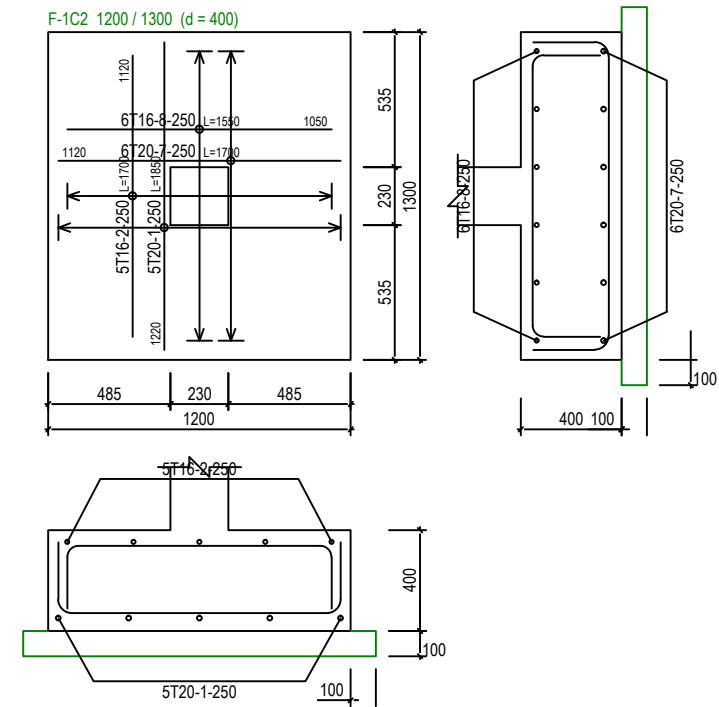
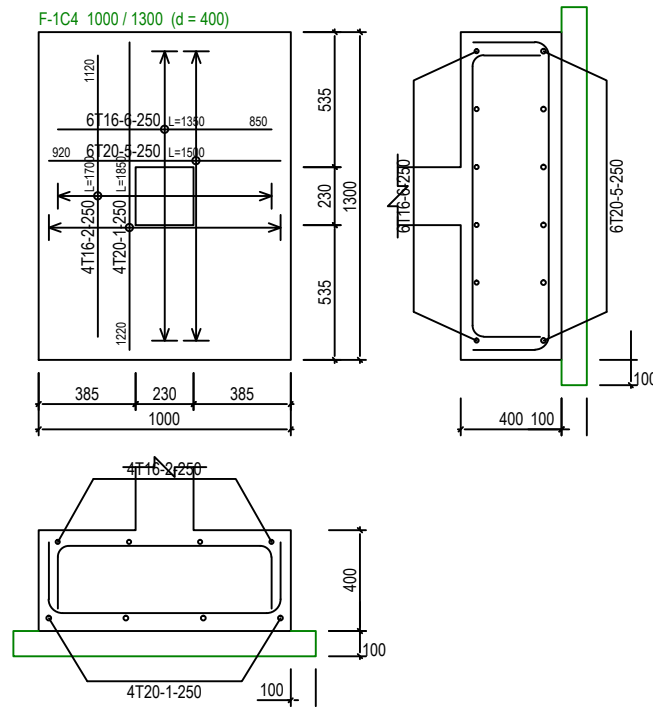
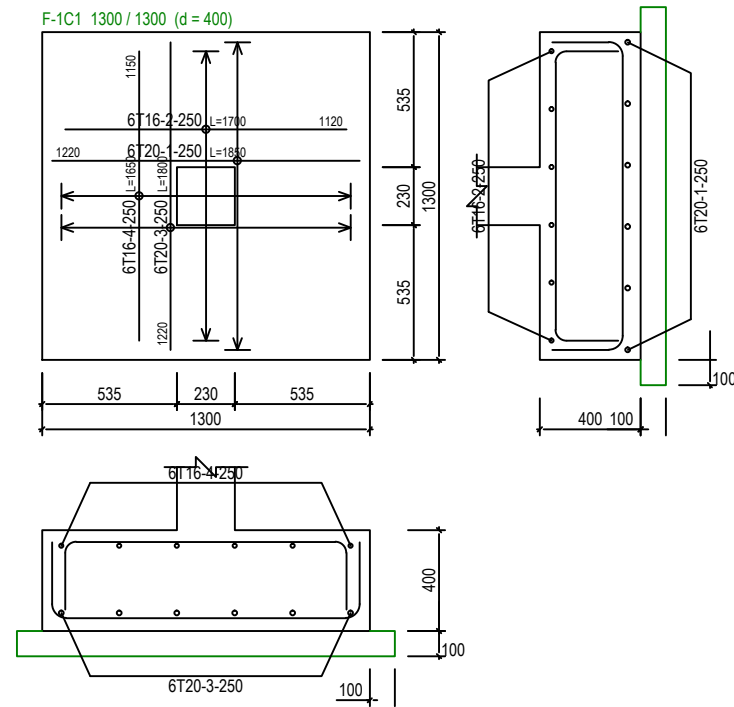
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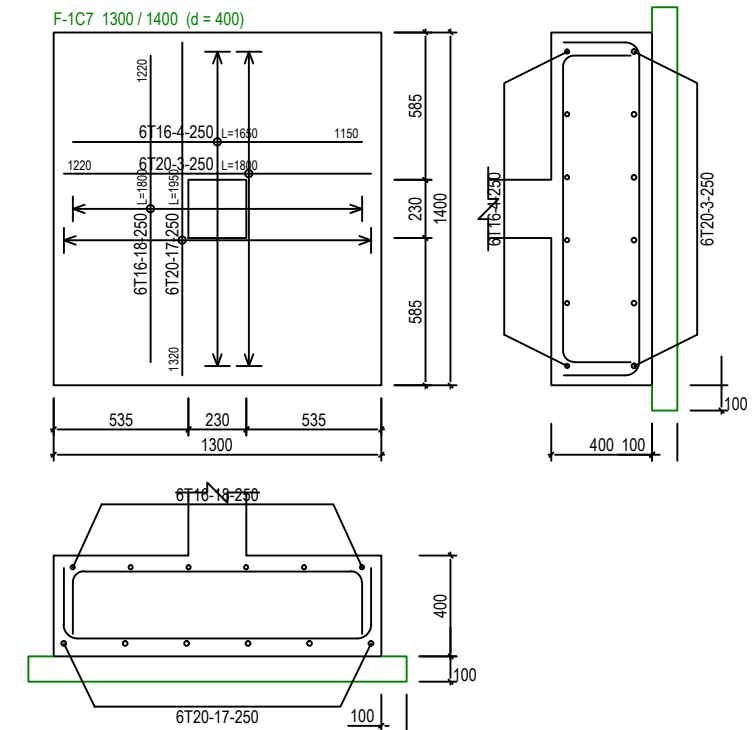
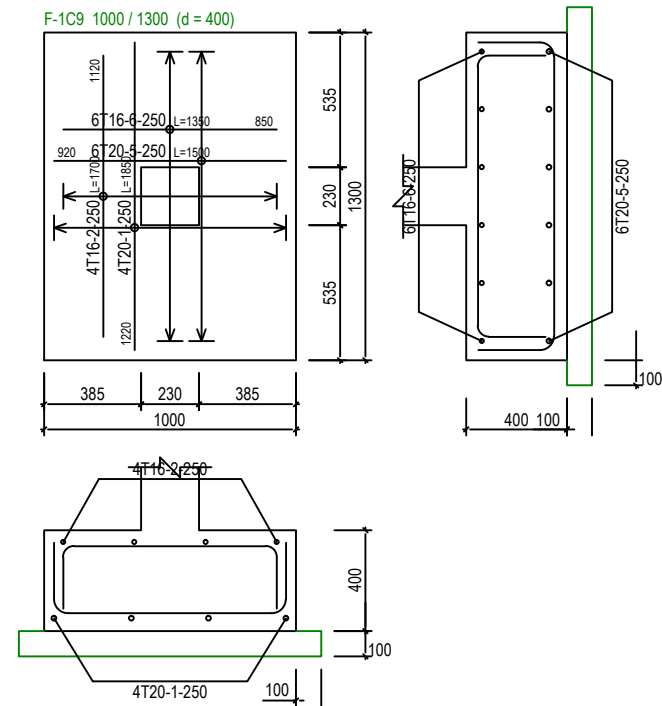
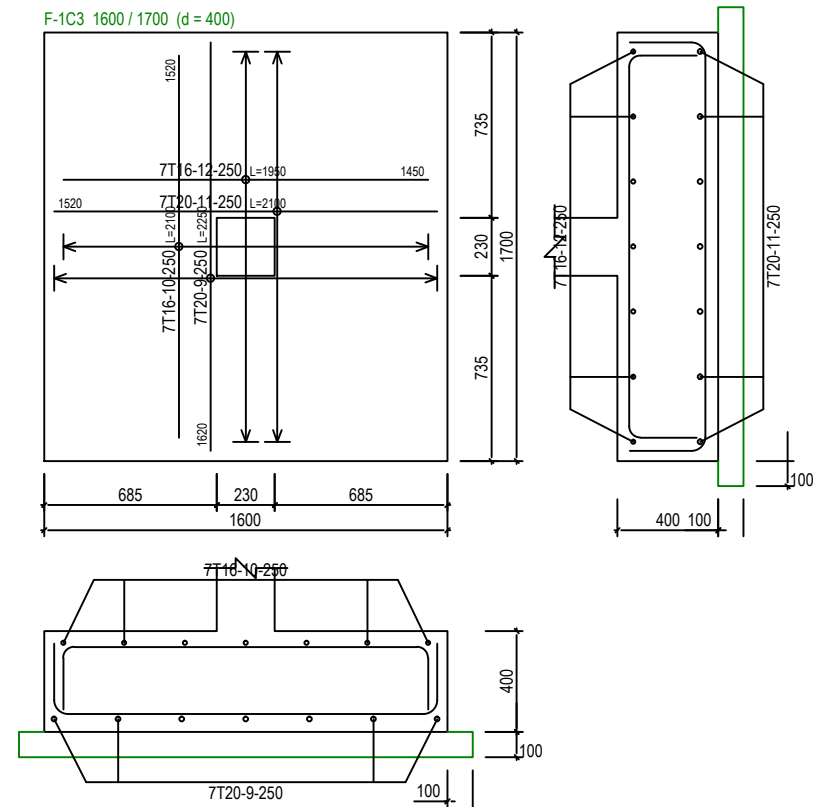
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PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 150 kN/m²] SCALE 1:30



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						DRAWN BY	SAI				SHEET NO:		
						CHECKED BY	MD. YUNUS			PROJECT:		DRAWING NO:	REV:
						APPROVED BY			DATE	14/09/2022	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2	SBC/Q366/AFLO/5PO2/ST/CS - 102A	
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PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 150 kN/m²]

SCALE 1:30



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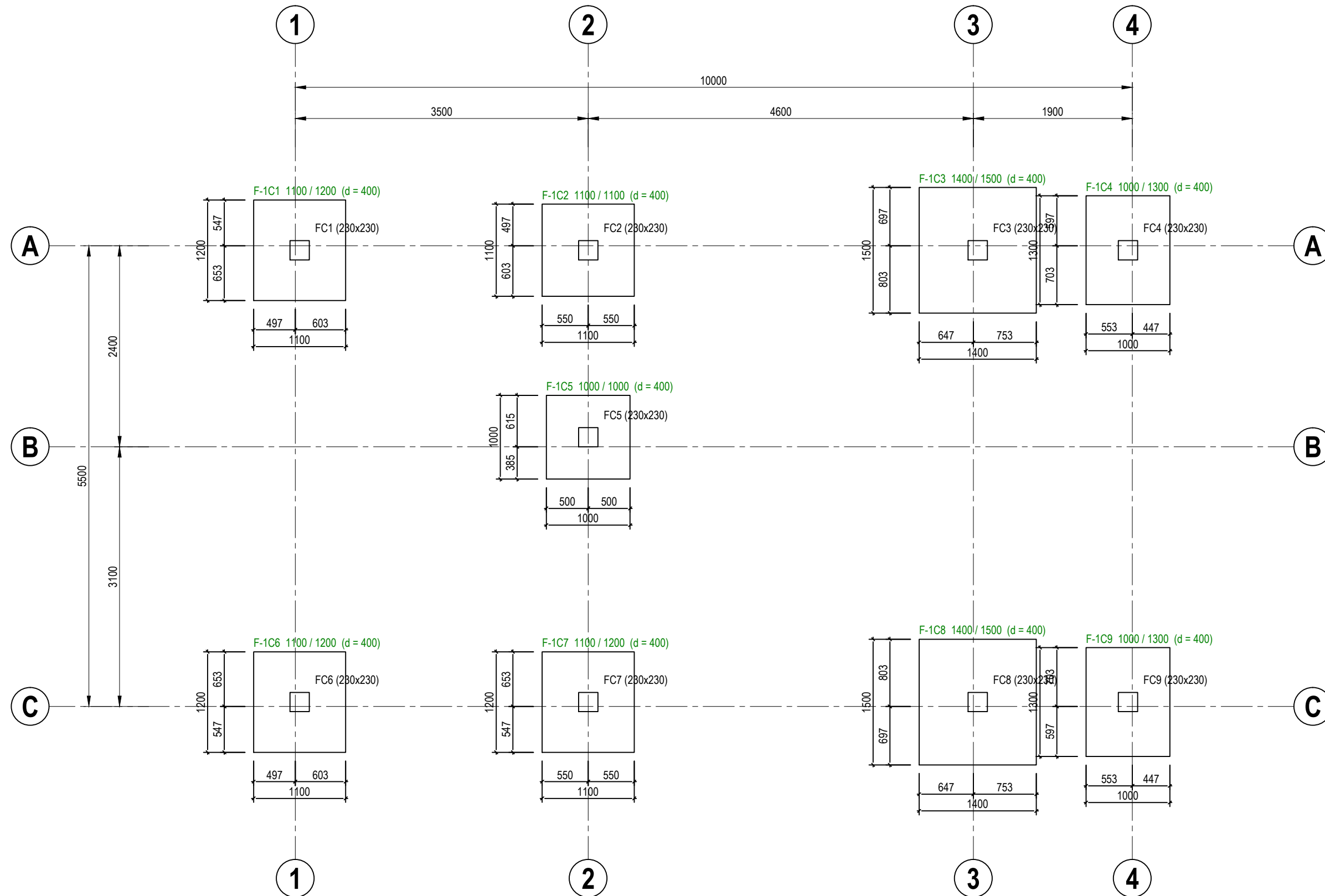
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:
1:30

TITLE:
PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 150 kN/m²]
 PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
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PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 kN/m²]

SCALE 1 : 50



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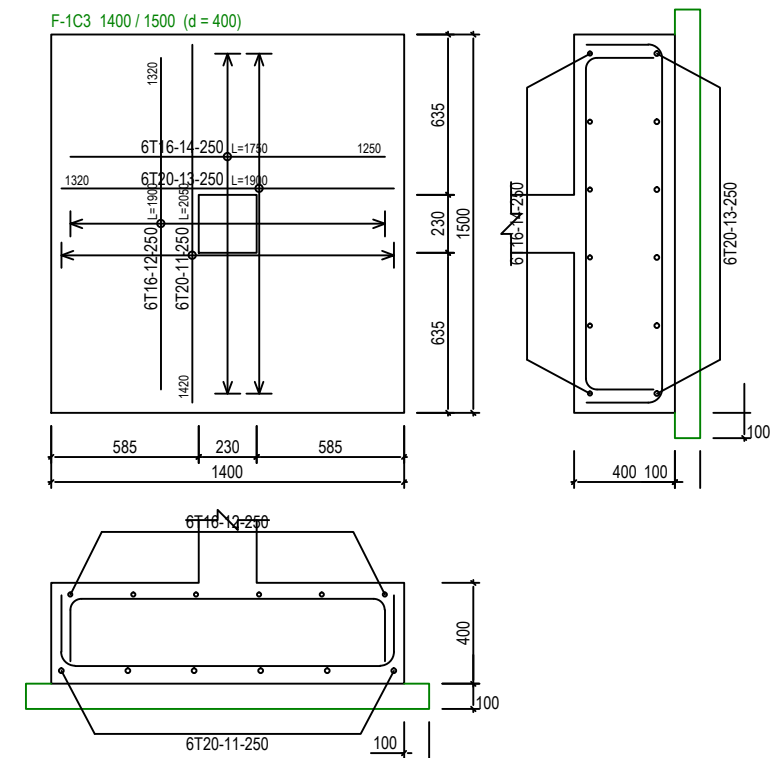
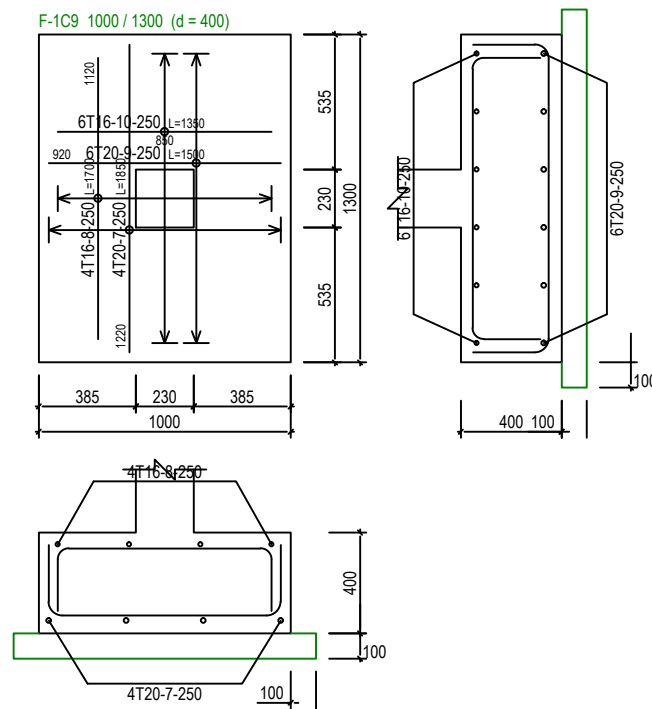
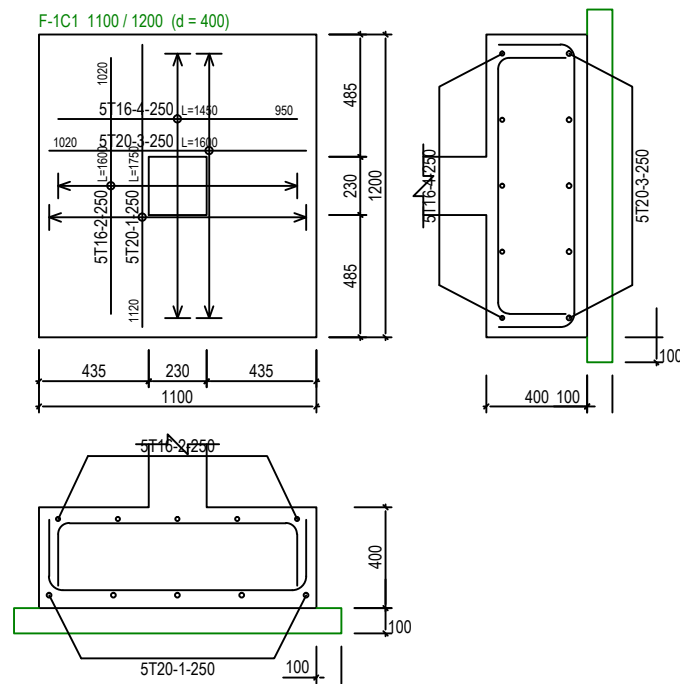
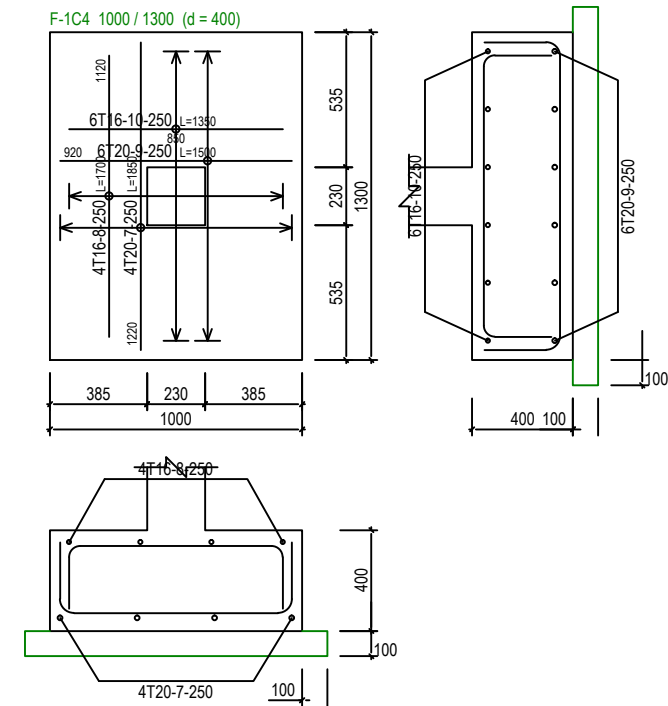
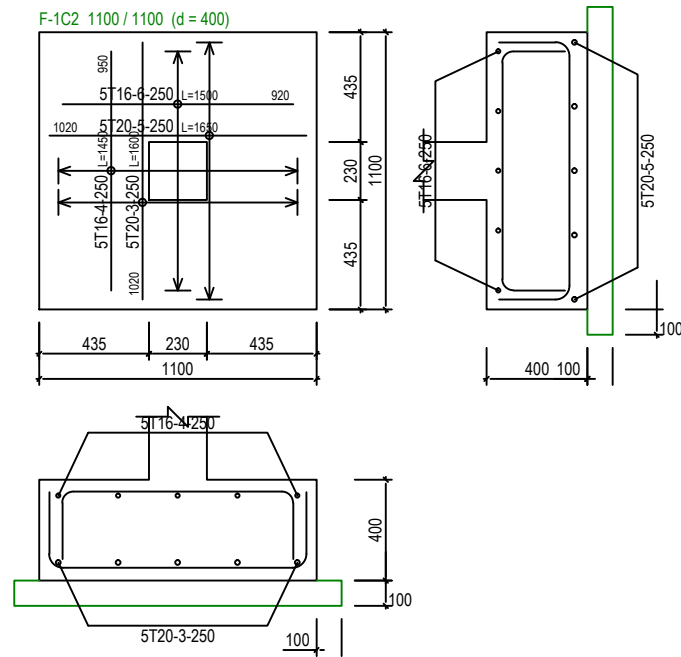
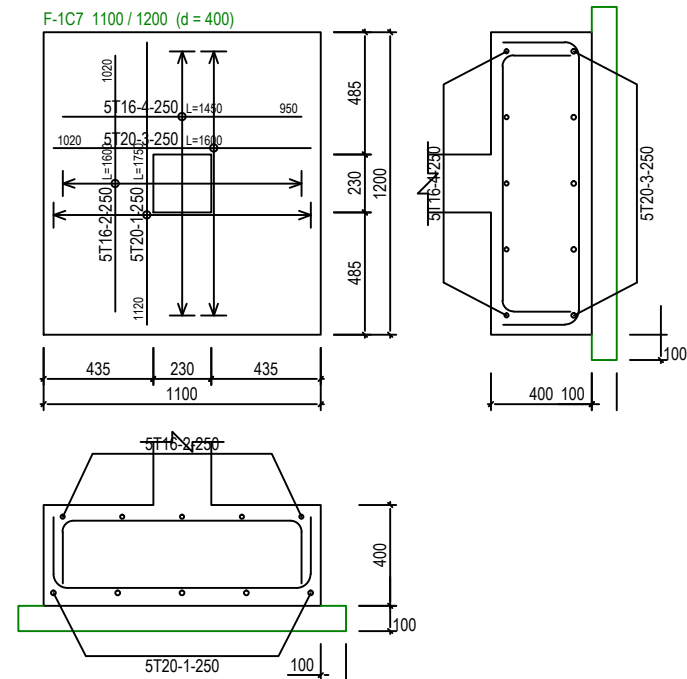
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:
1:50

TITLE:	PAD FOOTING FOUNDATION LAYOUT PLAN [ALLOWABLE STRESS OF SOIL 200 kN/m ²]
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/ST/CS - 103
REV:	



PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 200 kN/m²] SCALE 1:30



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E-MAIL: sbc@brunei@gmail.com

CLIENT:

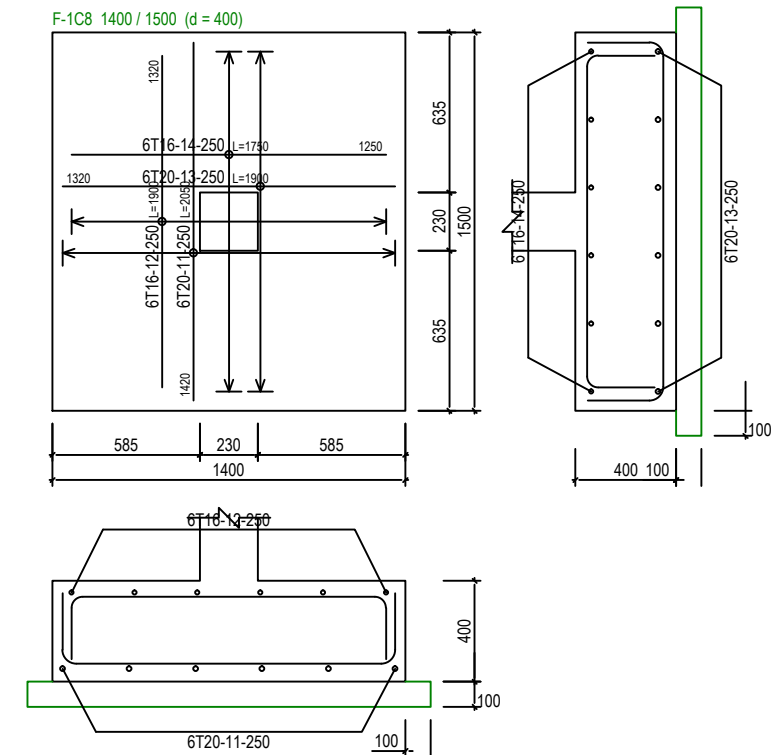
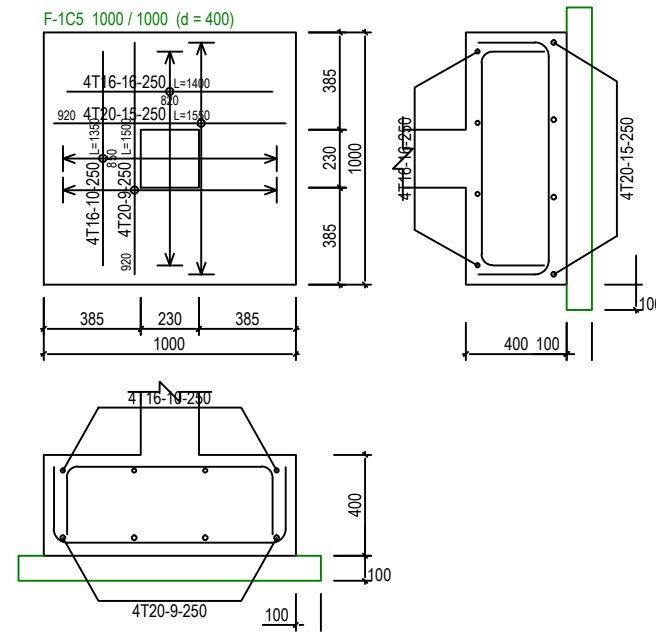
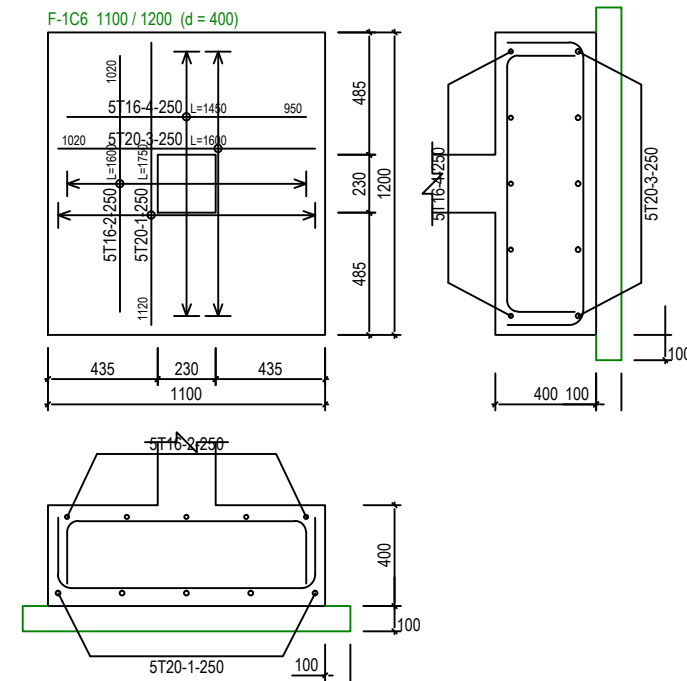
NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:
1:30

TITLE:
PAD FOOTING DETAILS - 1 [ALLOWABLE STRESS OF SOIL 200 kN/m²]
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/ST/CS - 103A
REV:	



PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 200 kN/m²]

SCALE 1:30



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 TEL: 673-2427275 FAX: 673-2427279
 E-MAIL: sbc@brunei@gmail.com

CLIENT:

NO.	AMENDMENTS	BY	DATE

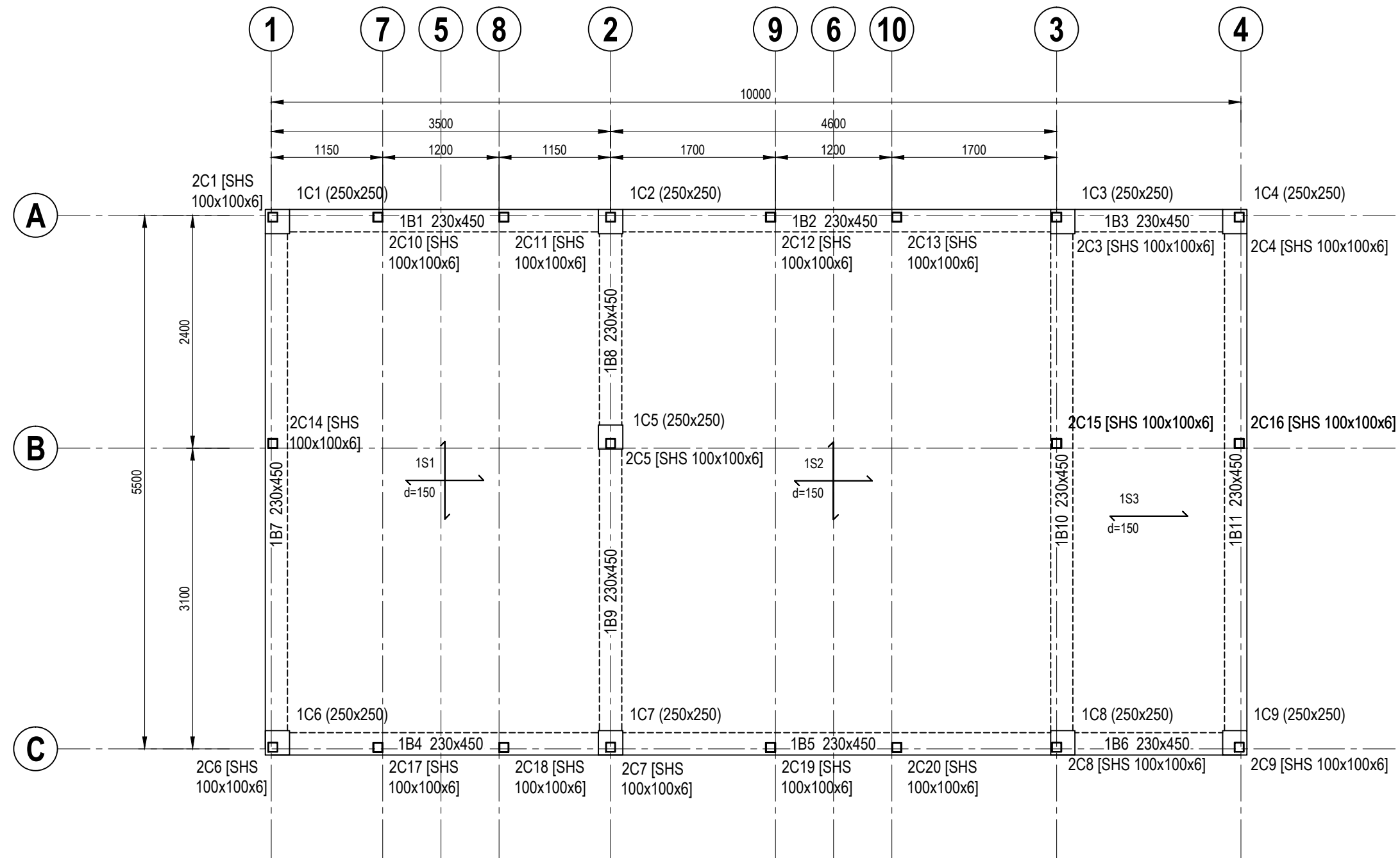
DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:
1:30

TITLE:	PAD FOOTING DETAILS - 2 [ALLOWABLE STRESS OF SOIL 200 kN/m ²]
PROJECT:	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/ST/CS - 103B
REV:	

St: 2 (+4.00m)		A-1		A-2		A-3		A-4		B-2		C-1
		2C1 [SHS 100x100x6]		2C2 [SHS 100x100x6]		2C3 [SHS 100x100x6]		2C4 [SHS 100x100x6]		2C5 [SHS 100x100x6]		2C6 [SHS 100x100x6]
St: 1 (+1.00m)		1C1		1C2		1C3		1C4		1C5		1C6
St: 2 (+4.00m)		C-2		C-3		C-4						
		2C6 [SHS 100x100x6]		2C8 [SHS 100x100x6]		2C9 [SHS 100x100x6]						
St: 1 (+1.00m)		1C7		1C8		1C9						
								</				



GROUND FLOOR BEAM LAYOUT PLAN
SCALE 1 : 50



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CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY

THAN ZAW TUN

DRAWN BY

SAI

CHECKED BY

MD. YUNUS

APPROVED BY

DATE

14/09/2022

SCALE:

1:50

TITLE:

GROUND FLOOR BEAM LAYOUT PLAN

PROJECT:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2

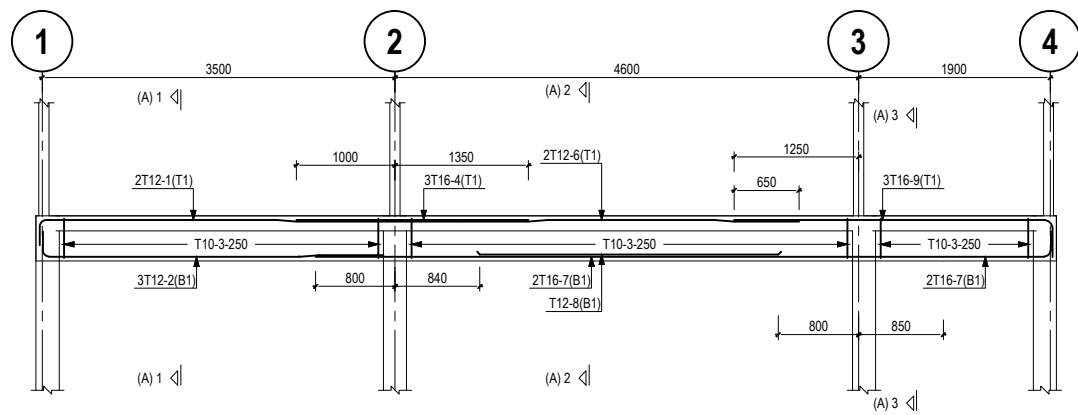
JOB NO:

SHEET NO:

DRAWING NO:

SBC/Q366/AFLQ/5PO2/ST/CS - 200

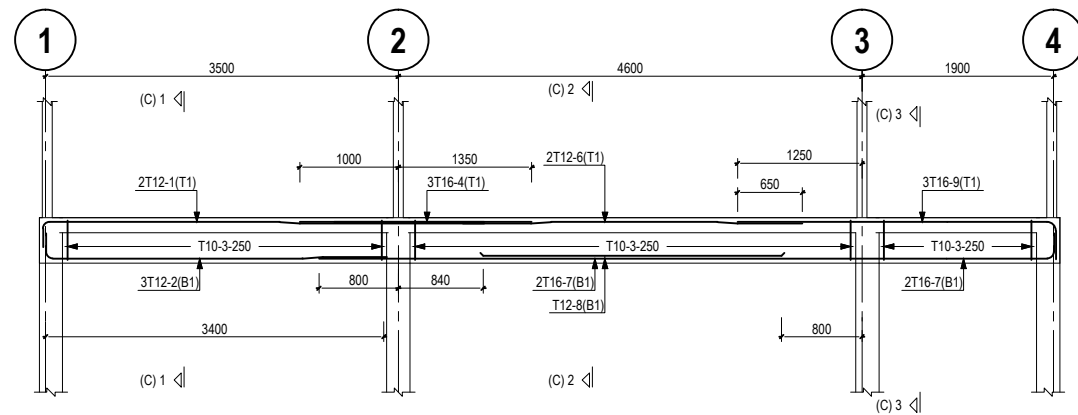
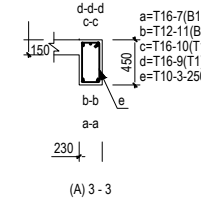
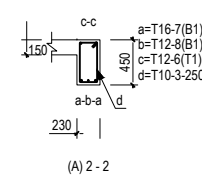
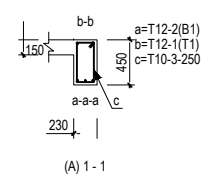
REV:



1B1 (230x450)

1B2 (230x450)

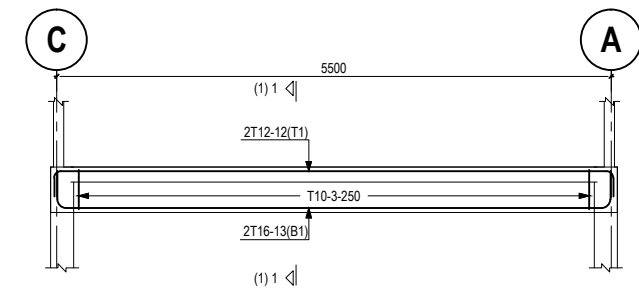
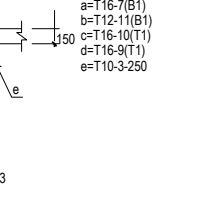
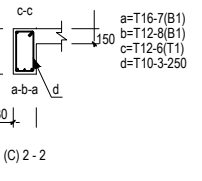
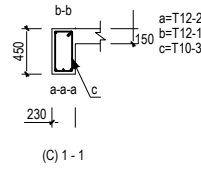
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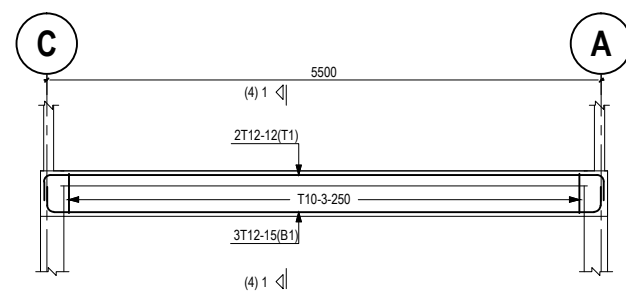
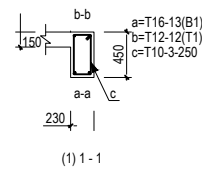
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1B5 (230x450)

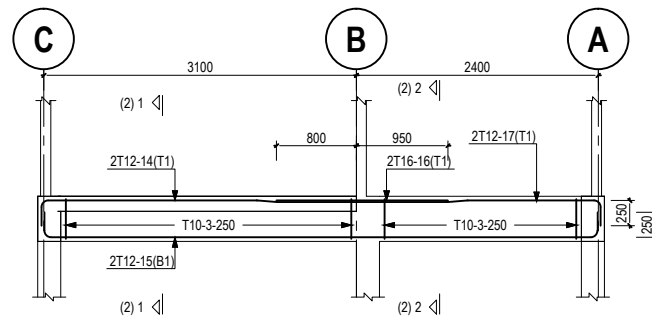
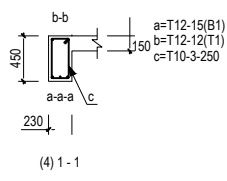
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1B7 (230x450)

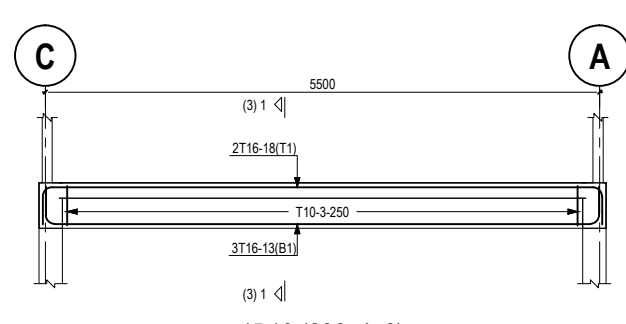
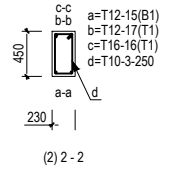
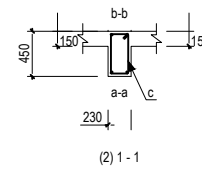


1B11 (230x450)

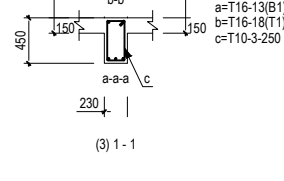


1B9 (230x450)

1B8 (230x450)



1B10 (230x450)



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CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:
1:75

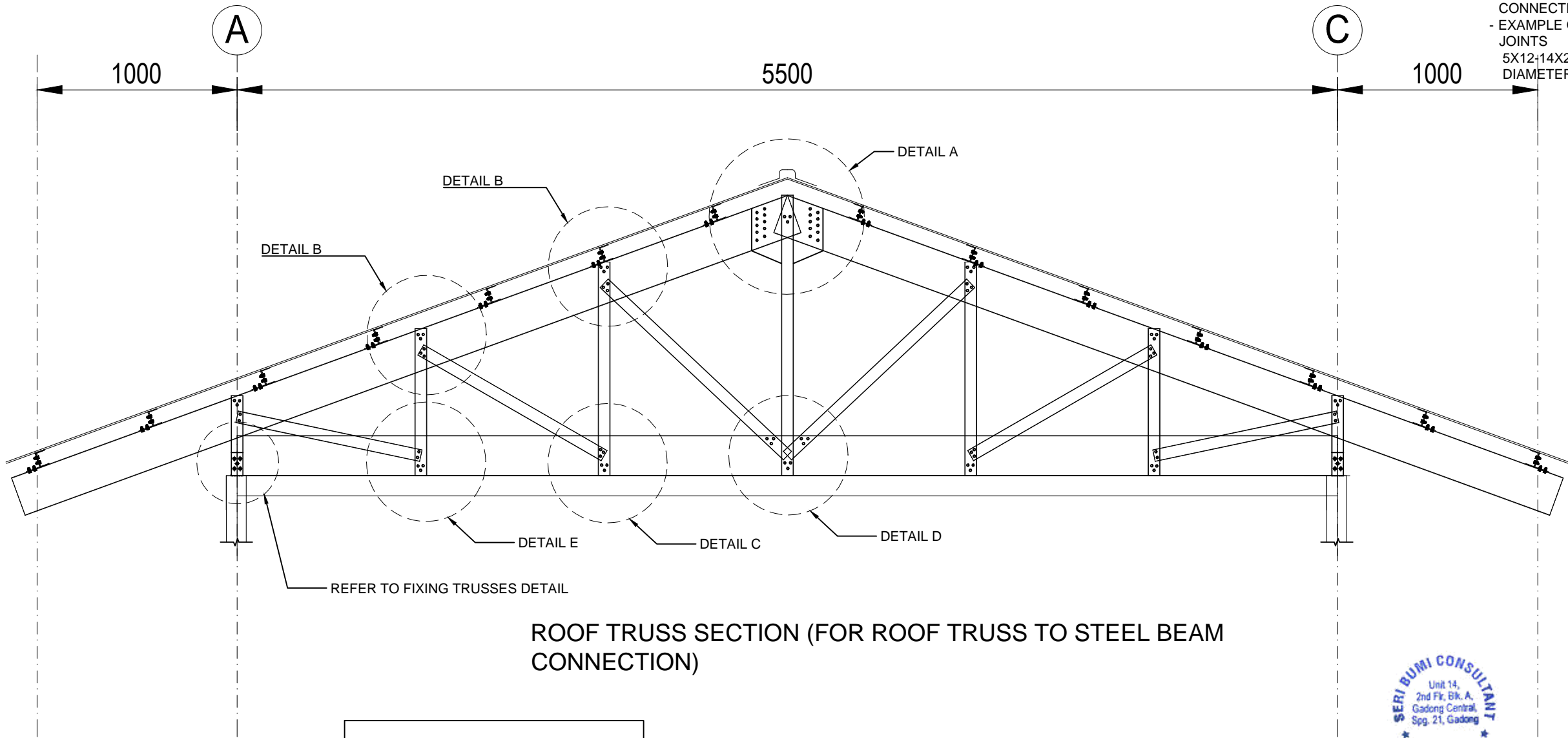
TITLE:
GROUND FLOOR BEAM DETAILS
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 2

JOB NO:	
SHEET NO:	
DRAWING NO:	SBC/Q366/AFLQ/5PO2/ST/CS - 201
REV:	

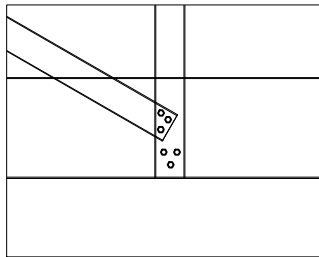
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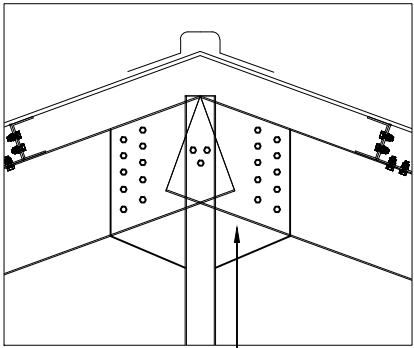
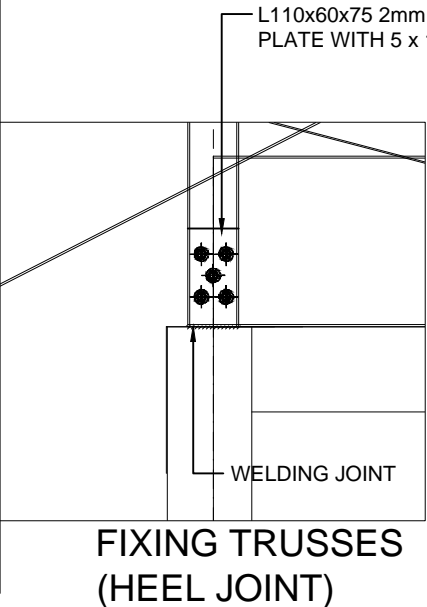
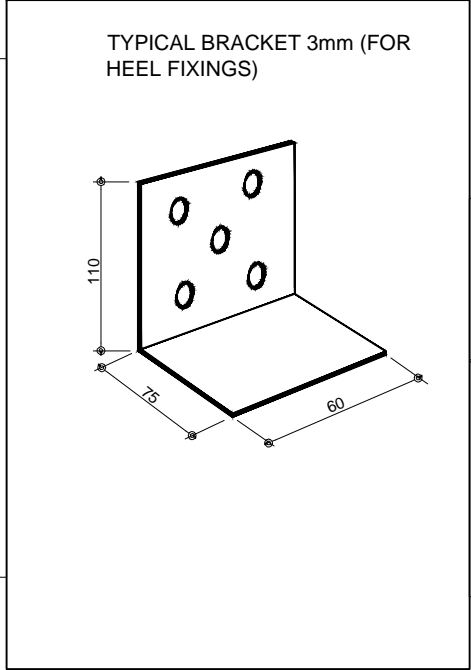
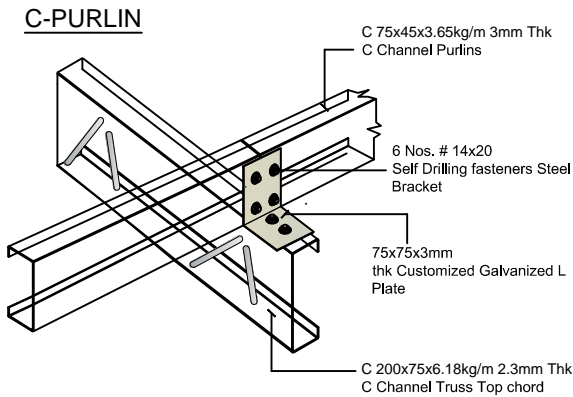
NOTE:
- ONLY SUITABLE AND APPROVED SCREWS BY APPOINTED SUPERVISION CONSULTANT TO BE USED FOR ROOF TRUSSES MEMBERS CONNECTION.
- EXAMPLE OF SCREW LABELLING FOR VARIOUS JOINTS
5X12-14X20 MEANS 5 NOS OF 12 TO 14MM DIAMETER OF 20MM LENGTH SCREW TYPE.



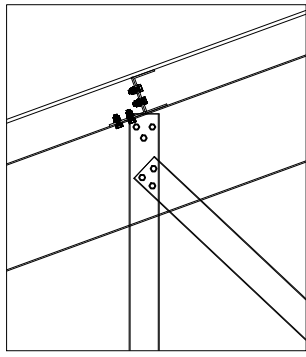
ROOF TRUSS SECTION (FOR ROOF TRUSS TO STEEL BEAM CONNECTION)



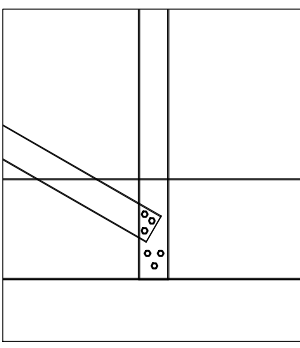
DETAIL E
5 x 12-14 x 20
SCREW



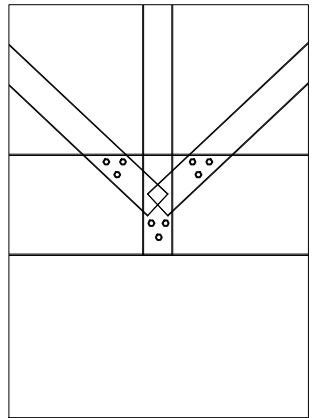
DETAIL A
23 x 12-14 x 20
SCREW



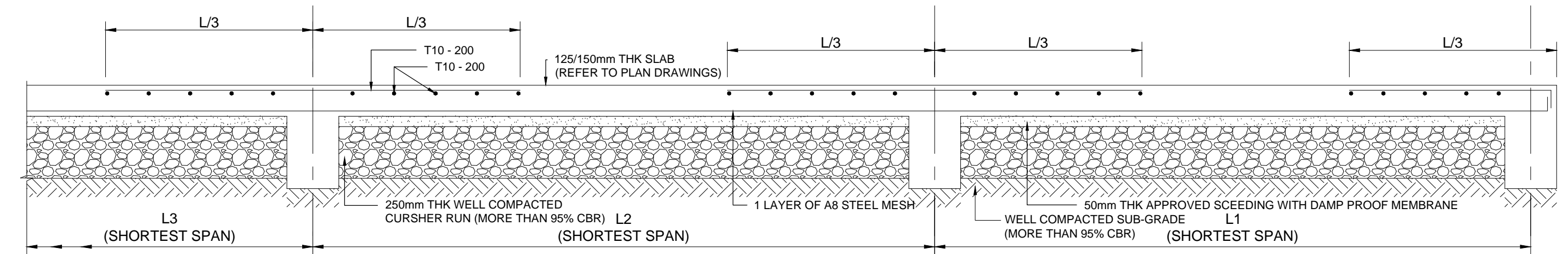
DETAIL B
6 x 12-14 x 20
SCREW



DETAIL C
6 x 12-14 x 20
SCREW

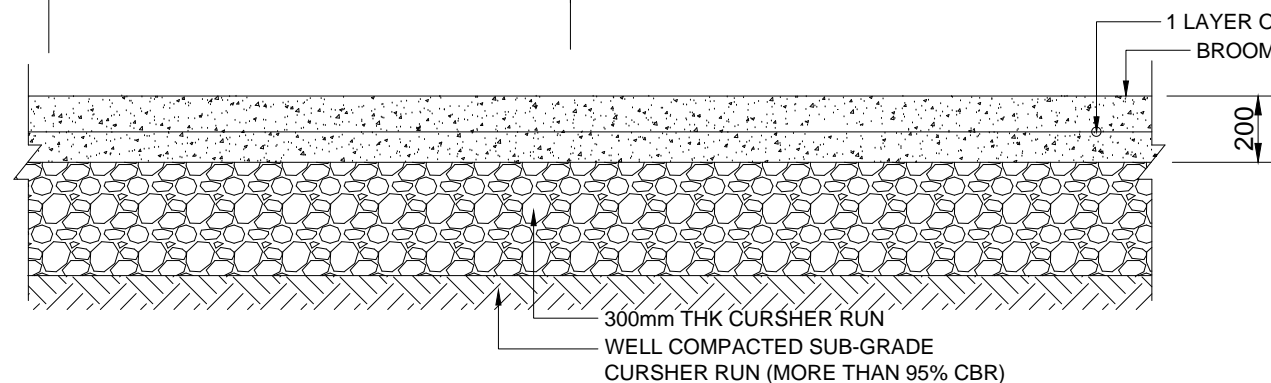


DETAIL D
9 x 12-14 x 20
SCREW



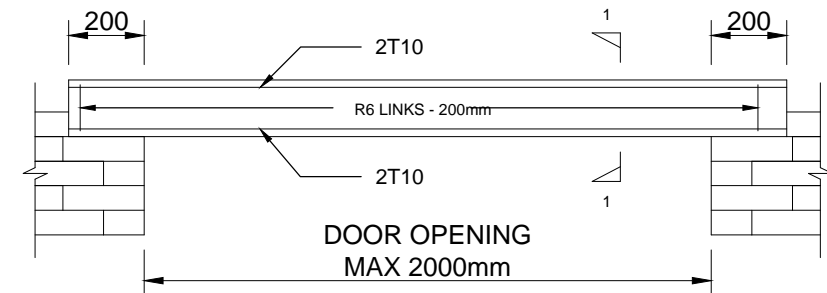
TYPICAL GROUND FLOOR SLAB DETAIL

SCALE 1 : 20



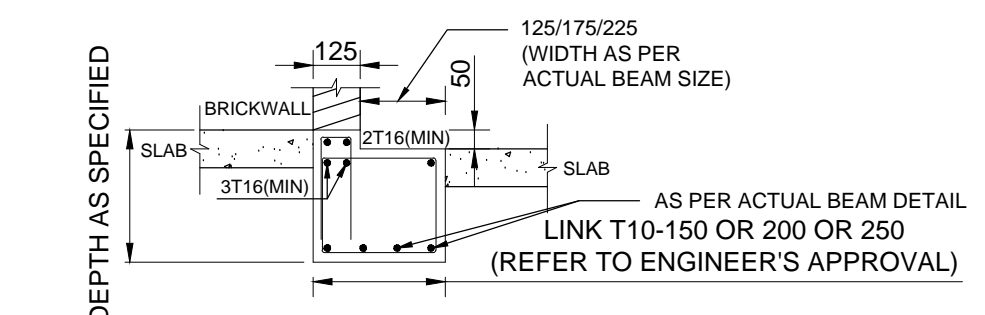
TYPICAL NON SUSPENDED SLAB DETAIL

SCALE 1 : 20

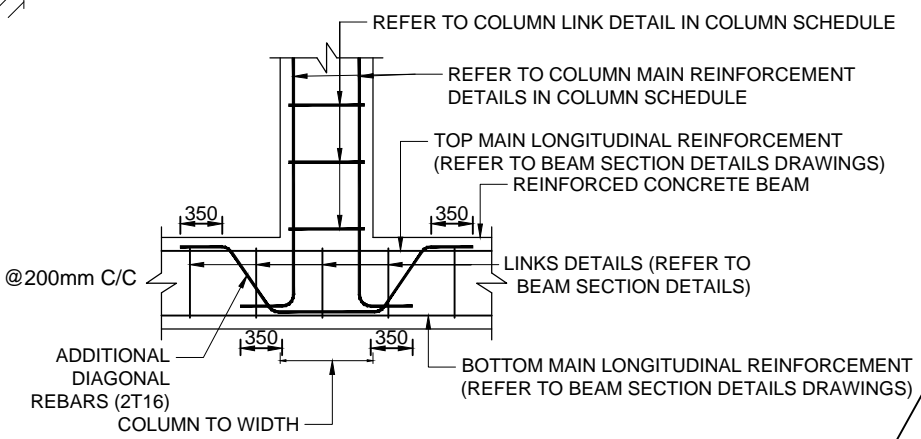


TYPICAL LINTEL BEAM DETAIL

SCALE 1 : 20

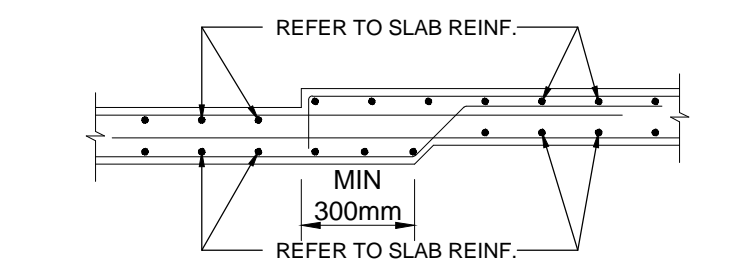


APPROXIMATE & TYPICAL BEAM DETAIL FOR 50mm OR 100mm DROP WHICH NEEDS TO BE ALIGNED/COORDINATED WITH ARCHITECT'S DRAWINGS.



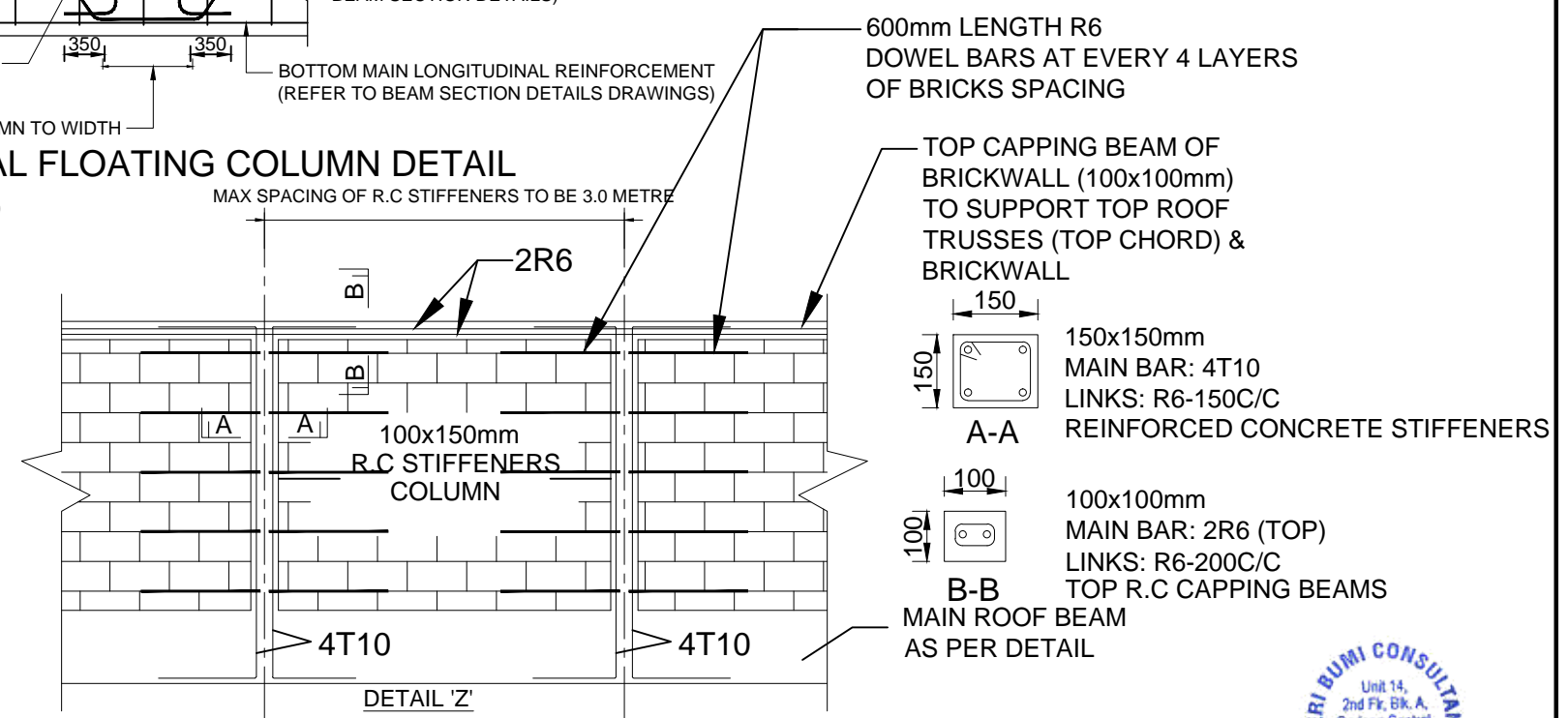
TYPICAL FLOATING COLUMN DETAIL

SCALE 1 : 20



TYPICAL SLAB DETAIL AT DROP AREA

SCALE 1 : 20



TYPICAL REINFORCED CONCRETE STIFFENER COLUMNS & CAPPING BEAMS DETAILS


600mm LENGTH R6 DOWEL BARS AT EVERY 4 LAYERS OF BRICKS SPACING

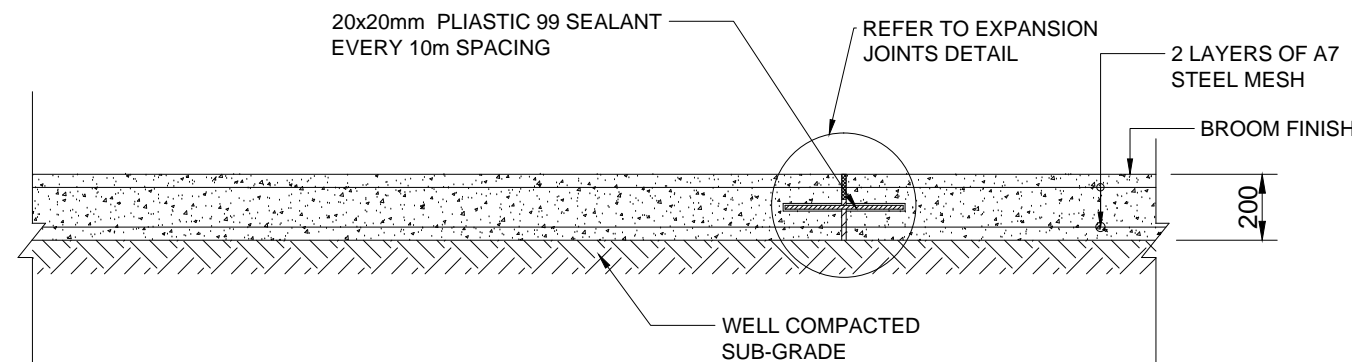
TOP CAPPING BEAM OF BRICKWALL (100x100mm) TO SUPPORT TOP ROOF TRUSSES (TOP CHORD) & BRICKWALL

150x150mm MAIN BAR: 4T10 LINKS: R6-150C/C REINFORCED CONCRETE STIFFENERS

100x100mm MAIN BAR: 2R6 (TOP) LINKS: R6-200C/C TOP R.C CAPPING BEAMS AS PER DETAIL

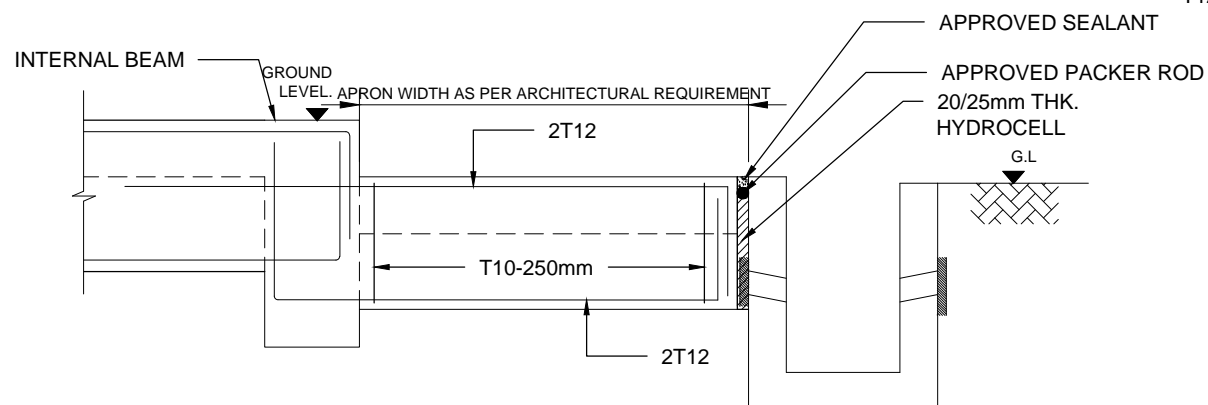


 <p>SERI BUMI CONSULTANT CIVIL & STRUCTURAL ENGINEERING CONSULTANT</p> <p>No: 14, 2nd FLOOR, BLOCK A, GADONG CENTRAL, SIMPANG 21, JALAN GADONG, SSB, BRUNEI DARUSSALAM TEL: 673-2427275 FAX: 673-2427279 E-MAIL: sbc.brunel@gmail.com</p>	<p>CLIENT:</p>	<p>DESIGNED BY: THAN ZAW TUN</p> <p>DRAWN BY: SAI</p> <p>CHECKED BY: MD. YUNUS</p> <p>APPROVED BY: [Signature]</p> <p>DATE: 14/09/2022</p>	<p>SCALE: 1:20</p>	<p>TITLE: MISCELLANEOUS DETAILS 1</p> <p>PROJECT: PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 1</p>	<p>JOB NO:</p> <p>SHEET NO:</p> <p>DRAWING NO: SBC/Q366/AFLO/5PO2/ST/MISC-100</p> <p>REV:</p>
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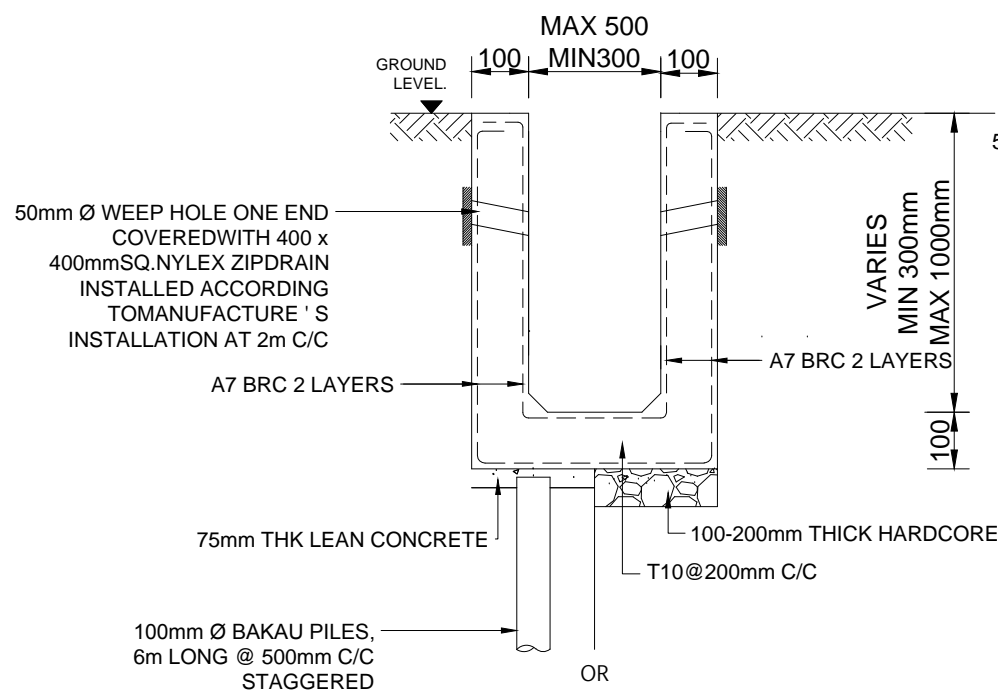
TYPICAL ACCESS ROAD DETAIL/CAR PARK SLAB DETAIL

SCALE 1 : 20



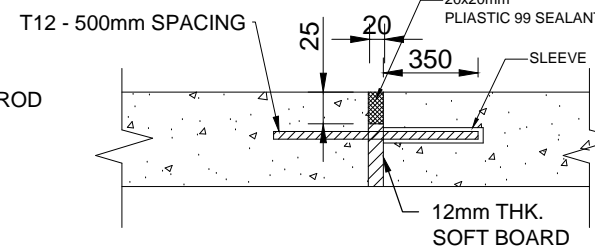
TYPICAL APRON BEAM DETAIL(200x450)

SCALE 1 : 20



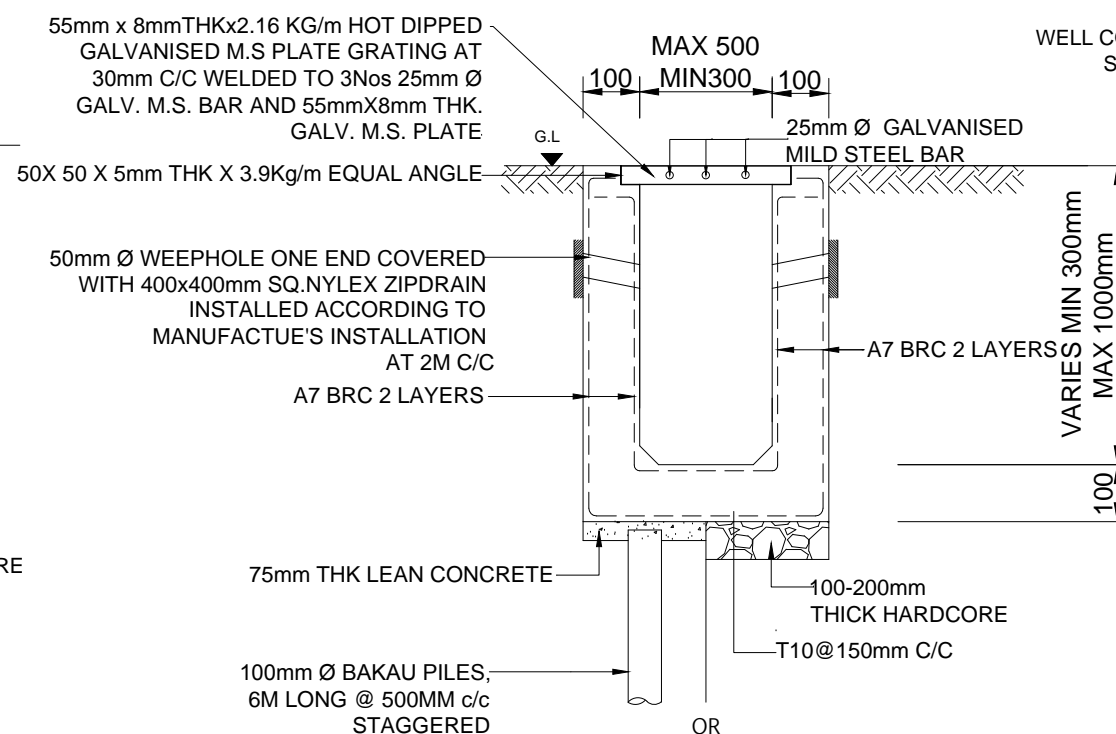
R.C DRAIN DETAIL

SCALE 1 : 20



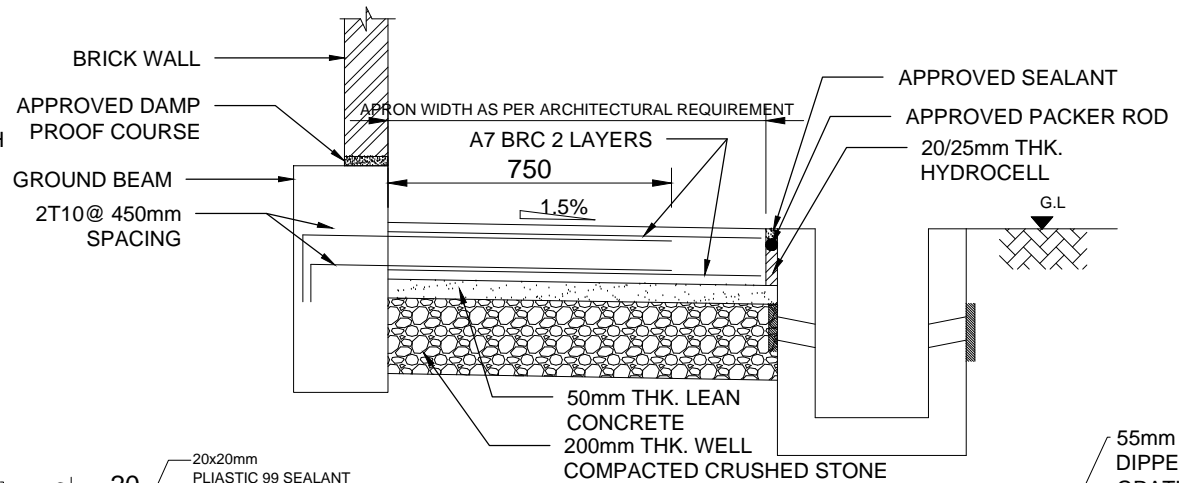
EXPANSION JOINTS DETAIL

SCALE 1 : 20



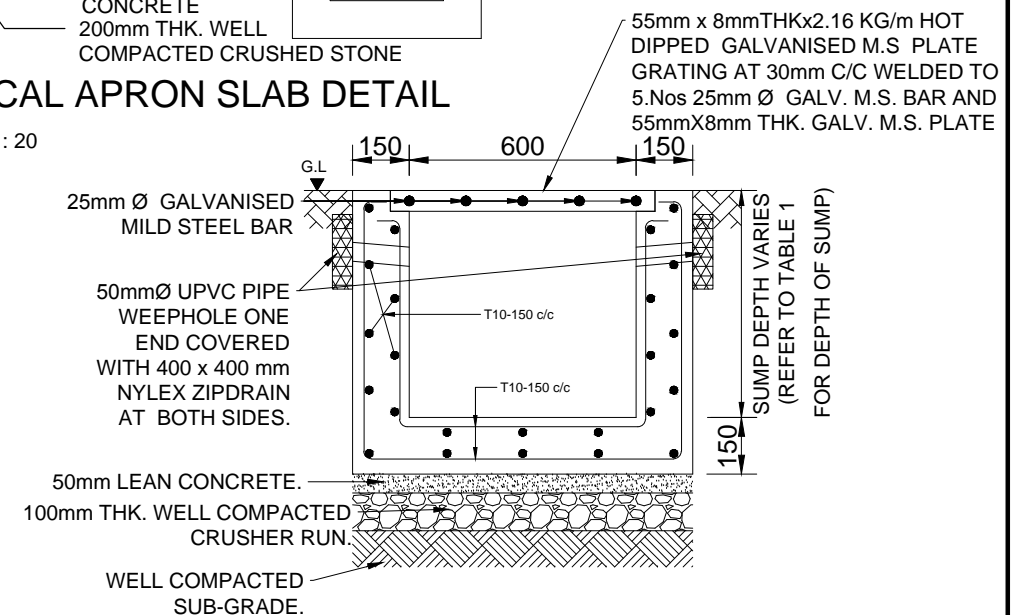
R.C DRAIN WITH GRATING DETAIL

SCALE 1 : 20



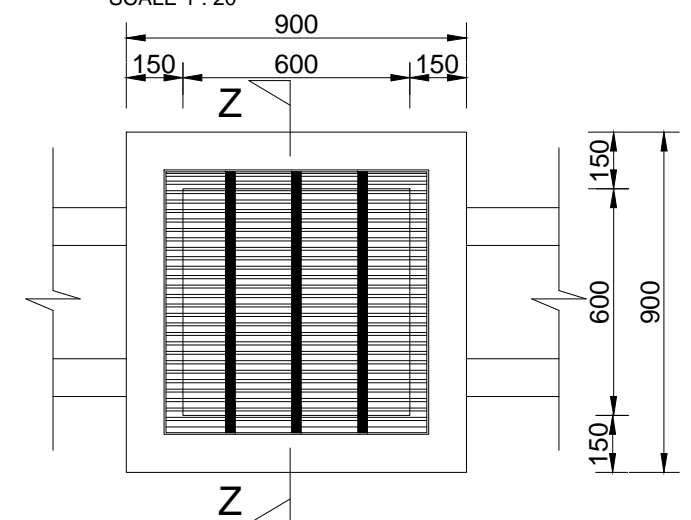
TYPICAL APRON SLAB DETAIL

SCALE 1 : 20



TYPICAL SECTION 'Z-Z'
600x600mm R.C SUMP DETAIL

SCALE 1 : 20



R.C SUMP PLAN LAYOUT

SCALE 1 : 20



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E-MAIL: sbc.brunel@gmail.com

CLIENT:

NO.	AMENDMENTS	BY	DATE

DESIGNED BY	THAN ZAW TUN
DRAWN BY	SAI
CHECKED BY	MD. YUNUS
APPROVED BY	
DATE	14/09/2022

SCALE:
1:20

TITLE:
MISCELLANEOUS DETAILS 2
PROJECT:
PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS,
BRUNEI DARUSSALAM (FOR 5 PERSONS) -OPTION 1




JOB NO:
SHEET NO:
DRAWING NO:
SBC/Q366/AFLQ/5PO2/ST/MISC-101
REV:

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2

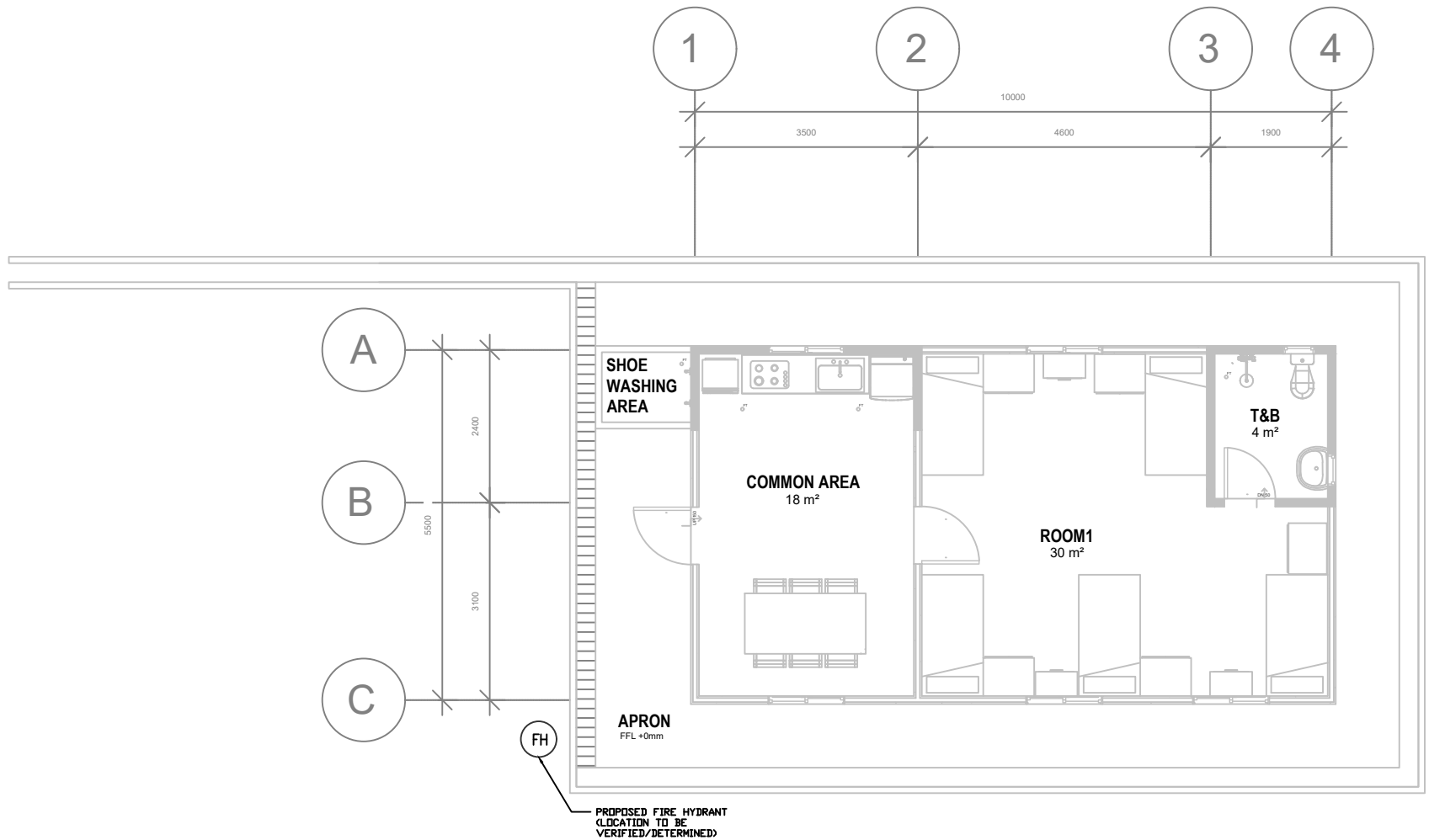
DRAWING LIST

ITEM	DRAWING NUMBER	DRAWING TITLE
1	JOMC/254/FH/100	SITE DEVELOPMENT PLAN FIRE HYDRANT LAYOUT PLAN - (FOR 5 PERSONS OPTION 2)
2	JOMC/254/AC/200	GROUND FLOOR AIR CONDITIONING LAYOUT - (FOR 5 PERSONS OPTION 2)
3	JOMC/254/L/200	GROUND FLOOR LIGHTING LAYOUT - (FOR 5 PERSONS OPTION 2)
4	JOMC/254/P/200	GROUND FLOOR POWER LAYOUT - (FOR 5 PERSONS OPTION 2)
5	JOMC/254/P/300	SOLAR SYSTEM LAYOUT DIAGRAM - (FOR 5 PERSONS OPTION 2)
6	JOMC/254/F/200	GROUND FLOOR FIRE PROTECTION LAYOUT - (FOR 5 PERSONS OPTION 2)
7	JOMC/254/T/200	GROUND FLOOR TELEPHONE LAYOUT - (FOR 5 PERSONS OPTION 2)
8	JOMC/254/T/300	TELEPHONE SYSTEM SCHEMATIC DIAGRAM - (FOR 5 PERSONS OPTION 2)
9	JOMC/254/W/200	GROUND FLOOR PLUMBING LAYOUT - (FOR 5 PERSONS OPTION 2)
10	JOMC/254/W/300	PLUMBING SCHEMATIC DIAGRAM - (FOR 5 PERSONS OPTION 2)
11	JOMC/254/SEW/200	GROUND FLOOR SANITARY LAYOUT - (FOR 5 PERSONS OPTION 2)
12	JOMC/254/SEW/300	SANITARY SCHEMATIC DIAGRAM - (FOR 5 PERSONS OPTION 2)
13	JOMC/254/SEW/301	SANITARY SEWER LINE INVERT LEVEL - (FOR 5 PERSONS OPTION 2)

\\JDKC\DATA\BANK\Share\JDKC\Projects\254 - Design Services for Agricultural Farm Labour Quarters (M&E)\Drawings\2. Workshop drawings\220906\REV\JOMC-254-5 PERSONS OPT2-M&E.dwg 13 September, 2022 - 3:19 PM

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					DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM	 KHA Arkitek P.O Box 272 MPC, Old Airport, Seremban 703122 Contact No: 2810380	 Jurutera OMC Chartered Engineers Engineering Consultant, Design, Management & Services 2nd Floor, Unit 17 & 18, Block C, Melabau Complex, Jalan Serusop, BB2313, B. S. B. Brunei Darussalam Tel : 673-2342688 Fax : 673-2342483 Email : juruteraomc@yahoo.com	 CHIN LEE TUCK REGISTRATION NO. BAPEQSP/2022007-E	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2	DRAWING LIST - SHEET 1 OF 1 - (FOR 5 PERSONS OPTION 2)
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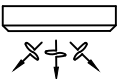
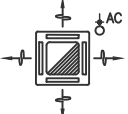

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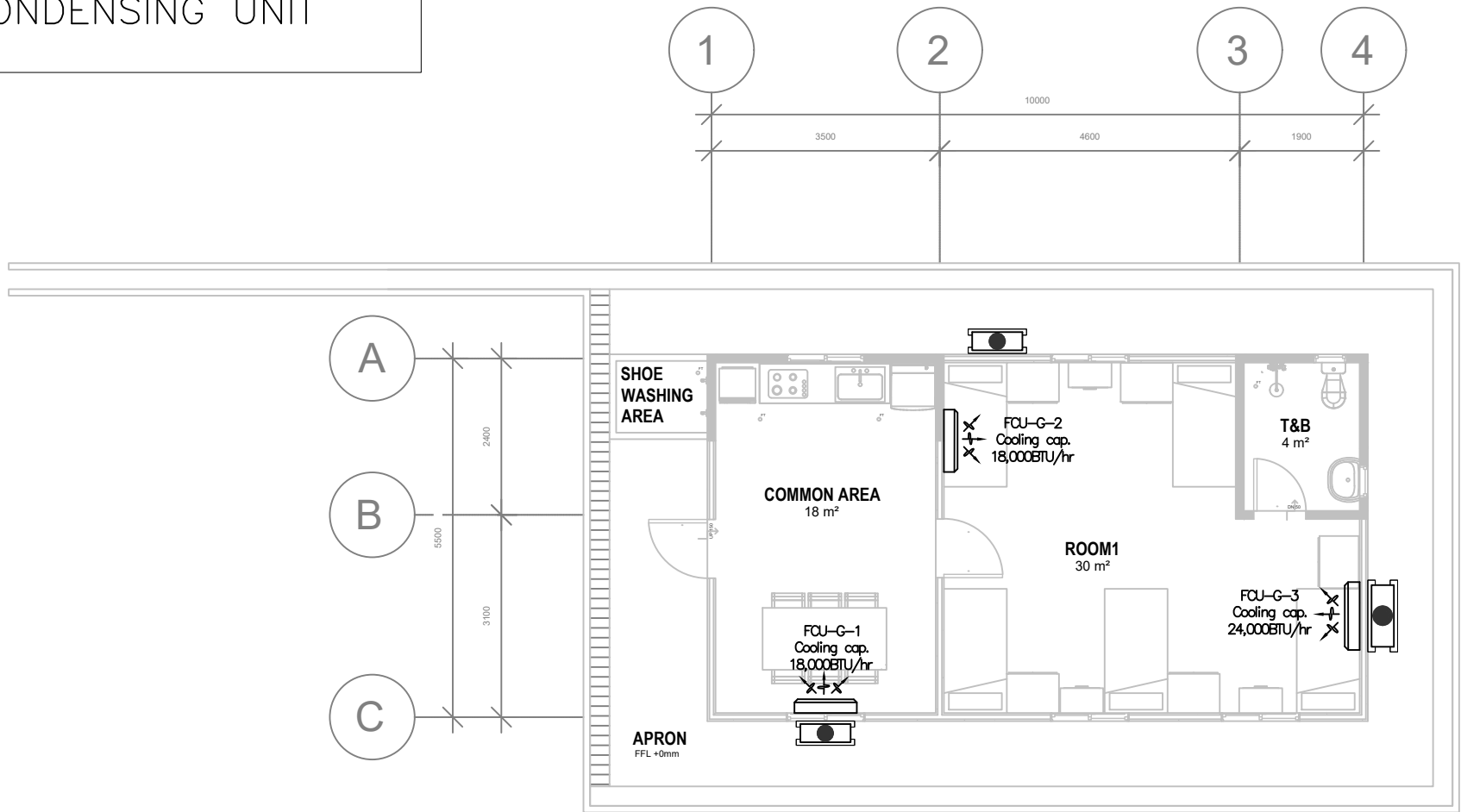


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						DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM	<div><div><div><div>KHA</div><div>arkitek</div></div><div><div>Contract No: 2810380</div></div></div><div><div>KHA Arkitek</div><div>P.O Box 272</div><div>MPC,</div><div>Old Airport,</div><div>Seribas</div><div>BB3122</div></div></div> <div><div><div>Jurutera OMC</div><div>Chartered Engineers</div><div>Engineering Consultant, Design, Management & Services</div></div><div>2nd Floor, Unit 17 & 18, Block C, Melabau Complex, Jalan Serusop, BB2313, B. S. B. Brunei Darussalam</div><div>Tel : 673-2342688 Fax : 673-2342483</div><div>Email : juruteraomc@yahoo.com</div></div> <div><div>JURUTERA OMC</div><div>Engineering Consultant, Design, Management & Services</div><div>CHIN LEE TUCK</div><div>REGISTRATION NO. BAPEQSP/PE2022007-E</div></div>	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2	SITE DEVELOPMENT PLAN FIRE HYDRANT LAYOUT PLAN - (FOR 5 PERSONS OPTION 2)						
	GENERAL NOTES	REV	DESCRIPTION	DATE	BY					DRAWN BY:	FS	DESIGN BY:	FS	SCALE:	1:100
										CHECKED BY:	CLT	DATE:	SEPT 2022	JOB NO:	254
									DRAWING NO:	JOMC/254/FH/100					

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






LEGEND	
	WALL TYPE FAN COIL UNIT C/W 1X15A S.S.O. (ENERGY EFFICIENT)
	4-WAY CASSETTE FCU C/W 1X15A S.S.O.
	AIR-COND CONDENSING UNIT

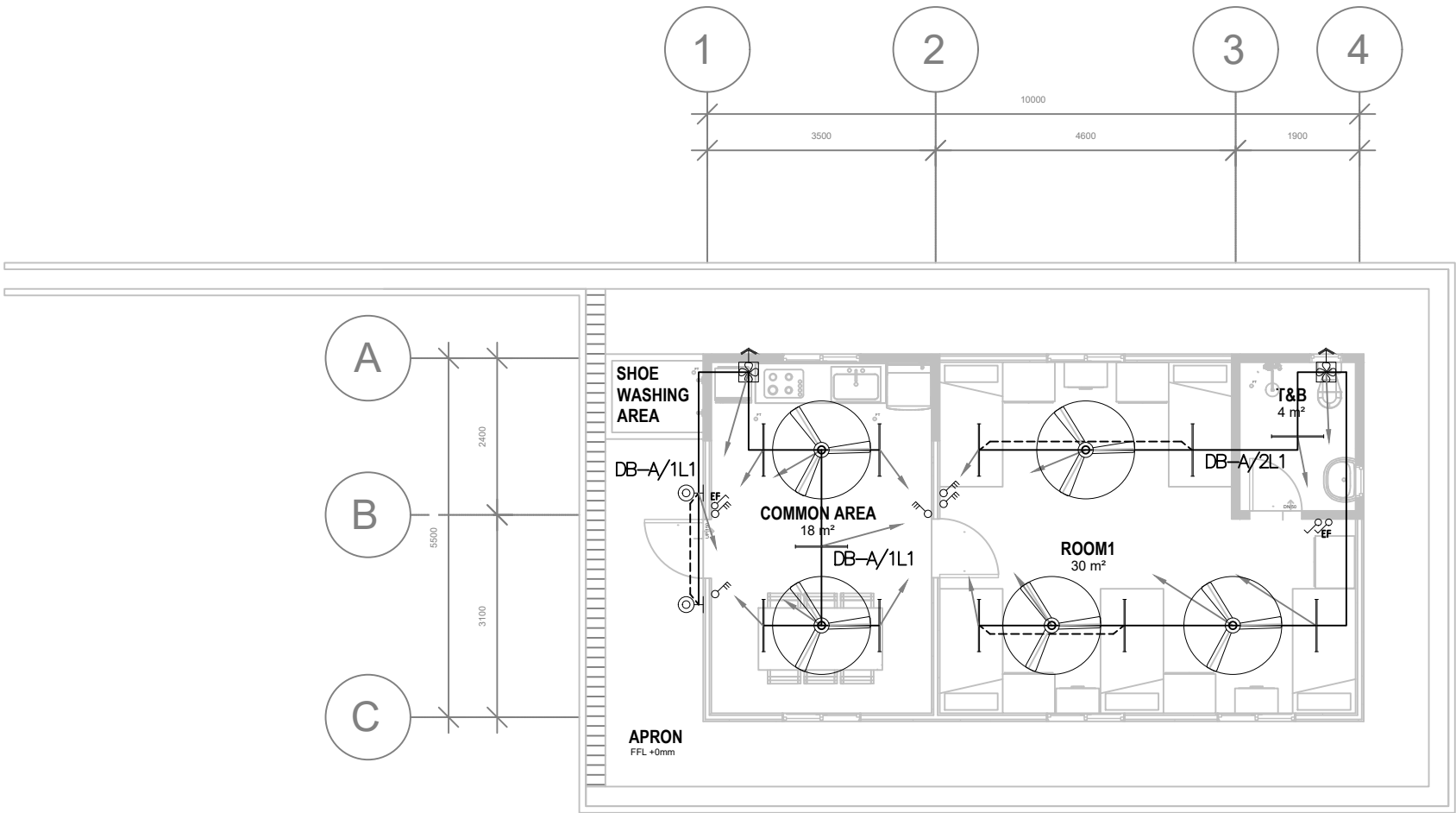


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	REV	DESCRIPTION	DATE	BY						DRAWN BY: FS DESIGN BY: FS SCALE: 1/100		
										CHECKED BY: CLT DATE: SEPT 2022 JOB NO: 254		
										DRAWING NO: JOMC/254/AC/200		

12 September, 2022 - 4:07 PM \\JOMC\DATA\BANK\Share\JOMC\Projects\1254 - Design Services for Agricultural Farm Labour Quarters (M&E)\Drawings\2. Workshop drawings\220906\REV\1\JOMC-254-5 PERSONS OPT2-M&E.dwg

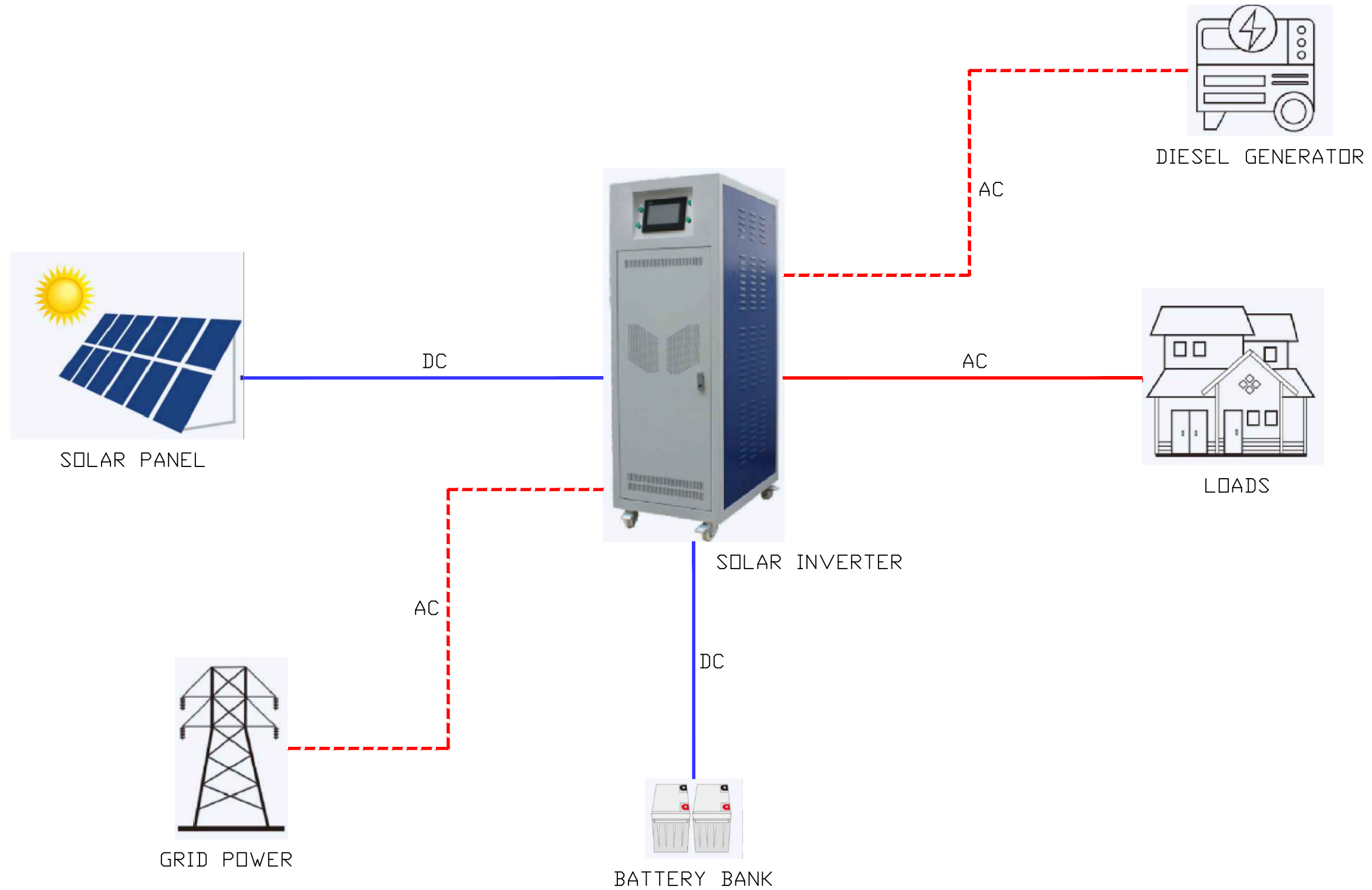
LEGEND			
	1X18W LED Tube Lighting to DES approved type		1 X 10A 1 Gang 1 way lighting switch to DES approved type
	18W LED Wall Light to DES/DME approved type to be installed at 0.30m height from floor		1 X 10A 2 Gang 1 way lighting switch to DES approved type
	Ceiling Fan to DES approved type		1 X 10A 3 Gang 1 way lighting switch to DES approved type
	Exhaust Fan to DES approved type		1 X 10A 1 Gang 1 way exhaust fan switch to DES approved type



GROUND FLOOR PLAN

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						DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM	<div> KHA Arkitek P.O Box 272 MPC, Old Airport, Seremban 703122 Contact No: 2810380</div>	<div> Jurutera OMC Chartered Engineers Engineering Consultant, Design, Management & Services 2nd Floor, Unit 17 & 18, Block C, Melabau Complex, Jalan Serusop, BB2313, B. S. B. Brunei Darussalam Tel : 673-2342688 Fax : 673-2342483 Email : juruteraomc@yahoo.com</div>	<div> CHIN LEE TUCK REGISTRATION NO. BAPEQSP/PE2022007-E</div>	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2	GROUND FLOOR PLAN LIGHTING LAYOUT - (FOR 5 PERSONS OPTION 2)
GENERAL NOTES	REV	DESCRIPTION	DATE	BY							
							</				

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SOLAR SYSTEM LAYOUT DIAGRAM

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Email : juruteraomc@yahoo.com

CHIN LEE TUCK
REGISTRATION NO. BAPEQSP/20220007-E

PROJECT TITLE






PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2

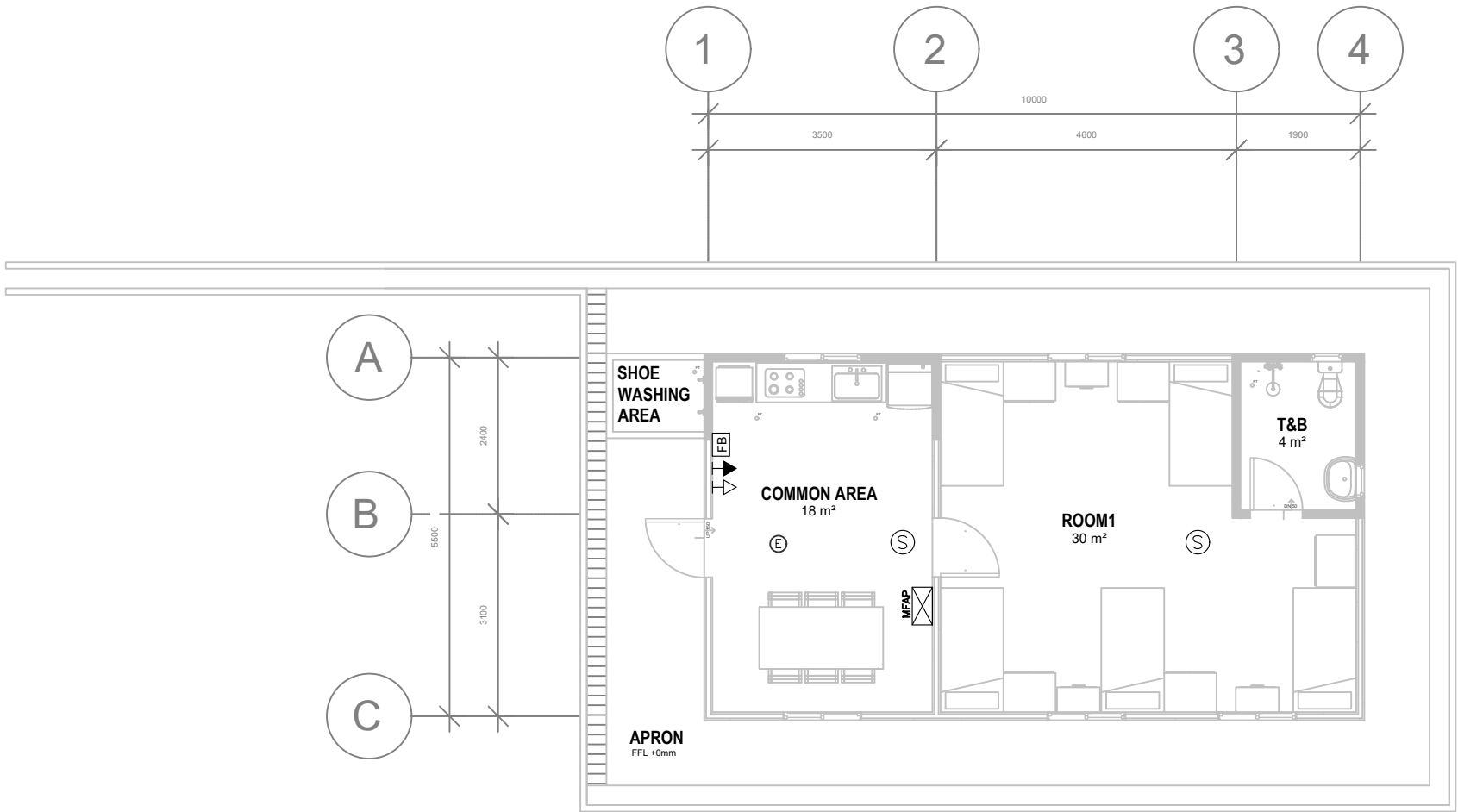
DRAWING TITLE

SOLAR SYSTEM LAYOUT DIAGRAM
- (FOR 5 PERSONS OPTION 2)



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CHECKED BY:	CLT	DATE:	SEPT 2022	JOB NO:	254
DRAWING NO:	JOMC/254/P/300				






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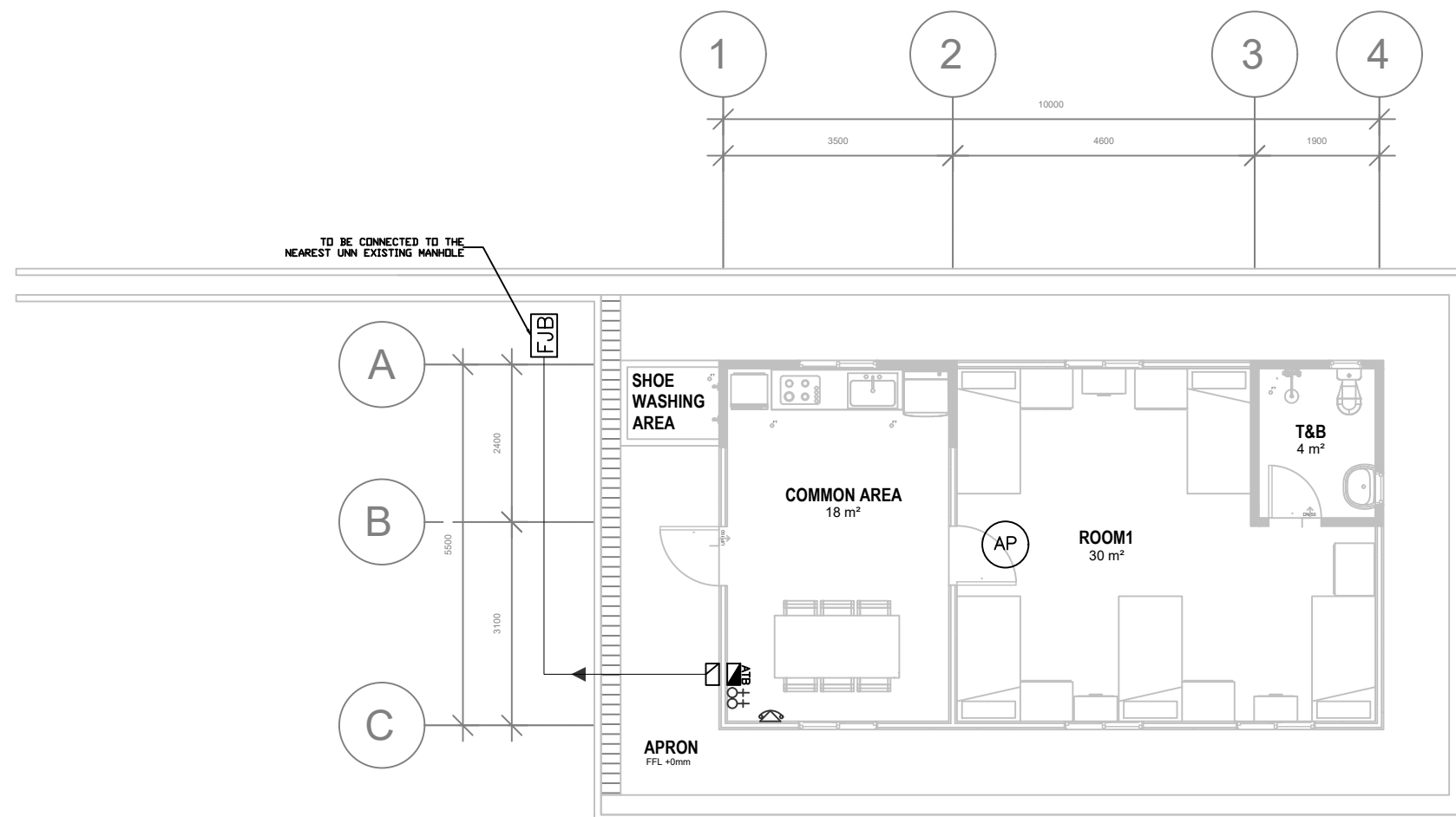
SYMBOL	DESCRIPTION
FB	FIRE BLANKET TO BOMBA APPROVED TYPE
	10W EMERGENCY LIGHTING TO BOMBA APPROVED TYPE
	SMOKE DETECTOR TO BOMBA APPROVED TYPE
	4.5kg ABC DRY POWDER FIRE EXTINGUISHER TO BOMBA APPROVED TYPE
	2.3kg CO2 FIRE EXTINGUISHER TO BOMBA APPROVED TYPE
	FIRE ALARM PANEL TO BOMBA APPROVED TYPE





GROUND FLOOR PLAN

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					DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM	 <div>KHA Arkitek P.O Box 272 MPC, Old Airport, Seremban 703122</div> <div>Contract No: 2810380</div>	 <div>Jurutera OMC Chartered Engineers Engineering Consultant, Design, Management & Services</div> <div>2nd Floor, Unit 17 & 18, Block C, Melabau Complex, Jalan Serusop, BB2313, B. S. B. Brunei Darussalam Tel : 673-2342688 Fax : 673-2342483 Email : juruteraomc@yahoo.com</div> <div>CHIN LEE TUCK REGISTRATION NO. BAPEQSP/PE2022007-E</div>	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2	GROUND FLOOR PLAN FIRE PROTECTION LAYOUT - (FOR 5 PERSONS OPTION 2)			
					DRAWN BY:	FS	DESIGN BY:		FS	SCALE:	1:100	
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GENERAL NOTES	REV	DESCRIPTION	DATE	BY	DRAWING NO: JOMC/254/F/200							

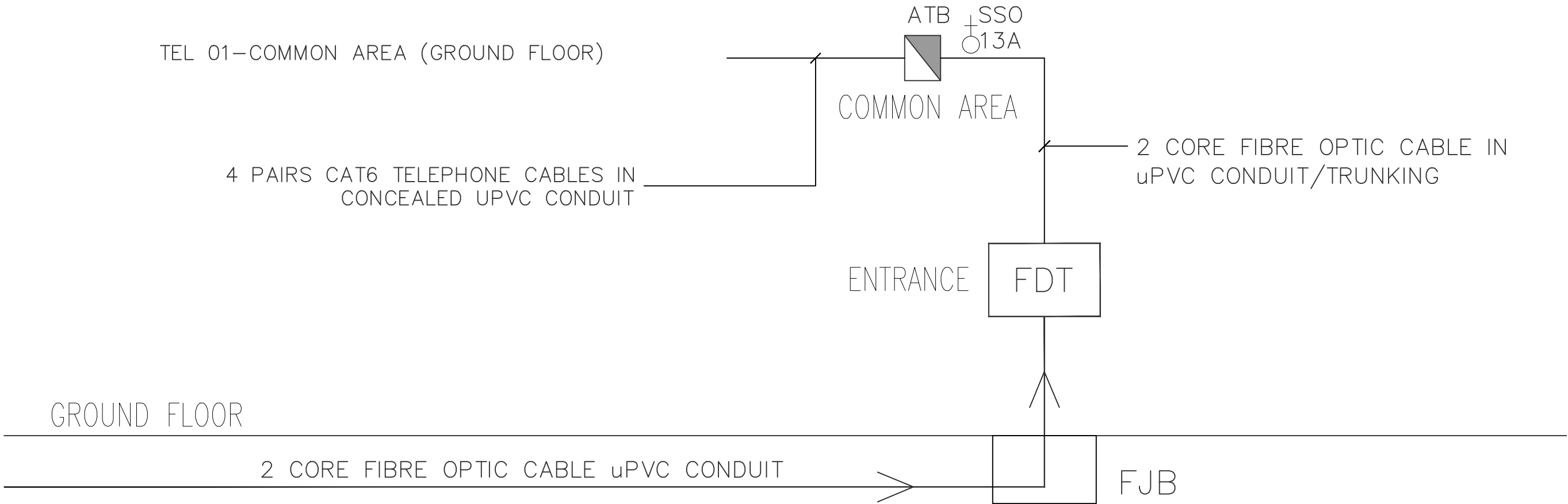
SYMBOL	DESCRIPTION
	TELEPHONE OUTLET POINT (WITH INTERCOM) TO BE INSTALLED AT 350mm HEIGHT TO UNN APPROVED TYPE
	FOOT JUNCTION BOX (FJB) TO UNN APPROVED TYPE
	FIBER DISTRIBUTION TERMINAL (FDT) TO UNN APPROVED TYPE
	ACCESS TERMINATION BOX TO UNN APPROVED TYPE
	ACCESS POINT TO UNN APPROVED TYPE



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					DEPARTMENT OF AGRICULTURE AND AGRIFOOD, BRUNEI DARUSSALAM	<div><div></div><div>KHA Arkitek P.O. Box 272 MPK, Old Airport, Seremban 703122 Contact No: 2610380</div></div>	<div><div></div><div>Jurutera OMC Chartered Engineers Engineering Consultant, Design, Management & Services 2nd Floor, Unit 17 & 18, Block C, Melabau Complex, Jalan Serusop, BB2313, B. S. B. Brunei Darussalam Tel : 673-2342688 Fax : 673-2342483 Email : juruteraomc@yahoo.com CHW LEE TUCK REGISTRATION NO: BAPEQS/PE2020007-E</div></div>	PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2	GROUND FLOOR PLAN TELEPHONE LAYOUT - (FOR 5 PERSONS OPTION 2)	
	GENERAL NOTES	REV	DESCRIPTION	DATE	BY					
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TELEPHONE SYSTEM SCHEMATIC DIAGRAM

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	REV	DESCRIPTION	DATE	BY									DRAWN BY:	FS	DESIGN BY:	FS	SCALE:	NTS
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
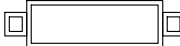




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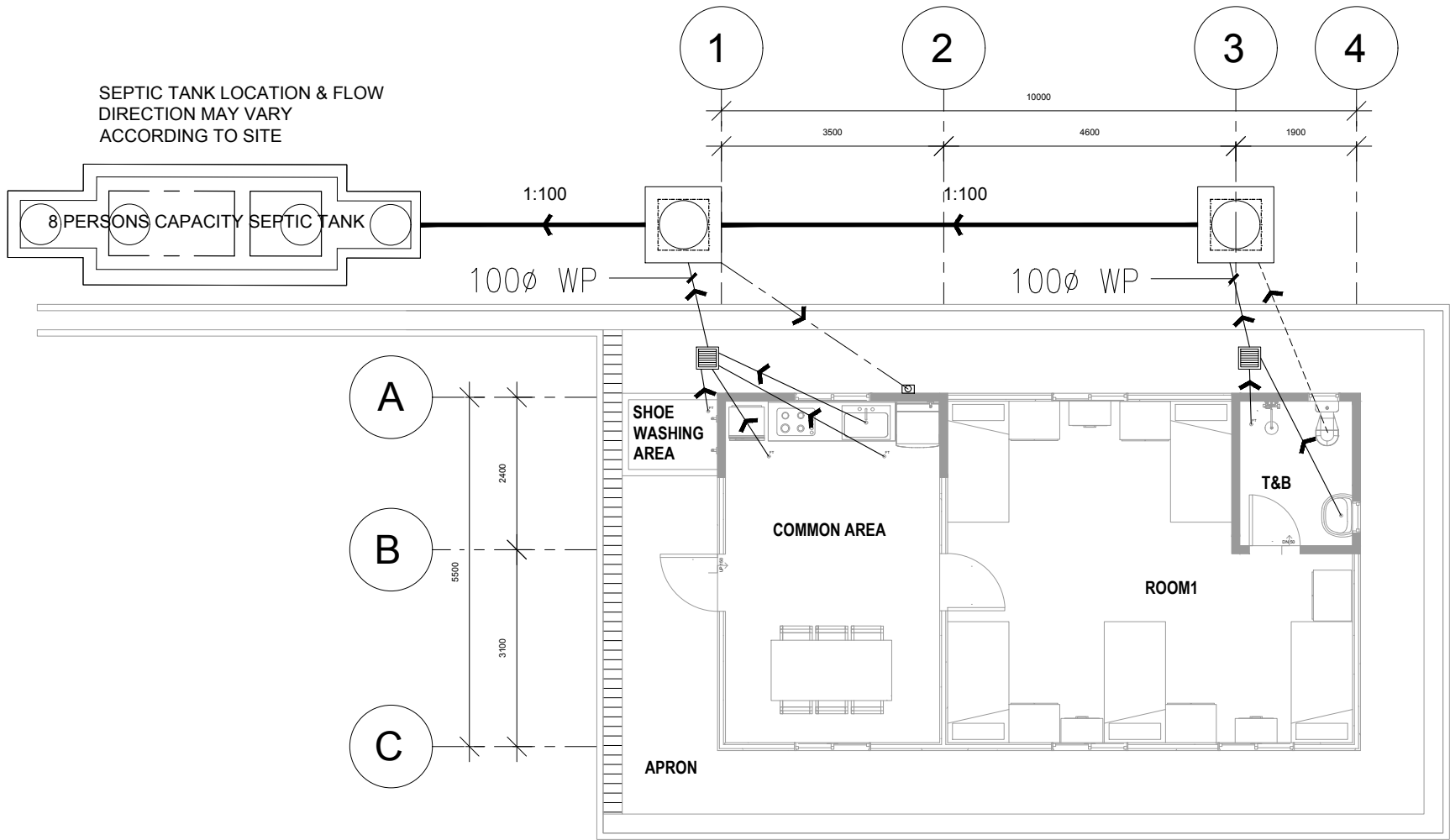


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	GENERAL NOTES	REV	DESCRIPTION	DATE	BY								DRAWN BY: AIM CHECKED BY: CLT DRAWING NO: JOMC/254/N/200	

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LEGEND	DESCRIPTION
	150MMØ VC PIPE
	MANHOLE TYPE A
	SEPTIC TANK (CAPACITY 8 PERSONS)
	80MMØ WASTE PIPE
	100MMØ SOIL PIPE
	100MMØ VENT PIPE
	GULLY TRAP



GROUND FLOOR PLAN

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Engineering Consultant, Design, Management & Services



CHIN LEE TUCK
REGISTRATION NO. BAPEQS/PE2022007-E

PROJECT TITLE

**PROPOSED NEW 1 UNIT STANDARD DESIGN
OF FARM LABOUR QUARTERS, BRUNEI
DARUSSALAM (FOR 5 PERSONS) - OPTION 2**

DRAWING TITLE

GROUND FLOOR PLAN SANITARY LAYOUT
(FOR 5 PERSONS OPTION 2)

DRAWN BY:

AIM

DESIGN BY:

AIM

SCALE:

1:100

CHECKED BY:

CLT

DATE:

SEPT 2022

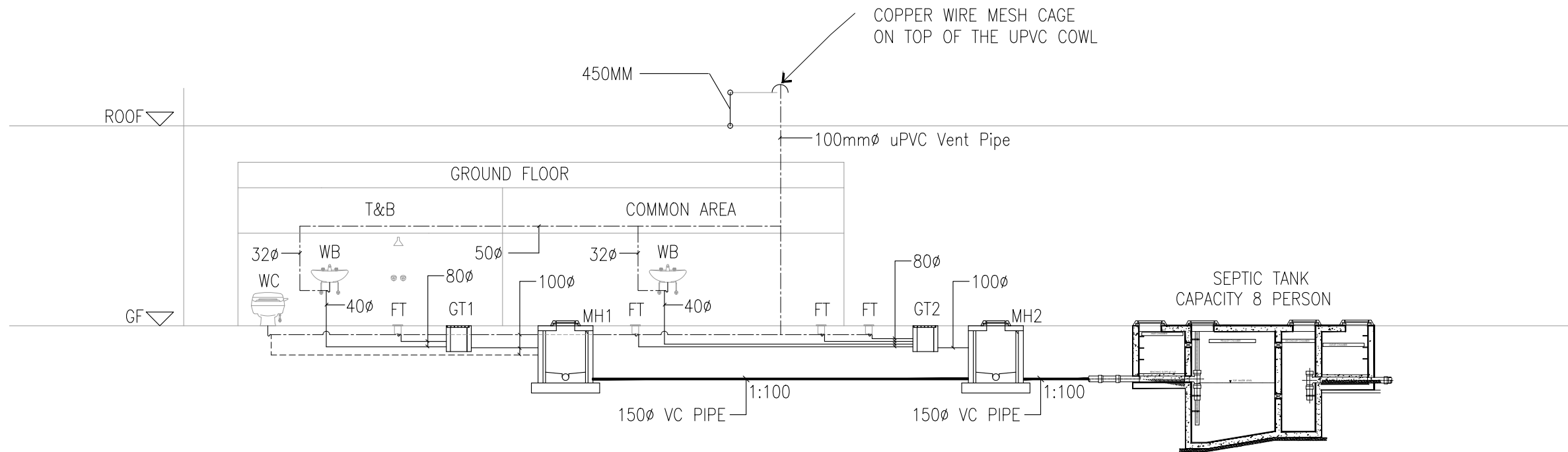
JOB NO:

254

DRAWING NO:

JOMC/254/SEW/200

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Email : juruteraomc@yahoo.com

Jurutera OMC
Chartered Engineer
Engineering Consultant, Design, Management & Services



CHIN LEE TUCK
REGISTRATION NO. BAPEQSP/PE2022007-E

PROJECT TITLE

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2

DRAWING TITLE

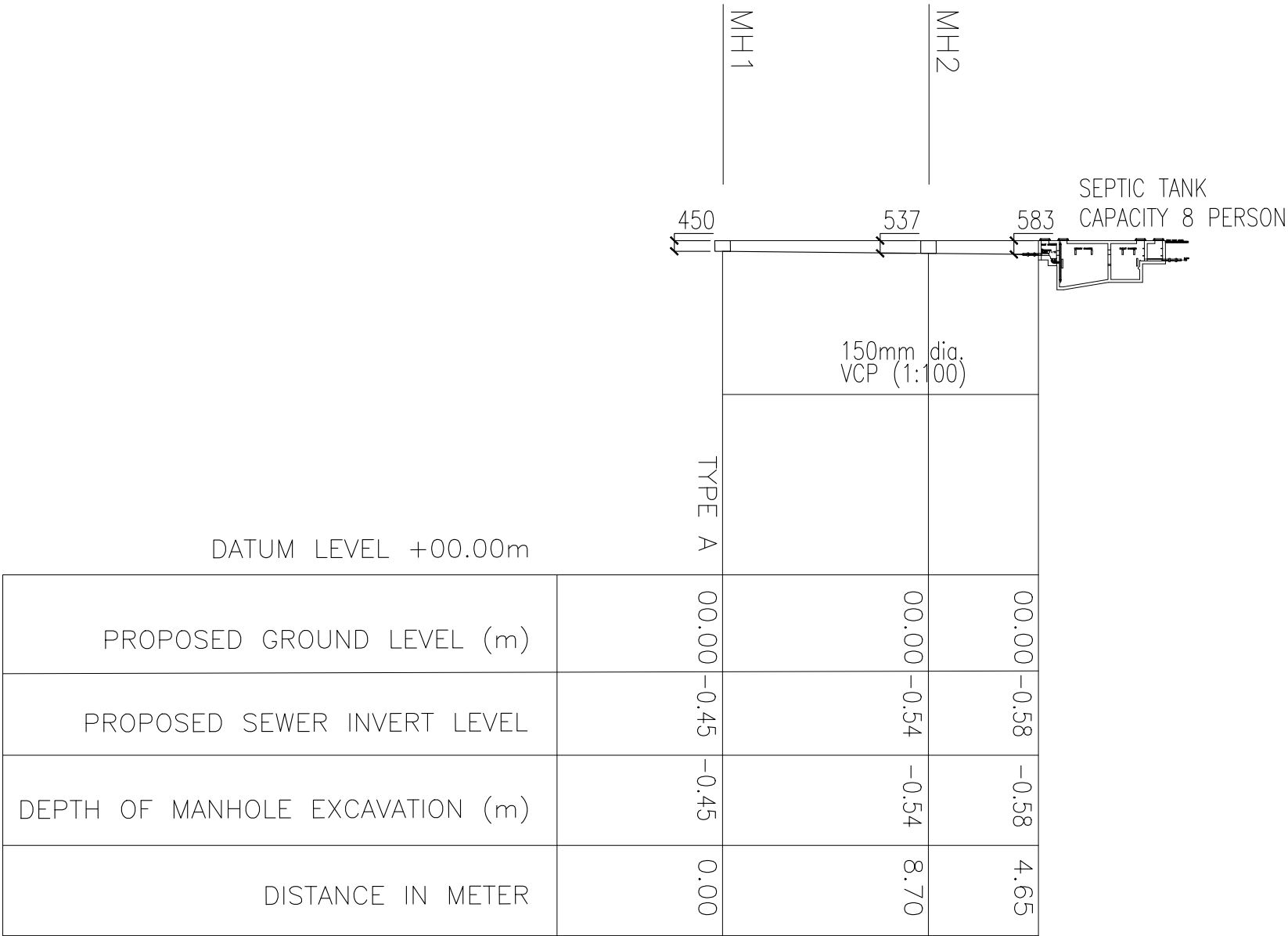
SANITARY SCHEMATIC DIAGRAM (FOR 5 PERSONS OPTION 2)

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CHECKED BY:	CLT	DATE:	SEPT 2022	JOB NO:	254

DRAWING NO: JOMC/254/SEW/300

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NOTE:
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CHIN LEE TUCK
REGISTRATION NO. BAPEQS/PE2022007-E

PROJECT TITLE

PROPOSED NEW 1 UNIT STANDARD DESIGN OF FARM LABOUR QUARTERS, BRUNEI DARUSSALAM (FOR 5 PERSONS) - OPTION 2

DRAWING TITLE

SANITARY SEWER LINE INVERT LEVEL (FOR 5 PERSONS OPTION 2)

DRAWN BY:

AIM

DESIGN BY:

AIM

SCALE:

NTS

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SEPT 2022

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