

150 ϕ HEAVY DUTY uPCV PERFORATED PIPE LAID TO FALL (1:100)

600

SINGLE SIZED AGGREGATES
DRAIN (MAX 50:1)

TYPICAL FRENCH DRAIN SECTION

SCALE 1:30

DRAIN TO FALL (1:150)

50x6 MS@ 75mm C/C GRATED DRAIN WITH
50x50x4 RSA EMBEDDED FRAME

175

150

600

450

200 400 200

TYPICAL SURFACE DRAIN DETAIL SECTION

SCALE 1:30

GRATED COVER FROM 40x4 MS FLATS
40x40x3 AGLE LINING & Y12 LUGS

TO MECH. DETAILS

200

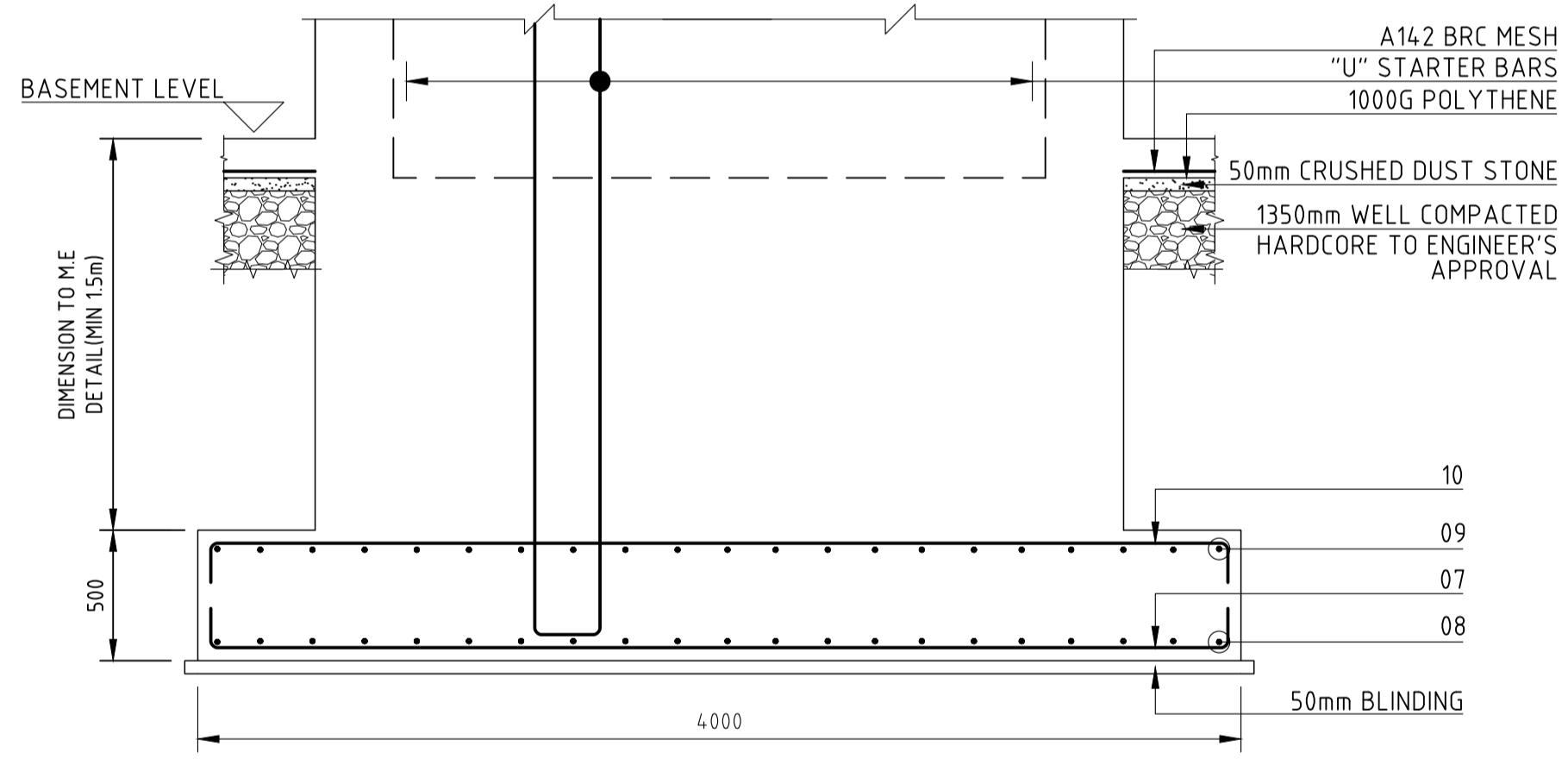
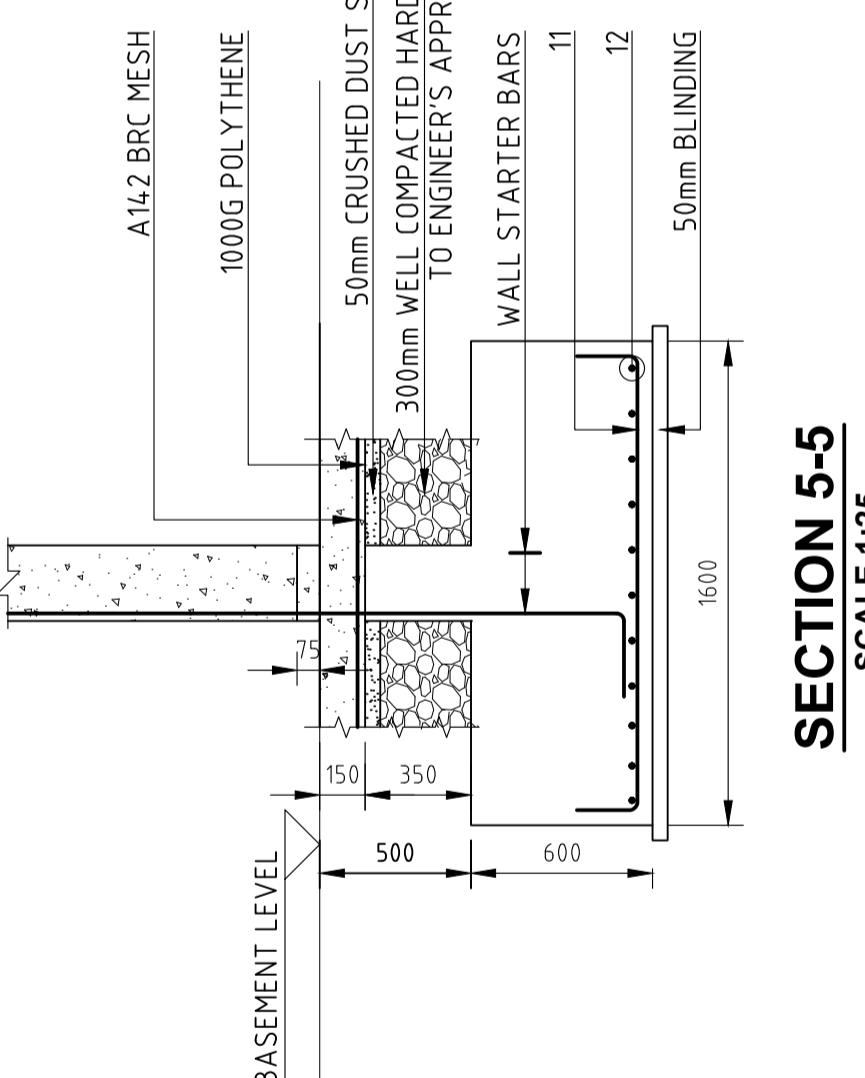
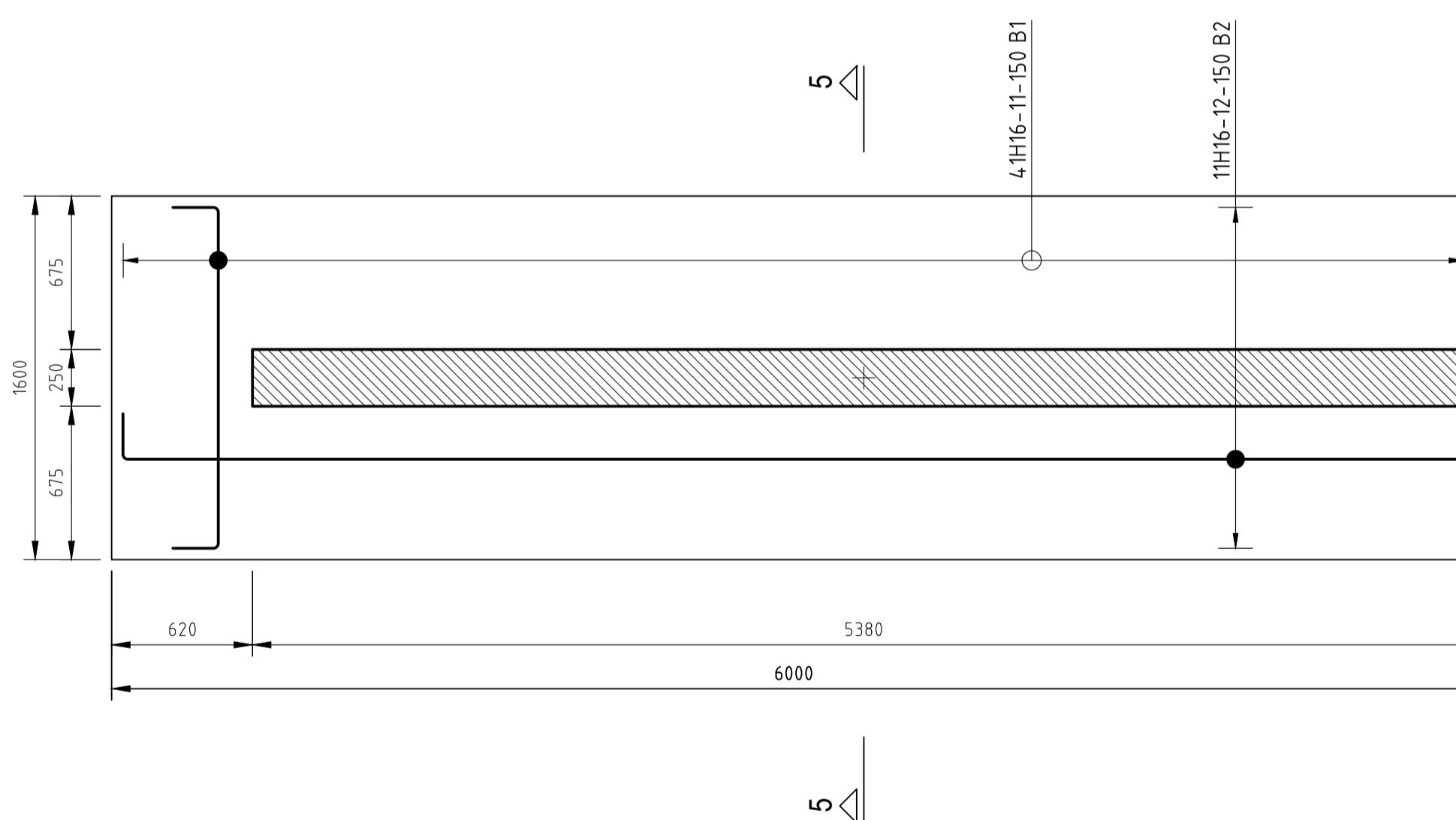
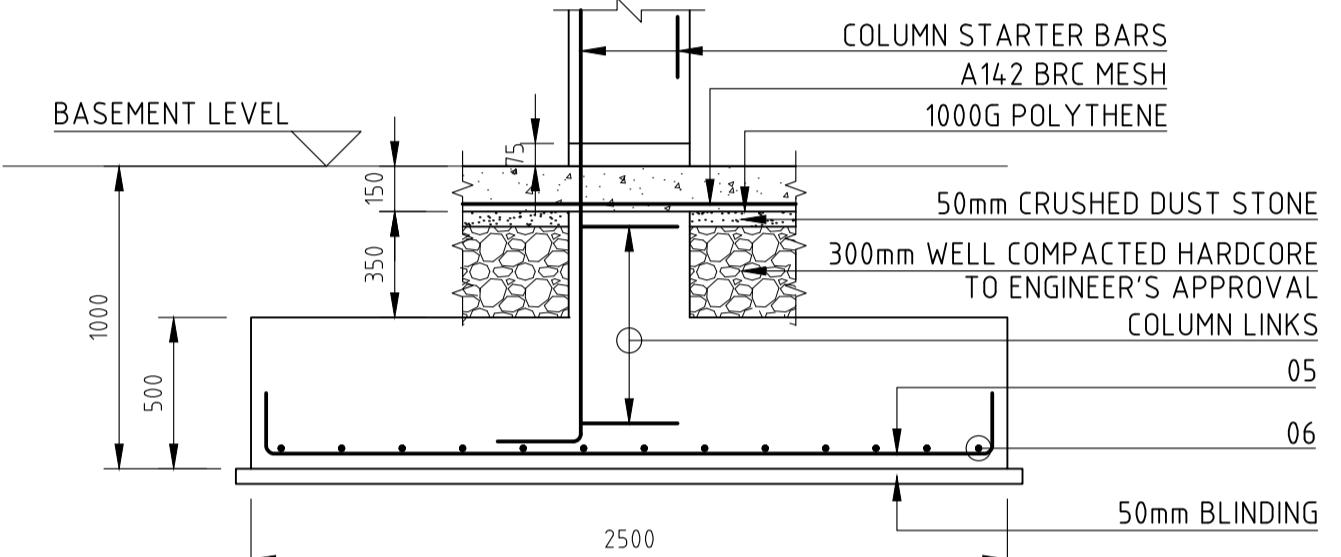
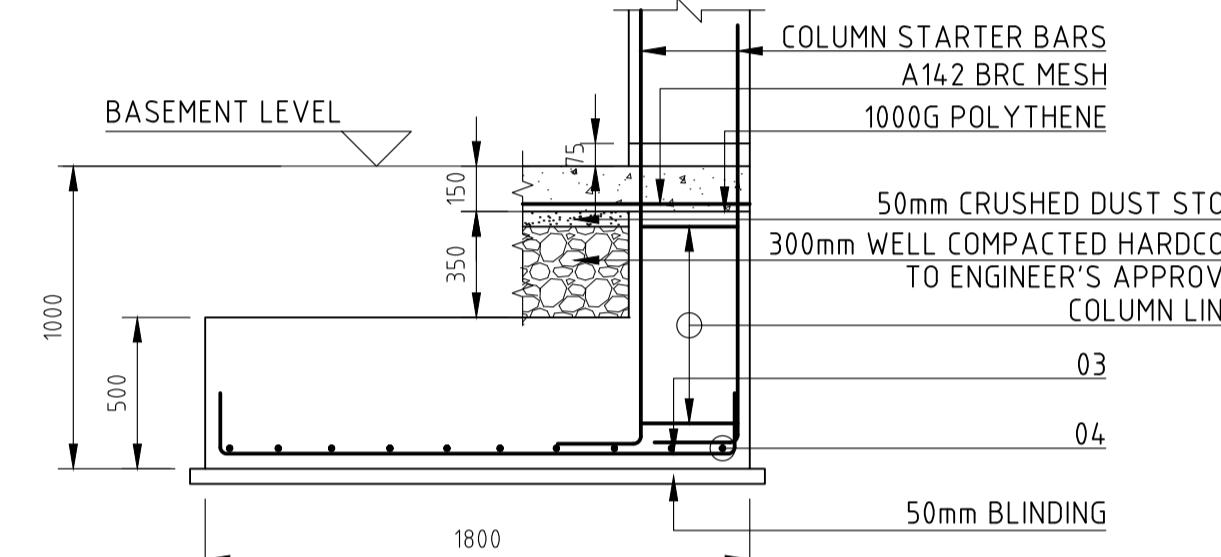
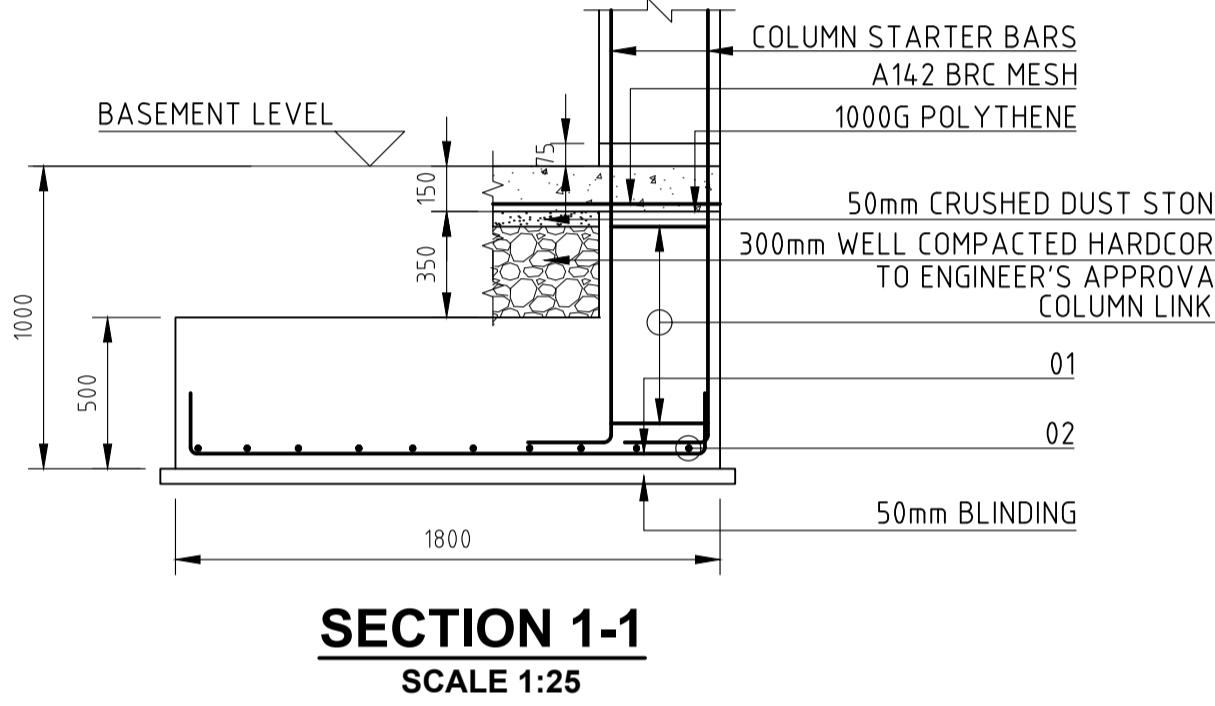
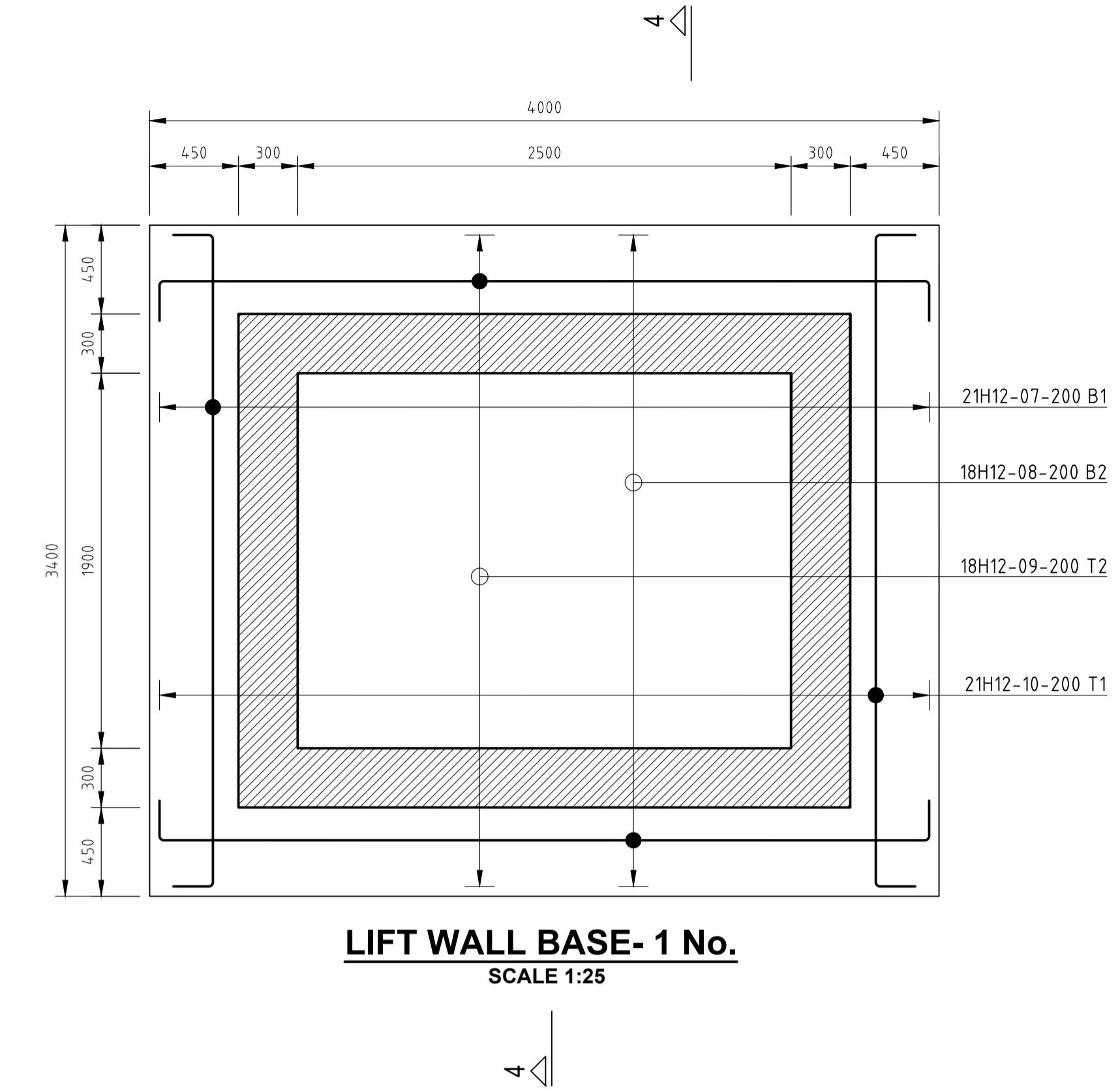
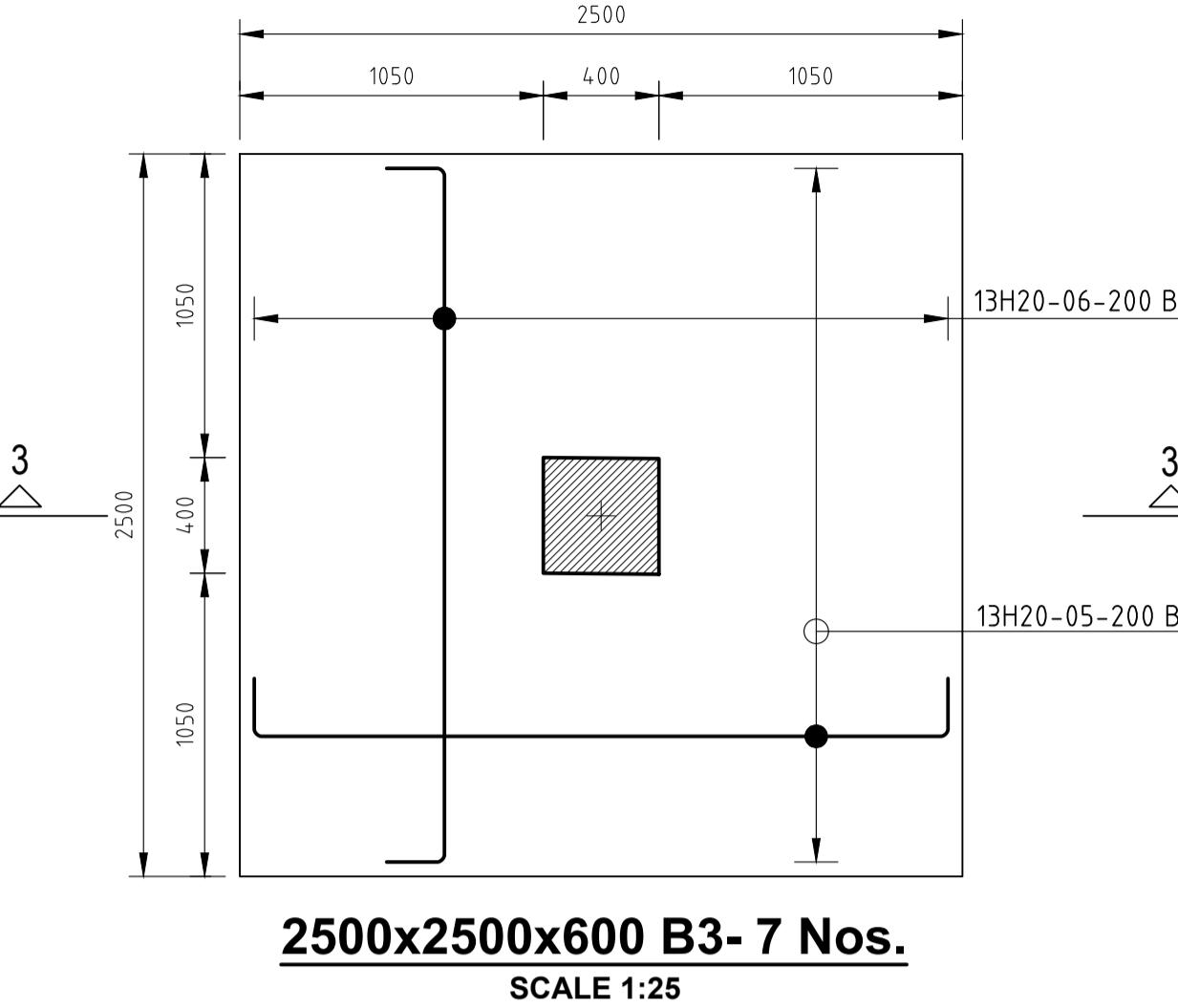
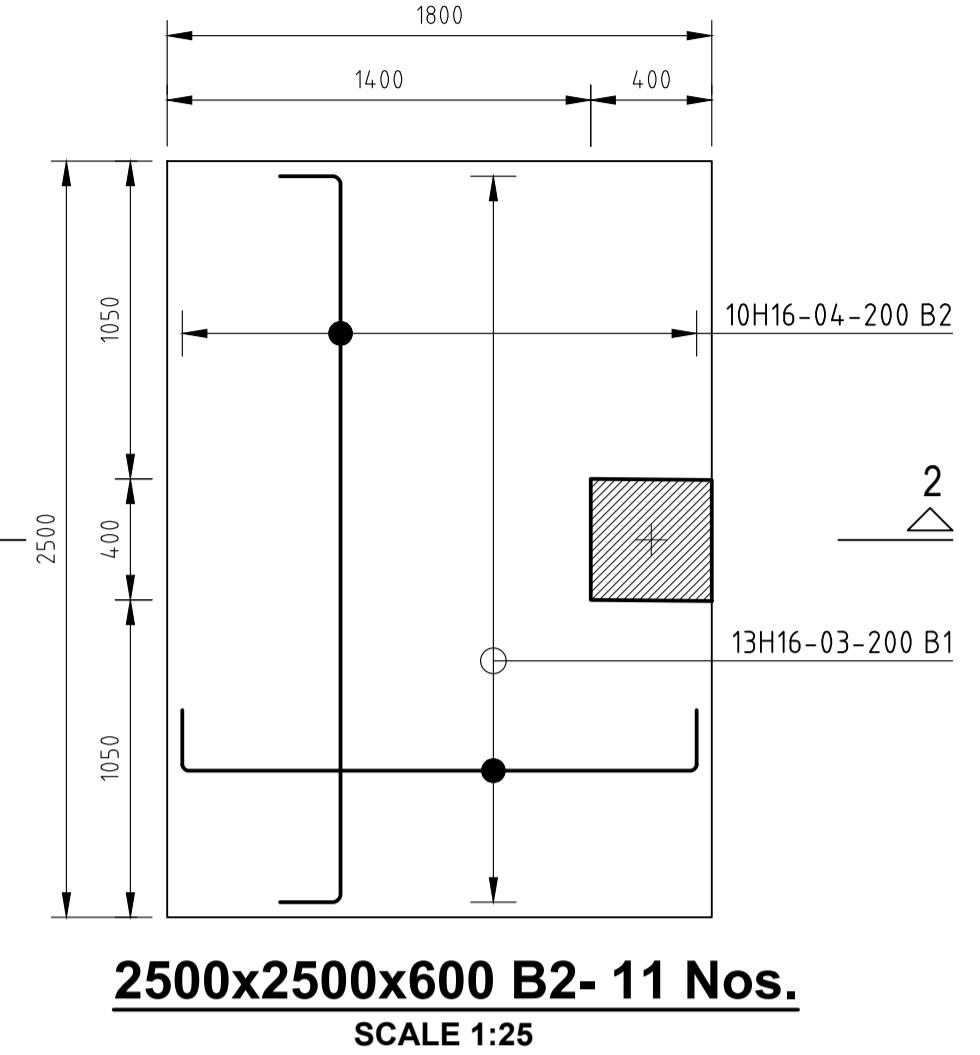
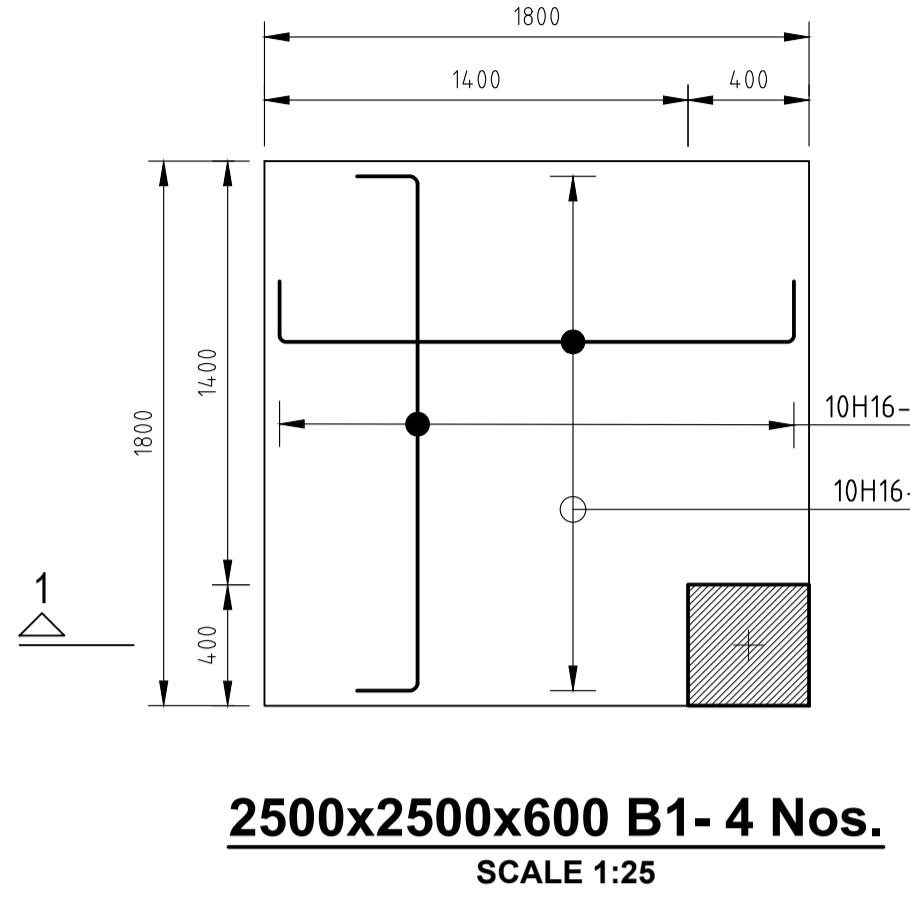
200 TO M.E DETAIL 200

SUMP SECTION

SCALE 1:30

The diagram illustrates a cross-section of a basement slab. At the bottom, a thick layer of '300mm WELL COMPACTED APPROVED HARDCORE FILL TO ENGINEER'S APPROVAL' is shown with a hatched pattern. Above this is a horizontal '50mm BLINDING' layer. A vertical dimension line indicates a height of '150' from the top of the blinding layer to the top of the slab. The top of the slab is covered by a '1000g POLYTHENE SHEETS' layer. A horizontal dimension line spans the width of the slab, labeled 'MESH FABRIC A142'. Arrows point from the labels to their respective parts in the diagram.

<u>NOTES</u>	<p>1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS. 2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM. 3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER. 4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL. 5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK. 6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING. 7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.</p> <p>8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS. 9. MAXIMUM AGGREGATE SIZE IS 20MM. 10. BEARING CAPACITY IS 350kN/m². 11. HIGH TENSILE STEEL REINFORCING BARS "H" OF GRADE 500MPa TO BE USED. 12. HARDCORE TO BE HAND PACKED AND COMPACTED TO ENGINEER'S SATISFACTION. 13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER. 14. THE FOLLOWING ABBREVIATIONS WERE USED: - B - BASE. - C - COLUMN.</p>	<p>PROJECT: STRUCTURAL DESIGN OF A SIX STOREY OFFICE BLOCK</p> <p>CLIENT: ALY AND KHALID DAHYA</p>	<p>FOUNDATION LAYOUT</p> <p>DRAWN BY : MUIRURI CEPHAS NJENGA</p> <p>REG. NO. : F16/136471/2019</p> <p>CHECKED BY : ENG. E. GORO</p> <p>SCALE : 1:30, 1:50</p> <p>05/03/2024</p> <p>DWG NO. : 01/24</p>
--------------	---	--	---



NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. FOUNDATION CONCRETE CLASS IS C25/30.
15. FOUNDATION CONCRETE COVER TO REINFORCEMENT IS 50MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK

CLIENT: ALY AND KHALID
DAHYA

FOUNDATION REINFORCEMENT DETAILS

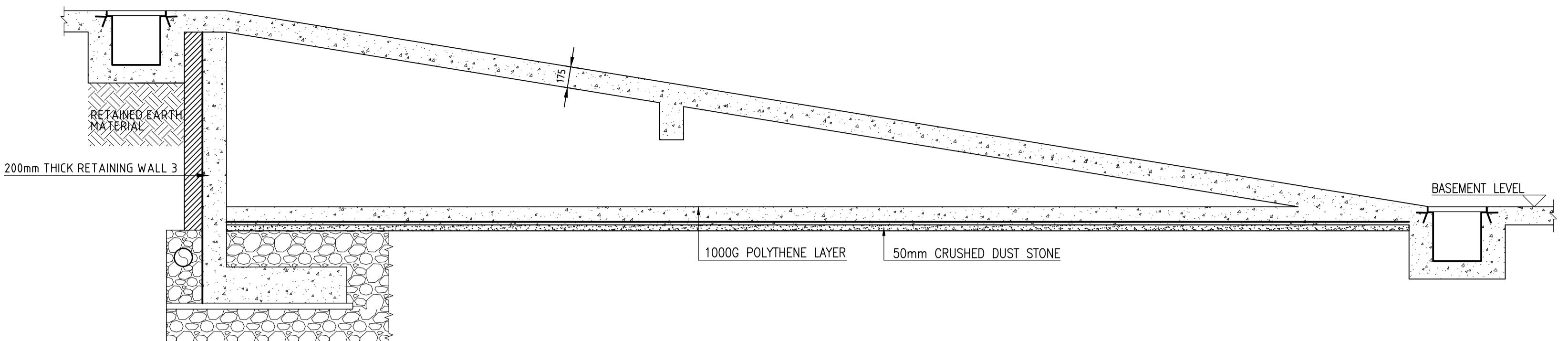
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

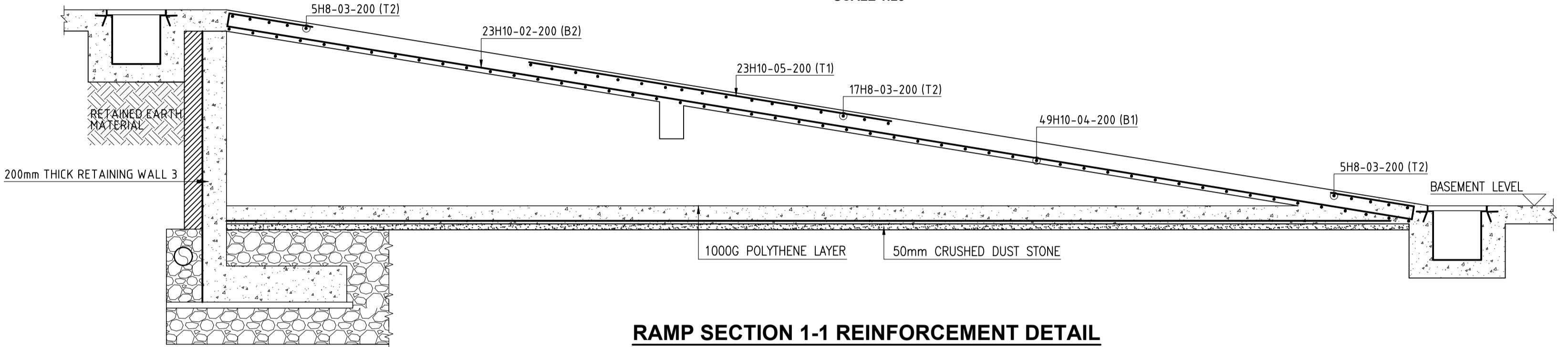
CHECKED BY : ENG. E. GORO **05/03/2024**

SCALE : 1:25

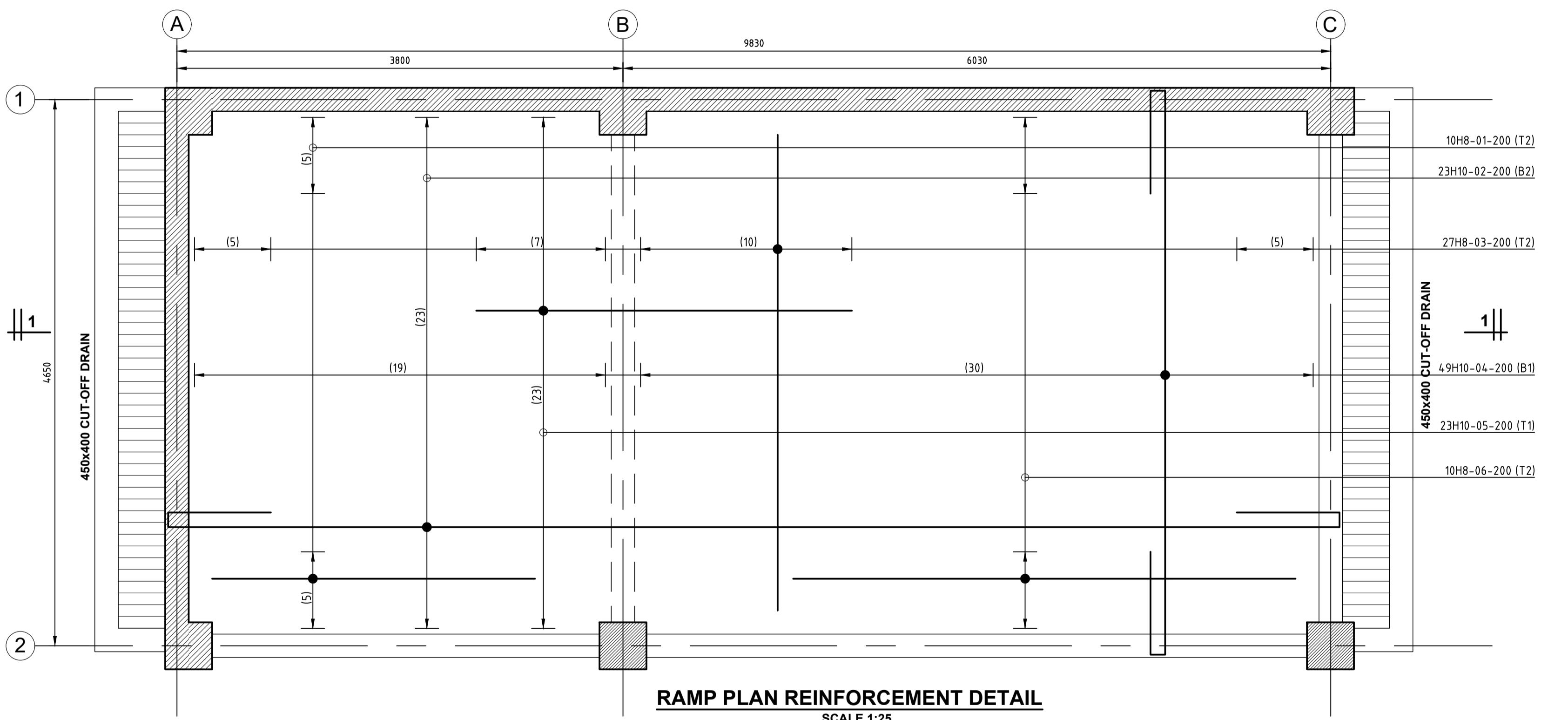
DWG NO. 02/24



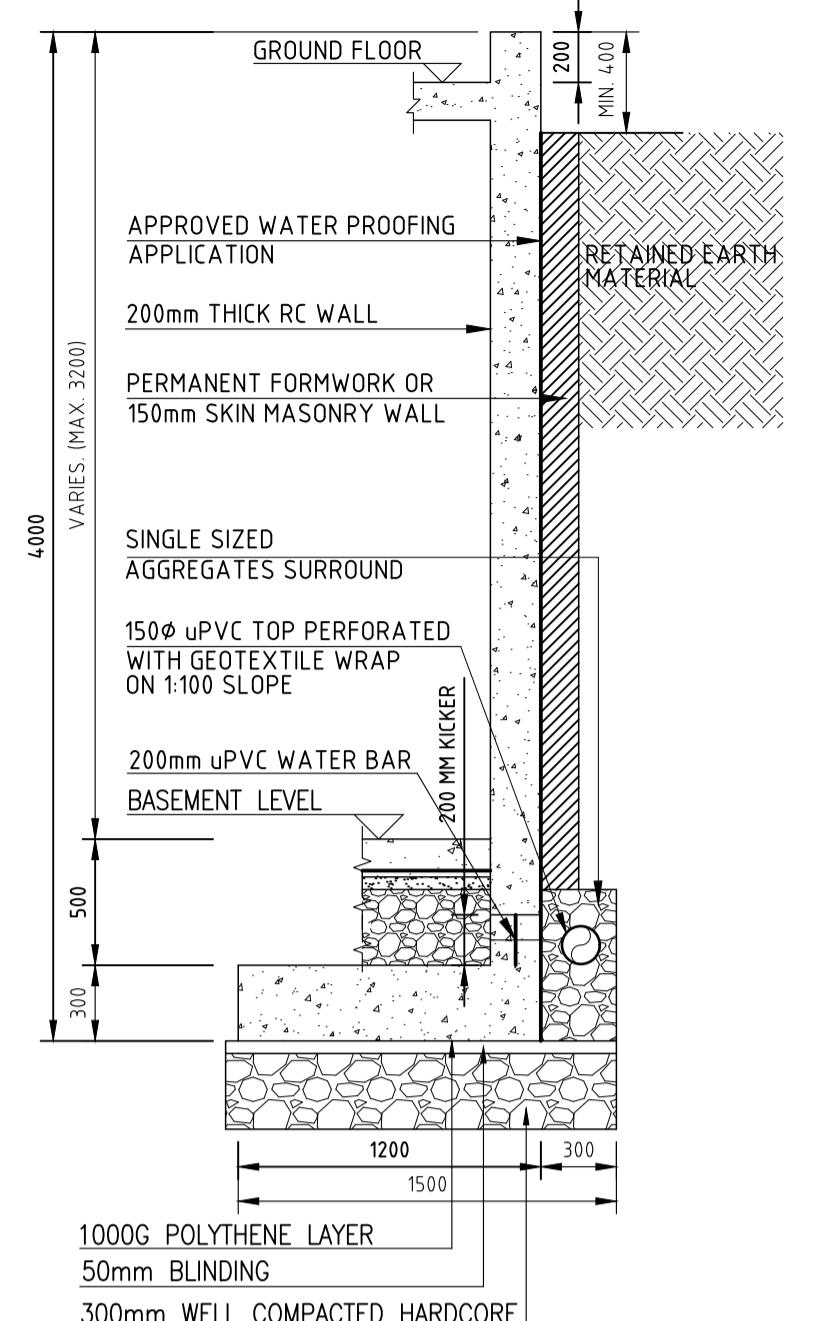
RAMP SECTION LAYOUT
SCALE 1:25



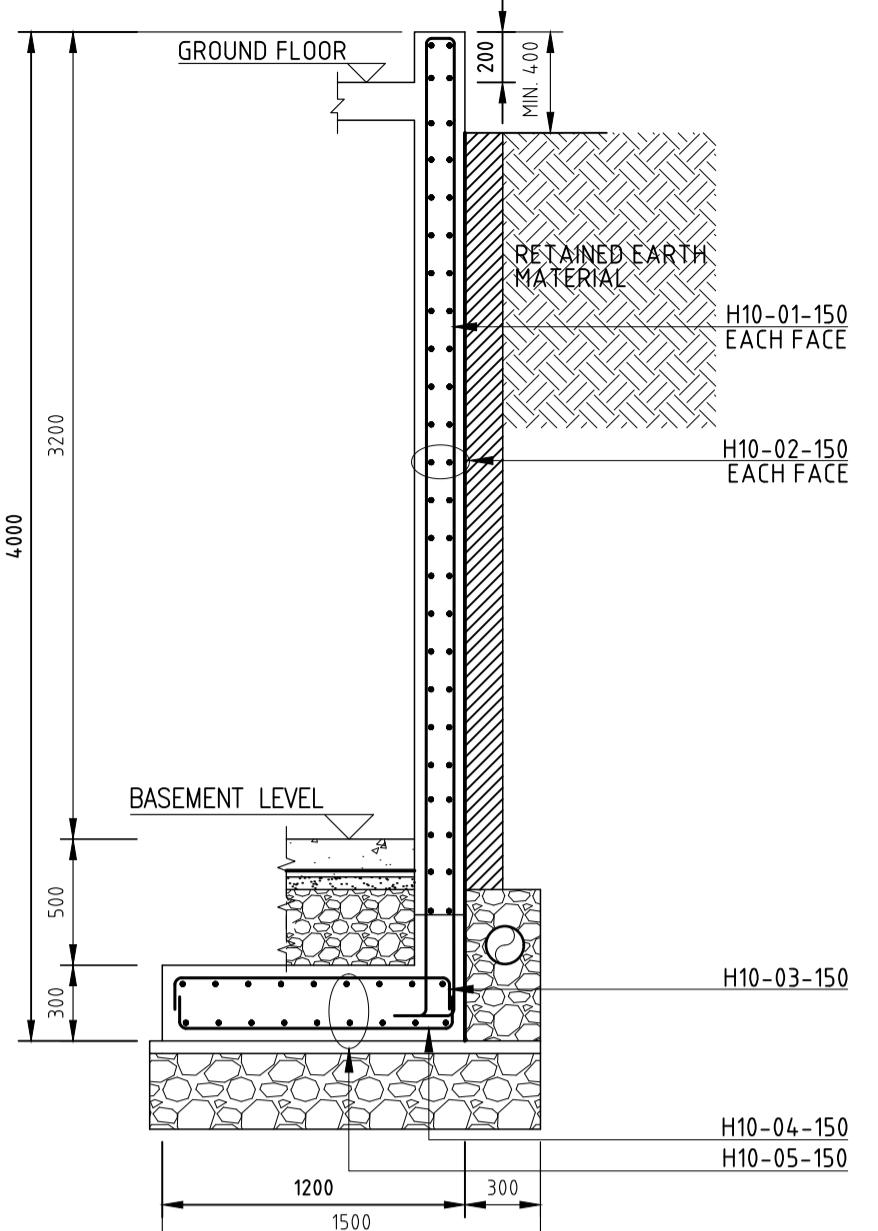
RAMP SECTION 1-1 REINFORCEMENT DETAIL
SCALE 1:25



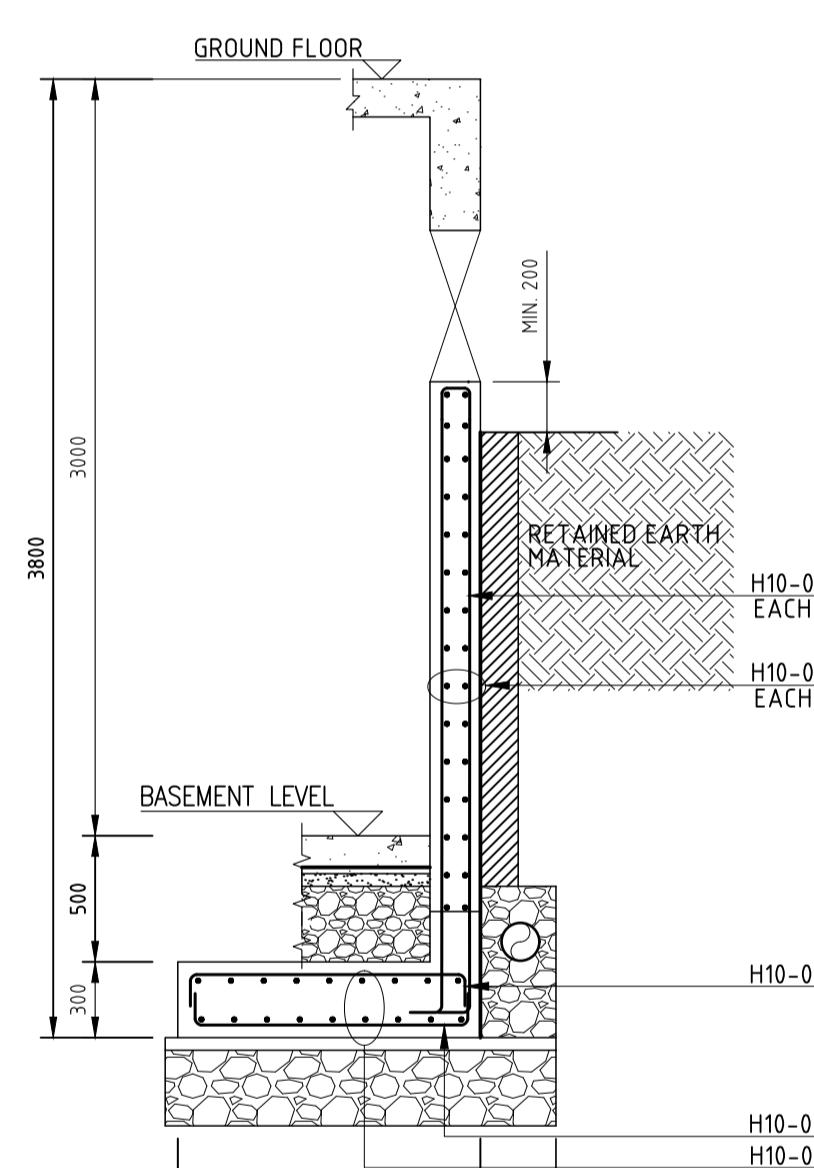
RAMP PLAN REINFORCEMENT DETAIL
SCALE 1:25



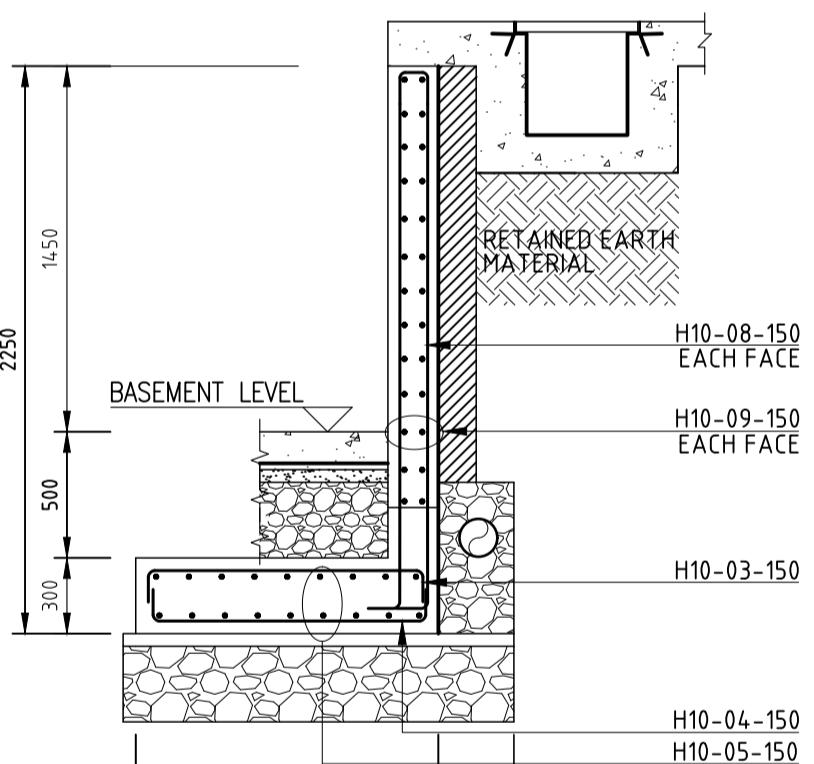
TYPICAL RETAINING WALL SECTION
SCALE 1:25



RETAINING WALL 1 REINFORCEMENT SECTION
SCALE 1:25



RETAINING WALL 2 REINFORCEMENT SECTION
SCALE 1:25



RETAINING WALL 3 REINFORCEMENT SECTION
SCALE 1:25

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. RAMP AND RETAINING WALL CONCRETE CLASS IS C25/30.
15. CONCRETE COVER IS: -RAMP- 25MM -RETAINING WALL- 50MM
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK

CLIENT: ALY AND KHALID
DAHYA

RAMP AND RETAINING WALL LAYOUT

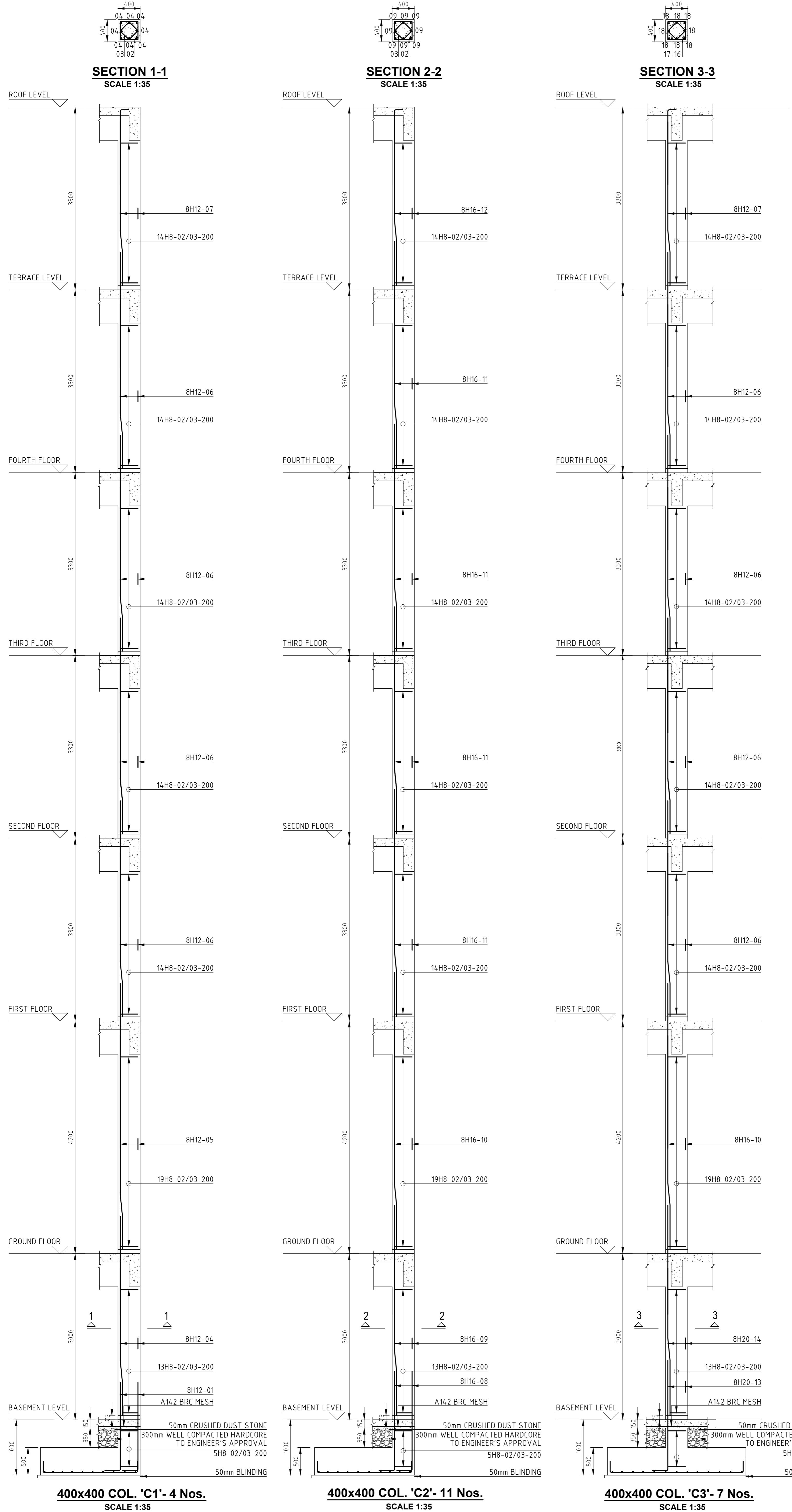
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

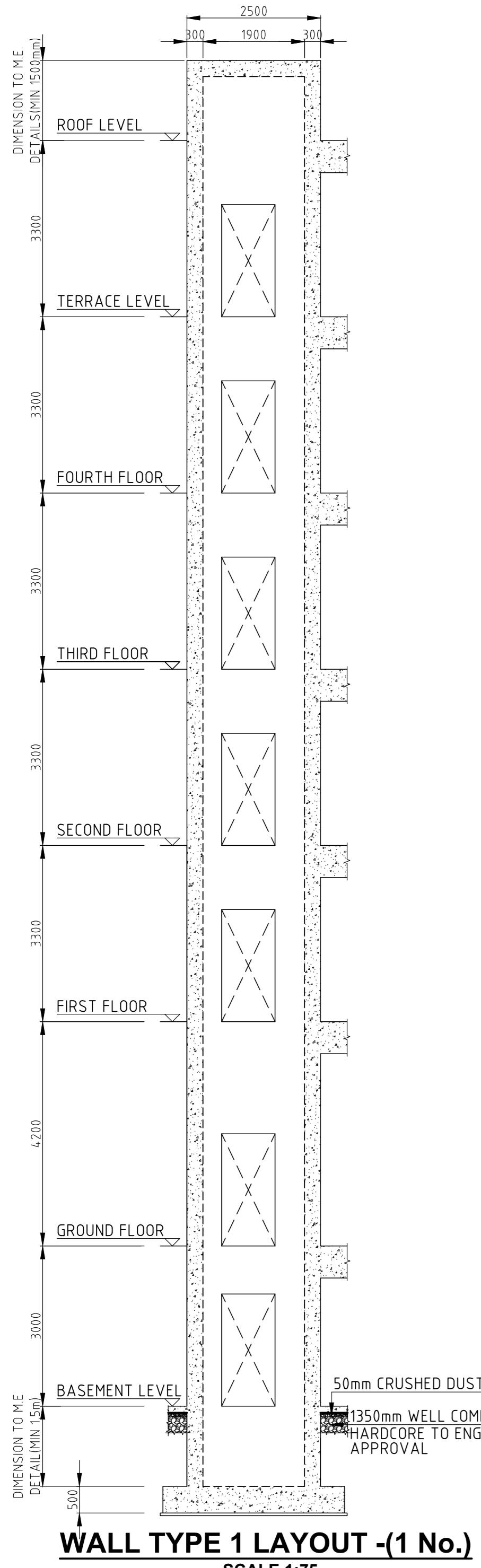
CHECKED BY : ENG. E. GORO 06/03/2024

SCALE : 1:30

DWG NO. 03/24



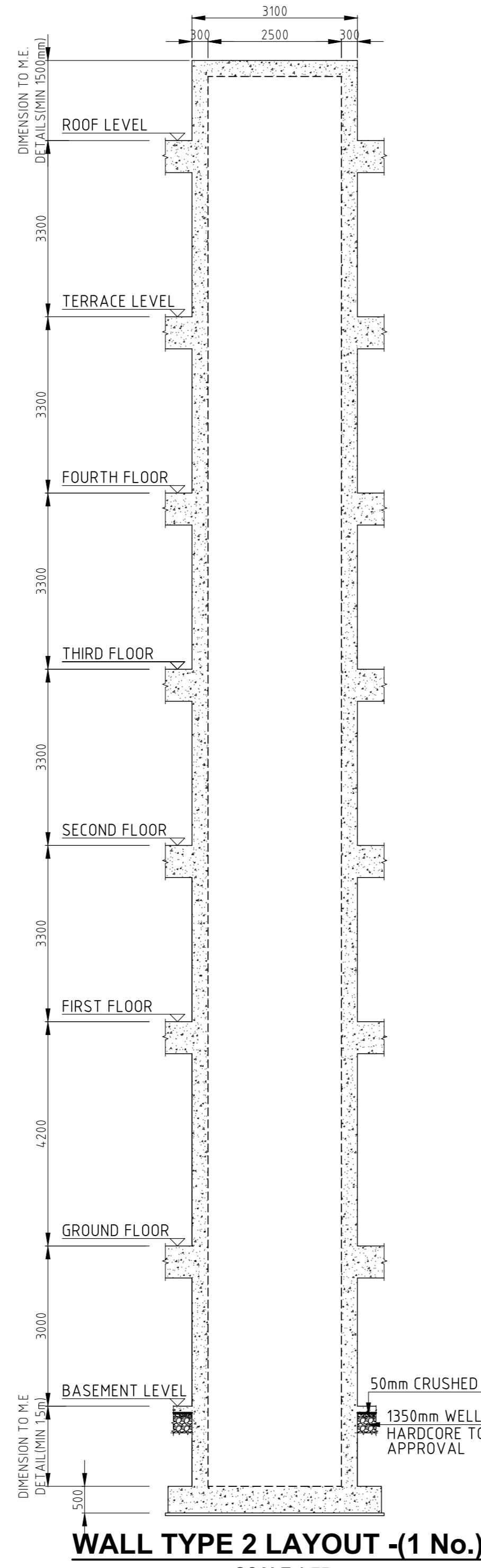
NOTES	PROJECT: OF A SIX STOREY OFFICE BLOCK		STRUCTURAL DESIGN	COLUMN REINFORCEMENT DETAILS
	DRAWN BY : MUIURURI CEPHAS NIJENGA			
	REG. NO. : F16/136471/2019			
	CHECKED BY : ENG. E. GORO		08/03/2024	
	SCALE : 1:35		DWG NO. 05/24	
	CLIENT: ALY AND KHALID DAHYA			



WALL TYPE 1 LAYOUT -(1 No.)

SCALE 1:75

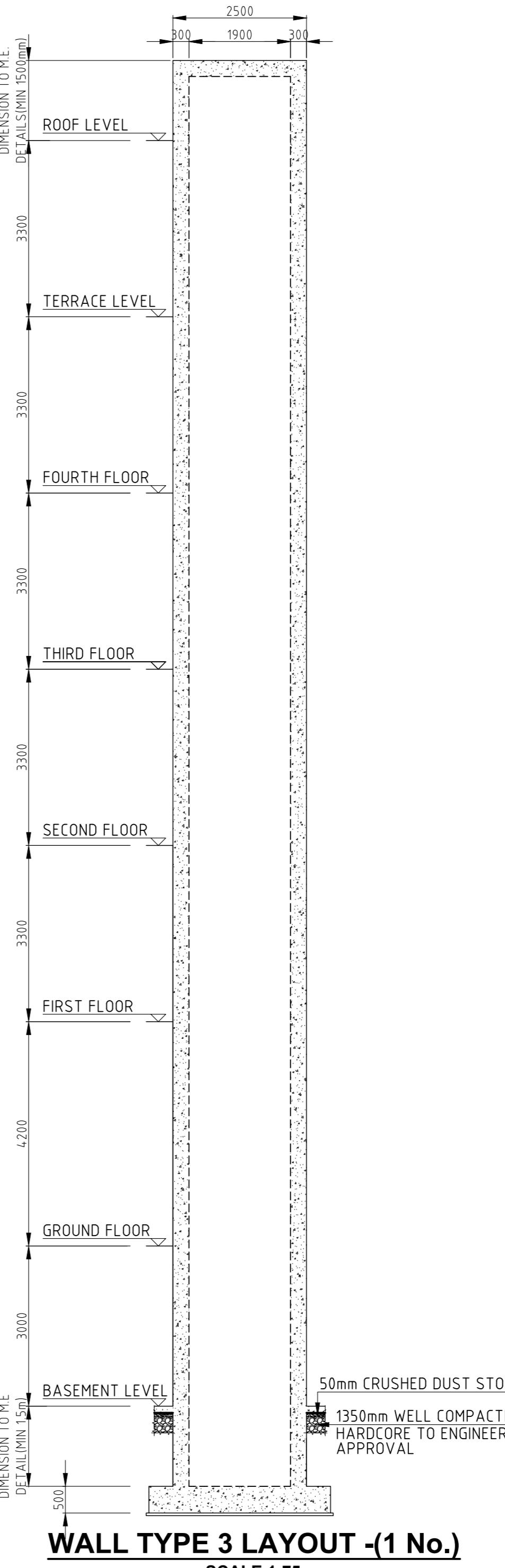
14



WALL TYPE 2 LAYOUT -(1 No.)

SCALE 1:75

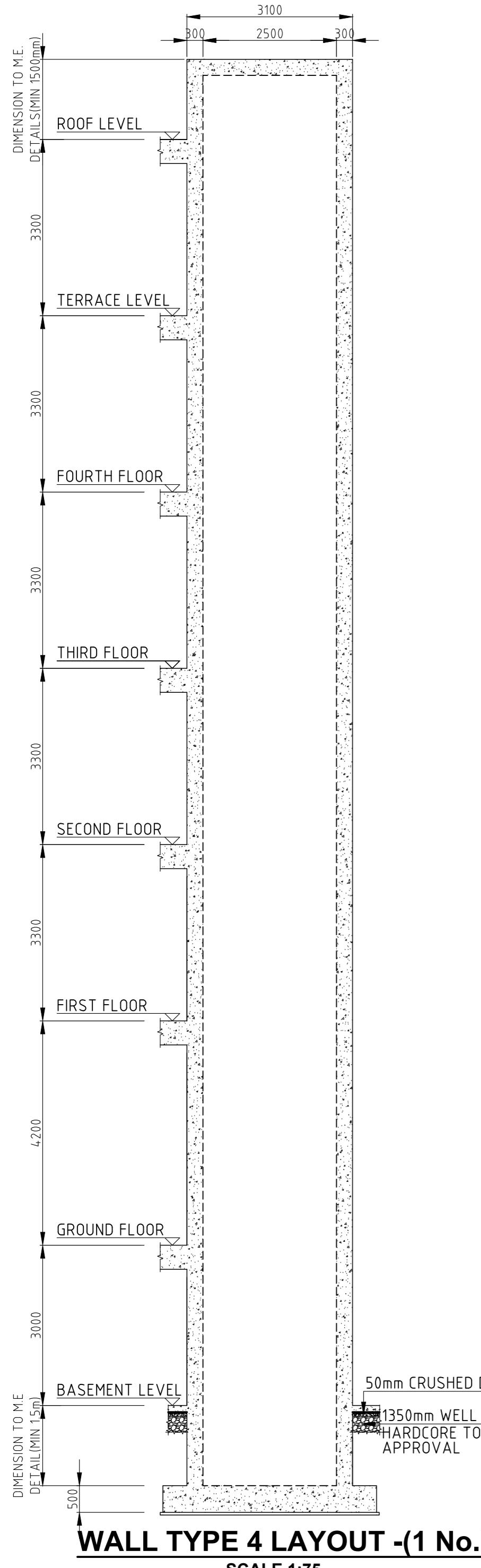
SCALE



WALL TYPE 3 LAYOUT -(1 No.)

SCALE 1:75

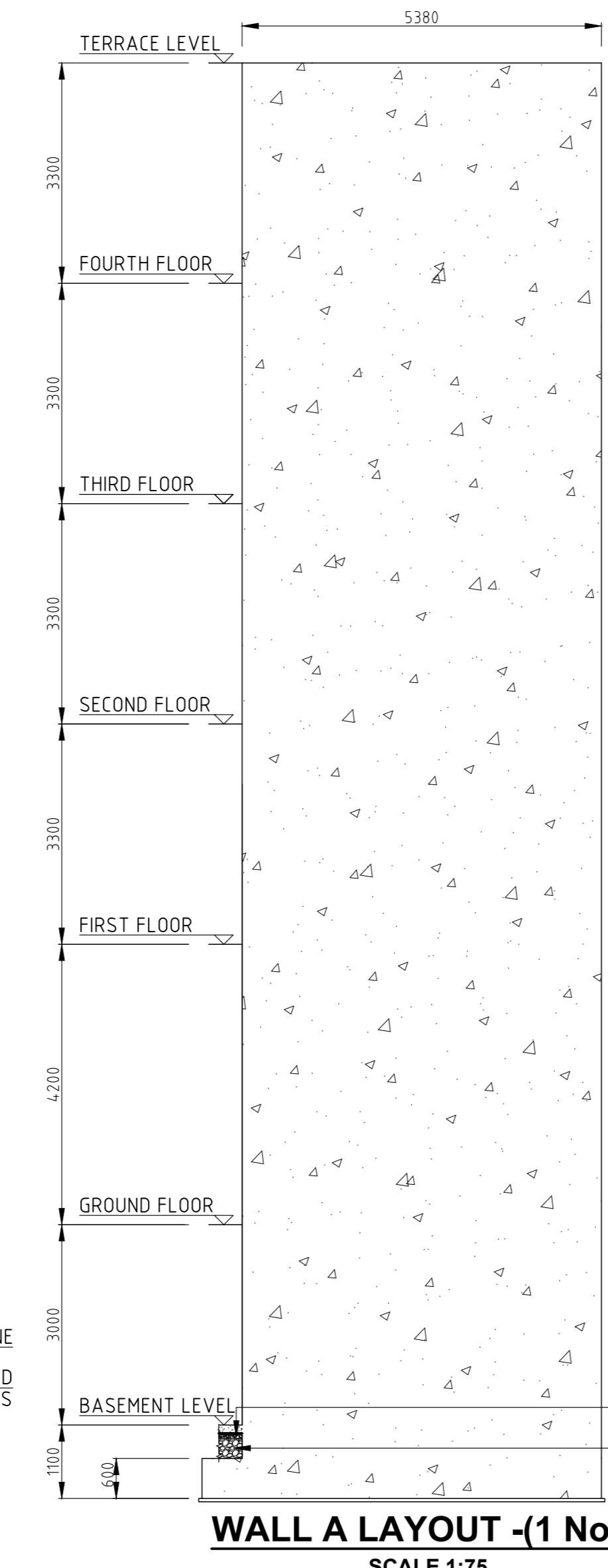
SCALE 1:75



WALL TYPE 4 LAYOUT -(1 No.)

SCALE 1:75

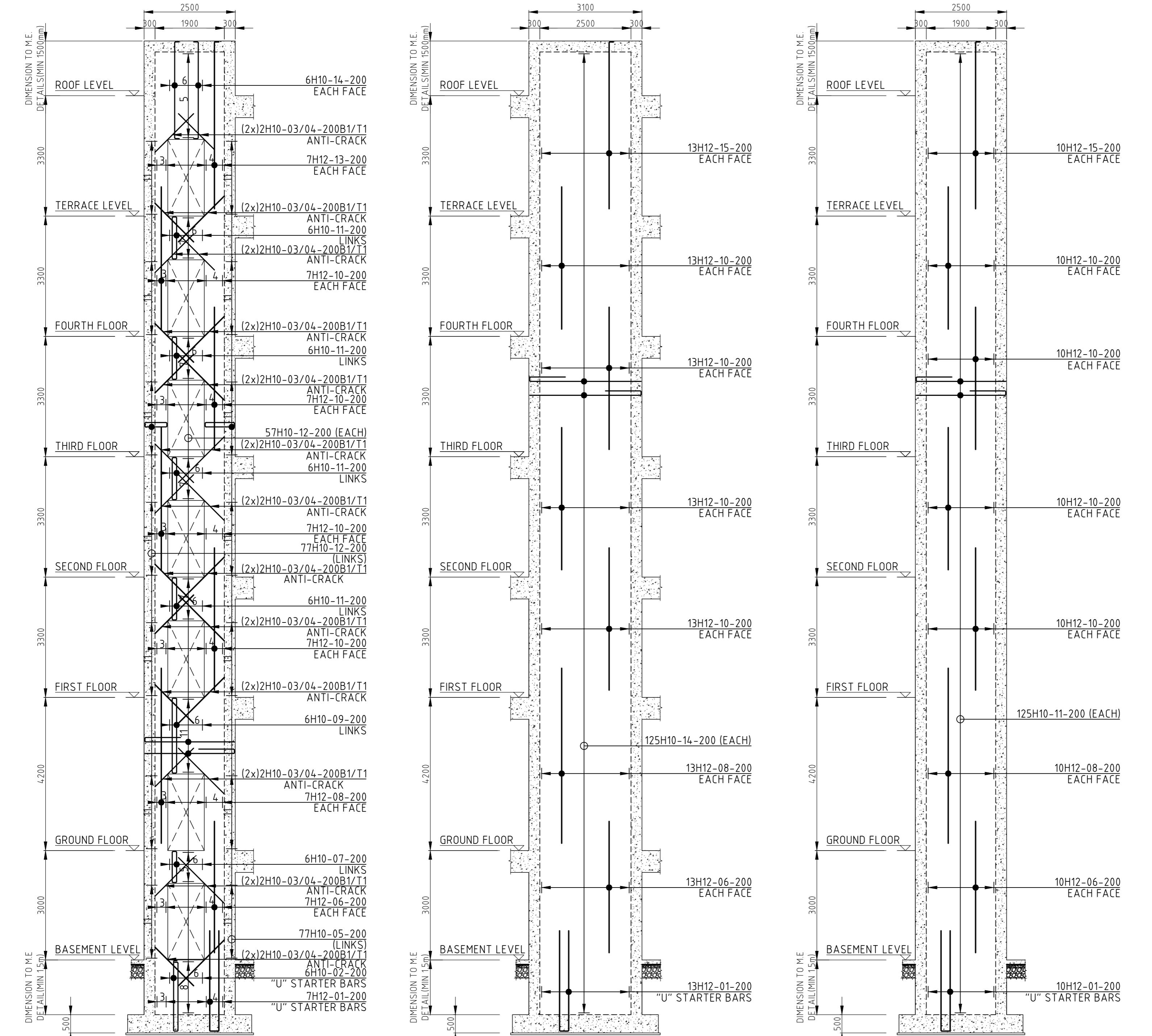
SCALE 1:75



WALL A LAYOUT -(1 No.)

SCALE 1:75

<u>NOTES</u>	STRUCTURAL DESIGN OF A SIX STOREY OFFICE BLOCK	
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.	2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.	3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.	5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.	6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.	8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.	9. MAXIMUM AGGREGATE SIZE IS 20MM.
	10. BEARING CAPACITY IS 350kN/m ² .	11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
	12. HARDCORE TO BE HAND PACKED AND COMPACTED TO ENGINEER'S SATISFACTION.	13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
	14. SHEAR WALL CONCRETE CLASS IS C30/37.	15. SHEAR WALL CONCRETE COVER TO REINFORCEMENT IS 25MM.
	16. THE FOLLOWING ABBREVIATIONS WERE USED: - BRC - BUILDING REGULATIONS COMPLIANCE.	16/03/2024
LIFT WALL LAYOUT	REG. NO.: F16/136471/2019	CHECKED BY : ENG. E. GORO
NOTES	CLIENT: DAHYA	08/03/2024
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.	2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.	3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.	5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.	6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.	8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.	9. MAXIMUM AGGREGATE SIZE IS 20MM.
	10. BEARING CAPACITY IS 350kN/m ² .	11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
	12. HARDCORE TO BE HAND PACKED AND COMPACTED TO ENGINEER'S SATISFACTION.	13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
	14. SHEAR WALL CONCRETE CLASS IS C30/37.	15. SHEAR WALL CONCRETE COVER TO REINFORCEMENT IS 25MM.
	16. THE FOLLOWING ABBREVIATIONS WERE USED: - BRC - BUILDING REGULATIONS COMPLIANCE.	16/03/2024



WALL TYPE 1 REINFORCEMENT -(1 No.)

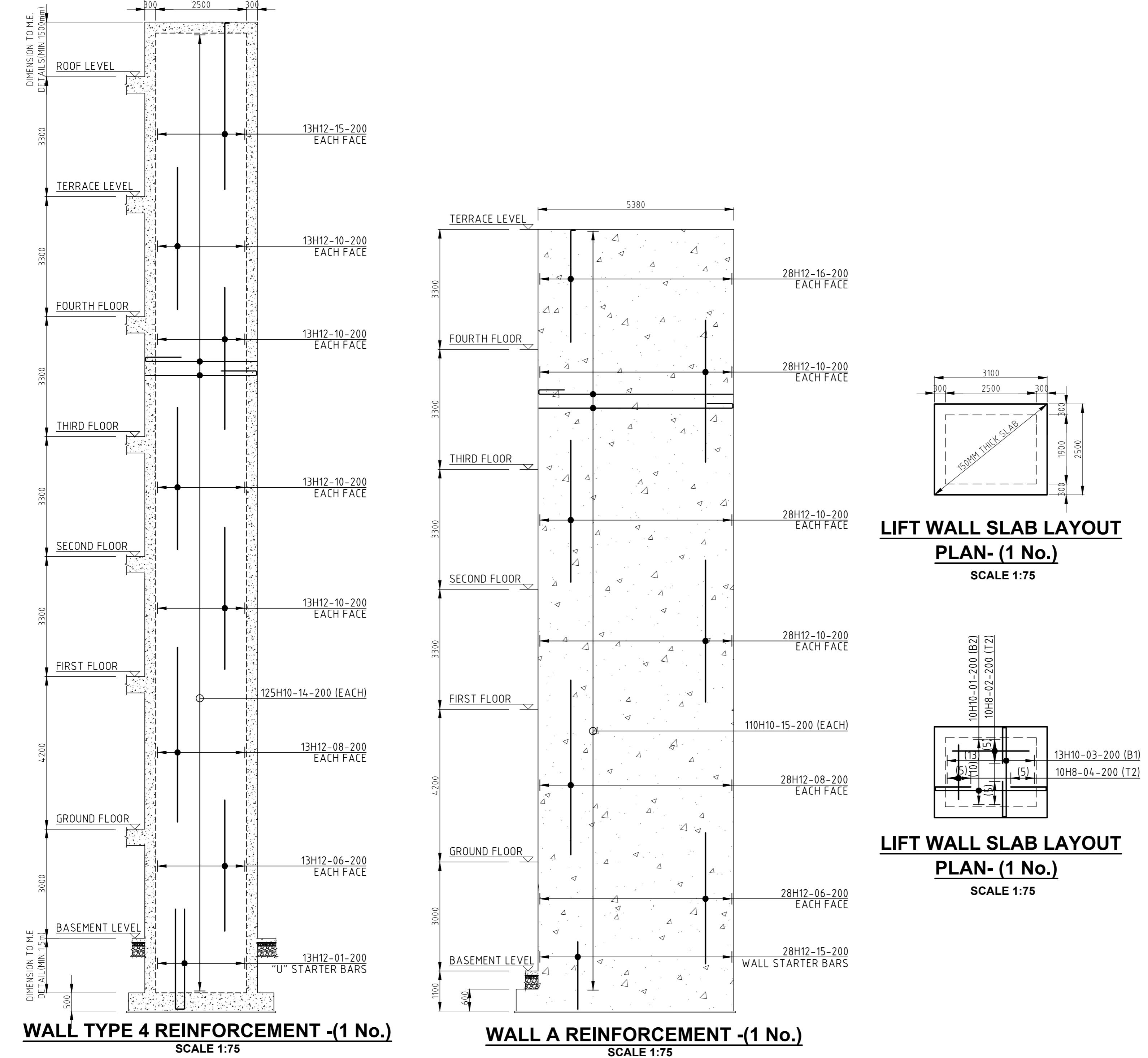
WALL TYPE 2 REINFORCEMENT -(1 No.)

WALL TYPE 3 REINFORCEMENT -(1 No.)

SCALE 1:75

SCALE 1:75

SCALE 1:75



WALL TYPE 4 REINFORCEMENT -(1 No.)

SCALE 1:75

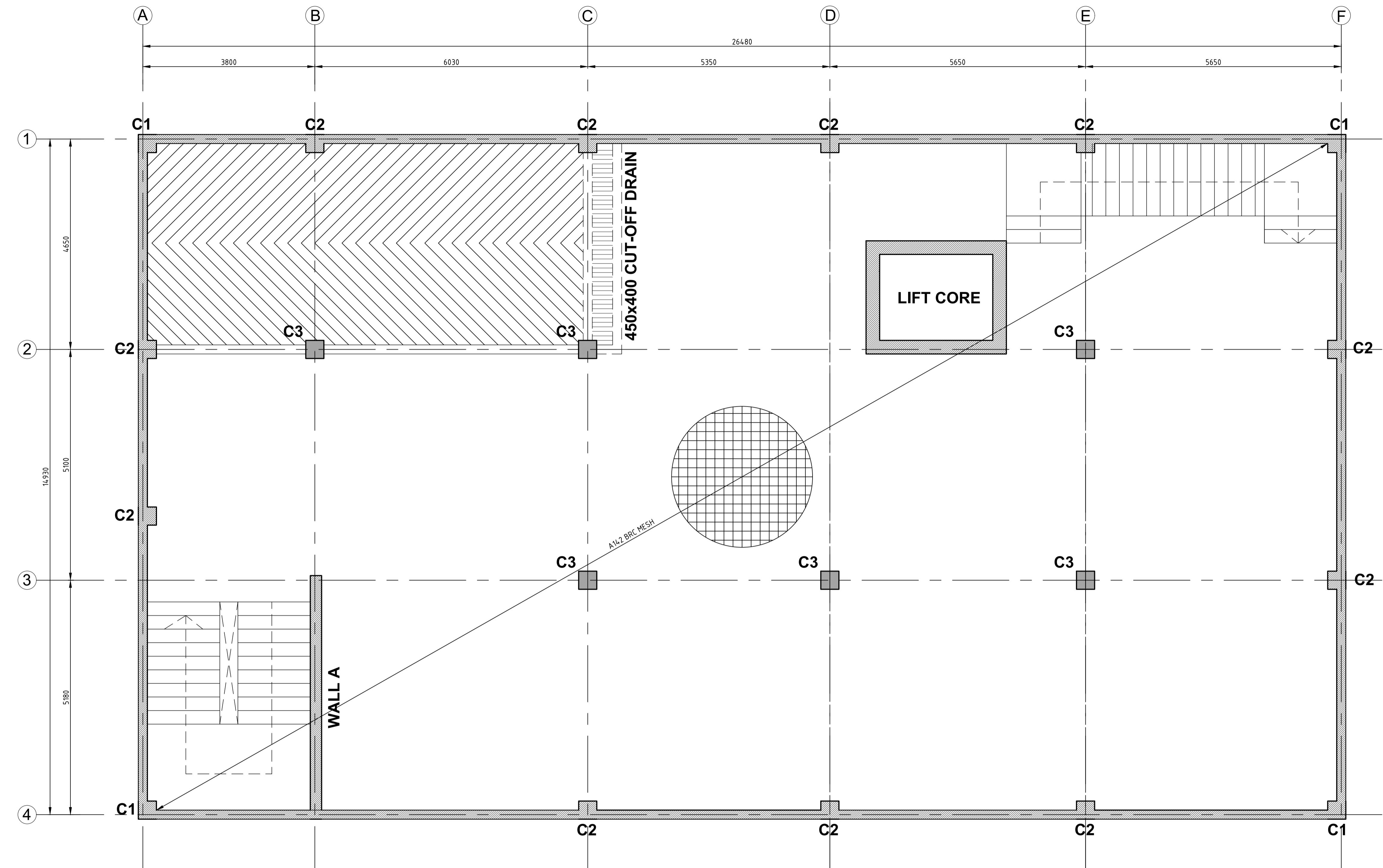
WALL A REINFORCEMENT -(1 No.)

SCALE 1:75

LIFT WALL REINFORCEMENT DETAILS	DRAWN BY : MUIURURI CEPHAS NJENGA	REG. NO. : F16/136471/2019
	CHECKED BY : ENG. E. GORO	DWG NO. 07/24

STRUCTURAL DESIGN	PROJECT: OF A SIX STOREY OFFICE BLOCK	CLIENT: ALY AND KHALID DAHYA
-------------------	---------------------------------------	------------------------------

NOTES	<p>1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.</p> <p>2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.</p> <p>3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.</p> <p>4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.</p> <p>5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.</p> <p>6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.</p> <p>7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.</p> <p>8. DAMP PROOF COURSE (OPC) TO BE PLACED UNDER ALL WALLS.</p> <p>9. MAXIMUM AGGREGATE SIZE IS 20MM.</p> <p>10. BEARING CAPACITY IS 350KN/m².</p> <p>11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.</p> <p>12. HARDORE TO BE HAND PACKED AND COMPACTED TO ENGINEER'S SATISFACTION.</p> <p>13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.</p> <p>14. SHEAR WALL CONCRETE CLASS IS C30/37.</p> <p>15. SHEAR WALL CONCRETE COVER TO REINFORCEMENT IS 25MM.</p> <p>16. THE FOLLOWING ABBREVIATIONS WERE USED: - T - TOP. - B - BOTTOM.</p>	
-------	--	--



NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCING BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. SLAB CONCRETE CLASS IS C25/30.
15. SLAB CONCRETE COVER TO REINFORCEMENT IS 25MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- C - COLUMN. - BRC - BUILDING REGULATIONS COMPLIANCE.

PROJECT: STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK

CLIENT: ALY AND KHALID
DAHYA

BASEMENT SLAB LAYOUT

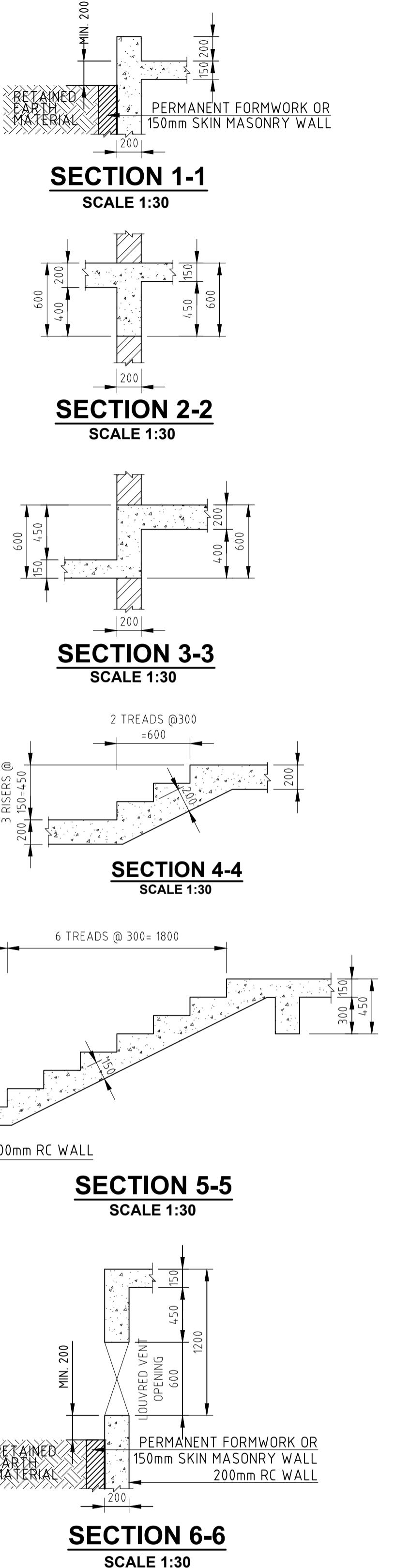
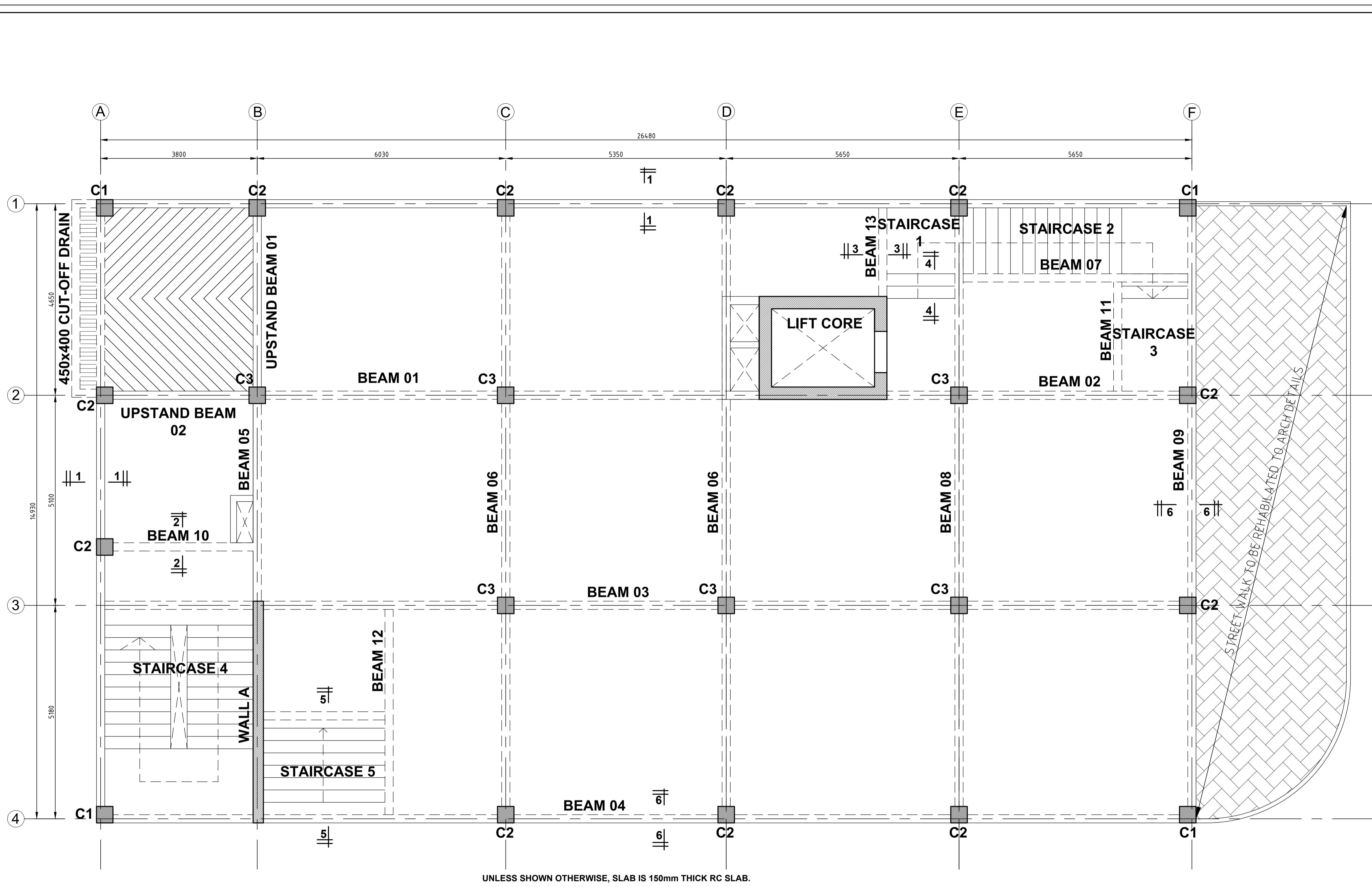
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

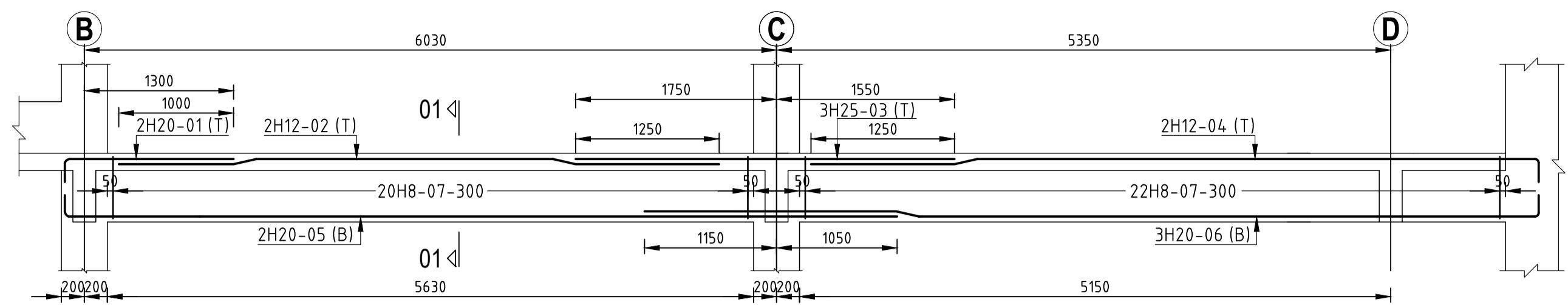
CHECKED BY : ENG. E. GORO **09/03/2024**

SCALE : 1:50

DWG NO. 08/24



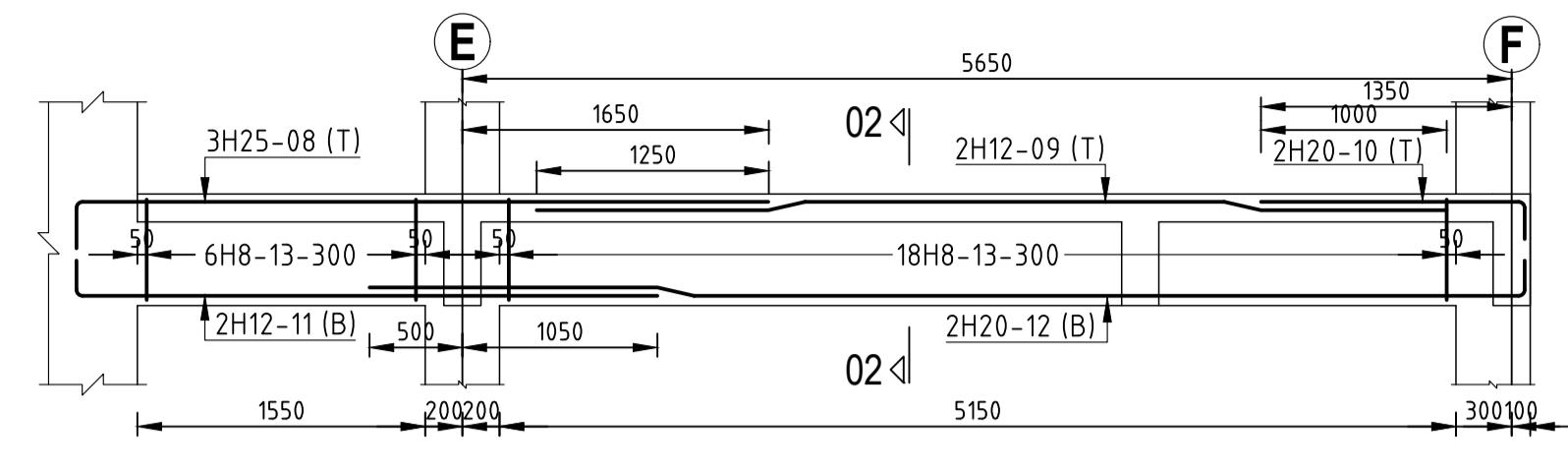
<u>NOTES</u>	<p>1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.</p> <p>2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.</p> <p>3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.</p> <p>4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.</p> <p>5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.</p> <p>6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.</p> <p>7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.</p> <p>8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.</p> <p>9. MAXIMUM AGGREGATE SIZE IS 20MM.</p> <p>10. BEARING CAPACITY IS 350kN/m².</p> <p>11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.</p> <p>12. HARDCORE TO BE HAND PACKED AND COMPACTED TO ENGINEER'S SATISFACTION.</p> <p>13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.</p> <p>14. SLAB CONCRETE CLASS IS C25/30.</p> <p>15. SLAB CONCRETE COVER TO REINFORCEMENT IS 25MM.</p> <p>16. THE FOLLOWING ABBREVIATIONS WERE USED: - c - COLUMN.</p>	PROJECT: STRUCTURAL DESIGN OF A SIX STOREY OFFICE BLOCK	GROUND FLOOR LAYOUT
CLIENT:	MUIRURI CEPHAS NJENGA	DRAWN BY : REG. NO. : F16/136471/2019	
CHECKED BY : ALY AND KHALID DAHYA	10/03/2024	SCALE : 1:30, 1:50	DWG NO. 09/24



BEAM 01 200x600

SCALE 1:40

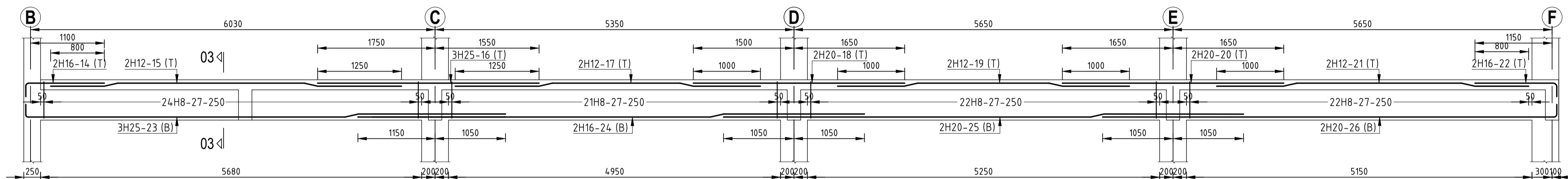
SECTION 01-01
SCALE 1:40



BEAM 02 200x600

SCALE 1:40

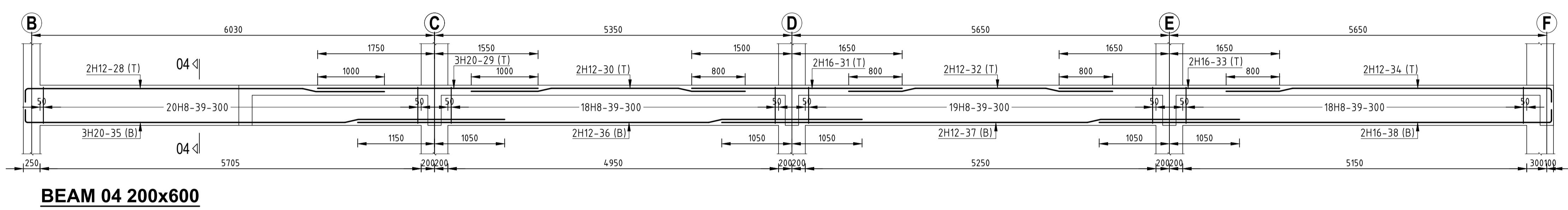
SECTION 02-02
SCALE 1:40



BEAM 03 200x600

SCALE 1:40

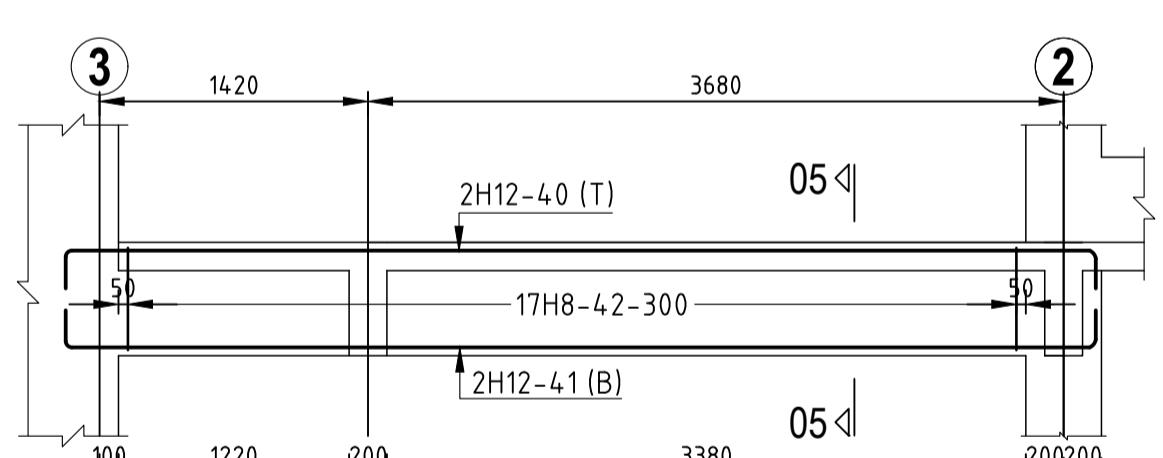
SECTION 03-03
SCALE 1:40



BEAM 04 200x600

SCALE 1:40

SECTION 04-04
SCALE 1:40



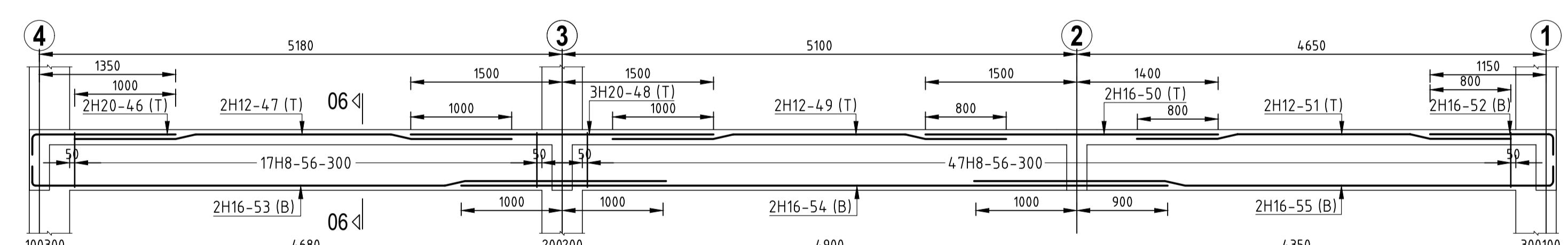
BEAM 05 200x600

SCALE 1:40

SECTION 05-05
SCALE 1:40

BEAM 06 200x600

SCALE 1:40



SECTION 06-06
SCALE 1:40

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
- IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
- ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
- THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
- ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
- FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
- DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
- MAXIMUM AGGREGATE SIZE IS 20MM.
- BEARING CAPACITY IS 350kN/m².
- HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
- HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
- MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
- BEAM CONCRETE CLASS IS C25/30.
- BEAM CONCRETE COVER TO REINFORCEMENT IS 30MM.
- THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

GROUND BEAM REINFORCEMENT DETAILS

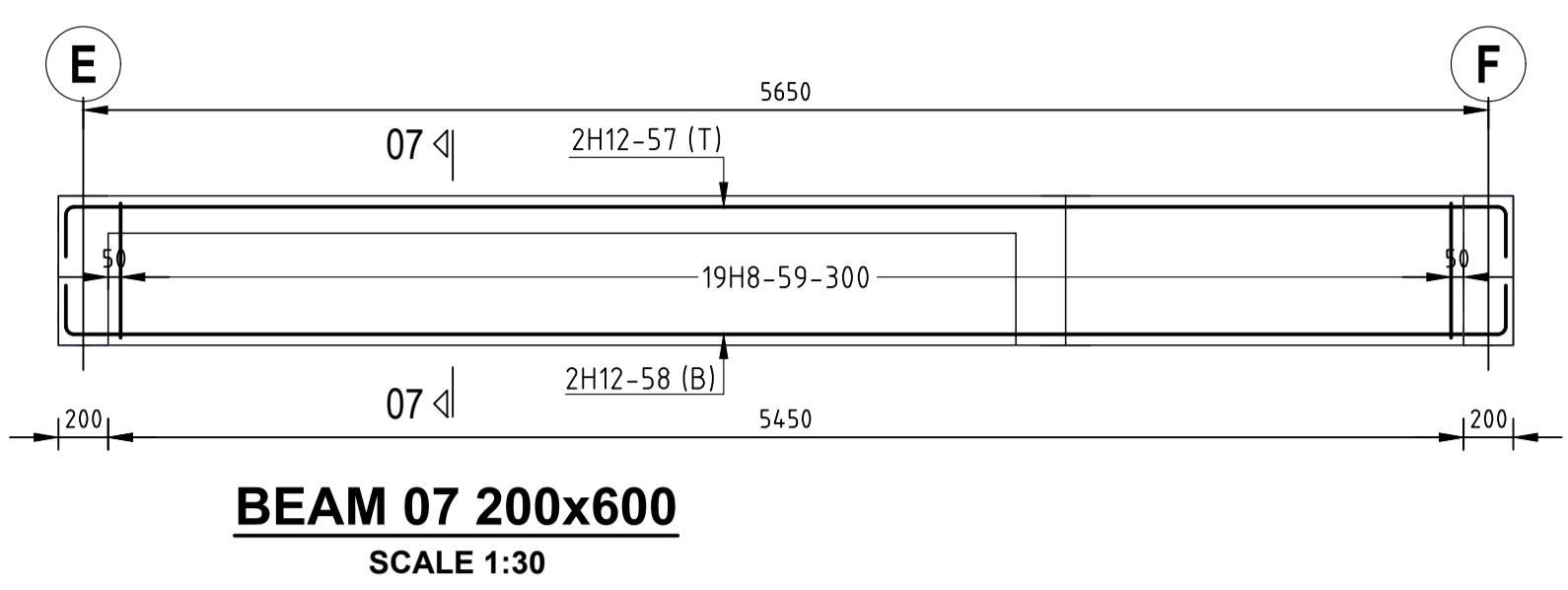
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

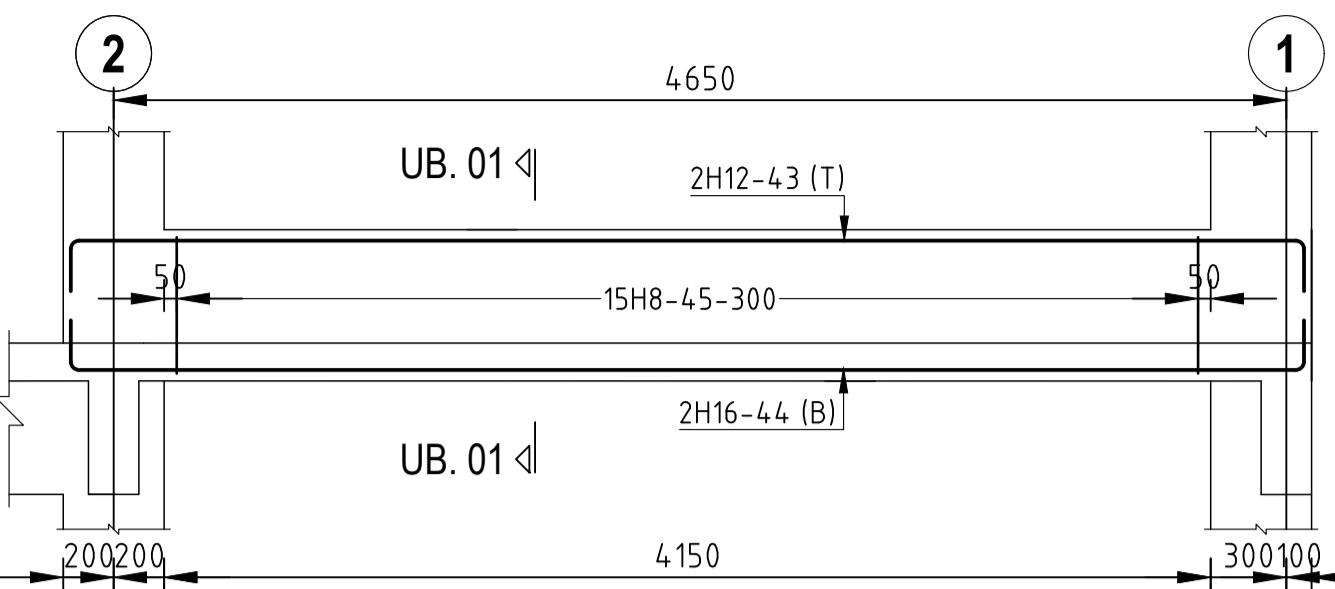
CHECKED BY : ENG. E. GORO 11/03/2024

SCALE : 1:40

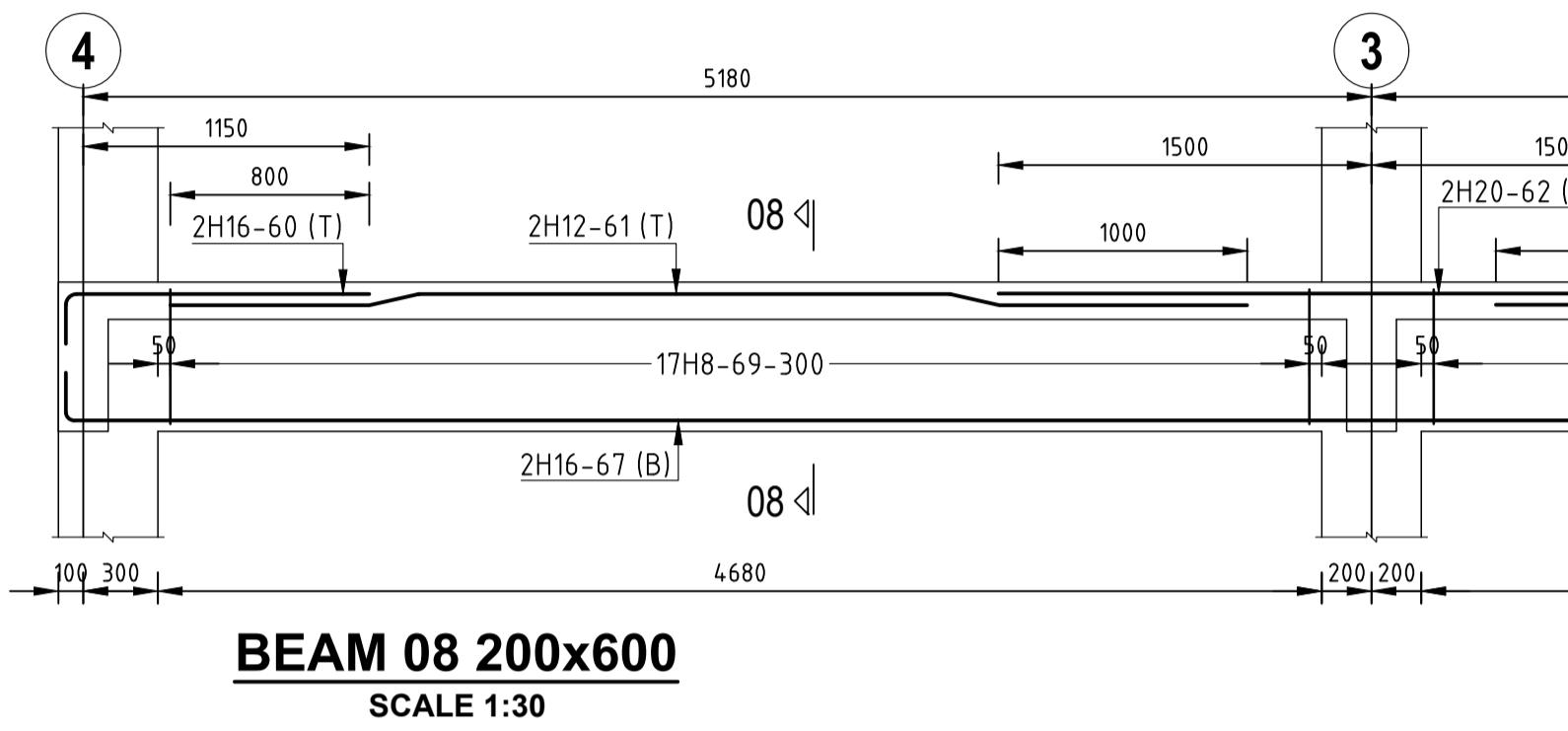
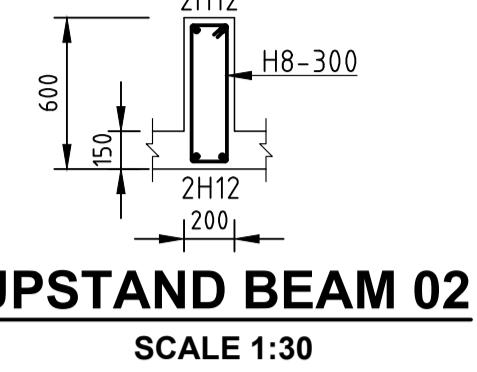
DWG NO. 10/24



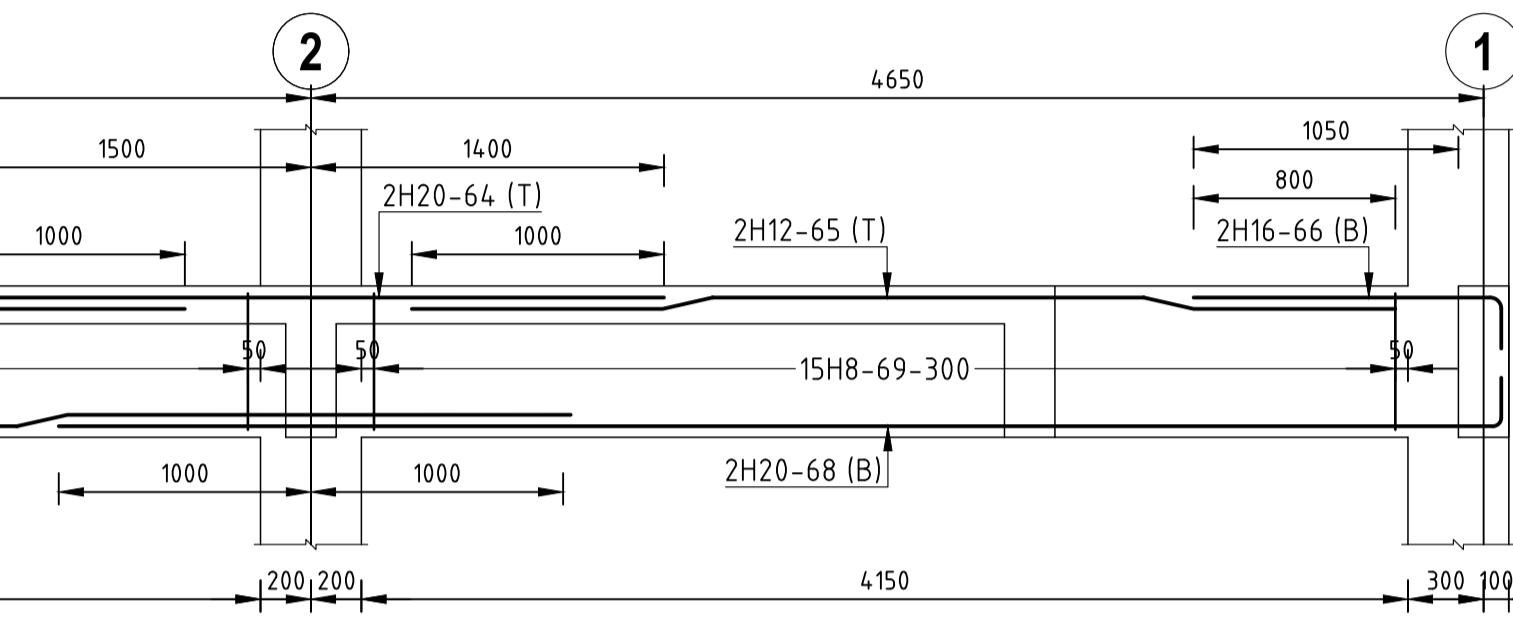
SECTION 07-07
SCALE 1:30



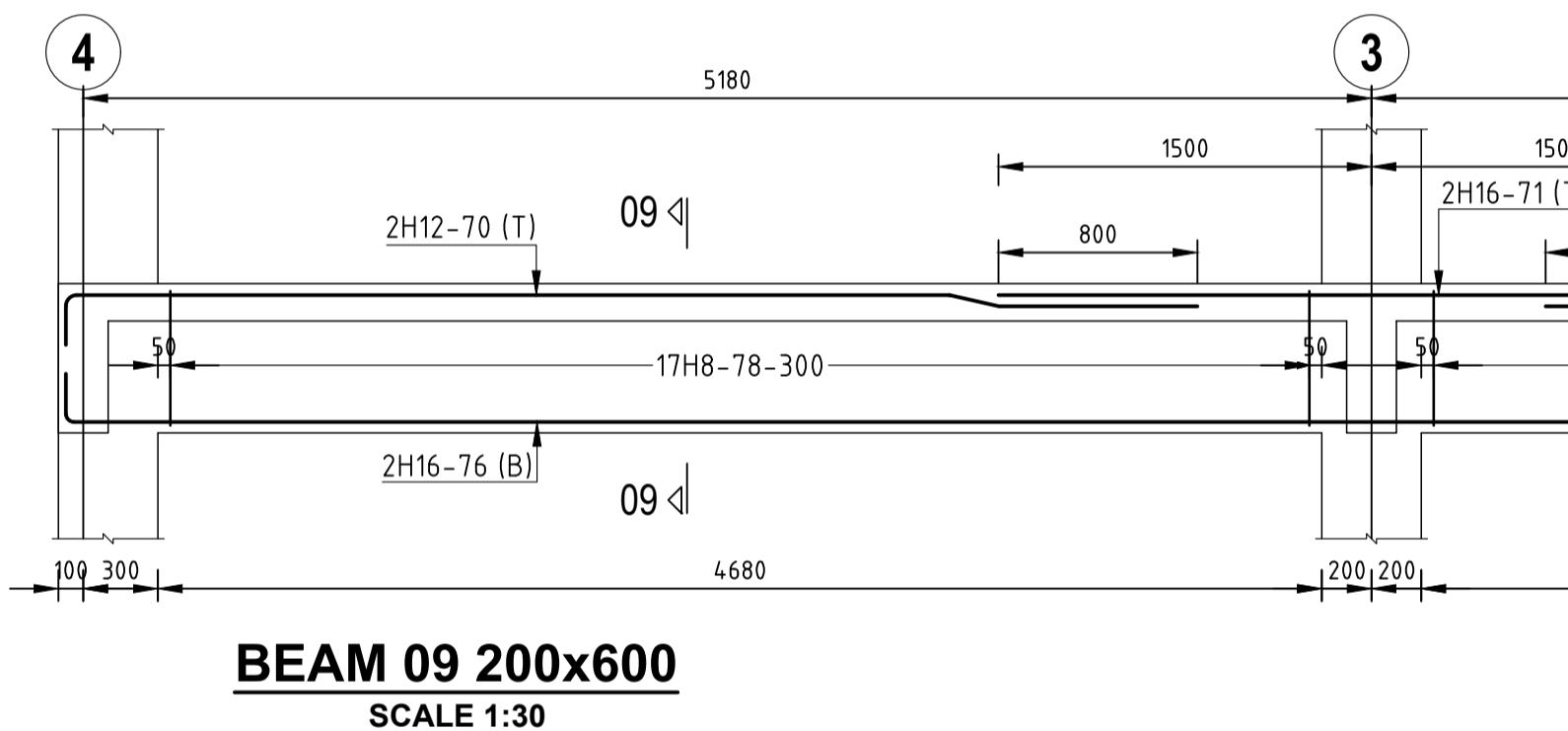
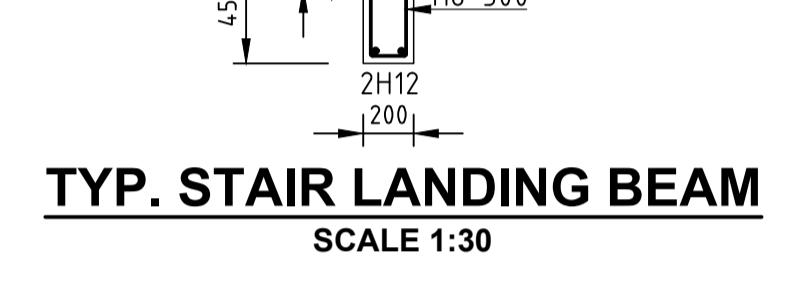
UPSTAND BEAM 01
SCALE 1:30



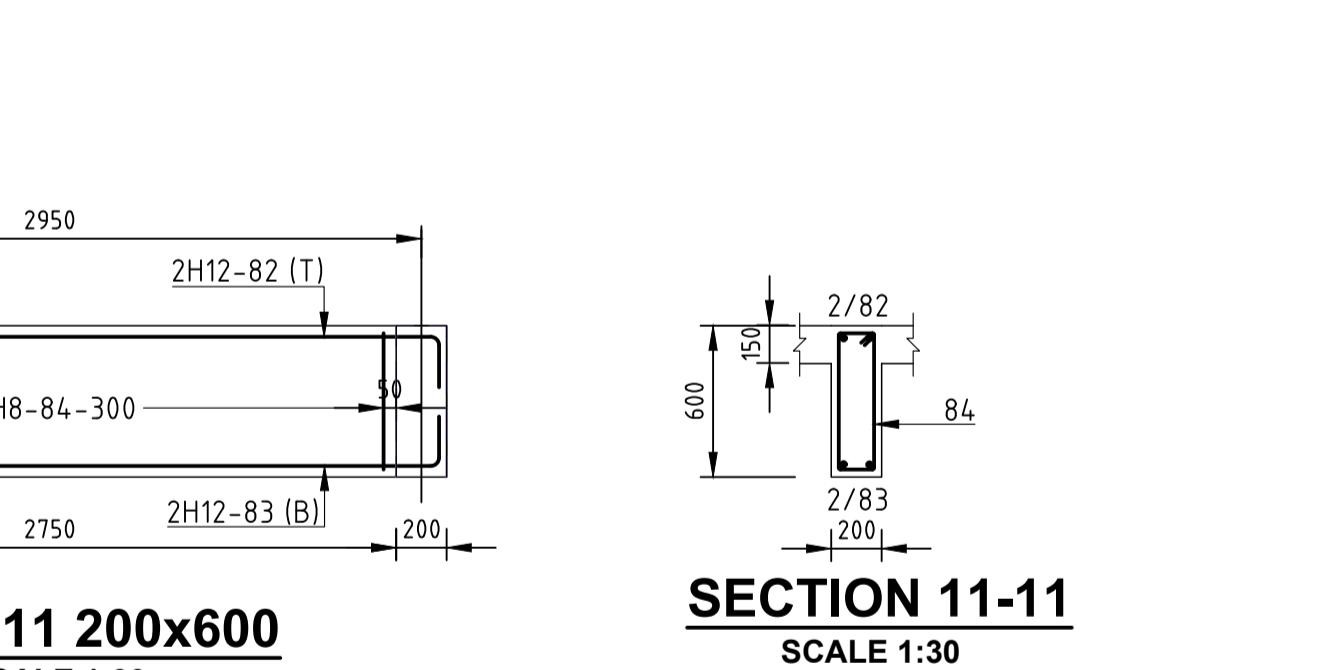
SECTION 08-08
SCALE 1:30



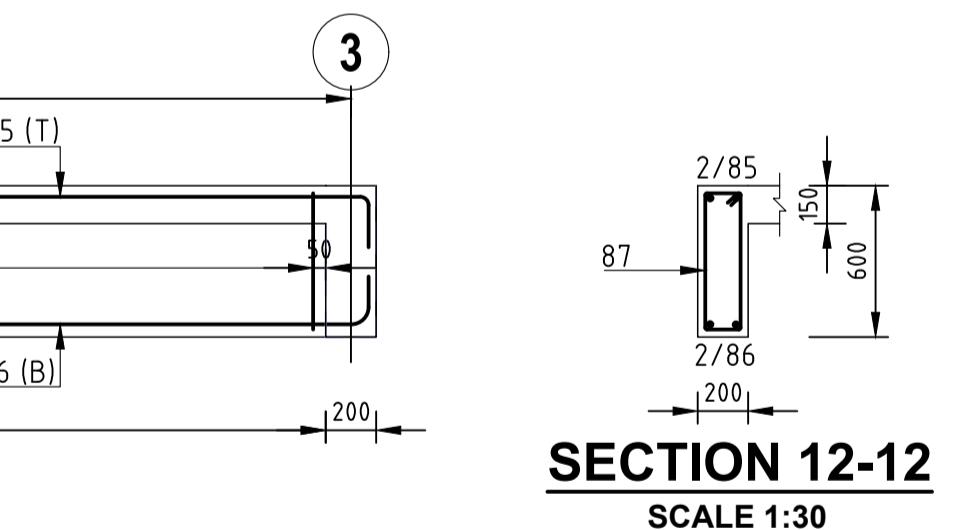
SECTION 09-09
SCALE 1:30



SECTION 10-10
SCALE 1:30



SECTION 11-11
SCALE 1:30



SECTION 12-12
SCALE 1:30

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. BEAM CONCRETE CLASS IS C25/30.
15. BEAM CONCRETE COVER TO REINFORCEMENT IS 30MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK

CLIENT: ALY AND KHALID
DAHYA

GROUND BEAM REINFORCEMENT DETAILS

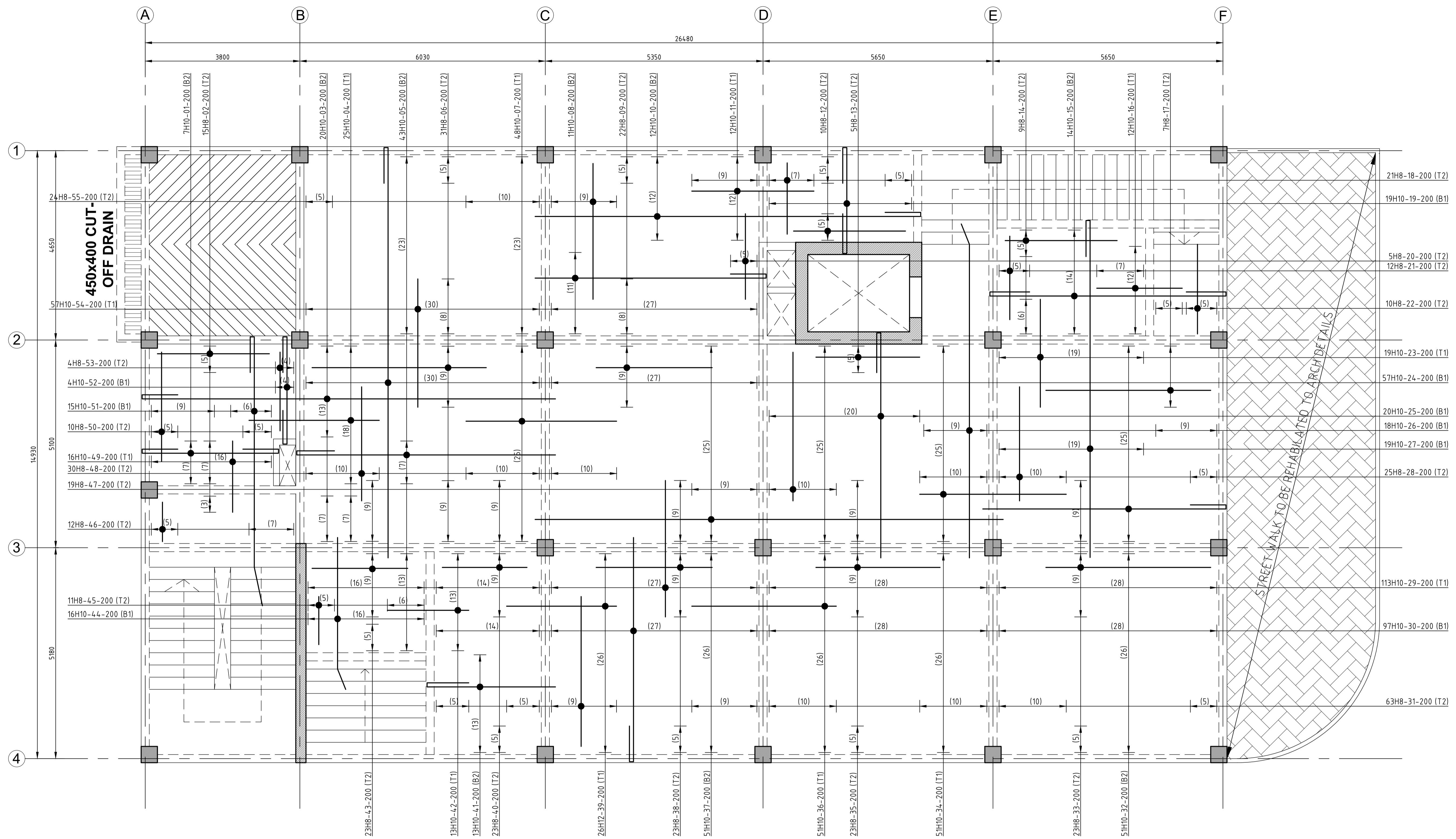
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

CHECKED BY : ENG. E. GORO 11/03/2024

SCALE : 1:30

DWG NO. 11/24

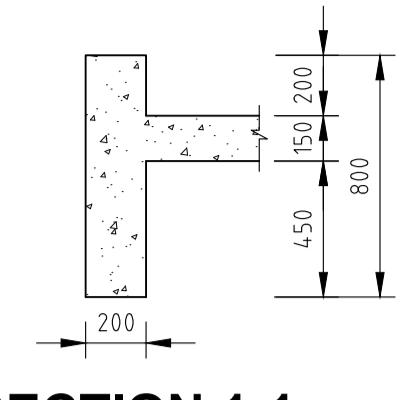
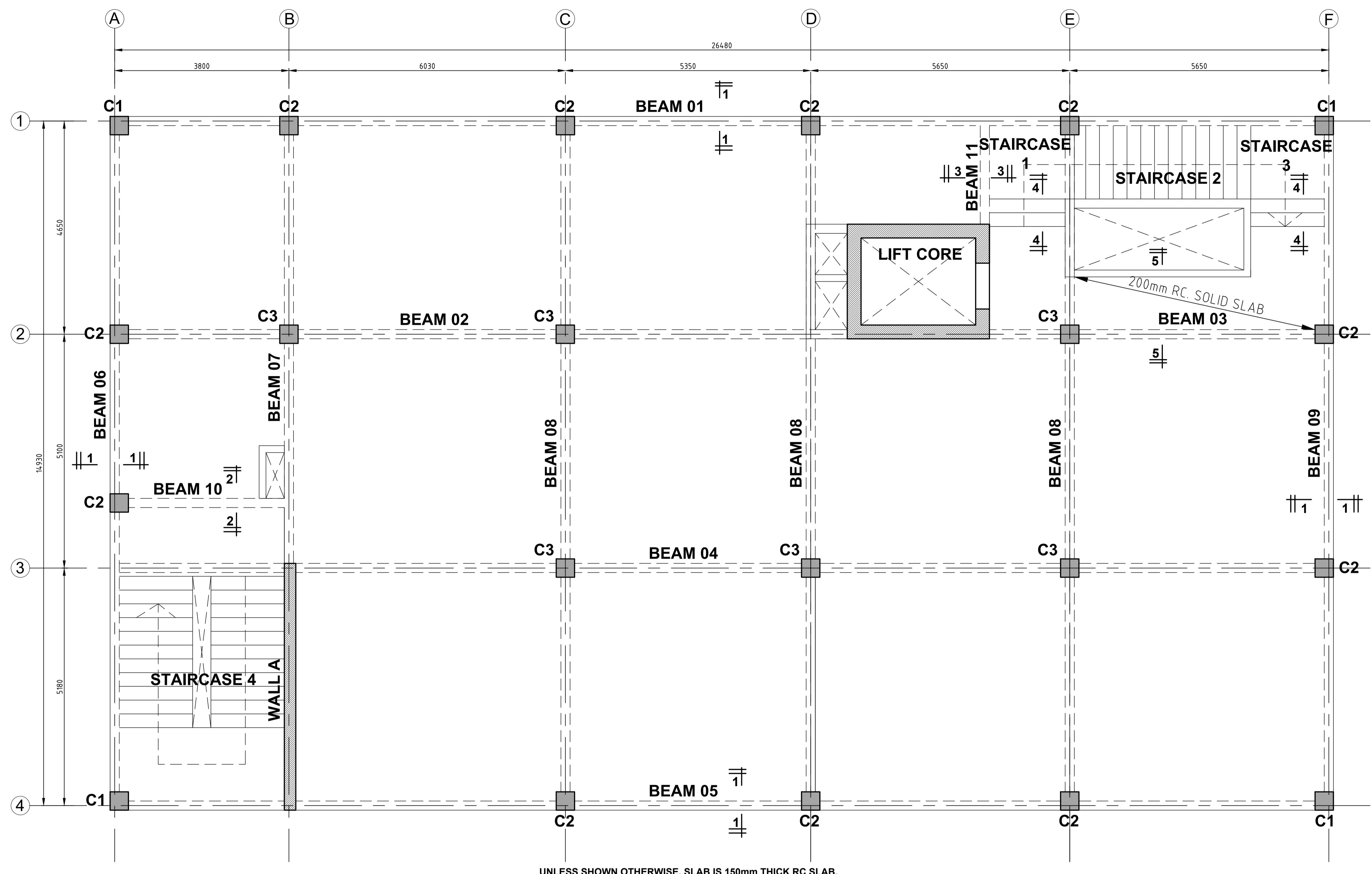


NOTES

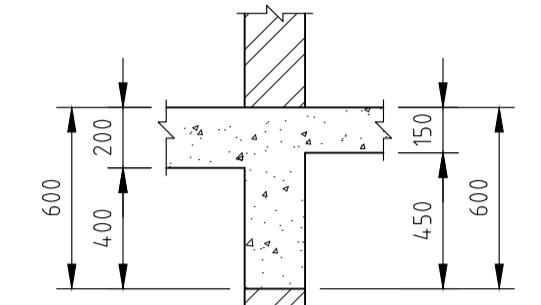
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. SLAB CONCRETE CLASS IS C25/30.
15. SLAB CONCRETE COVER TO REINFORCEMENT IS 25MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP, - B - BOTTOM.

PROJECT: STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK
CLIENT: ALY AND KHALID
DAHYA

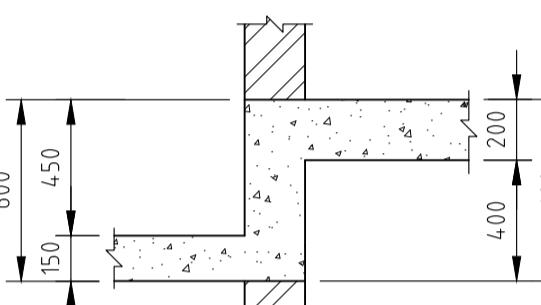
GROUND FLOOR REINFORCEMENT DETAILS	
DRAWN BY : MUIRURI CEPHAS NJENGA	
REG. NO. : F16/136471/2019	
CHECKED BY : ENG. E. GORO	12/03/2024
SCALE : 1:50	
DWG NO. 12/24	



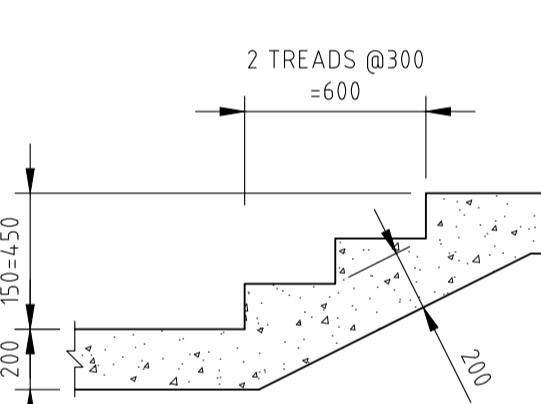
SECTION 1-1
SCALE 1:25



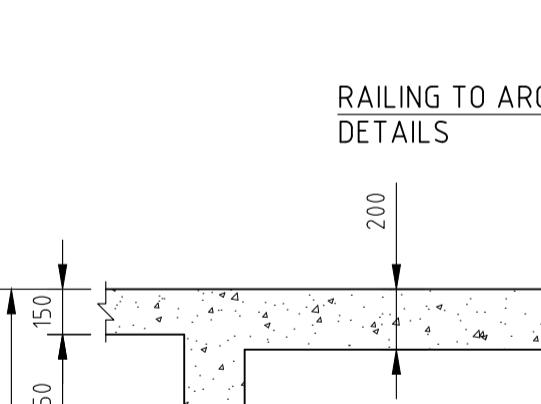
SECTION 2-2
SCALE 1:25



SECTION 3-3
SCALE 1:25



SECTION 4-4
SCALE 1:25



SECTION 5-5
SCALE 1:25

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. SLAB CONCRETE CLASS IS C25/30.
15. SLAB CONCRETE COVER TO REINFORCEMENT IS 25MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- C - COLUMN.

PROJECT: STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK

CLIENT: ALY AND KHALID
DAHYA

TYPICAL FLOOR LAYOUT

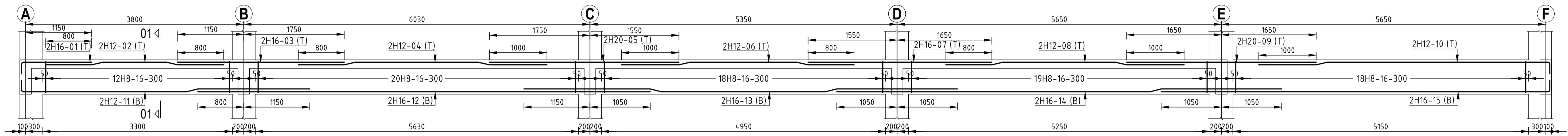
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

CHECKED BY : ENG. E. GORO 13/03/2024

SCALE : 1:25, 1:50

DWG NO. 13/24

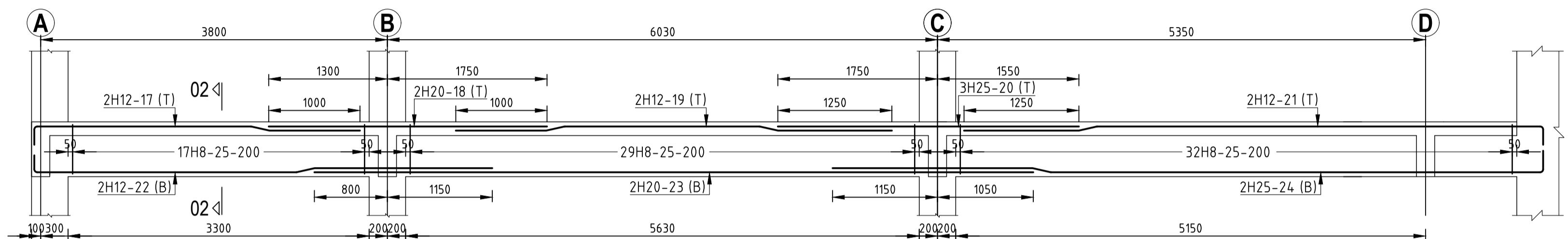


BEAM 01 200x600

SCALE 1:40

SECTION 01-01

SCALE 1:40

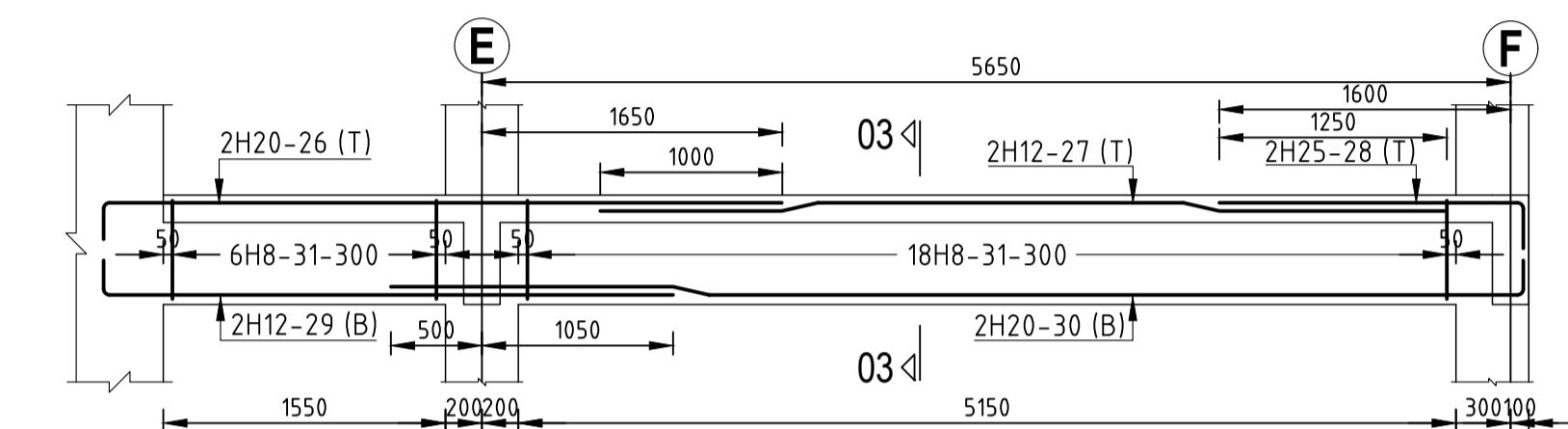


BEAM 02 200x600

SCALE 1:40

SECTION 02-02

SCALE 1:40

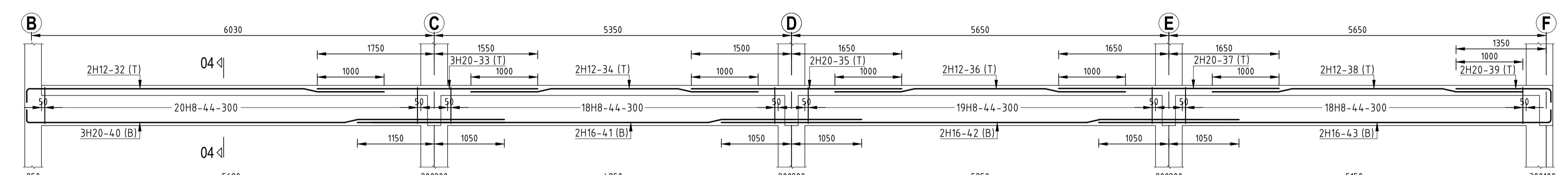


BEAM 03 200x600

SCALE 1:40

SECTION 03-03

SCALE 1:40

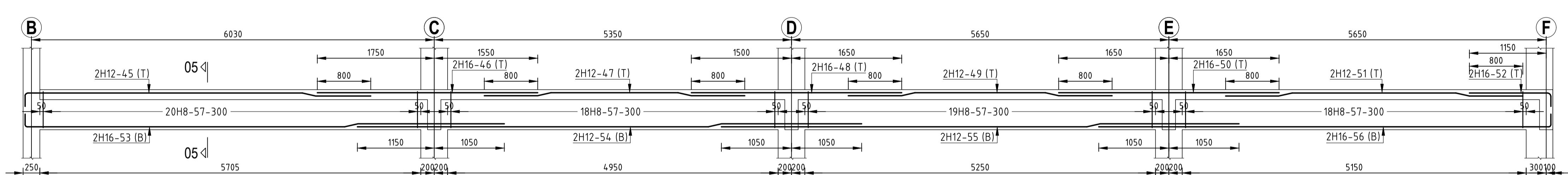


BEAM 04 200x600

SCALE 1:40

SECTION 04-04

SCALE 1:40



BEAM 05 200x600

SCALE 1:40

SECTION 05-05

SCALE 1:40

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
- IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
- ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
- THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
- ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
- FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
- DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
- MAXIMUM AGGREGATE SIZE IS 20MM.
- BEARING CAPACITY IS 350kN/m².
- HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
- HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
- MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
- BEAM CONCRETE CLASS IS C25/30.
- BEAM CONCRETE COVER TO REINFORCEMENT IS 30MM.
- THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

TYPICAL BEAM REINFORCEMENT DETAILS

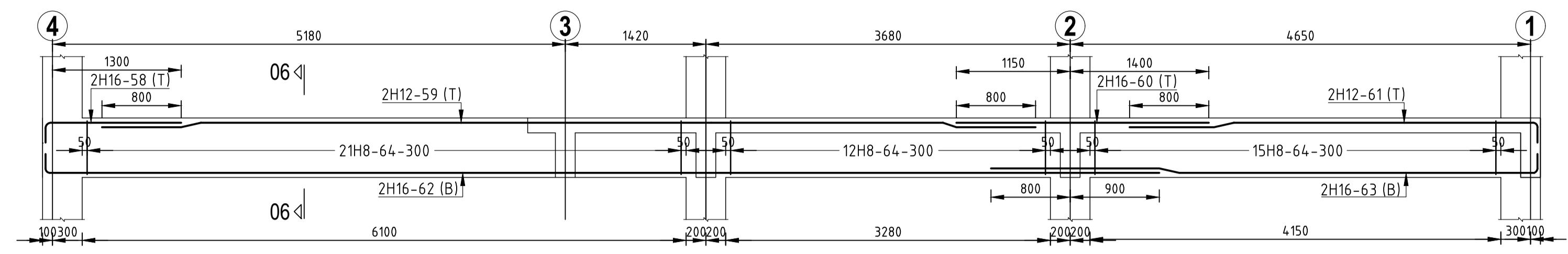
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

CHECKED BY : ENG. E. GORO 14/03/2024

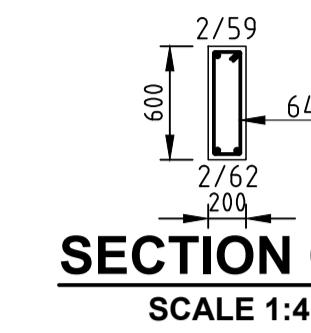
SCALE : 1:40

DWG NO. 14/24



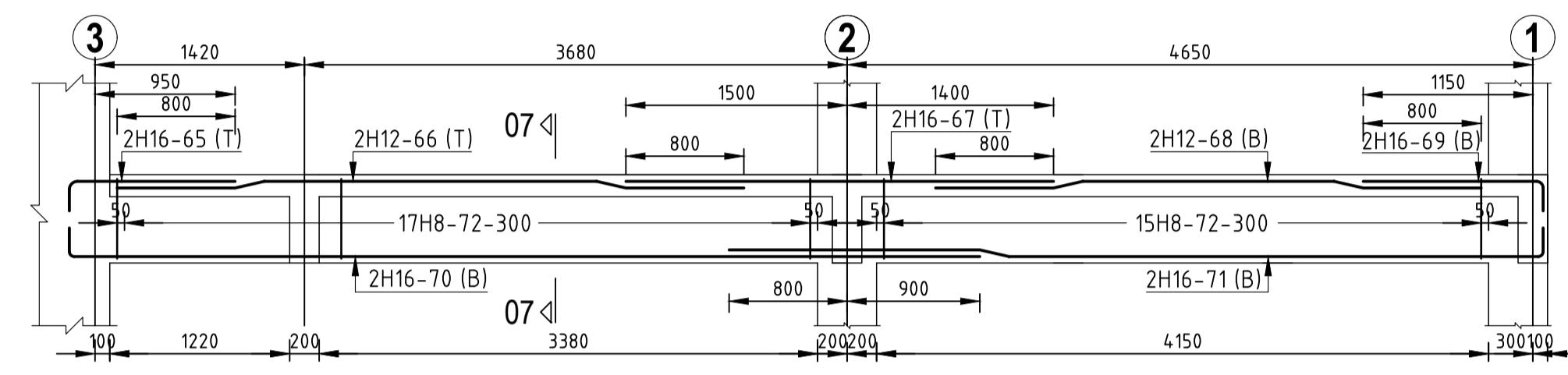
BEAM 06 200x600

SCALE 1:40



SECTION 06-06

SCALE 1:40

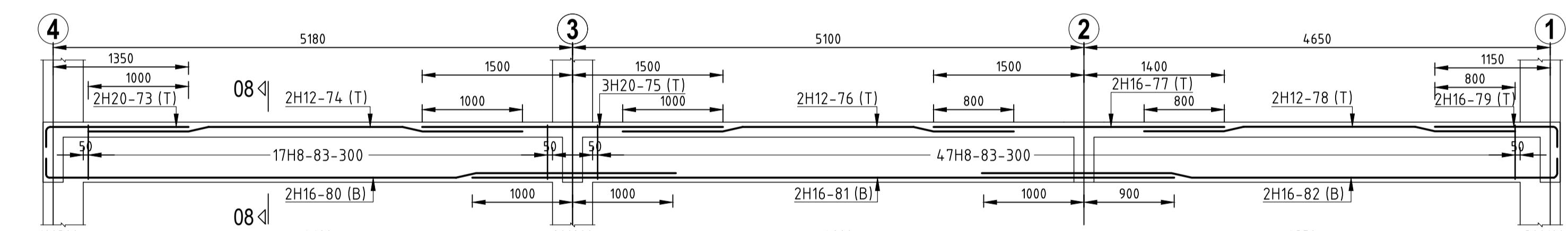


BEAM 07 200x600

SCALE 1:40

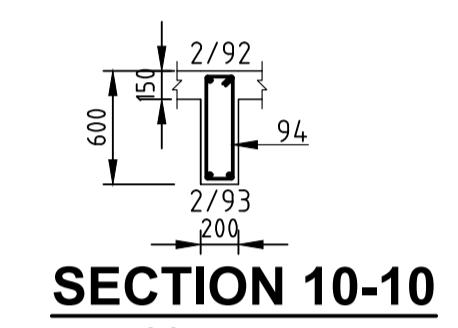
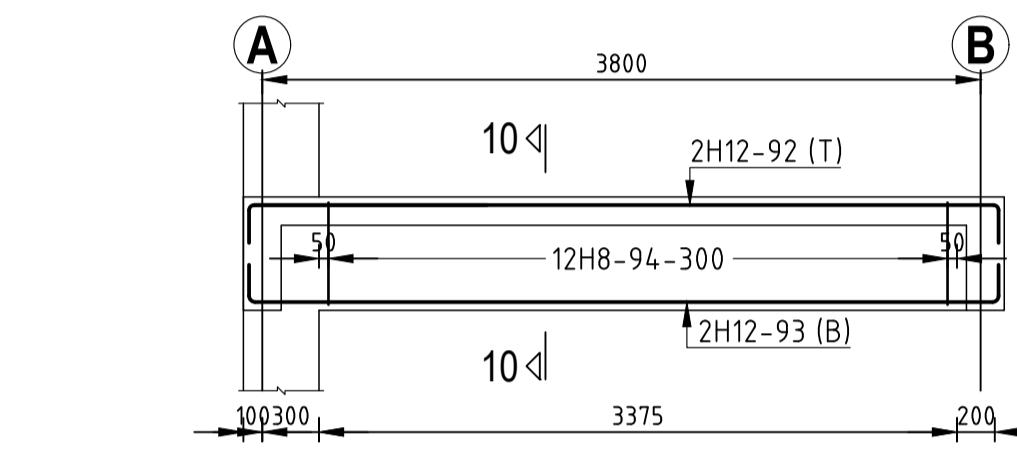
SECTION 07-07

SCALE 1:40



BEAM 08 200x600

SCALE 1:40

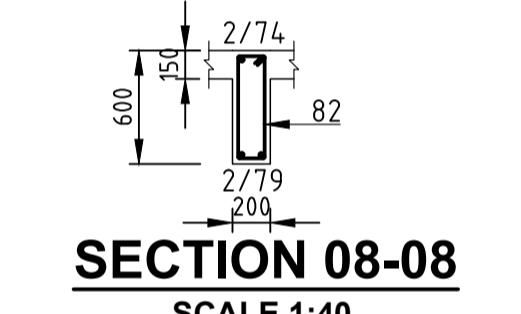


SECTION 10-10

SCALE 1:40

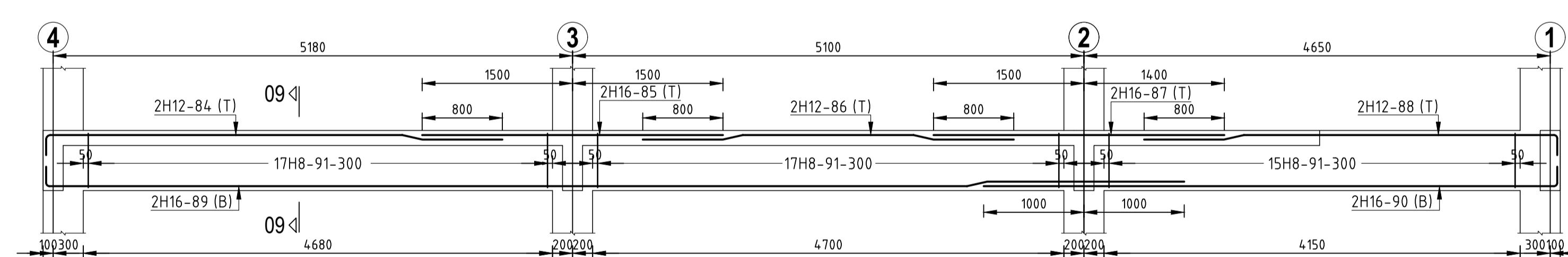
BEAM 10 200x600

SCALE 1:40



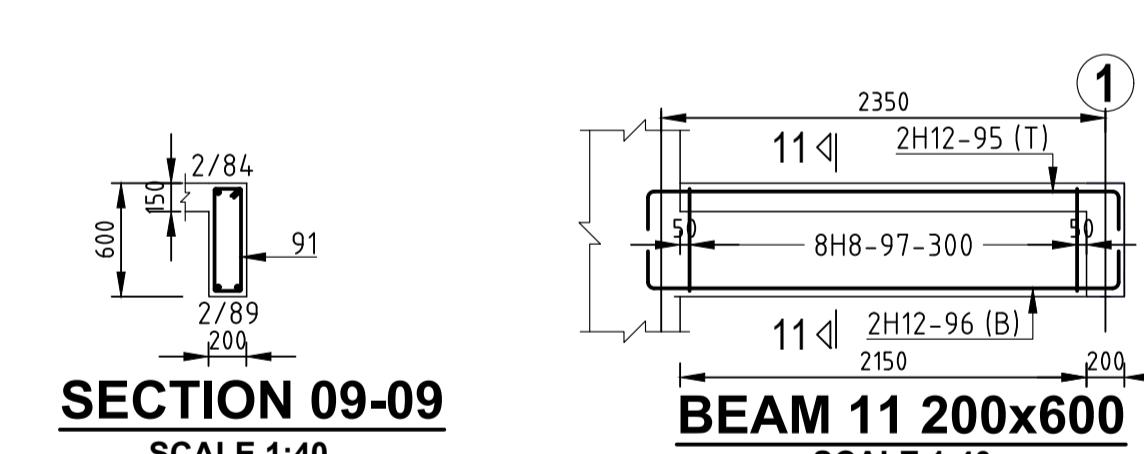
SECTION 08-08

SCALE 1:40



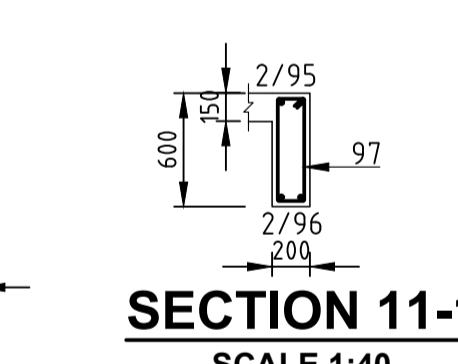
BEAM 09 200x600

SCALE 1:40



SECTION 09-09

SCALE 1:40



SECTION 11-11

SCALE 1:40

BEAM 11 200x600

SCALE 1:40

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
- IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
- ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
- THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
- ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
- FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
- DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
- MAXIMUM AGGREGATE SIZE IS 20MM.
- BEARING CAPACITY IS 350kN/m².
- HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
- HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
- MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
- BEAM CONCRETE CLASS IS C25/30.
- BEAM CONCRETE COVER TO REINFORCEMENT IS 30MM.
- THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

TYPICAL BEAM REINFORCEMENT DETAILS

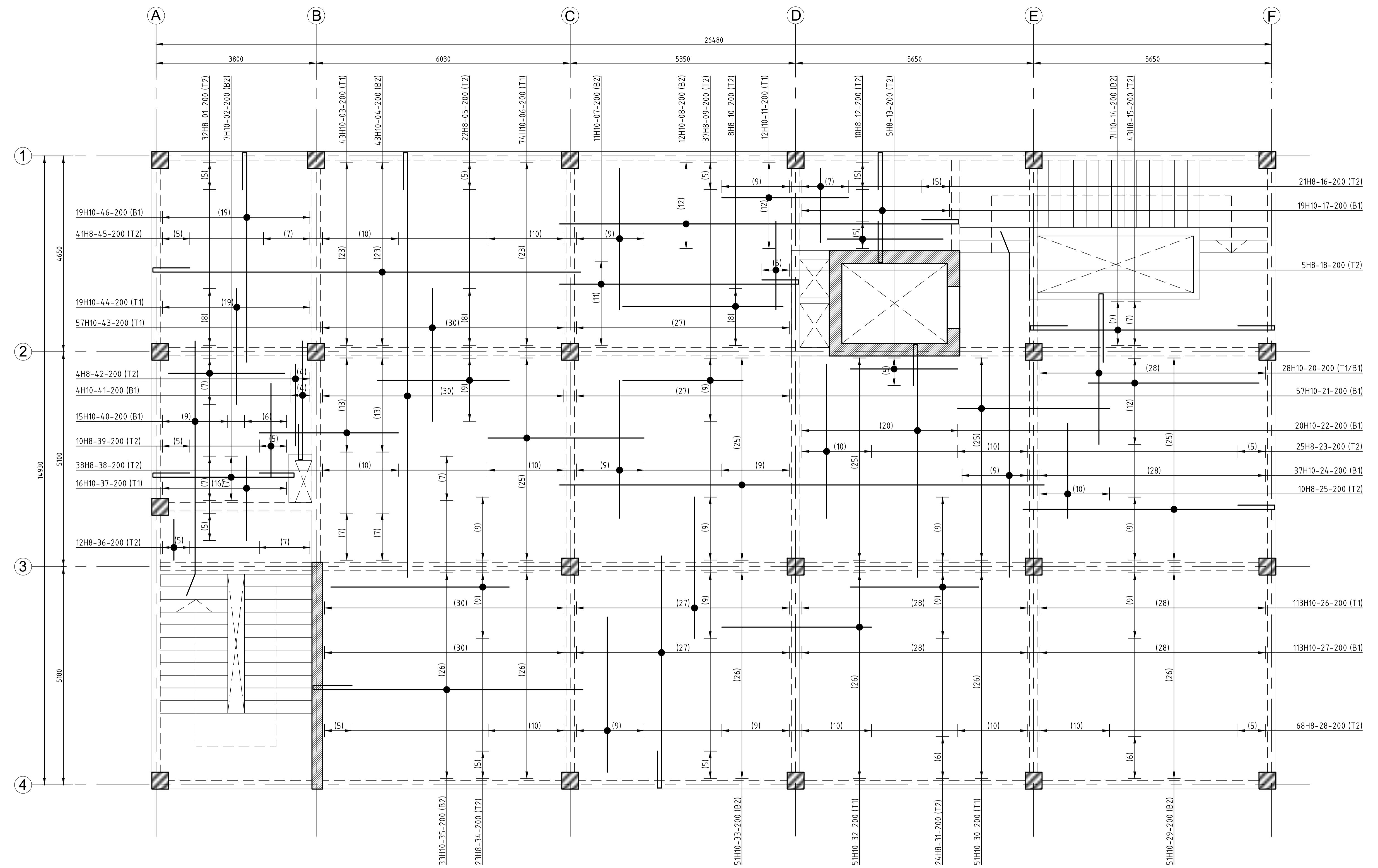
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

CHECKED BY : ENG. E. GORO 14/03/2024

SCALE : 1:40

DWG NO. 15/24



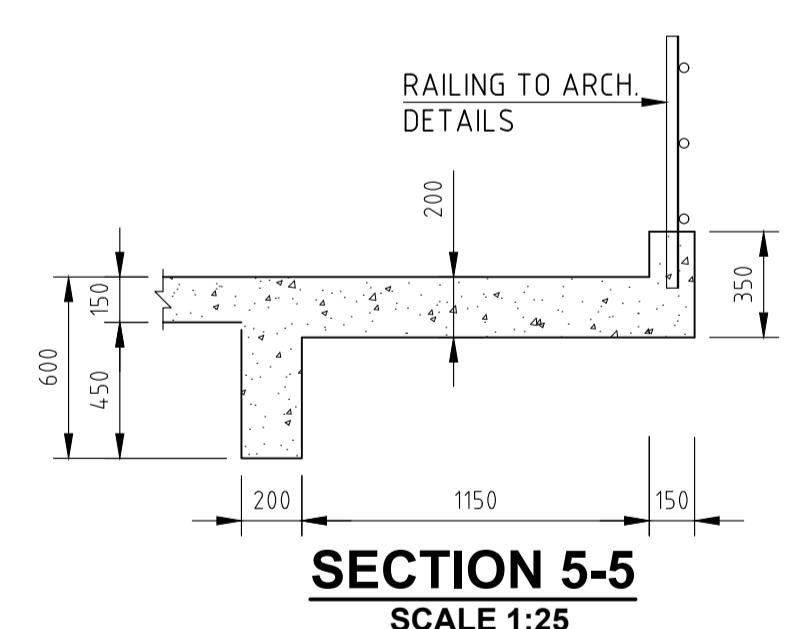
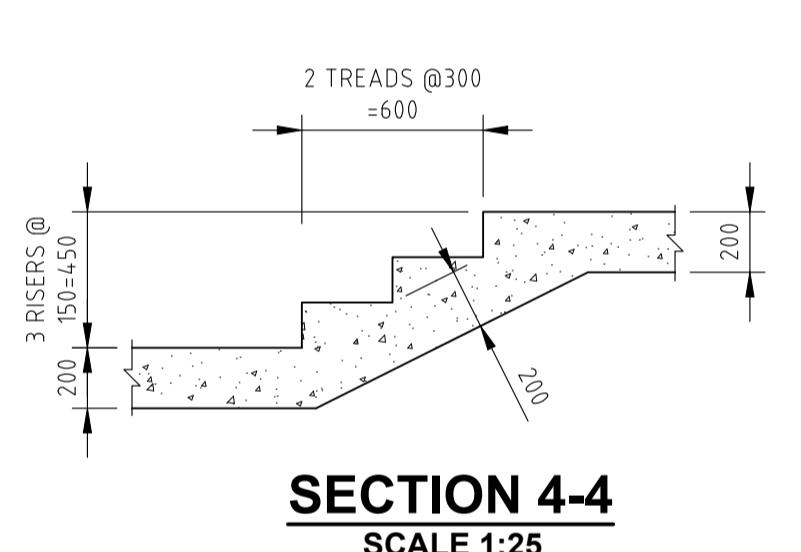
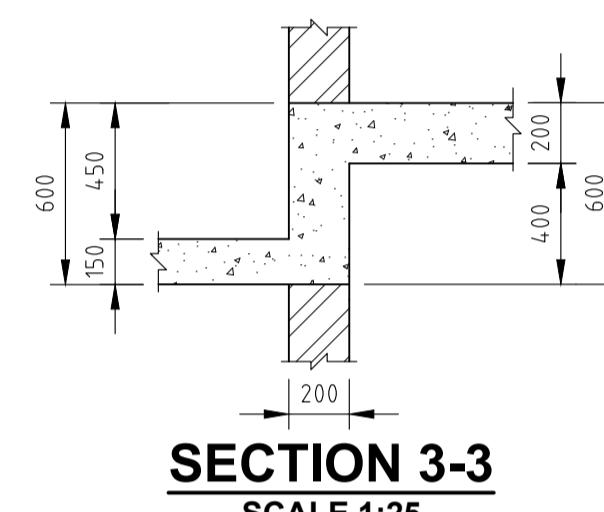
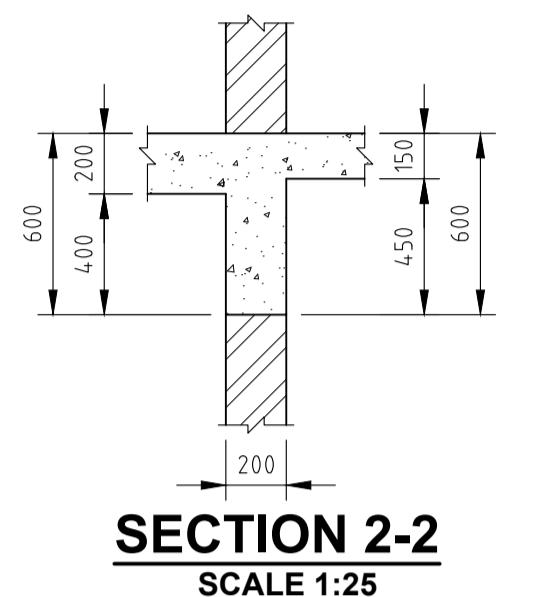
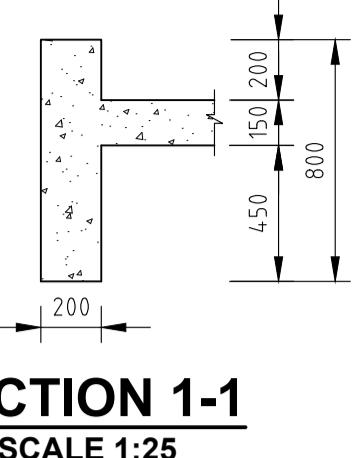
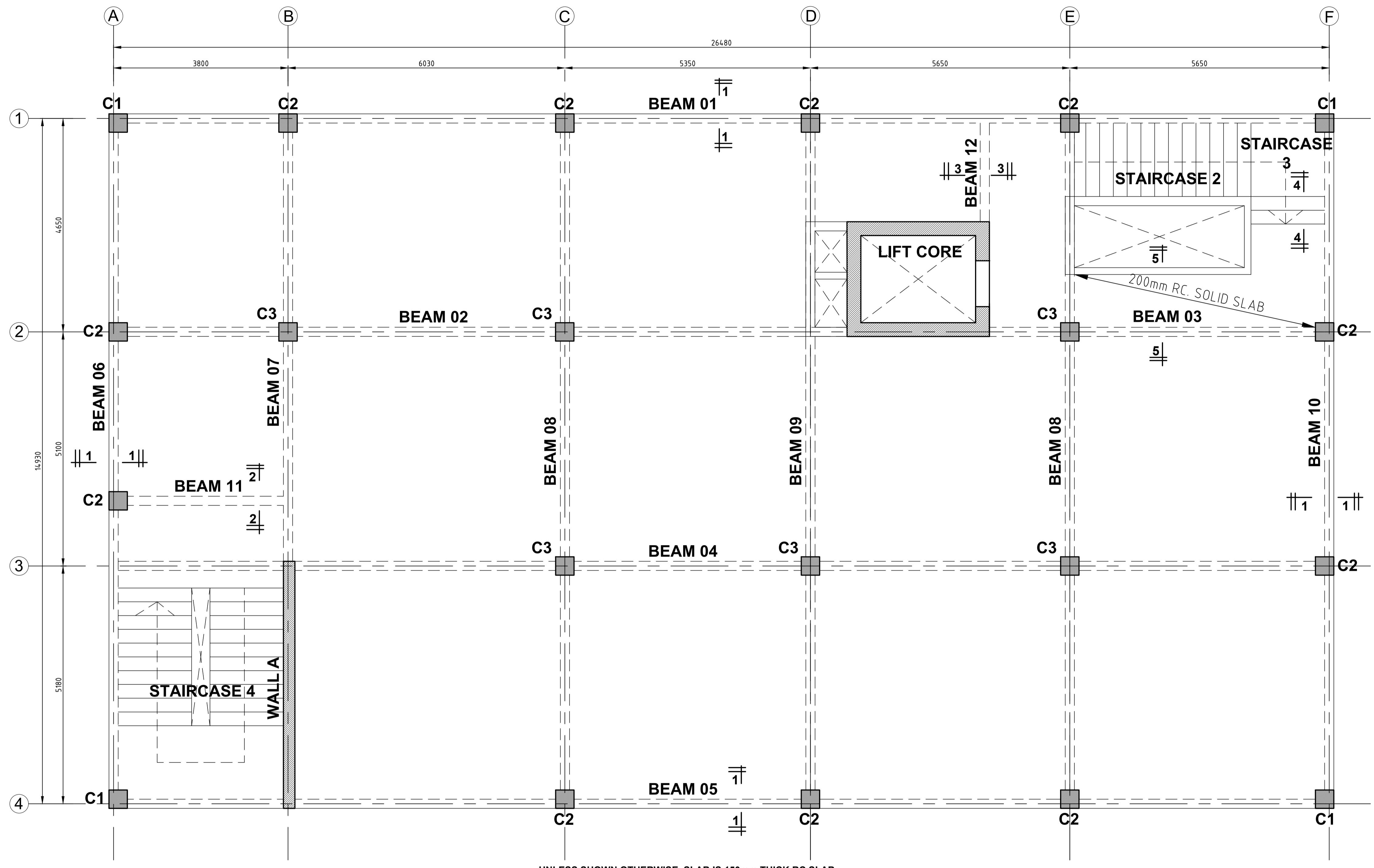
NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. SLAB CONCRETE CLASS IS C25/30.
15. SLAB CONCRETE COVER TO REINFORCEMENT IS 25MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP, - B - BOTTOM.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

TYPICAL SLAB REINFORCEMENT DETAILS	
DRAWN BY : MUIRURI CEPHAS NJENGA	
REG. NO. : F16/136471/2019	
CHECKED BY : ENG. E. GORO	15/03/2024
SCALE : 1:50	
DWG NO. 16/24	



NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. SLAB CONCRETE CLASS IS C25/30.
15. SLAB CONCRETE COVER TO REINFORCEMENT IS 25MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- C - COLUMN.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

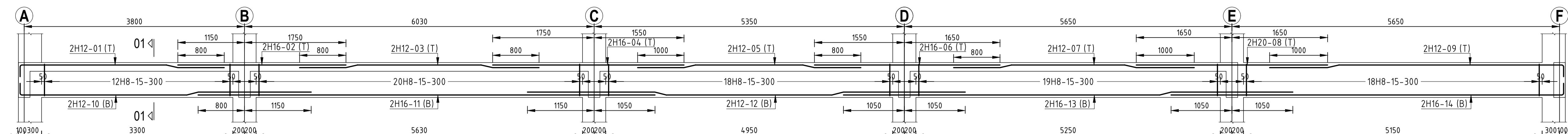
FIFTH FLOOR LAYOUT

DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

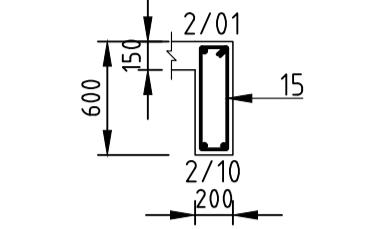
CHECKED BY : ENG. E. GORO 16/03/2024

SCALE : 1:25, 1:50 DWG NO. 17/24



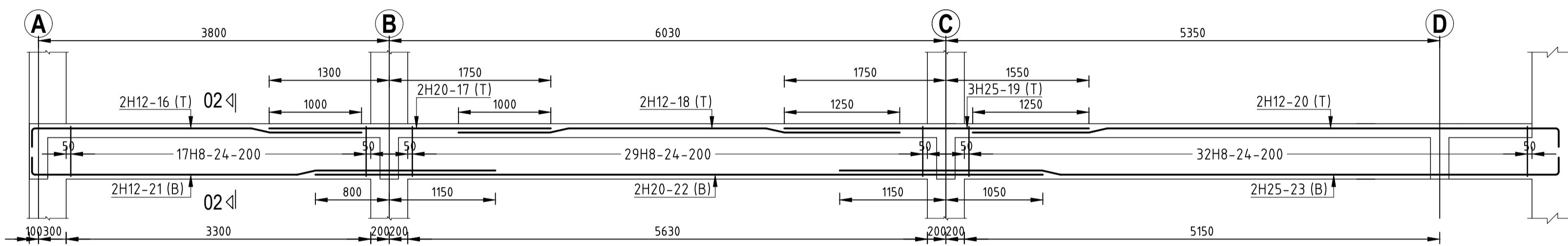
BEAM 01 200x600

SCALE 1:40



SECTION 01-01

SCALE 1:40



BEAM 02 200x600

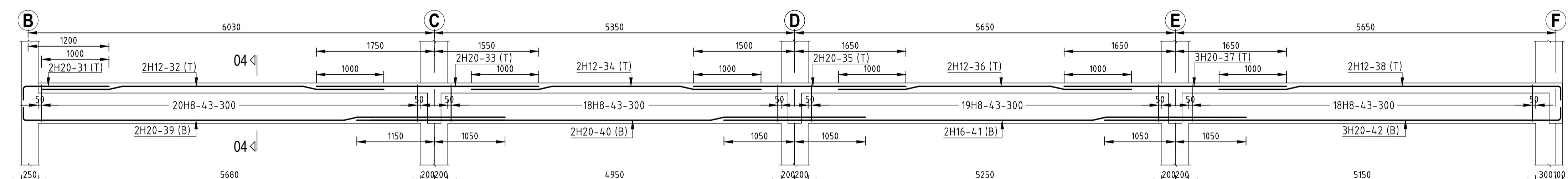
SCALE 1:40

SECTION 02-02

SCALE 1:40

SECTION 03-03

SCALE 1:40

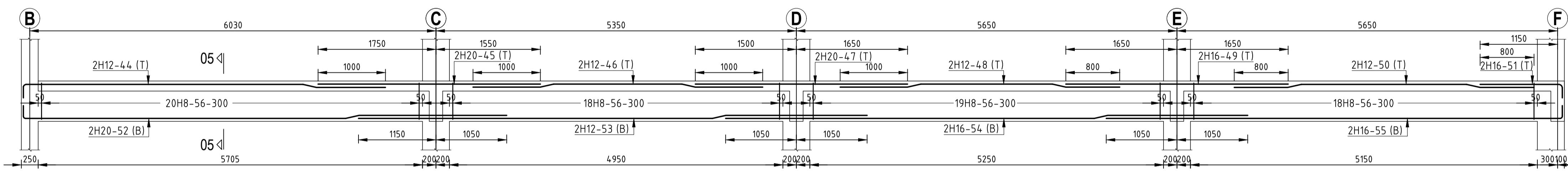


BEAM 03 200x600

SCALE 1:40

BEAM 03 200x600

SCALE 1:40



BEAM 04 200x600

SCALE 1:40

SECTION 04-04

SCALE 1:40

SECTION 05-05

SCALE 1:40

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. BEAM CONCRETE CLASS IS C25/30.
15. BEAM CONCRETE COVER TO REINFORCEMENT IS 30MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

FIFTH FL. BEAM REINFORCEMENT DETAILS

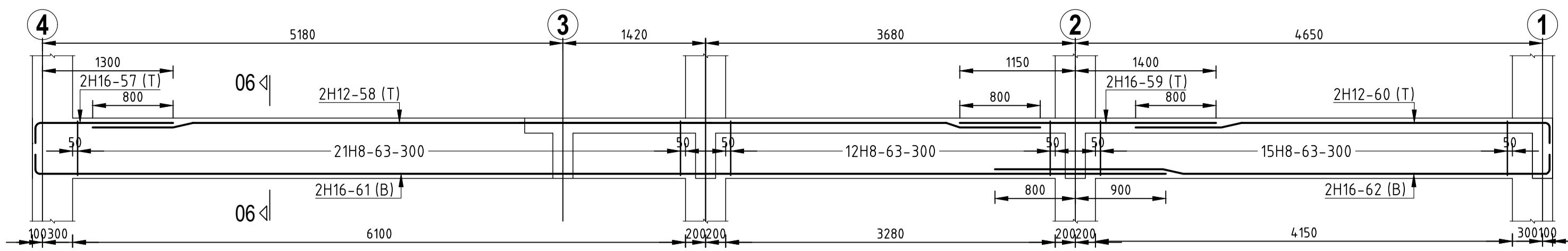
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

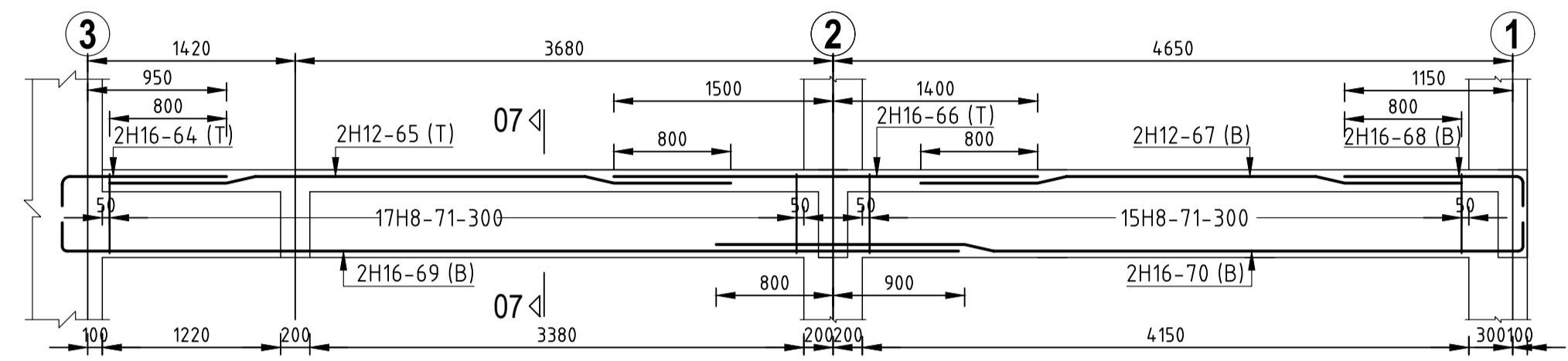
CHECKED BY : ENG. E. GORO 16/03/2024

SCALE : 1:40

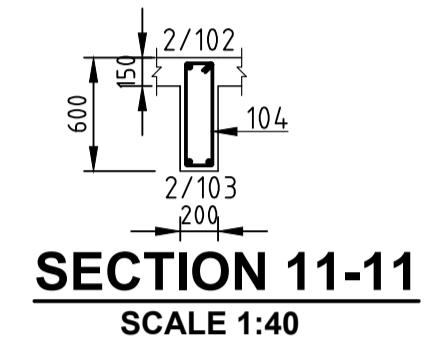
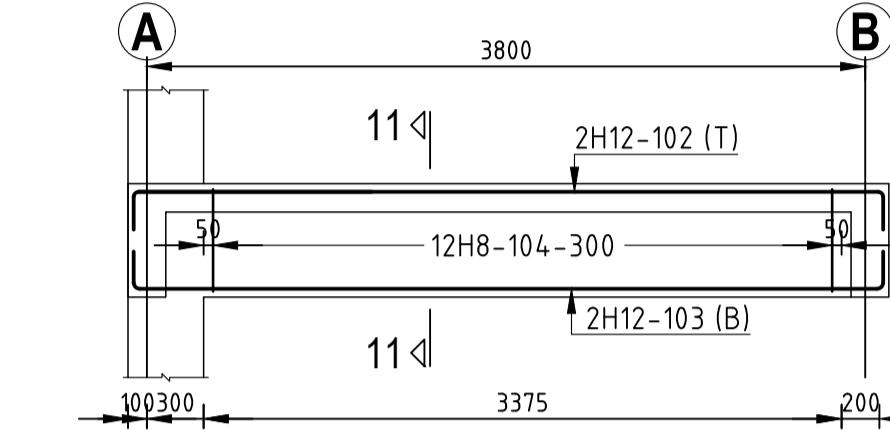
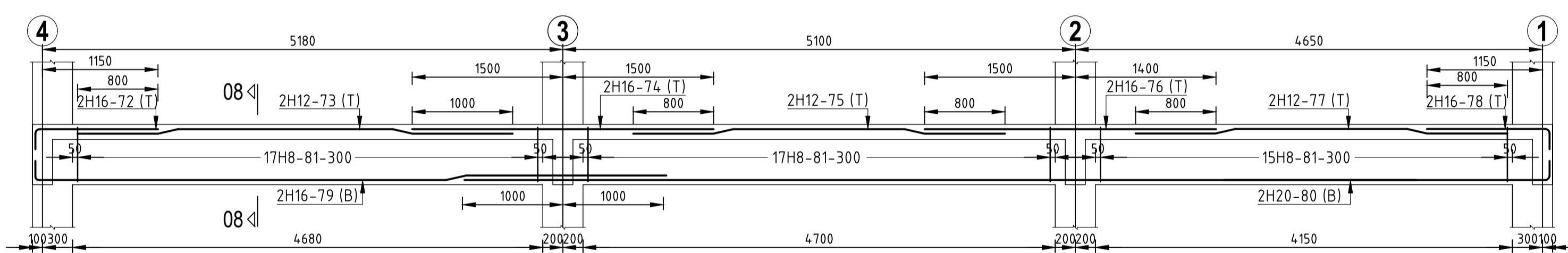
DWG NO. 18/24



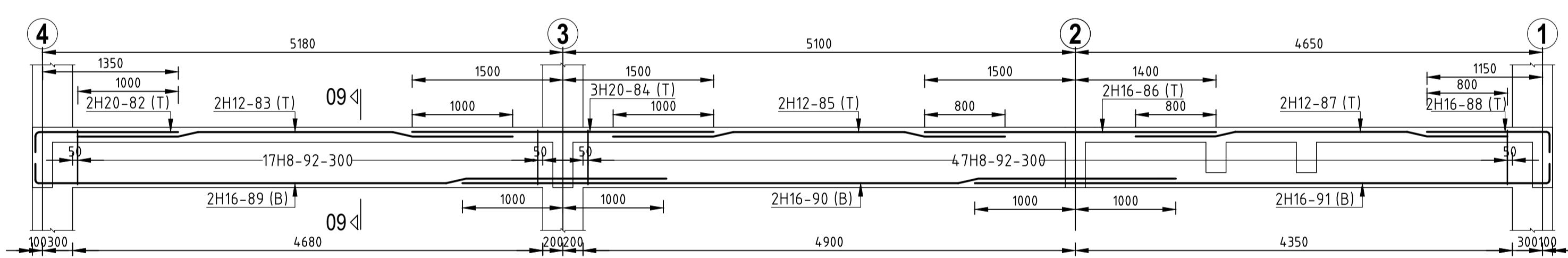
SECTION 06-06
SCALE 1:40



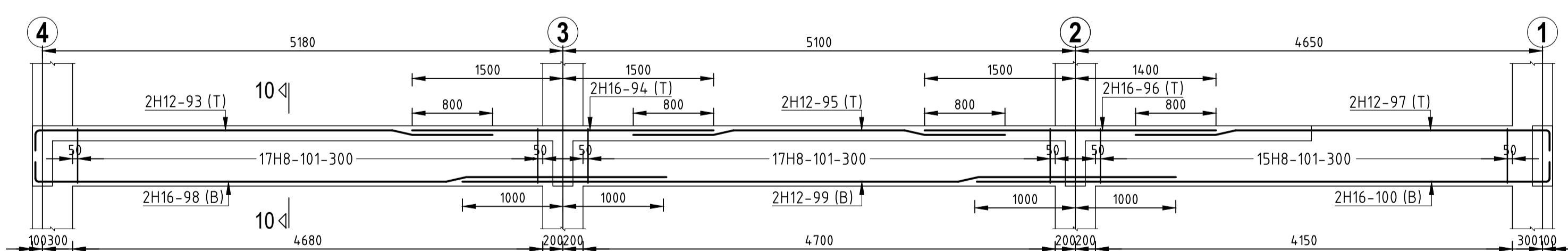
SECTION 07-07
SCALE 1:40



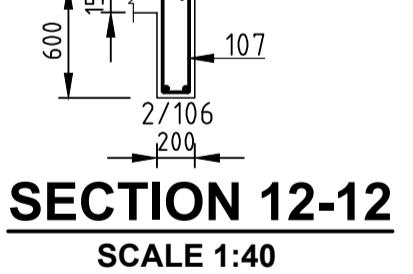
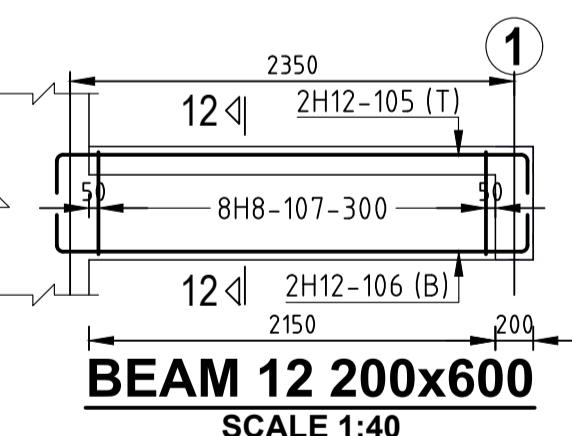
SECTION 08-08
SCALE 1:40



SECTION 09-09
SCALE 1:40



SECTION 10-10
SCALE 1:40



NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
- IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
- ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
- THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
- ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
- FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
- DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
- MAXIMUM AGGREGATE SIZE IS 20MM.
- BEARING CAPACITY IS 350kN/m².
- HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
- HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
- MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
- BEAM CONCRETE CLASS IS C25/30.
- BEAM CONCRETE COVER TO REINFORCEMENT IS 30MM.
- THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

FIFTH FL. BEAM REINFORCEMENT DETAILS

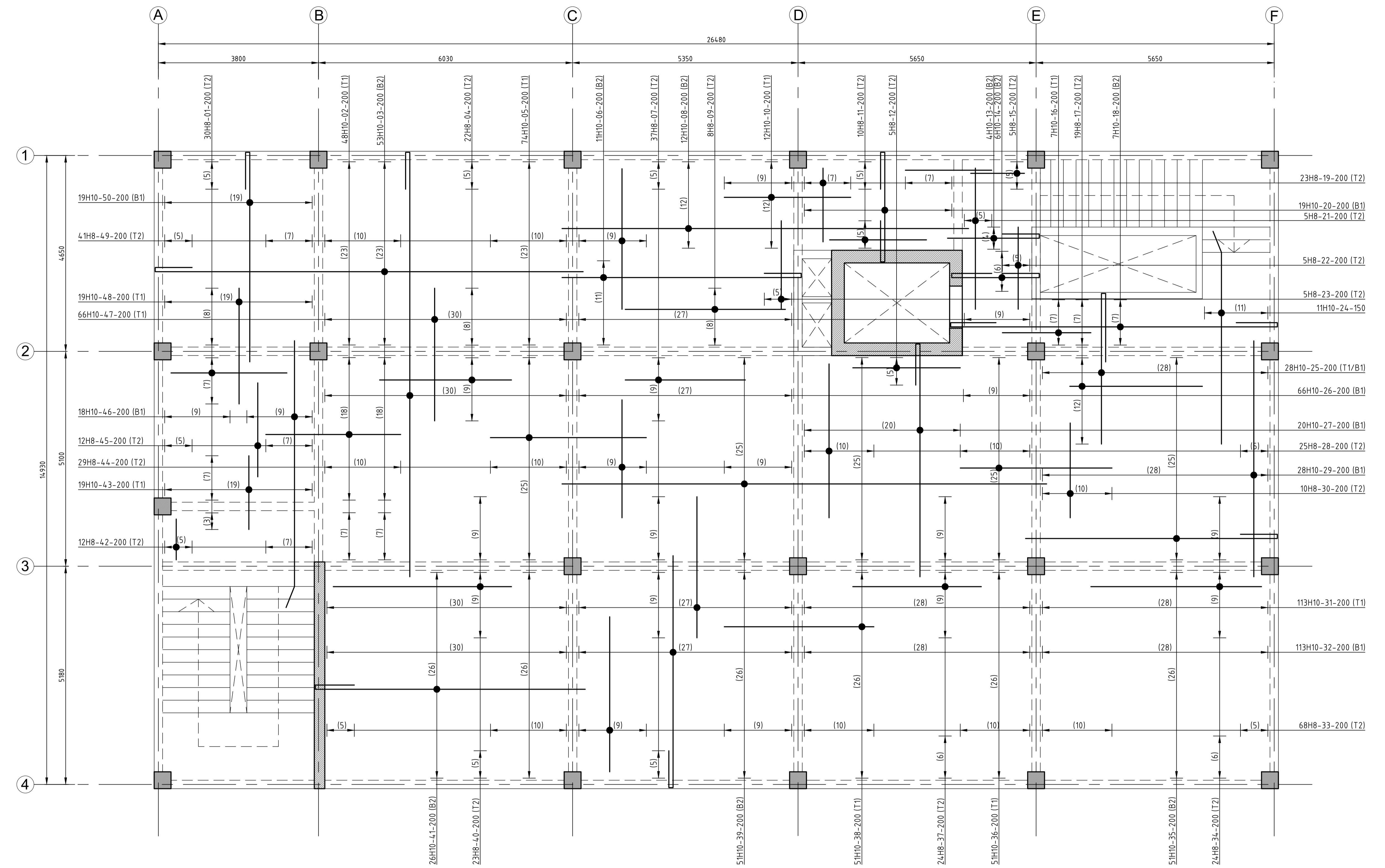
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

CHECKED BY : ENG. E. GORO **16/03/2024**

SCALE : 1:40

DWG NO. 19/24

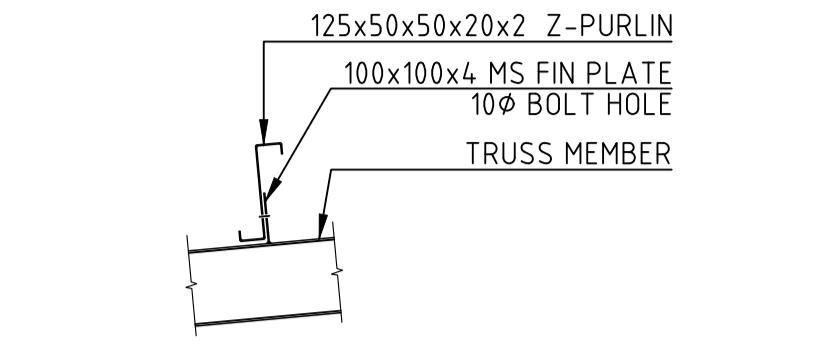
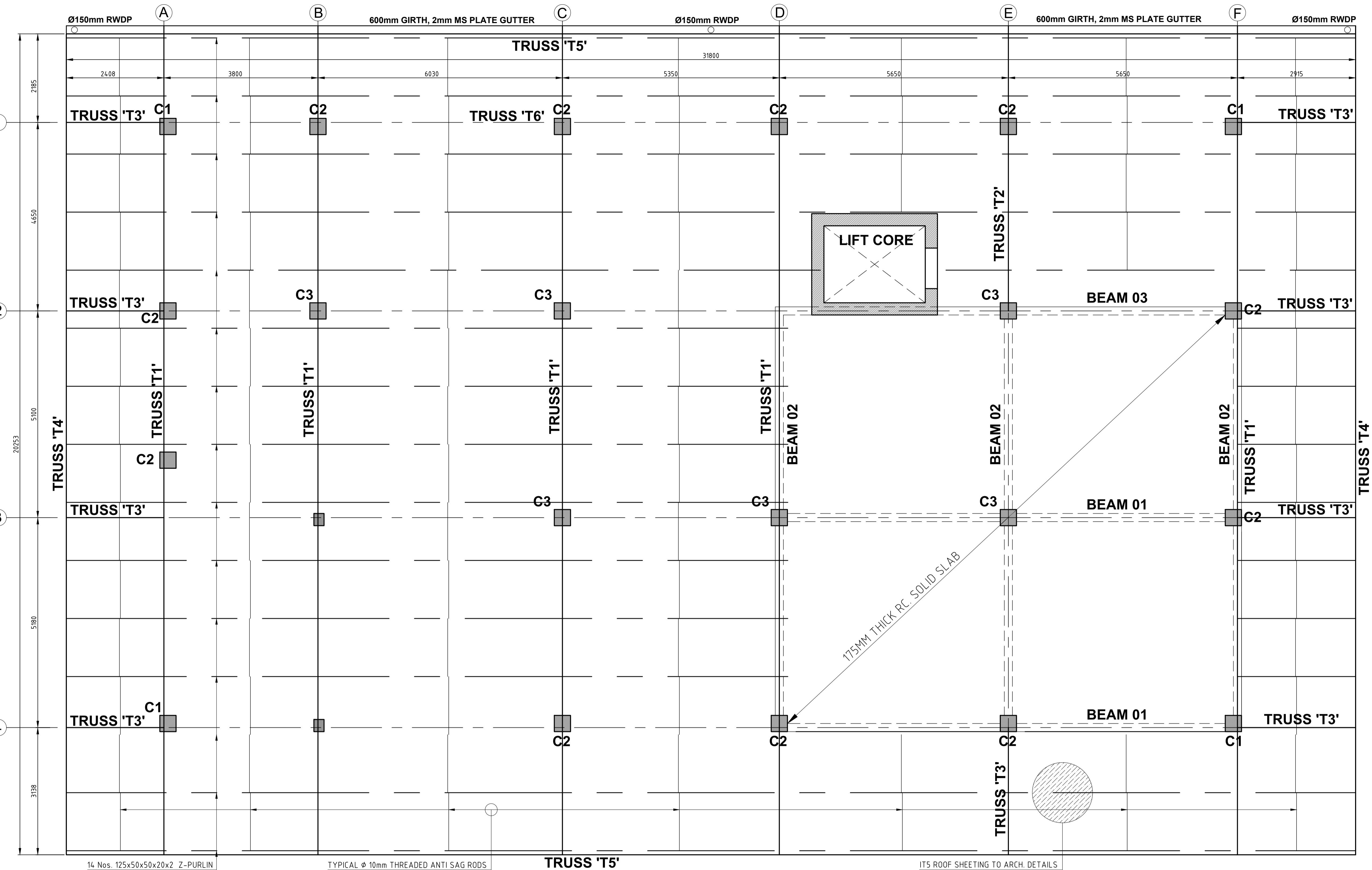


NOTES

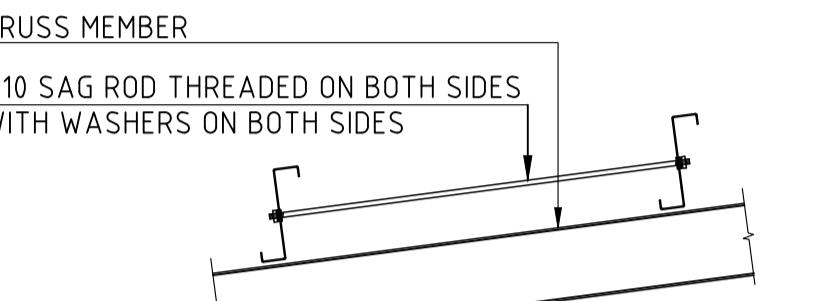
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. SLAB CONCRETE CLASS IS C25/30.
15. SLAB CONCRETE COVER TO REINFORCEMENT IS 25MM.
16. THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK
CLIENT: ALY AND KHALID
DAHYA

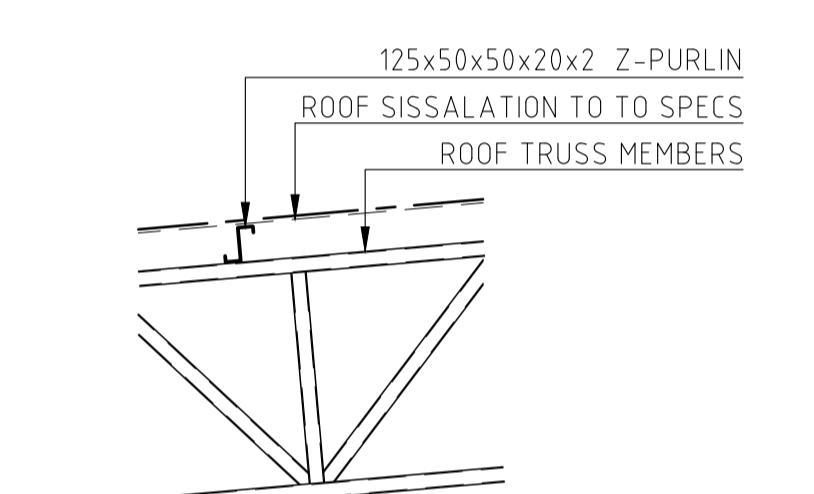
FIFTH FLOOR REINFORCEMENT DETAILS
DRAWN BY : MUIRURI CEPHAS NJENGA
REG. NO. : F16/136471/2019
CHECKED BY : ENG. E. GORO **17/03/2024**
SCALE : 1:50 **DWG NO. 20/24**



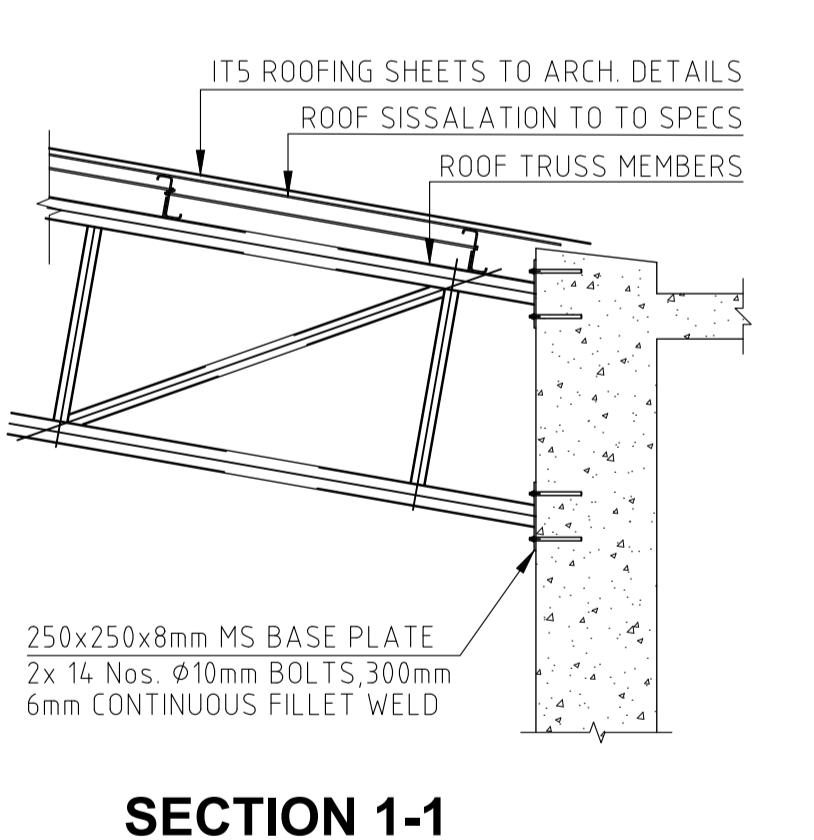
PURLIN CONNECTION DETAIL
SCALE 1:15



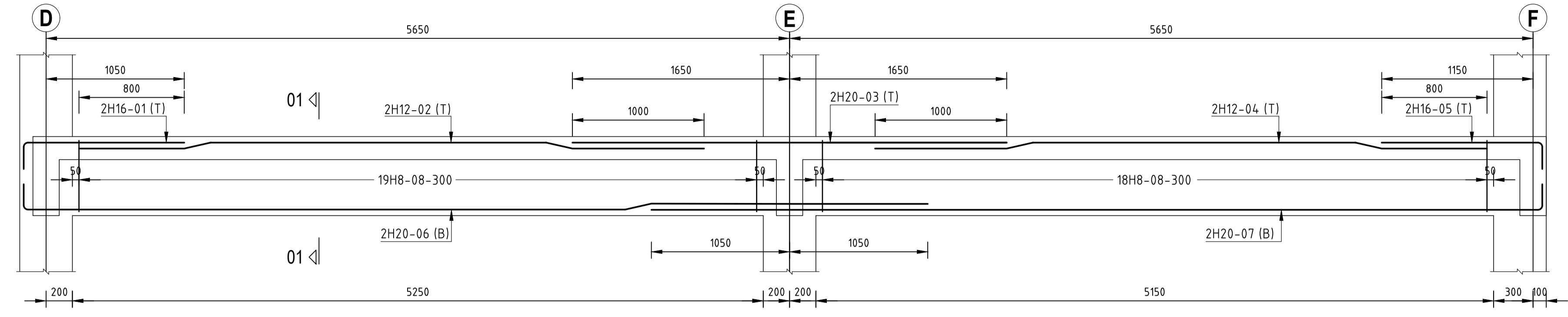
TYPICAL SAG ROD DETAIL
SCALE 1:15



TYP. ROOF SECTION
SCALE 1:25

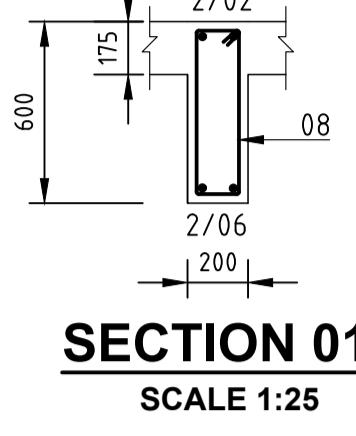


SECTION 1-1
SCALE 1:25



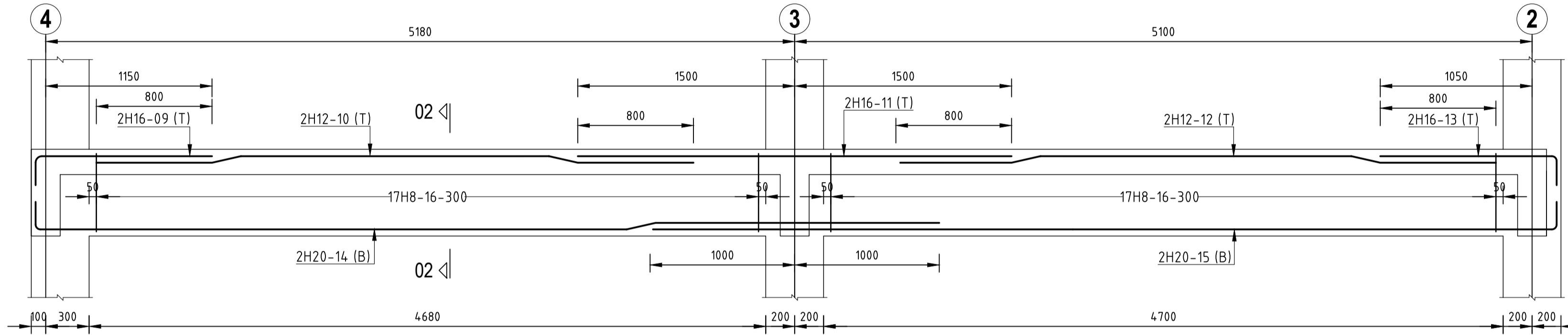
BEAM 01 200x600

SCALE 1:25



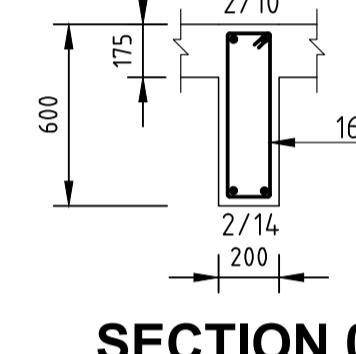
SECTION 01-01

SCALE 1:25



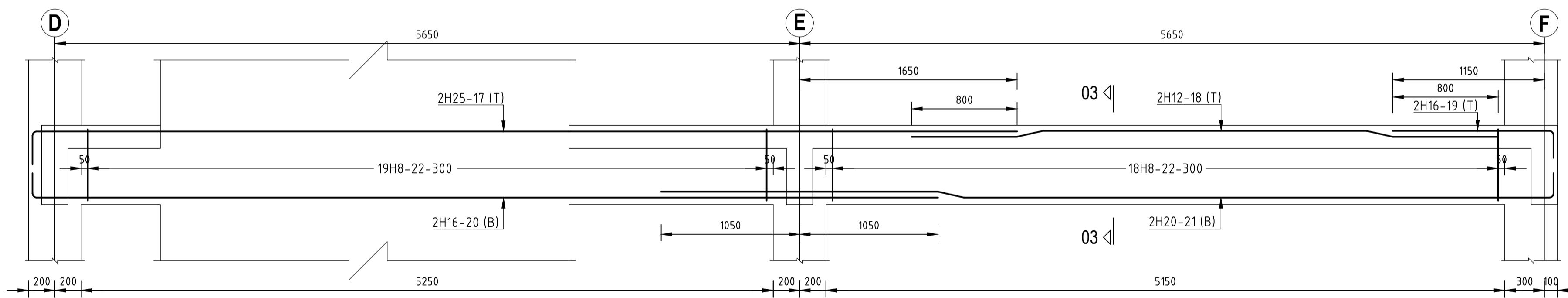
BEAM 02 200x600

SCALE 1:25



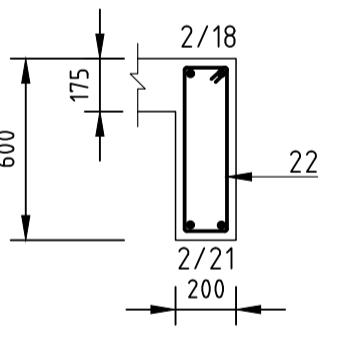
SECTION 02-02

SCALE 1:25



BEAM 03 200x600

SCALE 1:25



SECTION 03-03

SCALE 1:25

NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
- IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
- ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
- THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
- ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
- FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
- DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
- MAXIMUM AGGREGATE SIZE IS 20MM.
- BEARING CAPACITY IS 350kN/m².
- HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
- HARDCORE TO BE HAND PACKED AND COMPAKTED TO ENGINEER'S SATISFACTION.
- MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
- BEAM CONCRETE CLASS IS C25/30.
- BEAM CONCRETE COVER TO REINFORCEMENT IS 30MM.
- THE FOLLOWING ABBREVIATIONS WERE USED:
- T - TOP. - B - BOTTOM.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

ROOF BEAM REINFORCEMENT DETAILS

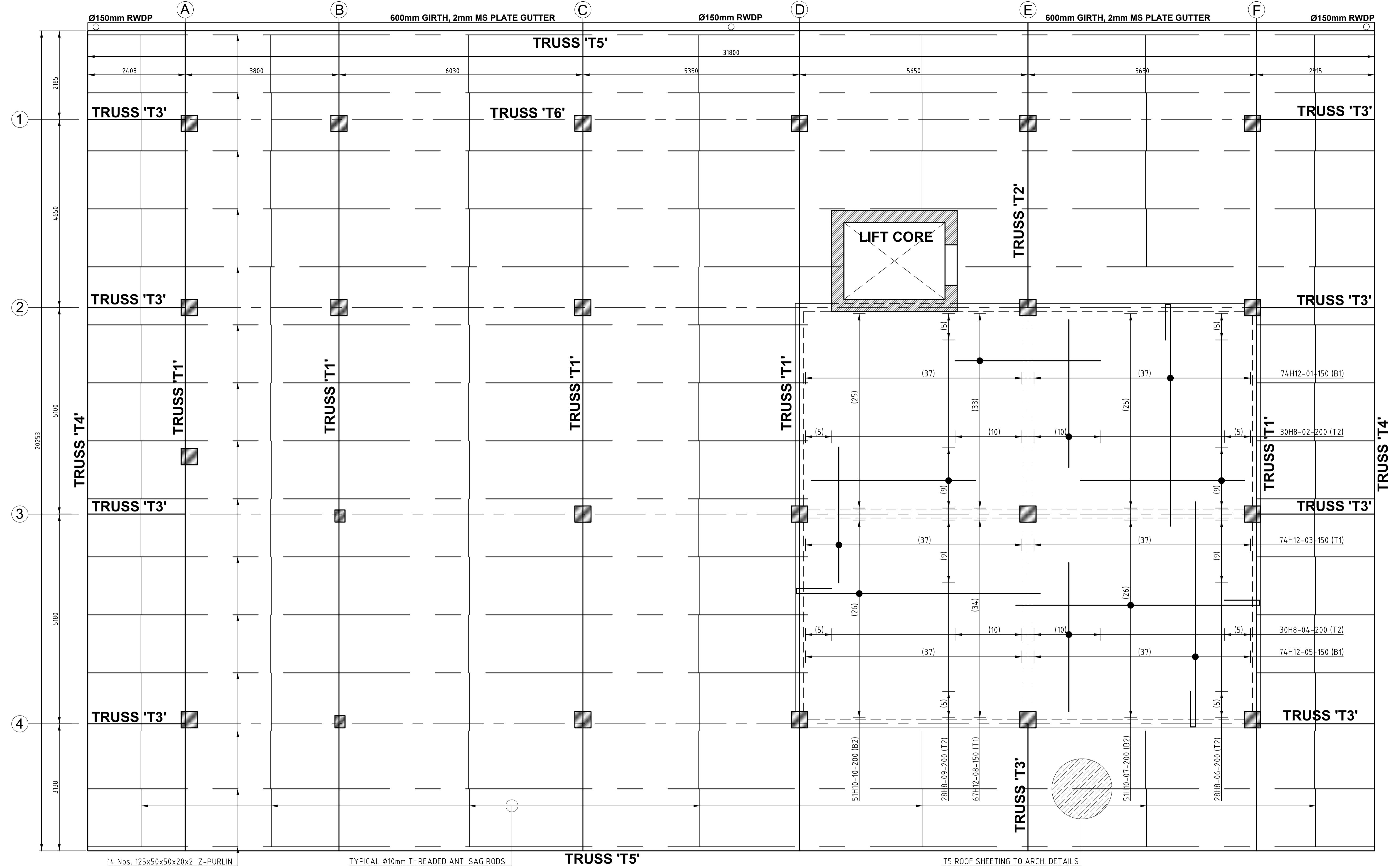
DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

CHECKED BY : ENG. E. GORO 19/03/2024

SCALE : 1:25

DWG NO. 22/24



NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. MAXIMUM AGGREGATE SIZE IS 20MM.
8. BEARING CAPACITY IS 350kN/mm².
9. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
10. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
11. TRUSS SECTION SIZE TO BE USED IS 50X50X3 SQUARE HOLLOW SECTION OF STEEL GRADE S275.
12. "Z" PURLINS OF SECTION SIZE 125X50X50X20X2 TO BE USED.
13. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
14. SLAB CONCRETE CLASS IS C25/30.
15. SLAB CONCRETE COVER TO REINFORCEMENT IS 25MM.
16. ABBREVIATIONS USED ARE:
 - T - TOP. - B - BOTTOM. - MS - MILD STEEL.
 - RWDP - RAINWATER DOWN PIPE.

PROJECT: **STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK**

CLIENT: **ALY AND KHALID
DAHYA**

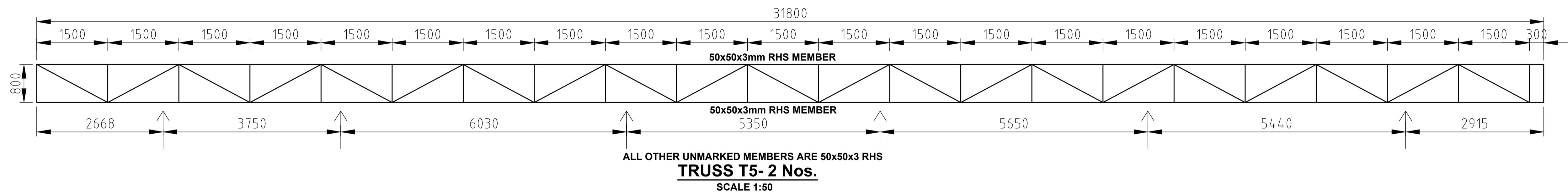
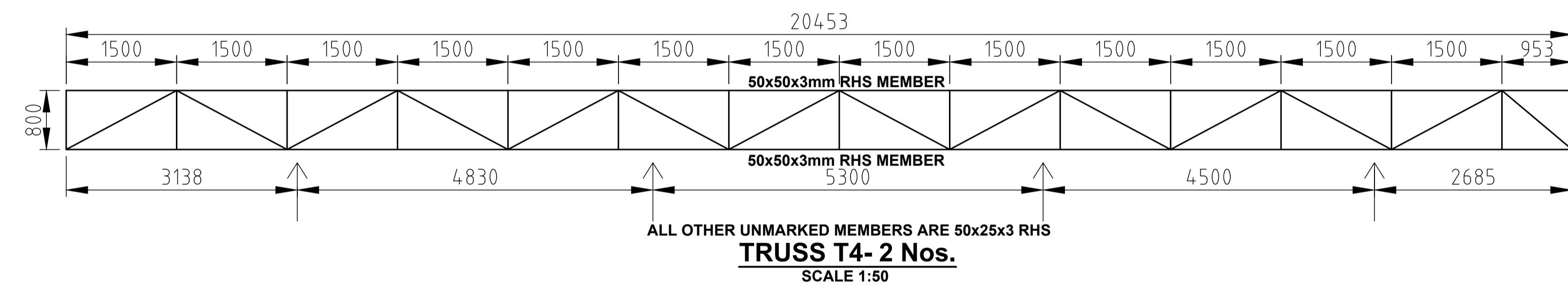
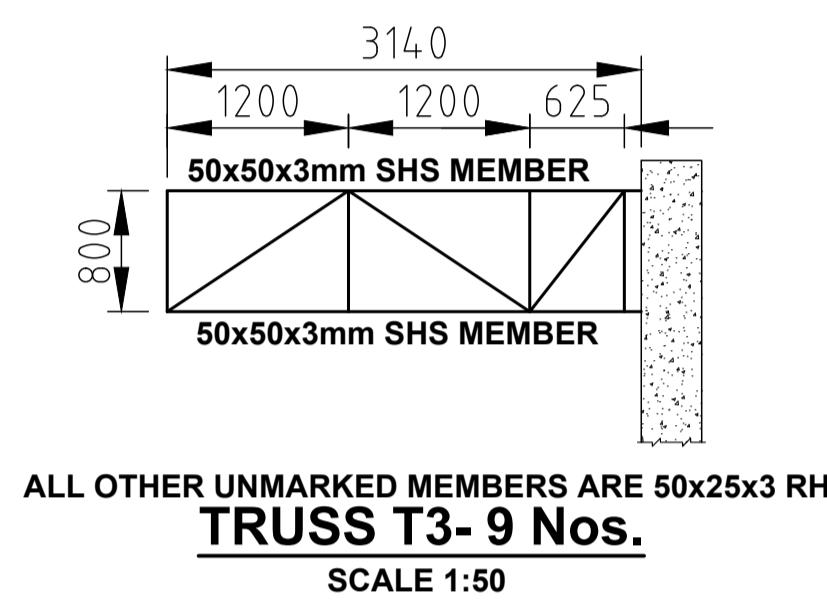
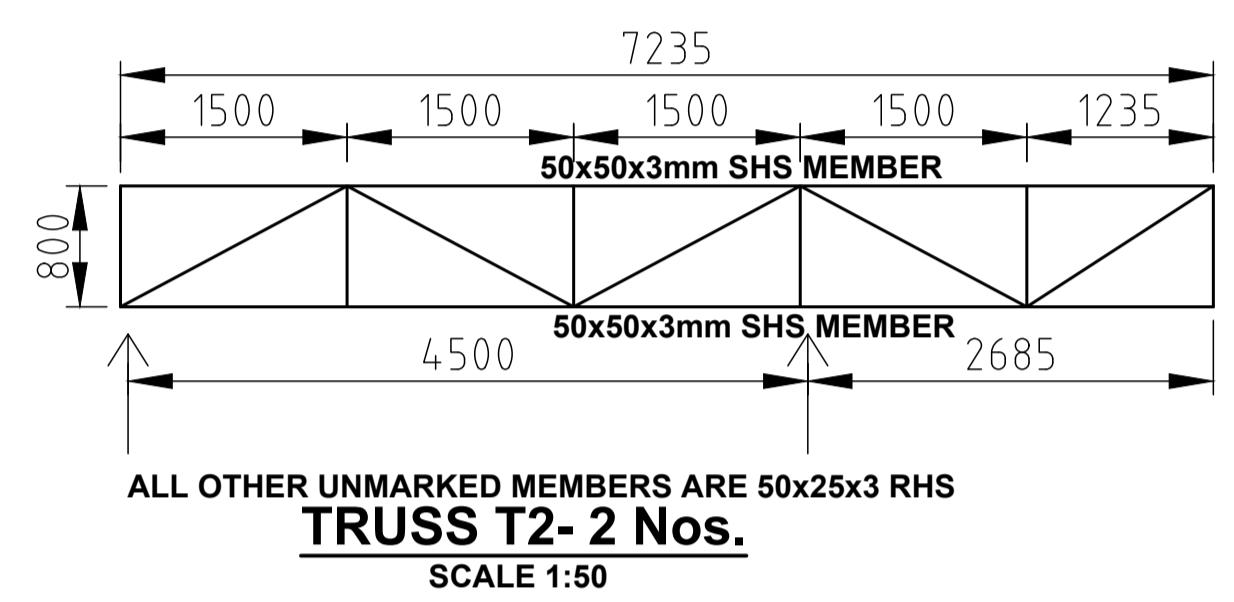
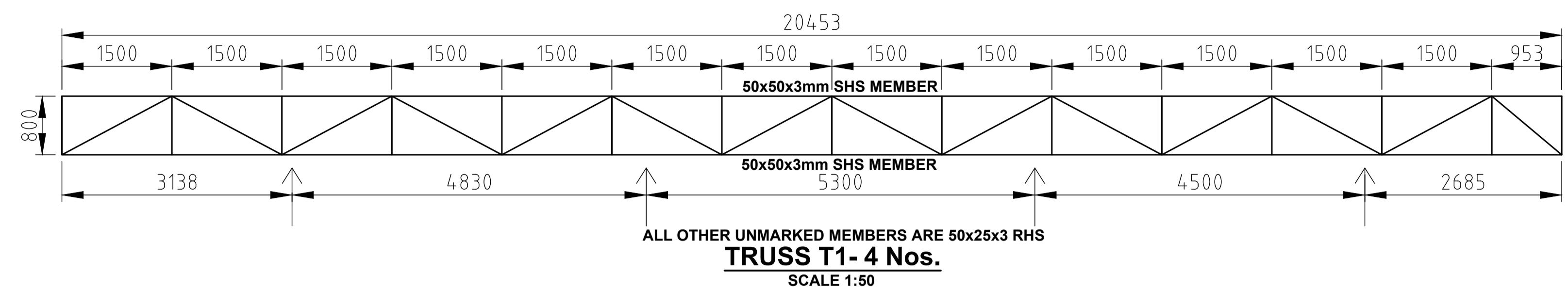
ROOF LEVEL REINFORCEMENT DETAILS

DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

CHECKED BY : ENG. E. GORO | 19/03/2024

SCALE : 1:50 | DWG NO. 23/24



NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH OTHER STRUCTURAL AND ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS, UNLESS OTHERWISE STATED, ARE IN MM.
3. IN CASE OF ANY DISCREPANCY CONSULT THE ENGINEER.
4. ALL STRUCTURAL CONCRETE MUST BE SAMPLED AND TESTED FOR COMPLIANCE AND QUALITY CONTROL.
5. THE CONTRACTOR MUST CONFIRM DIMENSIONS ON SITE BEFORE COMMENCEMENT OF ANY CONSTRUCTION WORK.
6. ALL FORMWORK AND STEEL FIXING SHOULD BE INSPECTED BY THE ENGINEER BEFORE CONCRETING.
7. FOUNDATION WORKS SHOULD BE PLACED ON 50MM CONCRETE BLINDING.
8. DAMP PROOF COURSE (DPC) TO BE PLACED UNDER ALL WALLS.
9. MAXIMUM AGGREGATE SIZE IS 20MM.
10. BEARING CAPACITY IS 350kN/m².
11. HIGH TENSILE STEEL REINFORCEMENT BARS "H" OF GRADE 500MPa TO BE USED.
12. TRUSS SECTION SIZE TO BE USED IS 50X50X3 SQUARE HOLLOW SECTION OF STEEL GRADE S275.
13. "Z" PURLINS OF SECTION SIZE 125X50X50X20X2 TO BE USED.
14. MINIMUM REINFORCEMENT LAP LENGTH IS 50 X BAR DIAMETER.
15. THE FOLLOWING ABBREVIATIONS WERE USED:
- RHS - RECTANGULAR HOLLOW SECTION.

PROJECT: STRUCTURAL DESIGN
OF A SIX STOREY
OFFICE BLOCK

CLIENT: ALY AND KHALID
DAHYA

STEEL TRUSS DETAILS

DRAWN BY : MUIRURI CEPHAS NJENGA

REG. NO. : F16/136471/2019

CHECKED BY : ENG. E. GORO 20/03/2024

SCALE : 1:50

DWG NO. 24/24