

K.VILLINGILI  
VILLIMALE' HOSPITAL EMERGENCY ROOM  
DETAILED DESIGN

DOCUMENT NO:

DESIGNED BY:  
ROAD DEVELOPMENT CORPORATION  
ORCHID MAGU, MAAFANNU, MALE', REPUBLIC OF MALDIVES

CLIENT:  
MINISTRY OF HEALTH  
SOSUN MAGU, HENVEIRU, MALE', REPUBLIC OF MALDIVES

2026





LEGENDS:

ISLAND MAP  
NOT TO SCALE

A01



COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU  
MALE

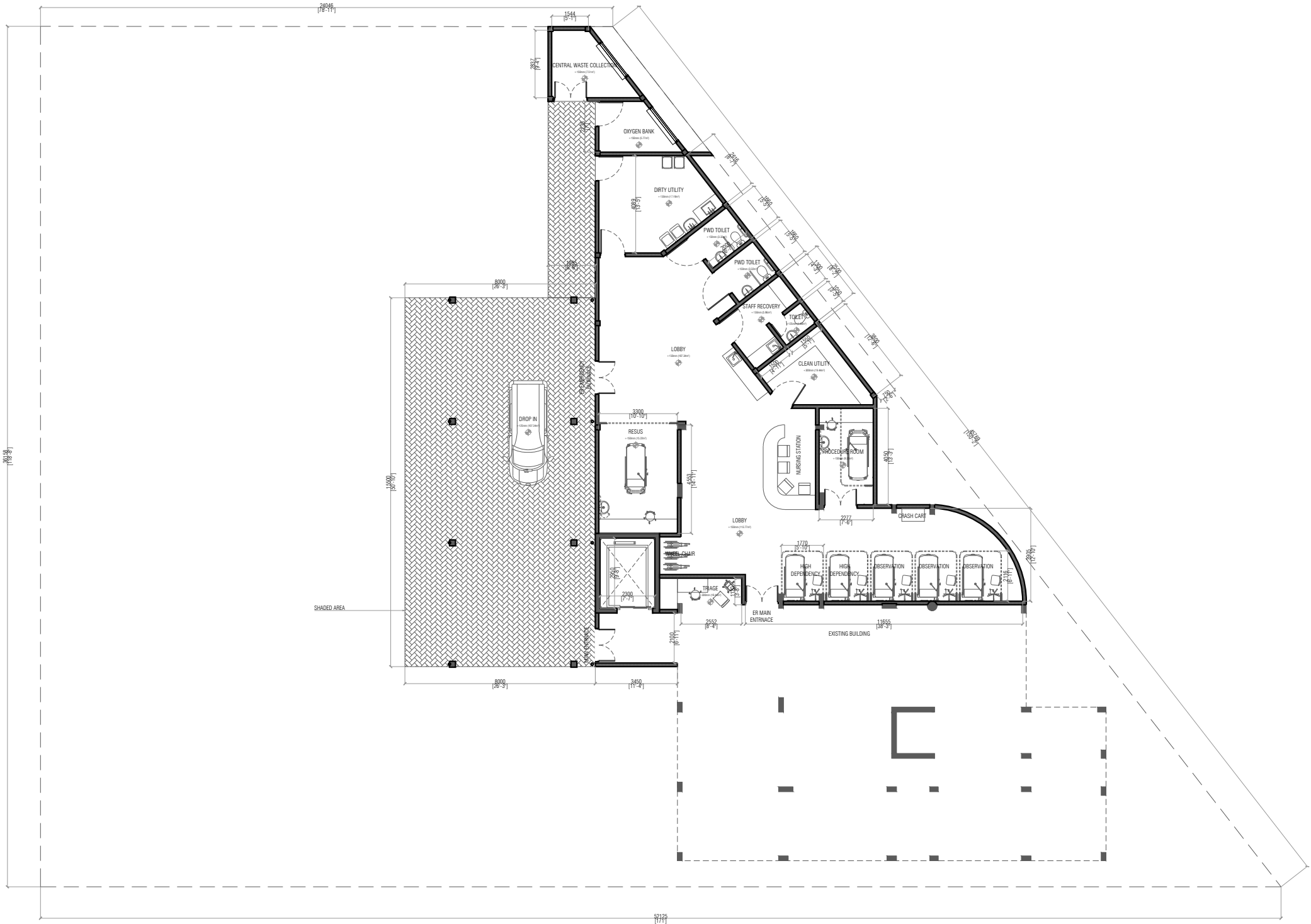
LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

ISLAND MAP  
NOT TO SCALE

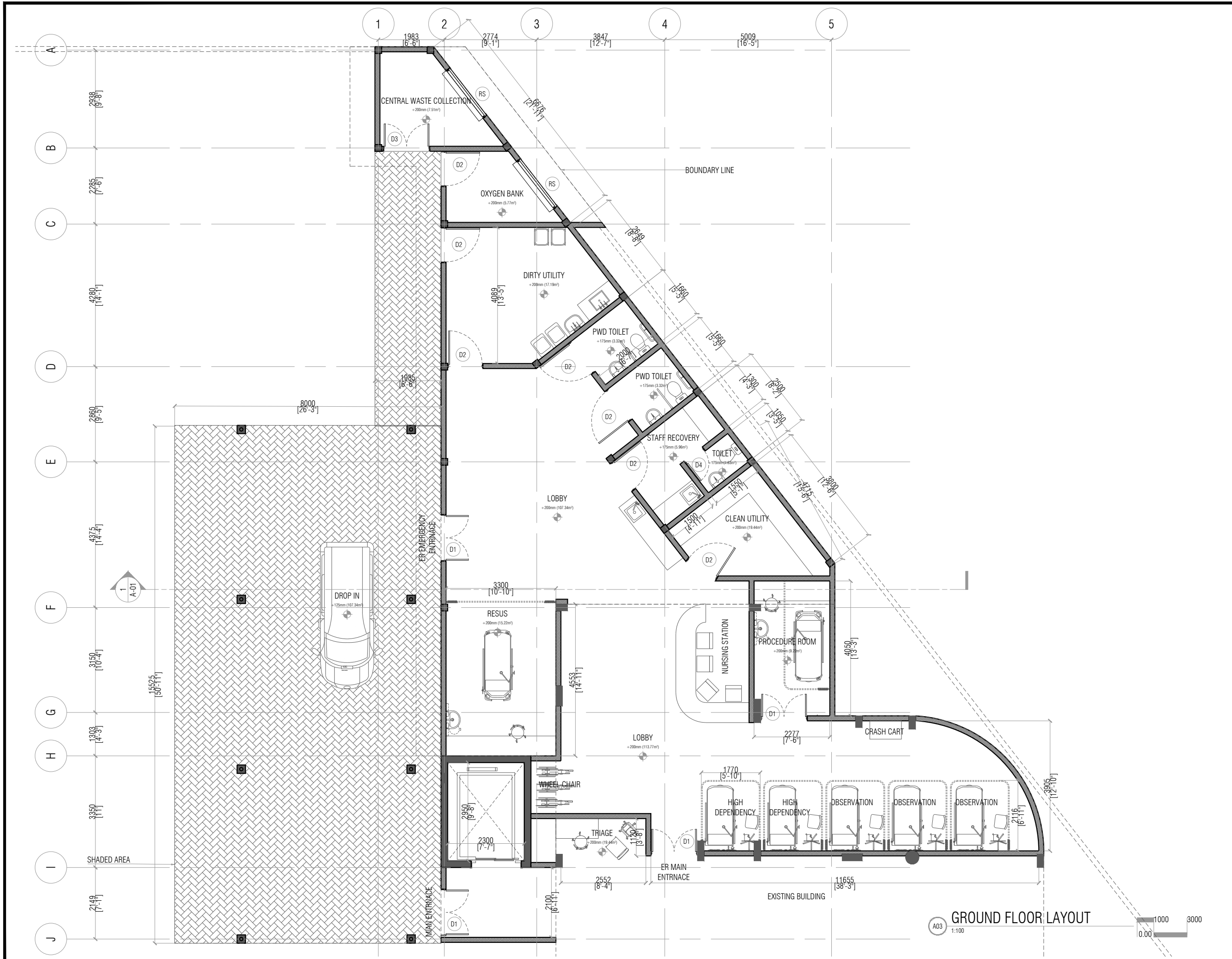
|            |               |
|------------|---------------|
| DRAWN BY   | ISMAIL SHIYAZ |
| CHECKED BY | ALI ZAMEER    |
| DATE:      | MARCH 2026    |
| PAGE NO:   |               |
| SCALE:     | AS GIVEN      |
| A02        |               |



A02 SITE PLAN  
1:200



COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU MALE

LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

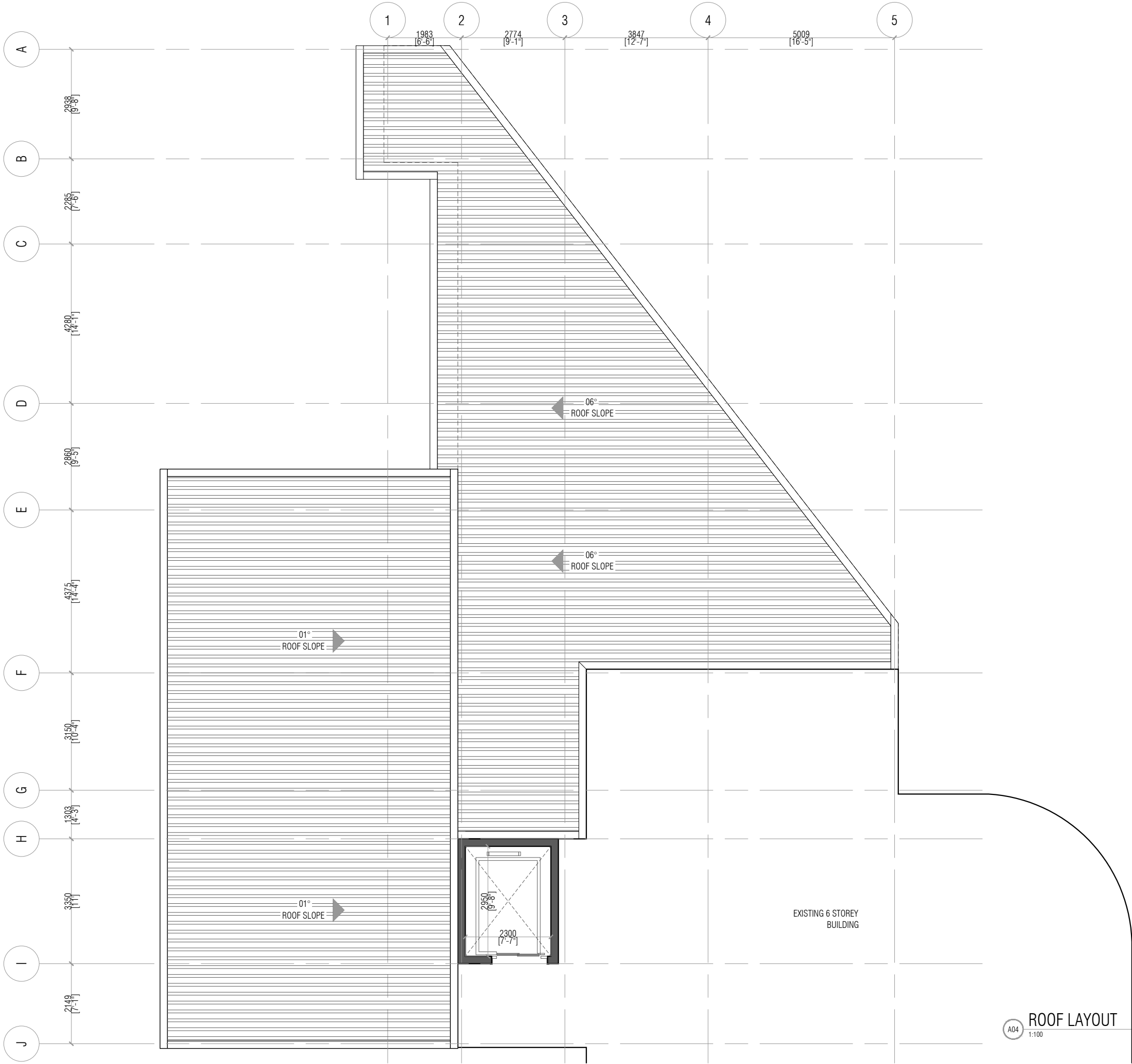
ISLAND MAP  
NOT TO SCALE

|            |               |          |
|------------|---------------|----------|
| DRAWN BY   | ISMAIL SHIYAZ |          |
| CHECKED BY | ALI ZAMEER    |          |
| DATE:      | MARCH 2026    | PAGE NO: |
| SCALE:     | AS GIVEN      | A03      |

A03 1:100 GROUND FLOOR LAYOUT



COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU  
MALE

LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

ISLAND MAP  
NOT TO SCALE

|            |               |          |
|------------|---------------|----------|
| DRAWN BY   | ISMAIL SHIYAZ |          |
| CHECKED BY | ALI ZAMEER    |          |
| DATE:      | MARCH 2026    | PAGE NO: |
| SCALE:     | AS GIVEN      | A04      |

COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED



ROAD DEVELOPMENT  
CORPORATION

ORCHID MAGU  
MALE

LEGENDS:

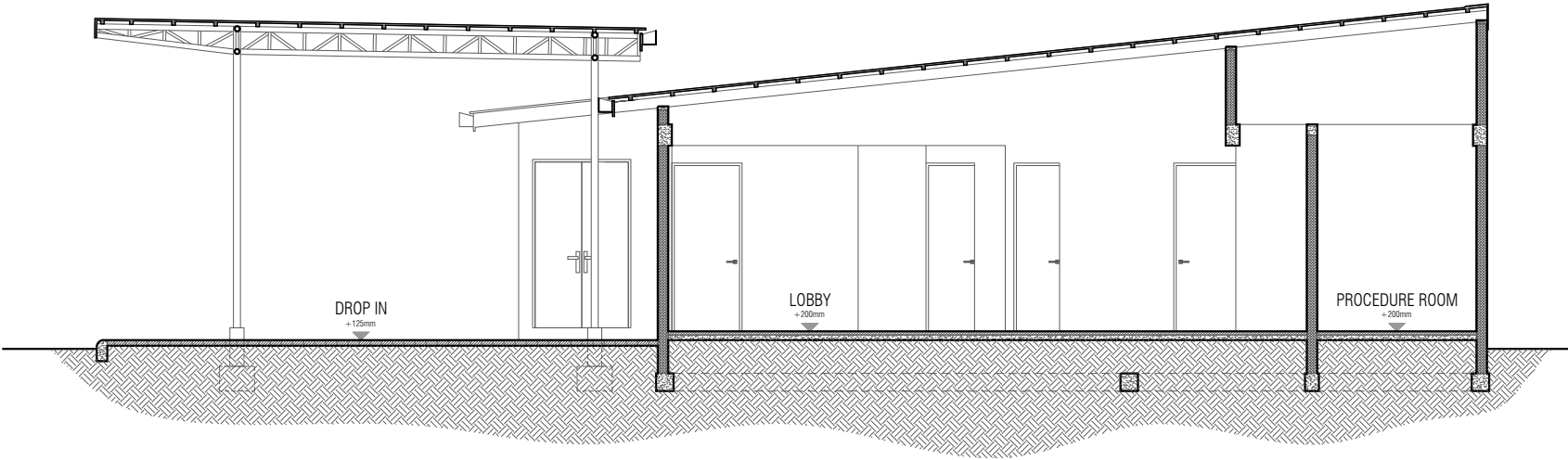
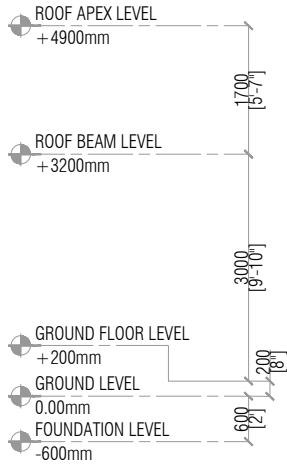
PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

ISLAND MAP  
NOT TO SCALE

|            |               |
|------------|---------------|
| DRAWN BY   | ISMAIL SHIYAZ |
| CHECKED BY | ALI ZAMEER    |
| DATE:      | MARCH 2026    |
| PAGE NO:   |               |
| SCALE:     | AS GIVEN      |

A05



A05  
1:100

SECTION XX



COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU  
MALE'

LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

ISLAND MAP  
NOT TO SCALE

|            |               |
|------------|---------------|
| DRAWN BY   | ISMAIL SHIYAZ |
| CHECKED BY | ALI ZAMEER    |
| DATE:      | MARCH 2026    |
| PAGE NO:   |               |
| SCALE:     | AS GIVEN      |

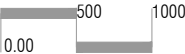
A06

|               |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                 |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| PLAN          |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                 |
| ELEVATION     |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                                                                                                                          |                                                                                 |
| DOOR / WINDOW | D1                                                                                                                                                                                       | D2                                                                                                                                                                                       | D3                                                                                                                                                                                       | D4                                                                                                                                                                                       | D4                                                                              |
|               | SWING DOOR                                                                                                                                                                               | SWING DOOR                                                                                                                                                                               | SWING DOOR                                                                                                                                                                               | SWING DOOR                                                                                                                                                                               | WHITE POWDER COATED ALUMINIUM ROLLER SHUTTER                                    |
| REMARKS       | <ul style="list-style-type: none"><li>• 02 NOS. OPENABLE DOOR PANEL</li><li>• 08 NOS. HINGES</li><li>• 02 NOS. DOOR HANDLE</li></ul> <p>(GRP hermetically hygenic sealed door panel)</p> | <ul style="list-style-type: none"><li>• 01 NOS. OPENABLE DOOR PANEL</li><li>• 04 NOS. HINGES</li><li>• 01 NOS. DOOR HANDLE</li></ul> <p>(GRP hermetically hygenic sealed door panel)</p> | <ul style="list-style-type: none"><li>• 02 NOS. OPENABLE DOOR PANEL</li><li>• 08 NOS. HINGES</li><li>• 02 NOS. DOOR HANDLE</li></ul> <p>(GRP hermetically hygenic sealed door panel)</p> | <ul style="list-style-type: none"><li>• 01 NOS. OPENABLE DOOR PANEL</li><li>• 04 NOS. HINGES</li><li>• 01 NOS. DOOR HANDLE</li></ul> <p>(GRP hermetically hygenic sealed door panel)</p> | <ul style="list-style-type: none"><li>• 01 NOS. ROLLER SHUTTER SYSTEM</li></ul> |
| LOCATION      | • ER                                                                                                                                                                                     | • ER                                                                                                                                                                                     | • WASTE                                                                                                                                                                                  | • STAFF RECOVERY                                                                                                                                                                         | • ER                                                                            |
| QUANTITY      | 04                                                                                                                                                                                       | 07                                                                                                                                                                                       | 01                                                                                                                                                                                       | 01                                                                                                                                                                                       | 02                                                                              |
| OPEN AREA     | 3.28m <sup>2</sup>                                                                                                                                                                       | 2.34m <sup>2</sup>                                                                                                                                                                       | 3.28m <sup>2</sup>                                                                                                                                                                       | 1.49m <sup>2</sup>                                                                                                                                                                       | 4.09m <sup>2</sup>                                                              |

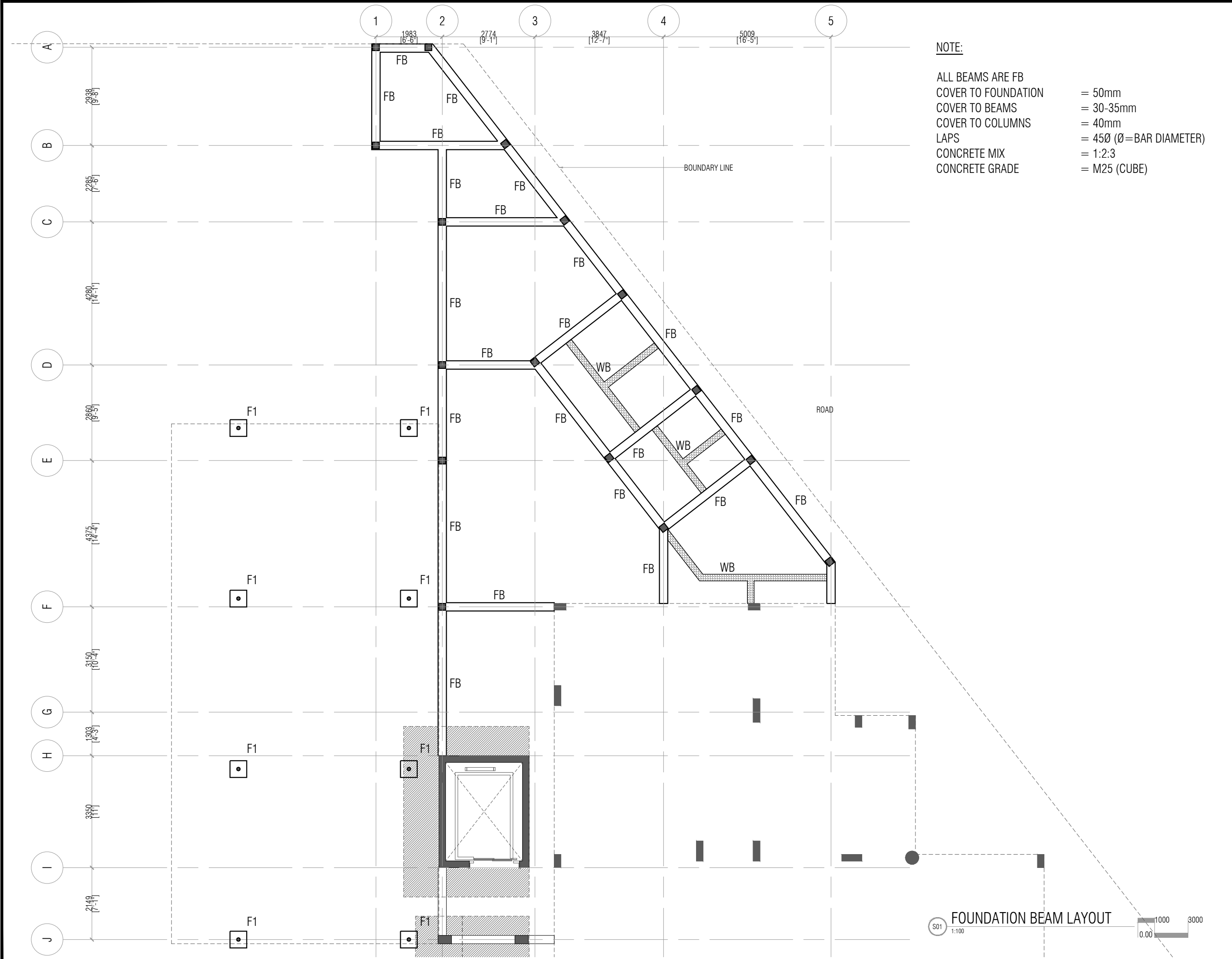
- NOTE:
- ALL MEASUREMENTS TO BE CHECKED AT SITE BY THE CONTRACTOR BEFORE FABRICATION.
  - G: GLASS PANEL
  - FG : FIXED GLASS PANEL
  - T : TREATED TIMBER
  - AL : ALUMINIUM
  - GRP : GLASS REINFORCED POLYESTER

A06  
1:50

DOOR & WINDOW SCHEDULE



COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED



**NOTE:**

ALL BEAMS ARE FB  
COVER TO FOUNDATION  
COVER TO BEAMS  
COVER TO COLUMNS  
LAPS  
CONCRETE MIX  
CONCRETE GRADE

= 50mm  
= 30-35mm  
= 40mm  
= 45Ø (Ø=BAR DIAMETER)  
= 1:2:3  
= M25 (CUBE)



**ROAD DEVELOPMENT CORPORATION**

ORCHID MAGU  
MALE'

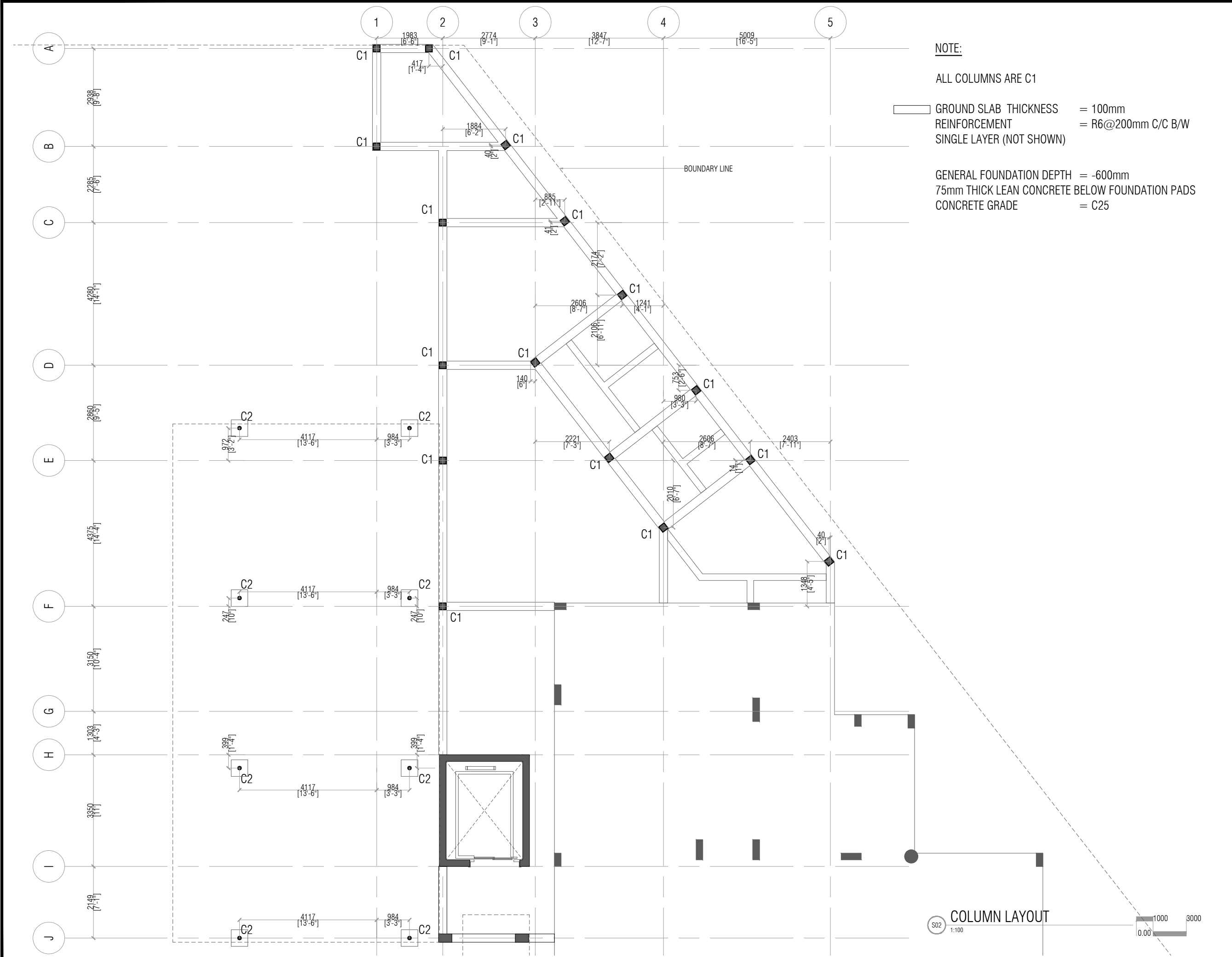
LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

|                            |               |
|----------------------------|---------------|
| ISLAND MAP<br>NOT TO SCALE |               |
| DRAWN BY                   | ISMAIL SHIYAZ |
| CHECKED BY                 | ALI ZAMEER    |
| DATE:                      | MARCH 2026    |
| PAGE NO:                   |               |
| SCALE:                     | AS GIVEN      |
| S01                        |               |

COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED





**ROAD DEVELOPMENT CORPORATION**

ORCHID MAGU  
MALE'

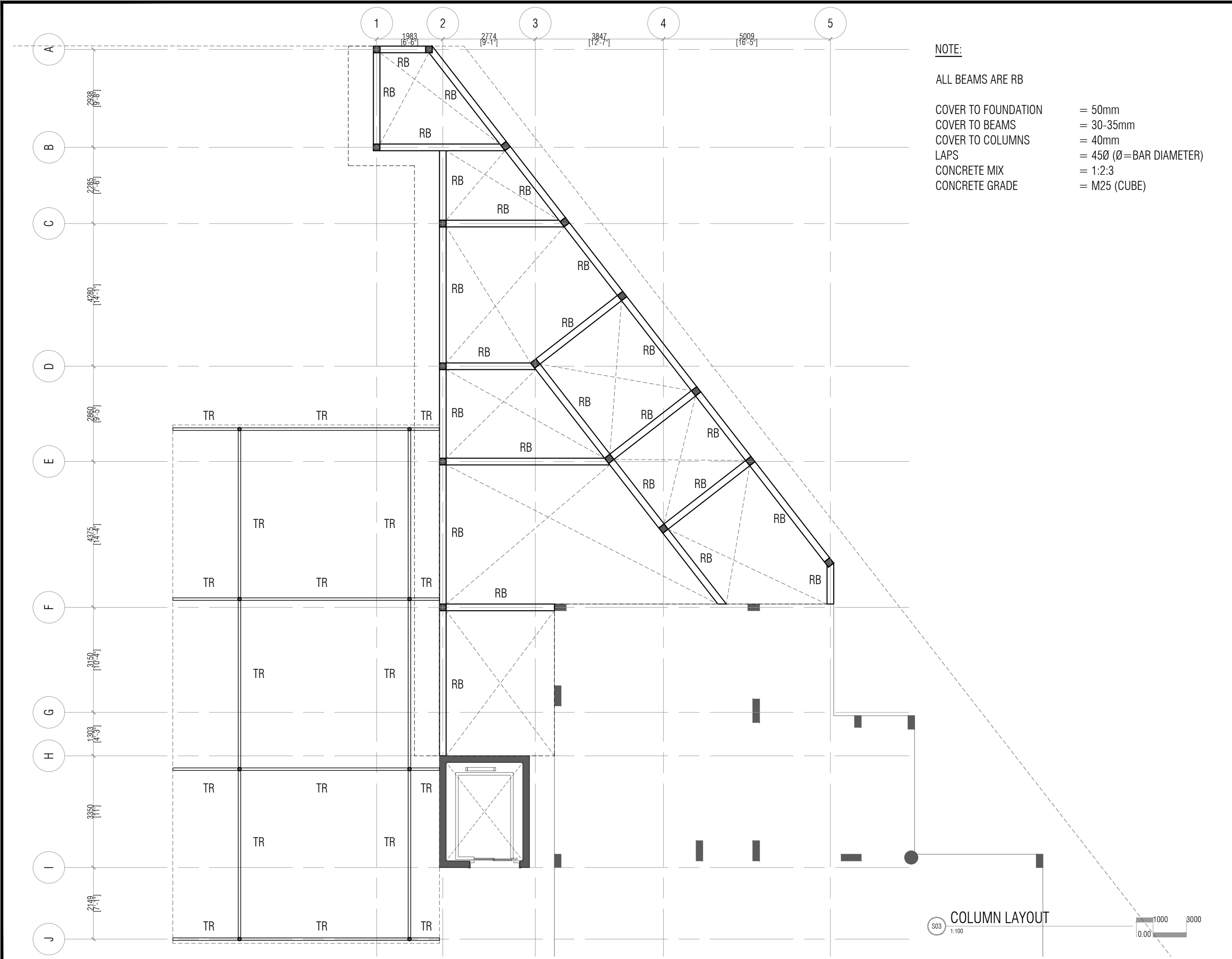
LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

|            |               |            |
|------------|---------------|------------|
| DRAWN BY   | ISMAIL SHIYAZ |            |
| CHECKED BY | ALI ZAMEER    |            |
| DATE:      | MARCH 2026    | PAGE NO:   |
| SCALE:     | AS GIVEN      | <b>S02</b> |

COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED





**ROAD DEVELOPMENT CORPORATION**

ORCHID MAGU  
MALE'

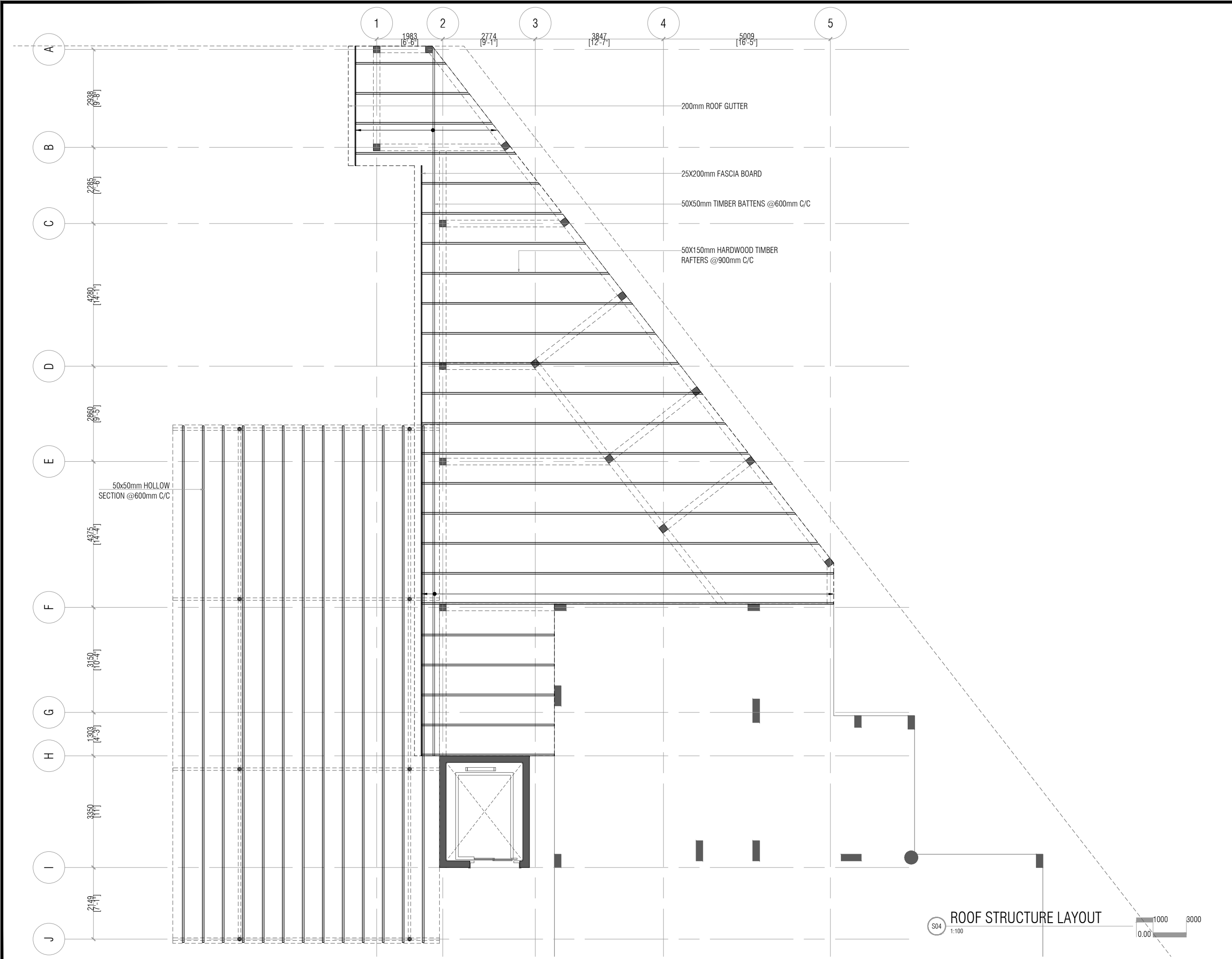
LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

|                  |               |
|------------------|---------------|
| DRAWN BY         | ISMAIL SHIYAZ |
| CHECKED BY       | ALI ZAMEER    |
| DATE: MARCH 2026 | PAGE NO:      |
| SCALE: AS GIVEN  | S03           |

COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED





**ROAD DEVELOPMENT CORPORATION**

ORCHID MAGU  
MALE'

LEGENDS:

**PROJECT:**  
VILLIMALE HOSPITAL ER

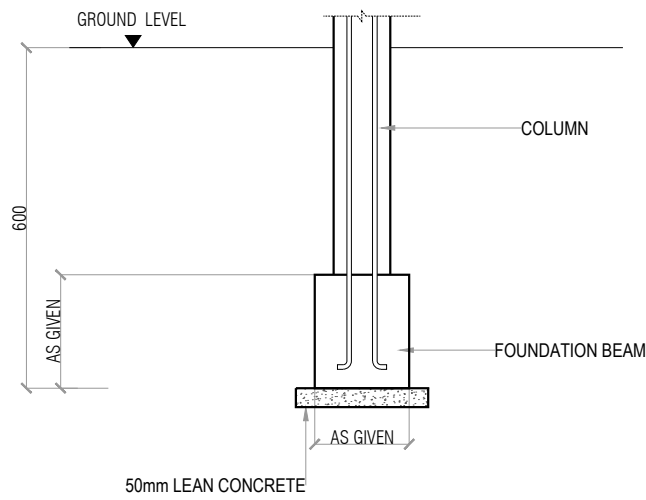
**DRAWING TITLE:**  
DETAILED DESIGN

|                                           |               |
|-------------------------------------------|---------------|
| ISLAND MAP<br><small>NOT TO SCALE</small> |               |
| DRAWN BY                                  | ISMAIL SHIYAZ |
| CHECKED BY                                | ALI ZAMEER    |
| DATE:                                     | MARCH 2026    |
| PAGE NO:                                  |               |
| SCALE:                                    | AS GIVEN      |

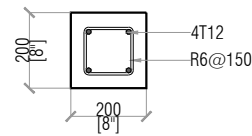
**S04**

COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED

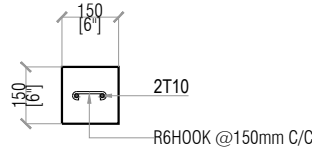
FOUNDATION DETAILS



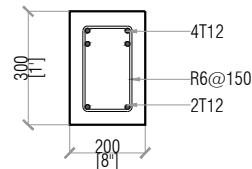
TYPICAL FOOTING DETAIL



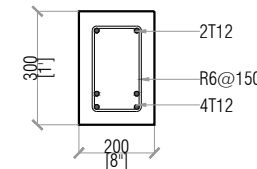
C1



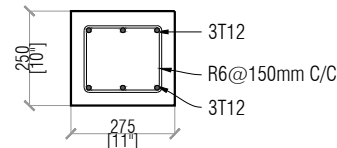
STIFFENER COLUMN



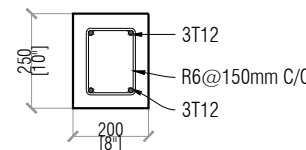
SUPPORT



MIDSPAN



FB



WB

(BELOW WALLS NOT COINCIDING WITH THE BEAMS AT GROUND FLOOR LEVEL)

RC NOTE

1. ALL CONCRETE ELEMENT DESIGN CONFORMS TO BS8110
2. ALL CONCRETE MINIMUM COMPRESSIVE STRENGTH TO BE 25N/mm<sup>2</sup>
3. CONCRETE MIX RATION 1:2:3
4. MAIN REINFORCEMENT STEEL TO BE HIGH STRENGTH DEFORMED BARS
5. RIVER SAND & GRANITE TO BE USED AS AGGREGATES
6. USE WATER FREE OF SALT & ANY OTHER IMPURITIES
7. ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION WHEN CONCRETING BY USING SPACERS
8. LAPS AS GIVEN BELOW UNLESS NOTED OTHERWISE:  
BENDS = 45Ø  
END SUPPORT = 12Ø
9. COVER TO REINFORCEMENTS AS GIVEN BELOW UNLESS NOTED OTHERWISE:  
FOOTING = 50mm  
TIE BEAMS = 35mm  
FLOOR BEAMS = 35mm (TOP/BOT), 35mm (SIDES)  
ROOF BEAMS = 35mm (TOP/BOT), 35mm (SIDES)  
COLUMN = 35mm  
SLAB = 35mm (TOP/BOT)

11. SPACE BARS OF 25mm TO BE PLACED BETWEEN LAYERS OF REINFORCEMENT.
12. SPACE BARS SHOULD NOT EXCEED MORE THAN 30mm.

MID-SPAN

LENGTH = 0.80 x SPAN

NOTE

APPLY TWO LAYERS OF DAMP PROOFING AGENT TO ALL SURFACES OF CONCRETE THAT COMES BELOW NATURAL GROUND LEVEL.



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU MALE'

LEGENDS:

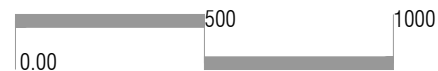
PROJECT:  
VILLIMALE HOSPITAL ER

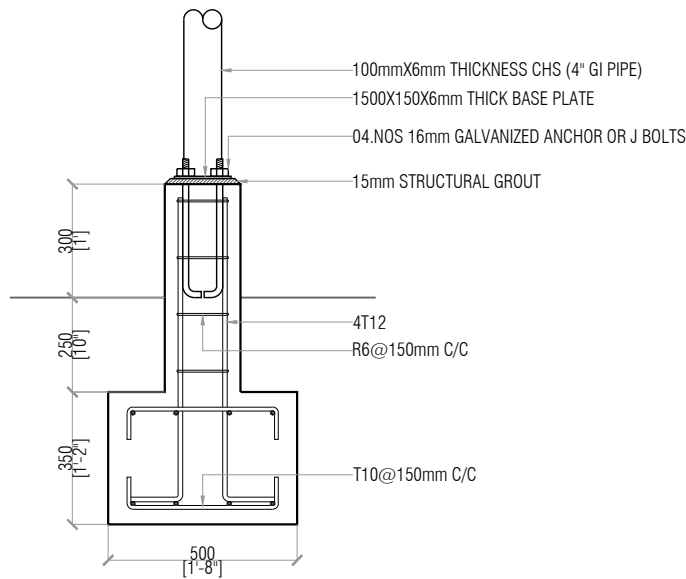
DRAWING TITLE:  
DETAILED DESIGN

ISLAND MAP  
NOT TO SCALE

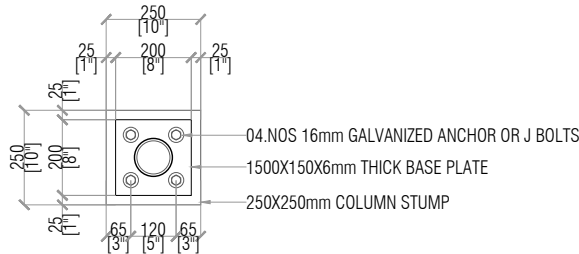
|                  |               |
|------------------|---------------|
| DRAWN BY         | ISMAIL SHIYAZ |
| CHECKED BY       | ALI ZAMEER    |
| DATE: MARCH 2026 | PAGE NO:      |
| SCALE: AS GIVEN  | S05           |

S05  
1:20  
STRUCTURAL DETAILS

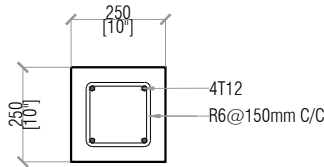




FOOTING (F1) DETAIL



C1



C1 - STUMP

RC NOTE

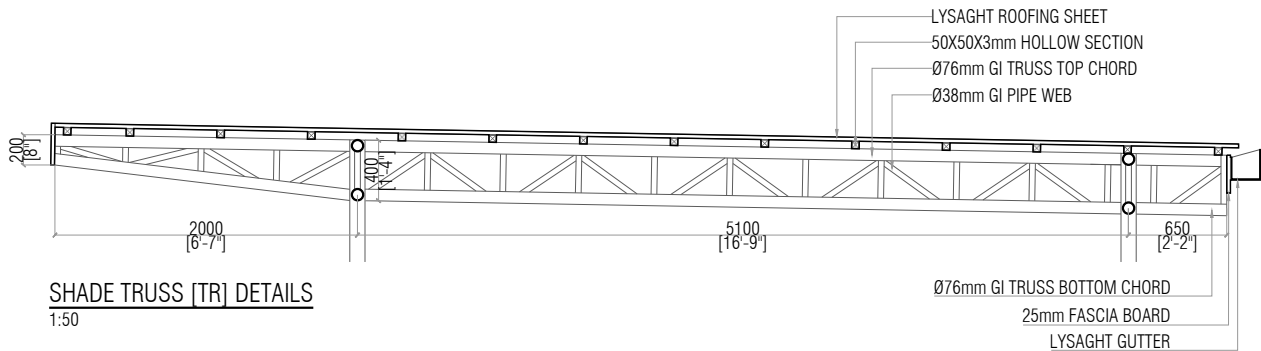
- ALL CONCRETE ELEMENT DESIGN CONFORMS TO BS8110
- ALL CONCRETE MINIMUM COMPRESSIVE STRENGTH TO BE 25N/mm<sup>2</sup>
- CONCRETE MIX RATION 1:2:3
- MAIN REINFORCEMENT STEEL TO BE HIGH STRENGTH DEFORMED BARS
- RIVER SAND & GRANITE TO BE USED AS AGGREGATES
- USE WATER FREE OF SALT & ANY OTHER IMPURITIES
- ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION WHEN CONCRETING BY USING SPACERS
- LAPS AS GIVEN BELOW UNLESS NOTED OTHERWISE:  
BENDS = 45°  
END SUPPORT = 120°
- COVER TO REINFORCEMENTS AS GIVEN BELOW UNLESS NOTED OTHERWISE:  
FOOTING = 50mm  
TIE BEAMS = 35mm  
FLOOR BEAMS = 35mm (TOP/BOT), 35mm (SIDES)  
ROOF BEAMS = 35mm (TOP/BOT), 35mm (SIDES)  
COLUMN = 35mm  
SLAB = 35mm (TOP/BOT)
- SPACE BARS OF 25mm TO BE PLACED BETWEEN LAYERS OF REINFORCEMENT.
- SPACE BARS SHOULD NOT EXCEED MORE THAN 30mm.

MID-SPAN

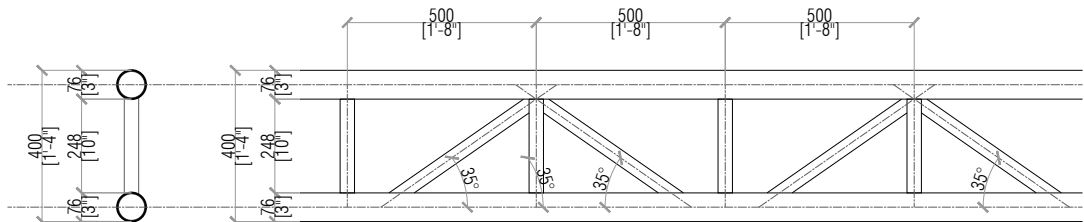
LENGTH = 0.80 x SPAN

NOTE

APPLY TWO LAYERS OF DAMP PROOFING AGENT TO ALL SURFACES OF CONCRETE THAT COMES BELOW NATURAL GROUND LEVEL.



SHADE TRUSS [TR] DETAILS  
1:50



TYPICAL TRUSS [TR] DETAILS



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU MALE'

LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

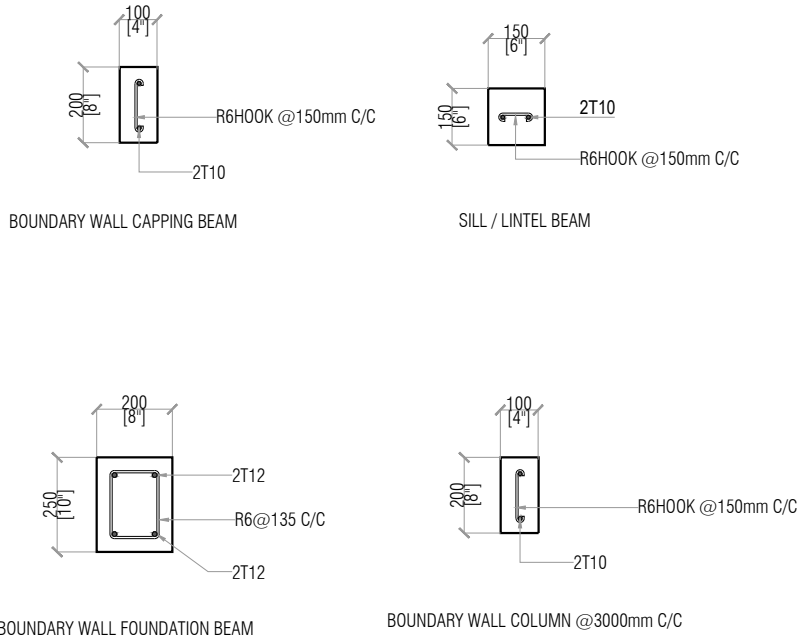
DRAWING TITLE:  
DETAILED DESIGN

ISLAND MAP  
NOT TO SCALE

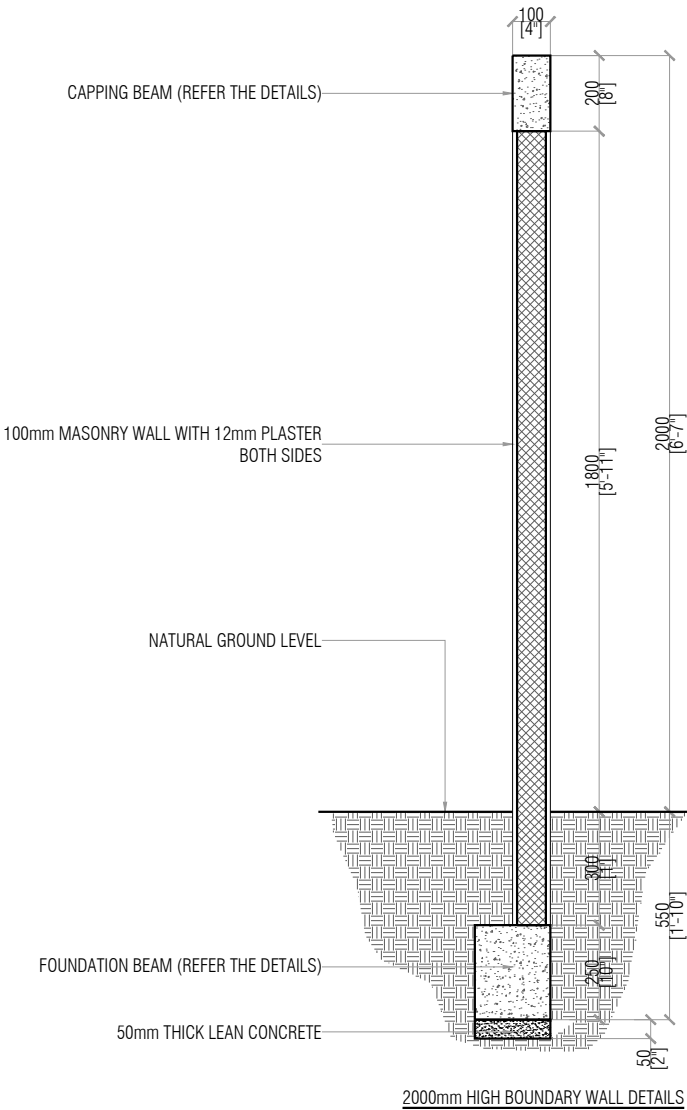
|            |               |
|------------|---------------|
| DRAWN BY   | ISMAIL SHIYAZ |
| CHECKED BY | ALI ZAMEER    |
| DATE:      | MARCH 2026    |
| SCALE:     | AS GIVEN      |
| PAGE NO:   | S06           |



BOUNDARY WALL DETAILS



NOTES:  
COVER TO COLUMNS = 40MM  
COVER TO FOUNDATIONS = 50MM  
LAPS = 45Ø  
(Ø=BAR DIAMETER)  
CONCRETE MIX = 1:2:3



- RC NOTE
- ALL CONCRETE ELEMENT DESIGN CONFORMS TO BS8110
  - ALL CONCRETE MINIMUM COMPRESSIVE STRENGTH TO BE 25N/mm<sup>2</sup>
  - CONCRETE MIX RATION 1:2:3
  - MAIN REINFORCEMENT STEEL TO BE HIGH STRENGTH DEFORMED BARS
  - RIVER SAND & GRANITE TO BE USED AS AGGREGATES
  - USE WATER FREE OF SALT & ANY OTHER IMPURITIES
  - ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION WHEN CONCRETING BY USING SPACERS
  - LAPS AS GIVEN BELOW UNLESS NOTED OTHERWISE:  
BENDS = 45Ø  
END SUPPORT = 12Ø
  - COVER TO REINFORCEMENTS AS GIVEN BELOW UNLESS NOTED OTHERWISE:  
FOOTING = 50mm  
TIE BEAMS = 35mm  
FLOOR BEAMS = 35mm (TOP/BOT), 35mm (SIDES)  
ROOF BEAMS = 35mm (TOP/BOT), 35mm (SIDES)  
COLUMN = 35mm  
SLAB = 35mm (TOP/BOT)
  - COVER to reinforcements as given below unless noted otherwise
  - SPACE BARS OF 25mm TO BE PLACED BETWEEN LAYERS OF REINFORCEMENT.
  - SPACE BARS SHOULD NOT EXCEED MORE THAN 30mm.

MID-SPAN  
LENGTH = 0.80 x SPAN

NOTE  
APPLY TWO LAYERS OF DAMP PROOFING AGENT TO ALL SURFACES OF CONCRETE THAT COMES BELOW NATURAL GROUND LEVEL.



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU MALE

LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

ISLAND MAP  
NOT TO SCALE

|            |               |
|------------|---------------|
| DRAWN BY   | ISMAIL SHIYAZ |
| CHECKED BY | ALI ZAMEER    |
| DATE:      | MARCH 2026    |
| PAGE NO:   |               |
| SCALE:     | AS GIVEN      |

S07



ROAD DEVELOPMENT  
CORPORATION

ORCHID MAGU  
MALE

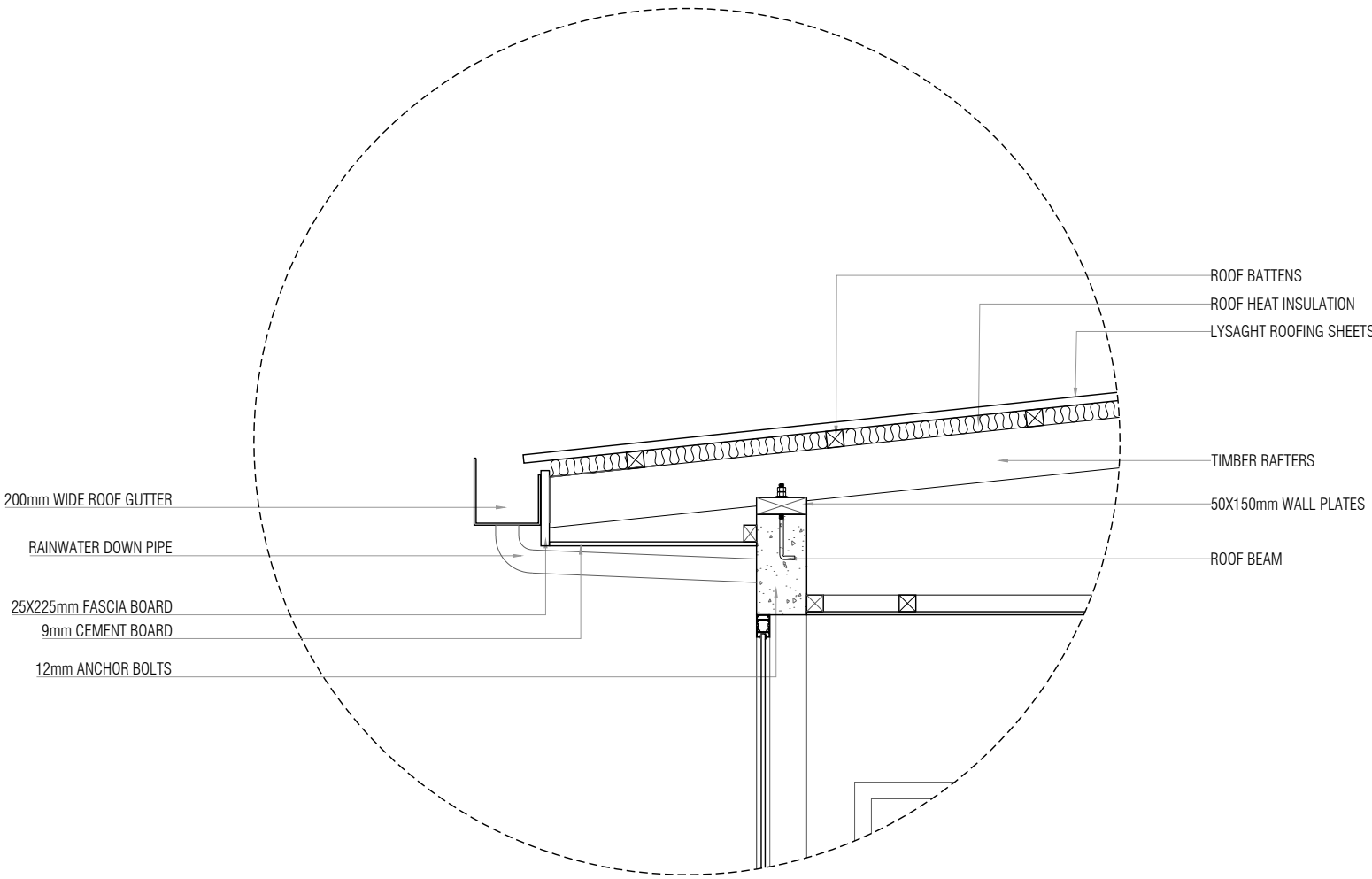
LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

ISLAND MAP  
NOT TO SCALE

|            |               |
|------------|---------------|
| DRAWN BY   | ISMAIL SHIYAZ |
| CHECKED BY | ALI ZAMEER    |
| DATE:      | MARCH 2026    |
| PAGE NO:   |               |
| SCALE:     | AS GIVEN      |
|            | S08           |



S08 1:20

STRUCTURAL DETAILS



COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU MALE'

LEGENDS:

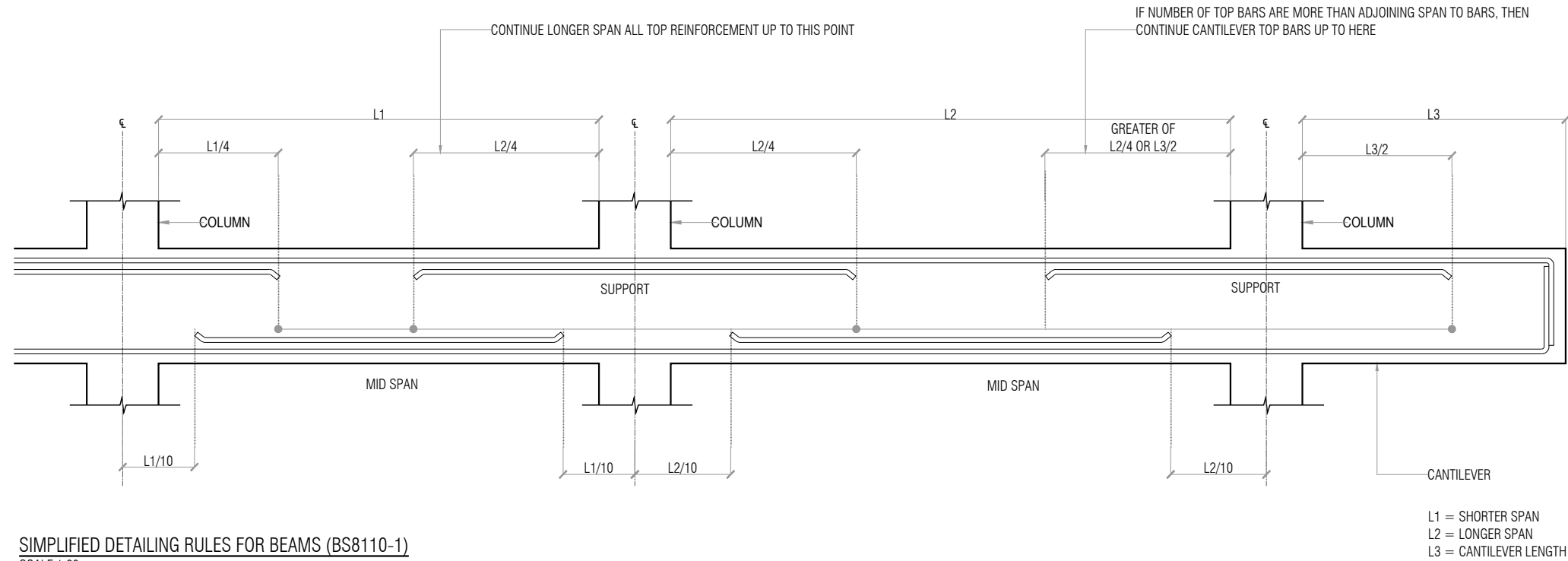
PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

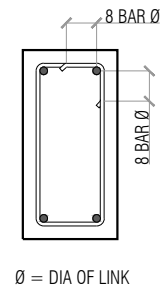
ISLAND MAP  
NOT TO SCALE

|            |               |
|------------|---------------|
| DRAWN BY   | ISMAIL SHIYAZ |
| CHECKED BY | ALI ZAMEER    |
| DATE:      | MARCH 2026    |
| PAGE NO:   |               |
| SCALE:     | AS GIVEN      |

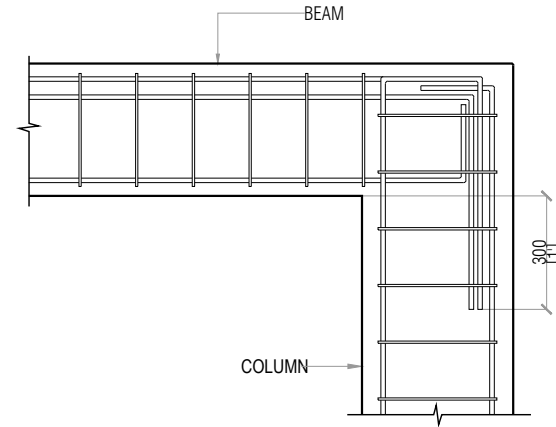
S09



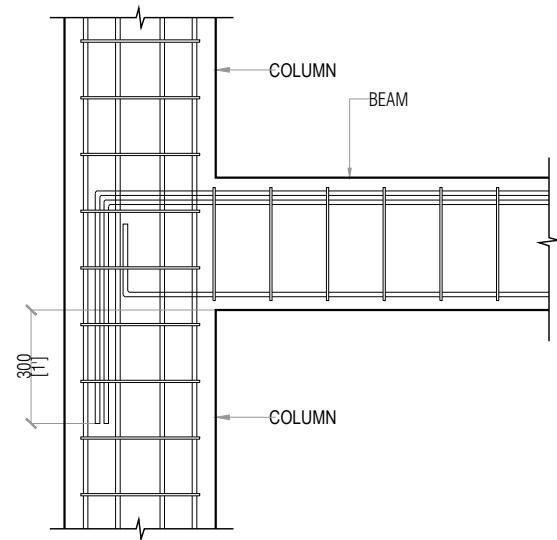
SIMPLIFIED DETAILING RULES FOR BEAMS (BS8110-1)  
SCALE 1:20



SHEAR LINKS ANCHORAGE DETAIL  
SCALE 1:20



END COLUMN TO BEAM CONNECTION  
SCALE 1:20



BEAM TO COLUMN CONNECTION  
SCALE 1:20

S09

1:20

STRUCTURAL DETAILS

0.00

500

1000

COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED



ROAD DEVELOPMENT CORPORATION

ORCHID MAGU  
MALE

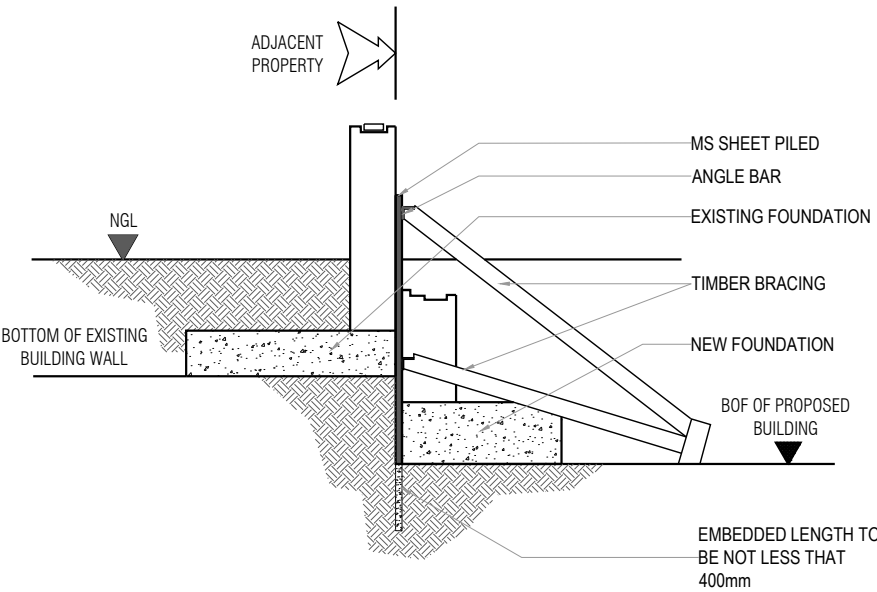
LEGENDS:

PROJECT:  
VILLIMALE HOSPITAL ER

DRAWING TITLE:  
DETAILED DESIGN

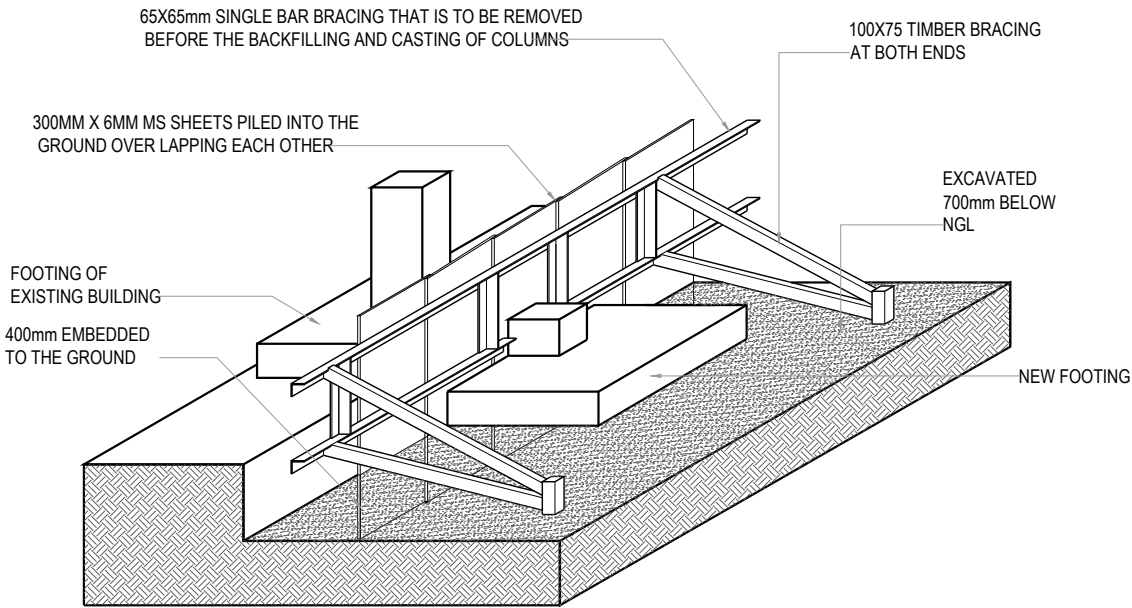
ISLAND MAP  
NOT TO SCALE

|            |               |
|------------|---------------|
| DRAWN BY   | ISMAIL SHIYAZ |
| CHECKED BY | ALI ZAMEER    |
| DATE:      | MARCH 2026    |
| PAGE NO:   |               |
| SCALE:     | AS GIVEN      |
| S10        |               |



WHERE FOOTINGS CONCIDE OR FALL ON THE SAME GRID

EXCAVATION ALONG THE ADJACENT BUILDINGS SHALL BE DONE IN PARTS SO AS TO PREVENT LOOSENING OF SOIL FROM THE BOTTOM OF EXISTING FOUNDATIONS. NO PARTIAL EXCAVATION SHALL EXCEED A WIDTH OF 0.6M AT A TIME & MASONRY RETAINING WALL MUST BE COMPLETED IMMEDIATELY AFTER THE EXCAVATION. ALLOW AT LEAST 24HR INTERVALS BETWEEN EACH EXCAVATION.



SHORING DETAIL

S10 1:20 FOUNDATION PROTECTION METHOD



COPYRIGHT: THE CONCEPT & DESIGNS IN THESE DRAWINGS ARE PROPERTIES OF RDC. UNAUTHORIZED USE OF ANY KIND OR COPY OF THESE DRAWINGS ARE STRICTLY PROHIBITED