

**PROPOSED 3 STOREY HOSPITAL EXTENSION AT
GN ATOLL HOSPITAL
REPUBLIC OF MALDIVES**

STRUCTURAL DRAWINGS

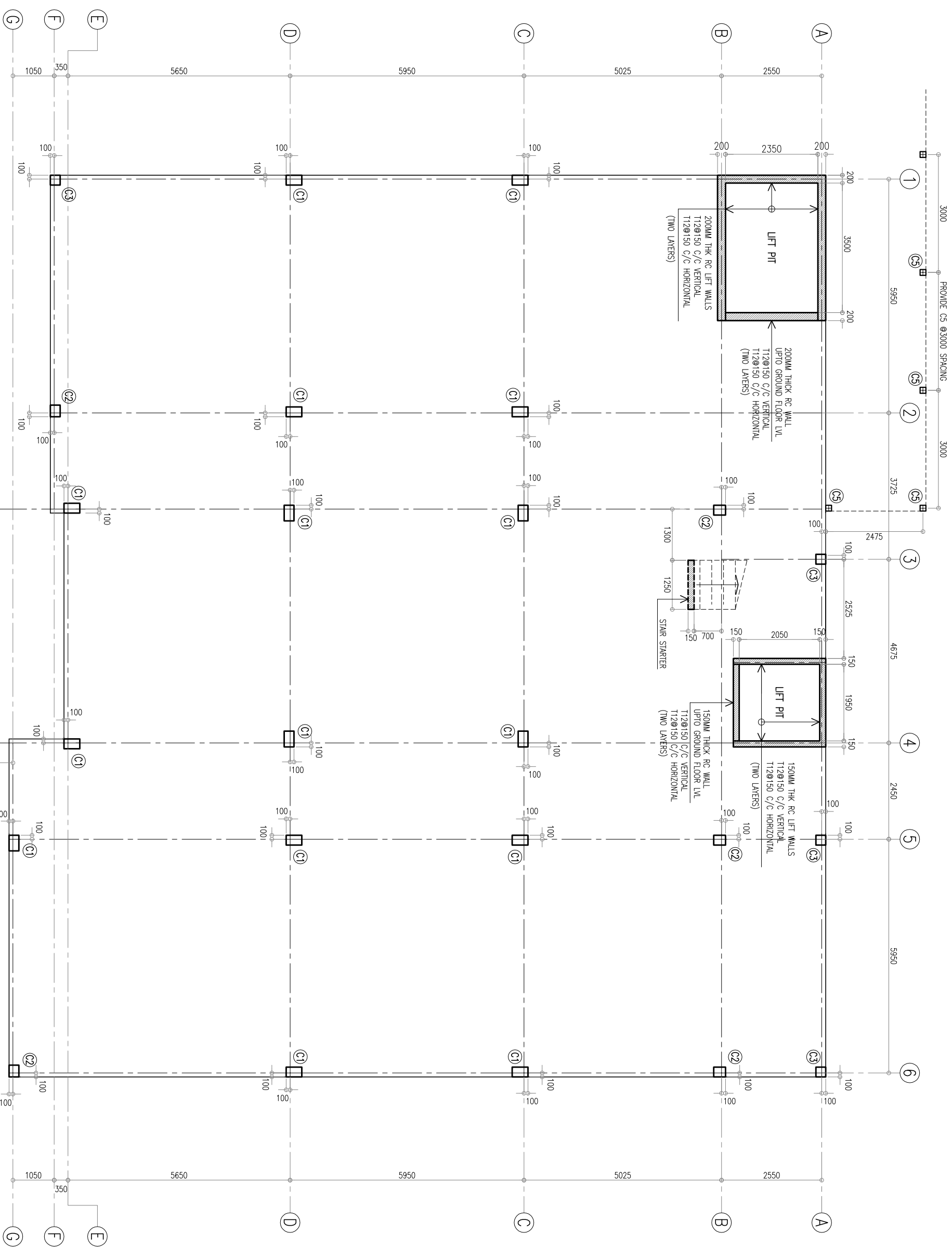
CLIENT
MINISTRY OF HEALTH
MALE' REPUBLIC OF MALDIVES

APRIL 2016

ARCHITECT

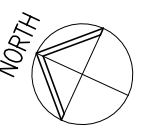


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COLUMN LAYOUT PLAN 1:100

ST-01/17



NOTES

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PROJECT
PROPOSED 3 STOREY EXTENSION OF GN ATOLL HOSPITAL

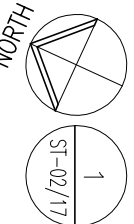
G.N. EYVAHNUULAH
 REPUBLIC OF MALDIVES

STAGE
 DETAIL DESIGN

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 COLUMN LAYOUT PLAN

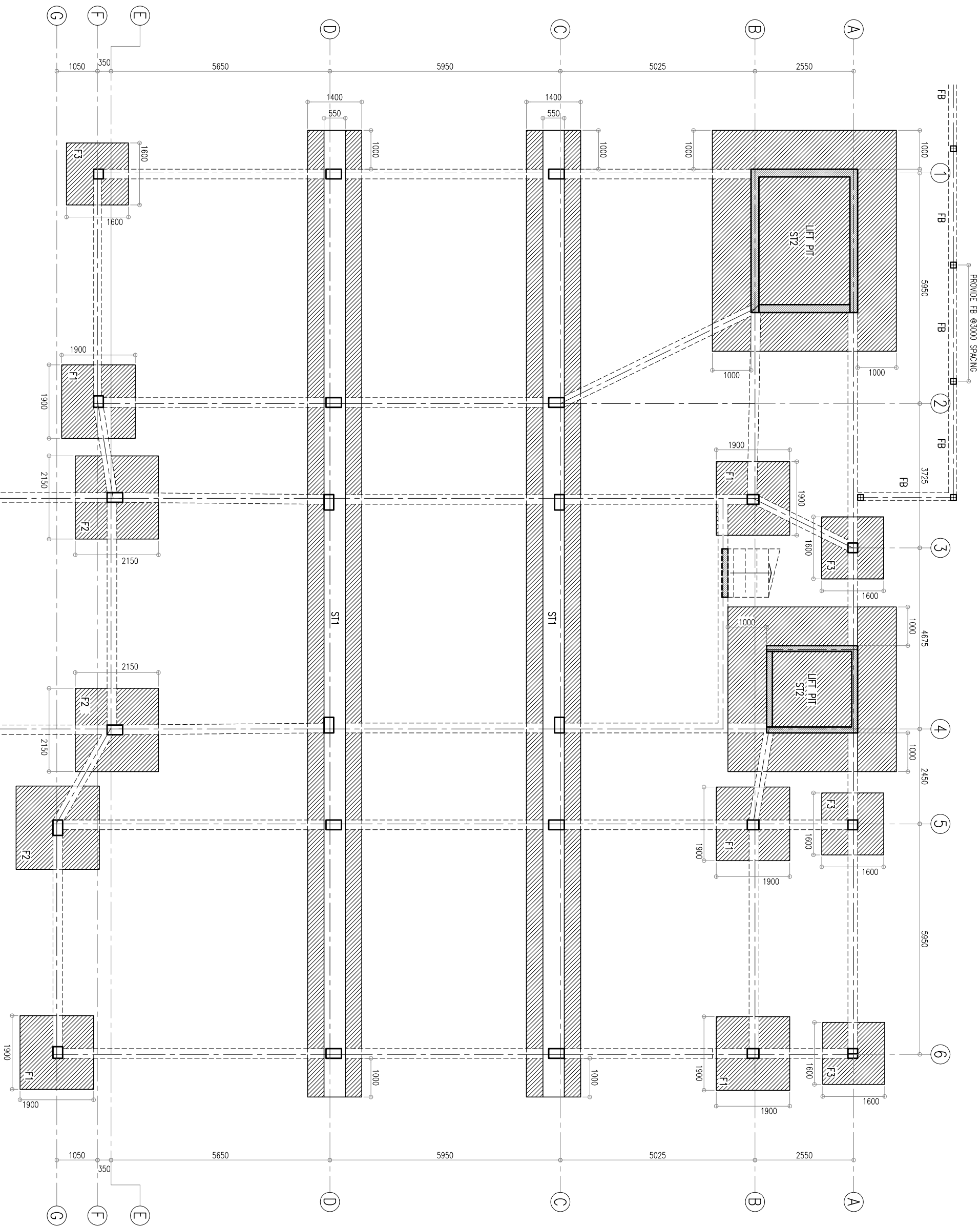
DESIGN SHIHAN	DRAWN IVA	CHECKED SHIHAN	DRAWING NO. S-01
PROJECT NO. 2016/L-16/22	PROJECT DATE APRIL 2016		
			OF 17

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1
ST-02/17

FOUNDATION PLAN 1:100



NOTE:

- FOUNDATION DEPTH = 1200MM FROM GROUND LVL
- RAFT SLAB THICKNESS (ST2) = 400MM-T17@125 C/C BW (T&B)
- FOUNDATION BEAM (FB)
- PROVIDE GROUND SLAB OF 200MM
- RFMNT-R6@200 C/C BW SINGLE LAYER

NOTES

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PROPOSED 3 STOREY EXTENSION OF GN ATOLL HOSPITAL
 GN. FUVAHILULAH
 REPUBLIC OF MALDIVES

STAGE

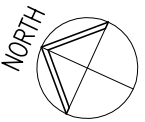
DETAIL DESIGN

CONTENTS

FOUNDATION PLAN

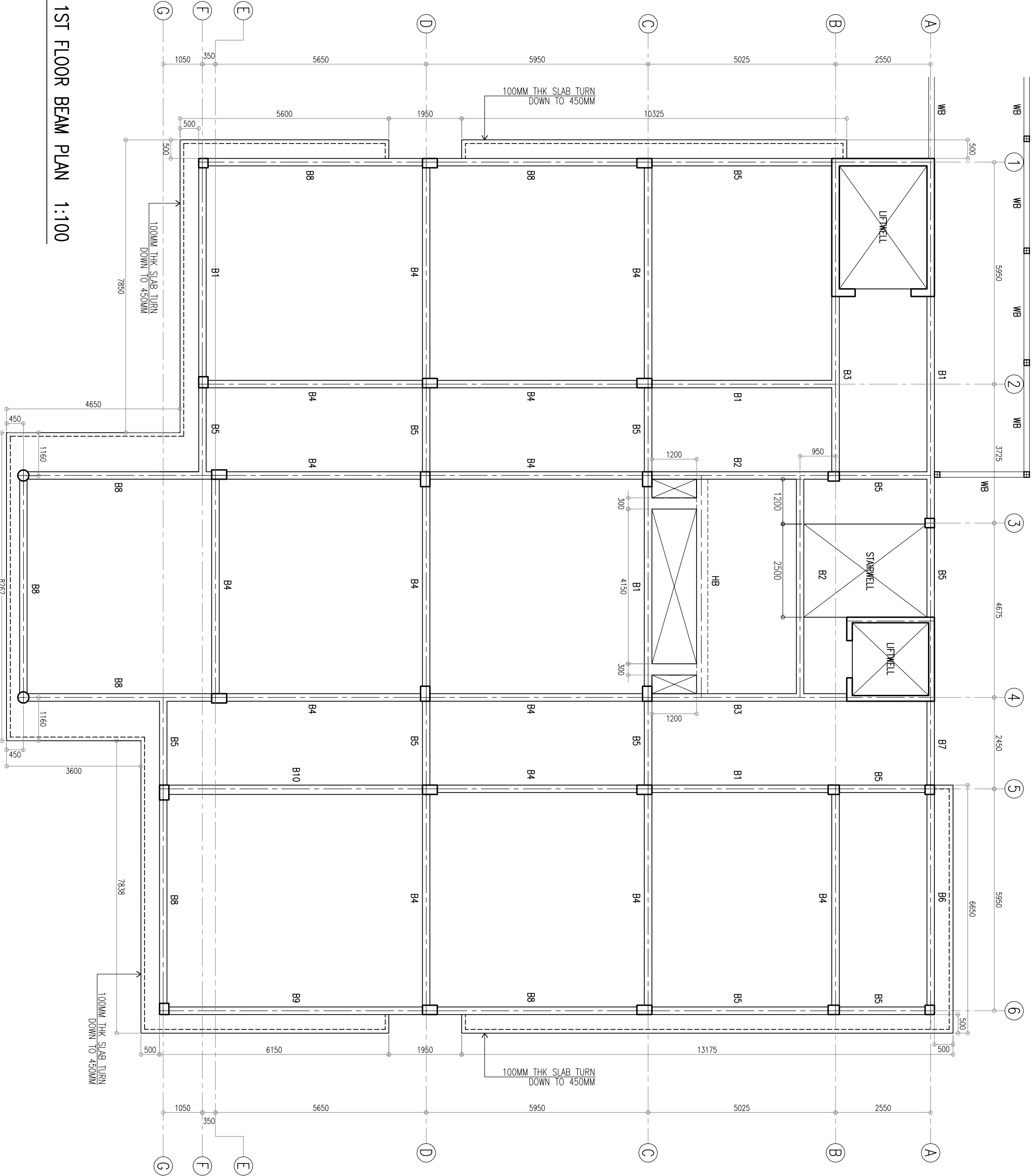
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DESIGN SHIHAN	CHECKED SHIHAN
DRAWN IVA	OF 17
PROJECT DATE APRIL 2016	

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1
ST-03/17

1ST FLOOR BEAM PLAN 1:100



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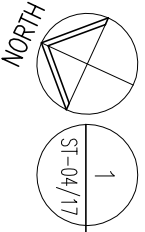
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**PROPOSED 3 STOREY EXTENSION OF
 GN ATOLL HOSPITAL**

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STAGE
 DETAIL DESIGN

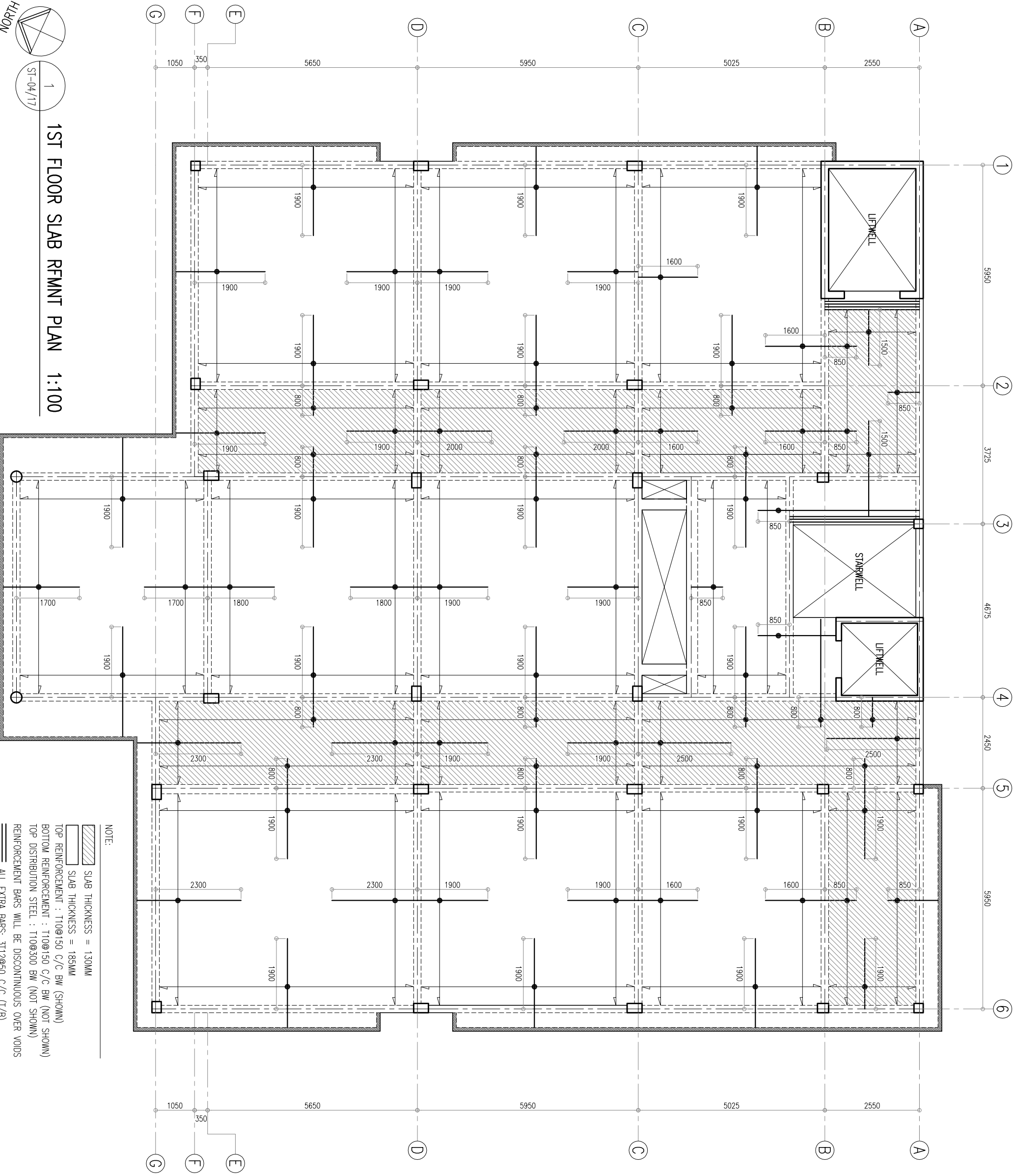
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 1ST FLOOR BEAM PLAN

DESIGN SHIHAN	DRAWN IVA	CHECKED SHIHAN
PROJECT NO. 2016/L-16/22	DRAWING NO. S-03	OF 17
PROJECT DATE APRIL 2016		



ST-04/17

1ST FLOOR SLAB RFMNT PLAN 1:100

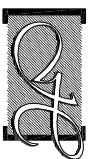


NOTE:

- SLAB THICKNESS = 130MM
- SLAB THICKNESS = 185MM
- TOP REINFORCEMENT : T10@150 C/C BW (SHOWN)
- BOTTOM REINFORCEMENT : T10@150 C/C BW (NOT SHOWN)
- TOP DISTRIBUTION STEEL : T10@300 BW (NOT SHOWN)
- REINFORCEMENT BARS WILL BE DISCONTINUOUS OVER VOIDS
- ALL EXTRA BARS: 3T12@50 C/C (T/B)

NOTES

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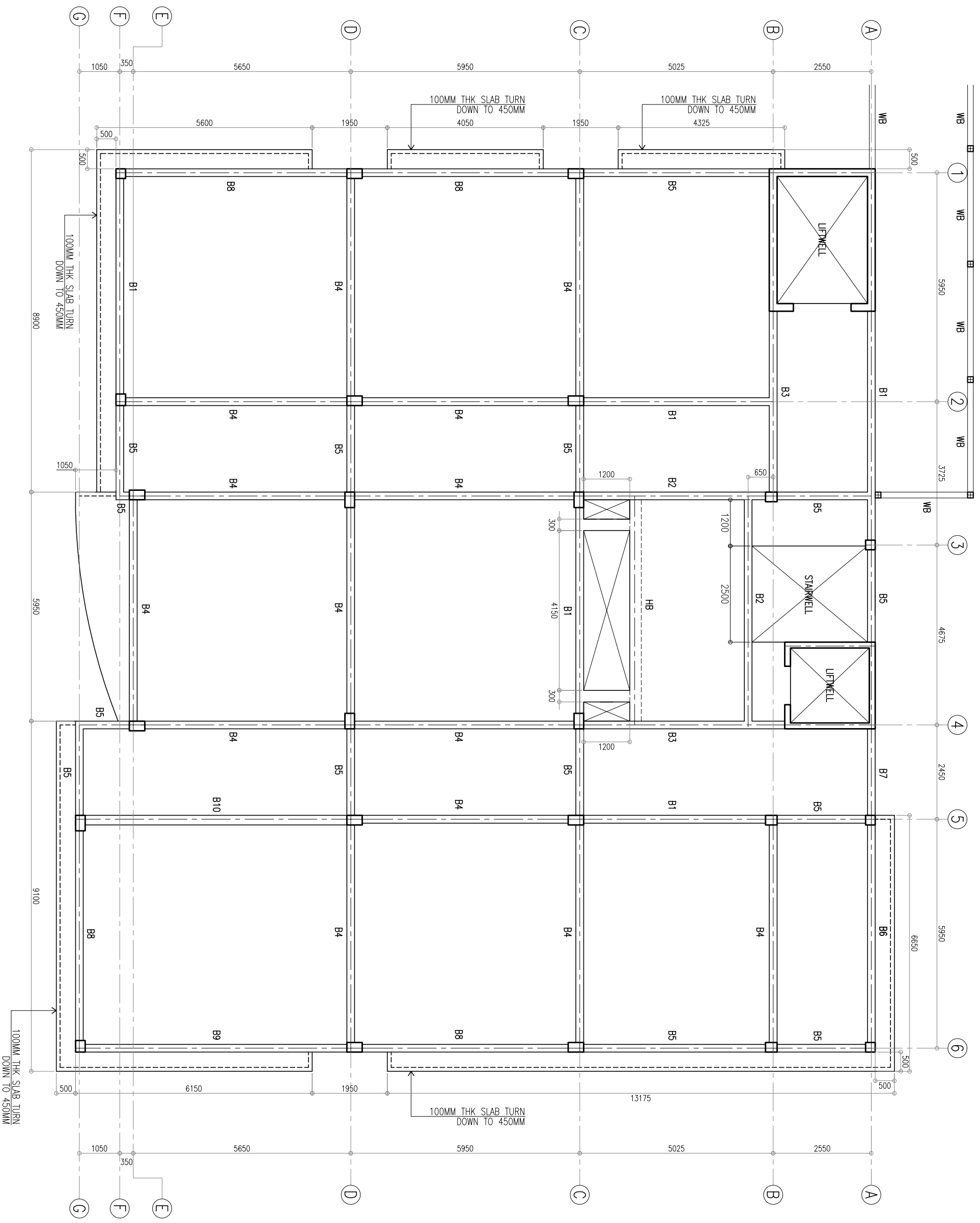
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STAGE
 DETAIL DESIGN

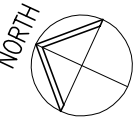
CONTENTS
 1ST FLOOR SLAB RFMNT PLAN

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1
ST-05/17
2ND FLOOR BEAM PLAN 1:100



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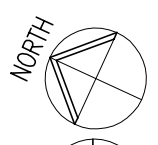
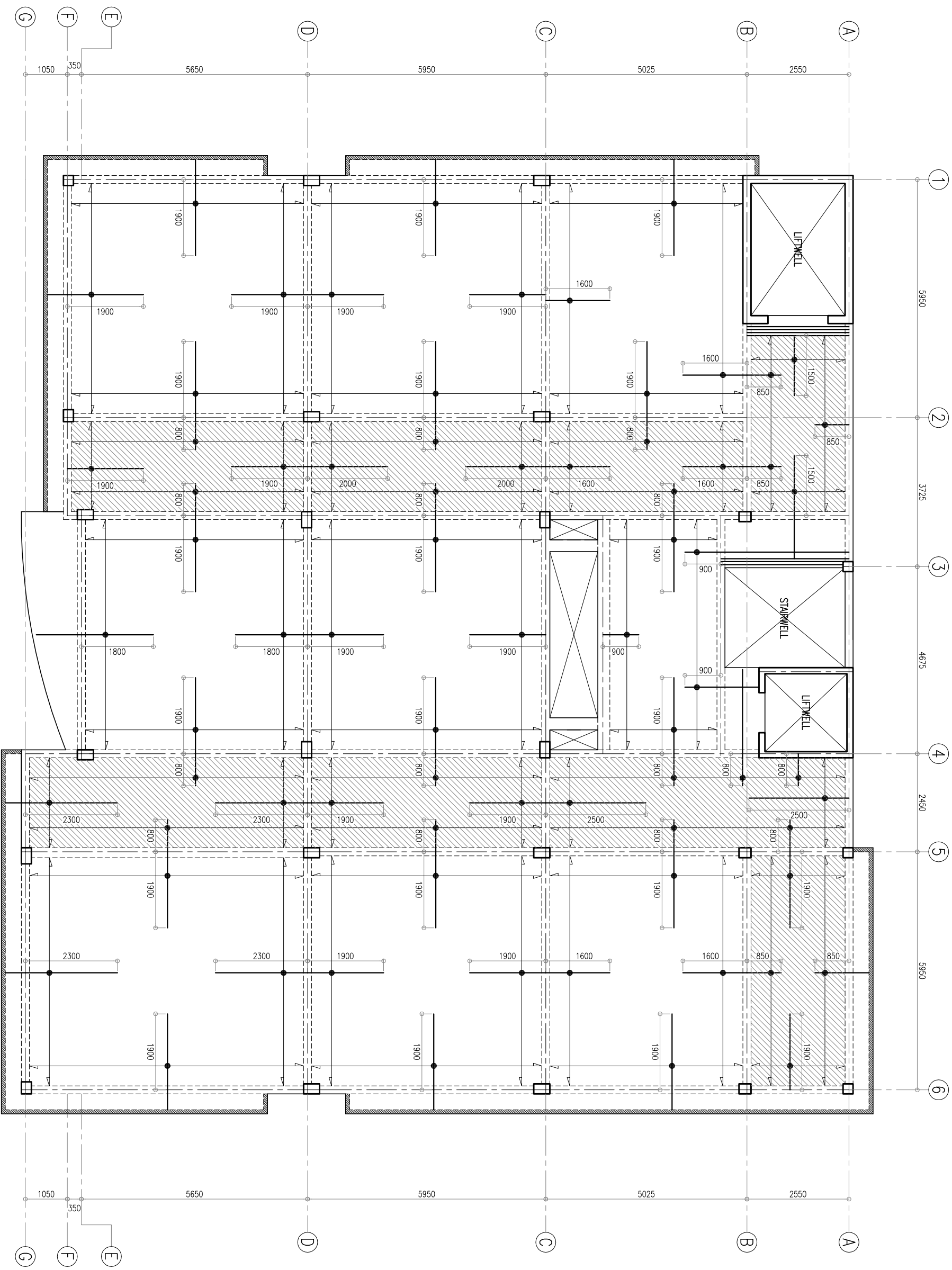
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REPUBLIC OF MALDIVES

STAGE
DETAIL DESIGN

CONTENTS
2ND FLOOR BEAM PLAN

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1
ST-06/17

2ND FLOOR SLAB REINFT PLAN 1:100

NOTE:

- SLAB THICKNESS = 130MM
- SLAB THICKNESS = 185MM
- TOP REINFORCEMENT : T10@150 C/C BW (SHOWN)
- BOTTOM REINFORCEMENT : T10@150 C/C BW (NOT SHOWN)
- TOP DISTRIBUTION STEEL : T10@300 BW (NOT SHOWN)
- REINFORCEMENT BARS WILL BE DISCONTINUOUS OVER VOIDS
- ALL EXTRA BARS: S12@50 C/C (T/B)

<p>NOTES</p>	<p>ARCHITECT</p>
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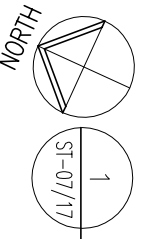
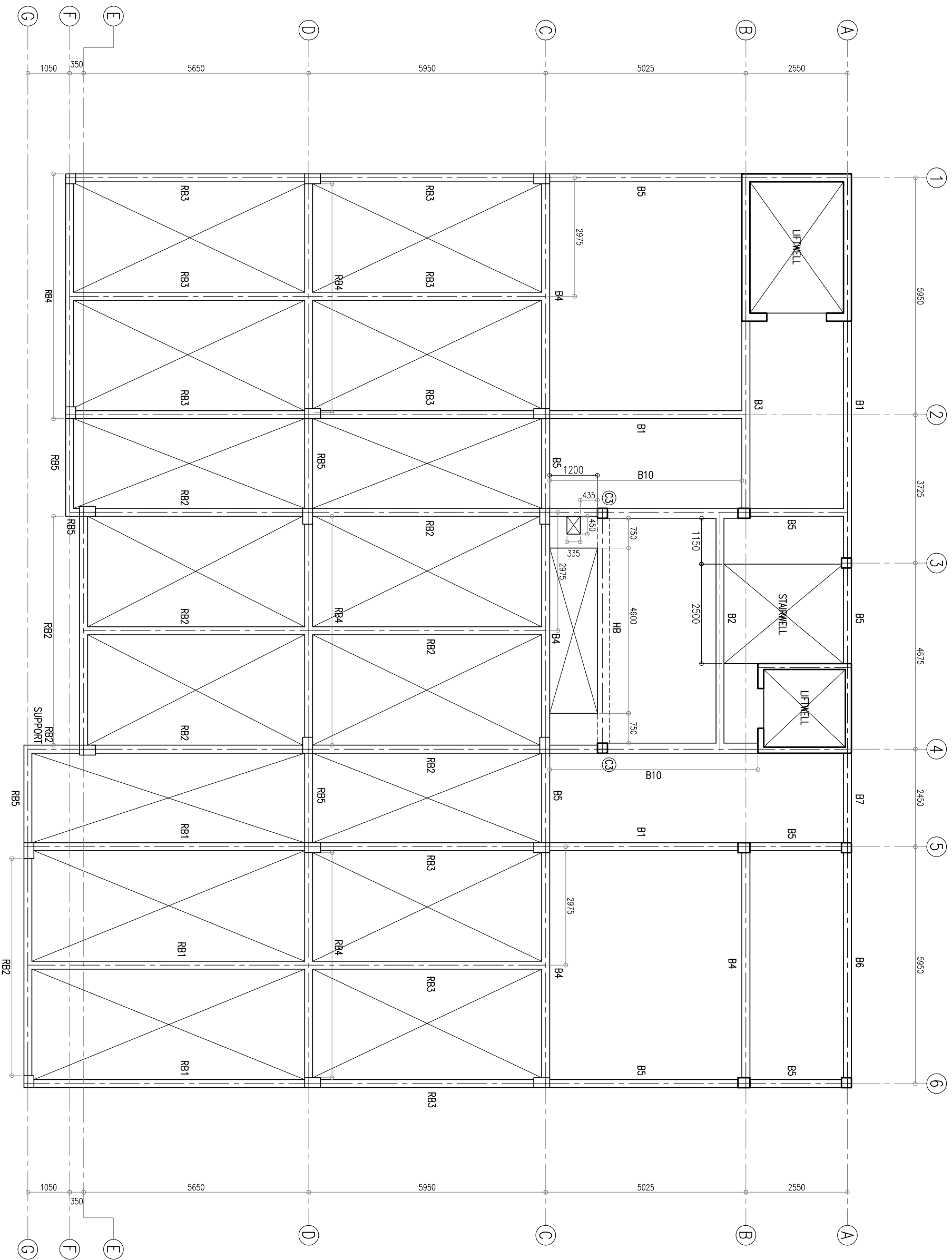
PROJECT
PROPOSED 3 STOREY EXTENSION OF GN ATOLL HOSPITAL

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DETAIL DESIGN

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2ND FLOOR SLAB REINFT PLAN

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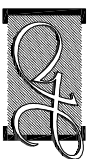


1
ST-07/17

ROOF TERRACE AND ROOF BEAM PLAN 1:100

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**PROPOSED 3 STOREY EXTENSION OF
 GN ATOLL HOSPITAL**

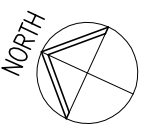
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 ROOF TERRACE AND
 ROOF BEAM PLAN

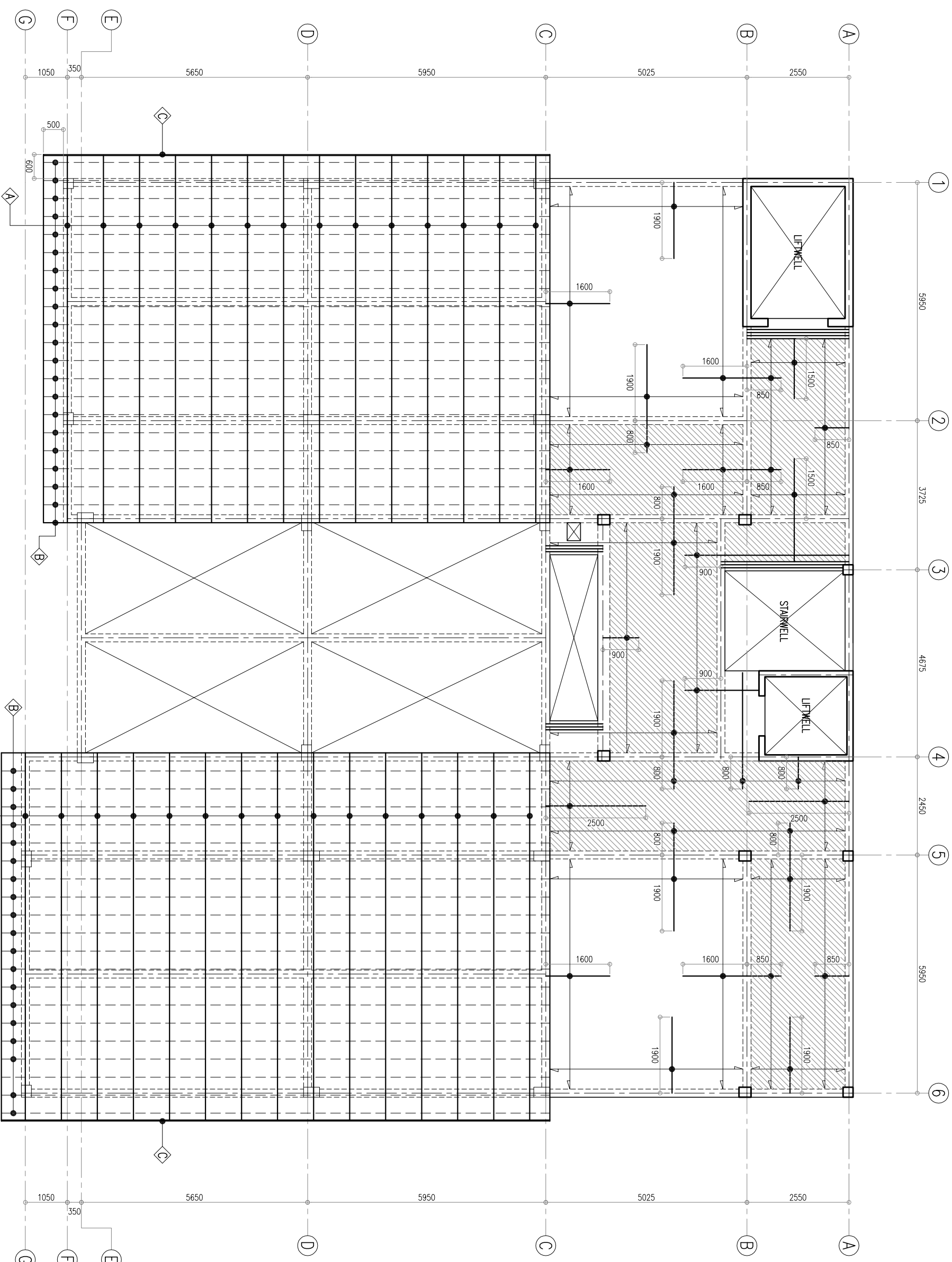
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1
ST-08/17

**ROOF TERRACE LVL SLAB RFMNT &
LOWER ROOF FRAMING PLAN 1:100**




LEGEND :

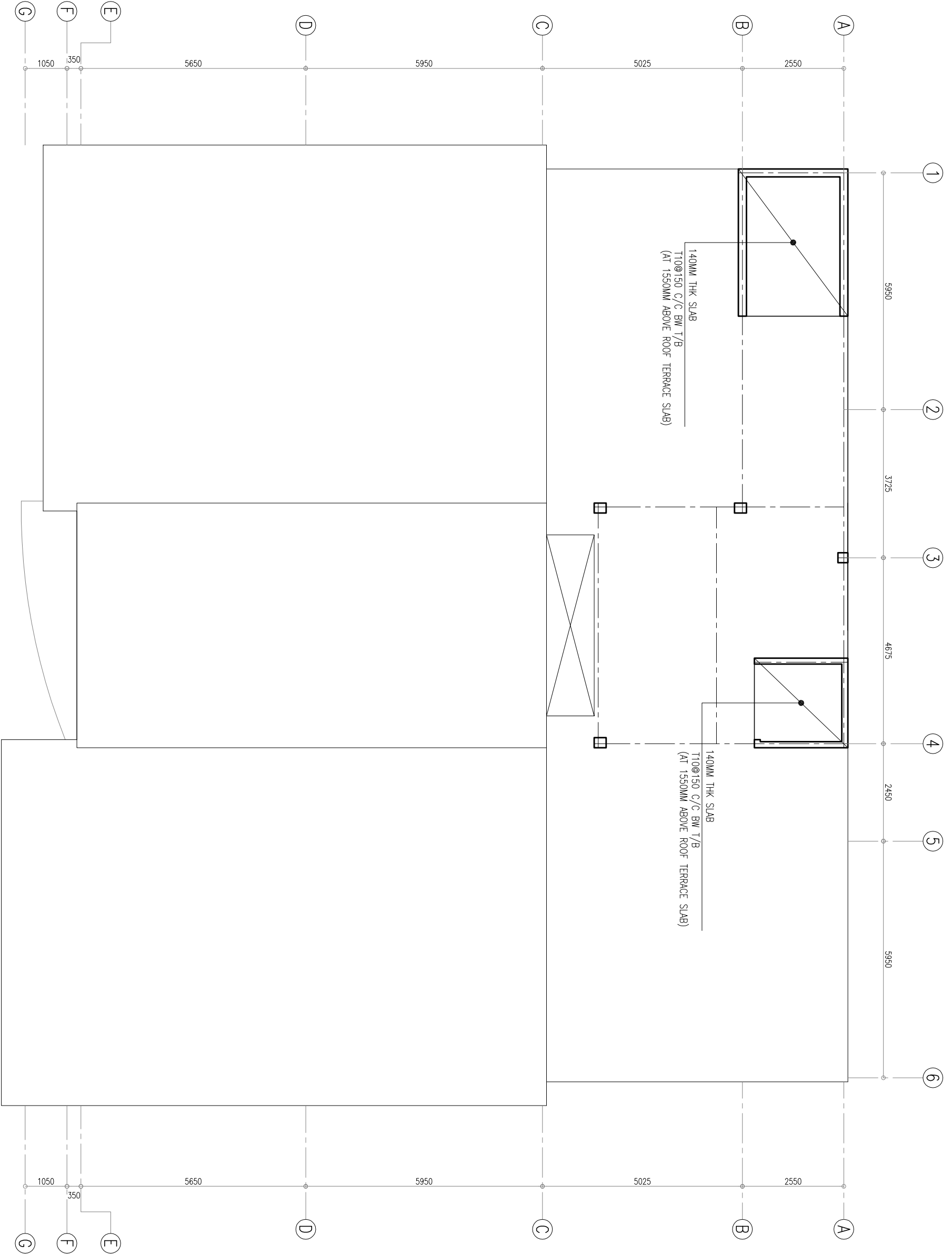
- ◊ = 50X150MM TIMBER RAFTERS @900MM C/C
- ◊ = 38X38MM TIMBER BATTENS @450MM C/C
- ◊ = 25X250MM TIMBER FACIA FIXED ON THE EDGE OF RAFTERS

NOTE:

- ▨ SLAB THICKNESS = 130MM
- ▨ SLAB THICKNESS = 185MM
- TOP REINFORCEMENT : T10@150 C/C BW (SHOWN)
- BOTTOM REINFORCEMENT : T10@150 C/C BW (NOT SHOWN)
- TOP DISTRIBUTION STEEL : T10@300 BW (NOT SHOWN)
- REINFORCEMENT BARS WILL BE DISCONTINUOUS OVER VOIDS
- ALL EXTRA BARS: 3T12@50 C/C (T/B)

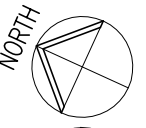
 Hannan Yoosuf Architects MILANO (3 RD FLOOR) RAHDHEBAI MAGU MACHCHANGOLHI MALE 20159 MALDIVES TEL: (960) 331 8765 FAX: (960) 331 8763 EMAIL: info@yoosuf.net WEB: www.yoosuf.net	
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G.N. FUVAHILULAH REPUBLIC OF MALDIVES	
STAGE DETAIL DESIGN	
CONTENTS ROOF TERRACE LVL SLAB RFMNT & LOWER ROOF FRAMING PLAN	
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PROJECT NO. 2016/L-16/22	CHECKED SHIHAN
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MACHINE ROOM LEVEL SLAB RFMNT PLAN 1:100

1
ST-09/17



NOTES

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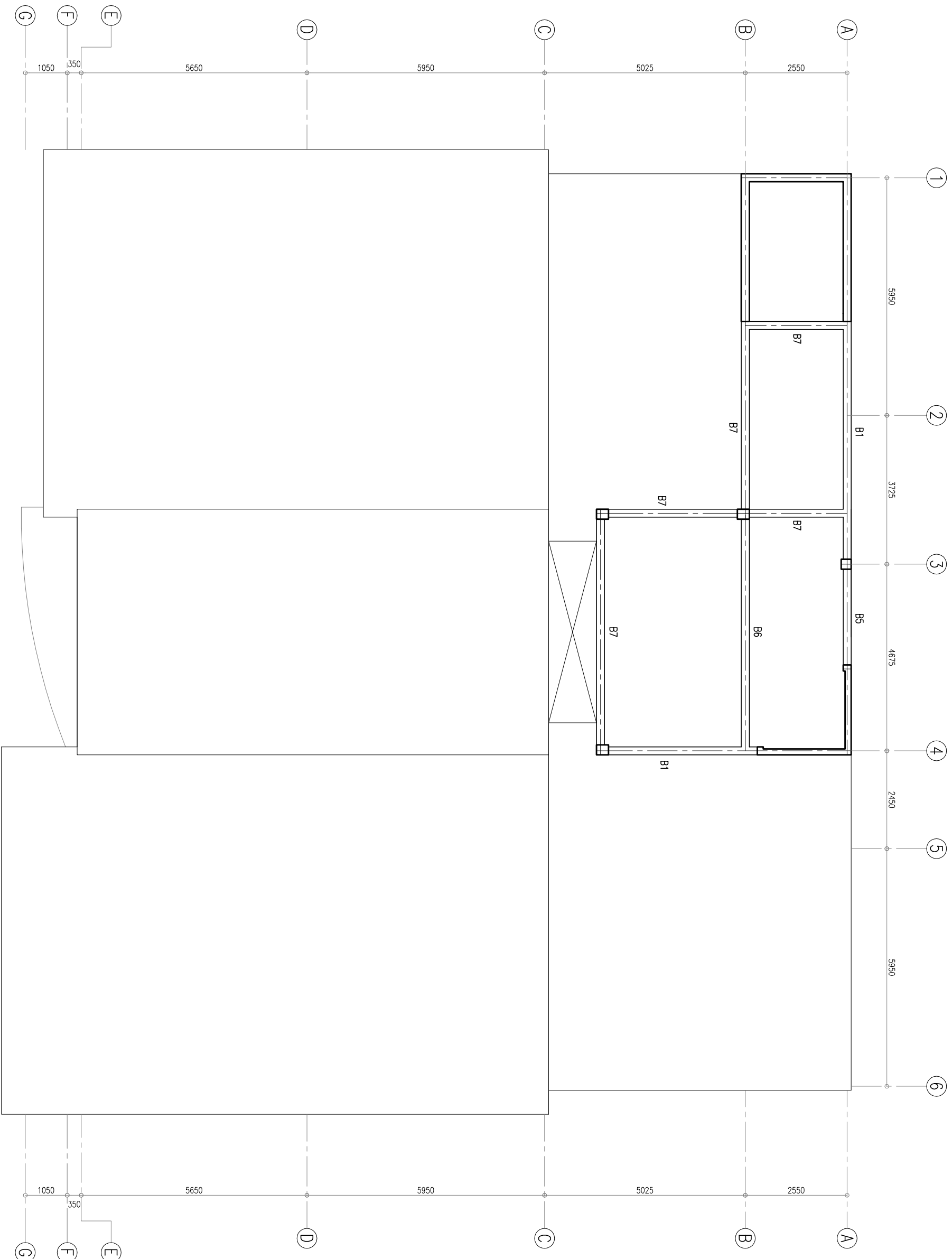


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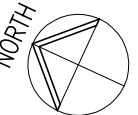
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 GN. EIVAHILULAH
 REPUBLIC OF MALDIVES
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 MACHINE ROOM LEVEL
 SLAB RFMNT PLAN

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ROOF SLAB BEAM PLAN 1:100

1
ST-10/17



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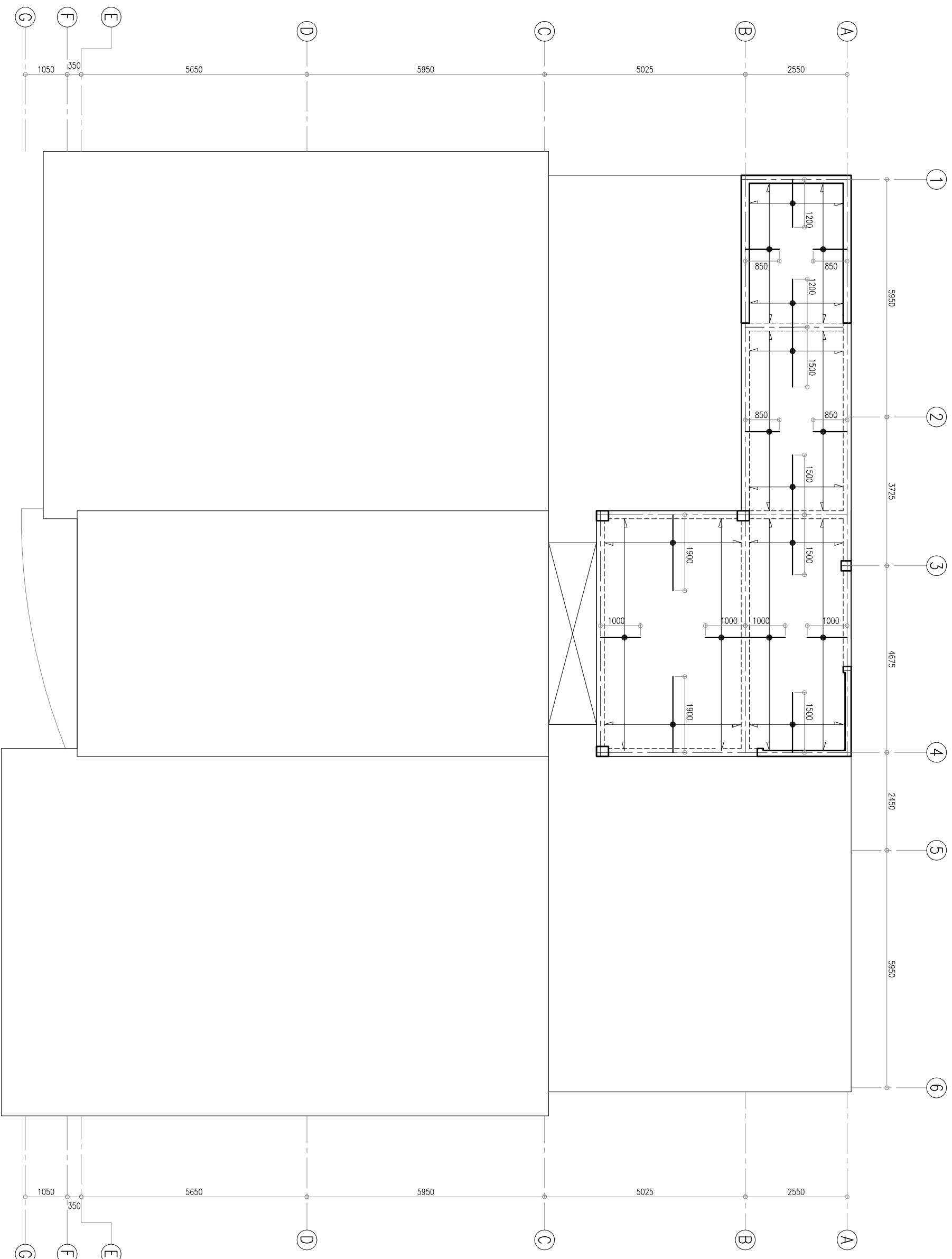
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 GN ATOLL HOSPITAL**

GN. FUVAHULIHA
 REPUBLIC OF MALDIVES

STAGE
 DETAIL DESIGN

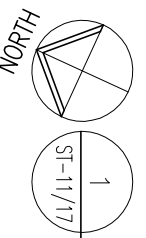
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 SLAB RFMNT PLAN

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NOTE:

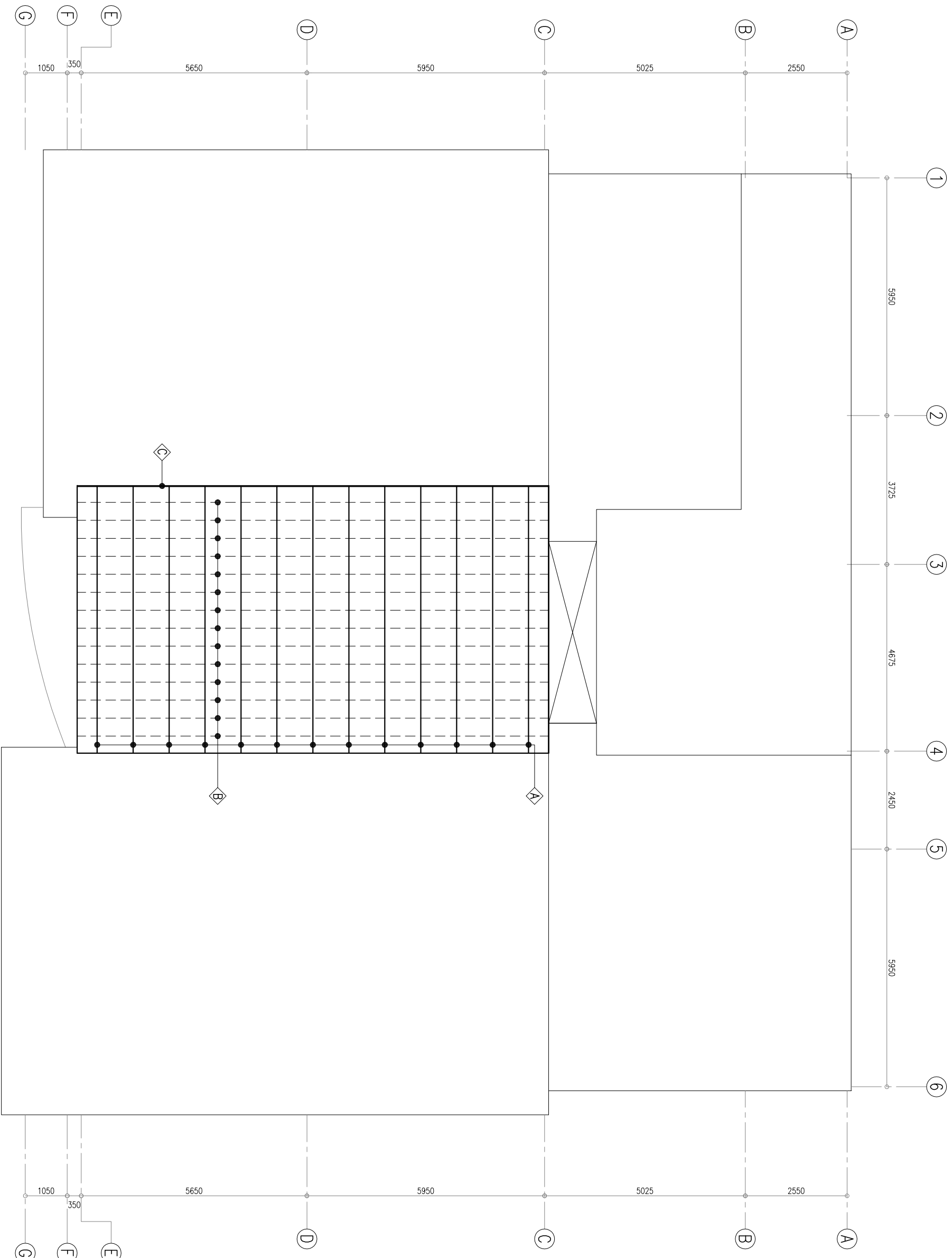
- SLAB THICKNESS = 140MM
- TOP REINFORCEMENT : T10@150 C/C BW (SHOWN)
- BOTTOM REINFORCEMENT : T10@150 C/C BW (NOT SHOWN)
- TOP DISTRIBUTION STEEL : T10@300 BW (NOT SHOWN)
- REINFORCEMENT BARS WILL BE DISCONTINUOUS OVER VOIDS



ROOF SLAB REINFORCEMENT PLAN 1:100

NOTES			
<p>ARCHITECT</p>			
<p>CLIENT</p> <p>MINISTRY OF HEALTH</p>			
<p>PROJECT</p> <p>PROPOSED 3 STOREY EXTENSION OF ATOLL HOSPITAL</p>			
<p>G.N. EIVAHNULIHAH REPUBLIC OF MALDIVES</p>			
<p>STAGE DETAIL DESIGN</p>			
<p>CONTENTS</p> <p>ROOF SLAB REINFORCEMENT PLAN</p>			
<p>Hannan Yoosuf Architects MILANO (3RD FLOOR) RAHDHEBAI MAGU MACHCHANGOLHI MALE' 20159 MALDIVES TEL: (960) 331 8765 FAX: (960) 331 8763 EMAIL: info@hyanarchi.net WEB: www.hyanarchi.net</p>			
DESIGN SHIHAN	DRAWN IVA	CHECKED SHIHAN	
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LEGEND :

- ⬠ = 50X150MM TIMBER RAFTERS @900MM C/C
- ⬠ = 38X38MM TIMBER BATTENS @450MM C/C
- ⬠ = 25X250MM TIMBER FACIA FIXED ON THE EDGE OF RAFTERS

NOTES

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 GN ATOLL HOSPITAL

GN. FUVAHILULAH
 REPUBLIC OF MALDIVES

STAGE
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 HIGHER ROOF FRAMING PLAN

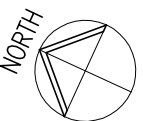
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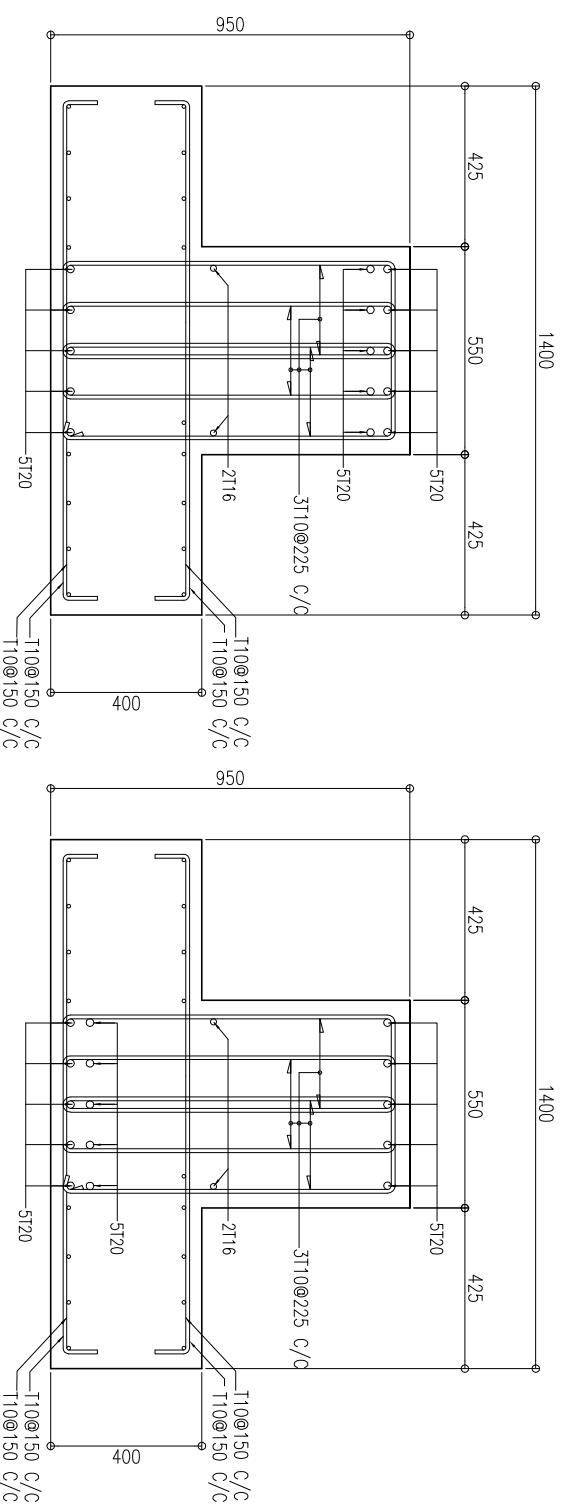
PROJECT NO.	2016/L-16/22	DRAWING NO.	S-12
PROJECT DATE	APRIL 2016	OF	17

HIGHER ROOF FRAMING PLAN 1:100

1

ST-12/17





MID SPAN

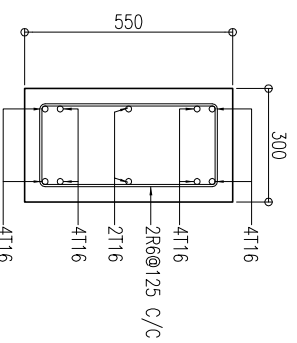
ST1

SUPPORT

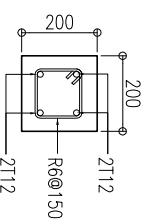
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ST-13/17

FOUNDATION STRIP 'ST1' DETAIL 1:20

PAD	SIZE	REINFORCEMENT
F1	1900 X 1900 X 400	1T12@75 C/C BW (B)
F2	2150 X 2150 X 400	1T12@75 C/C BW (B)
F3	1600 X 1600 X 400	1T10@100 C/C BW (B)
F4	1200 X 1200 X 200	1T10@150 C/C BW (B)

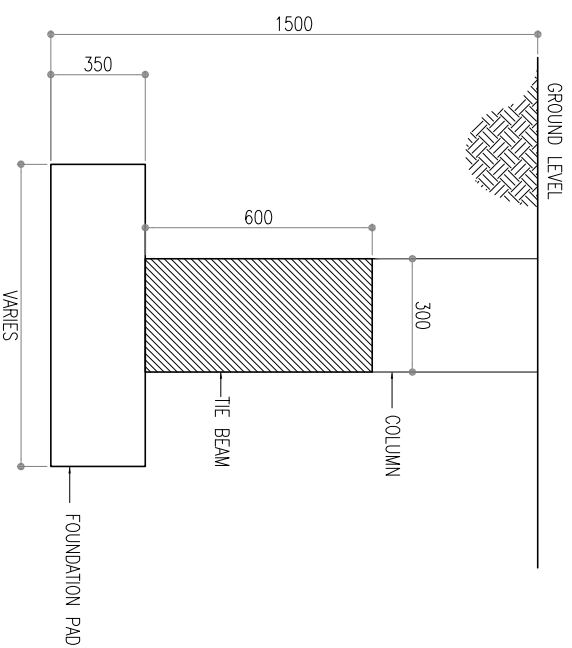


TB



FB

FOUNDATION BEAM



FOUNDATION PAD

VARIES

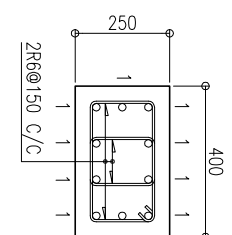
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ST-13/17

FOOTING, TIE BEAM AND FOUNDATION BEAM DETAILS 1:20

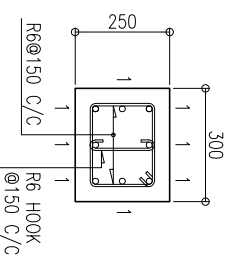
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ST-13/17

COLUMN DETAILS 1:20

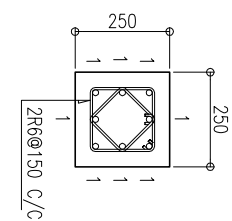
1=1T16 REBAR
2=1T12 REBAR



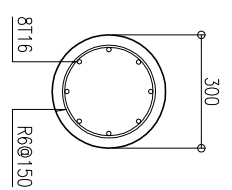
C1



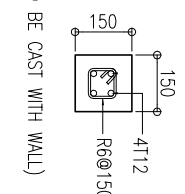
C2



C3



C4



C5

(TO BE CAST WITH WALL)

NOTES

- DESIGN CODE ADOPTED: BUILDING (CONSTRUCTION) REGULATION, LOCAL AUTHORITY REQUIREMENT & BS8110.
- CONCRETE MIX WITH A NORMAL SLUMP LESS THAN 75MM SHALL NOT BE USED UNLESS THE CONTRACTOR CAN DEMONSTRATE THAT PROPER COMPACTION CAN BE ACHIEVED WITH A LOWER SLUMP WHICH SHALL IN NO CASE BE LESS THAN 50MM.
- ORDINARY PORTLAND CEMENT SHALL BE TO B.S.12 : 1989
- MIX DESIGN RATIO FOR ALL CONCRETE WORKS SHALL BE 1:2:3
MINIMUM YIELD STRENGTH OF SHEAR REINFORCEMENT - 215 MPa
MINIMUM YIELD STRENGTH OF MAIN REINFORCEMENT - 400 MPa
CHARACTERISTIC COMPRESSIVE STRENGTH OF CONCRETE - 30 MPa
- MIN. REINFORCEMENT CLEAR COVERS :
- FOUNDATION BEAMS 50MM (BOT, TOP, SIDES)
- COLUMNS 40MM (SIDES)
- SLAB BEAM 35MM (BOT), 40MM (SIDES)
- SLAB 30MM (BOT), 40MM (SIDES)
- SPECIFICATIONS FOR CONCRETE WORKS
- USE RIVER SAND AND GRANITE FOR AGGREGATES.
- USE WATER FREE OF SALT AND ANY OTHER IMPURITIES
- THE ALLOWABLE BEARING PRESSURE OF SOIL TO BE 150 kPa

NOTES

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CLIENT
MINISTRY OF HEALTH

PROJECT
PROPOSED 3 STOREY EXTENSION OF GN ATOLL HOSPITAL

DESIGN
G.N. FUVAHNULAH
REPUBLIC OF MALDIVES

STAGE
DETAIL DESIGN

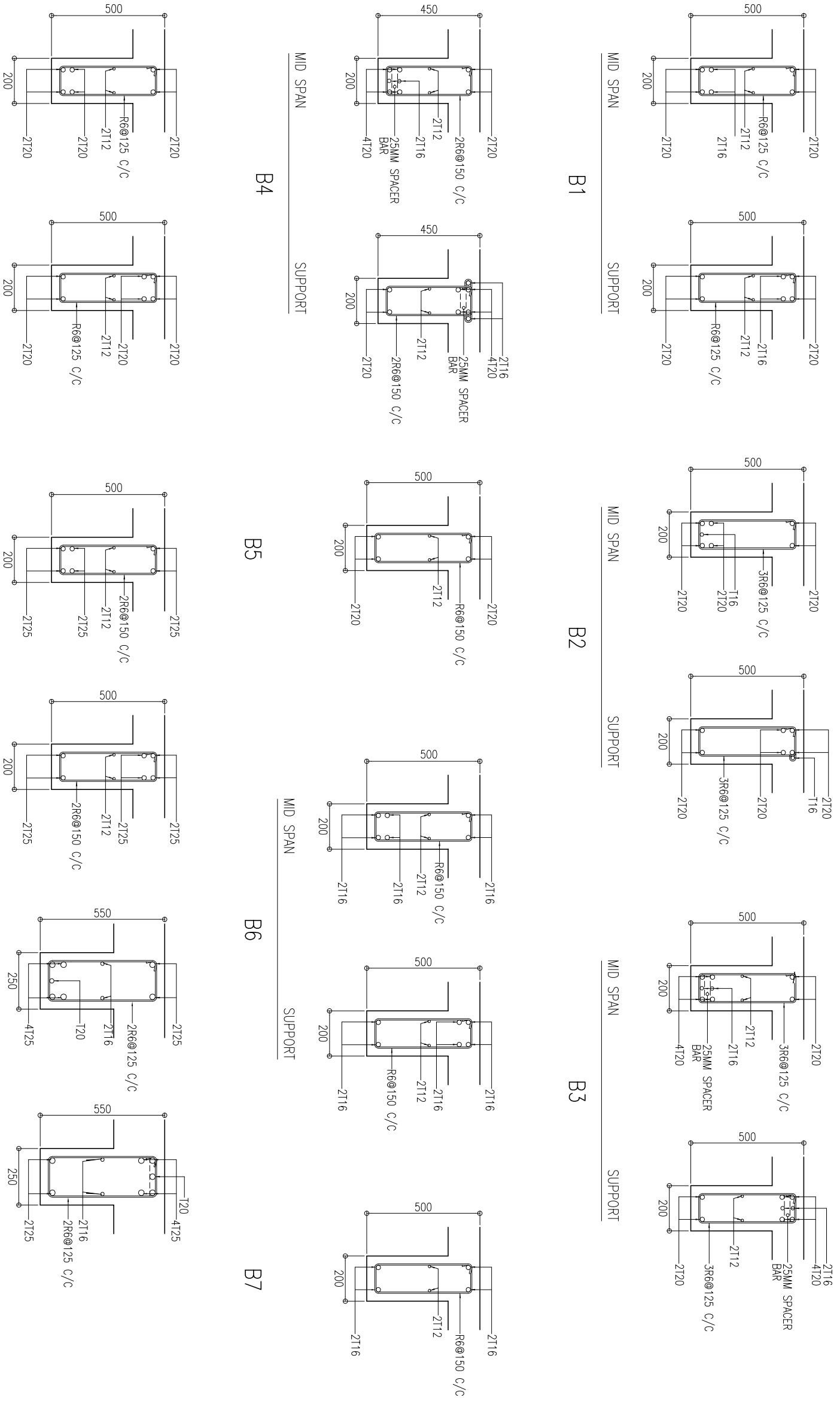
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FOUNDATIONS STRIP 'ST1' DETAIL
FOOTING, TIE BEAM AND FOUNDATION BEAM DETAIL
COLUMN DETAILS

PROJECT NO. 2016/L-16/22
PROJECT DATE APRIL 2016

DRAWING NO. S-13
OF 17

DRAWN
SHIHAN IVA

CHECKED
SHIHAN



1
BEAM DETAILS 1 1:20

SF-14/17

NOTES

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PROJECT
PROPOSED 3 STOREY EXTENSION OF GN ATOLL HOSPITAL

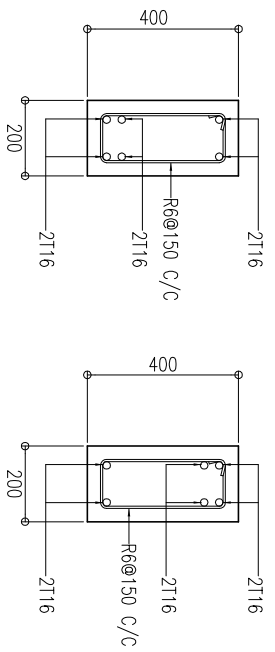
G.N. FUVAHILULAH
 REPUBLIC OF MALDIVES

STAGE
 DETAIL DESIGN

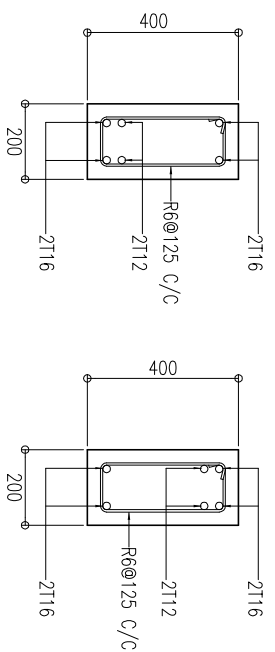
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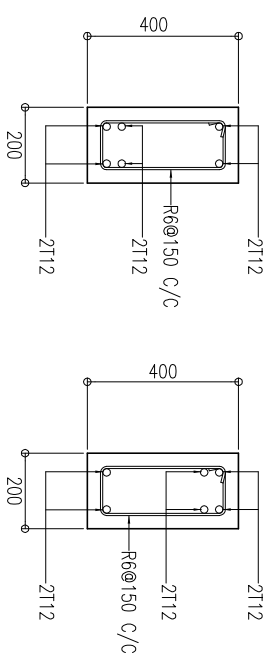
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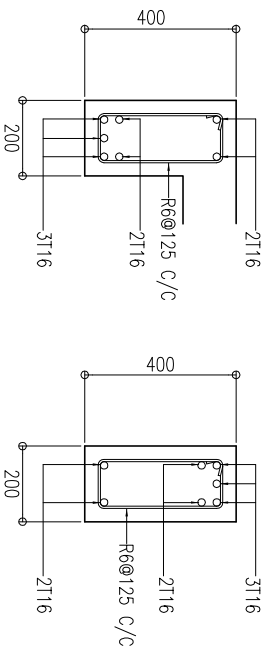
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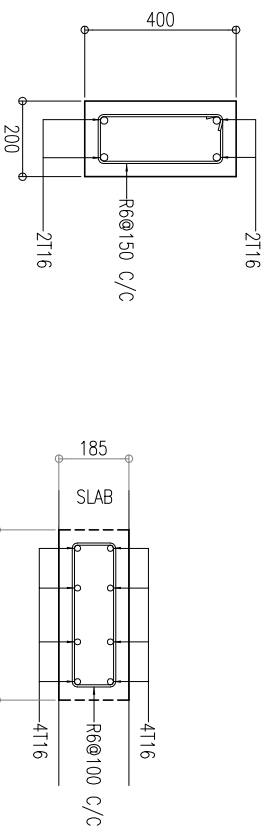
RB2



RB3

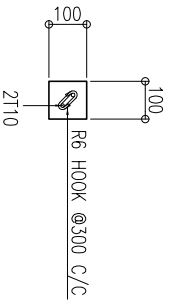


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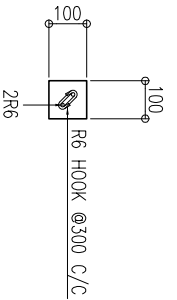
RB5

HB



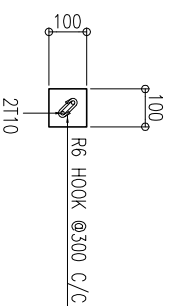
BRACE BEAM

AT 900MM FROM FINISHED FLR LVL



CONCRETE LEDGE

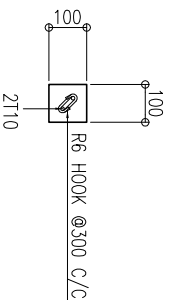
ALL EXTERIOR AND TOILET WALLS



SILL BEAM

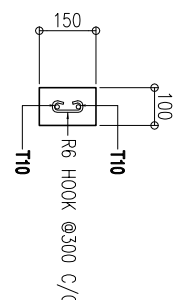
LINTEL BEAM

LENGTH UPTO 2000MM



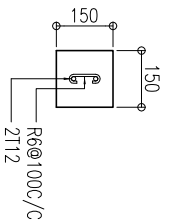
LINTEL BEAM

LENGTH ABOVE 2000MM



WB

MONOLITHICALLY CASTED WITH MASONRY WALL



1
S-15/17

BEAM DETAILS 2 1:20

NOTES

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ARCHITECT

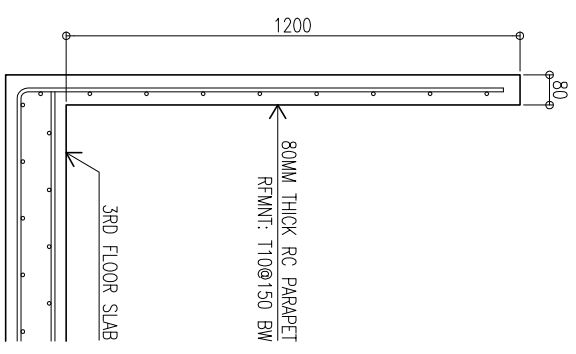


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MINISTRY OF HEALTH

PROJECT	PROPOSED 3 STOREY EXTENSION OF GN ATOLL HOSPITAL
DESIGN	G.N. FUVAHULUHA
REPUBLIC OF MALDIVES	
STAGE	DETAIL DESIGN
CONTENTS	BEAM DETAILS 2

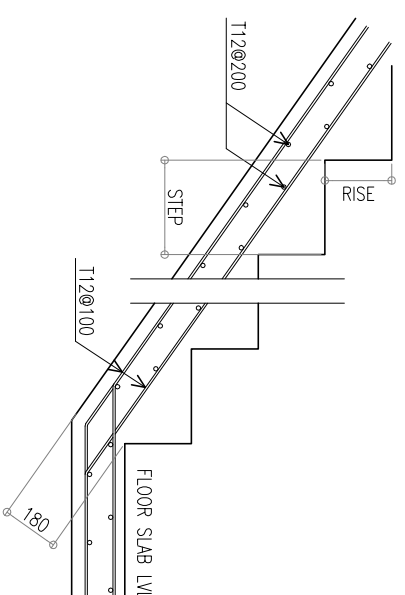
DESIGN	SHIHAN	DRAWN	IYA	CHECKED	SHIHAN
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2ND FLOOR AND TERRACE LVL
RC PARAPET DETAIL 1:20

1
ST-16/17

BALCONY & TERRACE PARAPET DETAILS 1:20



SECTION DETAILS (TYPICAL FLOORS) 1:20

2
ST-16/17

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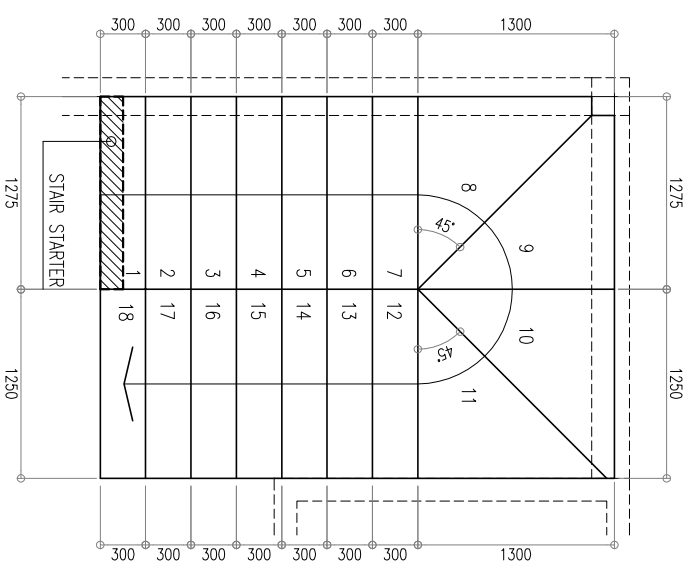
PROJECT
PROPOSED 3 STOREY EXTENSION OF GN ATOLL HOSPITAL

GN. FUVAHULIHAH
REPUBLIC OF MALDIVES

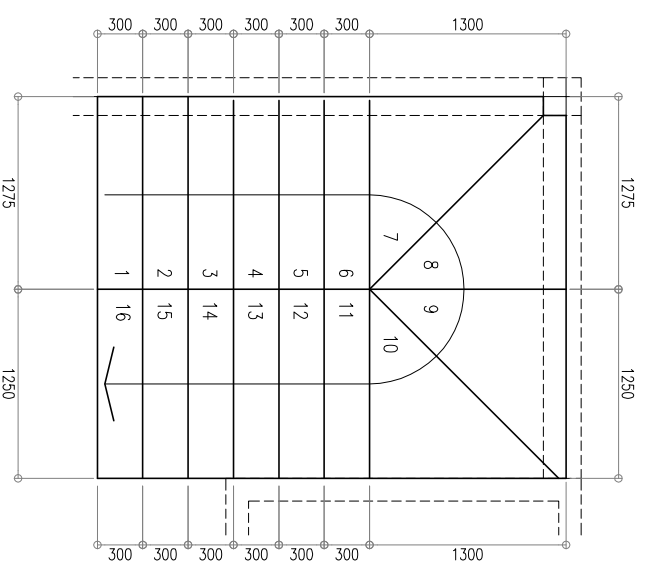
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BALCONY & TERRACE
PARAPET DETAILS

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PLAN 1:50
GROUND-1ST FLOOR LVL



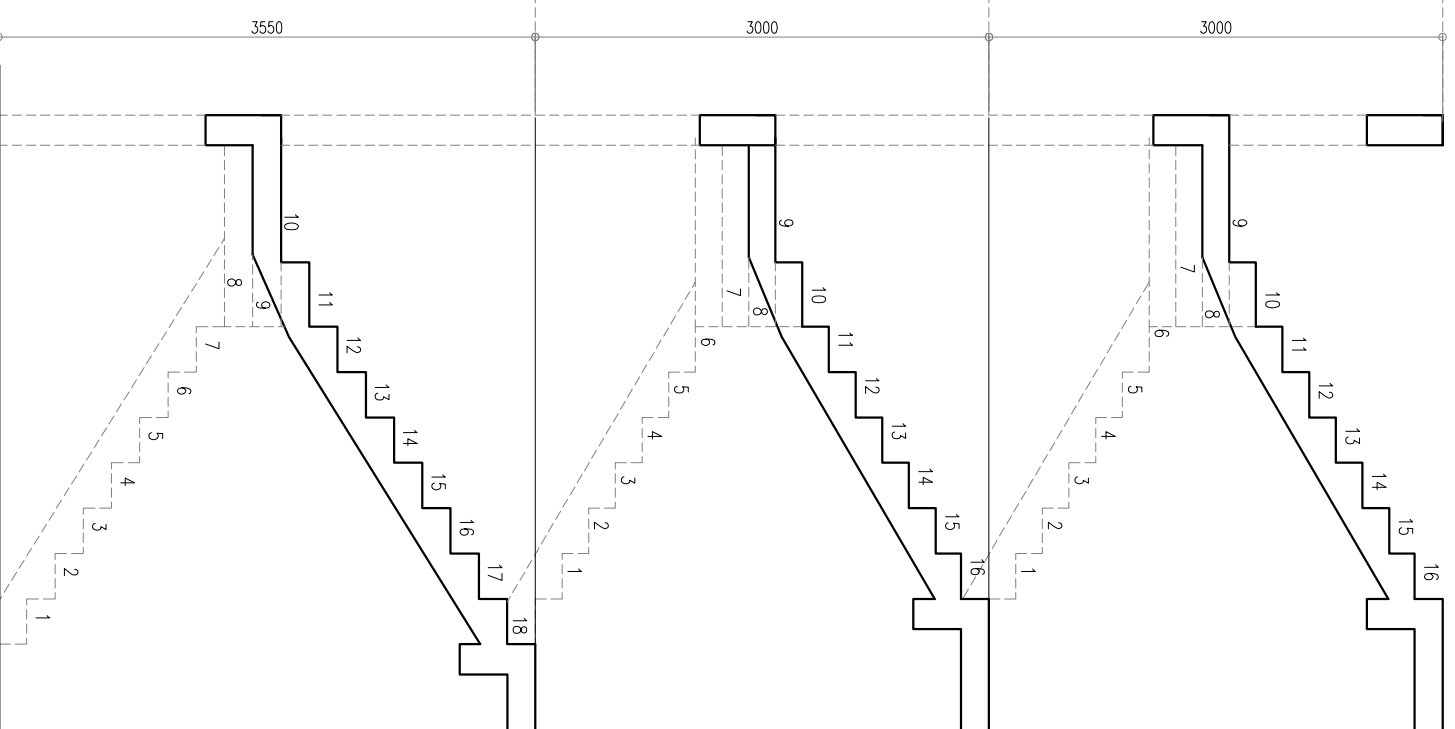
PLAN 1:50
1ST-TERRACE FLOOR LVL

ROOF TERRACE LVL

2ND FLR LVL

1ST FLR LVL

GRND FLR LVL



STAIR SECTION 1:50

STAIR DETAILS

1
ST-17/17



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PROJECT
**PROPOSED 3 STOREY EXTENSION OF
GN ATOLL HOSPITAL**

GN. EYVAHILULAH
REPUBLIC OF MALDIVES

STAGE
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