

PROJECT DRAWINGS

for

Proposed Offices for Kenya Urban Roads Authority

NORTH EASTERN REGION

Garissa County

NOTES

GENERAL NOTES

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- 7 D.p.c. denotes one layer of bituminous felt to be provided under all walls 150mm above G.L.
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- 12 All surface beds to be cast on well compacted and well consolidated filling .
- 13 Depth of foundation trenches to be minimum 600mm below reduced ground level .
- 14 All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS

No.	Date	Revision/Issue

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY
P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN

DATE

PROJECT

Proposed Offices in North Eastern Region,
Garissa County

SITE: L.R. No. _ _ _ _ _

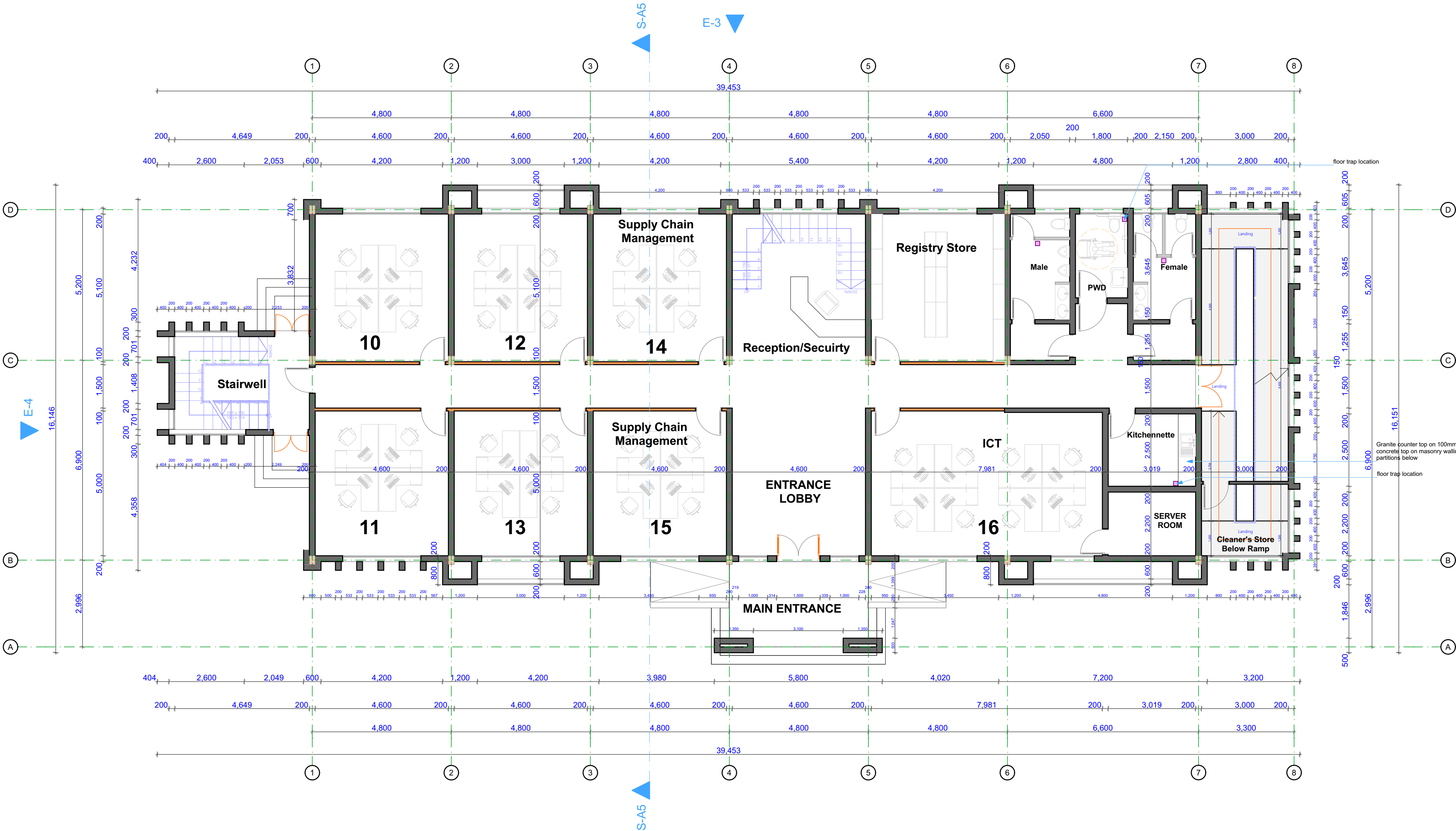
DRAWING TITLE

GROUND FLOOR

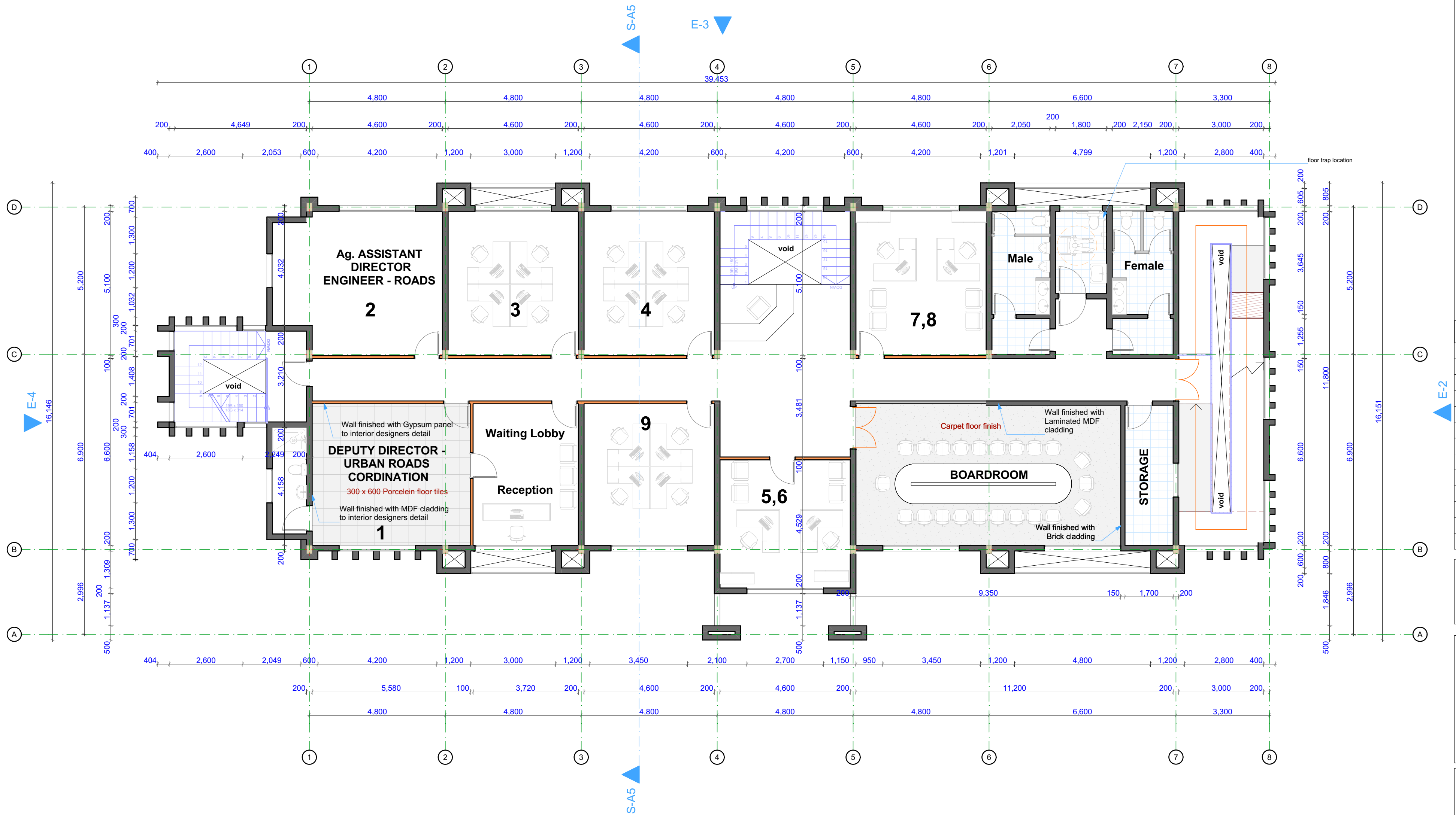
JOB NO

DRG.NO

A100



Ground Floor Plan
Scale 1:100



First Floor Plan
Scale 1:100

NOTES

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P.O. BOX 41727 - 00100

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PROJECT

Proposed Offices in North Eastern Region, Garissa County

SITE: L.R. No.

DRAWING TITLE

FIRST FLOOR

JOB NO

DRG.NO

A101

NOTES

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REVISIONS

[illegible]

ARCHITECT

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PROJECT

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Garissa County

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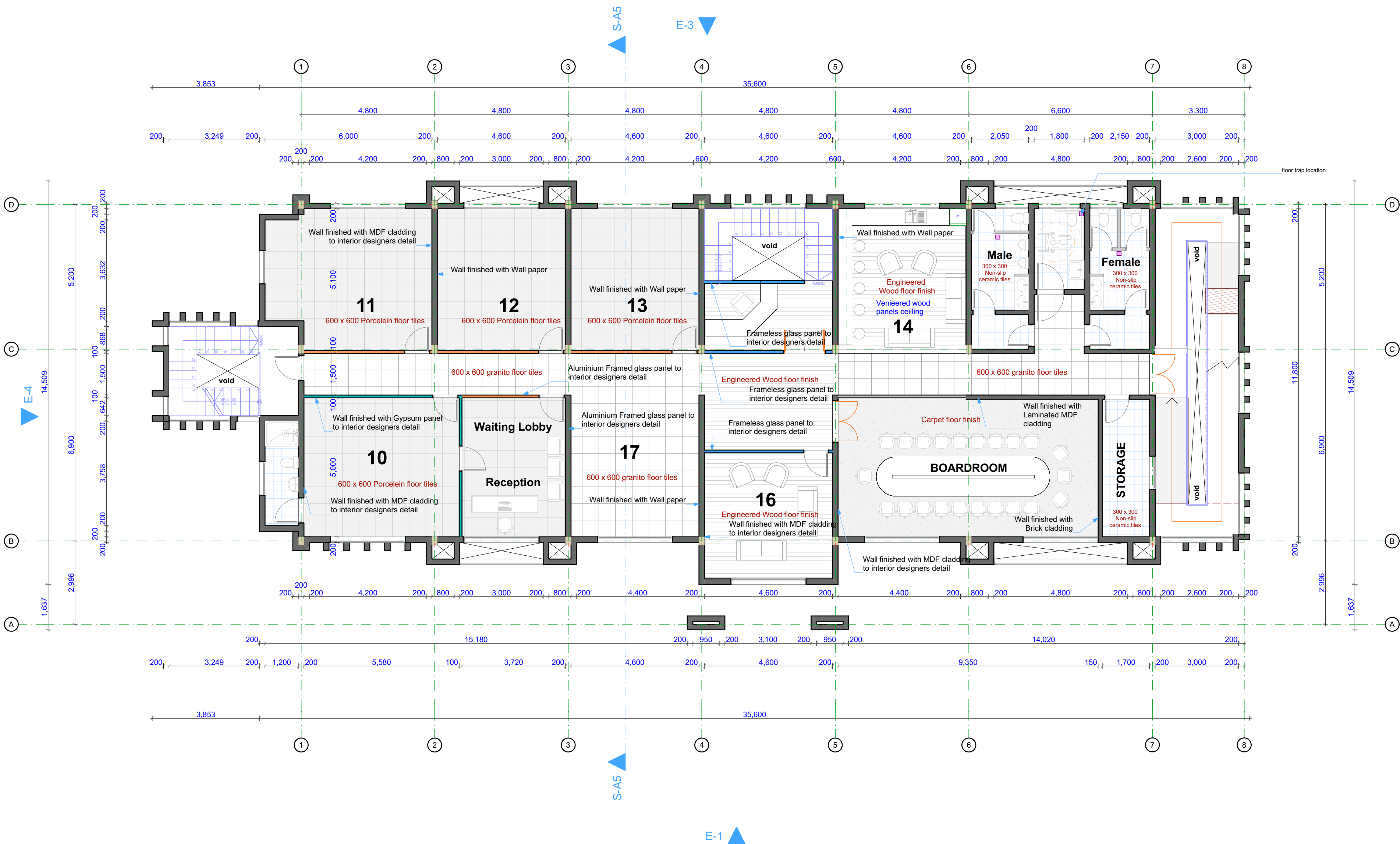
DRAWING TITLE

SECOND FLOOR

JOB NO	DRG.NO
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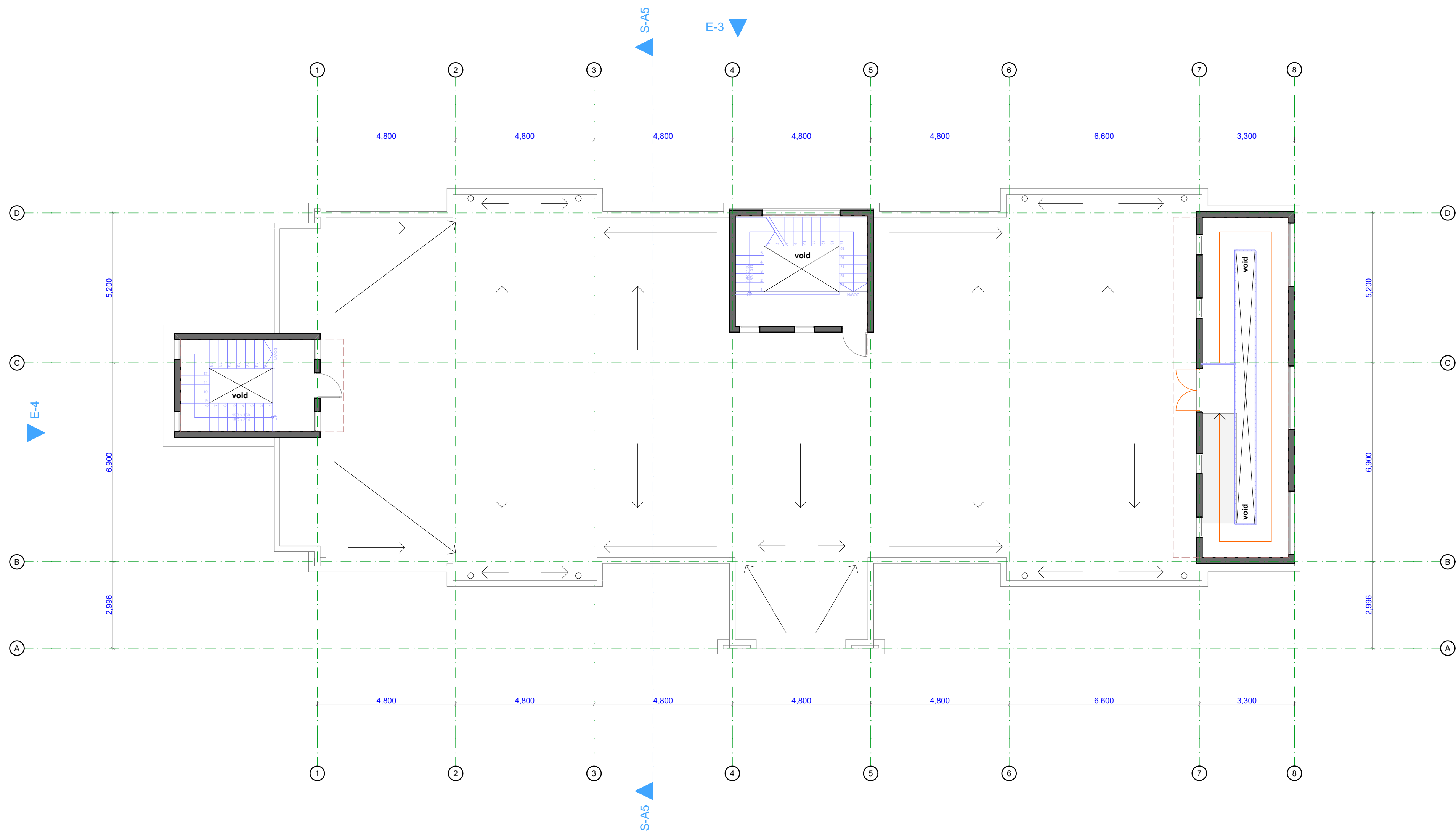
DRG.NO

A102



Second Floor Plan

Scale 1:100



Roof Plan 01
Scale 1:100

NOTES

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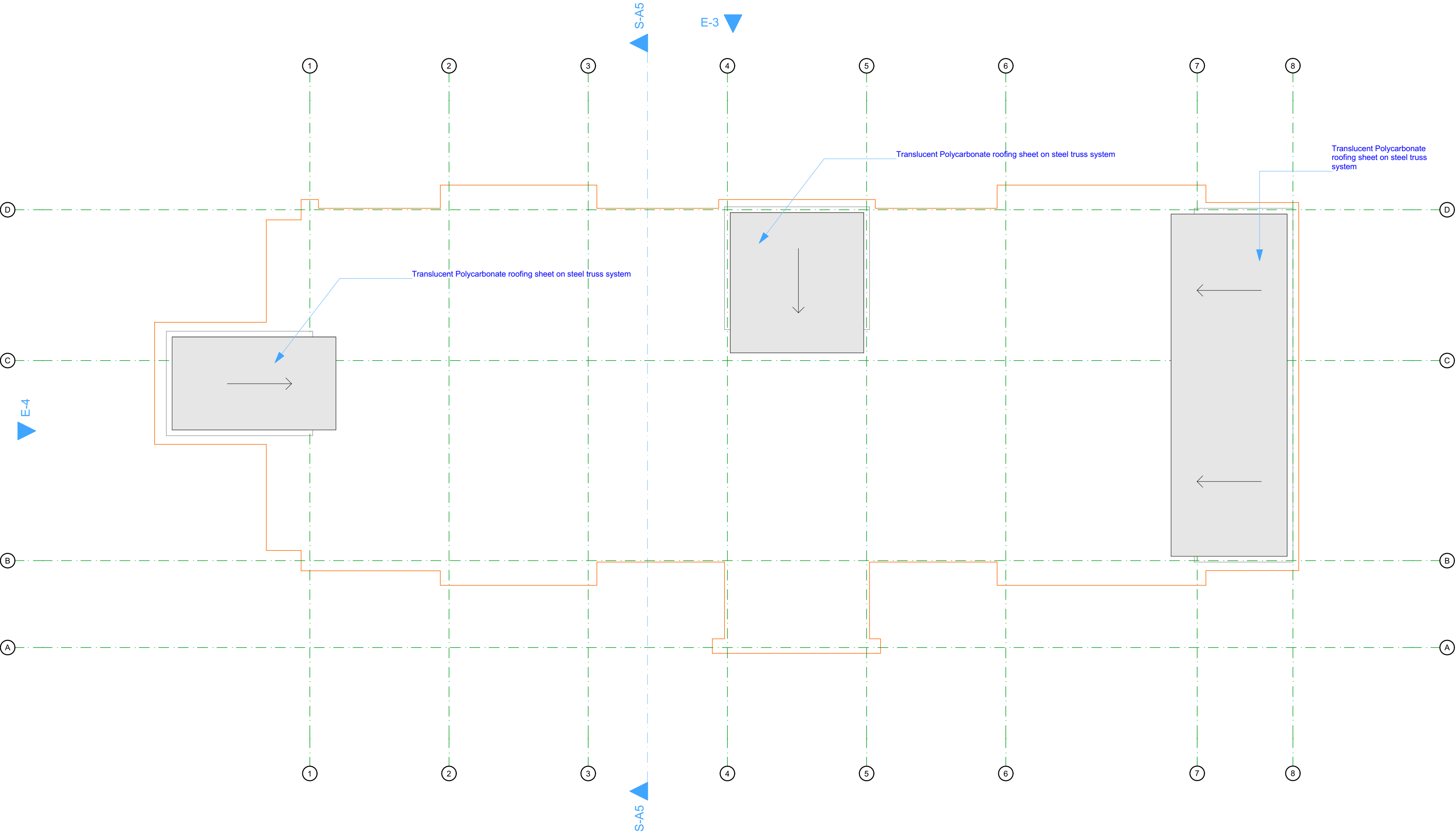
DRAWING TITLE

ROOF FLOOR

JOB NO

DRG.NO

A103



Roof Plan 02
Scale 1:100

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Proposed Offices in North Eastern Region, Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

ROOF FLOOR

JOB NO

DRG.NO

A104



E-1 Elevation (2) 1:100



E-3 Elevation (2) 1:100

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Proposed Offices in North Eastern Region, Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

ELEVATIONS

JOB NO

DRG.NO

A105

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[illegible]

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Garissa County

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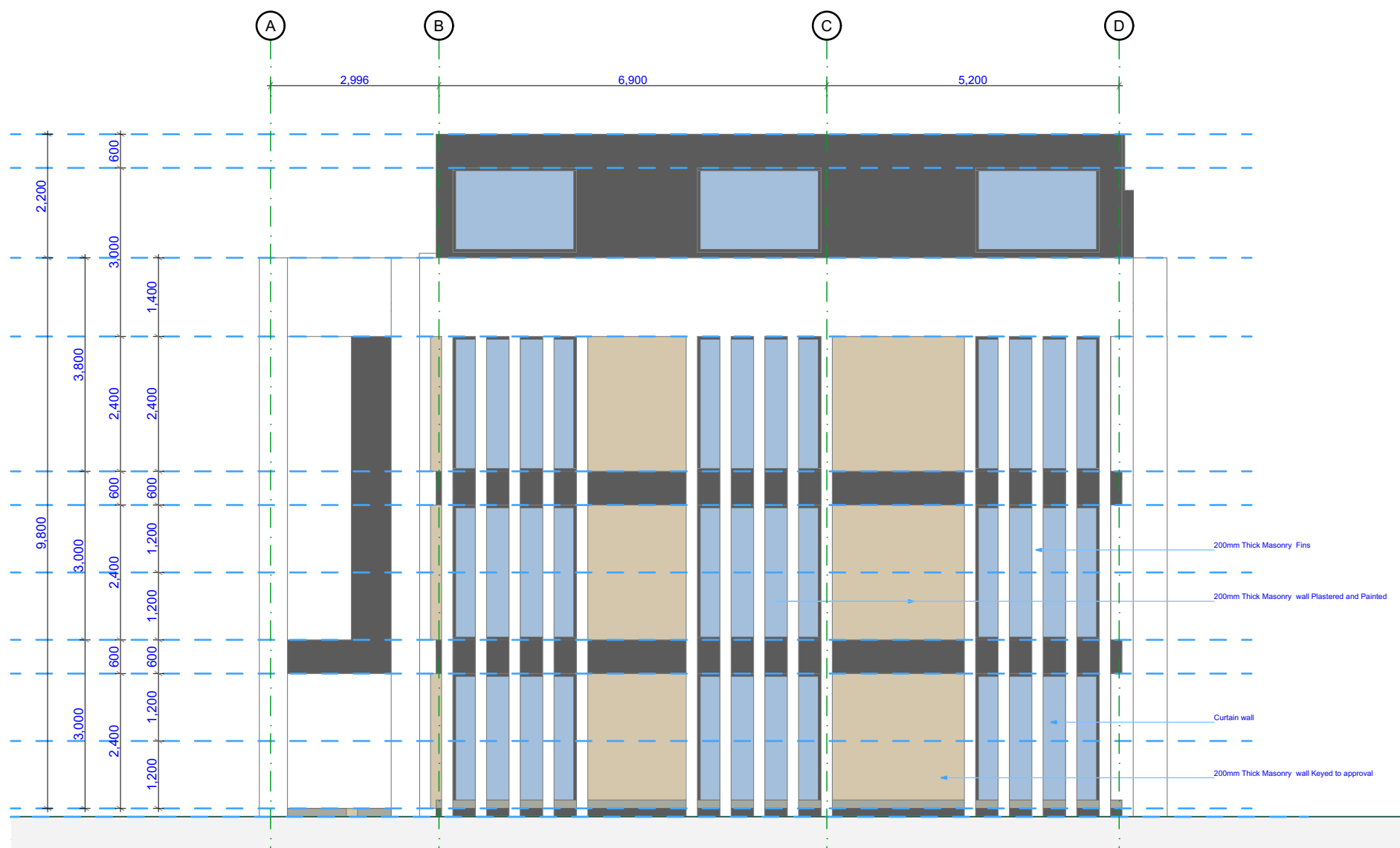
DRAWING TITLE

ELEVATION, SECTION

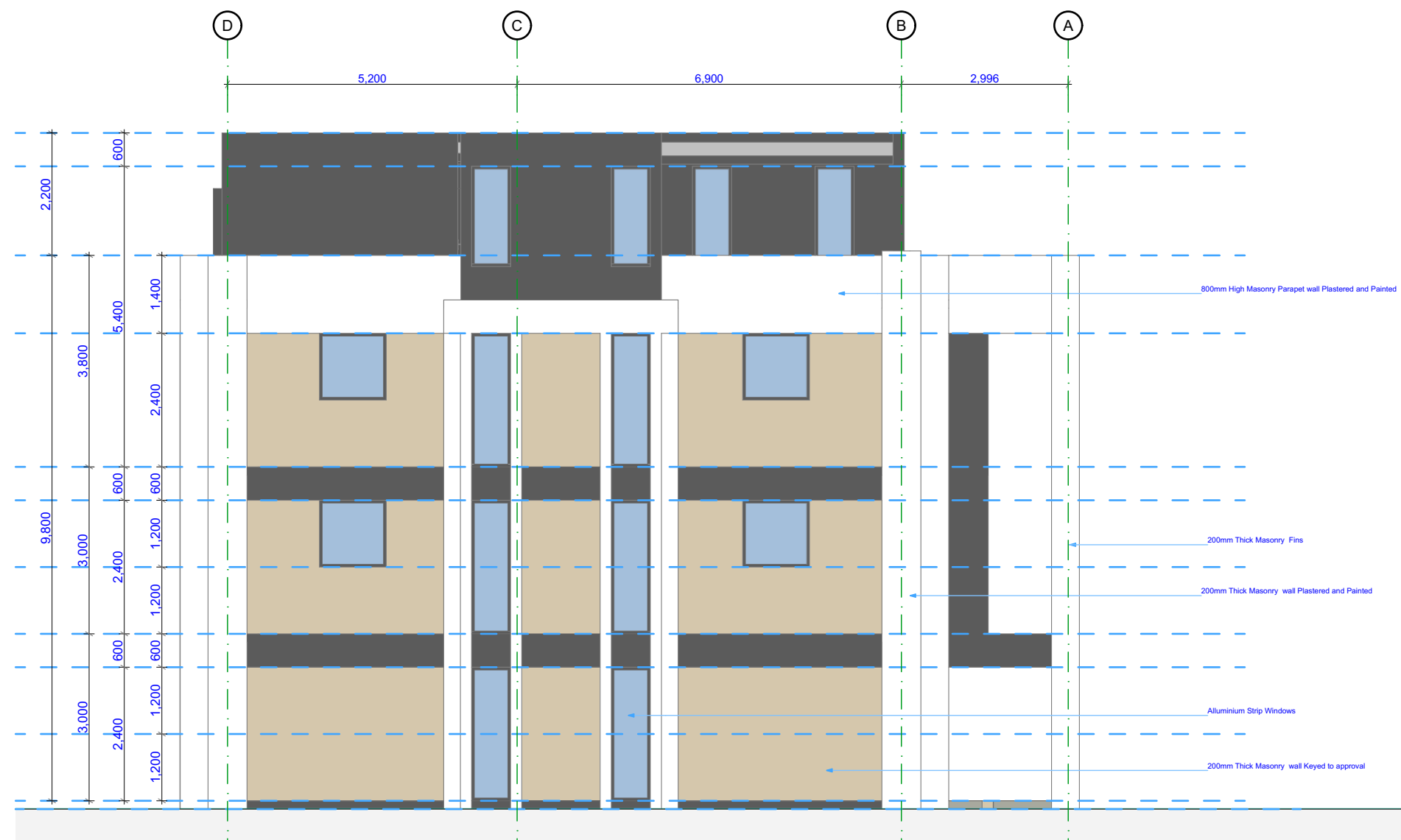
JOB NO	DRG.NO
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DRG.NO

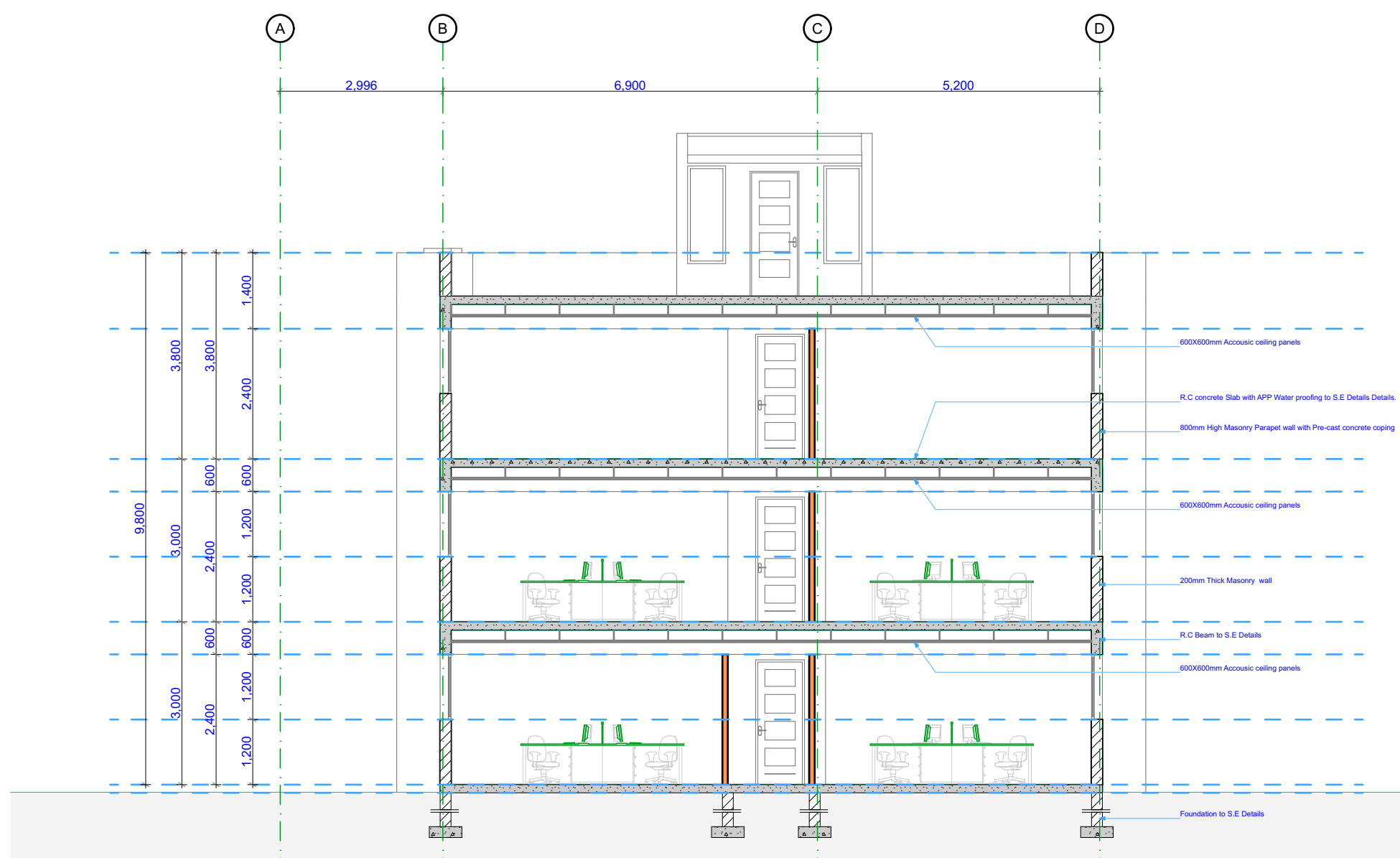
A106



E-2 Elevation (2) 1:100



E-4 Elevation (2) 1:100



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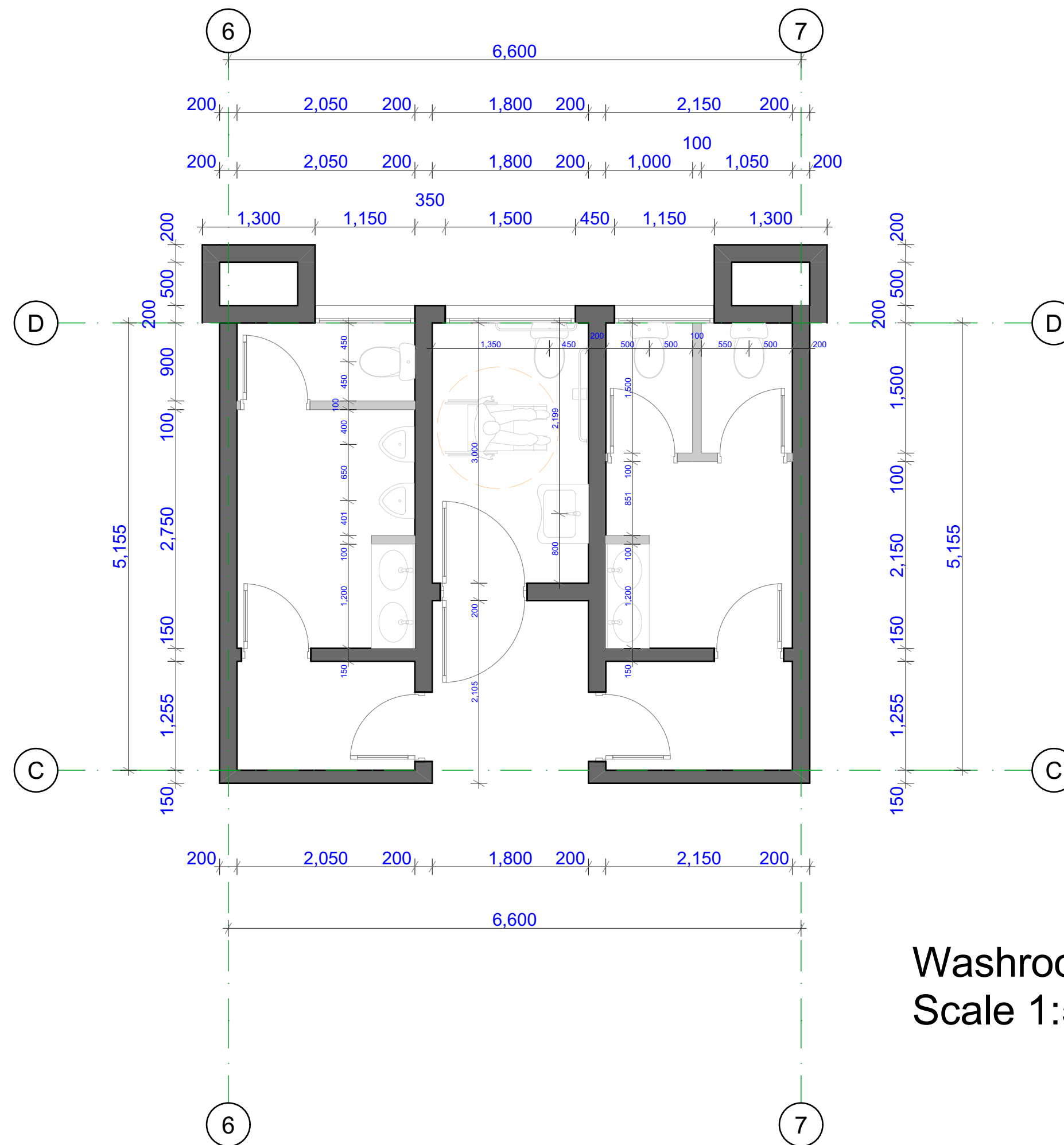
DRAWING TITLE

WASHROOM

JOB NO	DRG.NO
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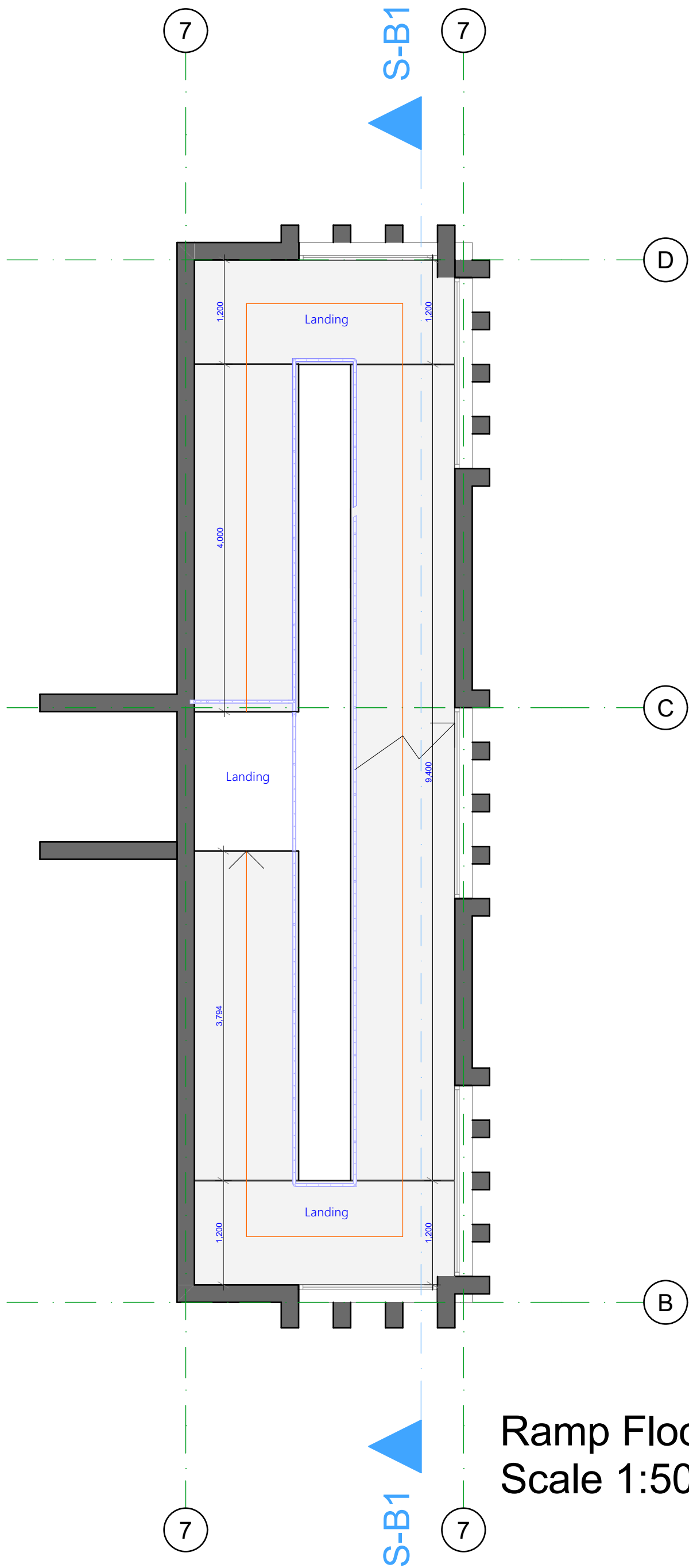
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A107

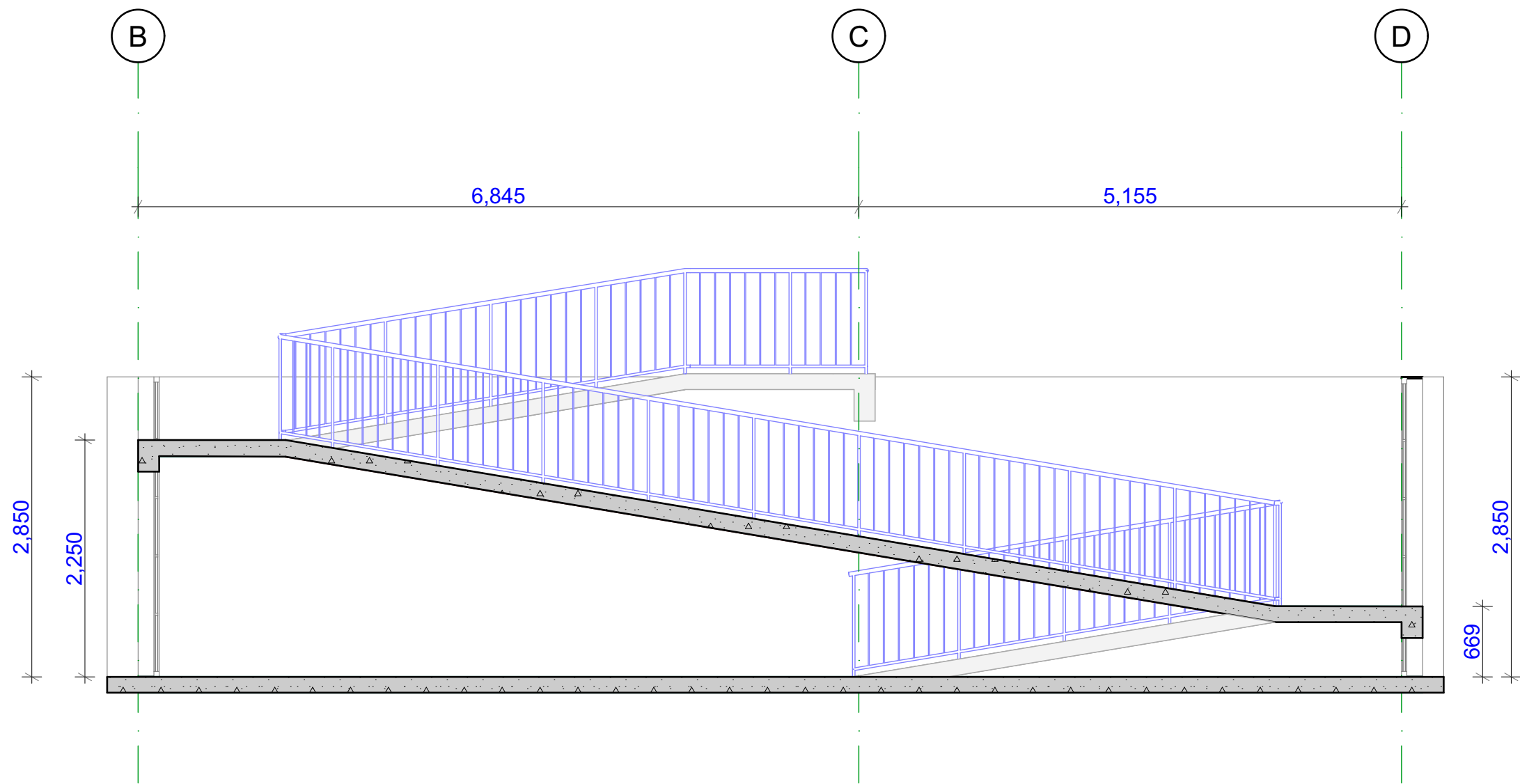


Washrooms Floor Plan

Scale 1:50



Ramp Floor Layout
Scale 1:50



Ramp Section S-B1
Scale 1:50

NOTES

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Proposed Offices in North Eastern Region, Garissa County

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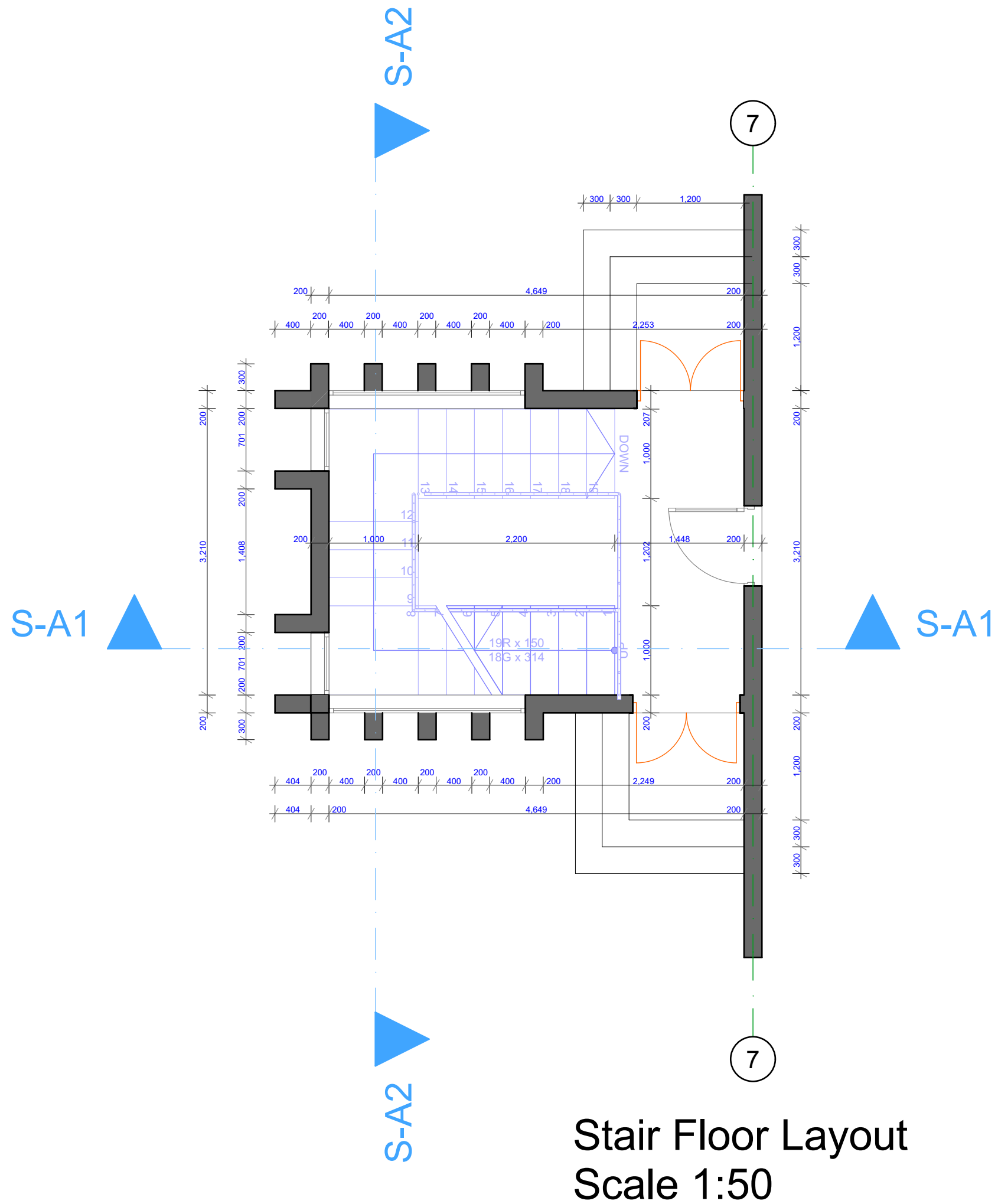
DRAWING TITLE

RAMP

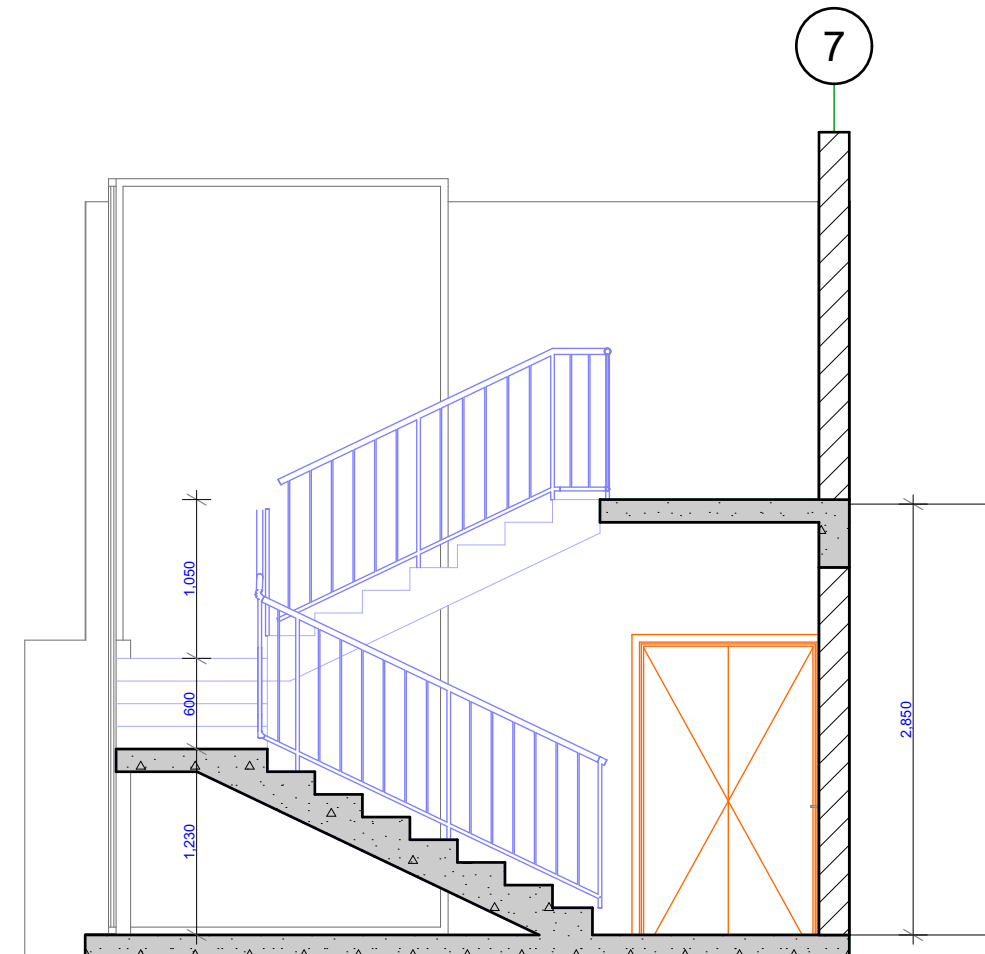
JOB NO

DRG.NO

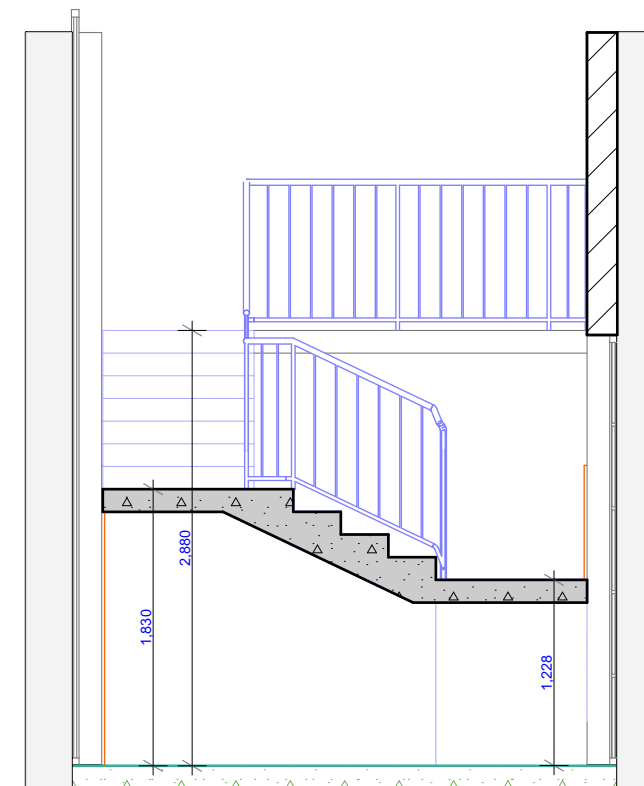
A108



Stair Floor Layout
Scale 1:50



Stair Section S-A1
Scale 1:50



Stair Section S-A2
Scale 1:50

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Proposed Offices in North Eastern Region,
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SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

STAIR

JOB NO

DRG.NO

A109



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Proposed Offices in North Eastern Region,
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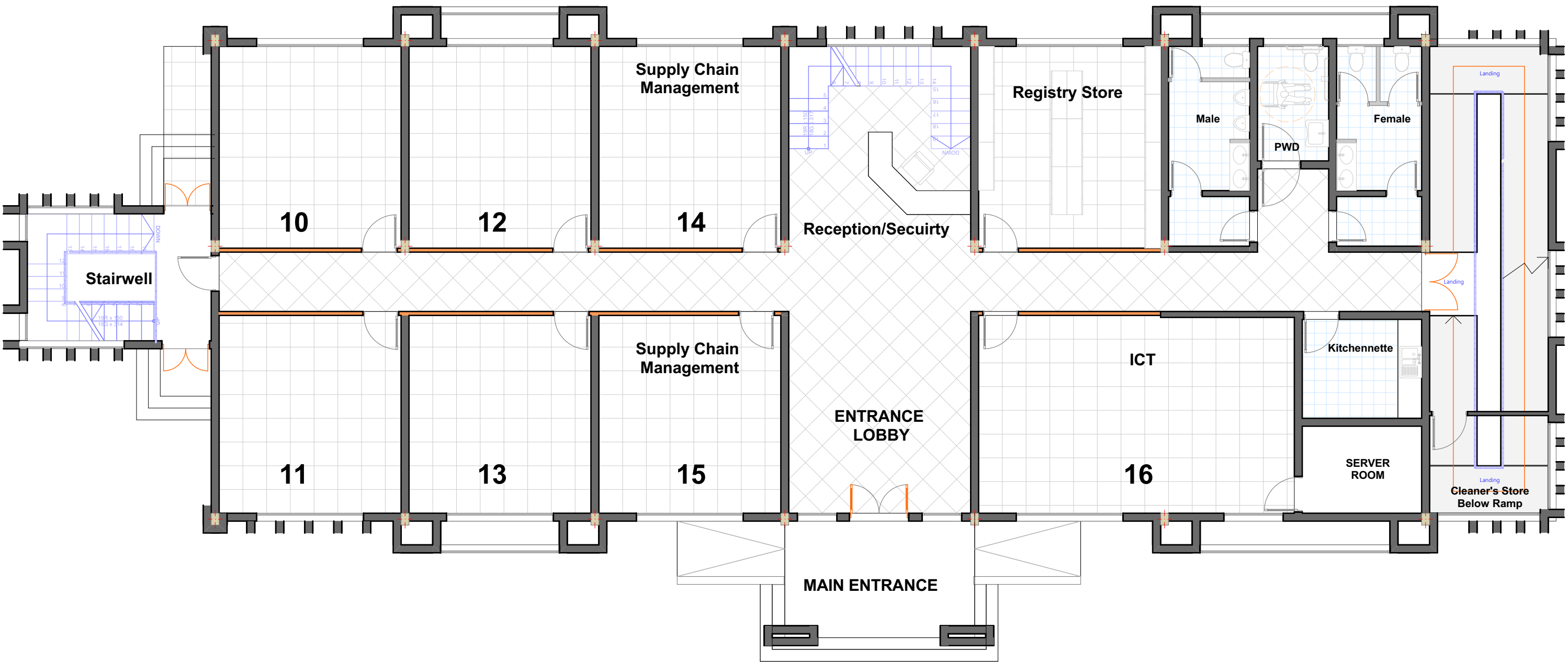
DRAWING TITLE

JOB NO

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A110

TILING LAYOUT



Ground Floor Plan
Scale 1:100

NOTES

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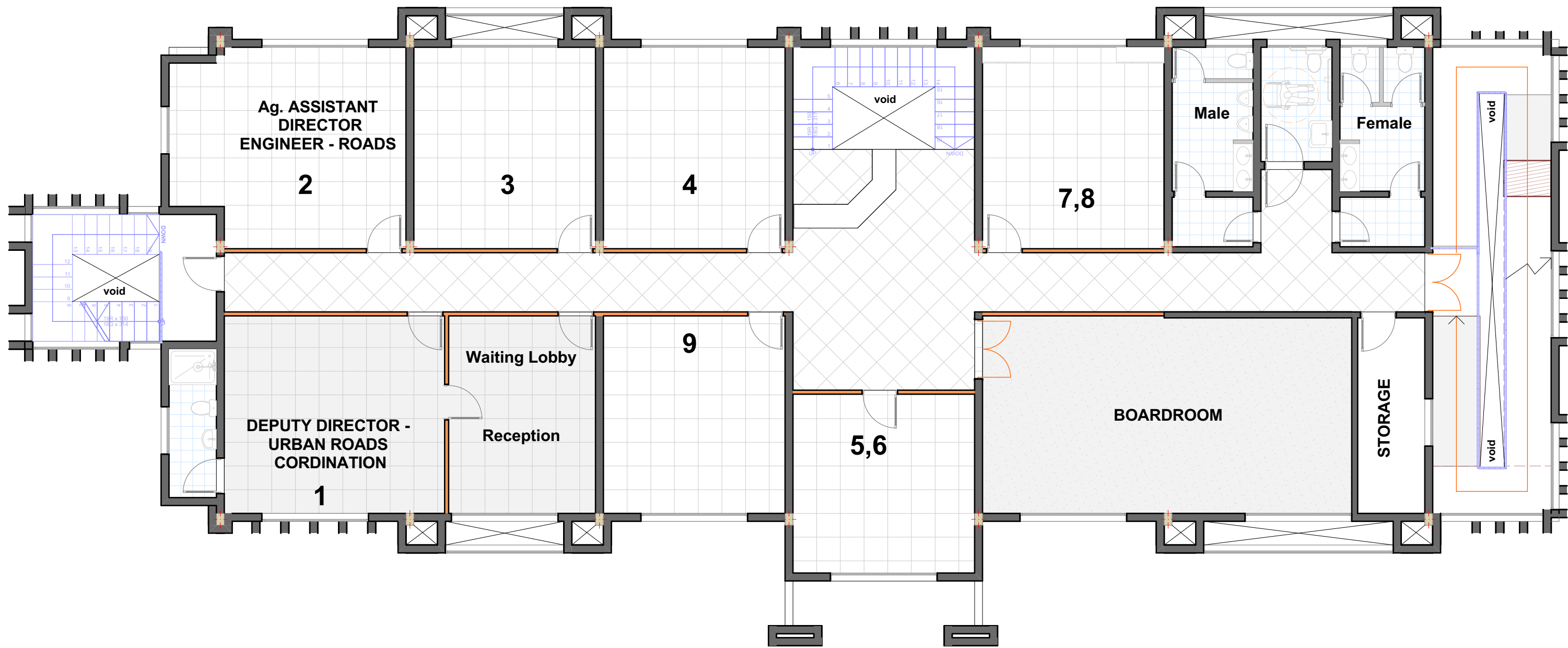
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GROUND FLOOR

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A111



First Floor Plan
Scale 1:100

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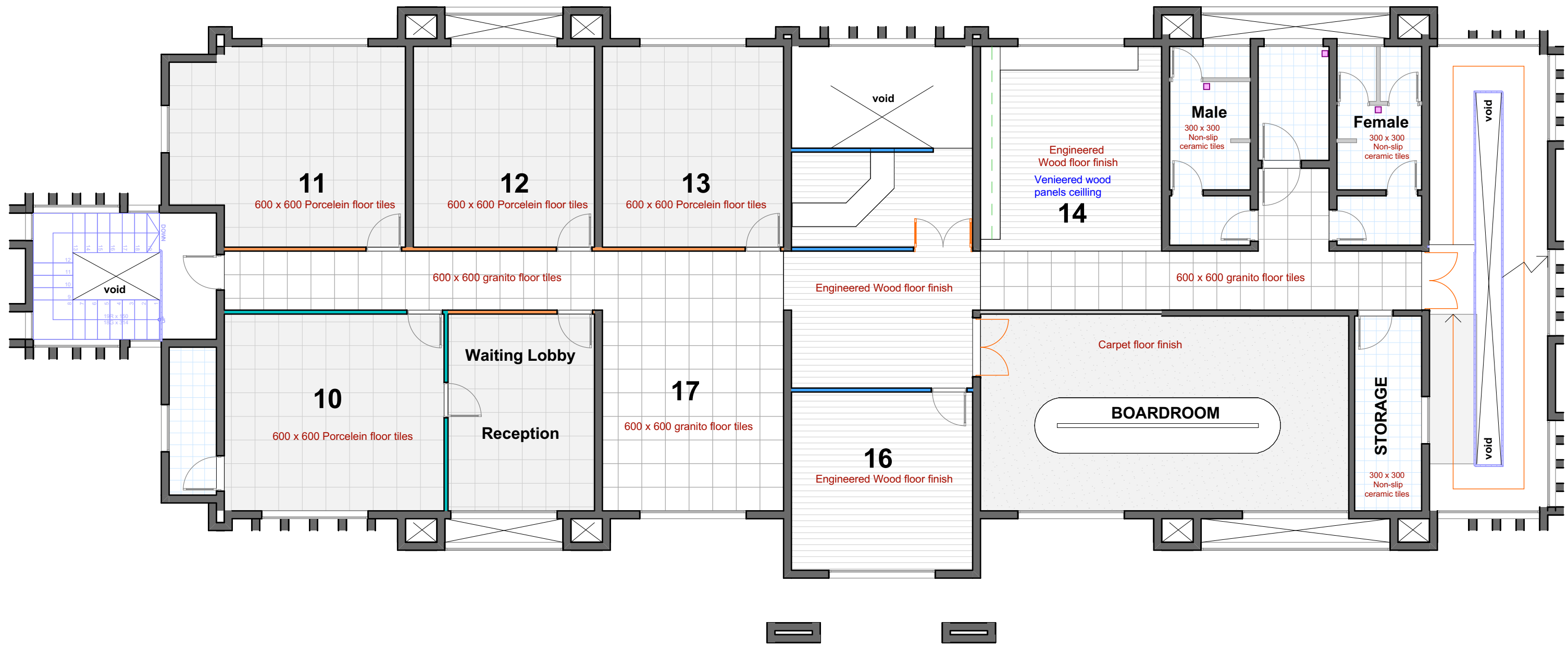
DRAWING TITLE

FIRST FLOOR

JOB NO

DRG.NO

A112



Second Floor Plan
Scale 1:100

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SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

SECOND FLOOR

JOB NO

DRG.NO

A113

OPENING SCHEDULES

NOTES

GENERAL NOTES

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- 3 All construction work is to comply with the latest K.B.S. standard codes of practice , Local Authority By-Laws, and Fire regulations .
- 4 P.V. denotes permanent ventilation and must be provided above all doors and windows where indicated or shown
- 5 All walls less than 200mm thick to be reinforced with hoop iron at every alternate course
- 6 Water Meter to be 300mm above G.L.
- 7 D.p.c. denotes one layer of bituminous felt to be provided under all walls 150mm above G.L.
- 8 All R.C. works to structural engineer's details.
- 9 Provide 1 row of 600x600x50mm precast conc paving slabs around the building unless otherwise shown .
- 10 Contractors must verify all dimensions and levels on site before commencing work . Any discrepancies must be reported to the architect before work is put in hand .
- 11 All levels shown are finished levels unless otherwise stated.
- 12 All surface beds to be cast on well compacted and well consolidated filling .
- 13 Depth of foundation trenches to be minimum 600mm below reduced ground level .
- 14 All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS

No.	Date	Revision/Issue

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY
P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN _____

DATE _____

PROJECT

Proposed Offices in North Eastern Region,
Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

GROUND FLOOR

JOB NO

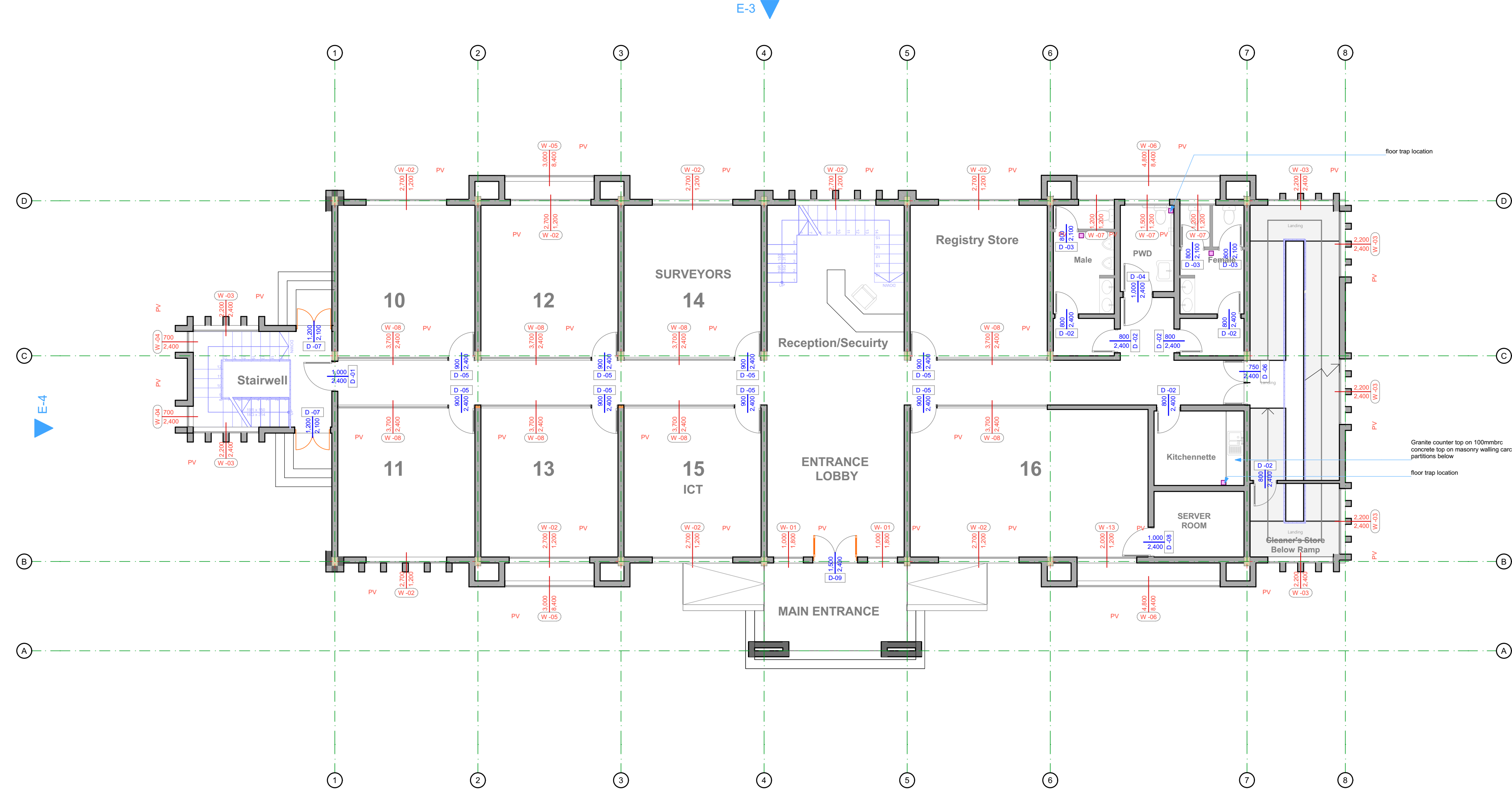
DRG.NO

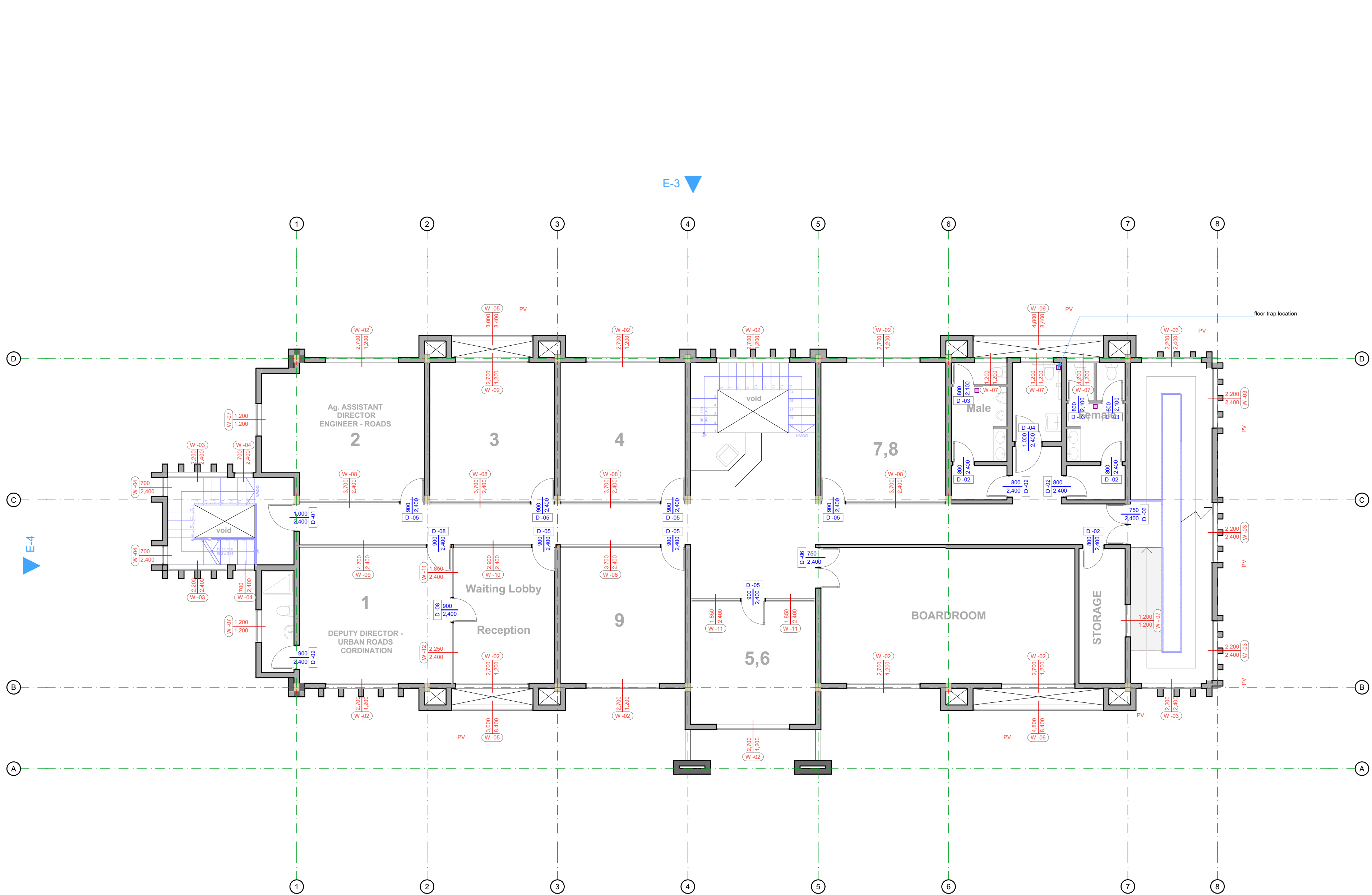
B100

E-3

E-1

Ground Floor Plan
Scale 1:100





NOTES

- GENERAL NOTES**
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 - 4 P.V. denotes permanent ventilation and must be provided above all doors and windows where indicated or shown
 - 5 All walls less than 200mm thick to be reinforced with hoop iron at every alternate course
 - 6 Water Meter to be 300mm above G.L.
 - 7 D.p.c. denotes one layer of bituminous felt to be provided under all walls 150mm above G.L.
 - 8 All R.C. works to structural engineer's details.
 - 9 Provide 1 row of 600x600x50mm precast conc paving slabs around the building unless otherwise shown .
 - 10 Contractors must verify all dimensions and levels on site before commencing work . Any discrepancies must be reported to the architect before work is put in hand .
 - 11 All levels shown are finished levels unless otherwise stated.
 - 12 All surface beds to be cast on well compacted and well consolidated filling .
 - 13 Depth of foundation trenches to be minimum 600mm below reduced ground level .
 - 14 All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS

No.	Date	Revision/Issue

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY

P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN

DATE

PROJECT

Proposed Offices in North Eastern Region, Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

FIRST FLOOR

JOB NO

DRG.NO

B101

First Floor Plan
Scale 1:100

NOTES

GENERAL NOTES

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- 3 All construction work is to comply with the latest K.B.S. standard codes of practice , Local Authority By-Laws, and Fire regulations .
- 4 P.V. denotes permanent ventilation and must be provided above all doors and windows where indicated or shown
- 5 All walls less than 200mm thick to be reinforced with hoop iron at every alternate course
- 6 Water Meter to be 300mm above G.L.
- 7 D.p.c. denotes one layer of bituminous felt to be provided under all walls 150mm above G.L.
- 8 All R.C. works to structural engineer's details.
- 9 Provide 1 row of 600x600x50mm precast conc paving slabs around the building unless otherwise shown .
- 10 Contractors must verify all dimensions and levels on site before commencing work . Any discrepancies must be reported to the architect before work is put in hand .
- 11 All levels shown are finished levels unless otherwise stated.
- 12 All surface beds to be cast on well compacted and well consolidated filling .
- 13 Depth of foundation trenches to be minimum 600mm below reduced ground level .
- 14 All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS

No.	Date	Revision/Issue

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY
P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN

DATE

PROJECT

Proposed Offices in North Eastern Region,
Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

SECOND FLOOR

JOB NO

DRG.NO

B102

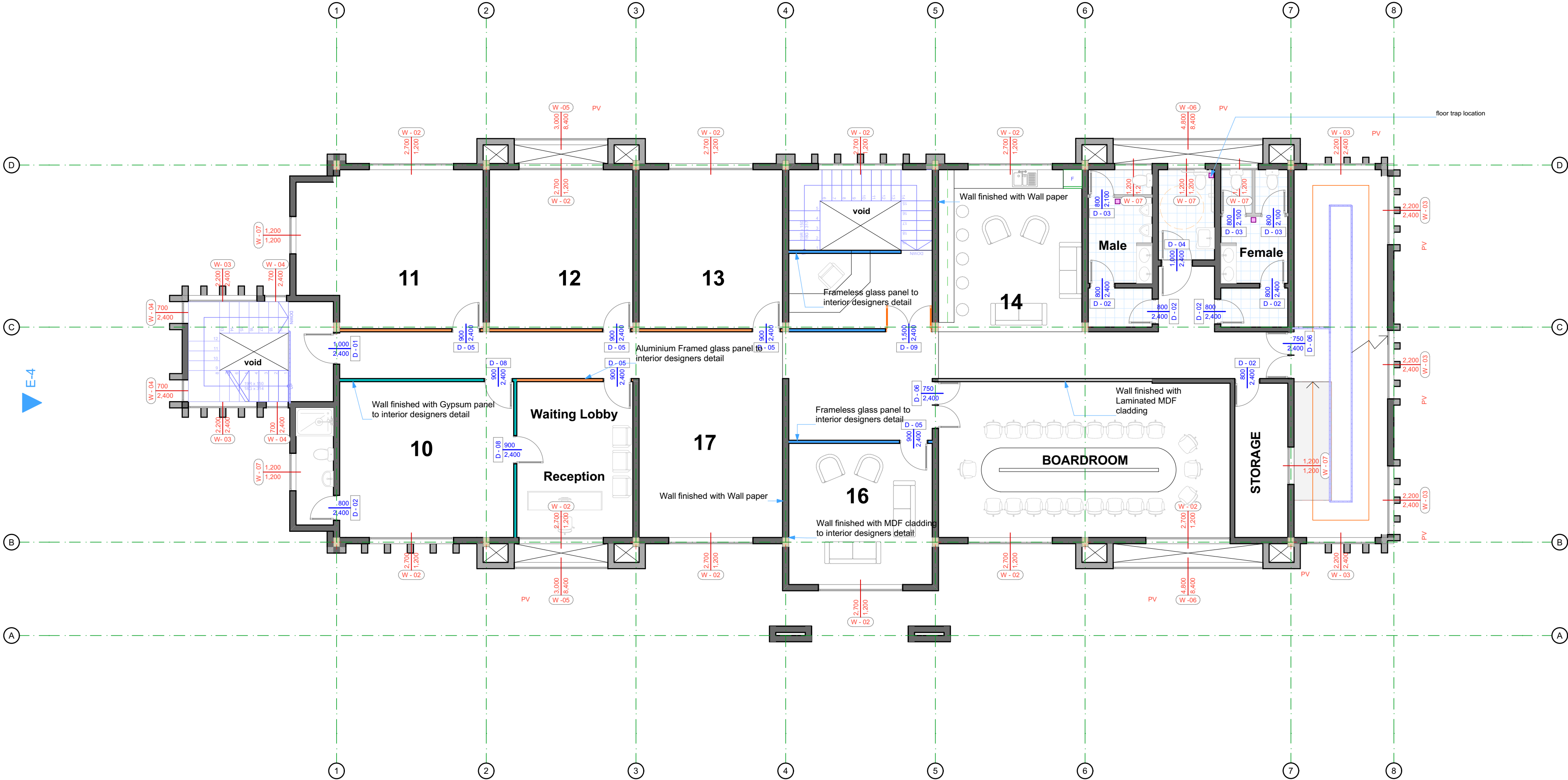
E-3



E-2



E-4



Second Floor Plan
Scale 1:100

NOTES

- GENERAL NOTES**
- 1 This drawing is protected under the copyright Act , and cannot be used or reproduced in part or in whole without authors consent .
 - 2 Read only figured dimensions .
 - 3 All construction work is to comply with the latest K.B.S. standard codes of practice , Local Authority By-Laws, and Fire regulations .
 - 4 P.V. denotes permanent ventilation and must be provided above all doors and windows where indicated or shown
 - 5 All walls less than 200mm thick to be reinforced with hoop iron at every alternate course
 - 6 Water Meter to be 300mm above G.L.
 - 7 D.p.c. denotes one layer of bituminous felt to be provided under all walls 150mm above G.L.
 - 8 All R.C. works to structural engineer's details.
 - 9 Provide 1 row of 600x600x50mm precast conc paving slabs around the building unless otherwise shown .
 - 10 Contractors must verify all dimensions and levels on site before commencing work . Any discrepancies must be reported to the architect before work is put in hand .
 - 11 All levels shown are finished levels unless otherwise stated.
 - 12 All surface beds to be cast on well compacted and well consolidated filling .
 - 13 Depth of foundation trenches to be minimum 600mm below reduced ground level .
 - 14 All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS		
No.	Date	Revision/Issue

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY

P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN _____

DATE _____

PROJECT

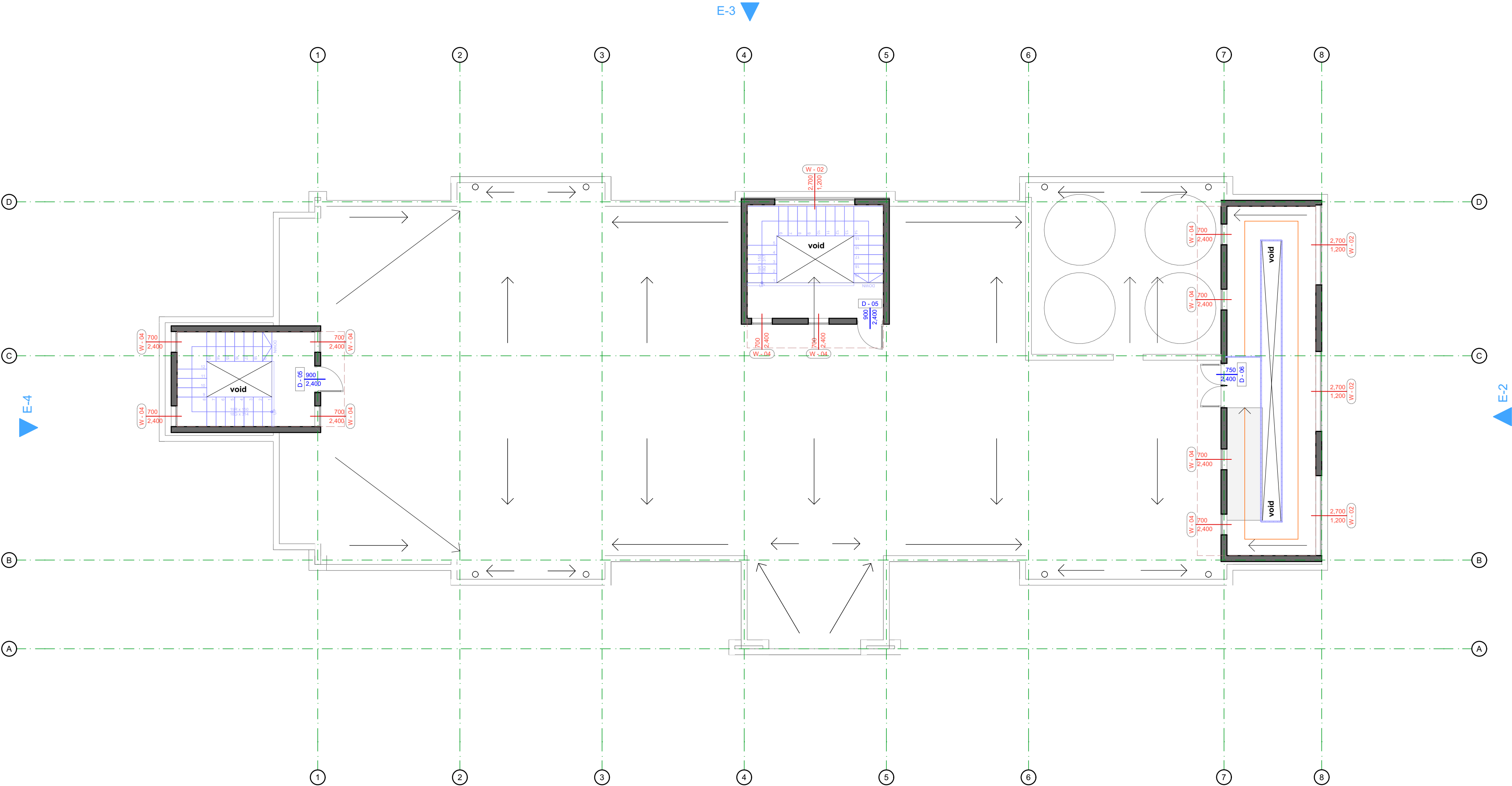
Proposed Offices in North Eastern Region, Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

ROOF

JOB NO	DRG.NO
	B103



Roof Plan
Scale 1:100

Elevation					
	Door ID	D - 01	D - 02	D - 03	D - 04
	Size	1000 x 2400	800 x 2400	800 x 1800	1000 x 2400
	Quantity	3	18	9	3
	Description	Fire Door to manufacturers specification and Architects Approval Provide Door closer and rubber door stop	Solid Core flush door with 4MM glass view panel to suppliers specification and Architect's Approval Provide Door closer and rubber door stop	Solid Core flush door to suppliers specification and Architect's Approval	Solid Core flush door to suppliers specification and Architect's Approval Provide Door closer and rubber door stop

Elevation				
	Door ID	D - 05	D - 06	D - 07
	Size	900 x 2400	1500 x 2400	1200 x 2400
	Quantity	22	7	2
Description	Powder coated aluminium door with 6MM Laminated glass infil to suppliers specification and Architect's Approval Provide Door closer and rubber door stop with pv			

DOOR SCHEDULE

NOTES

GENERAL NOTES

1

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2

Read only figured dimensions .

3

All construction work is to comply with the latest K.B.S. standard codes of practice, Local Authority By-Laws, and Fire regulations.

4

P.V. denotes permanent ventilation and must be provided above all doors and windows where indicated or shown

5

All walls less than 200mm thick to be reinforced with hoop iron at every alternate course

6

Water Meter to be 300mm above G.L.

7

D.p.c. denotes one layer of bituminous felt to be provided under all walls 150mm above G.L.

8

All R.C. works to structural engineer's details.

9

Provide 1 row of 600x600x50mm precast conc paving slabs around the building unless otherwise shown .

10

Contractors must verify all dimensions and levels on site before commencing work . Any discrepancies must be reported to the architect before work is put in hand .

11

All levels shown are finished levels unless otherwise stated.

12

All surface beds to be cast on well compacted and well consolidated filling .

13

Depth of foundation trenches to be minimum 600mm below reduced ground level .

14

All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS

No.	Date	Revision/Issue

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY

P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN

DATE

PROJECT

Proposed Offices in North Eastern Region, Garissa County

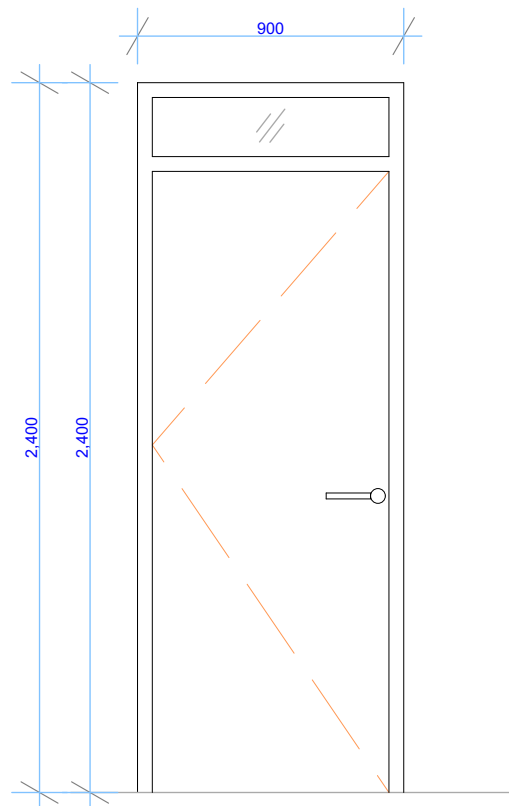
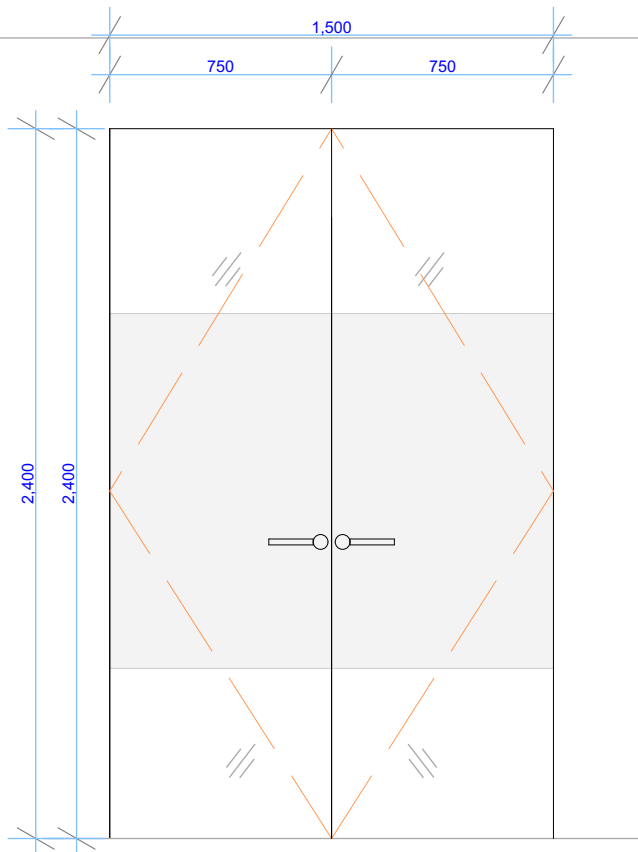
SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

JOB NO

DRG.NO

B104

Elevation			
	Door ID	D - 08	D - 09
	Size	900 x 2400	1500 x 2400
	Quantity	4	2
	Description	Solid Mahogany Door to suppliers specification and Architect's Approval Provide Door closer and rubber door stop with pv	Frameless Glass door with 6MM Laminated glass to suppliers specification and Architect's Approval Provide Door closer and rubber door stop with pv

DOOR SCHEDULE

NOTES

GENERAL NOTES

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2

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3

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4

P.V. denotes permanent ventilation and must be provided above all doors and windows where indicated or shown

5

All walls less than 200mm thick to be reinforced with hoop iron at every alternate course

6

Water Meter to be 300mm above G.L.

7

D.p.c. denotes one layer of bituminous felt to be provided under all walls 150mm above G.L.

8

All R.C. works to structural engineer's details.

9

Provide 1 row of 600x600x50mm precast conc paving slabs around the building unless otherwise shown .

10

Contractors must verify all dimensions and levels on site before commencing work . Any discrepancies must be reported to the architect before work is put in hand .

11

All levels shown are finished levels unless otherwise stated.

12

All surface beds to be cast on well compacted and well consolidated filling .

13

Depth of foundation trenches to be minimum 600mm below reduced ground level .

14

All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY

P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN

DATE

PROJECT

Proposed Offices in North Eastern Region, Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

JOB NO

DRG.NO

B105

Elevation Frosted film with KURA Logo imprint (refer to KURA's Offices at bara bara plaza) mdf woodlook laminate (refer to KURA's Offices at bara bara plaza)				
	Window ID	W - 11	W - 12	W - 13
	Size	1850 x 2400	2250 x 2400	2000 x 1200
	Quantity	3	1	1
	Description	Powder coated aluminium window with 6MM Laminated glass infil to suppliers specification and Architect's Approval	Powder coated aluminium window with 6MM Laminated glass infil to suppliers specification and Architect's Approval	Powder coated aluminium window with 6MM Laminated glass infil to suppliers specification and Architect's Approval with pv

WINDOW SCHEDULE

NOTES

GENERAL NOTES

1

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2

Read only figured dimensions .

3

All construction work is to comply with the latest K.B.S. standard codes of practice , Local Authority By-Laws, and Fire regulations .

4

P.V. denotes permanent ventilation and must be provided above all doors and windows where indicated or shown

5

All walls less than 200mm thick to be reinforced with hoop iron at every alternate course

6

Water Meter to be 300mm above G.L.

7

D.p.c. denotes one layer of bituminous felt to be provided under all walls 150mm above G.L.

8

All R.C. works to structural engineer's details.

9

Provide 1 row of 600x600x50mm precast conc paving slabs around the building unless otherwise shown .

10

Contractors must verify all dimensions and levels on site before commencing work . Any discrepancies must be reported to the architect before work is put in hand .

11

All levels shown are finished levels unless otherwise stated.

12

All surface beds to be cast on well compacted and well consolidated filling .

13

Depth of foundation trenches to be minimum 600mm below reduced ground level .

14

All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS

No.	Date	Revision/Issue

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY

P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN

DATE

PROJECT

Proposed Offices in North Eastern Region, Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

JOB NO

DRG.NO

B107



Window ID	W - 05
Size	3000 x 8400
Quantity	2
Description	Powder coated aluminium Louvres to suppliers specification and Architect's Approval



Window ID	W - 06
Size	4800 x 8400
Quantity	2
Description	Powder coated aluminium Louvres to suppliers specification and Architect's Approval

WINDOW SCHEDULE

NOTES

GENERAL NOTES

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All surface beds to be cast on well compacted and well consolidated filling .

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Depth of foundation trenches to be minimum 600mm below reduced ground level .

14

All pipes and services to be minimum 450mm below reduced ground level .

REVISIONS

No.	Date	Revision/Issue

ARCHITECT

CLIENT

KENYA URBAN ROADS AUTHORITY

P.O. BOX 41727 - 00100

DIRECTOR (RACM)

SIGN

DATE

PROJECT

Proposed Offices in North Eastern Region, Garissa County

SITE: L.R. No. _ _ _ _ _

DRAWING TITLE

JOB NO

DRG.NO

B108

THANK YOU!

GENERAL NOTES:
i) The floor levels shown are indicative and meant to show the relationship between various rooms. The shall be changed in accordance to architects directions.
ii) Minimum foundation depth to be 1000mm. The foundation shall bear on natural undisturbed inorganic soil or approved structural fill of confirmed bearing capacity.
iii) Bottoms of foundation shall be free of loose materials
iv) Foundation concrete shall be placed before deterioration of subgrade due to storm water or construction operations.
v) All working drawings to be read in conjunction with all other relevant drawings.
vi) All dimensions and levels to be verified before the work commences. Any discrepancies to be rectified by the consultant.
vii) All black cotton soil shall be excavated and removed entirely foundation and filled using imported murrum fill.

STRUCTURAL NOTES:
i) Refer to general requirements for structural specifications applicable to concrete mixing, handling and placing.
ii) The contractor SHALL SUBMIT to the structural engineer methods and products that will be used to protect and cure structural concrete AND locations, details and material data for all joints to structural concrete that are not included in the specifications and are proposed by the contractor
iii) Reinforcing bars shall be tied in place and not merely floated.
iv) Neither presence or lack of construction observation shall relieve the contractor of the responsibility of completing work in full compliance with structural specifications and drawings.
v) ALL concrete to be class 25 with minimum 25N/mm² 28-day crushing strength.
vi) Cover to reinforcement to be as follows: beams and columns =25mm slab =20mm Foundation =50mm
vii) Main reinforcement denoted "T" to have minimum yield strength of 500N/mm²
viii) Concrete to be of medium workability and consistency. maximum water/cement ratio to be 0.5 at all times. Concrete to have a compacting factor of 0.88-0.94 with slump between 25-50mm. The weight of dry sand and aggregate per 50 kg of cement to be 90kg and 155kg respectively
ix) 3 No. test cubes for each structural member to be tested at 7, 14 and 28 days. The results to be SUBMITTED to structural engineer.
x) The formwork to beam surfaces may be removed after 24 hrs of casting. The props to slab and beams shall not be removed until after 21 days
xi) All structural works to be executed in accordance to relevant job specifications

+300

FOR CONSTRUCTION

REVISIONS		
No.	Date	Revision/Issue

Project Title:
PROPOSED OFFICE BLOCK FOR KENYA URBAN ROADS AUTHORITY (KURA) - NORTH EASTERN REGION
KURA/GARISA BLOCK OFFICE/009-2022

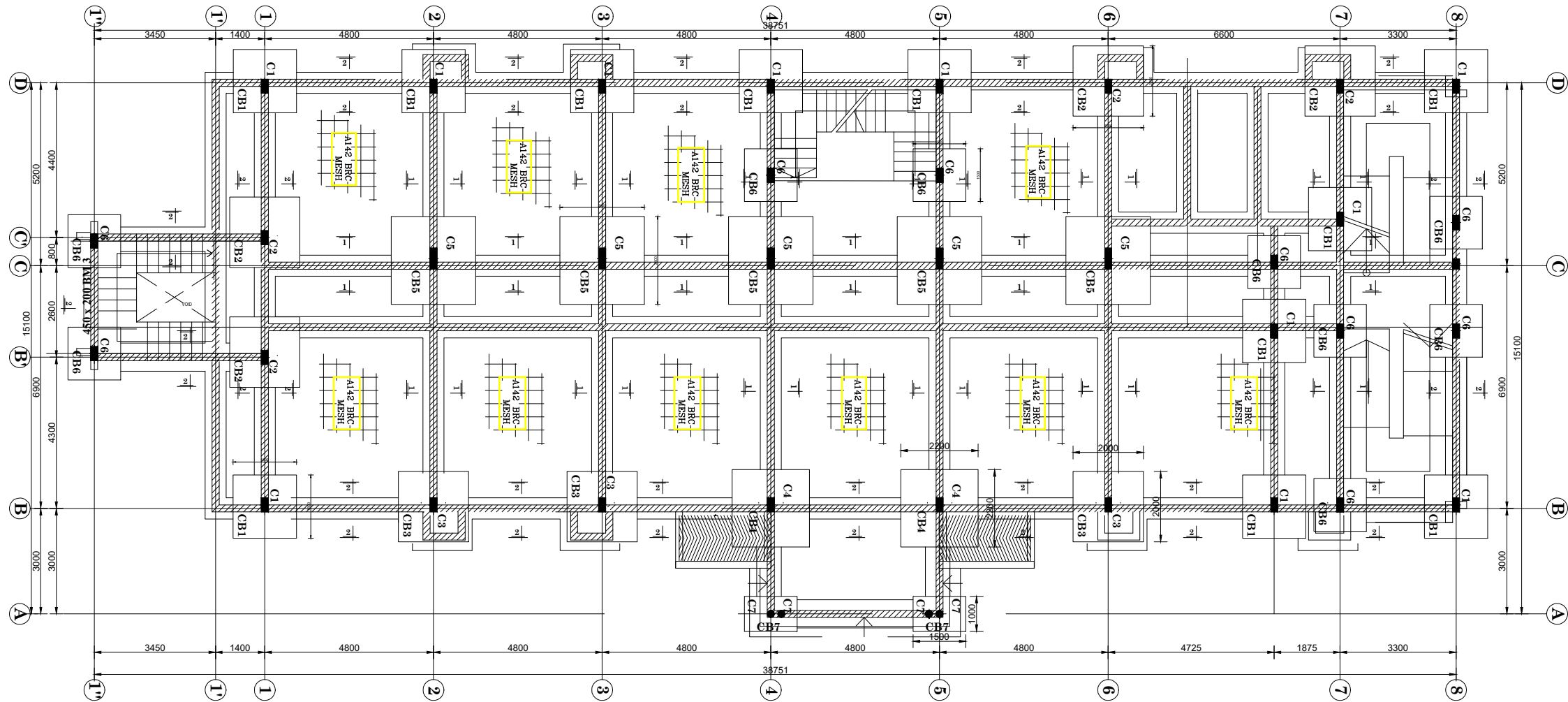
Client:
KENYA URBAN ROADS AUTHORITY NORTH EASTERN REGION

Project Engineer:
DIRECTOR ROAD ASSET MANAGEMENT KENYA URBAN ROADS AUTHORITY P.O. Box 41727-00100 NAIROBI

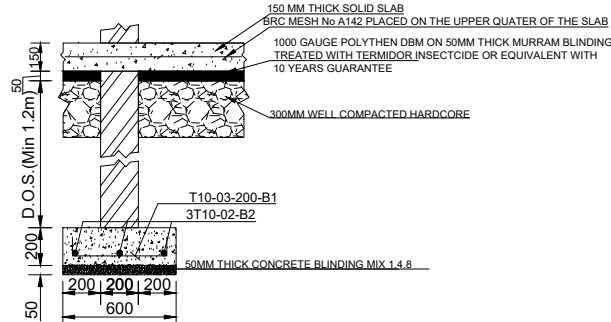
Project Architect:
COUNTY ARCHITECT DEPARTMENT OF PUBLIC WORKS - GARISA COUNTY P.O. Box 41 GARISA

Drawing Title:
FOUNDATION LAYOUT , STRIP FOOTING DETAILS, COLUMN AND PAD REINFORCEMENT DETAILS

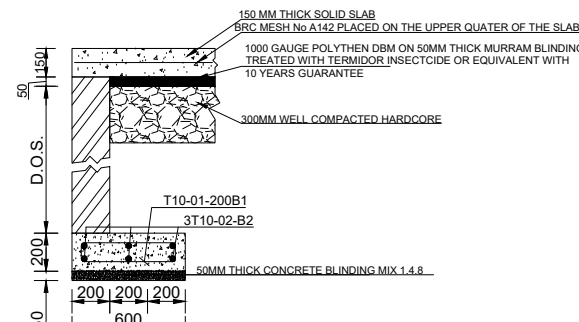
Designed: Ameer F. GEng.	Drawn: Ameer F. GEng.
Checked by: Eng. Jane M.	Approved By: Property Director Structures (JRD).
Date: Jan 2023	DRG No: 001
Job No: KURA/ 009/22	Scale: AS SHOWN



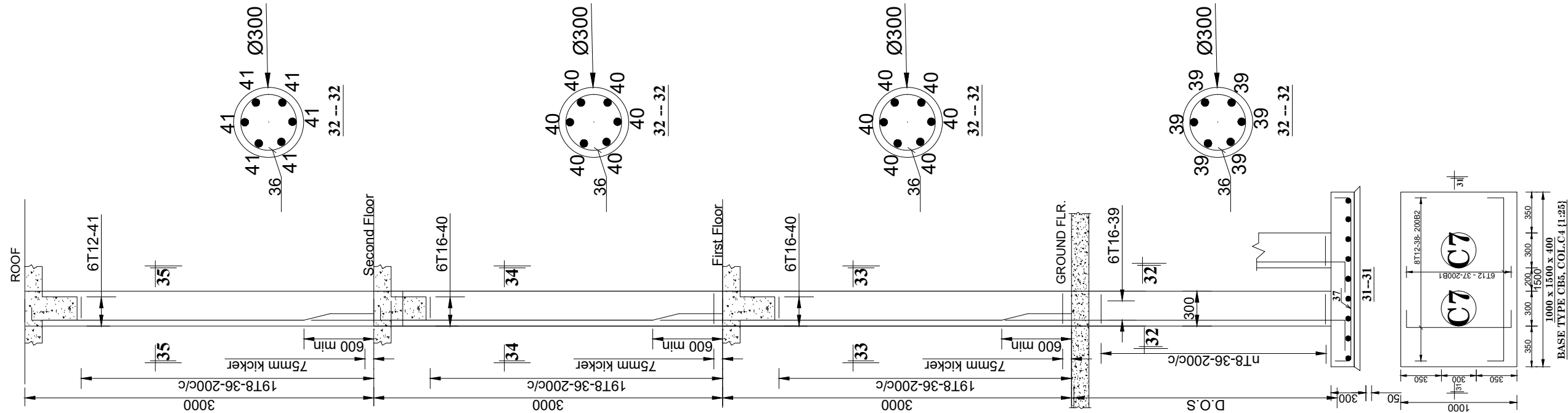
FOUNDATION LAYOUT
scale 1:75

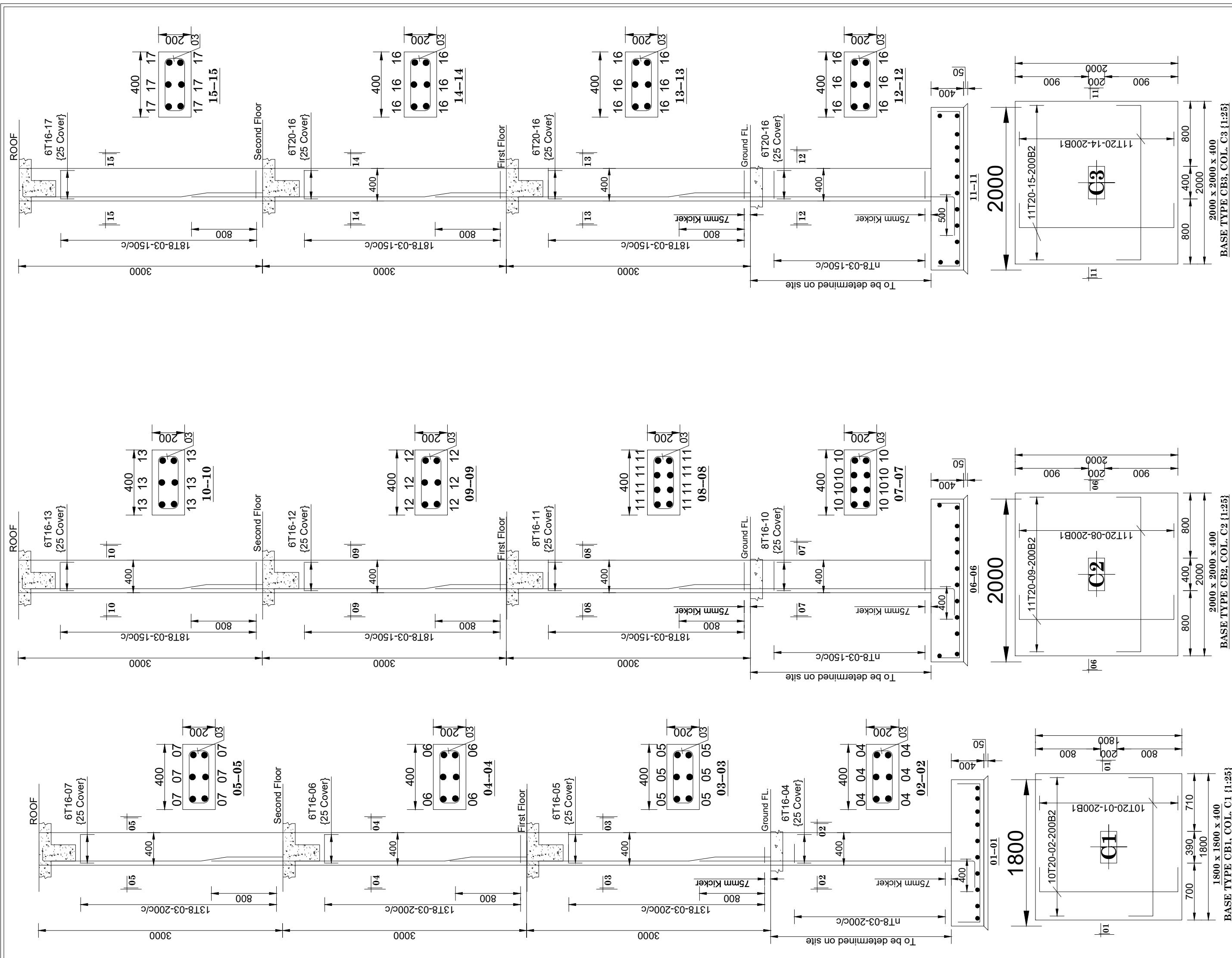


SECTION 1-1 {1:20}



SECTION 2-2 {1:20}





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GENERAL NOTES:

- i) The floor levels shown are indicative and meant to show the relationship between various rooms. The shall be changed in accordance to architects directions.
- ii) Minimum foundation depth to be 1000mm. The foundation shall bear on natural undisturbed inorganic soil or approved structural fill of confirmed bearing capacity.
- iii) Bottoms of foundation shall be free of loose materials
- iv) Foundation concrete shall be placed before deterioration of subgrade due to storm water or construction operations.
- v) All working drawings to be read in conjunction with all other relevant drawings.
- vi) All dimensions and levels to be verified before the work commences. Any discrepancies to be rectified by the consultant.
- vii) All black cotton soil shall be excavated and removed entirely foundation and filled using imported murrum fill.

STRUCTURAL NOTES:

- i) Refer to general requirements for structural specifications applicable to concrete mixing, handling and placing.
- ii) The contractor SHALL SUBMIT to the structural engineer methods and products that will be used to protect and cure structural concrete AND locations, details and material data for all joints to structural concrete that are not included in the specifications and are proposed by the contractor
- iii) Reinforcing bars shall be tied in place and not merely floated.
- iv) Neither presence or lack of construction observation shall relieve the contractor of the responsibility of completing work in full compliance with structural specifications and drawings.
- v) ALL concrete to be class 25 with minimum 25N/mm² 28-day crushing strength.
- vi) Cover to reinforcement to be as follows: beams and columns = 25mm slab = 20mm Foundation = 50mm
- vii) Main reinforcement denoted "T" to have minimum yield strength of 500N/mm²
- viii) Concrete to be of medium workability and consistency. maximum water/cement ratio to be 0.5 at all times. Concrete to have a compacting factor of 0.88-0.94 with slump between 25-50mm. The weight of dry sand and aggregate per 50 kg of cement to be 90kg and 155kg respectively
- ix) 3 No. test cubes for each structural member to tested at 7, 14 and 28 days. The results to be SUBMITTED to structural engineer.
- x) The formwork to beam surfaces may be removed after 3 days of casting. The props to slab and beams shall not be removed until after 21 days
- xi) All structural works to be executed in accordance to relevant job specifications

FOR CONSTRUCTION

REVISIONS		
No.	Date	Revision/Issue

Project title:
PROPOSED OFFICE BLOCK FOR KENYA URBAN ROADS AUTHORITY NORTH EASTERN REGION

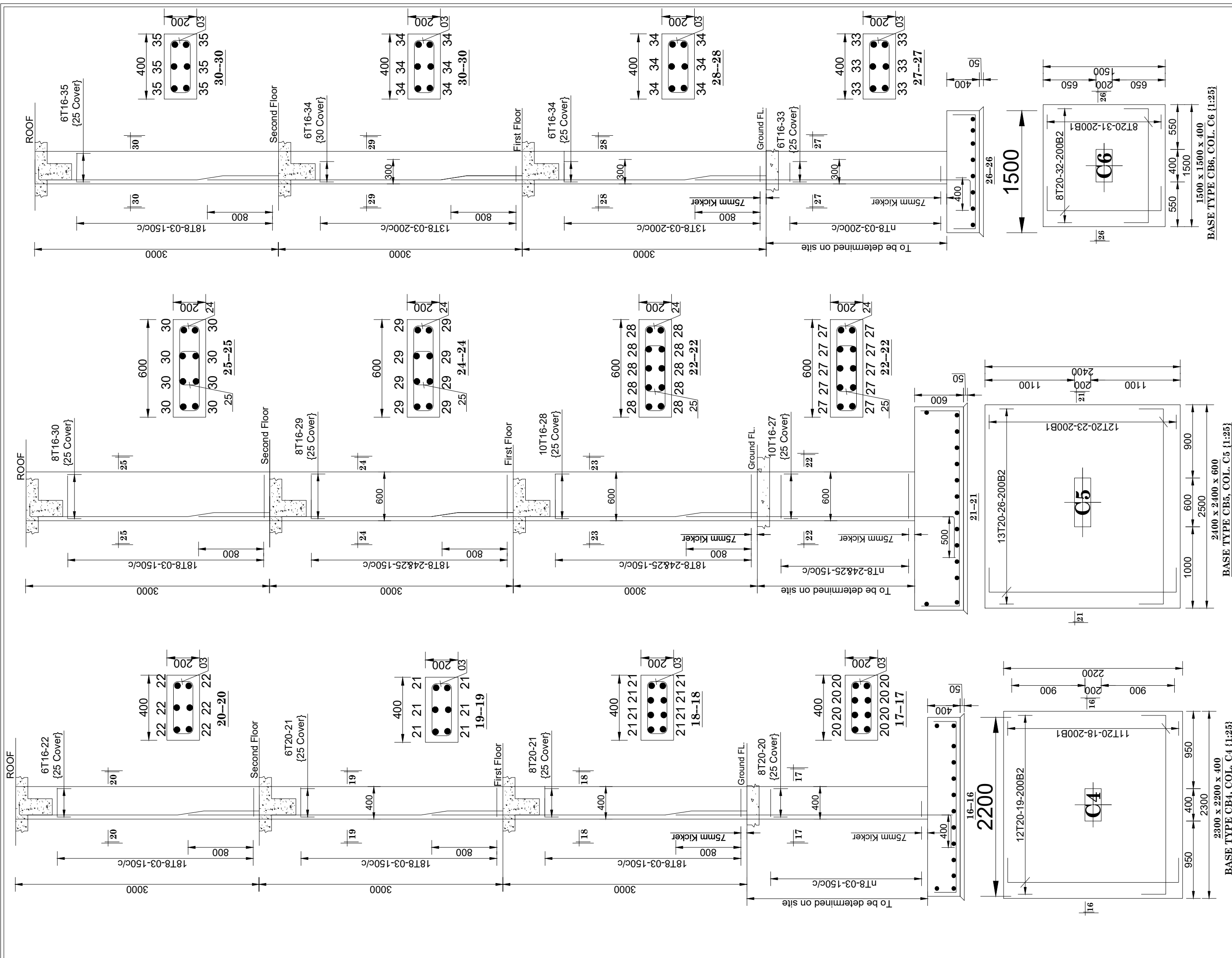
Client:
 KENYA URBAN ROADS AUTHORITY NORTH EASTERN REGION

Project Engineer:
DIRECTOR ROAD ASSET MANAGEMENT
KENYA URBAN ROADS AUTHORITY
P.O. Box 41727-00100 NAIROBI

Project Architect:
COUNTY ARCHITECT
DEPARTMENT of PUBLIC WORKS - GARISA COUNTY
P.O. Box 41 GARISA

Drawing Title:
COLUMN AND COLUMN BASE REINFORCEMENT DETAILS;

Designed: Alene P, CEng	Drawn: Alene P, CEng
Checked by: Eng. Jane M.	Approved by: Deputy Director Structures (DRD)
Date: Jan 2023	DRD No: 002
Job No: KURA/ 009/22	Scale: AS SHOWN



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AND IS PROTECTED UNDER
LAWS OF KENYA

GENERAL NOTES:

i) The floor levels shown are indicative and meant to show the relationship between various rooms. The shall be changed in accordance to architects directions.

ii) Minimum foundation depth to be 3000mm. The foundation shall bear on natural undisturbed inorganic soil or approved structural fill of confirmed bearing capacity.

iii) Bottoms of foundation shall be free of loose materials

iv) Foundation concrete shall be placed before deterioration of subgrade due to storm water or construction operations.

v) All working drawings to be read in conjunction with all other relevant drawings.

vi) All dimensions and levels to be verified before the work commences. Any discrepancies to be rectified by the consultant.

vii) All black cotton soil shall be excavated and removed entirely foundation and filled using imported murrum fill.

STRUCTURAL NOTES:

i) Refer to general requirements for structural specifications applicable to concrete mixing, handling and placing.

ii) The contractor SHALL SUBMIT to the structural engineer methods and products that will be used to protect and cure structural concrete AND locations, details and material data for all joints to structural concrete that are not included in the specifications and are proposed by the contractor

iii) Reinforcing bars shall be tied in place and not merely floated.

iv) Neither presence or lack of construction observation shall relieve the contractor of the responsibility of completing work in full compliance with structural specifications and drawings.

v) ALL concrete to be class 25 with minimum 25N/mm² 28-day crushing strength.

vi) Cover to reinforcement to be as follows: beams and columns =25mm slab =20mm Foundation =50mm

vii) Main reinforcement denoted "T" to have minimum yield strength of 500N/mm²

viii) Concrete to be of medium workability and consistency. maximum water/cement ratio to be 0.5 at all times. Concrete to have a compacting factor of 0.88-0.94 with slump between 25-50mm. The weight of dry sand and aggregate per 50 kg of cement to be 90kg and 155kg respectively

ix) 3 No. test cubes for each structural member to tested at 7, 14 and 28 days. The results to be SUBMITTED to structural engineer.

x) The formwork to beam surfaces may be removed after 21 days of casting. The props to slab and beams shall not be removed until after 21 days

xi) All structural works to be executed in accordance to relevant job specifications

FOR CONSTRUCTION

REVISIONS		
No.	Date	Revision/Issue

Project title:

PROPOSED OFFICE BLOCK FOR
KENYA URBAN ROADS AUTHORITY
NORTH EASTERN REGION

Client

 KENYA URBAN ROADS
AUTHORITY
NORTH EASTERN REGION

Project Engineer:

DIRECTOR ROAD ASSET
MANAGEMENT
KENYA URBAN ROADS AUTHORITY
P.O. Box 41727-00100 NAIROBI

Project Architect:

COUNTY ARCHITECT
DEPARTMENT of PUBLIC WORKS -
GARISA COUNTY
P.O. Box 41 GARISA

Drawing Title:

COLUMN AND COLUMN BASE
REINFORCEMENT DETAILS;

Designed:

Alene P, CEng

Checked by:

Eng. Jane M.

Date:

Jan 2023

Job No:

KURA/ 009/22

Drawn:

Alene P, CEng

Approved by:

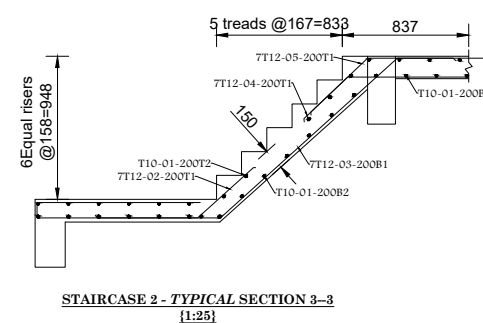
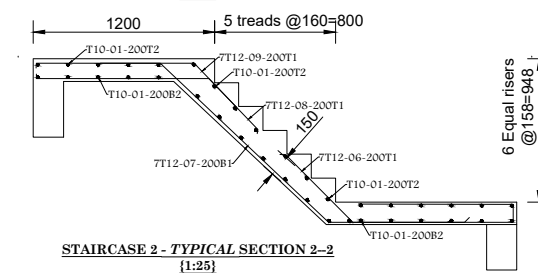
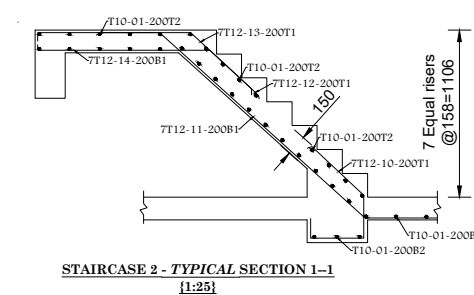
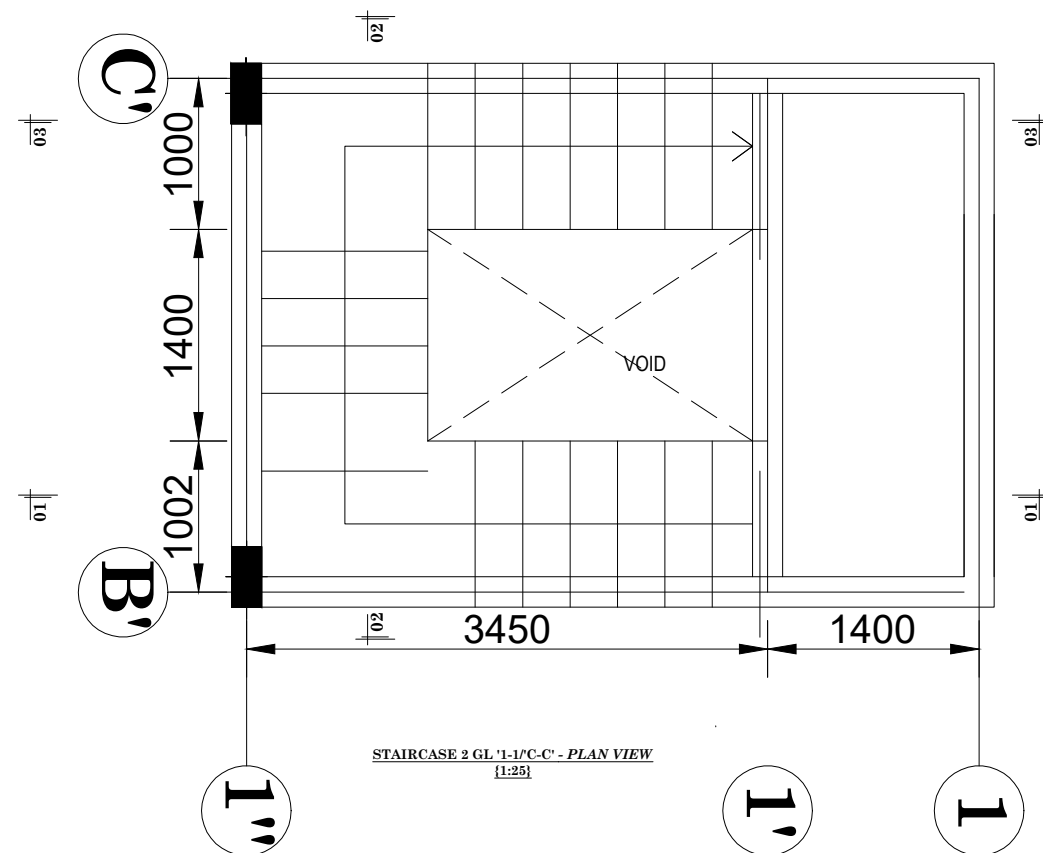
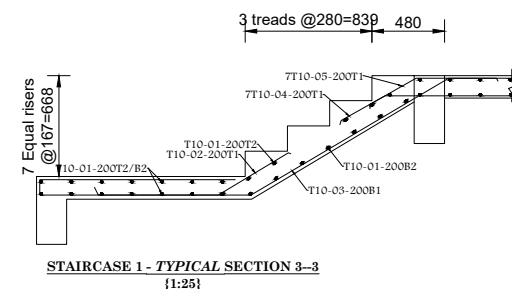
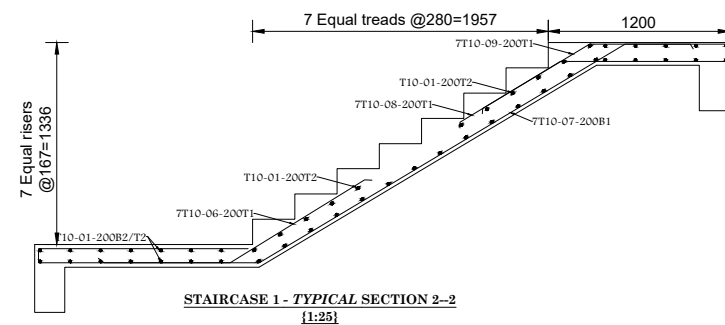
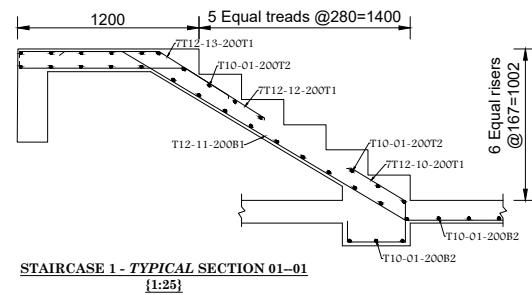
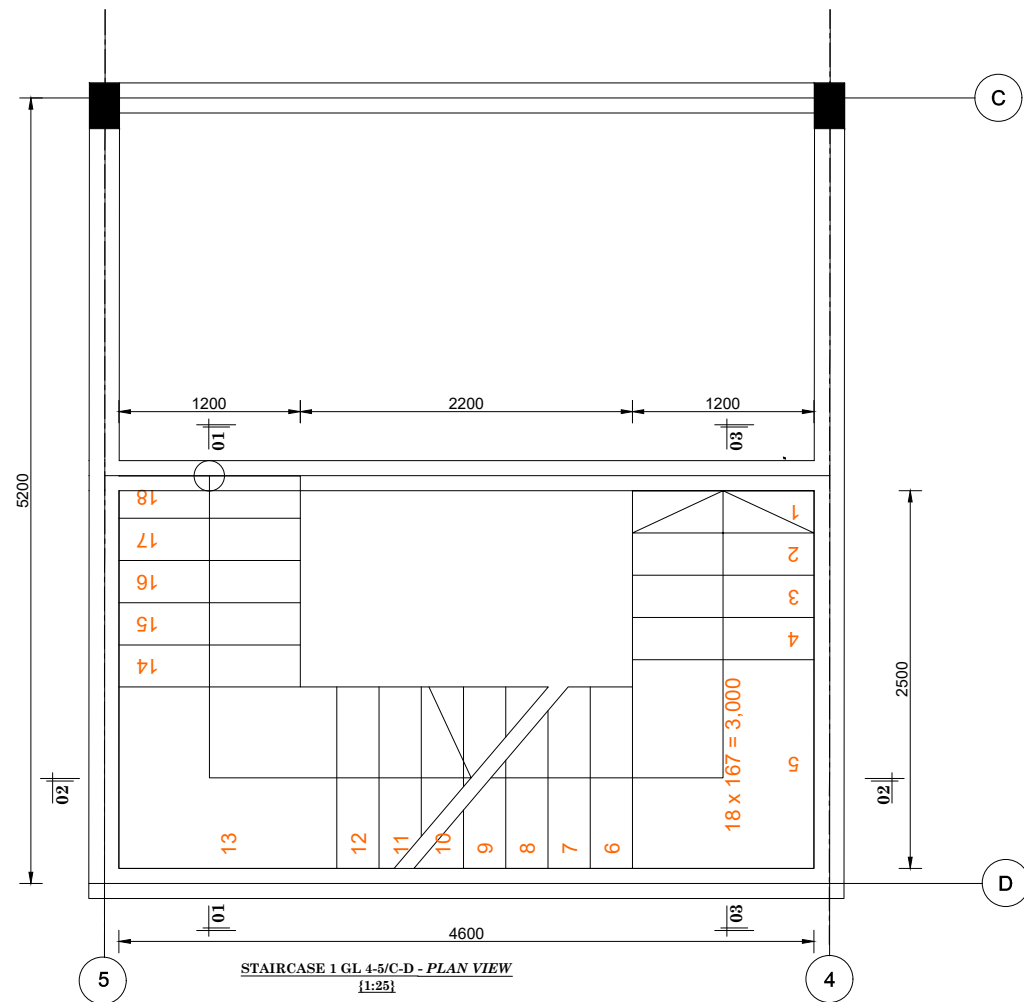
Deputy Director Structures (JRD)

DRG No:

003

Scale:

AS SHOWN



THIS DRAWING IS THE COPYRIGHT OF
KENYA URBAN ROADS AUTHORITY AND
IS PROTECTED UNDER LAWS OF KENYA

GENERAL NOTES:

- i) The floor levels shown are indicative and meant to show the relationship between various rooms. The shall be changed in accordance to architects directions.
- ii) Minimum foundation depth to be 1000mm. The foundation shall bear on natural undisturbed inorganic soil or approved structural fill of confirmed bearing capacity.
- iii) Bottoms of foundation shall be free of loose materials
- iv) Foundation concrete shall be placed before deterioration of subgrade due to storm water or construction operations.
- v) All working drawings to be read in conjunction with all other relevant drawings.
- vi) All dimensions and levels to be verified before the work commences. Any discrepancy to be reported to the consultant.
- vii) All black cotton soil shall be excavated and removed entirely foundation filled using imported murrum fill.

- i) Refer to general requirements for structural specifications applicable to concrete mixing, handling and placing.
- ii) The contractor SHALL SUBMIT to the structural engineer methods and products that will be used to protect and cure structural concrete AND locations, details and material data for all joints to structural concrete that are not included in the specifications and are proposed by the contractor
- iii) Reinforcing bars shall be tied in place and not merely floated.
- iv) Neither the contractor nor lack of construction observation shall relieve the contractor of the responsibility of completing work in full compliance with structural specifications and drawings.
- v) ALL concrete to be class 25 with minimum 25N/mm² 28-day crushing strength.
- vi) Cover to reinforcement to be as follows: beams and columns =25mm slab =20mm Foundation =50mm
- vii) Main reinforcement denoted "T" to have minimum yield strength of 500N/mm²
- viii) Concrete to be of medium workability and consistency, maximum water/cement ratio to be 0.5 at all times. Concrete to have a compacting factor of 0.88-0.94 with slump between 25-50mm. The weight of dry sand and aggregate per 50 kg of cement to be 90kg and 155kg respectively
- ix) No test results for any of each structural member to tested at 7, 14 and 28 days. The results to be SUBMITTED to structural engineer.
- x) The formwork to beam surfaces may be removed after 24 hrs of casting. The props to slab and beams shall not be removed until after 21 days
- xi) All structural works to be executed in accordance to relevant job specifications

+300

FOR CONSTRUCTION

[illegible]

Project title:
PROPOSED OFFICE BLOCK FOR
KENYA URBAN ROADS AUTHORITY (KURA) -
NORTH EASTERN REGION
KURA/GARISA BLOCK OFFICE/009-2022

Client:  KENYA URBAN ROADS AUTHORITY
NORTH EASTERN REGION

Project Engineer:
DIRECTOR ROAD ASSET MANAGEMENT
KENYA URBAN ROADS AUTHORITY
P.O. Box 41727-00100 NAIROBI

Project Architect:
COUNTY ARCHITECT
DEPARTMENT of PUBLIC WORKS -
GARISA COUNTY
P.O. Box 41 GARISA

Drawing Title:

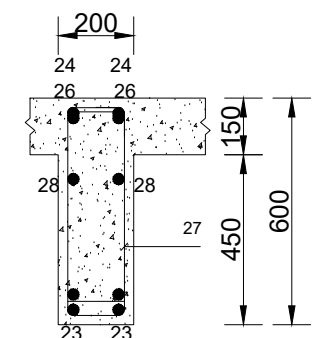
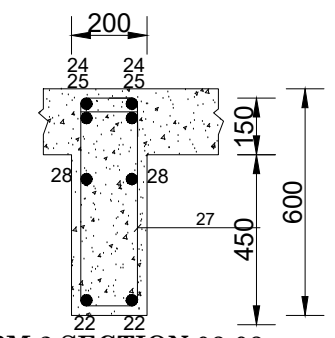
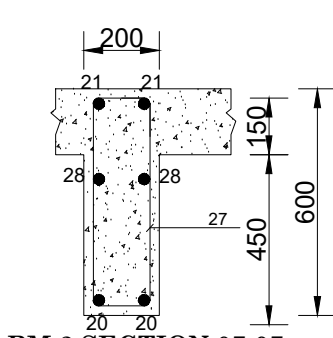
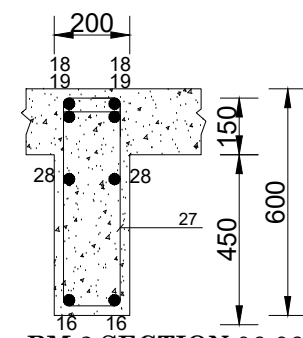
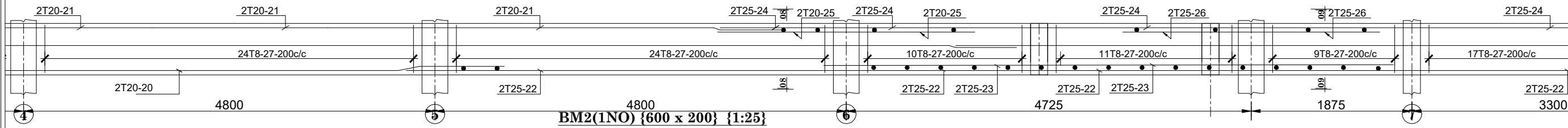
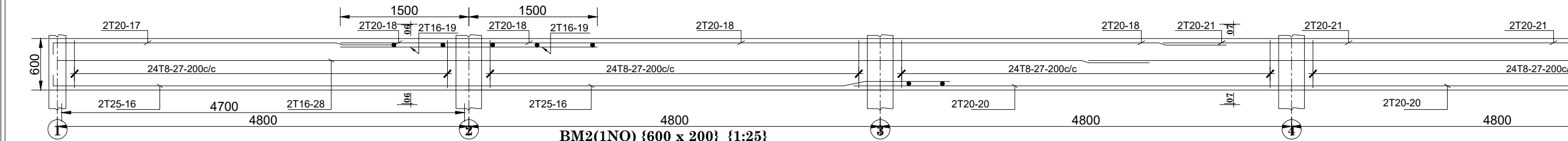
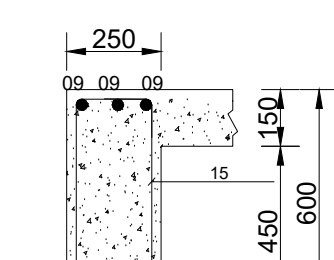
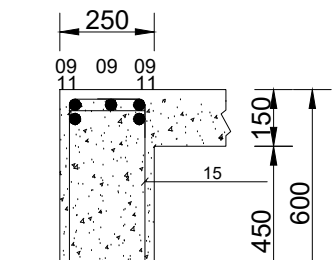
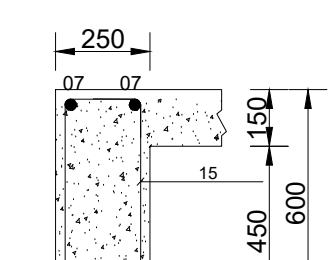
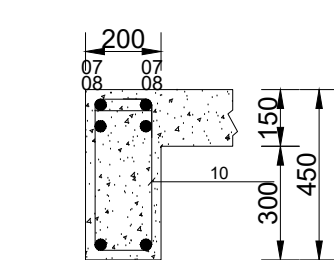
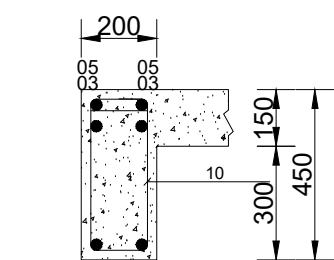
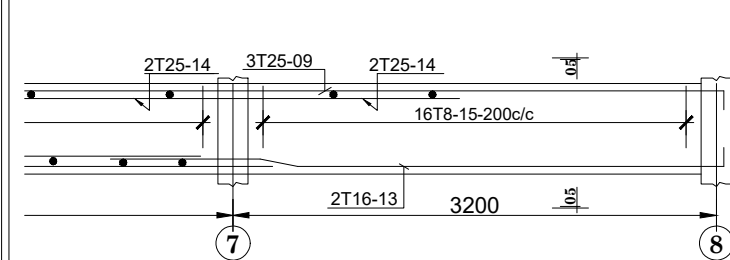
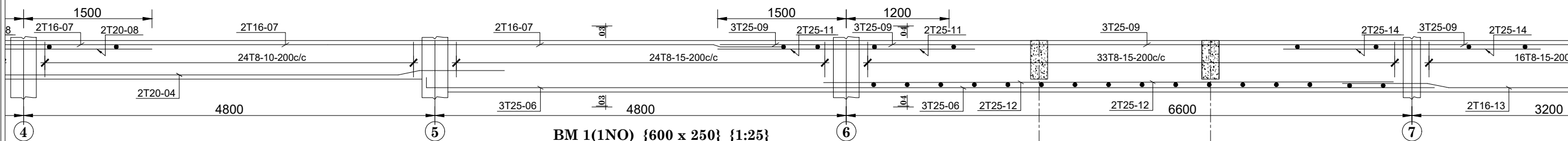
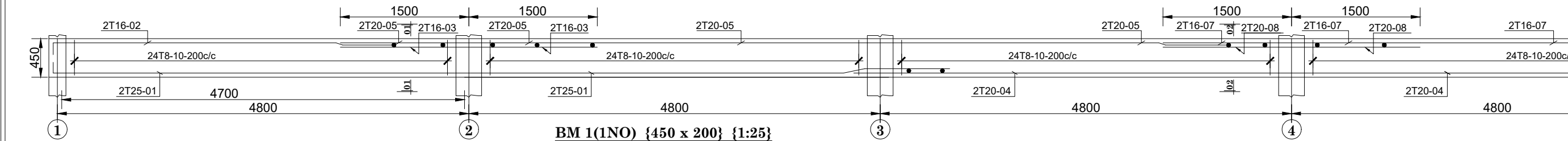
STAIRCASE LAYOUT AND REINFORCEMENT
DETAILS;

<u>Designed:</u>	<u>Drawn:</u>
Abene F, GEng.	Abene F, GEng.
<u>Checked by:</u>	<u>Approved by:</u>
Eng. Jane M.	Deputy Director Structures (JRD).
<u>Date:</u>	<u>DRG. No.</u>
Jan 2023	008
<u>Job No:</u>	<u>Scale:</u>
KURA/ 009/22	A5 SHOWN



+300

<u>Designed:</u> Abere P. GEng.	<u>Drawn:</u> Abere P. GEng.
<u>Checked by:</u> Eng. Jane M.	<u>Approved by:</u> Deputy Director Structures (URD).
<u>Date:</u> Jan 2023	<u>DRG No</u> 004
<u>Job No</u> KURA/ 009/22	<u>Scale:</u> A5 SHOWN



GENERAL NOTES:
i) The floor levels shown are indicative and meant to show the relationship between various rooms. They shall be changed in accordance to architects directions.
ii) Minimum foundation depth to be 1000mm. The foundation shall bear on natural undisturbed inorganic soil or approved structural fill of confirmed bearing capacity.
iii) Bottoms of foundation shall be free of loose materials.
iv) Foundation concrete shall be placed before deterioration of subgrade due to storm water or construction operations.
v) All working drawings to be read in conjunction with all other relevant drawings.
vi) All dimensions and levels to be verified before the work commences. Any discrepancies to be rectified by the consultant.
vii) All black cotton soil shall be excavated and removed entirely foundation and filled using imported murrum fill.

STRUCTURAL NOTES:
i) Refer to general requirements for structural specifications applicable to concrete mixing, handling and placing.
ii) The contractor SHALL SUBMIT to the structural engineer methods and products that will be used to protect and cure structural concrete AND locations, details and material data for all joints to structural concrete that are not included in the specifications and are proposed by the contractor.
iii) Reinforcing bars shall be tied in place and not merely floated.
iv) Neither presence or lack of construction observation shall relieve the contractor of the responsibility of completing work in full compliance with structural specifications and drawings.
v) ALL concrete to be class 25 with minimum 25N/mm² 28-day crushing strength.
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vii) Main reinforcement denoted "T" to have minimum yield strength of 500N/mm²
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ix) 3 No. test cubes for each structural member to be tested at 7, 14 and 28 days. The results to be SUBMITTED to structural engineer.
x) The formwork to beam surfaces may be removed after 24 hrs of casting. The props to slab and beams shall not be removed until after 21 days.
xi) All structural works to be executed in accordance to relevant job specifications.

+300

FOR CONSTRUCTION

REVISIONS		
No.	Date	Revision/Issue

Project title:
PROPOSED OFFICE BLOCK FOR
KENYA URBAN ROADS AUTHORITY (KURA) -
NORTH EASTERN REGION
KURA/GARISA BLOCK OFFICE/009-2022

Client:
 KENYA URBAN ROADS AUTHORITY
NORTH EASTERN REGION

Project Engineer:
DIRECTOR ROAD ASSET MANAGEMENT
KENYA URBAN ROADS AUTHORITY
P.O. Box 41727-00100 NAIROBI

Project Architect:
COUNTY ARCHITECT
DEPARTMENT OF PUBLIC WORKS -
GARISA COUNTY
P.O. Box 41 GARISA

Drawing Title:
BEAM REINFORCEMENT DETAILS;

Designed: Name: F. GEng.	Drawn: Name: F. GEng.
Checked by: Eng. Jane M.	Approved By: Project Director Structures (JRD).
Date: Jan 2023	DRG No: 005
Job No: KURA/ 009/22	Scale: AS SHOWN

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FOR CONSTRUCTION

REVISIONS		
No.	Date	Revision/Issue

Project title:
PROPOSED OFFICE BLOCK FOR KENYA URBAN ROADS AUTHORITY (KURA) - NORTH EASTERN REGION
KURA/GARISA BLOCK OFFICE/009-2022

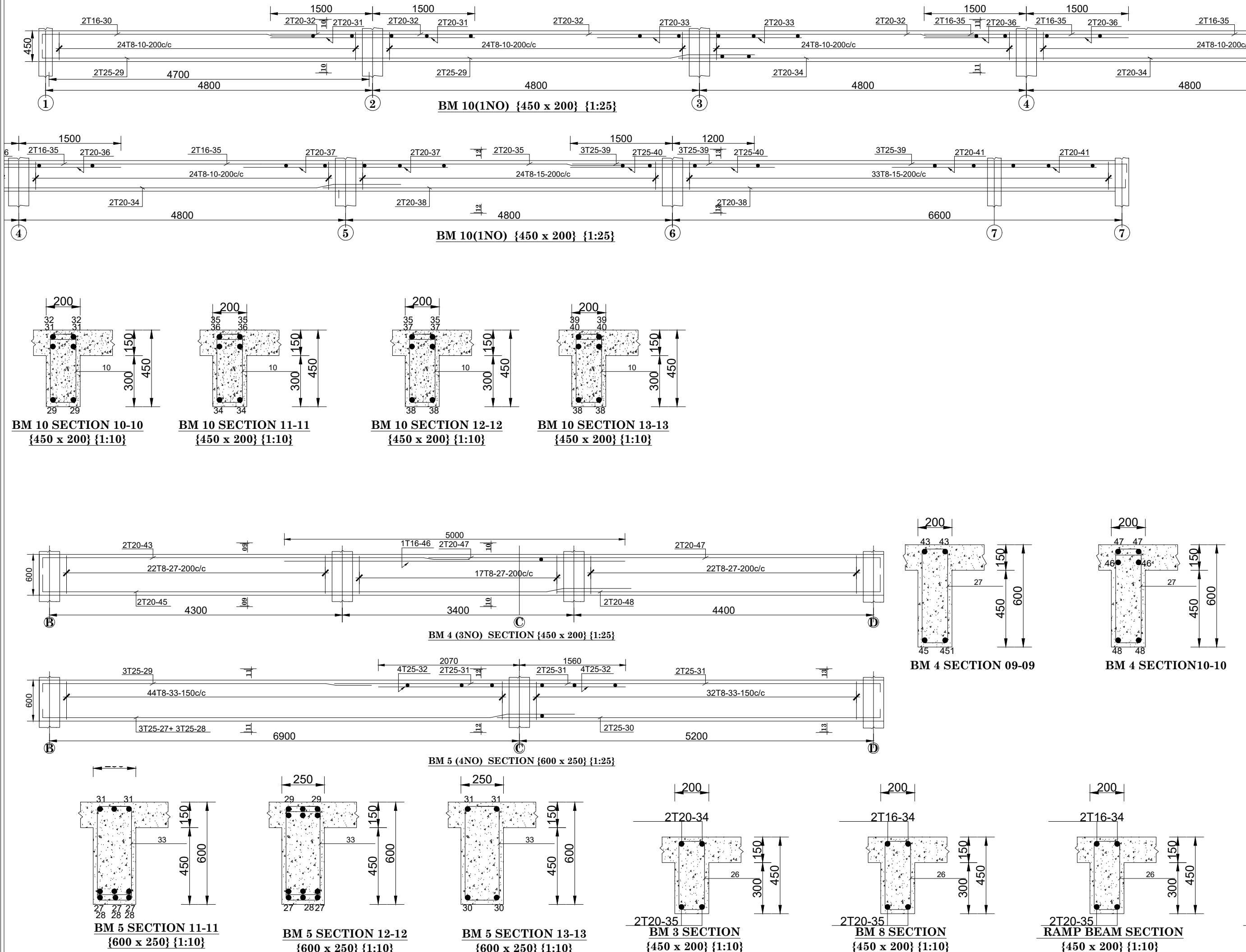
Client:
 KENYA URBAN ROADS AUTHORITY
NORTH EASTERN REGION

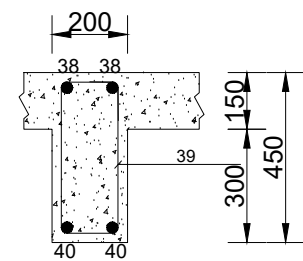
Project Engineer:
DIRECTOR ROAD ASSET MANAGEMENT
KENYA URBAN ROADS AUTHORITY
P.O. Box 41727-00100 NAIROBI

Project Architect:
COUNTY ARCHITECT
DEPARTMENT OF PUBLIC WORKS - GARISA COUNTY
P.O. Box 41 GARISA

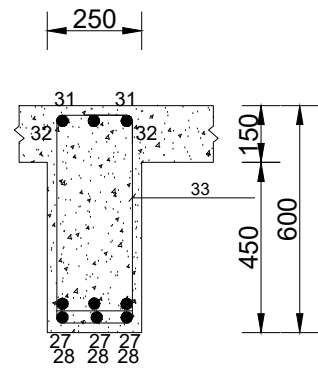
Drawing Title:
BEAM REINFORCEMENT DETAILS:

Designed: Ameer F. GEng.	Drawn: Ameer F. GEng.
Checked by: Eng. Jane M.	Approved By: Property Director Structures (JRD).
Date: Jan 2023	DRG No: 006
Job No: KURA/ 009/22	Scale: AS SHOWN





BM 6 SECTION 13-13
{450 x 200} {1:10}



Technical drawing of a reinforced concrete T-beam cross-section. The top flange has a width of 250 mm and a thickness of 150 mm. The web has a width of 27 mm and a height of 450 mm. The total height of the section is 600 mm. Reinforcement is shown with circles and dots, with labels 29, 27, 28, and 33 indicating specific bars or dimensions.

BM 6 SECTION 16-16
{600 x 250} {1:10}



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FOR CONSTRUCTION

[illegible]

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PROPOSED OFFICE BLOCK FOR
KENYA URBAN ROADS AUTHORITY (KURA) -
NORTH EASTERN REGION
KURA/GARISA BLOCK OFFICE/009-2022

Client:  KENYA URBAN ROADS AUTHORITY
NORTH EASTERN REGION

Project Engineer:
DIRECTOR ROAD ASSET MANAGEMENT
KENYA URBAN ROADS AUTHORITY
P.O. Box 41727-00100 NAIROBI

Project Architect:
COUNTY ARCHITECT
DEPARTMENT of PUBLIC WORKS -
GARISA COUNTY
P.O. Box 41 GARISA

Drawing Title:

BEAM REINFORCEMENT DETAILS, RAMP LAYOUT
AND RAMP REINFORCEMENT DETAILS;

<u>Designed:</u> Abere P. GEng.	<u>Drawn:</u> Abere P. GEng.
<u>Checked by:</u> Eng. Jane M.	<u>Approved by:</u> Deputy Director Structures (URD).
<u>Date:</u> Jan 2023	<u>DRG. No.</u> 007
<u>Job No:</u> KURA/ 009/22	<u>Scale:</u> AS SHOWN