



**Kenya Marine Fisheries Socioeconomic
Development Project (KEMFSED)
P.O. Box 58187-00200
NAIROBI**



**MINISTRY OF MINING, BLUE ECONOMY AND MARITIME
AFFAIRS**

Request for Bids

CONSTRUCTION OF KWALE FISHERIES CPIU OFFICE

Employer: State Department for Blue Economy & Fisheries
Project: Kenya Marine Fisheries Socio-Economic
Development Project (KEMFSED)
Contract Title: **CONSTRUCTION OF KWALE FISHERIES
CPIU OFFICE**
Country: Republic of Kenya
Loan No./Credit No/Grant No.: 6540-KE
RFBNo.: KE-MOMBE&MA-KWL-2024-005-CW
Issued on: 13TH FEBRUARY 2024

VOLUME 4 OF 4

DRAWINGS

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PROJECT 06

PROPOSED DEVELOPMENT OF FISHERIES OFFICES IN MSAMBWENI.

PROPOSED DEVELOPMENT OF FISHERIES OFFICES IN MSAMBWENI.					
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1 7	3D	06 - 001 - 017	A 3	P D F	PROVIDED

NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL
EQUATIONS

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICA
1.2. All rights reserved.

12. All plumbing and drainage to comply with the relevant standards.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or service pipes. All bends and junctions to have a minimum 100mm radius.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing between buildings and driveways to be protected by a concrete slab.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8145 4 and S2255. cast iron to comply to BS8497 table c grade C except ones in the basement which shall comply to BS8556.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8497 table c grade C except one to BS8556.
19. Storm water drain shall comply to BS8556.
20. Minimum sloping shall be 1 in 100.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project : **PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location : **MSAMBWENI, KWALE
COUNTY**

Client : **STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

Signature

Subject

WORKING DRAWINGS.

Consultancy

ARPRIM CONSULTANTS
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TEL: 020-884312/8
Website :www.arprimconsultants.com

Drawn by: PETER MOMANYI B. Arch. (Hons), (reg. No.A1552)	Checked by :- F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by :- J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1552)
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Date: NOV 2023 | Job No. 2023/Nov/KIDONGC

Scale 1:100

SITE PLAN

The site plan is overlaid on an aerial photograph of a wooded area. It shows an 'EXISTING BUILDING' in red, a 'New Assembly hall' in green, and a 'parking area' in grey. Two 'ACCESS ROAD' labels are present. Dimensions 63,542 and 32,580 are shown. A scale of 1:100 is indicated.

63,542

32,580

EXISTING BUILDING

NEW ASSEMBLY HALL

PARKING AREA

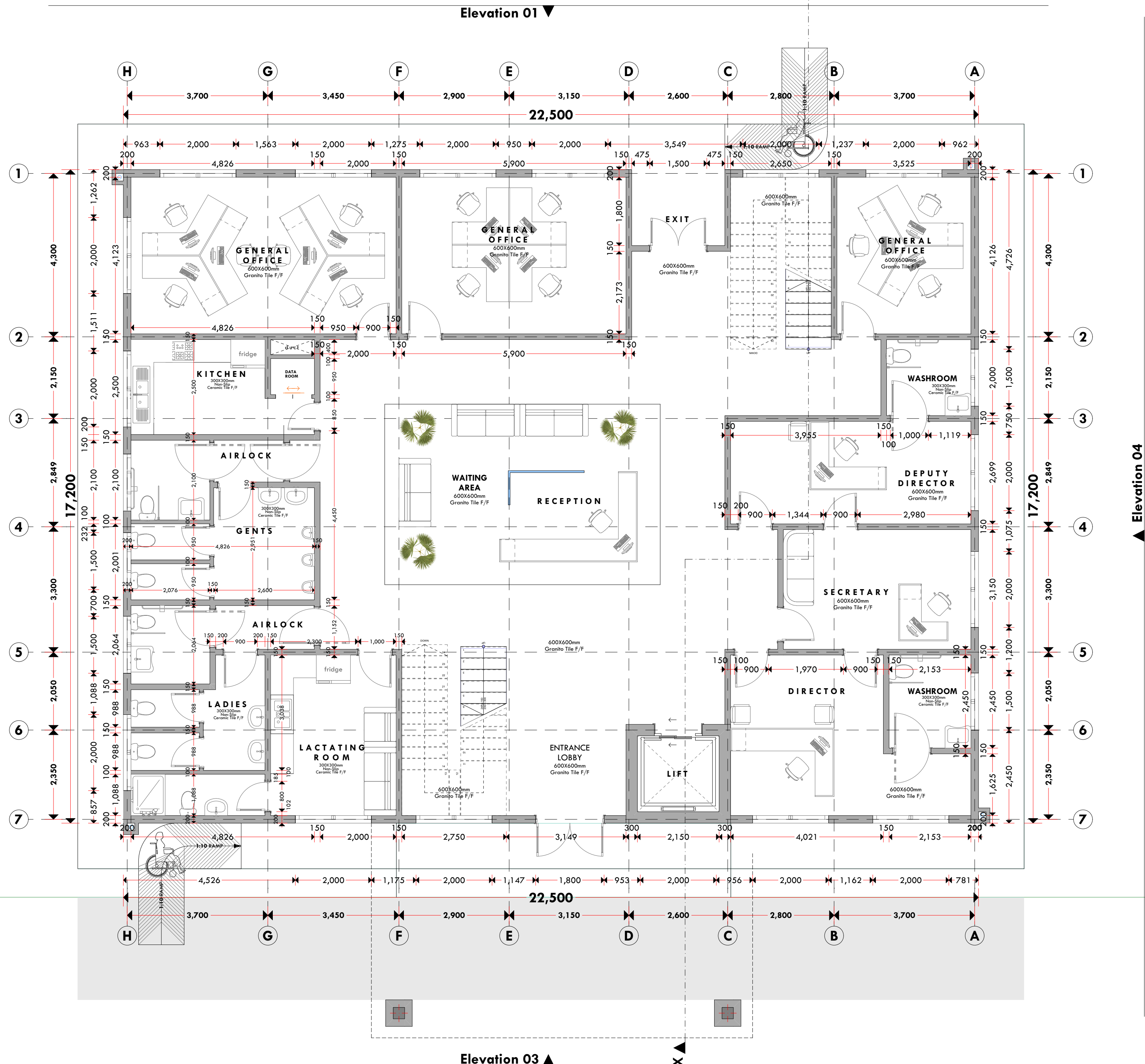
ACCESS ROAD

ACCESS ROAD

SCALE 1:100

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GROUND FLOOR



NOTES:

GENERAL

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2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant approving local authority's specifications.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SWPs or waste pipes. All bends and junctions to have inspection plates.
15. SWP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground foul and waste drain pipes shall be PCP to comply to BS 853 451.4 and 423.5, cast iron to comply to BS 457 table 6 Grade C except ones in the driveway which shall comply to BS 556.
18. All inspection chamber covers and frames shall be cast iron to comply to BS 853 451.4 and 423.5, cast iron 10mm water storm drain shall comply to BS 556.
20. Minimum slopes to drains shall be 1%.
21. No chasing will be allowed in the slabs for pipes. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL
24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

- 26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
- 27. Provide underground water tank with automatic electric booster pump for ring main
- 28. provide automatic push button fire alarm system
- 29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

[illegible]

Project :
**PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:
Location : MSAMBWENI, KWALE COUNTY

Client :
**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 002

Signature
Subject :

WORKING DRAWINGS.

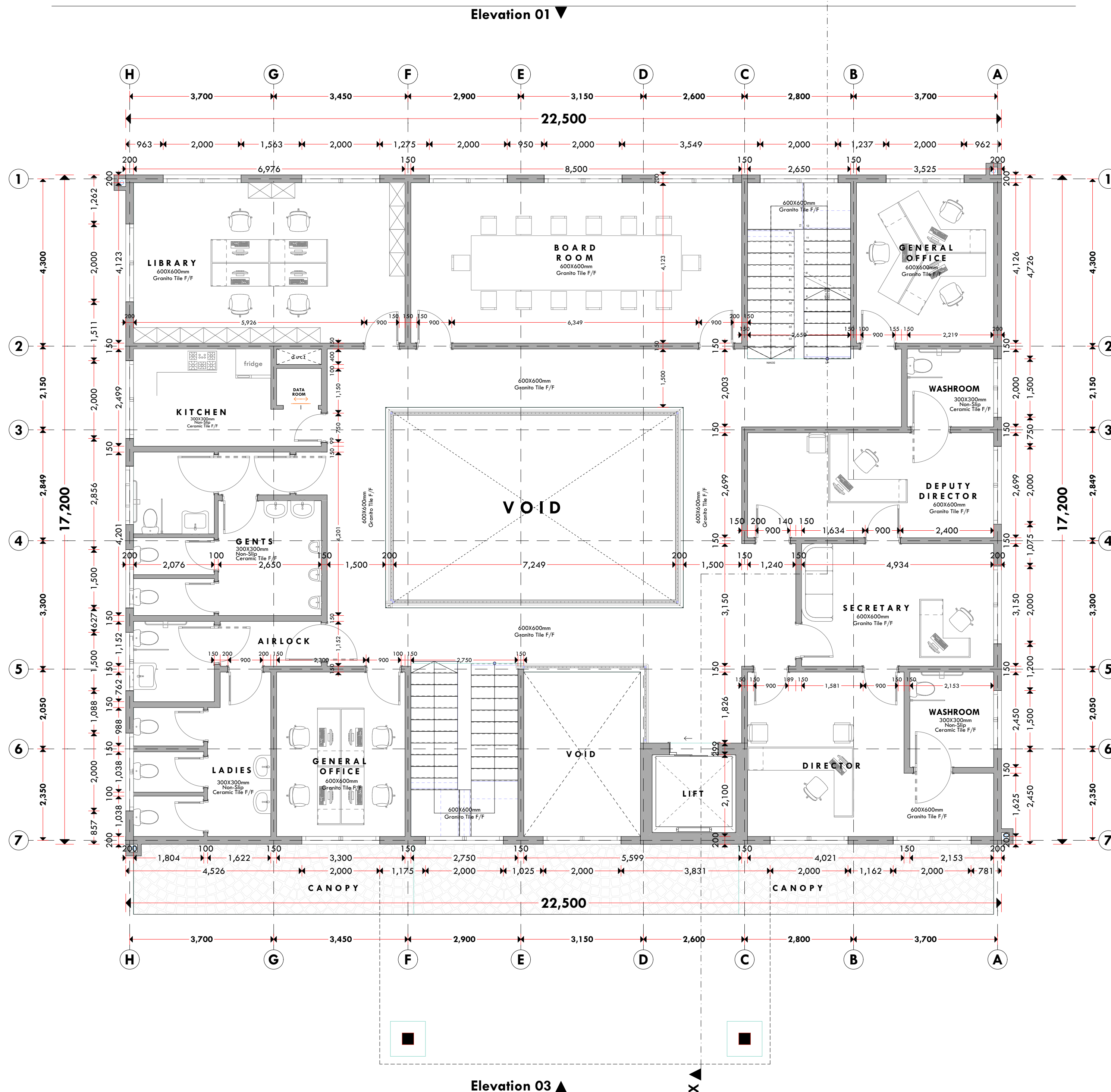
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Date: NOV 2023	Job No . 2023/Nov/KIDONGO
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Scale 1:100	
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1ST FLOOR



NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not to be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICA

12. All plumbing and drainage to comply with the local authority's specifications.
13. All service ducts to be installed in accordance with all floors.
14. Deep seal or anti-vac to all fittings connected to the SWPs or waste pipes. All bends and junctions to have inspection plates.
15. All UPVC to be installed at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground drainage and vent pipes shall be UPVC and comply to BS8545 and S255. cast iron to comply to BS8549 grade 6 grade C except ones in the driveway which shall comply to BS8556.
18. All external cast iron covers and frames shall be cast iron to comply to BS8549 grade 6 grade C except in the driveway which shall comply to BS8556.
19. Storm water drain shall comply to BS8556.
20. Minimum 40mm slope for all drains.
21. No chasing will be allowed in the slabs for pipes. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project : **PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT**

Plot L. R. No.:
Location : MSAMBWENI, KWALE COUNTY

Client :
**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 003

Signature

Subject :

WORKING DRAWINGS.

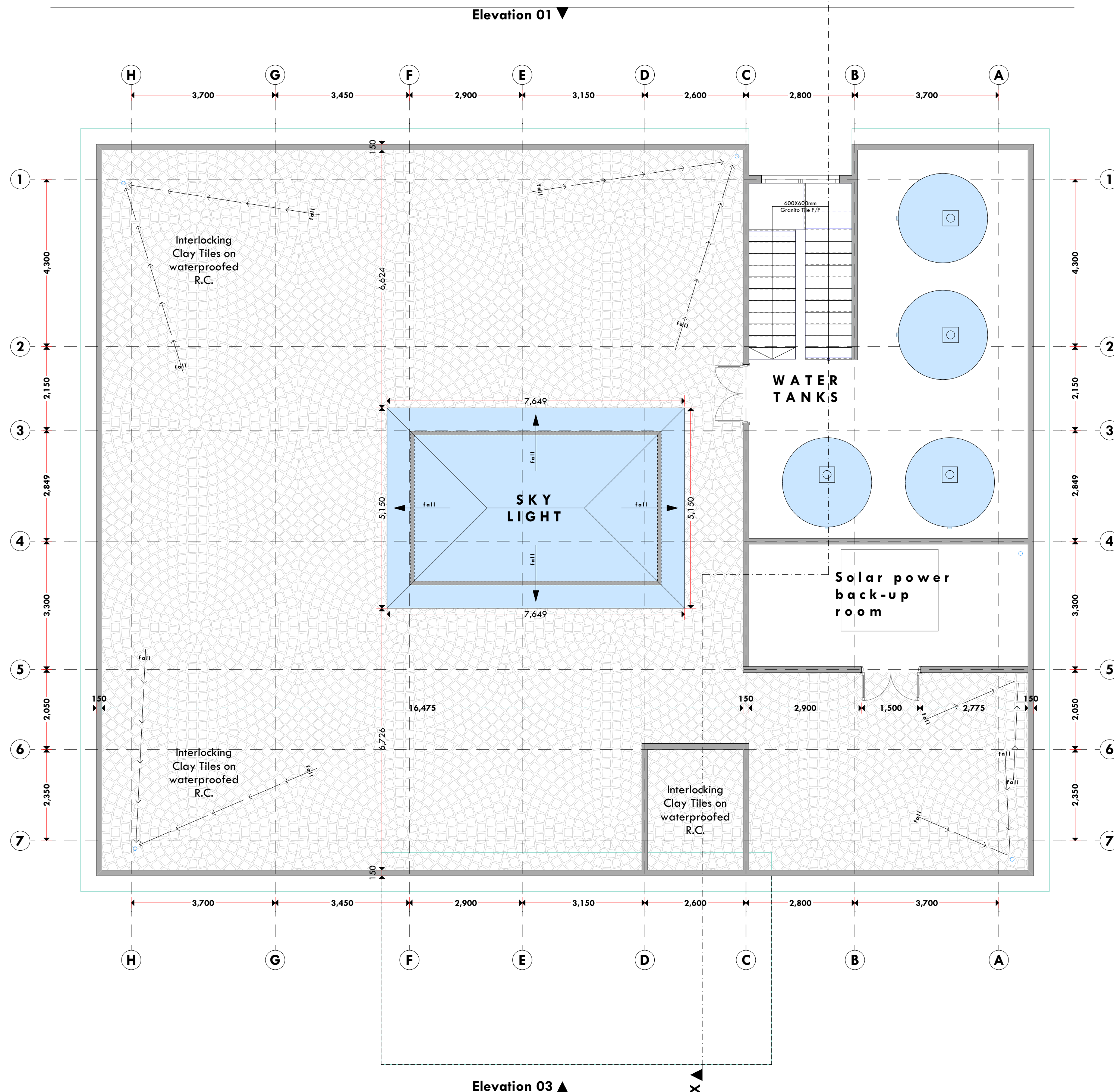
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Date: NOV 2023	Job No. 2023/Nov/KIDONGO
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Scale 1:100	
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ROOF PLAN



NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not to be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

15. All stormwater piping and drainage to comply with the relevant approved local authority's specifications.
16. All service ducts to be accessible from all floors.
17. Keep sealant and all other fittings connected to the SVPs or waste pipes. All bends and junctions to be inspected plates.
18. All SVP to be installed at the head of the drainage.
19. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
20. All underground foul and waste drain pipes shall be cast in and comply with BS5 454 standard.
21. All stormwater pipes shall be cast in and comply to BS5 474 grade 6 concrete except in the driveway which shall comply to BS5 556.
22. In concrete channels, the concrete on top of the pipes shall be cast in and comply to BS5 474 grade 6 concrete except in storm water drain shall comply to BS5 556.
23. Minimum slope for stormwater pipes shall be 1%.
24. No chasing will be allowed in the slabs for pipes. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
25. All testing of pipes must be completed before plastering.
26. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

- ELECTRICITY**
- 24. All conduits must be laid before plastering.
 - 25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.
- FIRE**
- 26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - 27. Provide underground water tank with automatic electric booster pump for ring main
 - 28. provide automatic push button fire alarm system
 - 29. provide heat and smoke detectors in each room
 - provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project : **PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT**

Plot L. R. No.:
Location : MSAMBWENI, KWALE COUNTY

Client :
**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 004

Signature

Subject :

WORKING DRAWINGS.

Consultancy :
ARPRIM CONSULTANTS
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Date: NOV 2023	Job No. 2023/Nov/KIDONGO
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Scale 1:100	
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NORTH
ELEVATION



NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All -

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant codes and local authority requirements.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vapour to all fittings connected to the SVPs or service pipes. All bends and junctions to have cast iron plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS5 454 and S255. cast iron to comply to BS5 457 table C, except ones in the drainage chamber which shall comply to BS5 457 table D.
18. All inspection chamber covers and frames shall be cast iron to comply to BS5 457 table 6 grade C except cast iron storm water drains to comply to BS5 457 table 6 grade D.
19. Minimum slopes to drains shall be:
 - 20. 1:100 for storm water drains
 - 21. 1:200 for foul water drains
20. No chasing will be allowed in the slabs for pipes.
21. Chases will be allowed in the slabs with the written approval of the Structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.
- FIRE**
26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project : **PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**MSAMBWENI, KWALE
COUNTY**

Client :
**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 006

Signature

Subject : **WORKING DRAWINGS.**

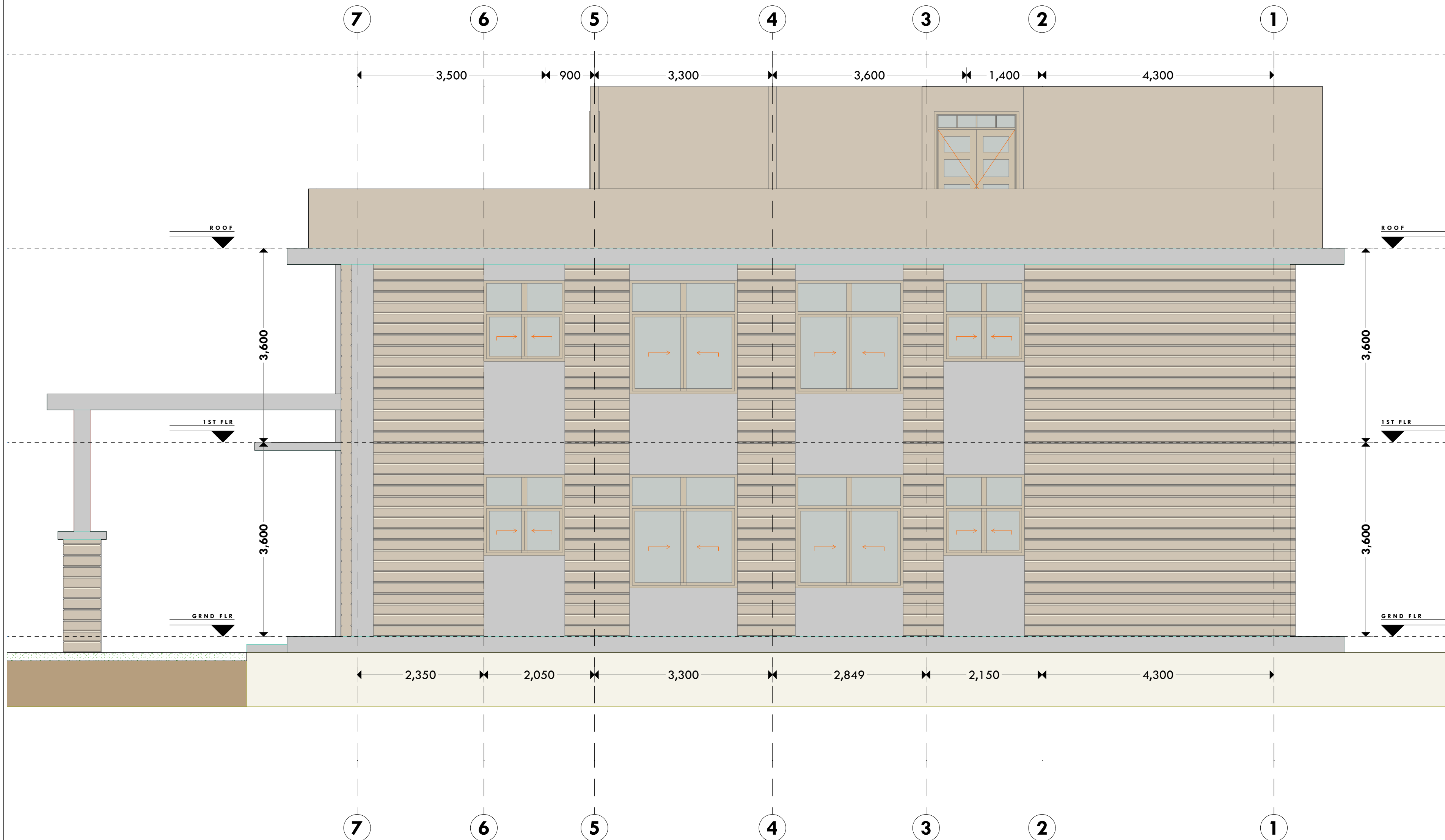
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ate: NOV 2023	Job No . 2023/Nov/KIDONGO
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Scale 1:100

EAST ELEVATION



NOTES:

GENERAL

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2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant standards for the local authority.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or service pipes. All bends and junctions to have transition plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS5 451A and S255, cast iron to comply to BS85 497 table 6 grade C except ones in the manholes which shall be cast iron.
18. All inspection chamber covers and frames shall be cast iron to comply to BS85 497 table 6 grade C except ones in the storm water drains which shall be cast iron S255.
19. Minimum slopes to drains shall be 1:60.
20. No chasing will be allowed in the slabs for pipes.
21. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :
**PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**MSAMBWENI, KWALE
COUNTY**

Client :
**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 007

Signature

Subject :

WORKING DRAWINGS.

Consultancy :
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TEL: 020-884312/8
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ate: NOV 2023	Job No . 2023/Nov/KIDONGO
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Scale 1:100

**SOUTH
ELEVATION**



NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant Australian local authority requirements.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the water or waste pipes. All bends and junctions to have inspection plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS5 454 and S255. cast iron to comply to BS5 455. All drains to have a 1% slope in the driveway which shall comply to BS5 556.
18. All inspection chamber covers and frames shall be cast iron to comply to BS 457 table 6 grade C except 150mm storm water drains to comply to BS 556.
19. Minimum slopes to drains shall be 1%.
20. No chasing will be allowed in the slabs for pipes.
21. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
22. All testing of pipes must be completed before plastering.
23. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.
- FIRE**
26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project : **PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**MSAMBWENI, KWALE
COUNTY**

Client:

**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 008

Signature

Subject :

WORKING DRAWINGS.

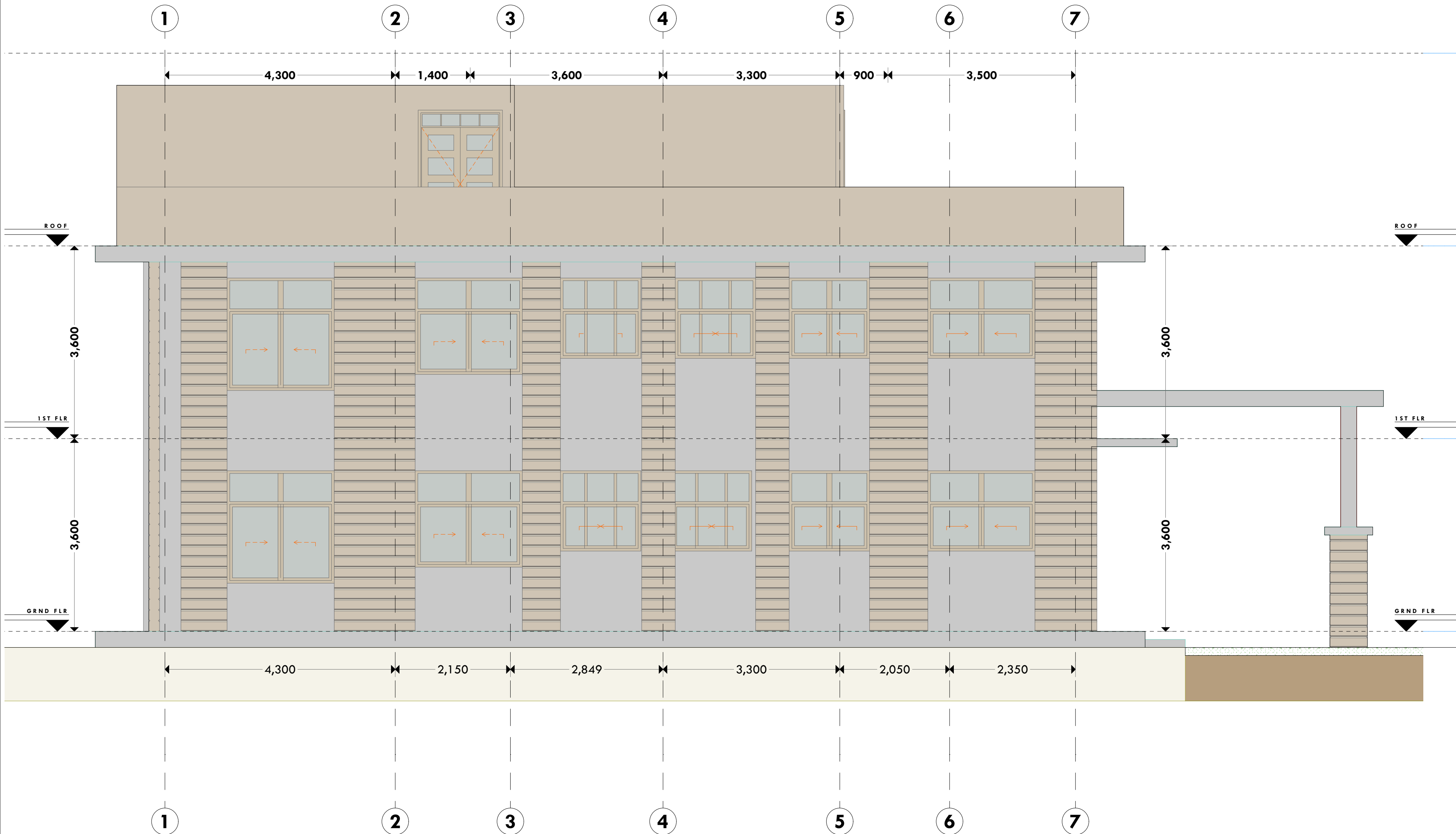
Consultancy :
ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website : www.arprimconsultants.com

Drawn by: PETER MOMANYI B. Arch. (Hons),	Checked by :- F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by :- J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
-------------------------------------------------------	----------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------

ate: NOV 2023	Job No . 2023/Nov/KIDONGO
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scale 1:100

WEST ELEVATION



NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant standards for local authorities.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPS or waste pipes. All bends and junctions to have transition plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8 497 class A and S255 cast iron to comply to BS8 497 table 6 grade C except ones in the manholes which shall be cast iron to comply to BS8 497 table 6 grade C.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8 497 table 6 grade C
19. Storm water drains shall be made of uPVC S255.
20. Minimum slopes to drains shall be 1%.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of The Structural Engineer.
23. All testing of pipes must be completed before plastering.

The mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors

27. Provide underground water tank with automatic electric booster pump for ring main

28. provide automatic push button fire alarm system

29. provide heat and smoke detectors in each room

provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project : **PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**MSAMBWENI, KWALE
COUNTY**

Client:

**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 009

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website :www.arprimconsultants.com

Drawn by: PETER MOMANYI B. Arch. (Hons),	Checked by :- F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by :- J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
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ate:NOV 2023	Job No . 2023/Nov/KIDONGO
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Scale 1:100

X-X SECTION

The drawing is a vertical section labeled 'X-X SECTION'. It shows a building with three floors above ground and a sub-structure below. A central lift shaft is labeled 'LIFT SHAFT' with 'LIFT HEAD' at the top and 'LIFT PIT' at the bottom. To the right of the shaft is a staircase with blue steps and a handrail. The drawing includes various dimensions: horizontal dimensions at the top and bottom (3,500, 900, 3,300, 3,600, 1,400, 4,300) and vertical dimensions on the right (1,200, 3,000, 600, 3,600, 5,600). Level markers on the left indicate heights: +10.800 (3 Story), +7.200 (2 Story), +3.600 (1 Story), and ±0.000 (0 Ground Floor). Material specifications are provided for the roof, handrail, door, and sub-structure. A note about the balcony balustrade is also present.

ROOF SPECIFICATIONS
150mm thick Roof Slab with waterproofing admixtures, covered with Interlocking Tiles. Slab sloping to drainage fulboras waterproofed with Bituminous Membrane.

HANDRAIL
1000mm high S/S handrail
50mm dia.
40mm dia Balustrades @ 1000mm C/C.

DOOR
Polished Varnished Mvule door to schedule.

SUB-STRUCTURE
150mm thick R.C Slab (1:1.5:3) with 1000gauge Polythene.
BRC mesh A142 sheeting as DPM.
50mm thick Murram Blinding.
300mm thick Compacted Hardcore.
Anti-Termite Treatment.
600 X 200mm Strip Foundation to S.E approval.

10mm thick toughened/tempered glass balcony balustrade wall framed with 75mm dia x 2mm thick stainless steel grade 316 CHS Balustrade Rails to approval

600X600mm Granito Tile F/F

600X600mm Granito Tile F/F

Interlocking Clay Tiles on waterproofed R.C.

Interlocking Clay Tiles on waterproofed R.C.

LIFT HEAD

LIFT SHAFT

LIFT PIT

3,500 900 3,300 3,600 1,400 4,300

3,500 900 3,300 3,600 1,400 4,300

10.800 7.200 3.600 ±0.000

3 Story 2 Story 1 Story 0 Ground Floor

26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors

27. Provide underground water tank with automatic electric booster pump for ring main

28. provide automatic push button fire alarm system

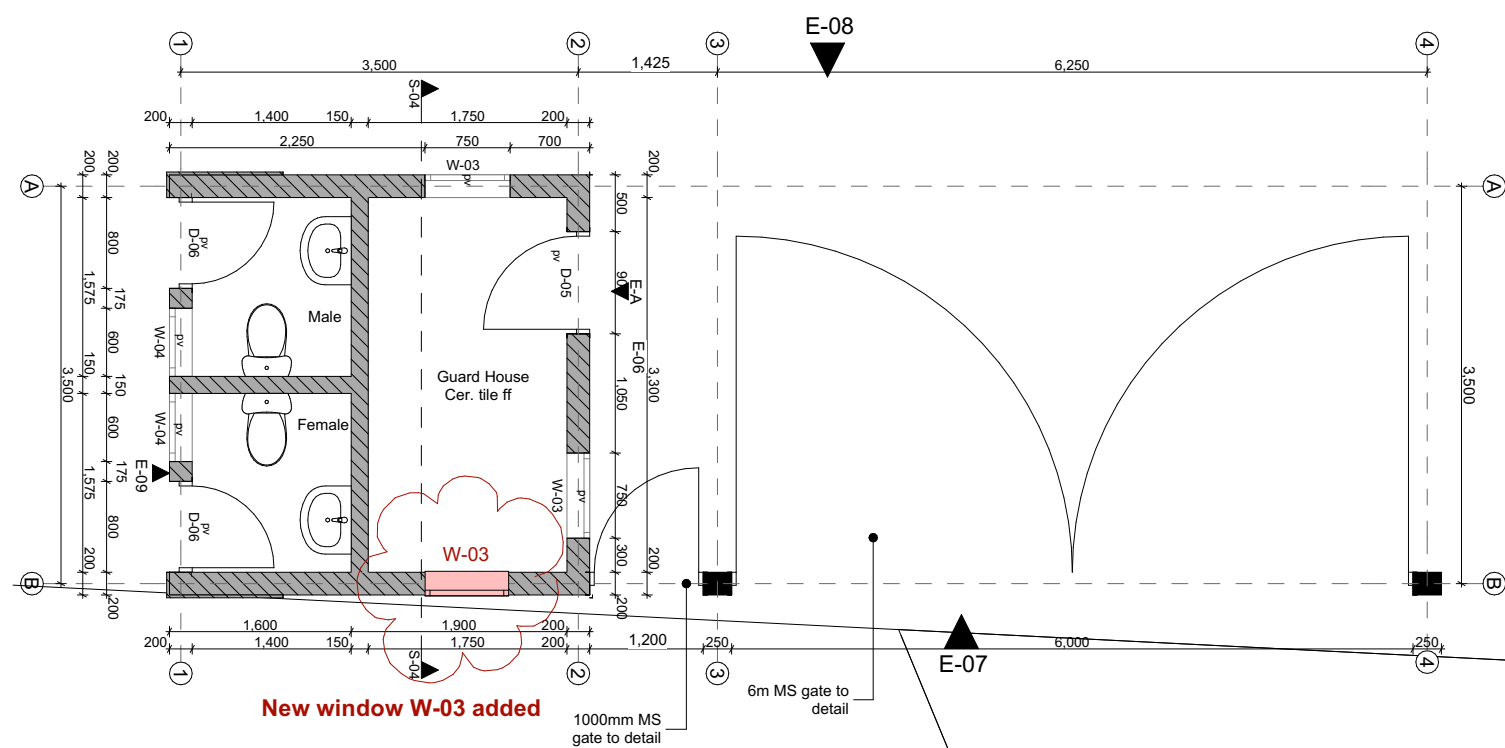
29. provide heat and smoke detectors in each room

provide 9kg. dry powder fire extinguishers to ME specifications

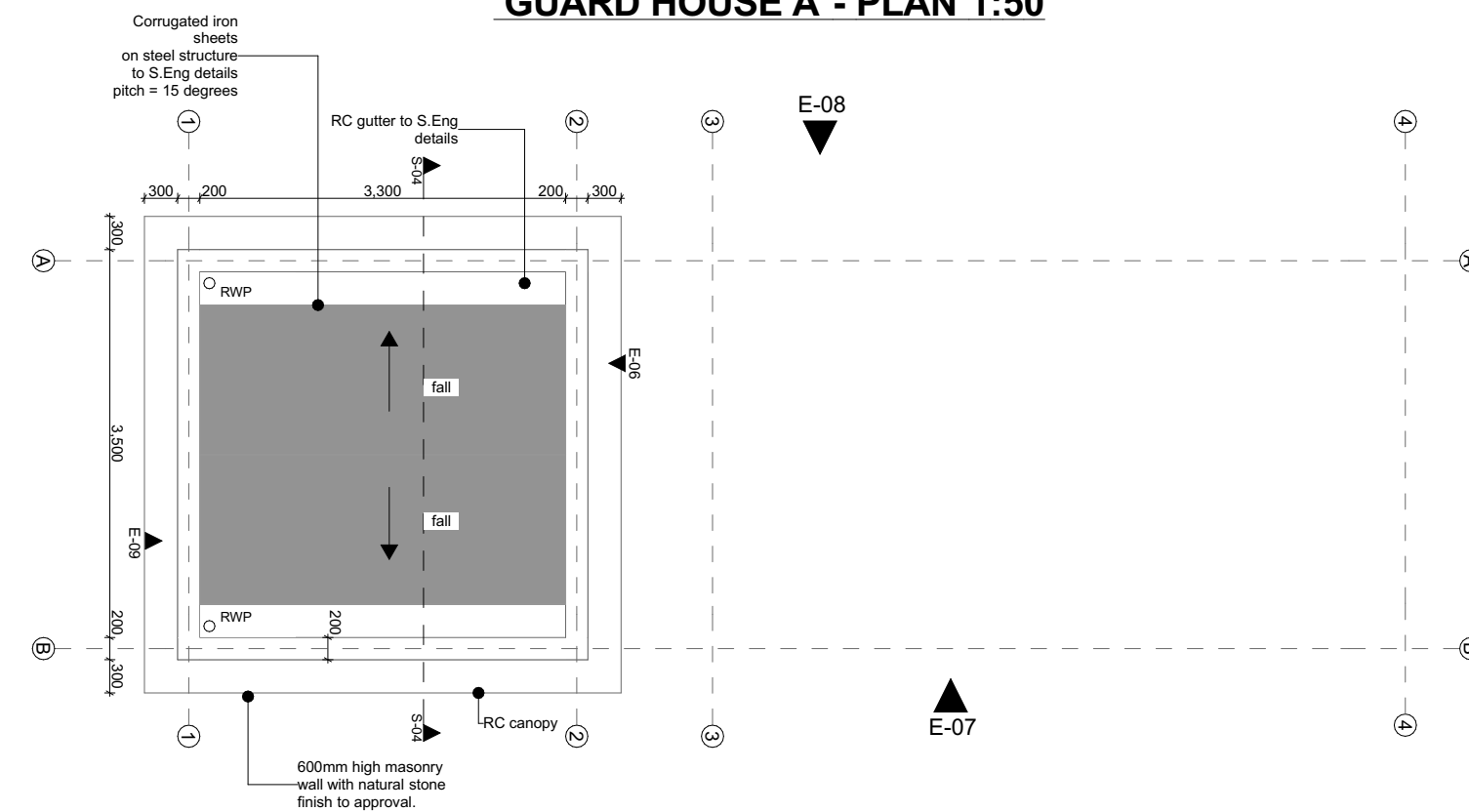
[illegible]

ate: NOV 2023	Job No. 2023/Nov/KIDONGO
Scale 1:100	

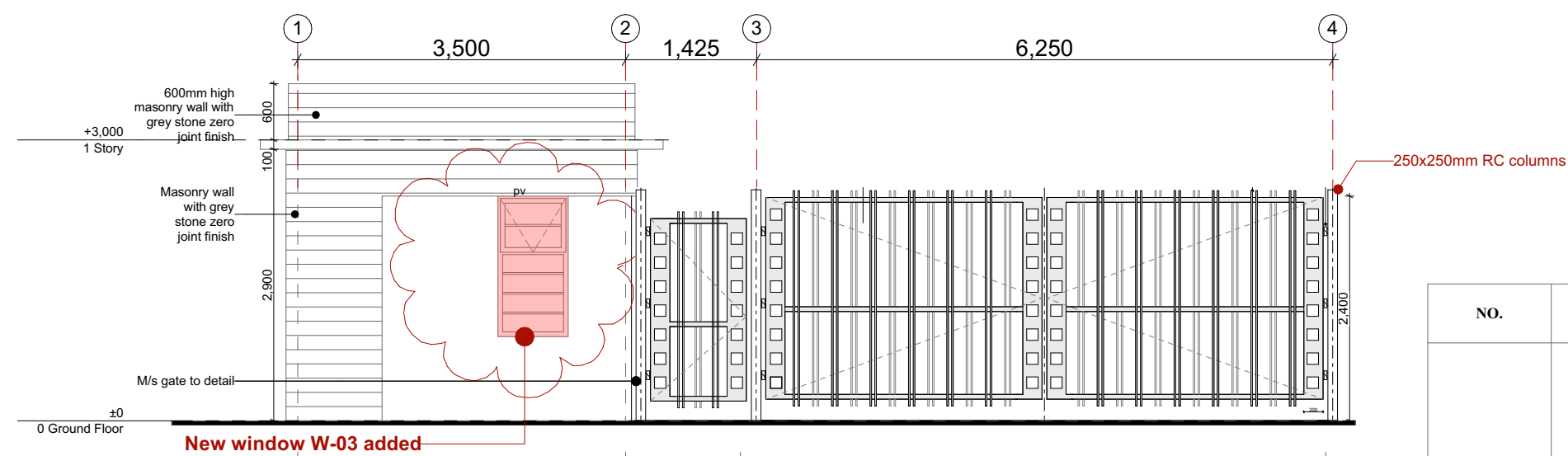
GATE HOUSE



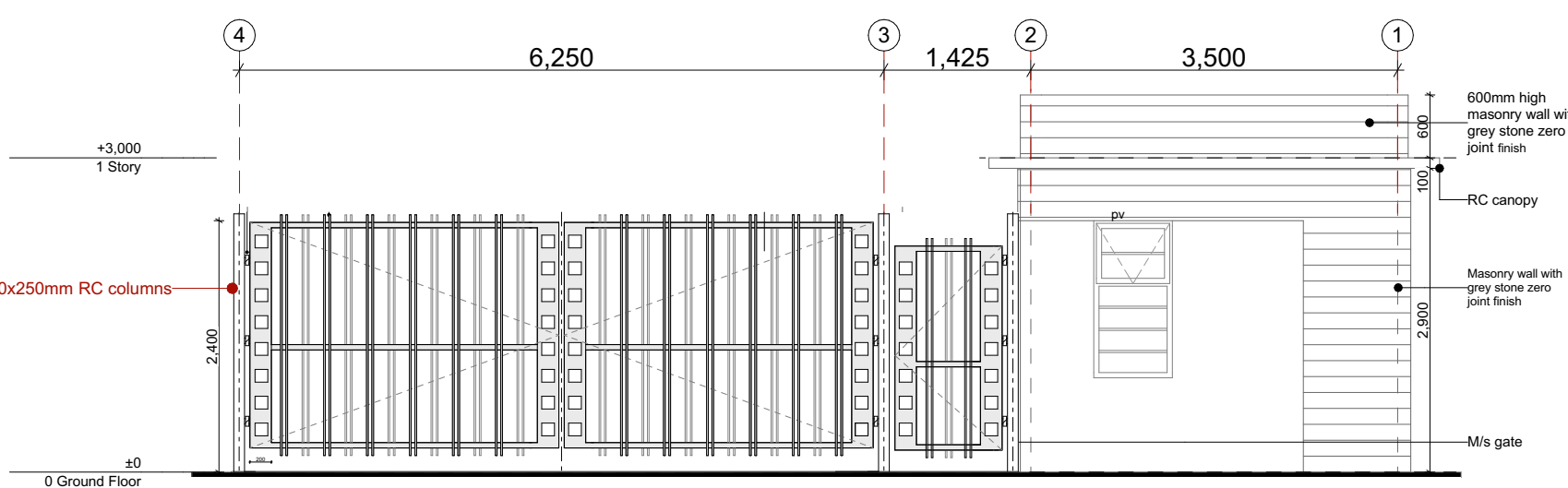
GUARD HOUSE A - PLAN 1:50



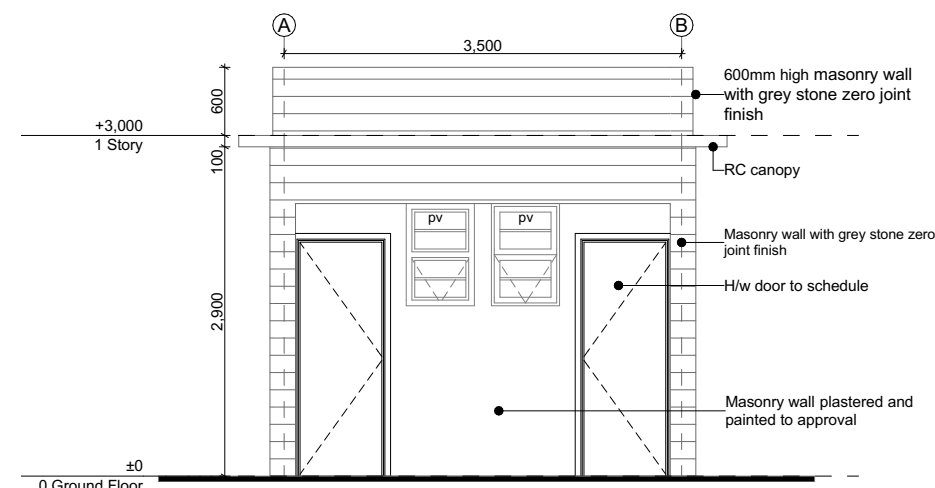
GUARD HOUSE A - ROOF PLAN 1:50



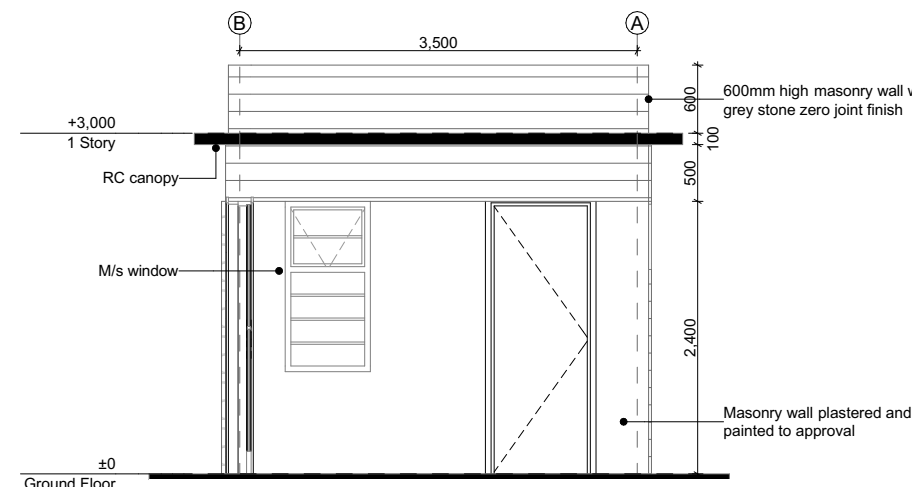
GUARD HOUSE A - FRONT ELEVATION
07 1:50



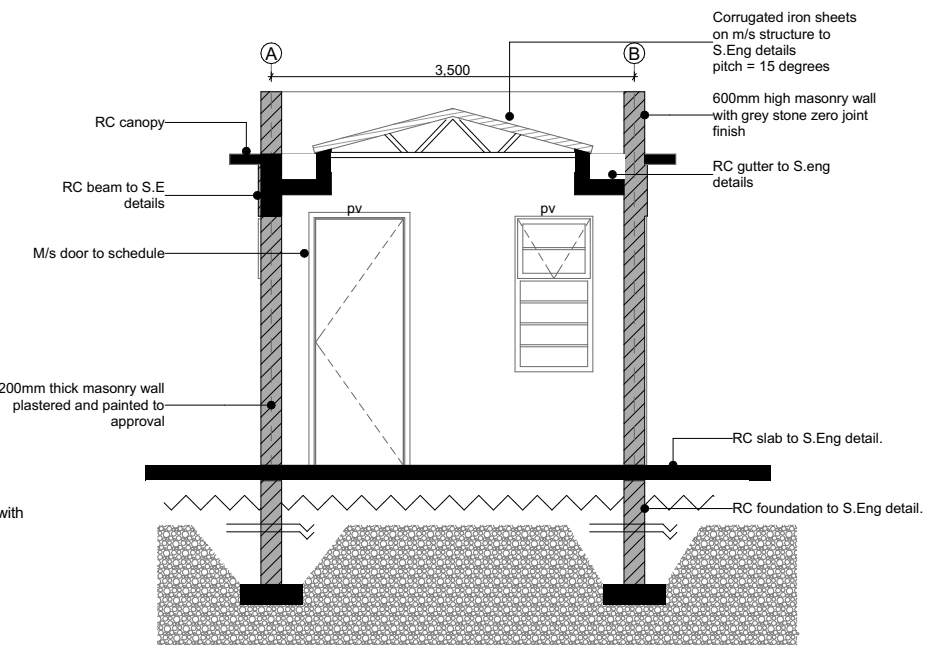
GUARD HOUSE A - REAR ELEVATION 08 1:50



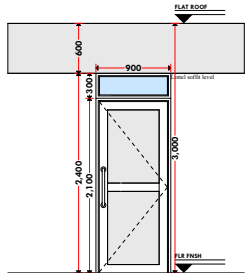
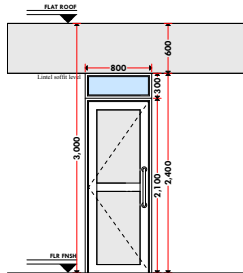
GUARD HOUSE A - SIDE ELEVATION 09 1:50



GUARD HOUSE A - SIDE ELEVATION 06 1:50



GUARD HOUSE A - SECTION 04 1:50

NO.	D - 0 1	D - 0 2
DESIGN		
LOCATION	GUARD HOUSE OFFICES	WASHROOMS
DESCRIPTION	2,100 X 900mm Powder Coated Aluminium Door Panel. Sand Blasted 5mm thick Glass Panel within the Aluminium Frame. 2,600 X 900mm Powder Coated Aluminium door frame with 200 X 50mm section. 900 X 500mm Fanlight with P.V.	2,100 X 800mm Powder Coated Aluminium Door Panel. Sand Blasted 5mm thick Glass Panel within the Aluminium Frame. 2,600 X 800mm Powder Coated Aluminium door frame with 200 X 50mm section. 800 X 500mm Fanlight with P.V.
QUANTITIES	0 1	0 2

NO.	W - 01	W - 02
DESIGN		
LOCATION	WASHROOMS	GUARD HOUSE OFFICES
QUANTITIES	02	03
DESCRIPTION	<p>Powder coated aluminium framed sliding windows complete with ironmongery, mullions, transoms, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips, couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally panes fixed with 6mm thick one way glass fixed with beadings.</p>	

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.

2. The contractor must check and verify all dimensions and dimensions shown on drawings. Any discrepancy must be notified to the architect.

3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.

5. All slab at grade to be poured on 1000G gauge polyethene 50mm stone dust blinding on compacted hardcore.

6. All soils under slab and around external foundation to be treated for termite control.

7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.

10. Depth of foundation to be determined on site to SE approval.

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

MECHANICAL

12. All plumbing and drainage to comply with the relevant approving local authority's specifications.

13. All service ducts to be accessible from all floors.

14. Deep seal or anti-vac to all fittings connected to the SVPs or waste pipes. All bends and junctions to have inspection plates.

15. SVP to be provided at the head of the drainage.

16. Drain pipes passing beneath buildings and driveways to be installed in 150mm concrete surround.

17. All underground foul and waste drain pipes shall be UPVC and comply to BS5 414 and BS5 556, cast iron to comply to BS5 457 table G/C except ones in the driveway which shall comply to BS5 556.

18. All inspection chamber covers and frames shall be cast iron to comply to BS5 457 table G/C except frames for 900mm storm water drain shall comply to BS5 556.

20. Minimum slopes to drains shall be 1%.

21. No chasing will be allowed in the slabs for pipes.

22. All electrical to be allowed in the slabs with the written approval of the Structural Engineer.

23. All testing of pipes must be completed before plastering.

24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.

25. All electrical to be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors

27. Provide underground water tank with automatic electric booster pump for ring main

28. provide automatic push button fire alarm system

29. provide heat and smoke detectors in each room provide 9kg dry powder fire extinguishers to ME specifications

[illegible]

Project : **PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.: _____

Location : _____

**MSAMBWENI, KWALE
COUNTY**

Client:

**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 011

Signature
Subject :

WORKING DRAWINGS.

Consultancy :
ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website :www.arprimconsultants.com

Drawn by: PETER MOMANYI B. Arch. (Hons),	Checked by :- F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by :- J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
-------------------------------------------------------	-----------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

Date: NOV 2023	Job No. 2023/Nov/KIDONGO
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Scale 1:100

DOOR SCHEDULE

NO.	D - 0 1	D - 0 2	D - 0 3	D - 0 4	D - 0 5	D - 0 6
DESIGN						
LOCATION	MAIN ENTRANCE EXIT, SOLAR BACKUP ROOM	OFFICES	WASHROOMS	P W D	WASHROOM CUBICLES	BOARDROOM OPEN PLAN OFFICE
DESCRIPTION	2,100 X 1,800mm Polished Mvule double panelled door. 2,600 X 1,800mm Polished Mvule door frame with 200 X 50mm section. 1,800 X 500mm Fanlight with P.V.	2,100 X 900mm Powder Coated Aluminium Door Panel. Sand Blasted 5mm thick Glass Panel within the Aluminium Frame. 2,600 X 900mm Powder Coated Aluminium door frame with 200 X 50mm section. 900 X 500mm Fanlight with P.V.	2,100 X 800mm Powder Coated Aluminium Door Panel. Sand Blasted 5mm thick Glass Panel within the Aluminium Frame. 2,600 X 800mm Powder Coated Aluminium door frame with 200 X 50mm section. 800 X 500mm Fanlight with P.V.	Single acting overall size 1100mm x 2600mm solid mahogany mvule door high comprising 500 mm high fanlight.	2,100 X 800mm Mvule Louvred Door Panel. 150 X 100mm Polished Mvule Door Frame.	2,100 X 1,500mm Powder Coated Aluminium Door Panel. Sand Blasted 5mm thick Glass Panel within the Aluminium Frame. 2,600 X 1,500mm Powder Coated Aluminium door frame with 200 X 50mm section. 1,500 X 500mm Fanlight with P.V.
QUANTITIES	0 4	2 0	0 5	1 2	0 9	0 2

NOTES:

GENERAL

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2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant standards.
13. All services to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SWP or service pipes. All bends and junctions to have a minimum 100mm radius.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be installed in 150mm concrete surround.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8541 and 5225. cast iron to comply to BS8547 table 6 grade C except ones in the basement.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8547 table 6 grade C except ones in the basement.
19. Storm water pipes shall be UPVC to comply to BS5925.
20. Minimum slopes to drains shall be 1%.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with the electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. Provide automatic push button fire alarm system
29. Provide heat and smoke detectors in each room
30. Provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :
**PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**MSAMBWENI, KWALE
COUNTY**

Client :
**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 012

Signature

Subject :

WORKING DRAWINGS.

Consultancy

ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website :www.arprimconsultants.com

Drawn by: TER MOMANYI Arch. (Hons),	Checked by :- F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by :- J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
--------------------------------------------------	----------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------

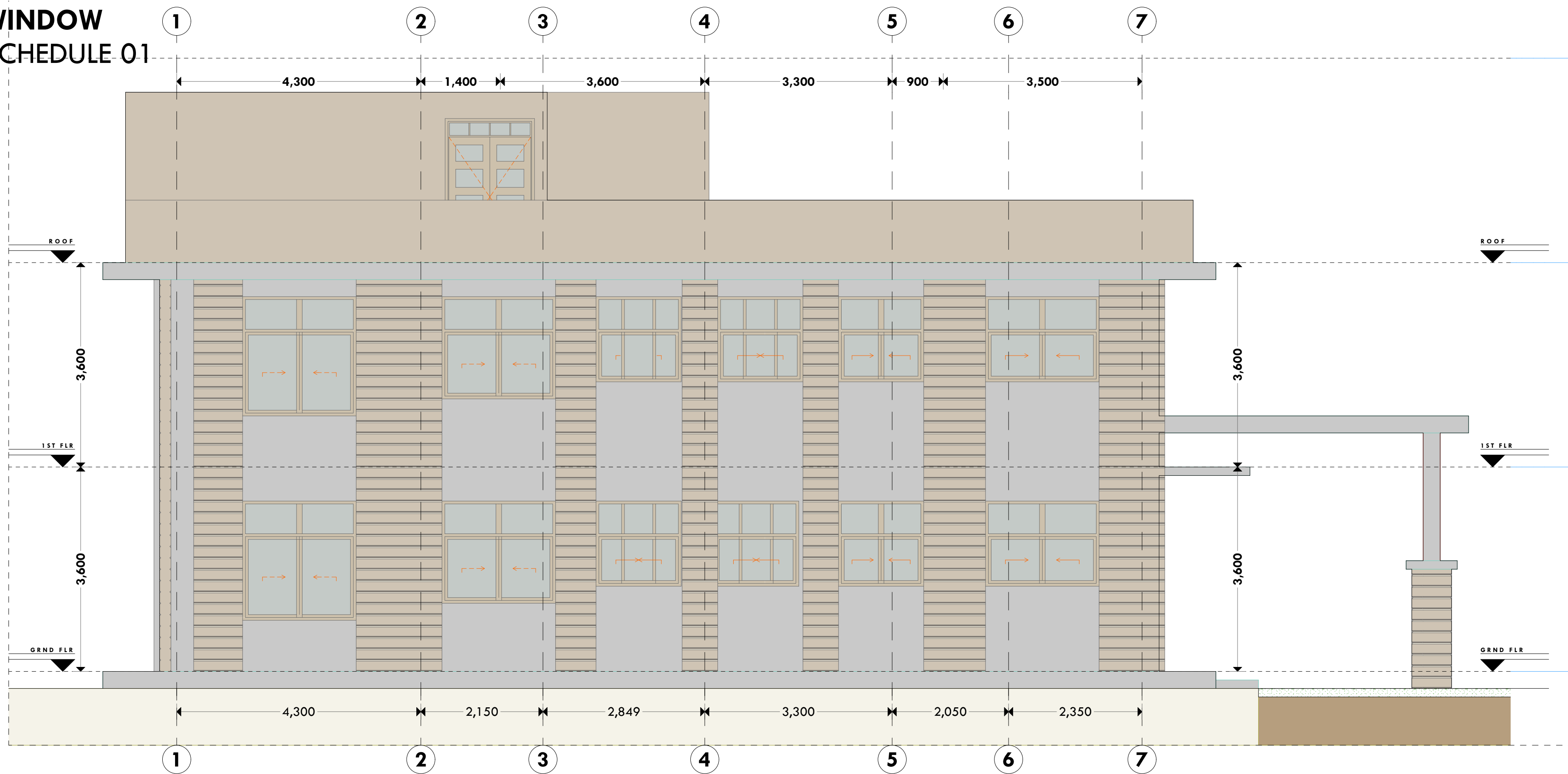
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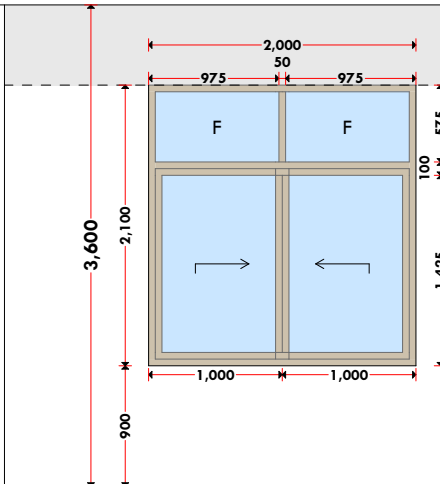
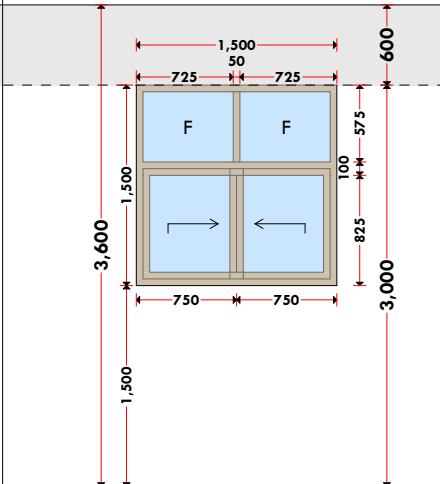
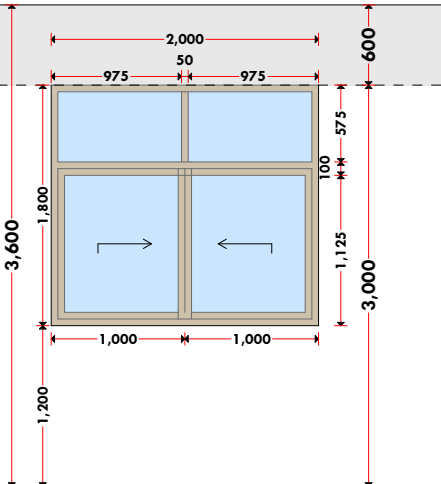
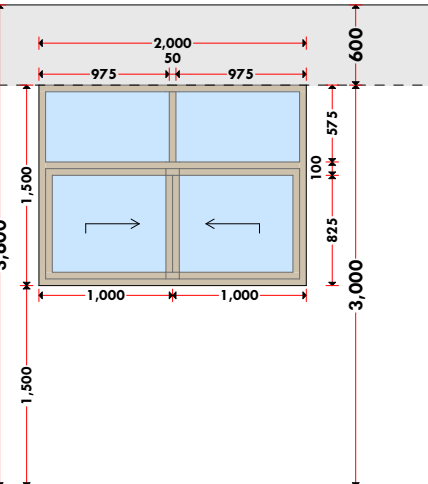
Job No. 2023/Nov/KIDONGC

scale 1:100

Job No. 2023/Nov/KIDONGC

WINDOW SCHEDULE 01



WINDOW DESIGN					
					
NAME	W - 01	W - 02	W - 03	W - 04	
QUANTITY	04	02	02	04	
LOCATION					
SPECIFICATIONS	Powder coated aluminium framed sliding windows complete with ironmongery, mullions, transoms, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips, couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally; panes fixed with 6mm thick one way glass fixed with beadings.				

NOTES:

GENERAL

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000 gauge polythene on 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL
C. All

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant standards for local authority approval.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SVPs or service pipes. All bends and junctions to have transition plates.
15. SVP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS8 497:14 and S255. cast iron to comply to BS8 497:14 type B grade C except ones in the manholes which shall be cast iron.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8 497:14 type B grade C
19. Storm water drains shall be cast iron to comply to BS8 497:14 type B grade C
20. Minimum slopes to drains shall be:
 - a) 1:100
 - b) 1:200
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of The Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project :
**PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**MSAMBWENI, KWALE
COUNTY**

Client:

**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 013

Signature

Subject : **WORKING DRAWINGS.**

Consultancy :
ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website : www.arprimconsultants.com

Drawn by: PETER MOMANYI B. Arch. (Hons), (reg. No.A1122)	Checked by :- F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by :- J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
--------------------------------------------------------------------------	----------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------

ate: NOV 2023 | Job No . 2023/Nov/KIDONGO

scale 1:100

A



**WINDOW
DESIGN**

NAME**QUANTITY****LOCATION**

SPECIFICATIONS

powder coated aluminium framed sliding windows complete with ironmongery, mullions, transoms, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips, couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally; panes fixed with 6mm thick one way glass fixed with beadings.

GENERAL

- ### CONSTRUCTION
4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
 5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
 6. All soils under slab and around external foundation to be treated for termite control.
 7. Window cills must be finished before internal plastering

not to exc

- STRUCTURAL**
9. All RC works to Structural Engineer's details.
 10. Depth of foundation to be determined on site to SE approval.
 11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

1.3. All ser

4. Deep seal or anti-vac to all fittings connected to the SVP or waste pipes. All bends and junctions to have inspection plates.
5. SVP to be provided at the head of the drainage.
6. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
7. All underground drainage pipes and manholes shall be UPPVC and comply to BS5 4514 and 5255, cast iron to comply to BS5 497 table 6 grade C except in the driveway which shall comply to BS 550.
8. All inspection chamber covers and frames shall be cast iron to comply to BS5 497 table 6 grade C except.
9. Storm water drain shall comply to BS 556.
10. Minimum slope 1 in 40.
11. No chasing will be allowed in the slabs for pipes.
12. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
13. All testing of pipes must be completed before plastering.
14. All mechanical works must be co-ordinated with the electrical works. Any conflicts must be clarified before work begins.

25. All ele
mechanica

- FIRE**
26. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 5kg. dry powder fire extinguishers to ME specifications

[illegible]

Plot L. R. No.:

Client :
**STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

Signature

Subject :

WORKING DRAWINGS.

Consultancy :
ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website : www.arprimconsultants.com

Drawn by: TER MOMANYI Arch. (Hons),	Checked by :- F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by :- J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
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ate: NOV 2023 | Job No . 2023/Nov/KIDONGO

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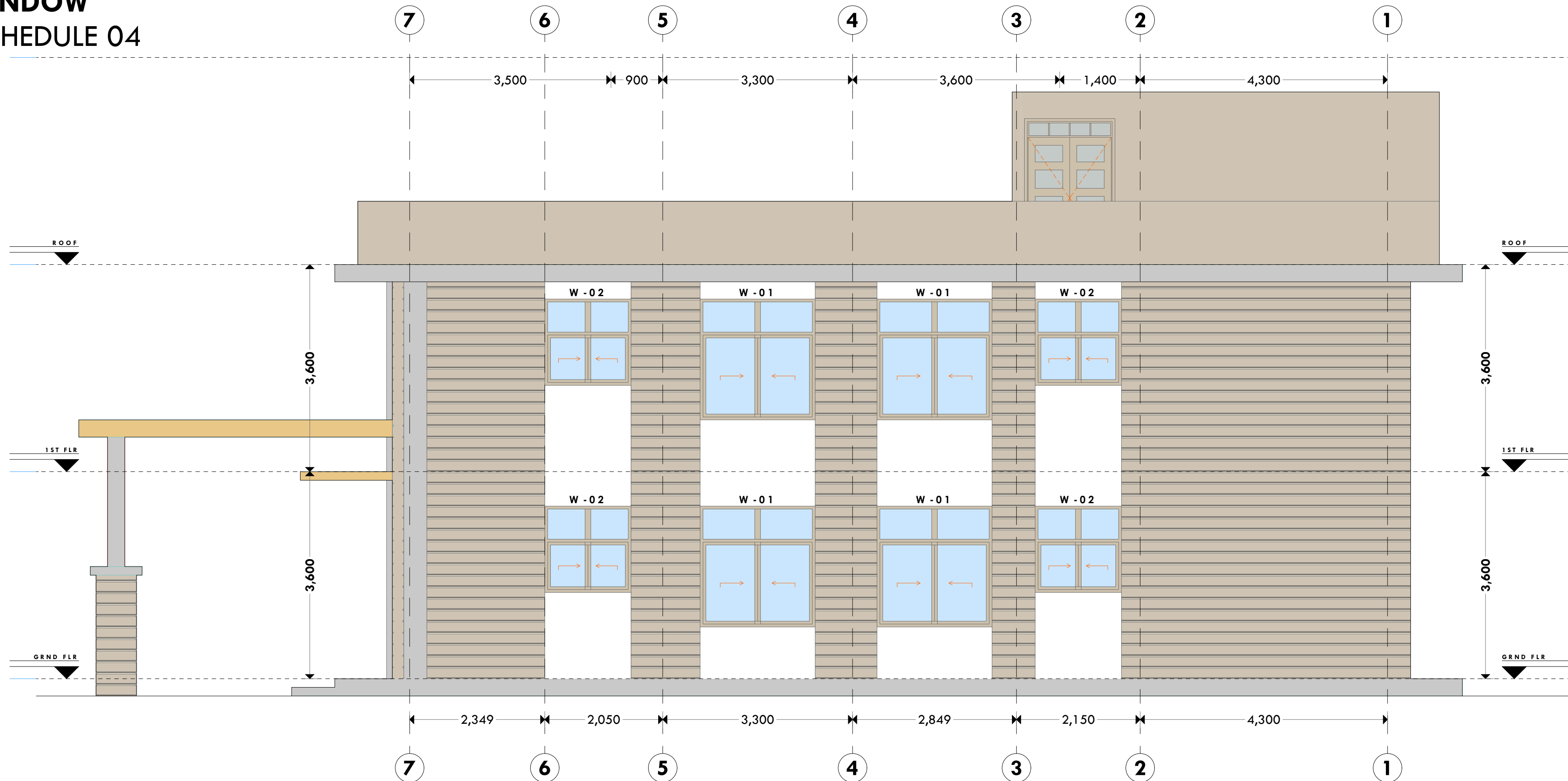
SPECIFICATIONS

Project : PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT		
Plot L. R. No.:		
Location : MSAMBWENI, KWALE COUNTY		
Client : STATE DEPARTMENT FOR FISHERIES AQUACULTURE AND THE BLUE ECONOMY		
DRAWING NO. 06 - 001 - 015		
Signature		
Subject : WORKING DRAWINGS.		
Consultancy : ARPRIM CONSULTANTS P.O BOX 12969-0040 NAIROBI TEL: 020-884312/8 Website :www.arprimconsultants.com		
Drawn by: PETER MOMANYI B. Arch. (Hons),	Checked by : - F. TUNDULI B. Arch. (Hons) . M. Arch. (reg. No.A1552)	Checked by : - J. MOMANYI B. Arch. (Hons) . M. Arch. (reg.No.A1122)
Date:NOV 2023	Job No. : 2023/Nov/KIDONGO	
Scale : 1:100		

Scale 1:100	
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WINDOW

SCHEDULE 04



WINDOW DESIGN			
NAME	W - 01	W - 02	
QUANTITY	04	04	
LOCATION			
SPECIFICATIONS	<p>powder coated aluminium framed sliding windows complete with ironmongery, mullions, transomes, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips,couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally; panes fixed with 6mm thick one way glass fixed with beadings.</p>		

NOTES:

GENERAL

1. All measurements are shown in millimeters. Measurements should not be scaled off the drawing.
2. The contractor must check and verify all dimensions before commencing any work. Any discrepancy must be notified to the architect.
3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the designer and clarified by consulting the respective consultants' drawings.

CONSTRUCTION

4. Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
5. All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
6. All soils under slab and around external foundation to be treated for termite control.
7. Window cills must be finished before internal plastering

CIVIL

8. All soils on cut embankment to be stabilized. The slope is not to exceed the natural angle of repose of the soil.

STRUCTURAL

9. All RC works to Structural Engineer's details.
10. Depth of foundation to be determined on site to SE approval.
11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.

MECHANICAL

12. All plumbing and drainage to comply with the relevant approval local authority's specifications.
13. All services to be accessible from all floors.
14. Deep seal or anti-vac to all fittings connected to the SWP or waste pipes. All bends and junctions to have access plates.
15. SWP to be provided at the head of the drainage.
16. Drain pipes passing beneath buildings and driveways to be encased in 150mm concrete surround.
17. All underground drainage pipes and manholes shall be UPVC and comply to BS5 4514 and 5255, cast iron to comply to BS5 497 table 6 grade C except ones in the street.
18. All inspection chamber covers and frames shall be cast iron to comply to BS5 497 table 6 grade C except.
19. Storm water drain shall comply to BS5 550.
20. Minimum slope shall be 1 in 100.
21. No chasing will be allowed in the slabs for pipes.
22. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
23. All testing of pipes must be completed before plastering.
24. All mechanical works must be co-ordinated with electrical works. Any conflicts must be clarified before work begins.

ELECTRICAL

24. All conduits must be laid before plastering.
25. All electrical work must be co-ordinated with mechanical works. Any conflicts must be clarified before work begins.

FIRE

26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
- provide 9kg. dry powder fire extinguishers to ME specifications

REVISIONS

[illegible]

Project : **PROPOSED KENYA MARINE
FISHERIES AND SOCIO-ECONOMIC
DEVELOPMENT**

Plot L. R. No.:

Location :
**MSAMBWENI, KWALE
COUNTY**

Client : **STATE DEPARTMENT FOR FISHERIES
AQUACULTURE AND THE BLUE
ECONOMY**

DRAWING NO.

06 - 001 - 016

Signature

Subject :

WORKING DRAWINGS.

Consultancy :

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P.O BOX 12969-0040 NAIROBI
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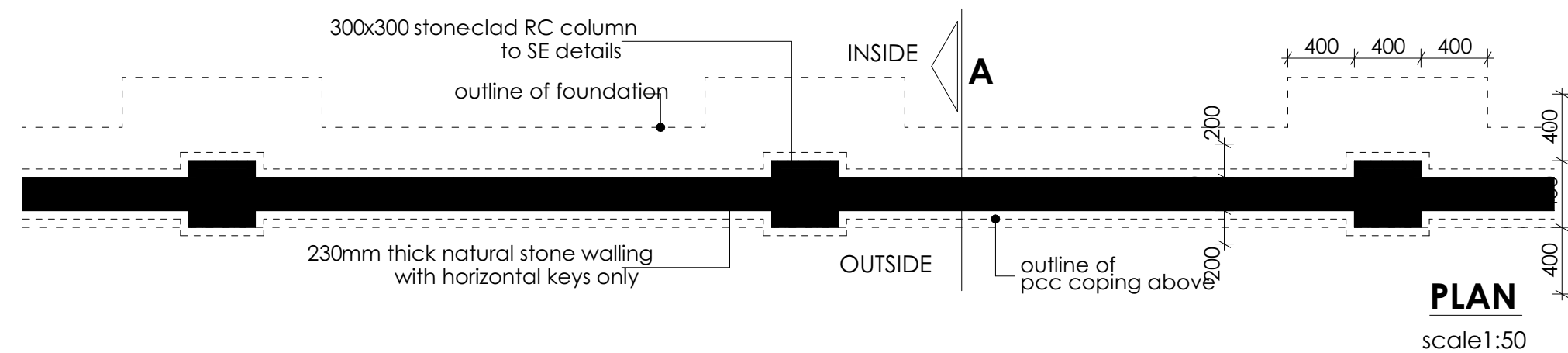
Date: NOV 2023	Job No . 2023/Nov/KIDONGO
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Scale 1:100

3D VIEWS

A 3D architectural rendering of a modern building with a wooden facade and large windows. The building is shown from a low angle, emphasizing its height. It features a prominent wooden slat facade and large, multi-paned windows. A small inset image in the top right corner shows a different view of the building, highlighting its corner and the surrounding green landscape. The main rendering includes a small blue circle on the upper left corner of the building's facade and a small black crosshair on the lower right corner of the building's facade. The building is set on a green lawn with a black path leading towards it. The sky is a clear, light blue.

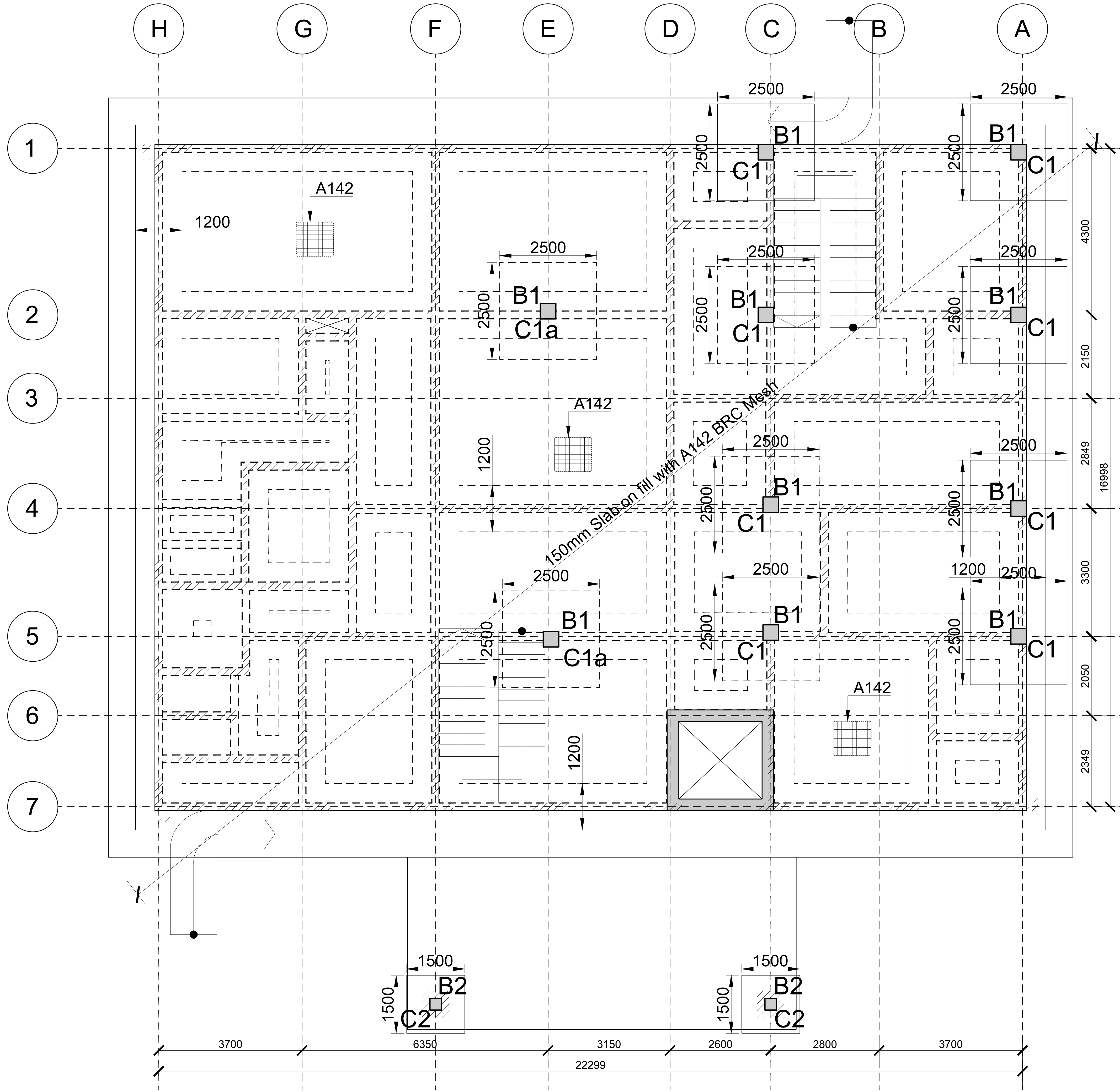
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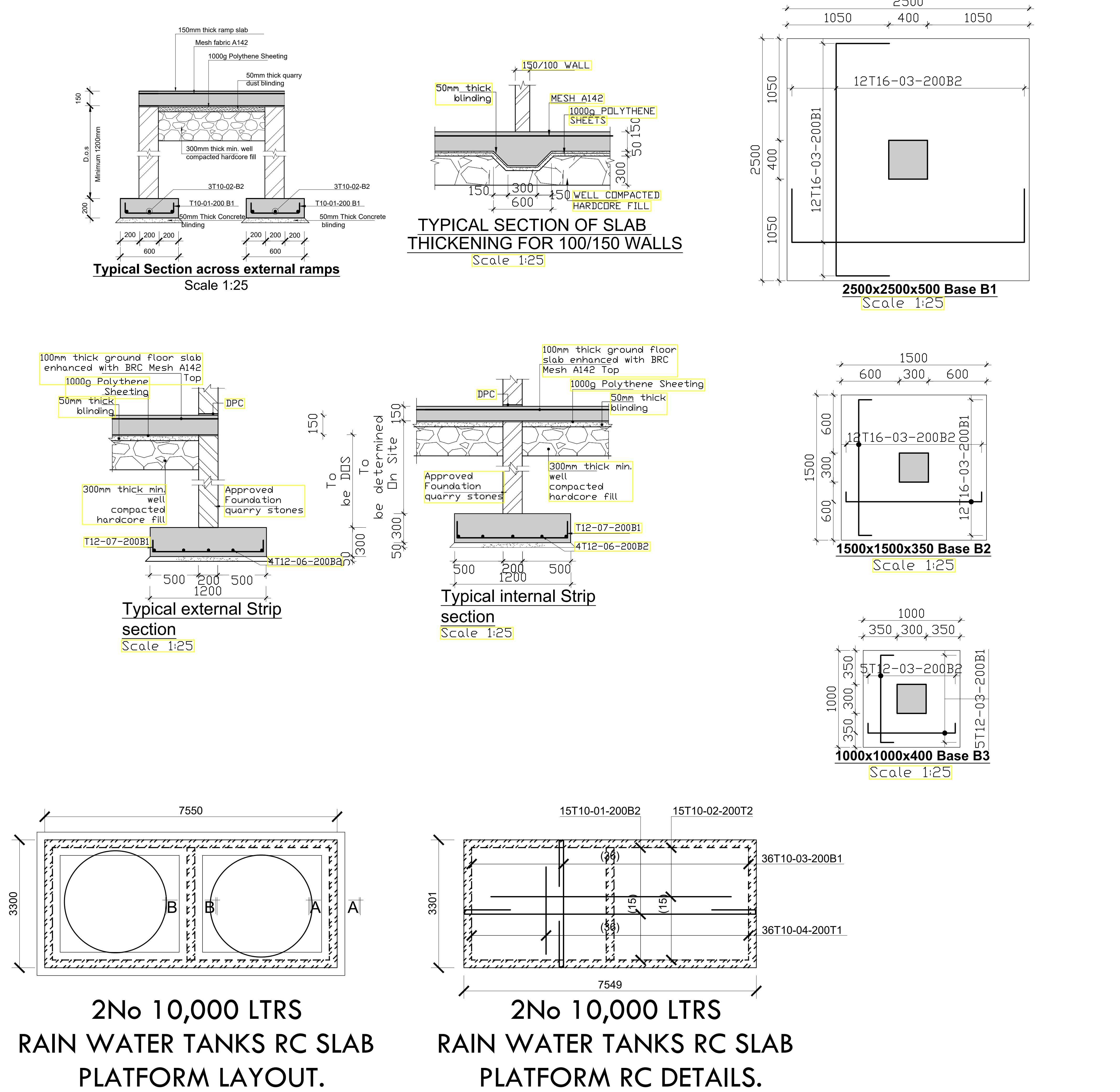
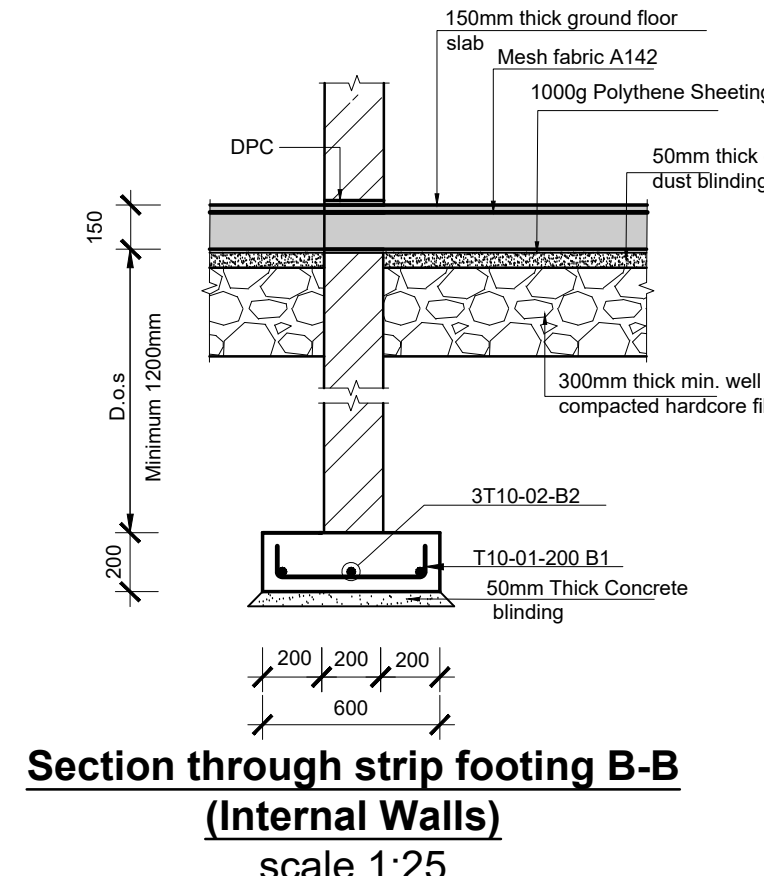
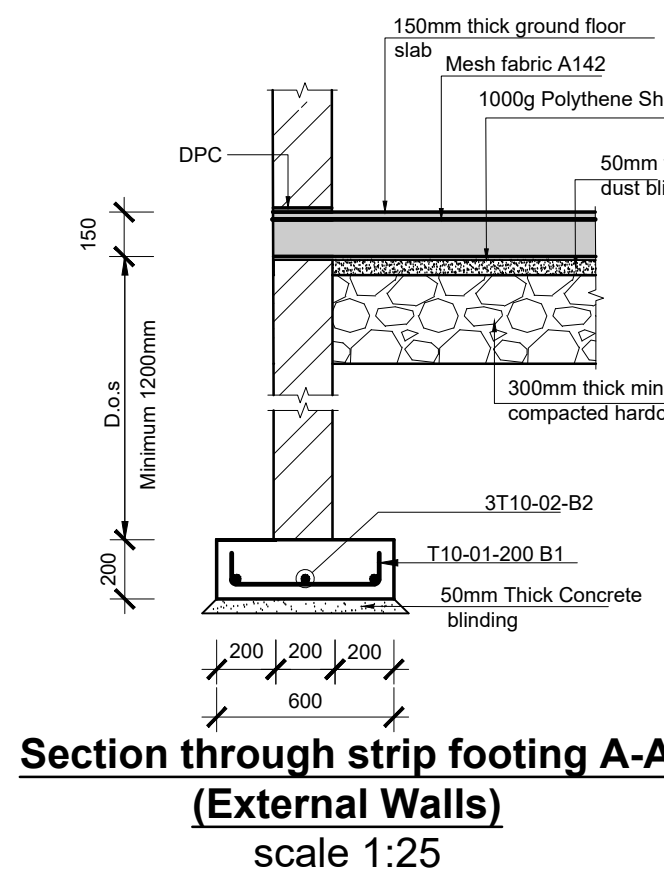
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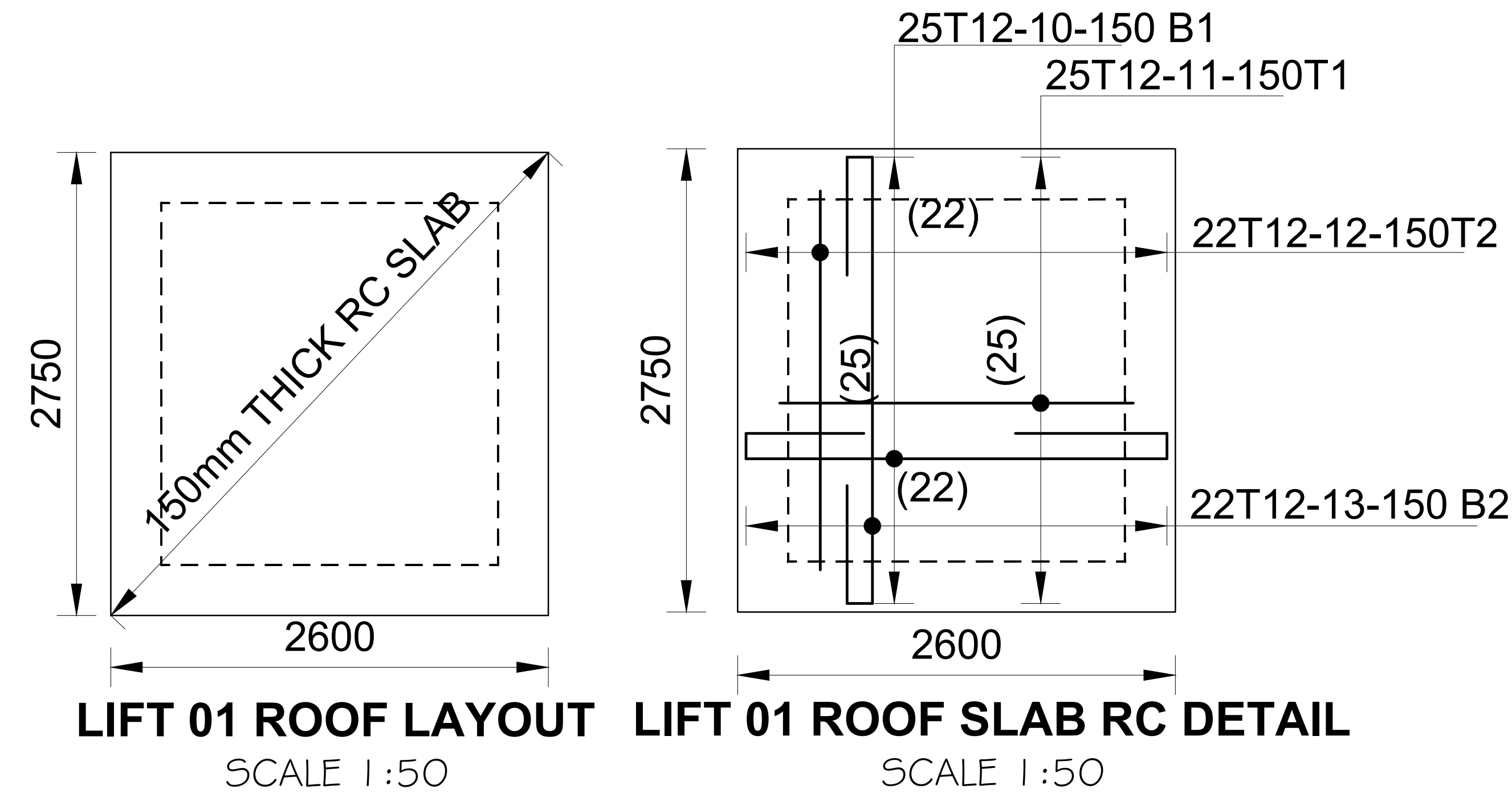
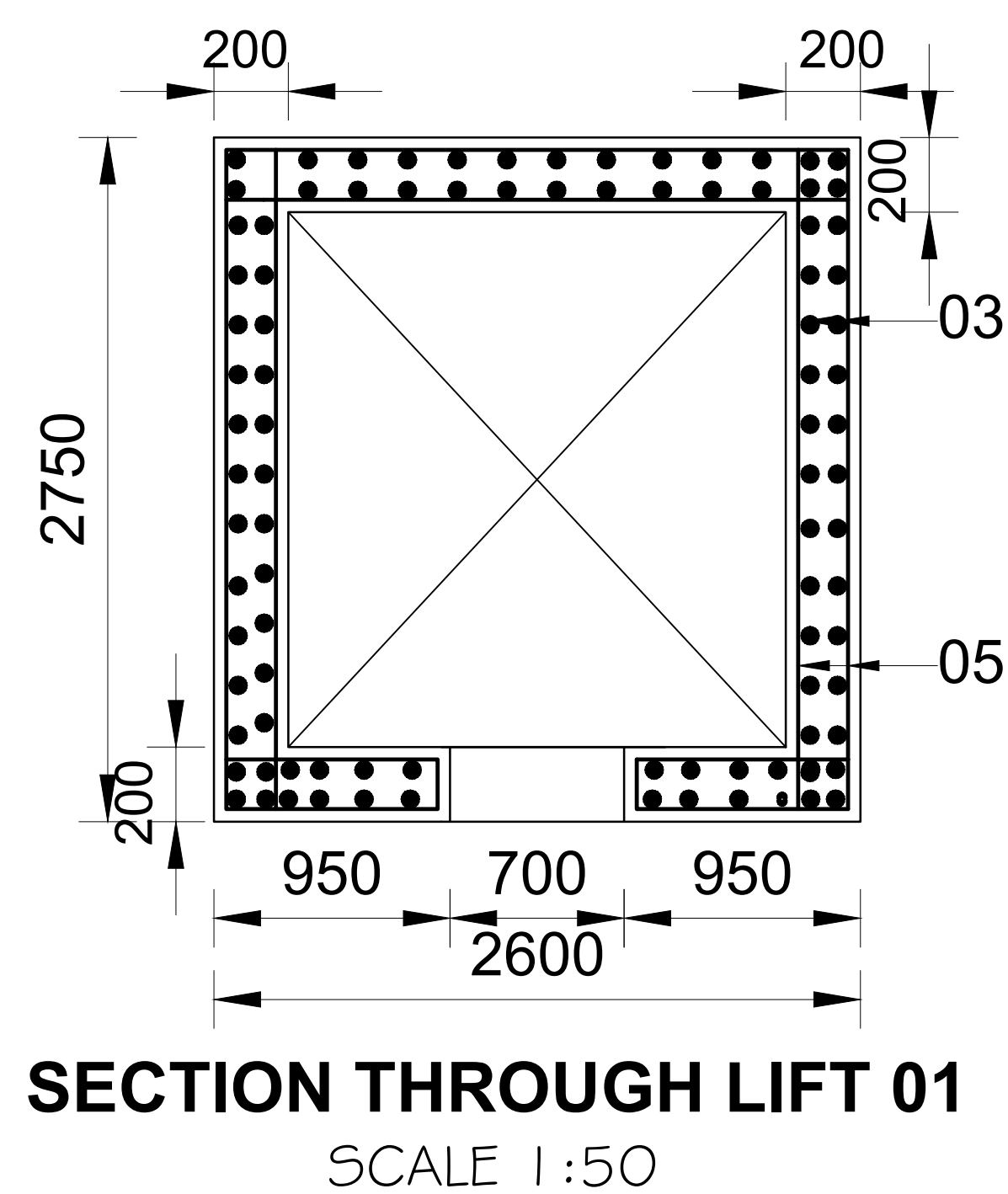
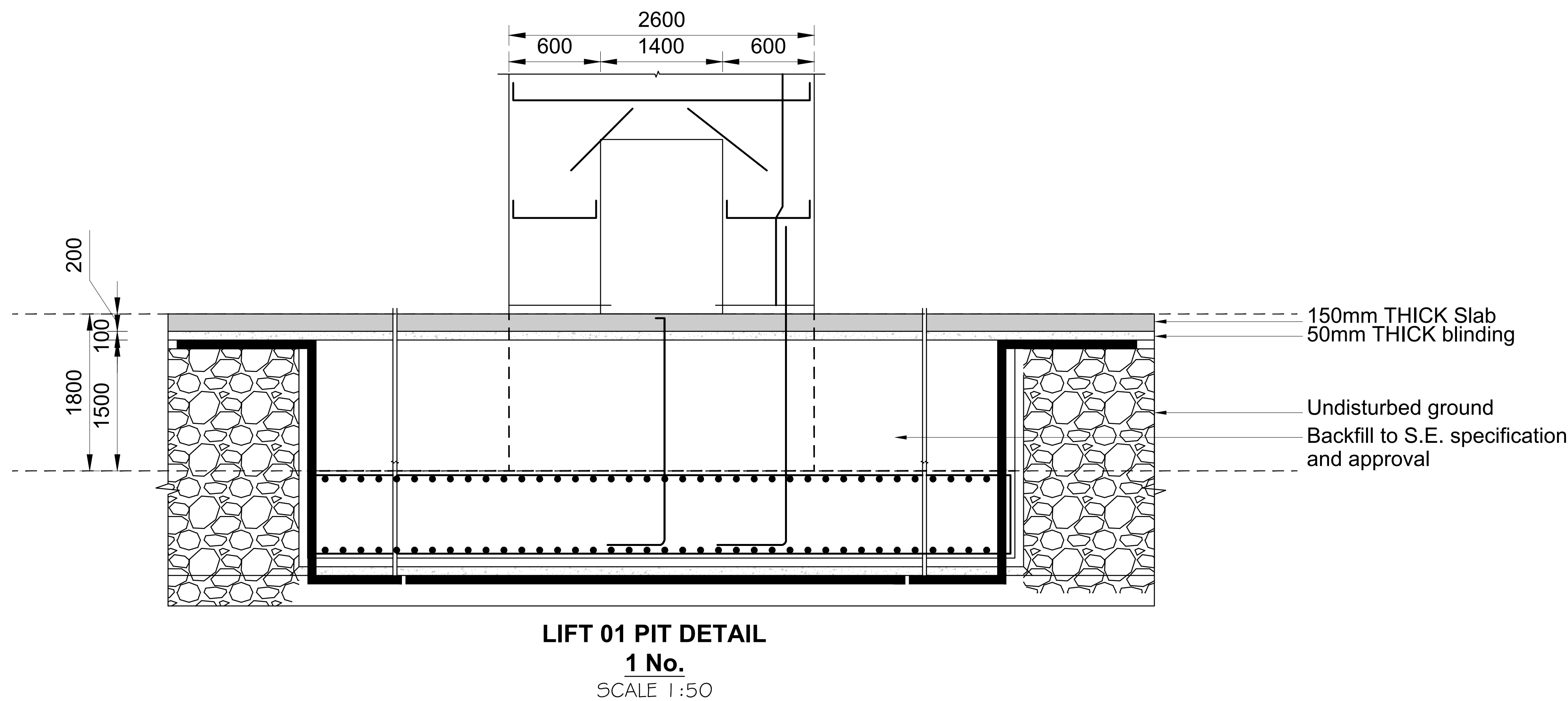
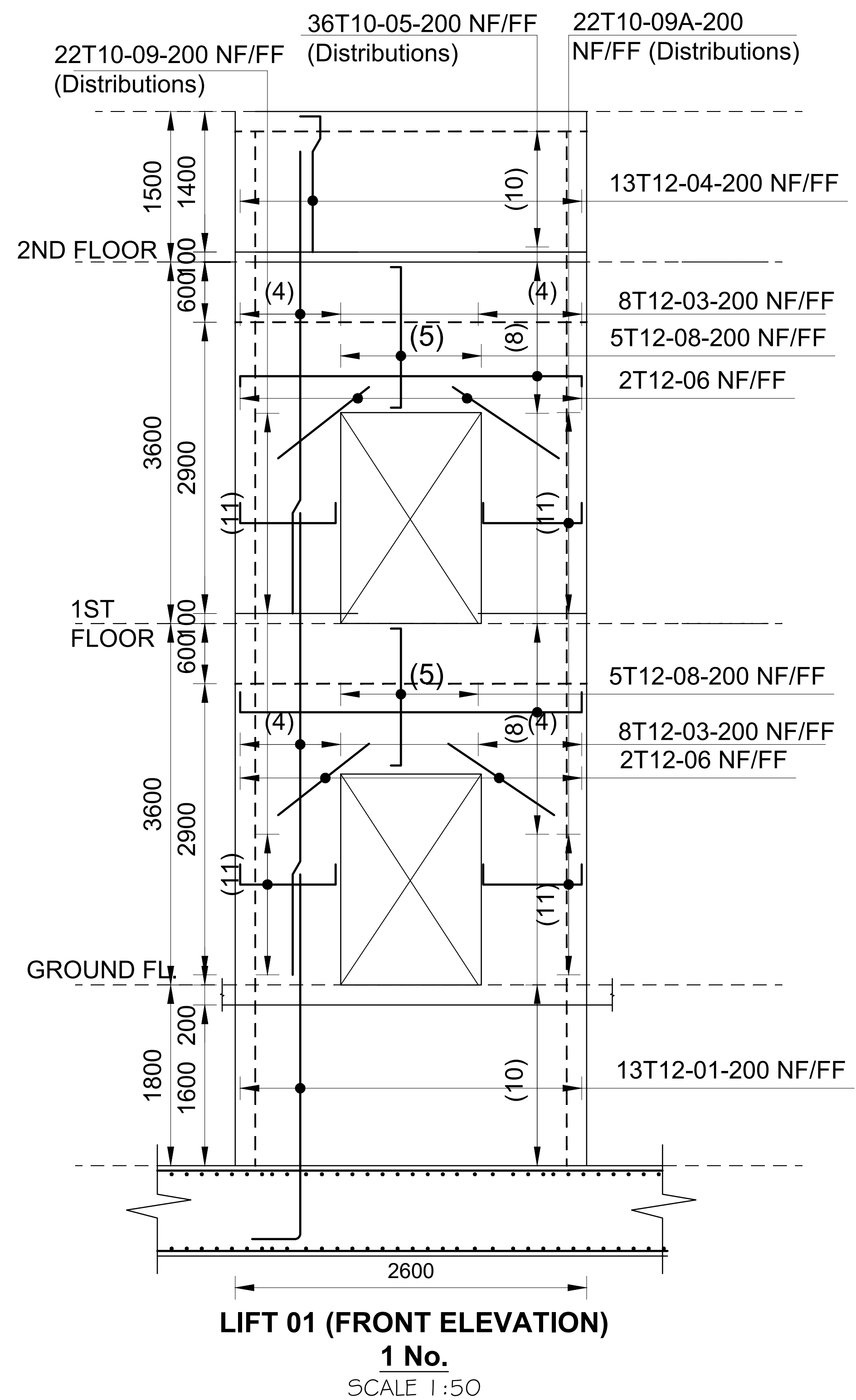
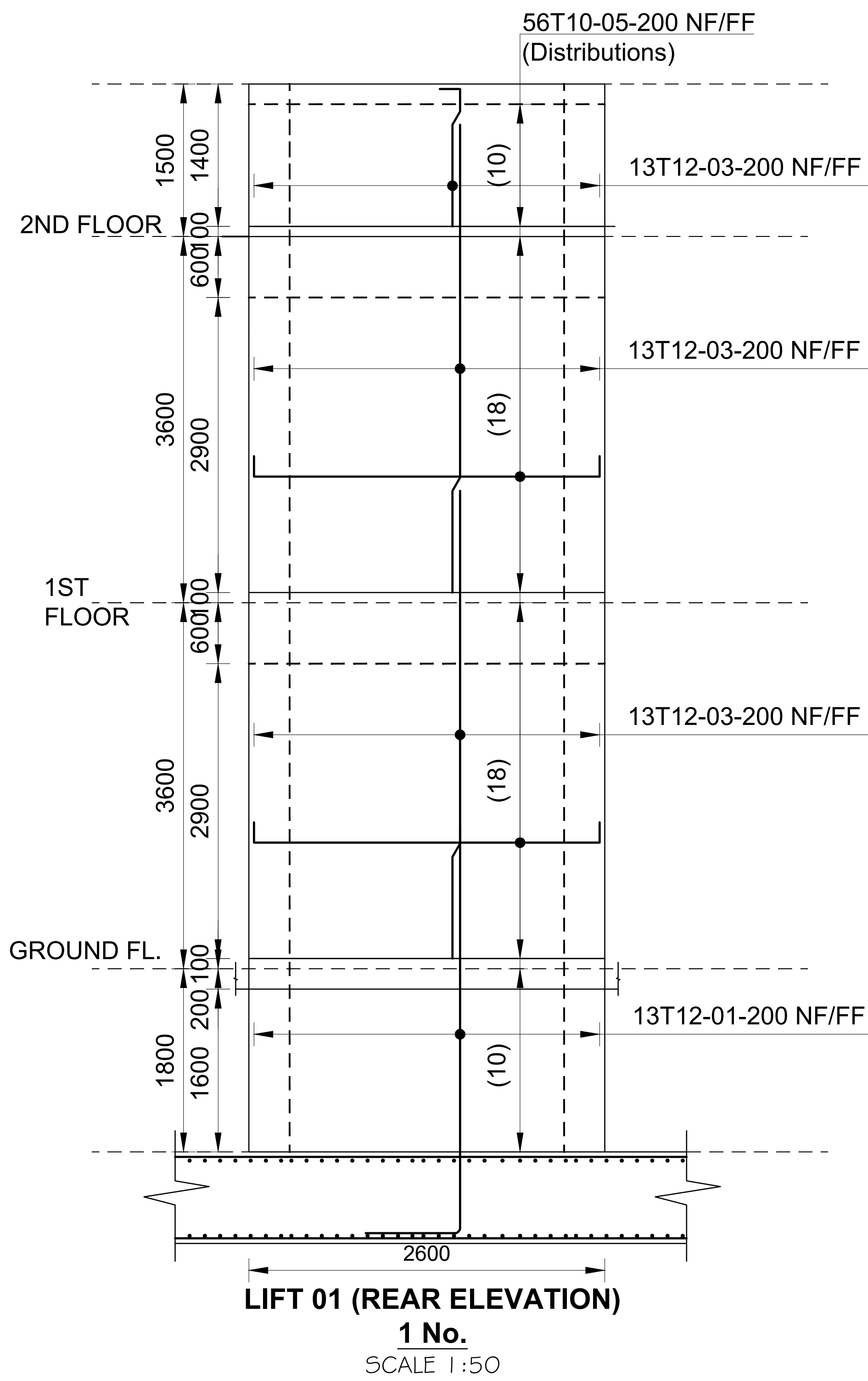
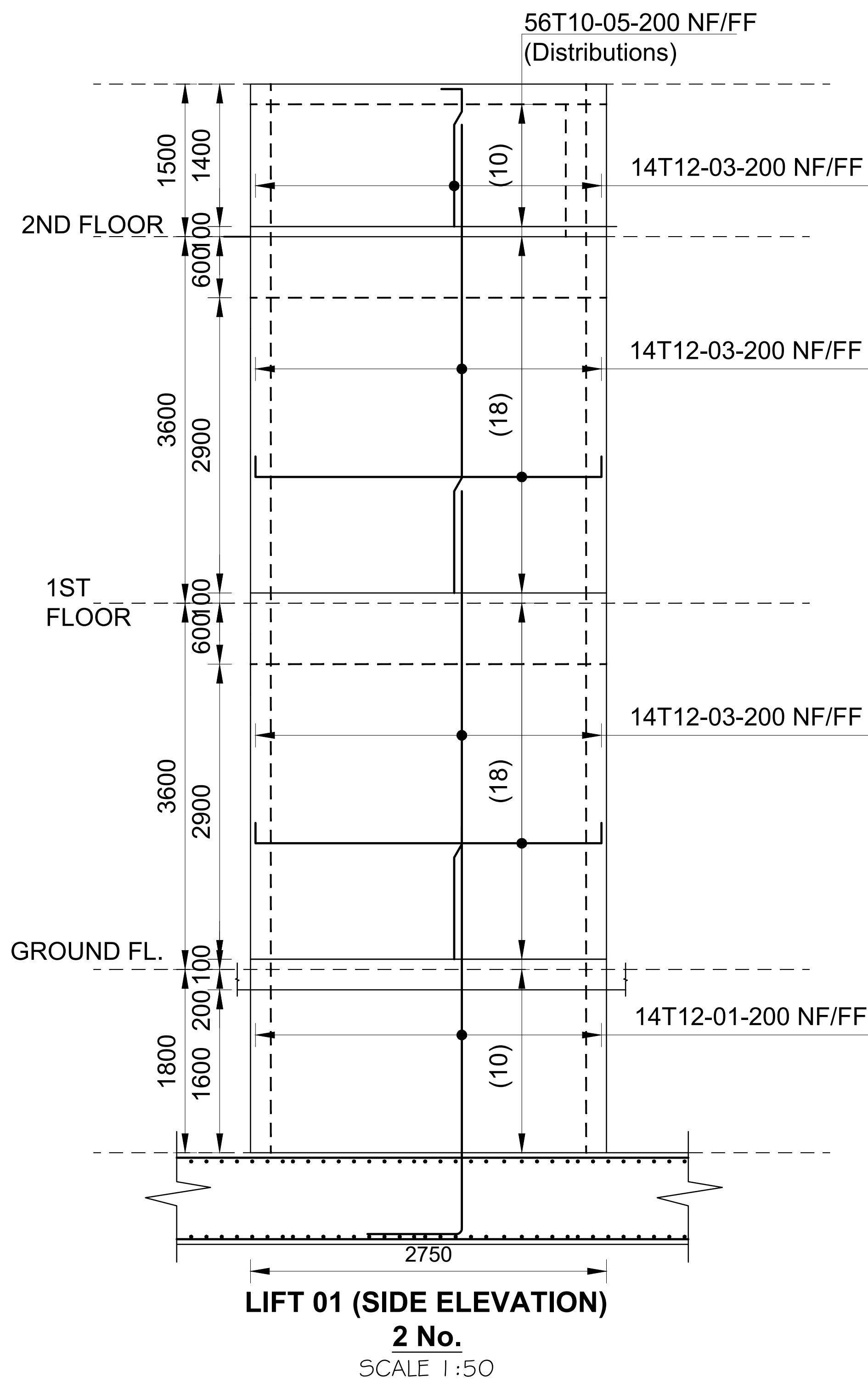
Date: NOV 2023	Job No. 2023/Nov/KIDONGO
Scale 1:100	

PROPOSED OFFICE CONSTRUCTION -MSAMBWENI STRUCTURAL DRAWINGS		
PAGE	DRAWING NUMBER	DRAWING TITLE
1	06-002S-001	DRAWING LIST
2	06-002S-002	FLOOR LAYOUTS
3	06-002S-003	LIFT DETAILS
4	06-002S-004	COLUMN, BEAM, STAIRCASE AND WATERPROOFING DETAIL
5	06-002S-005	FIRST FLOOR LAYOUT AND RC DETAILS
6	06-002S-006	SECOND FLOOR LAYOUT AND RC DETAILS
7	06-002S-007	ROOF FLOOR LAYOUT AND RC DETAILS
8	06-002S-008	CIVIL WORKS-SITE LAYOUT
9	06-002S-009	CIVIL WORKS DETAILS
10	06-002S-010	CIVIL WORKS DETAILS
11	06-002S-011	CIVIL WORKS DETAILS
12	06-002S-012	BIO-DIGESTER LAYOUT
13	06-002S-013	BIO-DIGESTER REINFORCEMENT DETAILS
14	06-002S-014	GATE HOUSE

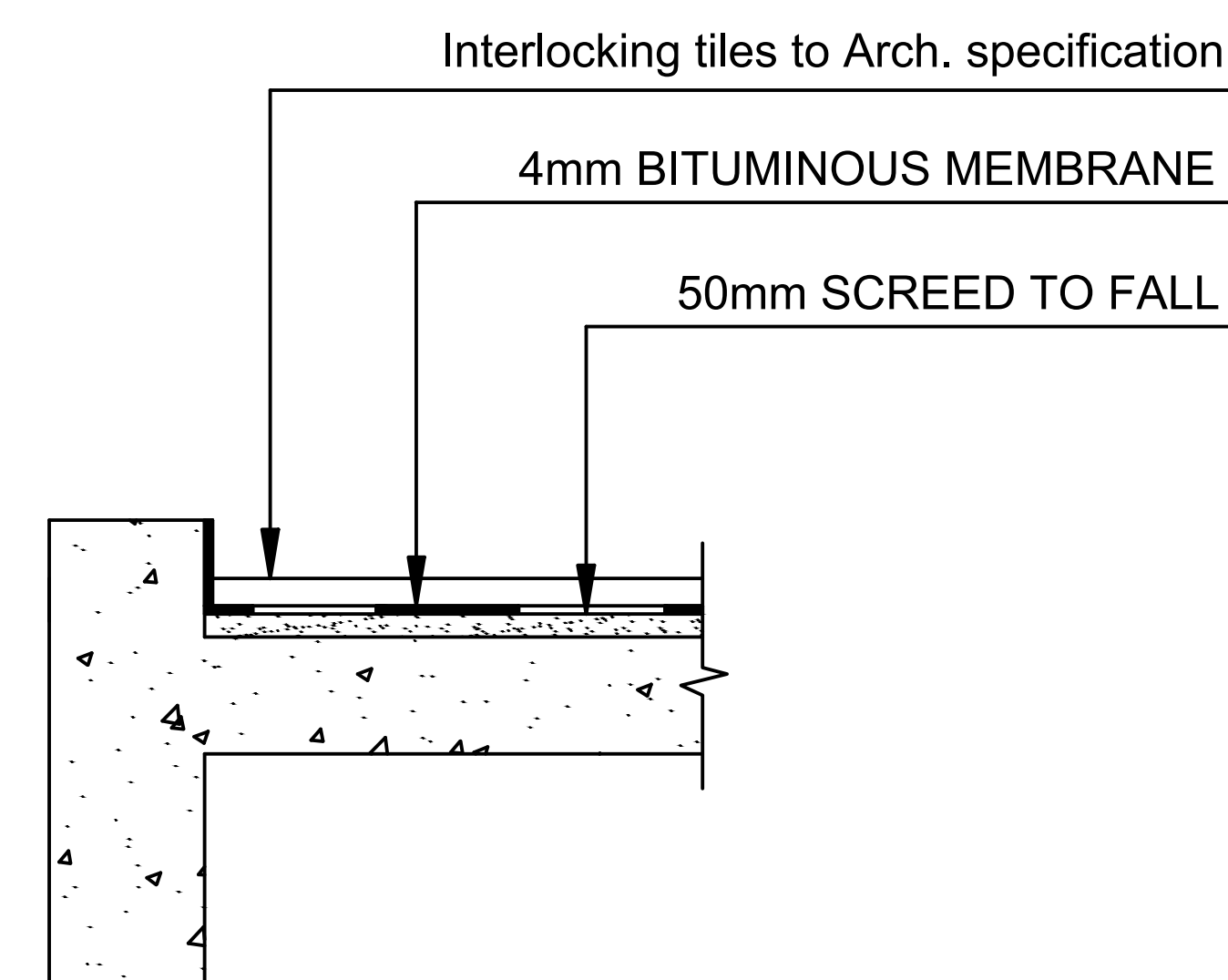
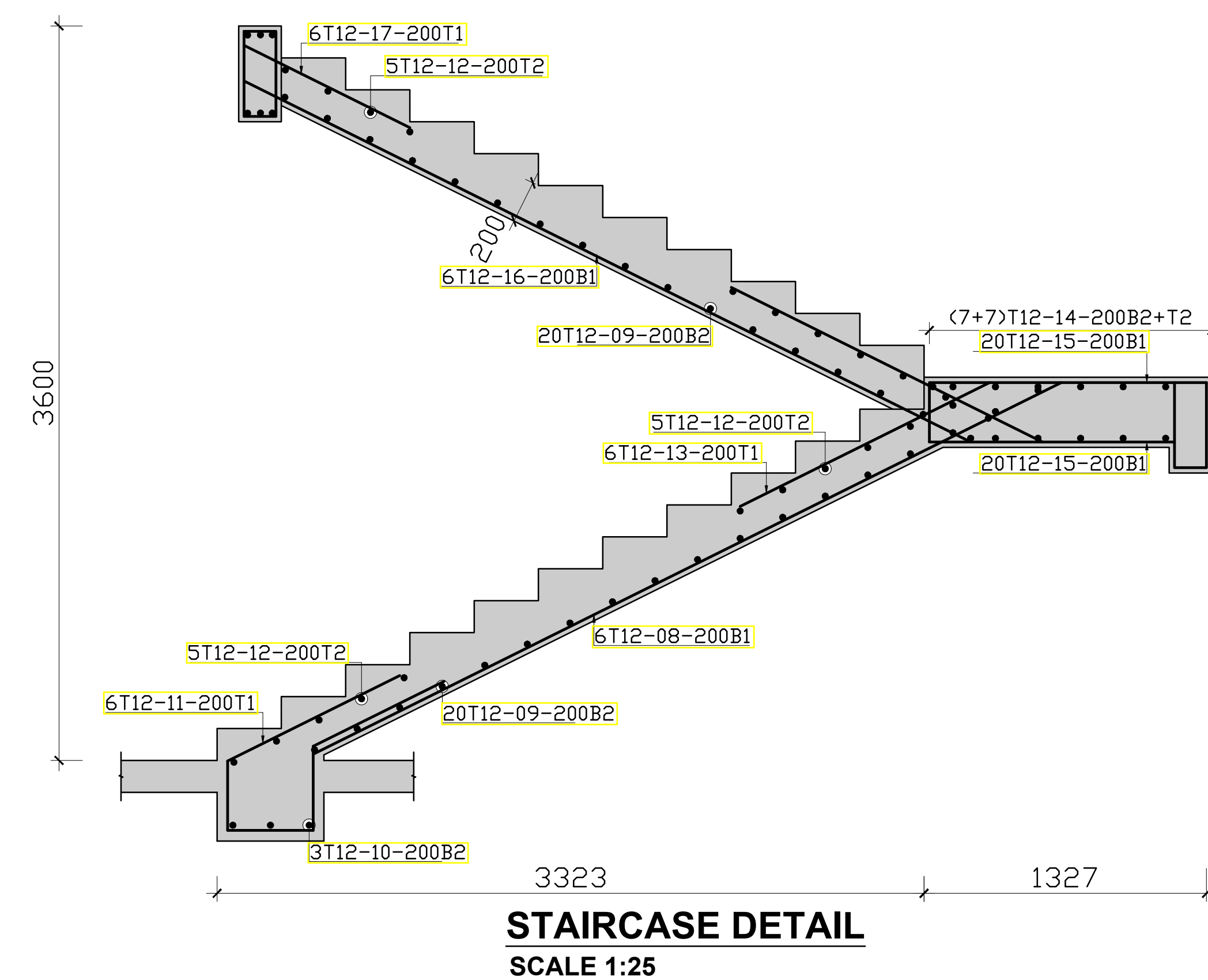
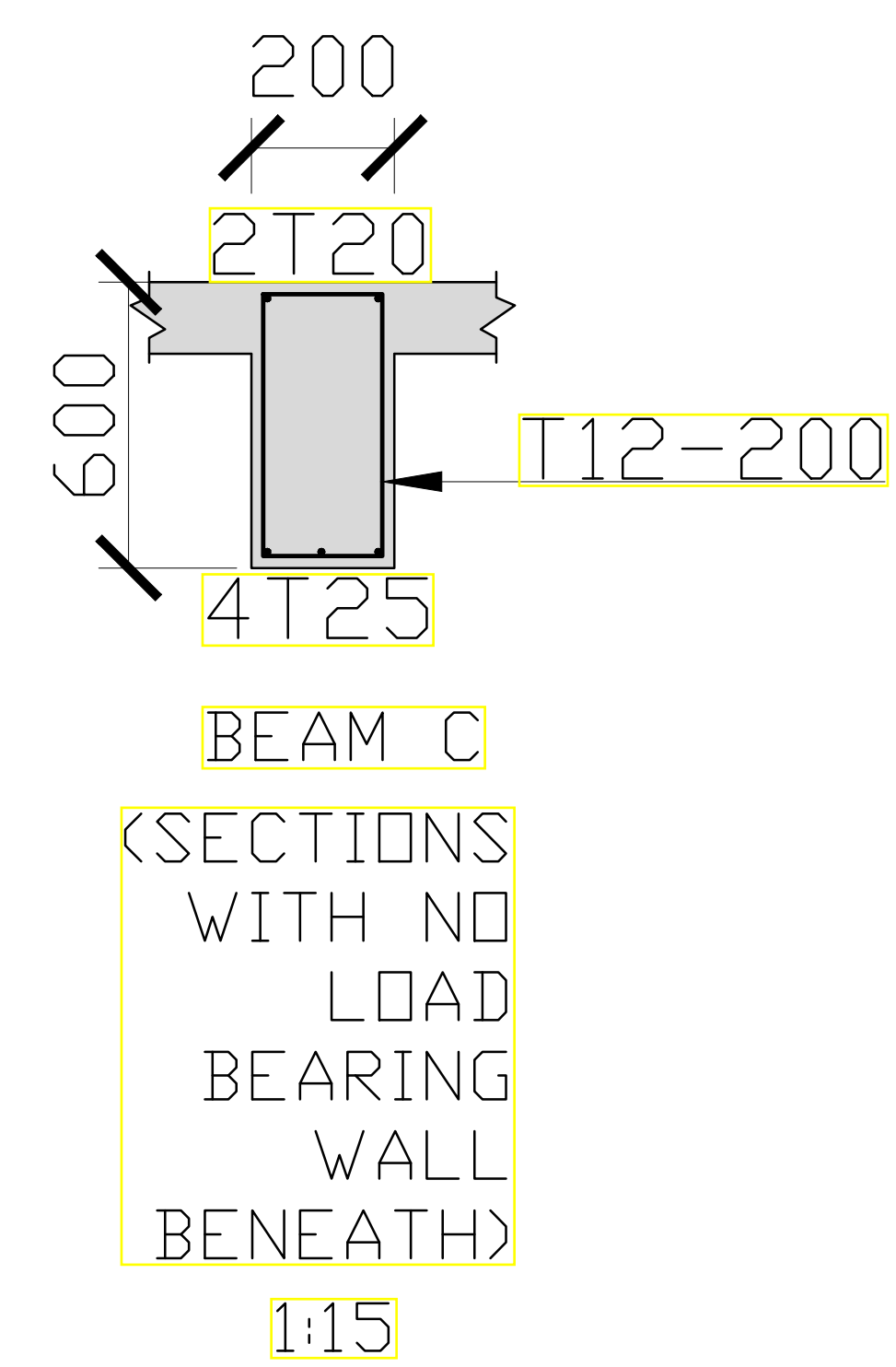
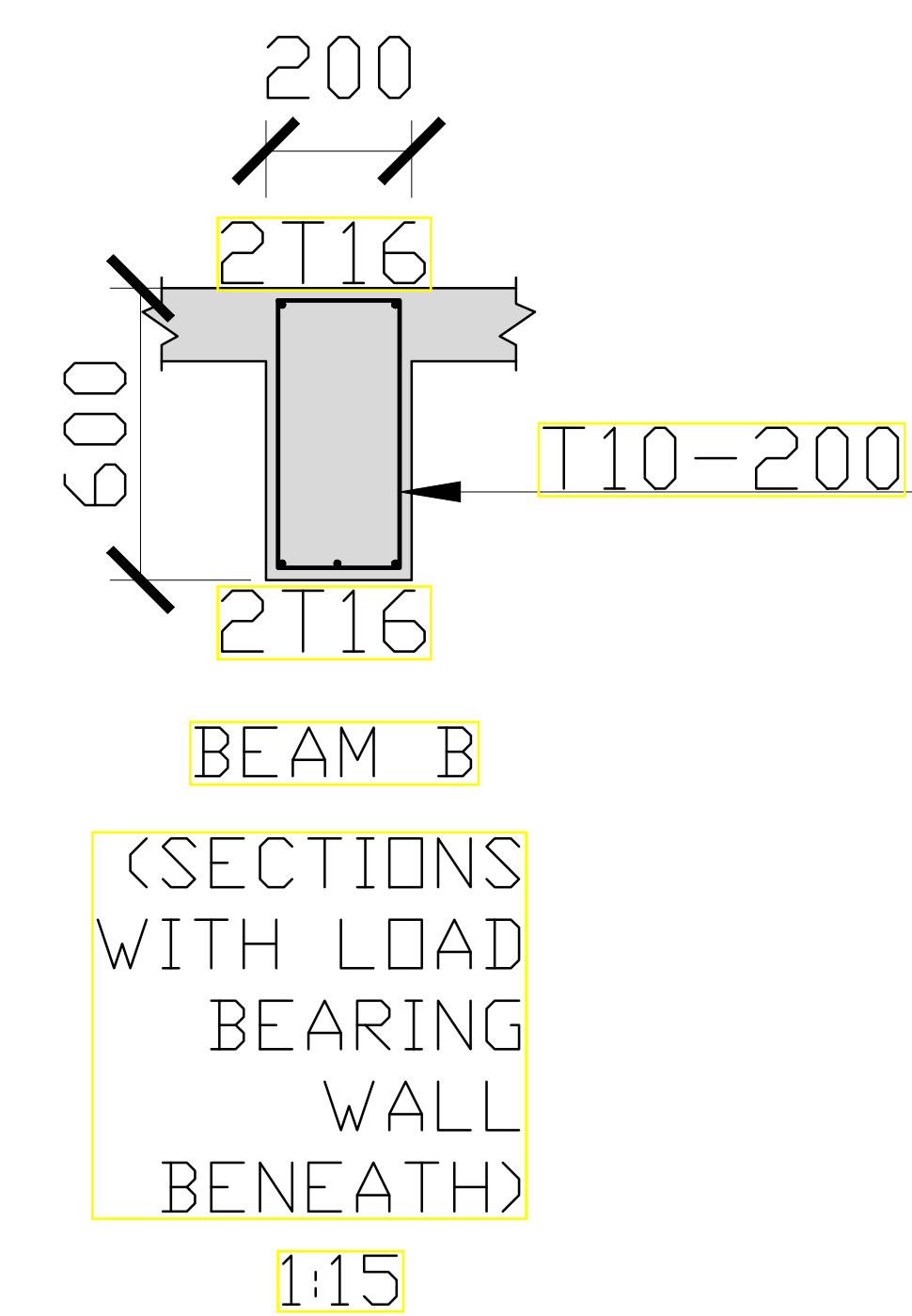
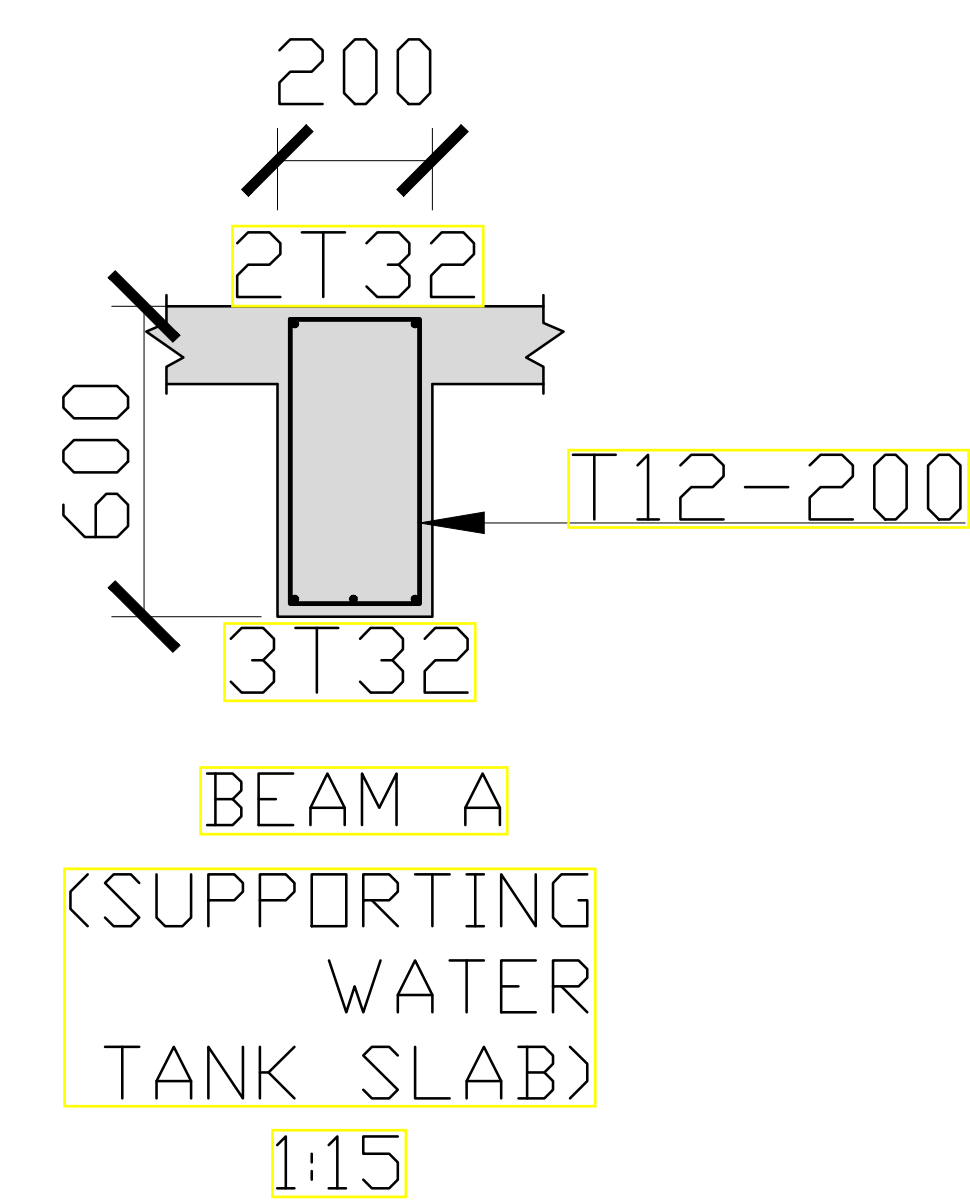
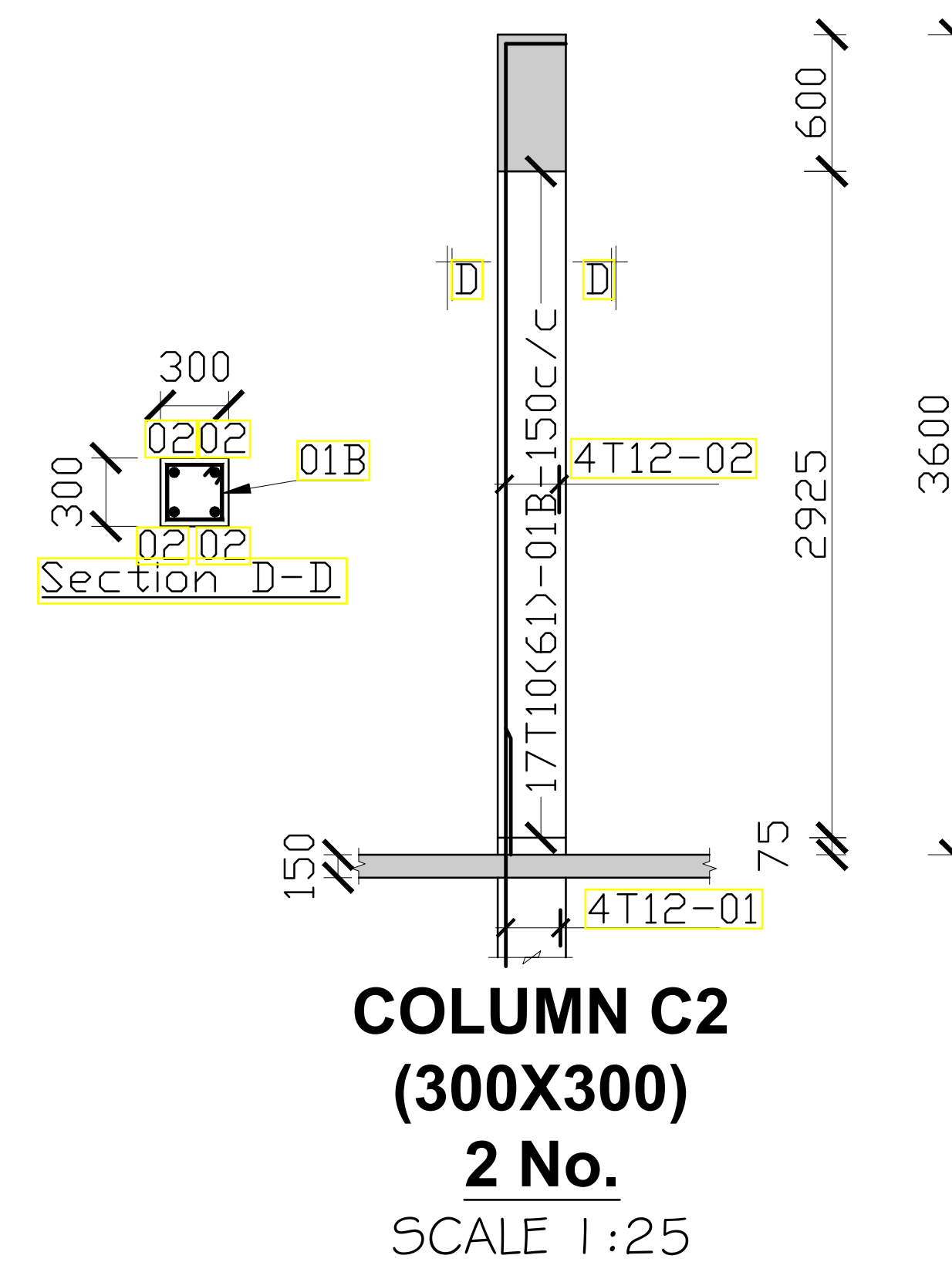
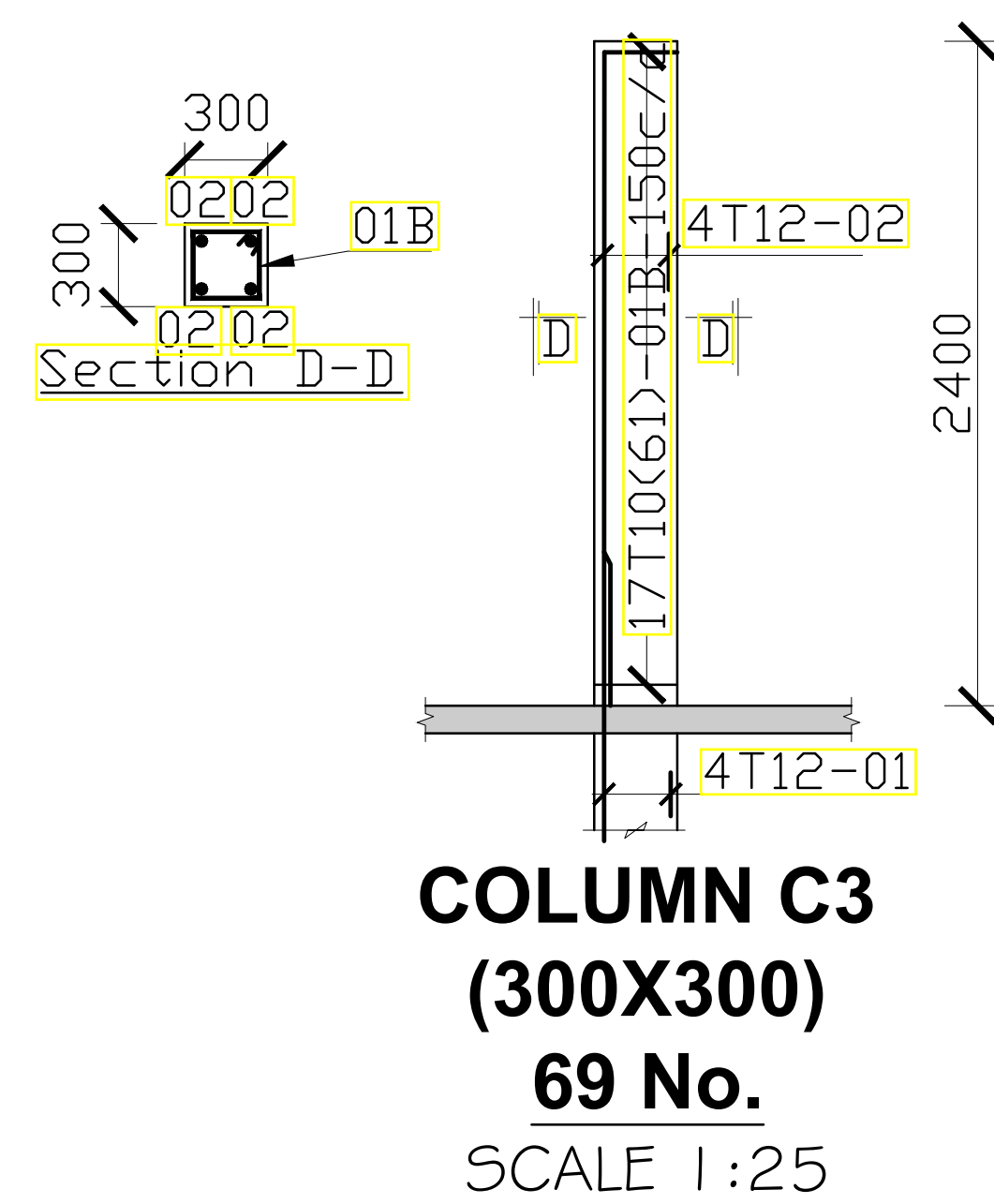
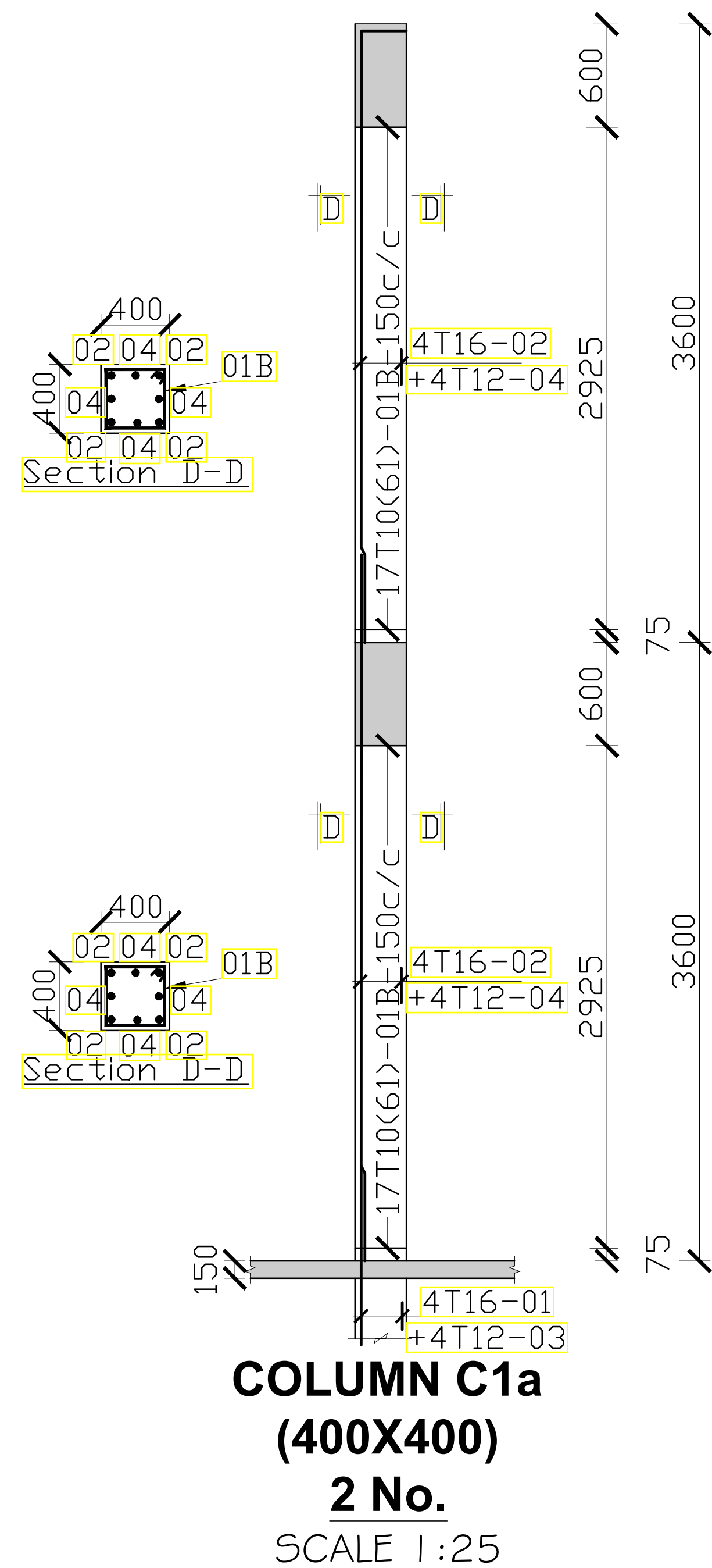


FOUNDATION AND GROUND FLOOR LAYOUT
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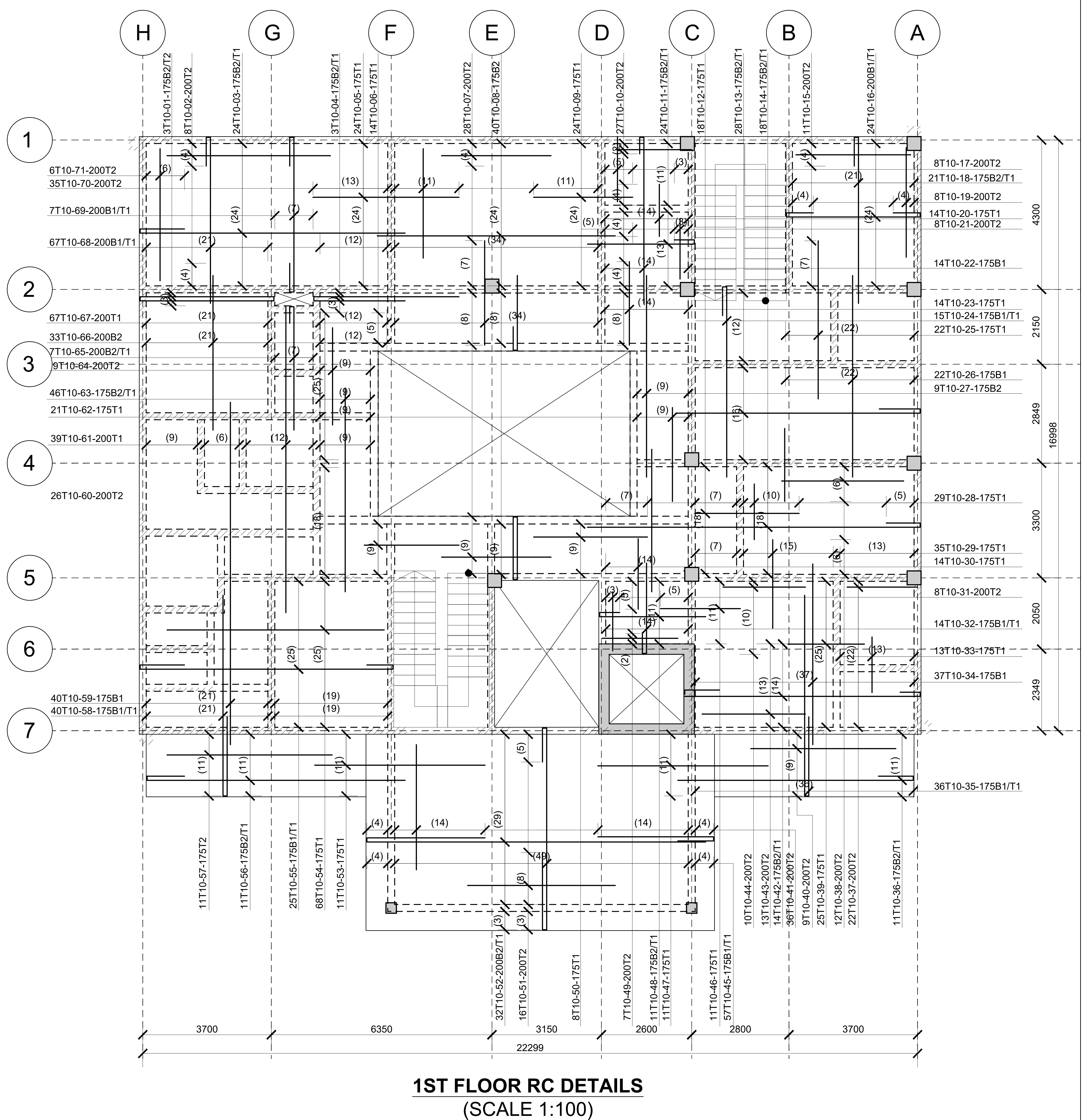
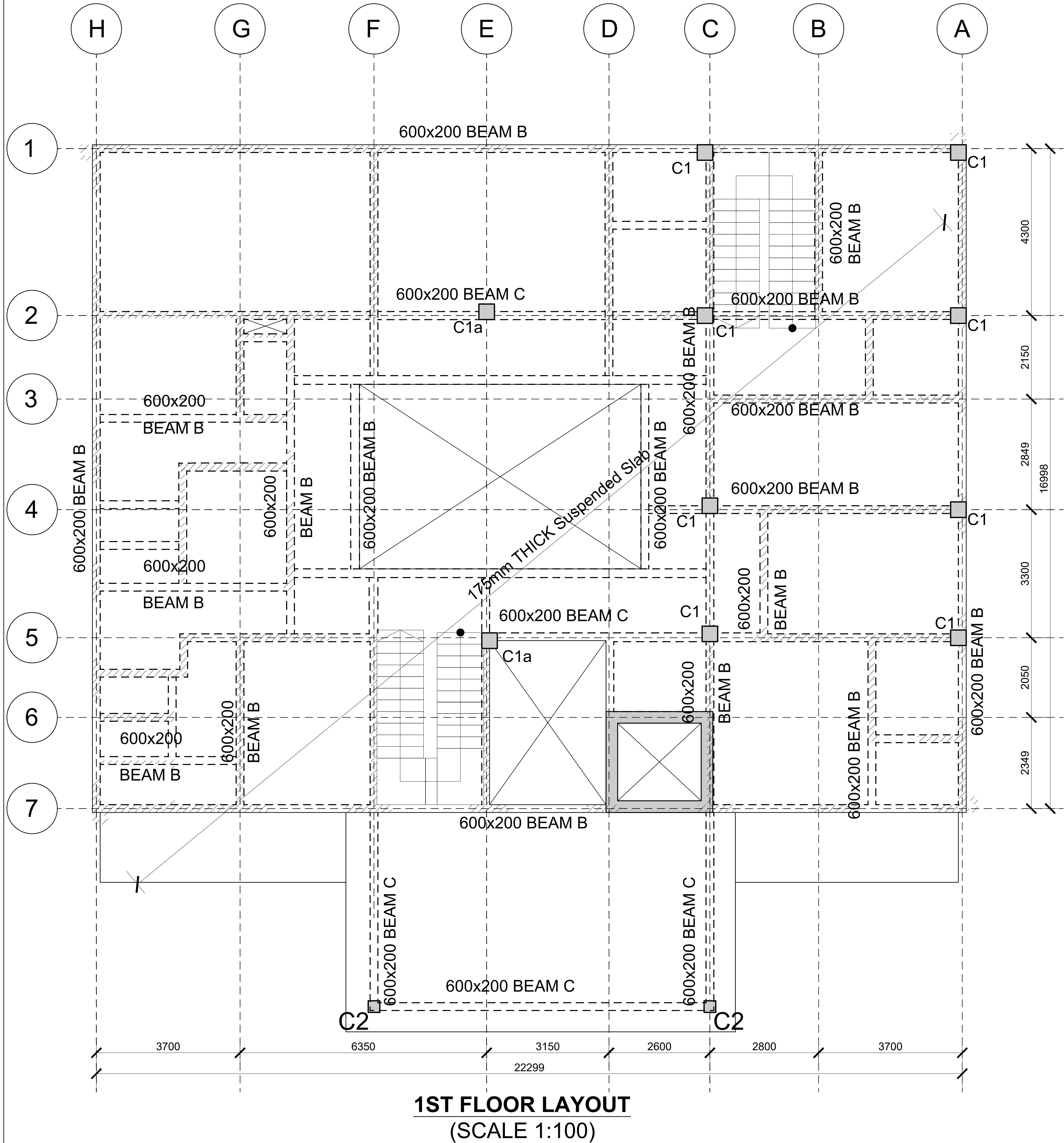


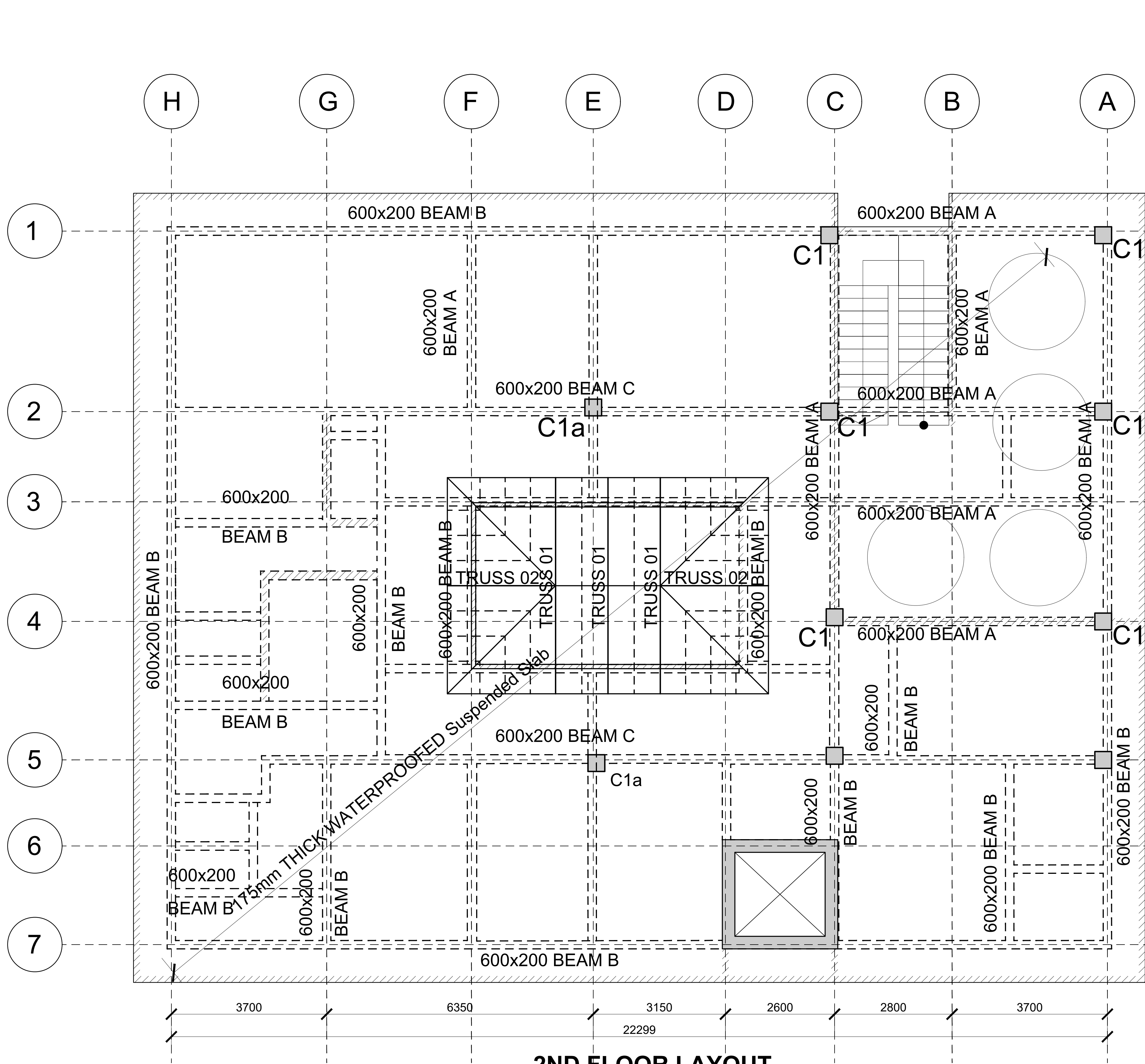
CONSULTANT:- ARPRIM CONSORTIUM P.O. Box 12969-00100, Nairobi, KENYA. Tel: 02 608 906 Fax: 02 608 907 E-mail: info@arprimconsultants.com	CLIENT:- STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.	PROJECT:- PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.	PROJECT TITLE:- PROPOSED CONSTRUCTION OF MSAMBWENI FISHERIES OFFICE BLOCK. DRAWING TITLE:- LIFT DETAILS	NOTES 1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer. 2. All dimensions are in millimetres unless specified otherwise. 3. All levels are indicated in mm unless specified otherwise. 4. Minimum cover to all reinforcement to be: Stairs, Slabs & Walls Beams (main bars) = 35mm Columns (main bars) = 40mm Foundations = 75mm 5. Maximum tolerance on concrete cover is +/- 5mm. 6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4443. 7. Minimum laps to all bars to be 500 unless stated otherwise. 8. Safe Bearing Pressure taken to be 200 KN/m². 9. Nominal aggregate size to be 20mm. 10. Structural concrete to be Class 25 unless stated otherwise. 11. Masonry Strength to be 7.0 N/mm².	<table><tr><td>Designed by</td><td>BMN</td><td>Rev</td><td>Description</td><td>By</td><td>Date</td></tr><tr><td>Drawn by</td><td>BMN</td><td>D</td><td></td><td></td><td></td></tr><tr><td>Checked by</td><td>H.O.H.</td><td>C</td><td></td><td></td><td></td></tr><tr><td>Scale</td><td>AS SHOWN</td><td>B</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>A</td><td></td><td></td><td></td></tr></table>	Designed by	BMN	Rev	Description	By	Date	Drawn by	BMN	D				Checked by	H.O.H.	C				Scale	AS SHOWN	B						A			
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		A																																	
DRAWING NO: 06-002S-003																																			



TYPICAL ROOF SLAB
W/POOFING DETAIL
SCALE 1:10

<div>CONSULTANT:-</div> <div>ARPRIM CONSORTIUM</div> <div>P.O. Box 12969-00100,</div> <div>Nairobi, KENYA,</div> <div>Tel: 02 608 906</div> <div>Fax: 02 608 907</div> <div>E-mail: info@arprimconsultants.com</div>	<div>CLIENT:-</div> <div>STATE DEPARTMENT FOR FISHERIES,</div> <div>AQUACULTURE AND THE BLUE ECONOMY.</div>	<div>PROJECT:-</div> <div>PROPOSED KENYA MARINE FISHERIES AND</div> <div>SOCIO-ECONOMIC DEVELOPMENT (KEMFSD)</div> <div>NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.</div>	<div>PROJECT TITLE:-</div> <div>PROPOSED CONSTRUCTION OF MSAMBWENI FISHERIES OFFICE BLOCK.</div>	<div>NOTES</div> <div>1. Read this drawing in conjunction with relevant G.A.,</div> <div>Services and Architectural drawings. Any discrepancy</div> <div>to be reported to the Engineer.</div> <div>2.All dimensions are in millimetres unless specified</div> <div>otherwise.</div> <div>3. All levels are indicated in mm unless specified otherwise.</div> <div>4. Minimum cover to all reinforcement to be:</div> <div>Stairs, Slabs & Walls = 35mm</div> <div>Beams (main bars) = 35mm</div> <div>Columns (main bars) = 40mm</div> <div>Foundations = 75mm</div> <div>5. Maximum tolerance on concrete cover is +/- 5mm.</div> <div>6. All high tensile (T) and mild steel (R) bars to be in</div> <div>accordance with BS 4449 and fabric mesh to be</div> <div>made from cold worked steel bars in accordance</div> <div>with BS 4483.</div> <div>7. Minimum laps to all bars to be 500 unless stated otherwise.</div> <div>8. Safe Bearing Pressure taken to be 200 KN/m².</div> <div>9. Nominal aggregate size to be 20mm.</div> <div>10. Structural concrete to be Class 25 unless stated otherwise.</div> <div>11. Masonry Strength to be 7.0 N/mm².</div>	<div>Designed by</div> <div>BMN</div>	Rev	Description	By	Date
					<div>Drawn by</div> <div>BMN</div>	D			
					<div>Checked by</div> <div>H.O.H.</div>	C			
					<div>Scale</div> <div>AS SHOWN</div>	B			
						A			
<div>DRAWING NO: 06-002S-004</div>									

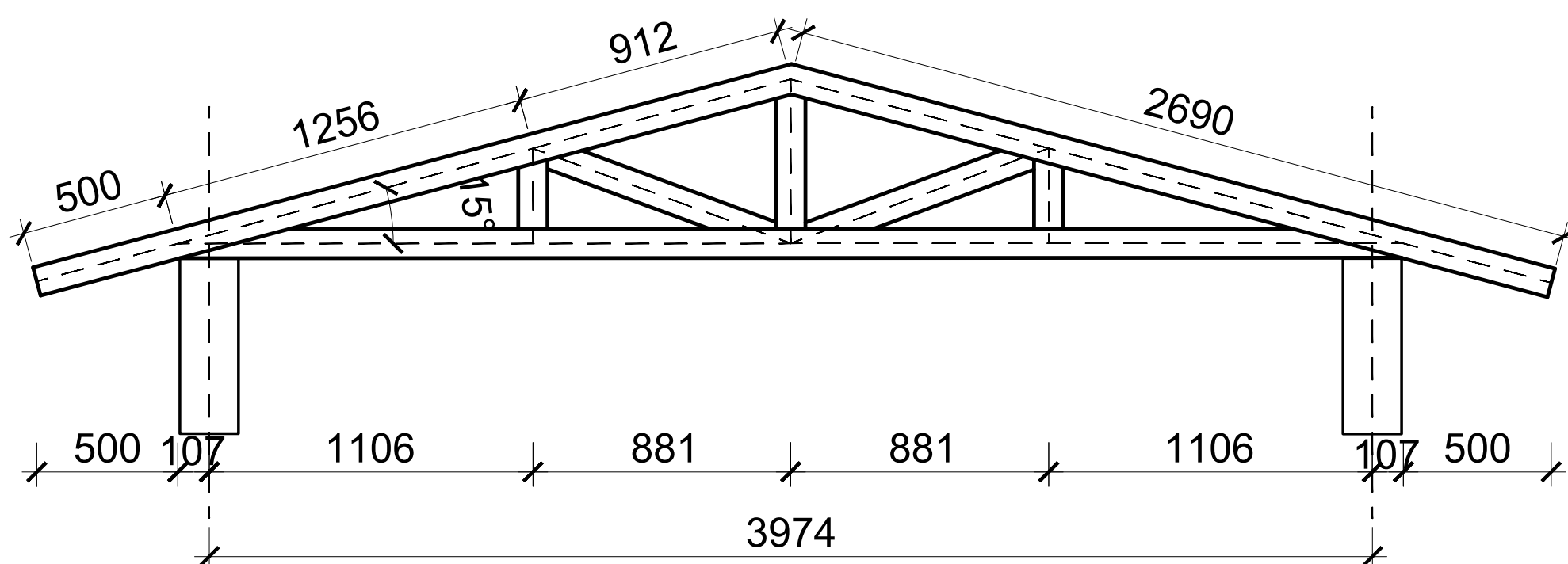




2ND FLOOR LAYOUT
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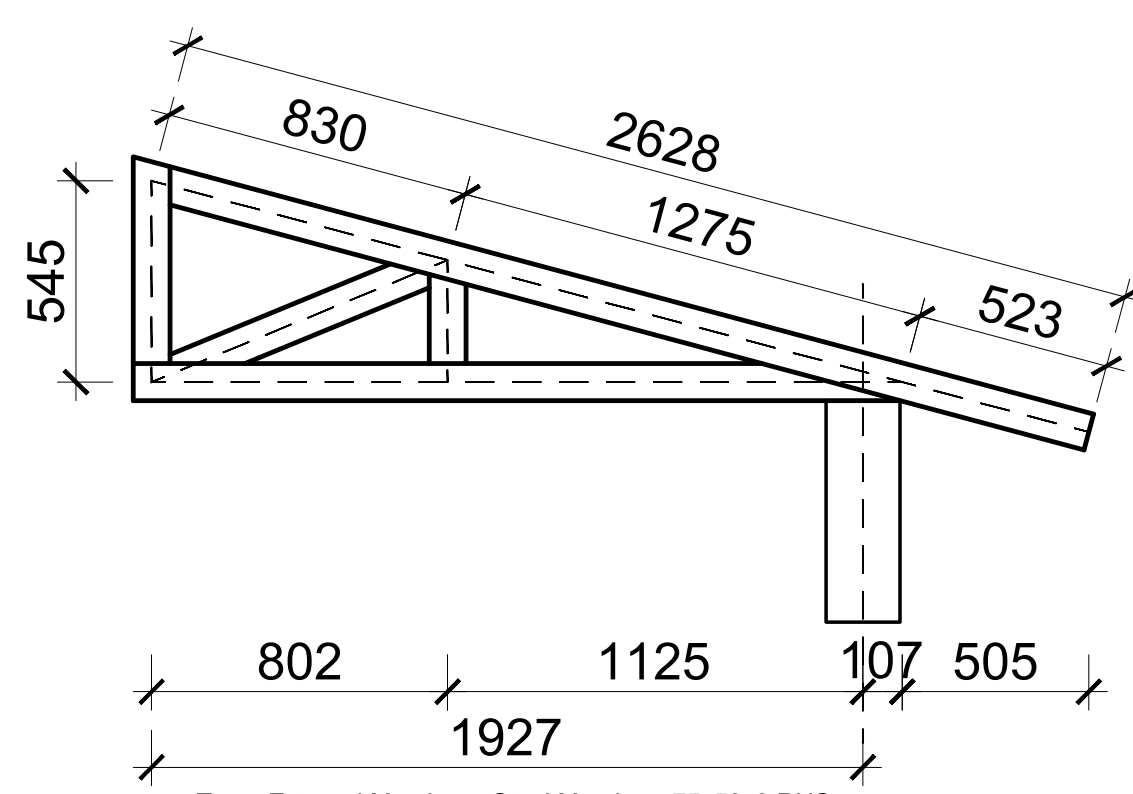
KEY:

- TRUSS
----- 75X50X3 RHS
STEEL RAFTER



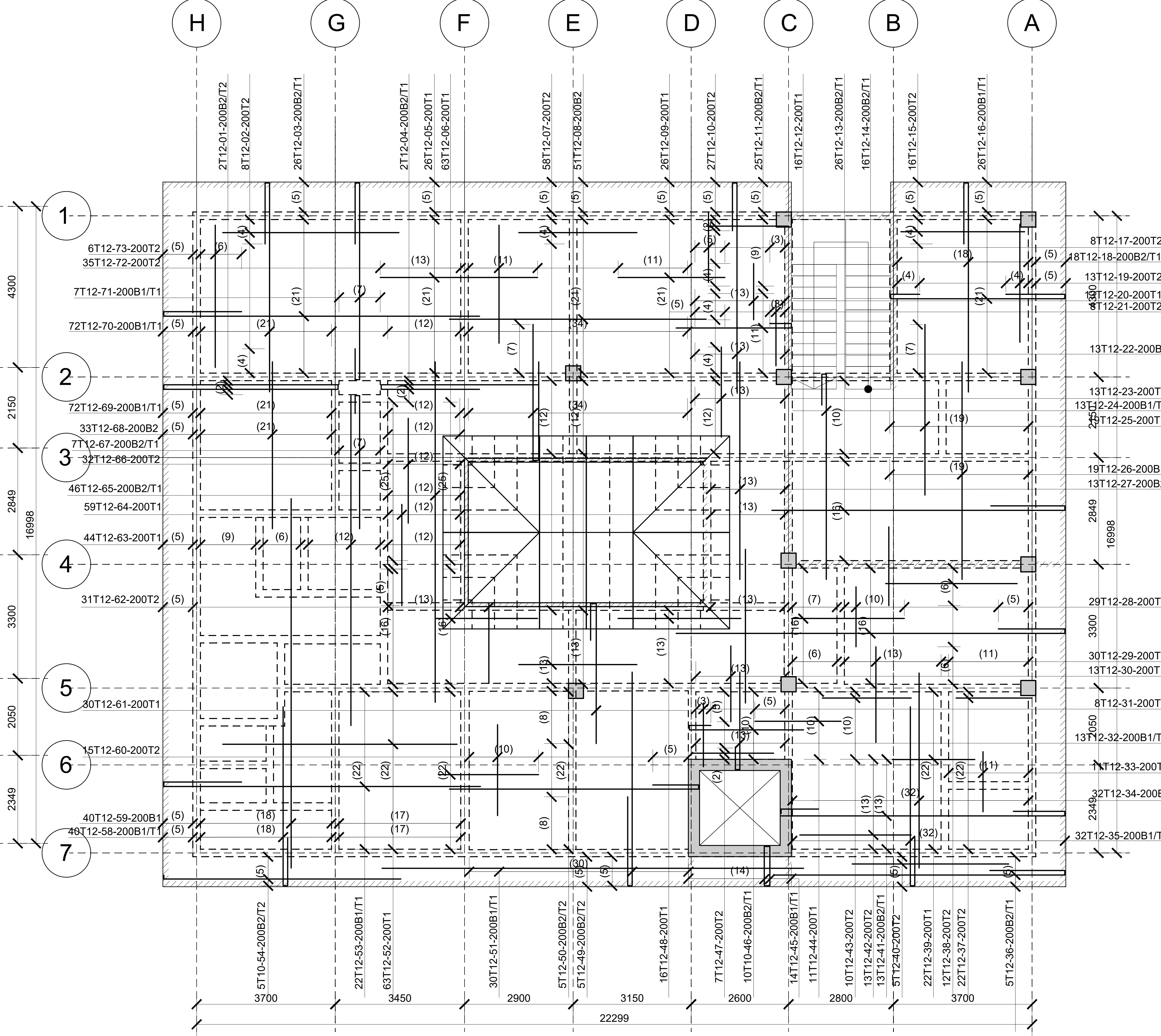
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Truss Internal Members: Steel Members 50x50x3 SHS

TRUSS 01
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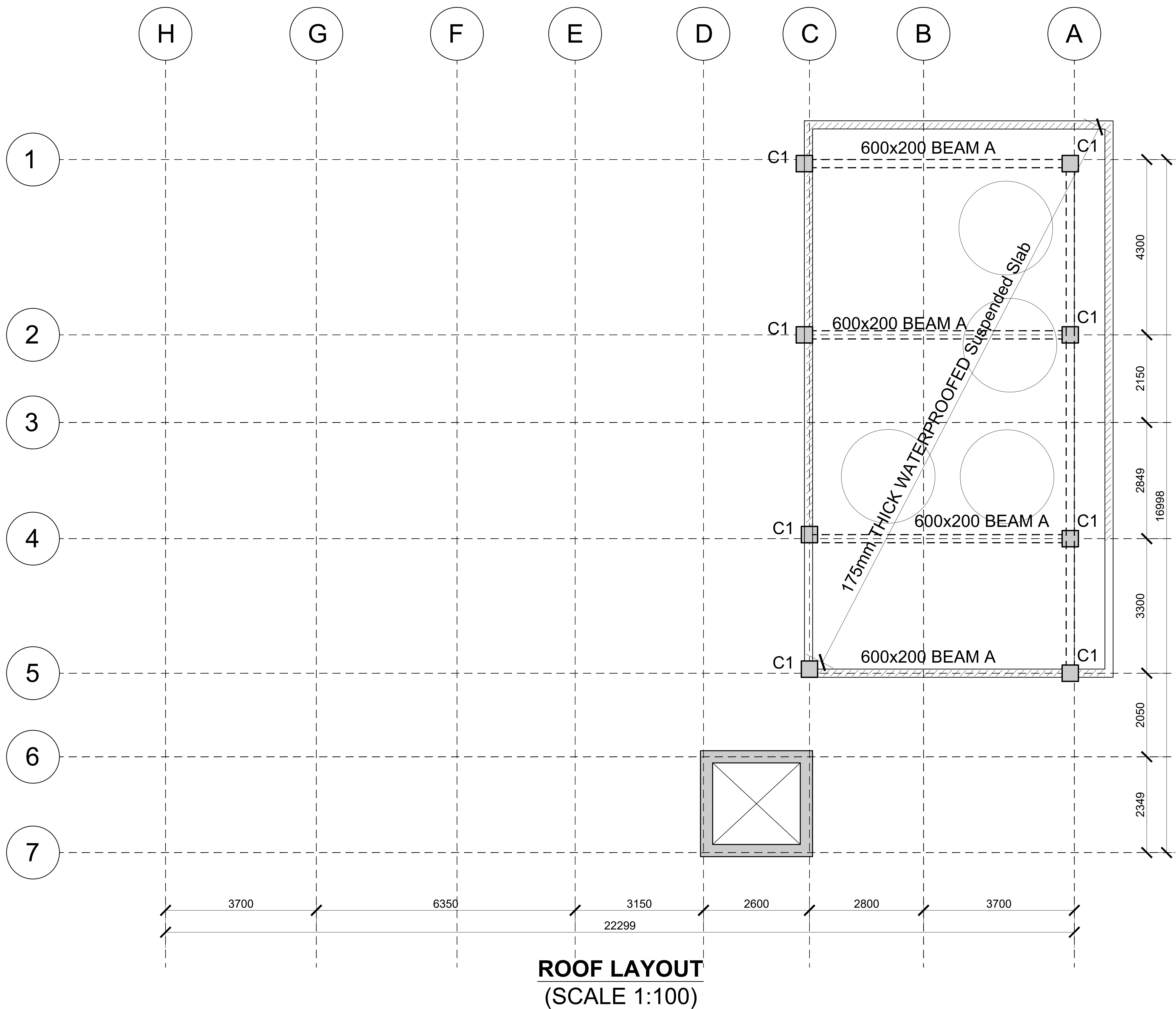


Truss External Members: Steel Members 75x50x3 RHS
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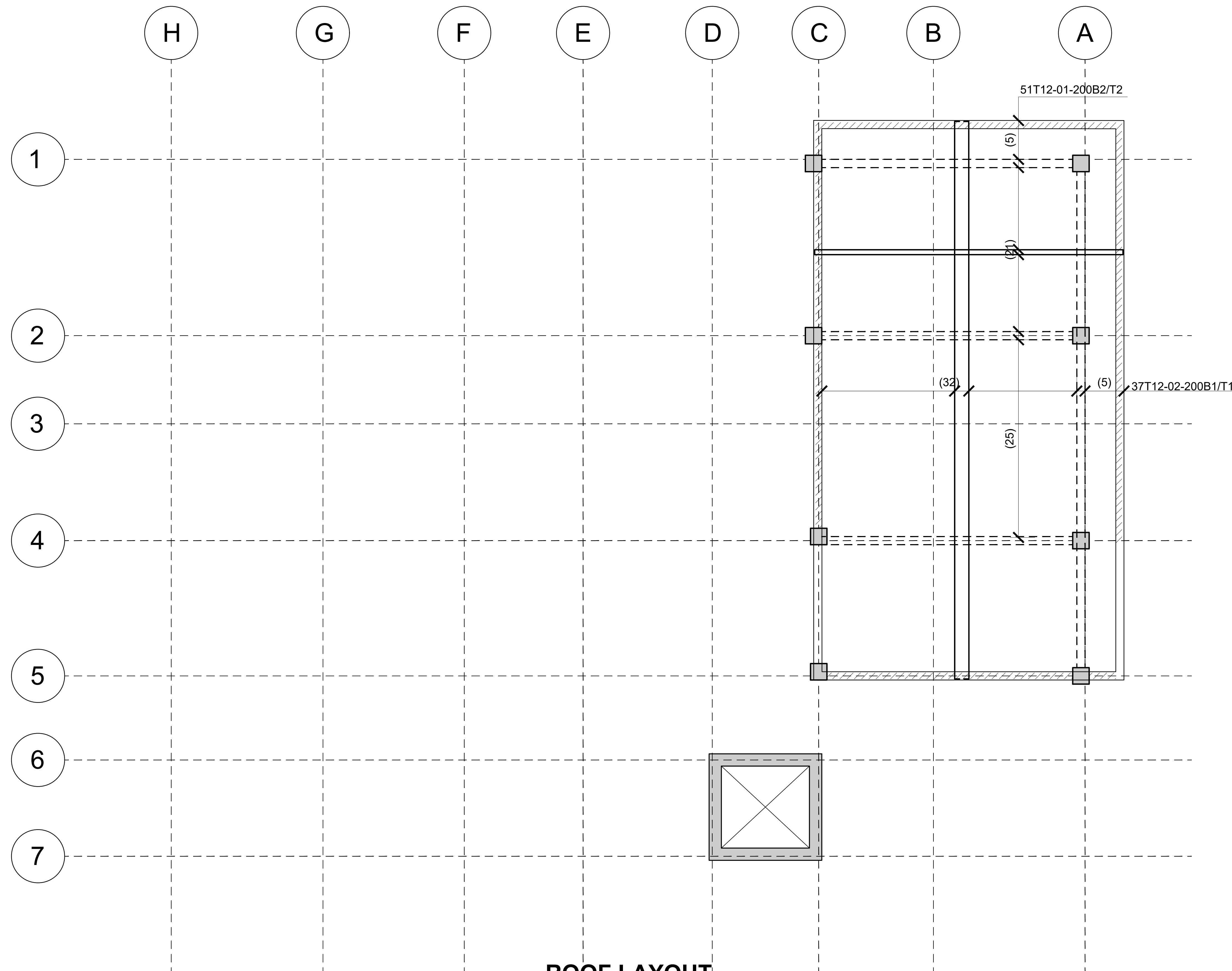
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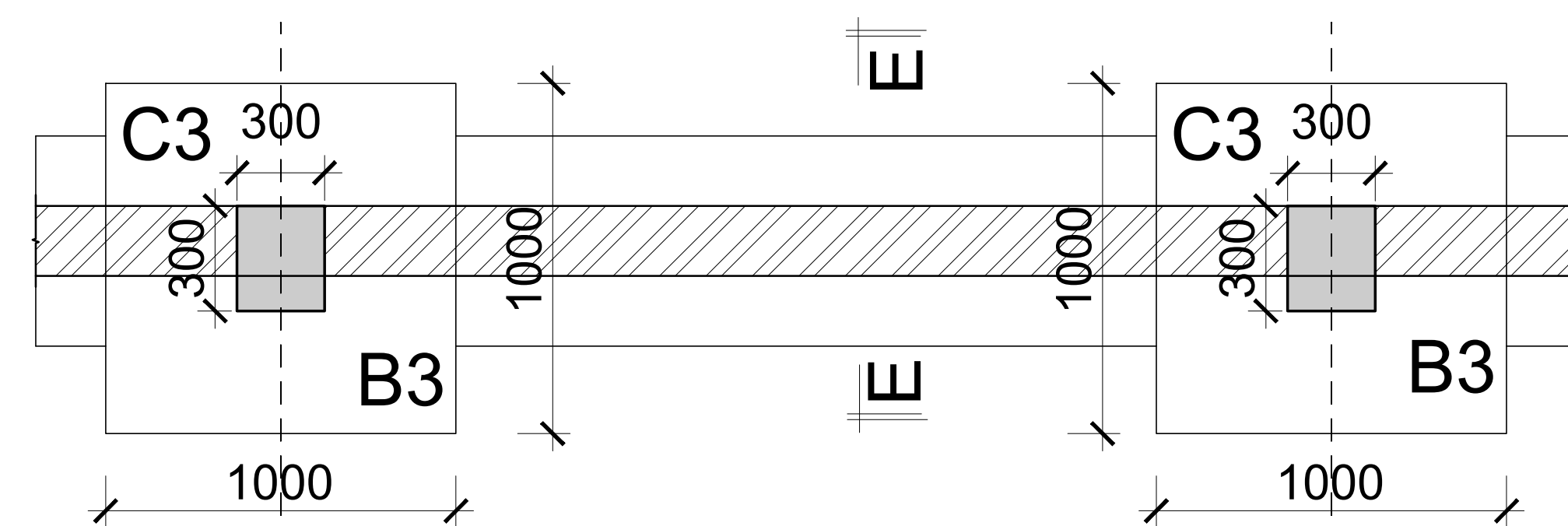
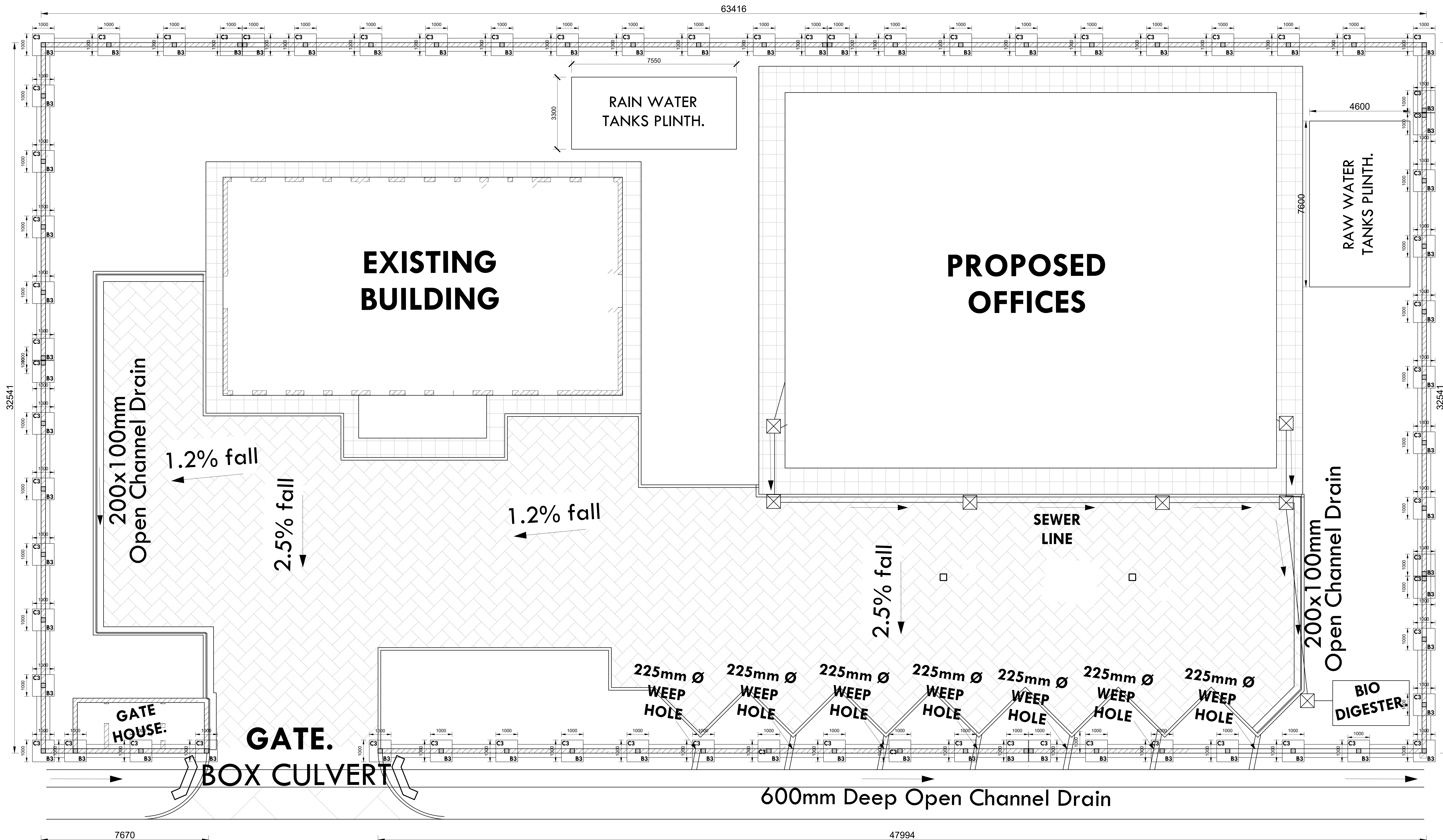
2ND FLOOR RC DETAILS
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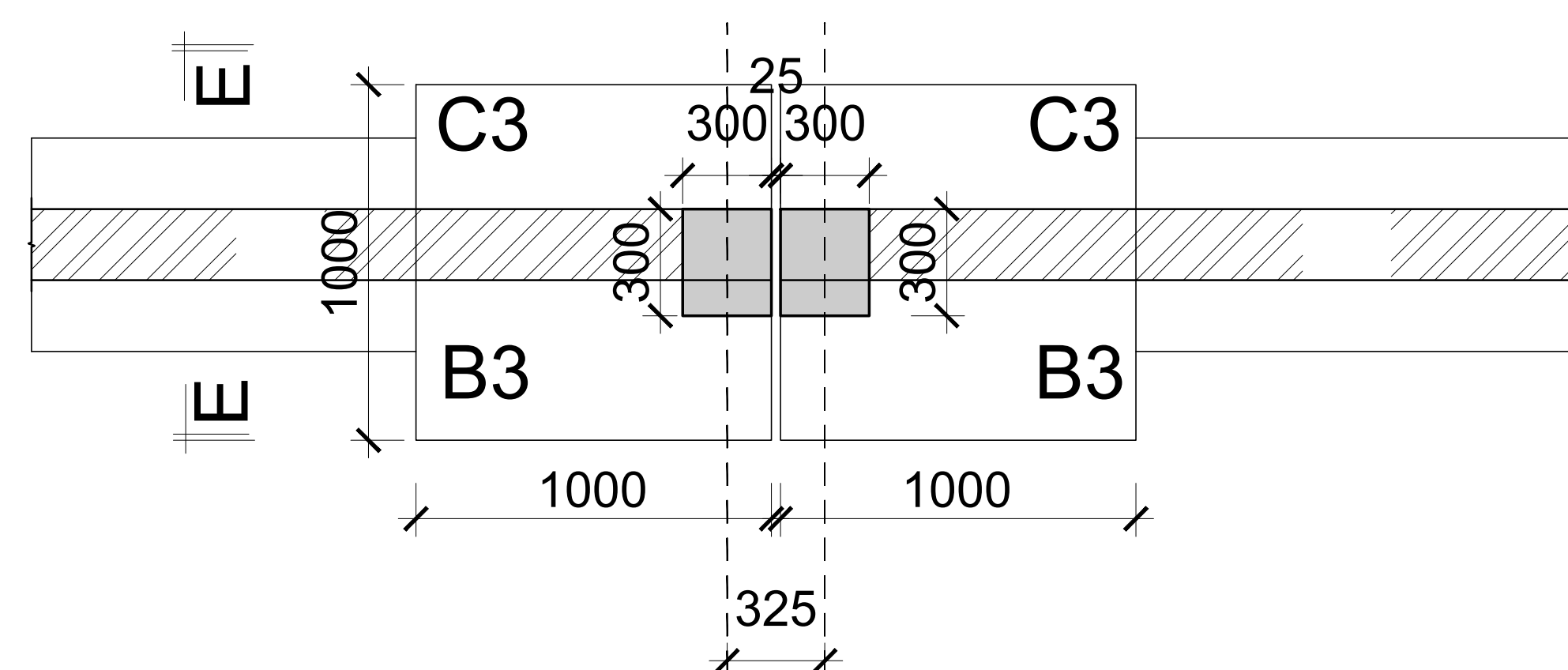
ROOF LAYOUT
(SCALE 1:100)



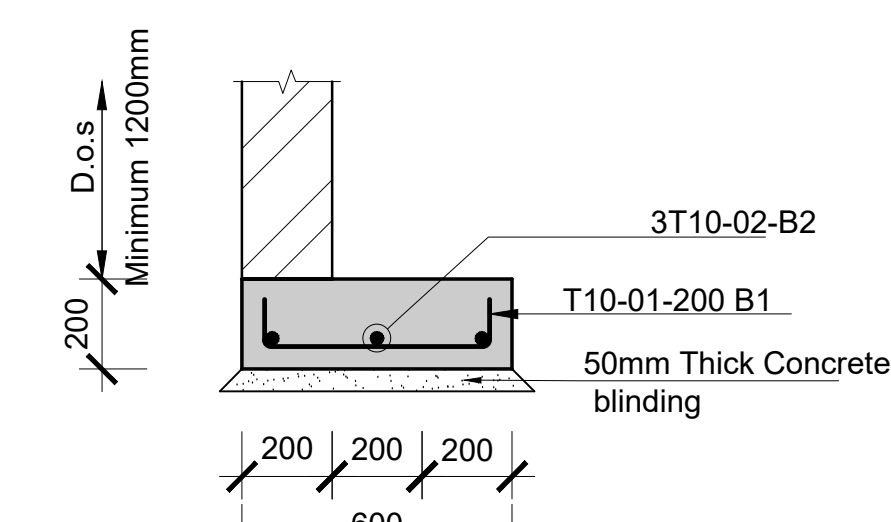
ROOF LAYOUT
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**TYPICAL BOUNDARY WALL SECTION
(PLAN VIEW)**
Scale 1:25

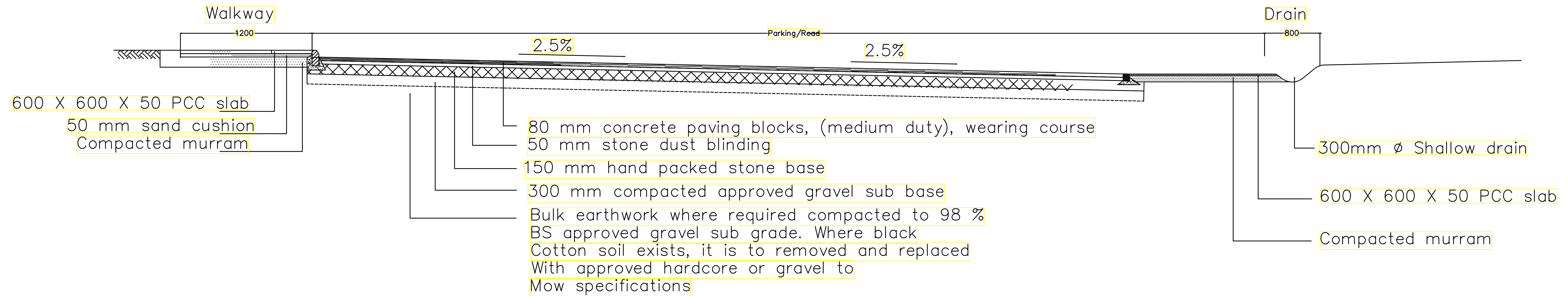


**BOUNDARY WALL SECTION AT
EXPANSION JOINT (EVERY 25M)
(PLAN VIEW)**
Scale 1:25

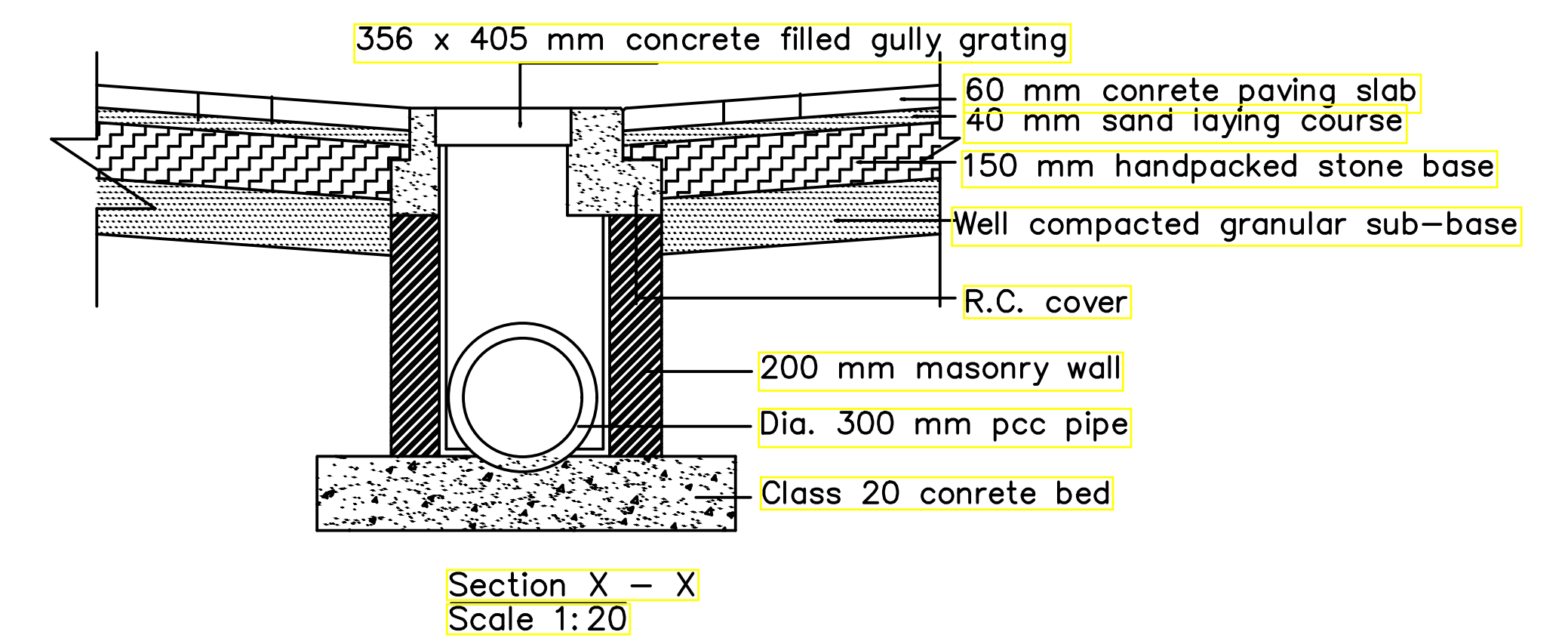
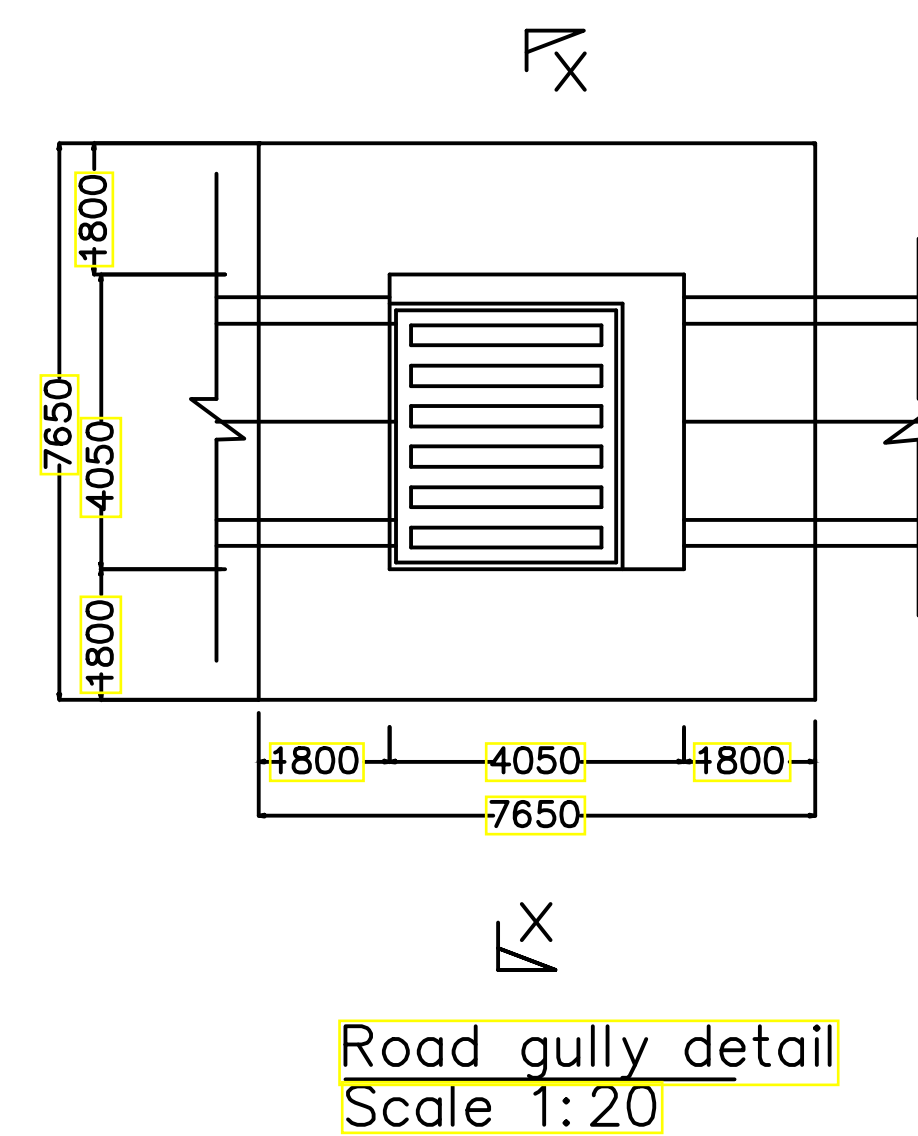
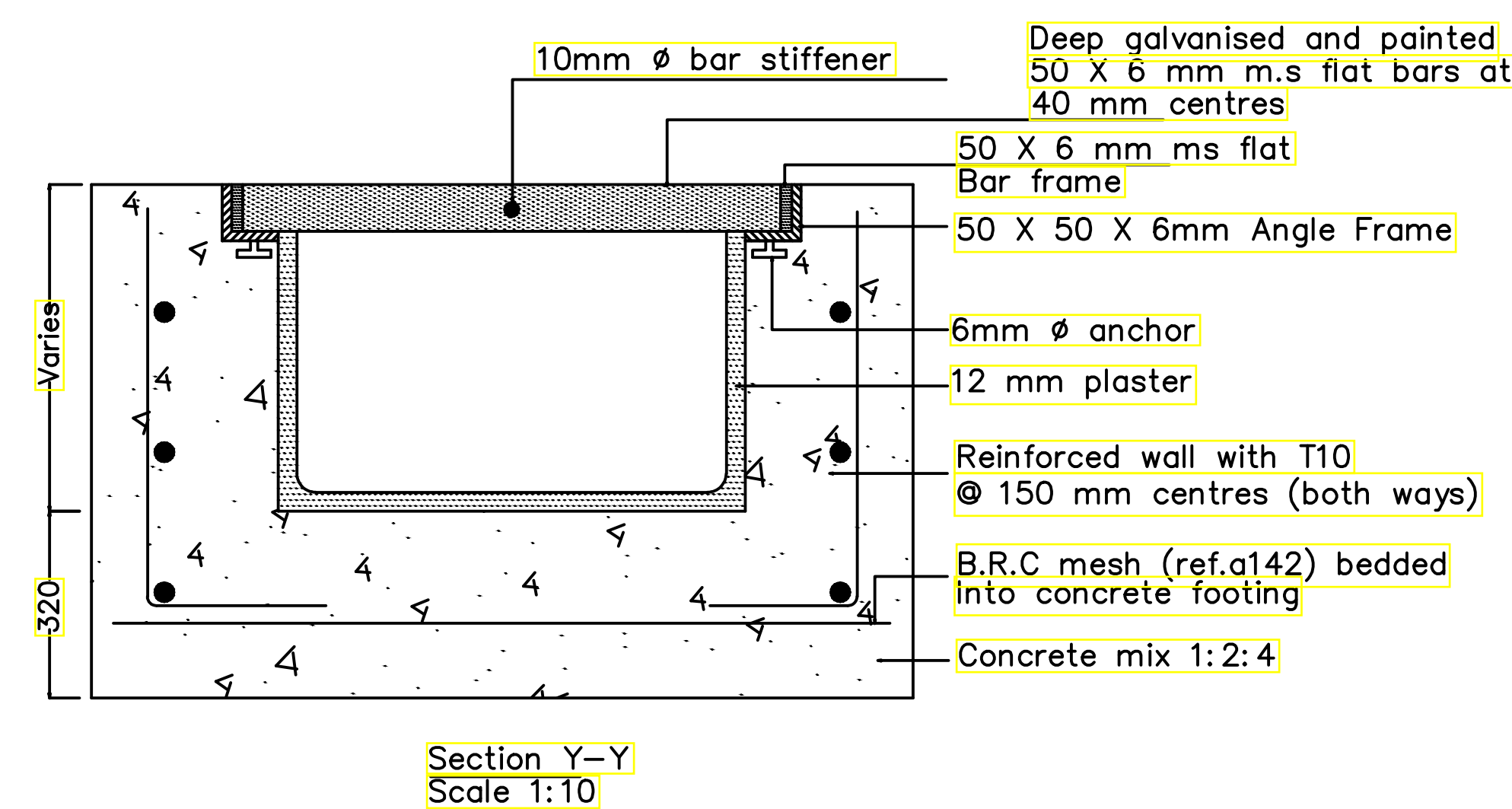
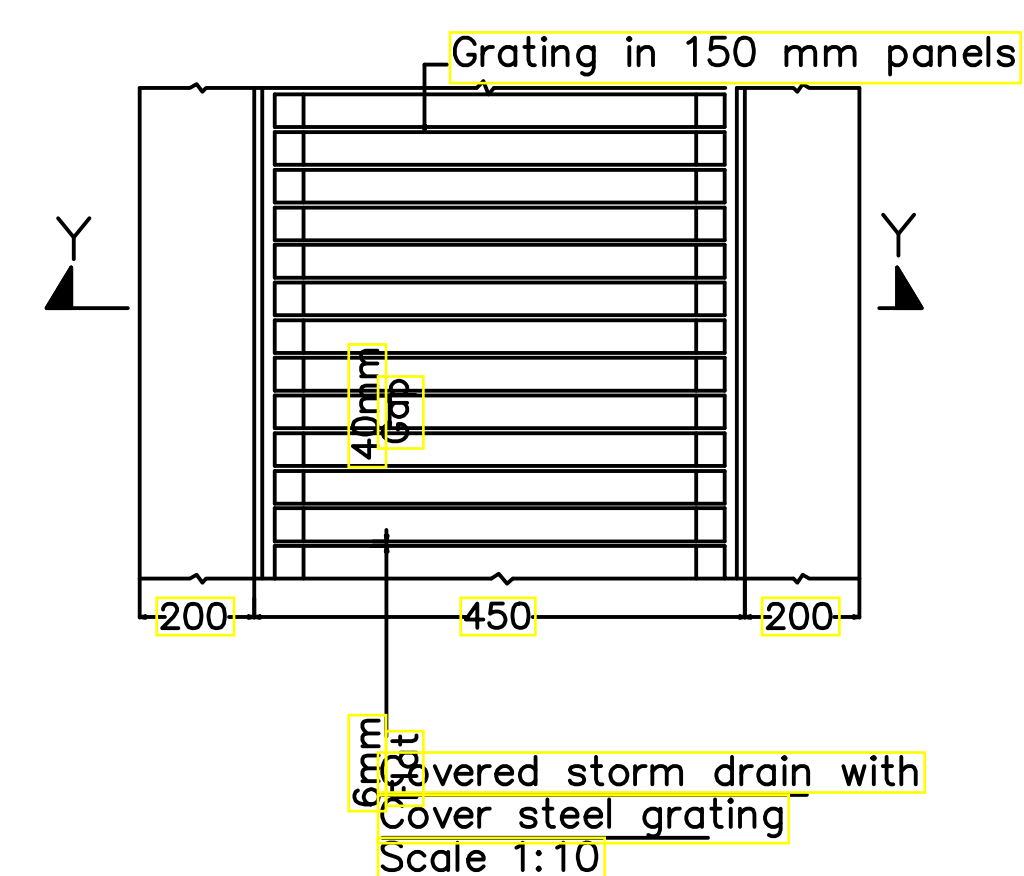
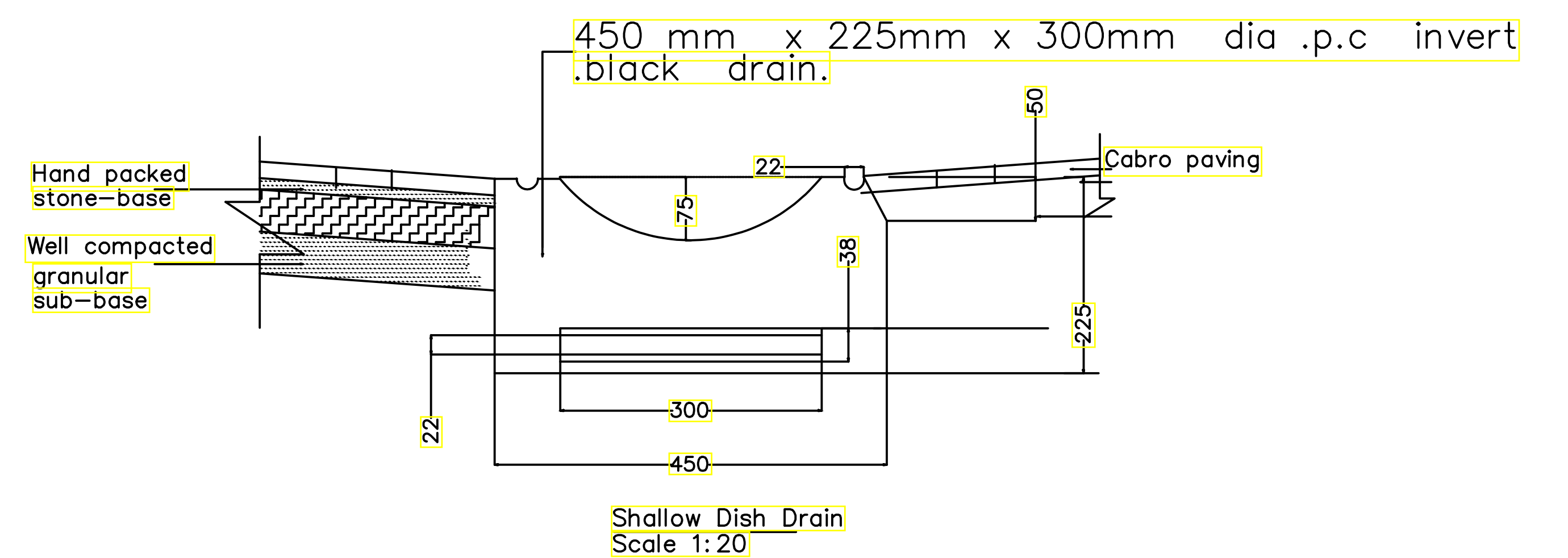
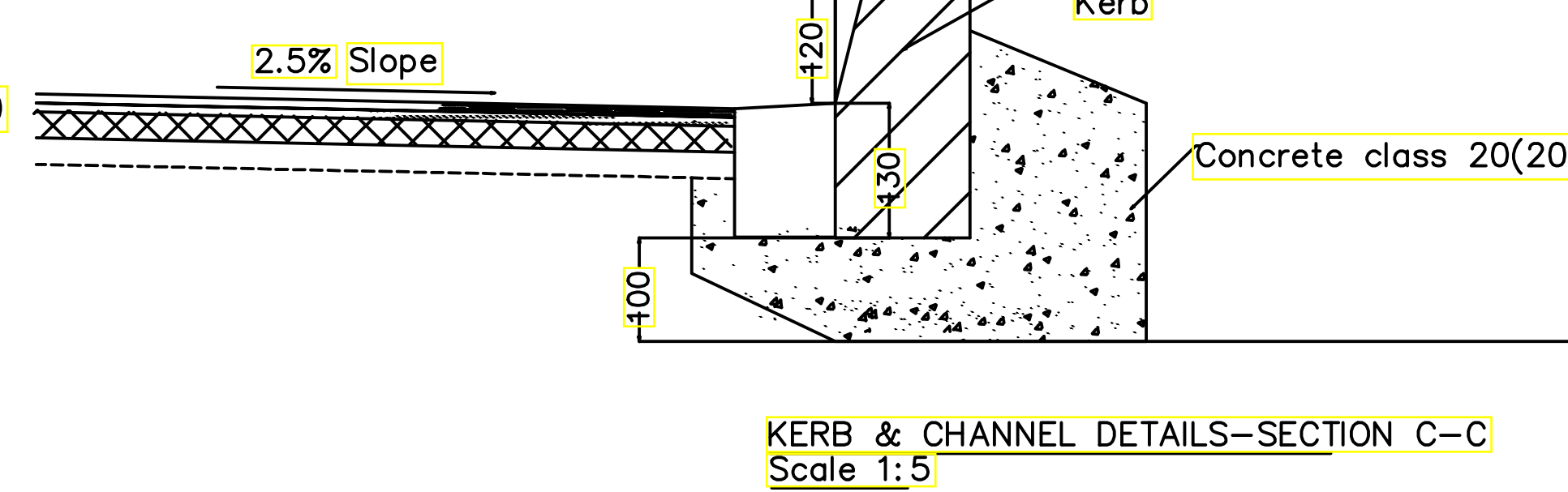
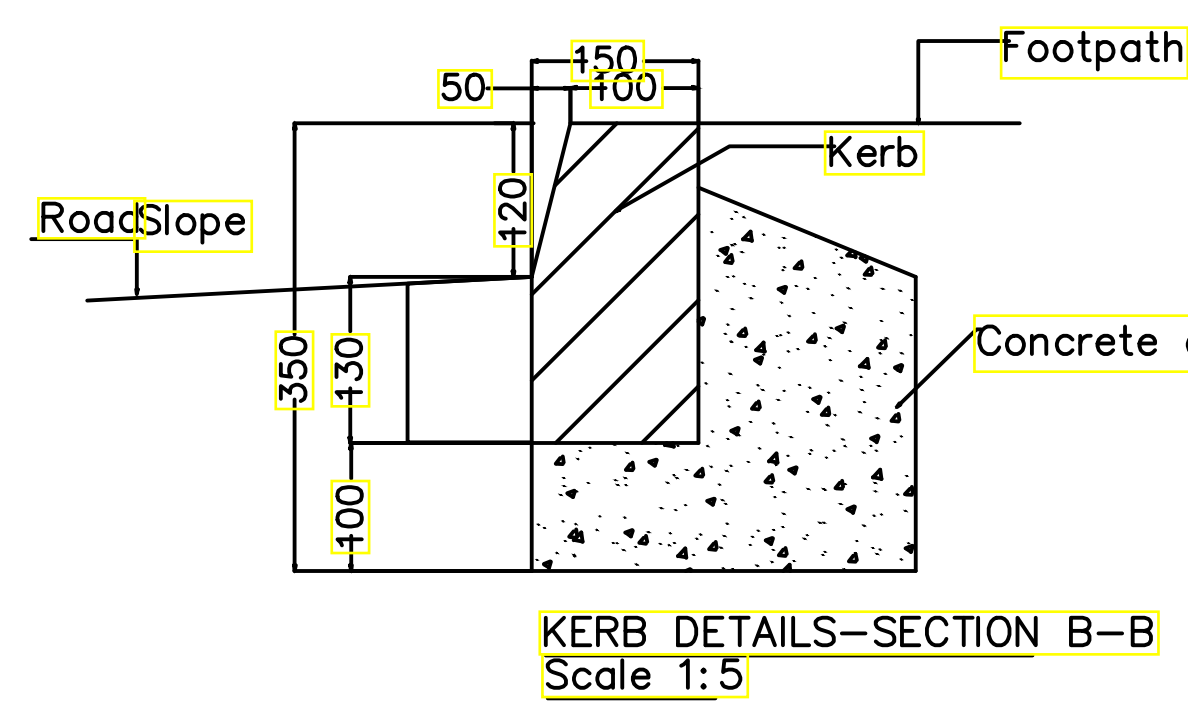
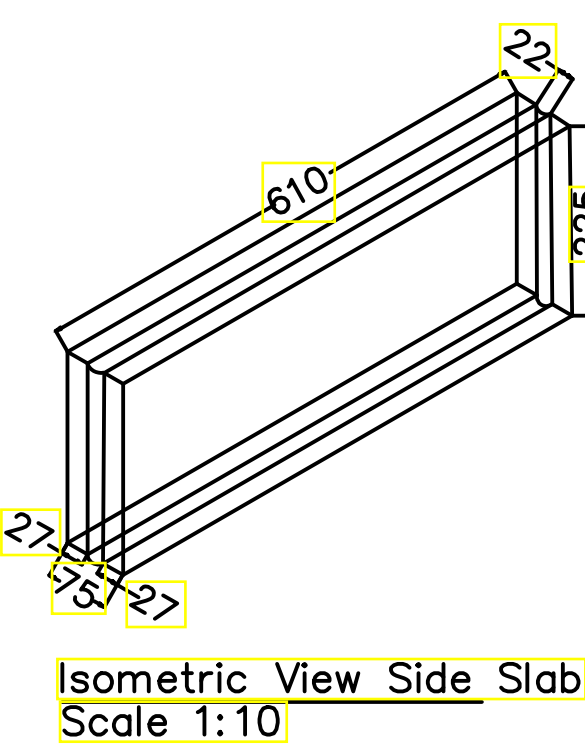
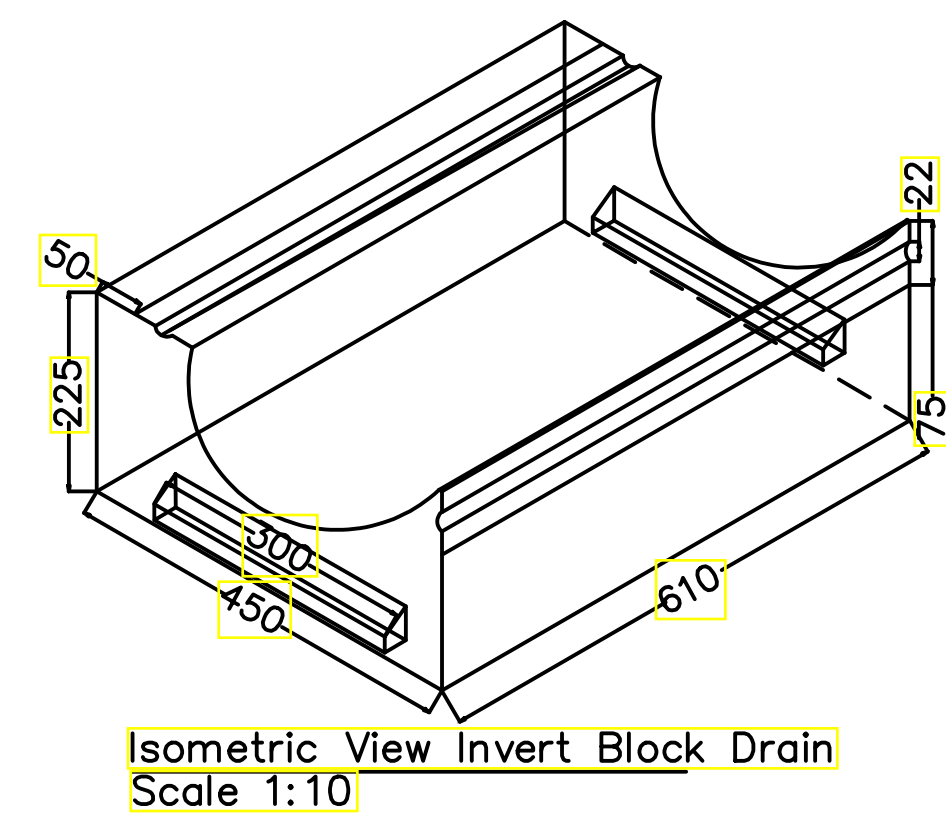


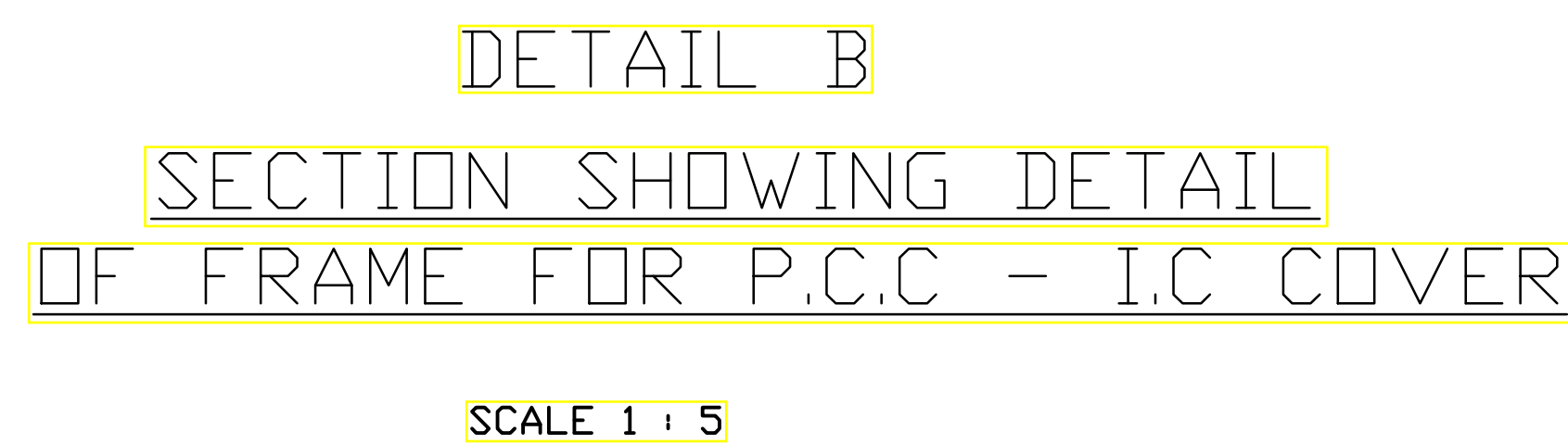
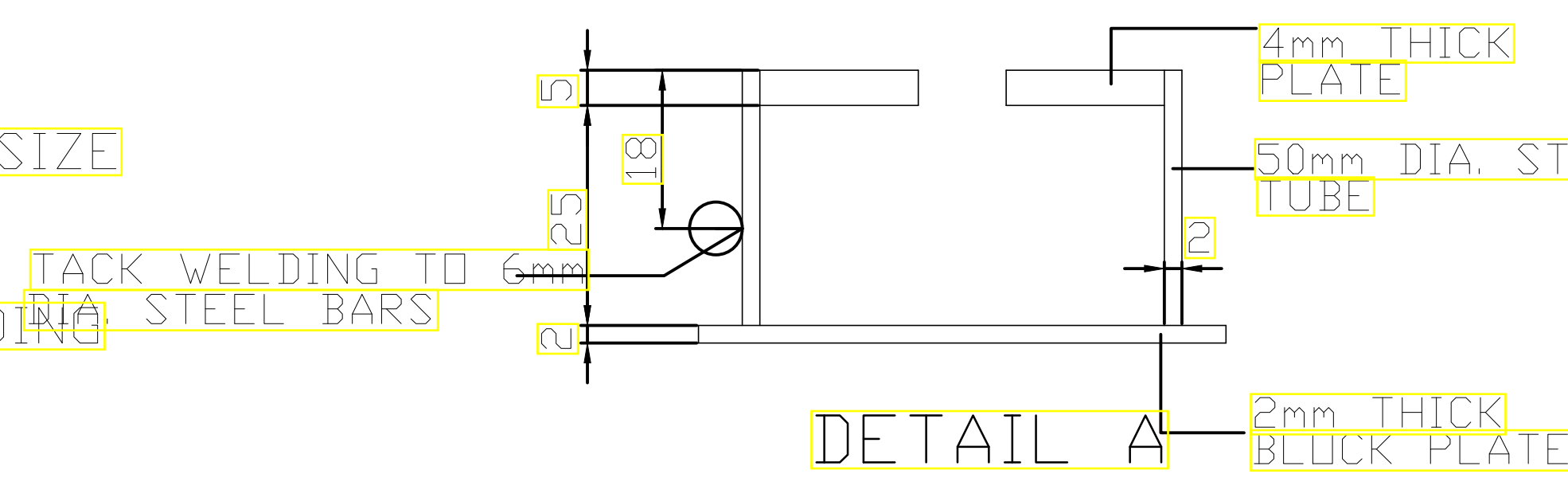
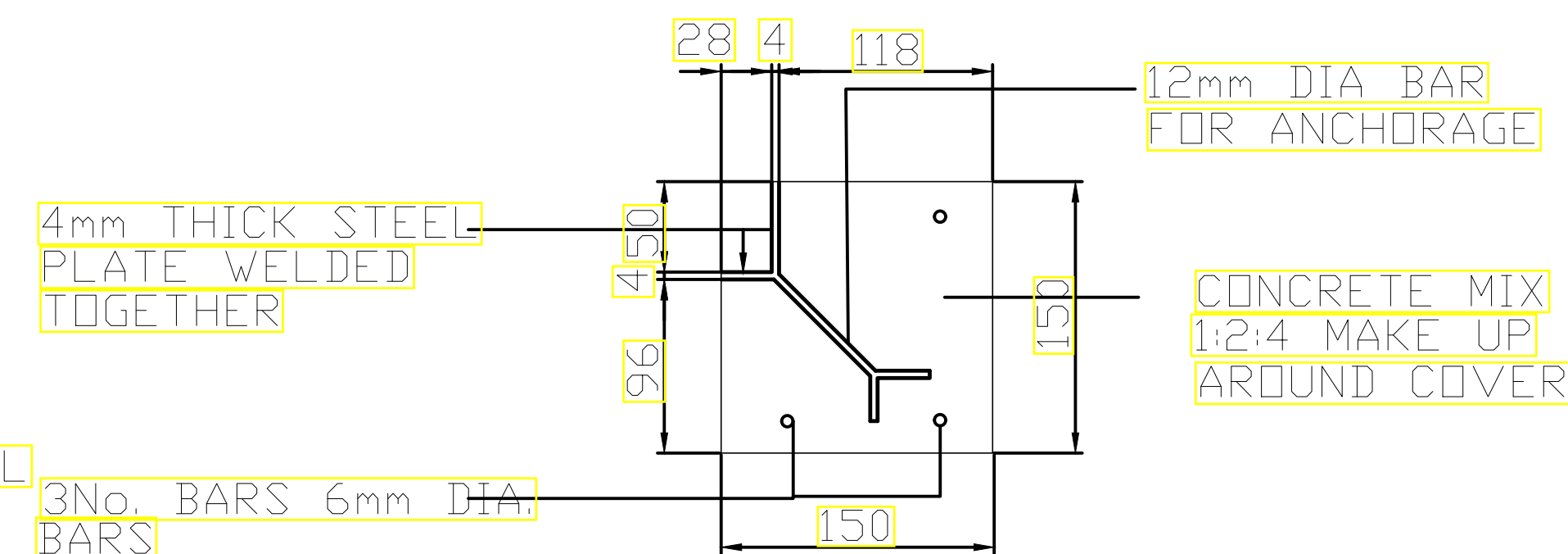
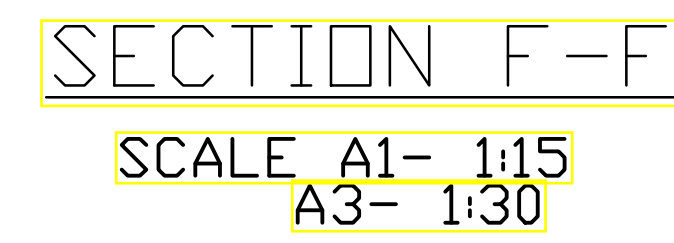
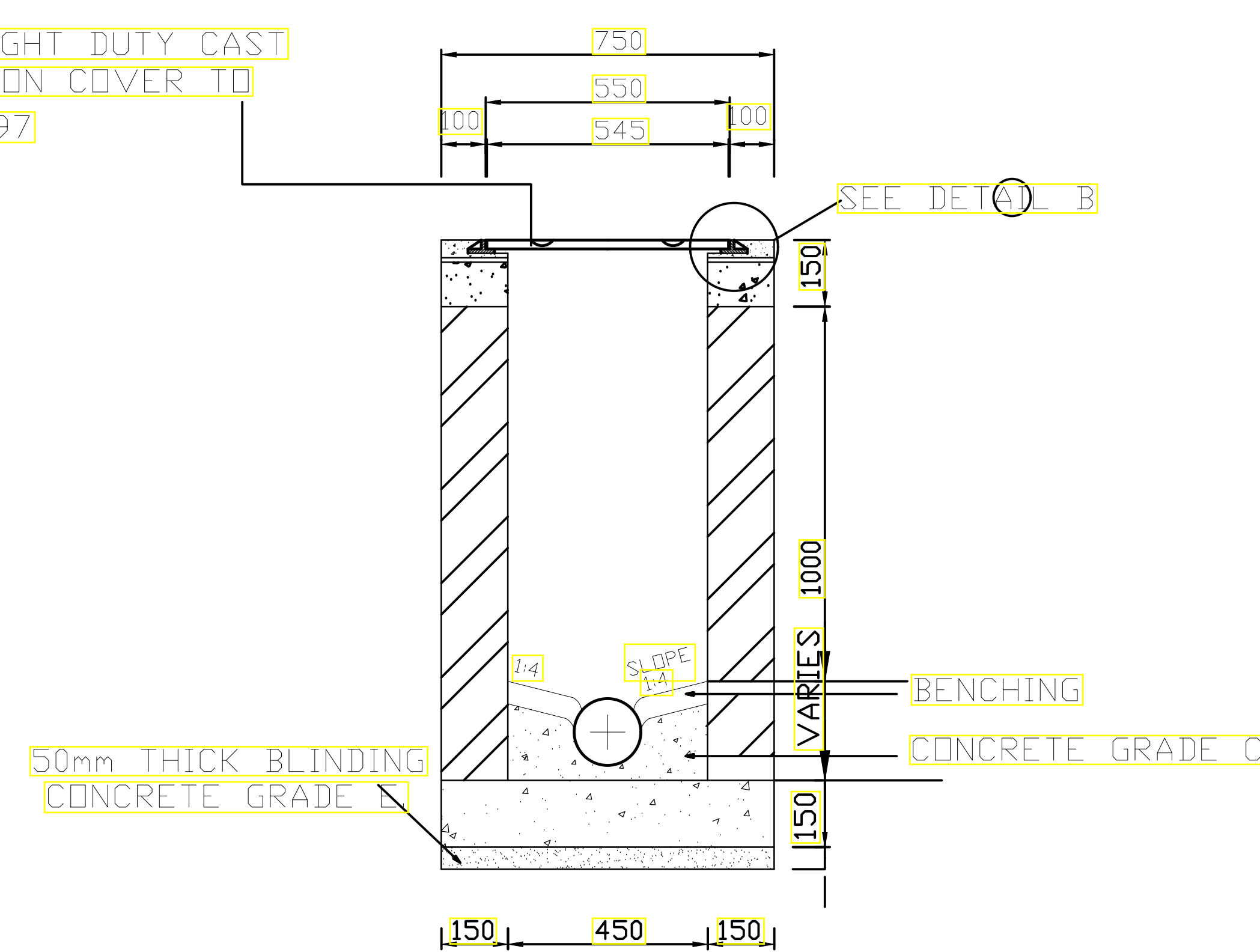
**Section through strip footing E-E
(Boundary Wall)**
scale 1:25

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					<div>Drawn by</div> <div>BMN</div> <div>C</div> <div></div> <div></div> <div></div>
					<div>Checked by</div> <div>H.O.H.</div> <div>B</div> <div></div> <div></div> <div></div>
					<div>Scale</div> <div>AS SHOWN</div> <div>A</div> <div></div> <div></div> <div></div>
<div>DRAWING NO: 06-002S-008</div>					

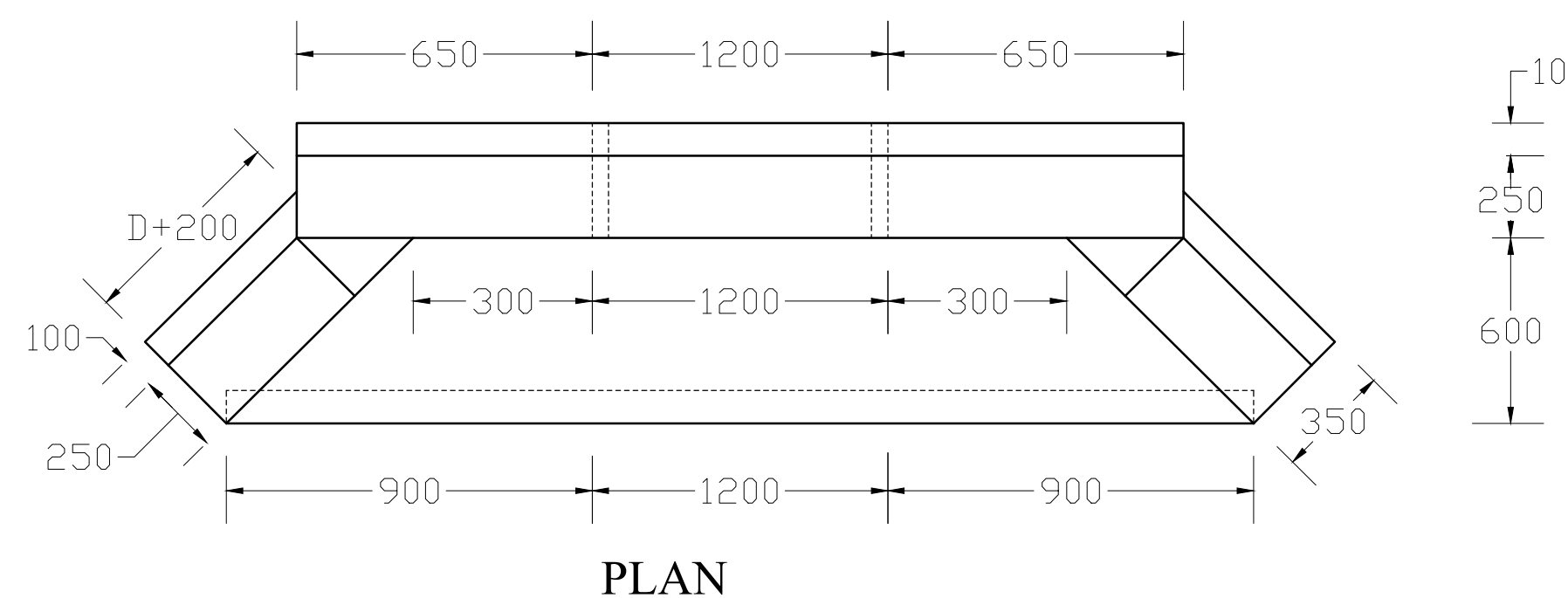
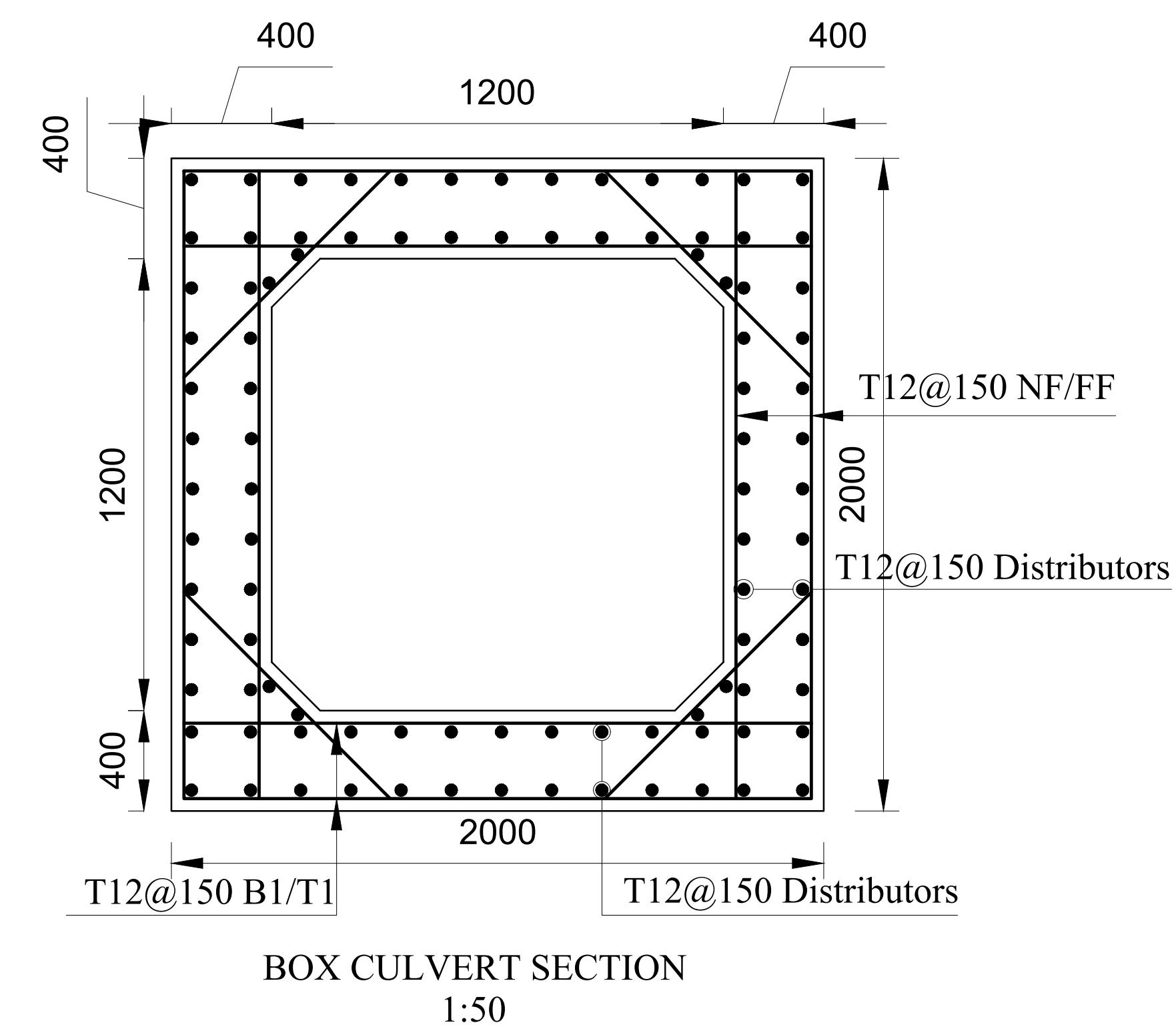


PARKING & DRIVEWAY
One Way Fall
Scale 1:50





1. INSPECTION CHAMBER SHOULD BE SIZE 600x450mm UPTO DEPTH OF 1000mm
2. FOR INSPECTION CHAMBER EXCEEDING DEPTH 1000mm SIZE SHOULD BE 850x1200mm
3. WALLS OF INSPECTION CHAMBER TO BE OF MASONRY



- Head wall concrete to be class $20/20$ 1:2:4 mix
'D' denotes internal diameter of the culvert as specified
Finished road level to be at least 30 cm above the crown of the culvert
All measurements are in mm.

1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.
2. All dimensions are in millimetres unless specified otherwise.
3. All levels are indicated in mm unless specified otherwise.
4. Minimum cover to all reinforcement to be:

- | | |
|-----------------------|--------|
| Stairs, Slabs & Walls | = 35mm |
| Beams (main bars) | = 35mm |
| Columns (main bars) | = 40mm |
| Foundations | = 75mm |
- Maximum tolerance on concrete cover is ± 5 mm.
 - All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.
 - Minimum laps to all bars to be 50 ϕ unless stated otherwise.

8. Safe Bearing Pressure taken to be 200 kN/m².
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Masonry Strength to be 7.0 N/mm².

Designed by	BMN	Rev	Description	By	Date
Drawn by	BMN	D			
Checked by	H.O.H.	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO: 06-002S-011

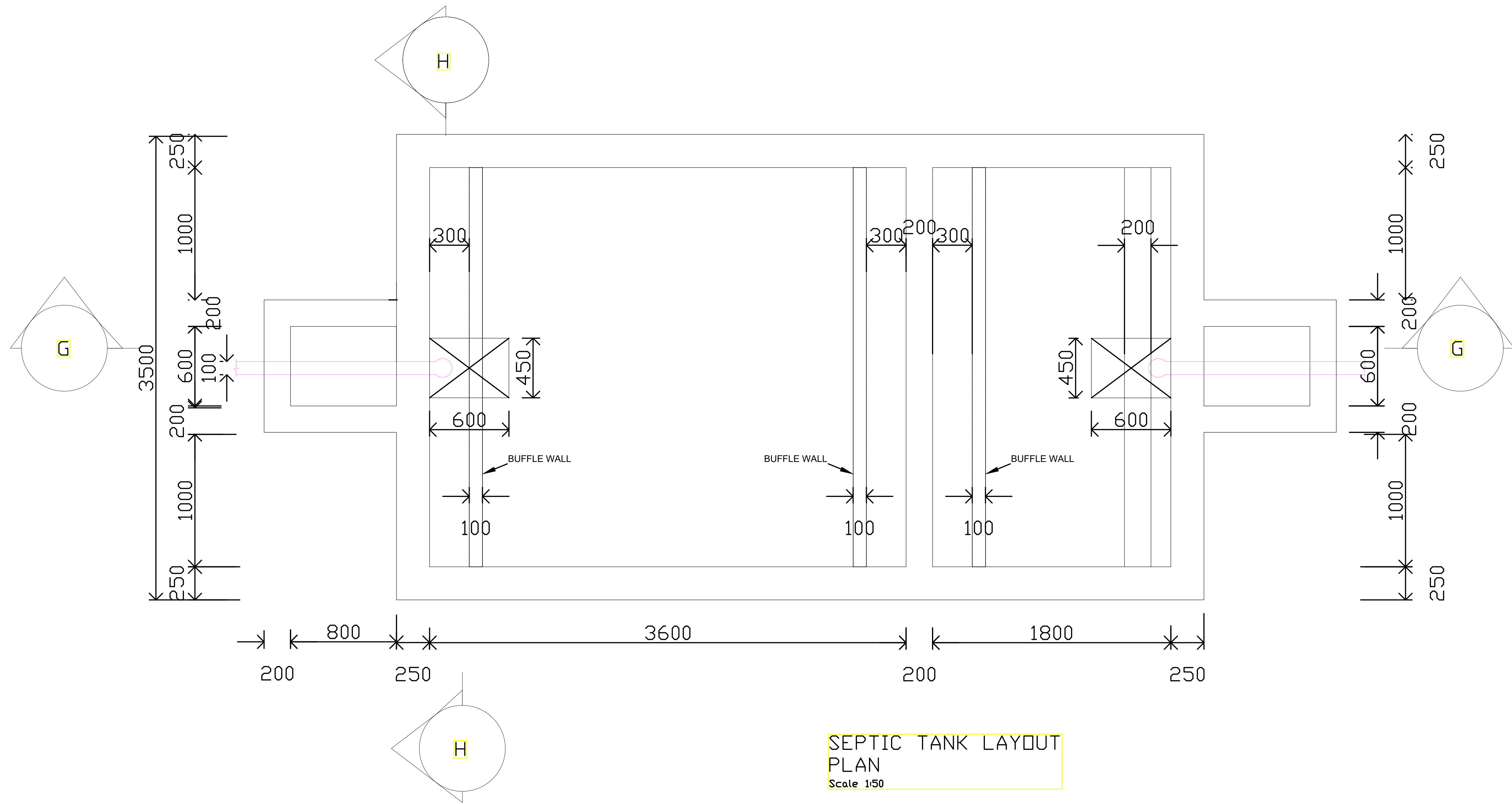
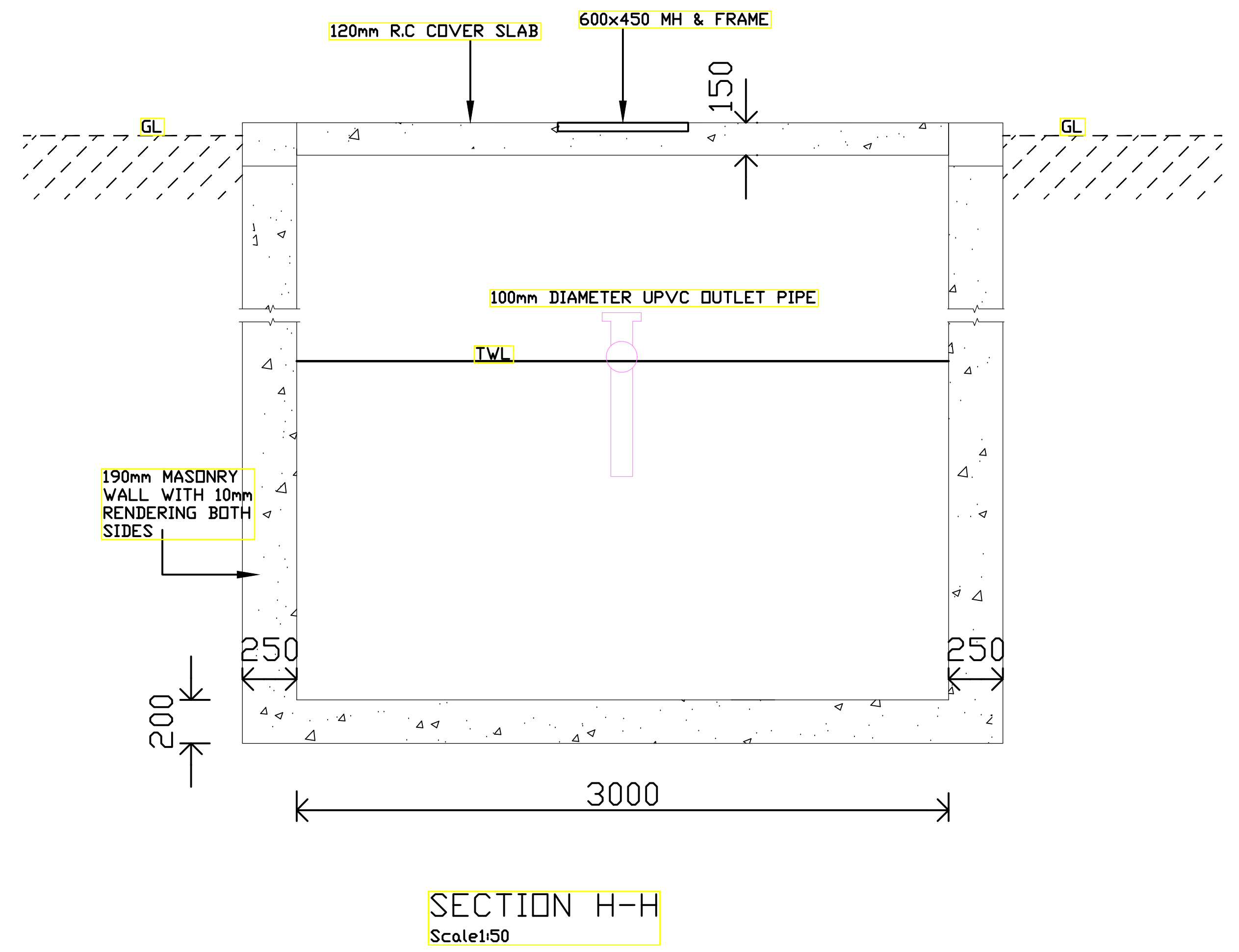
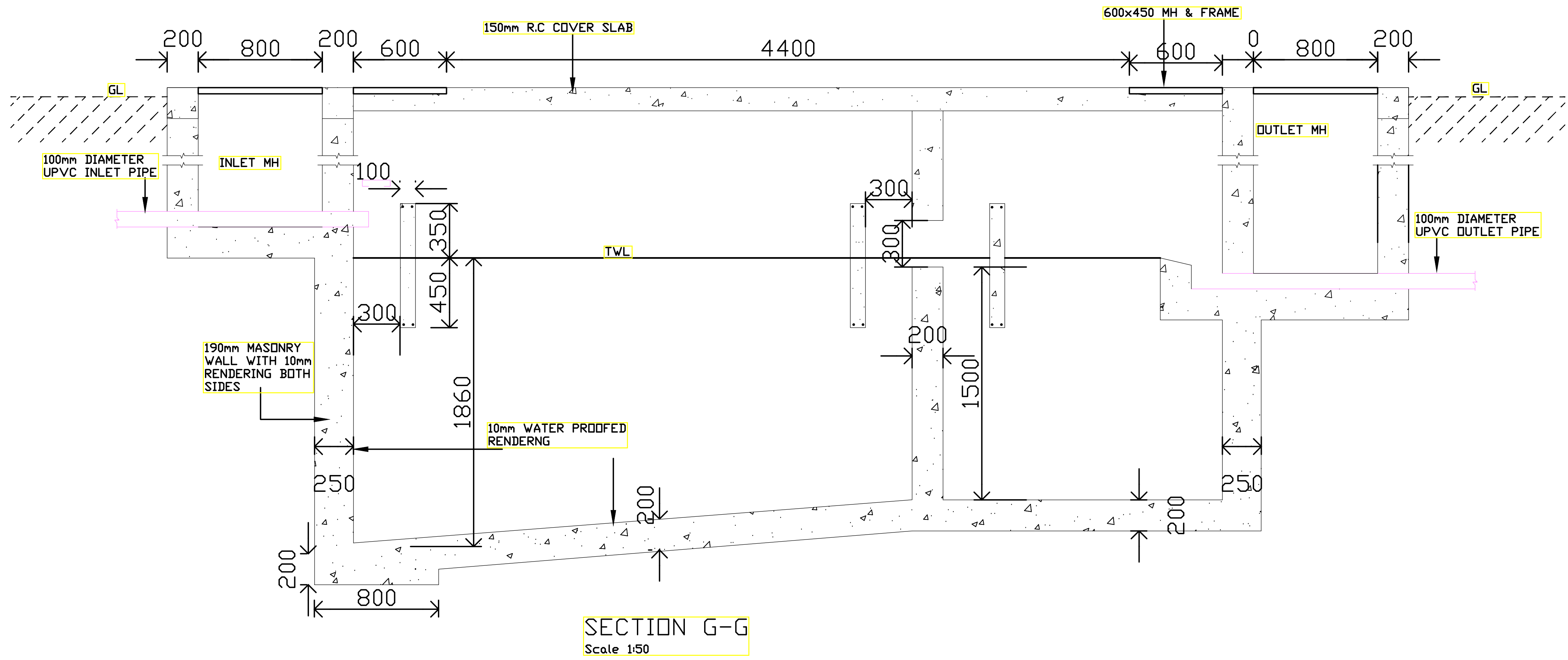
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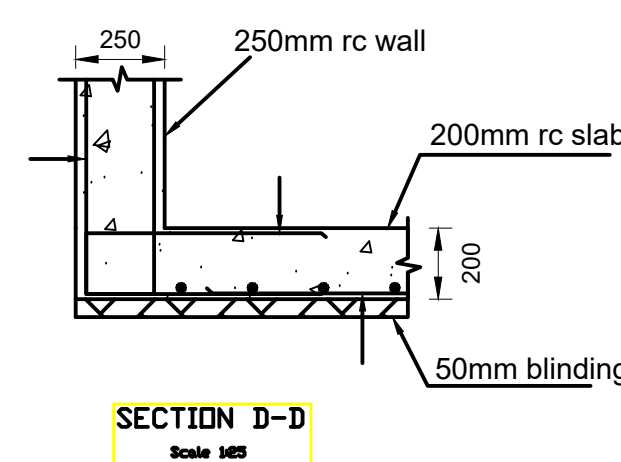
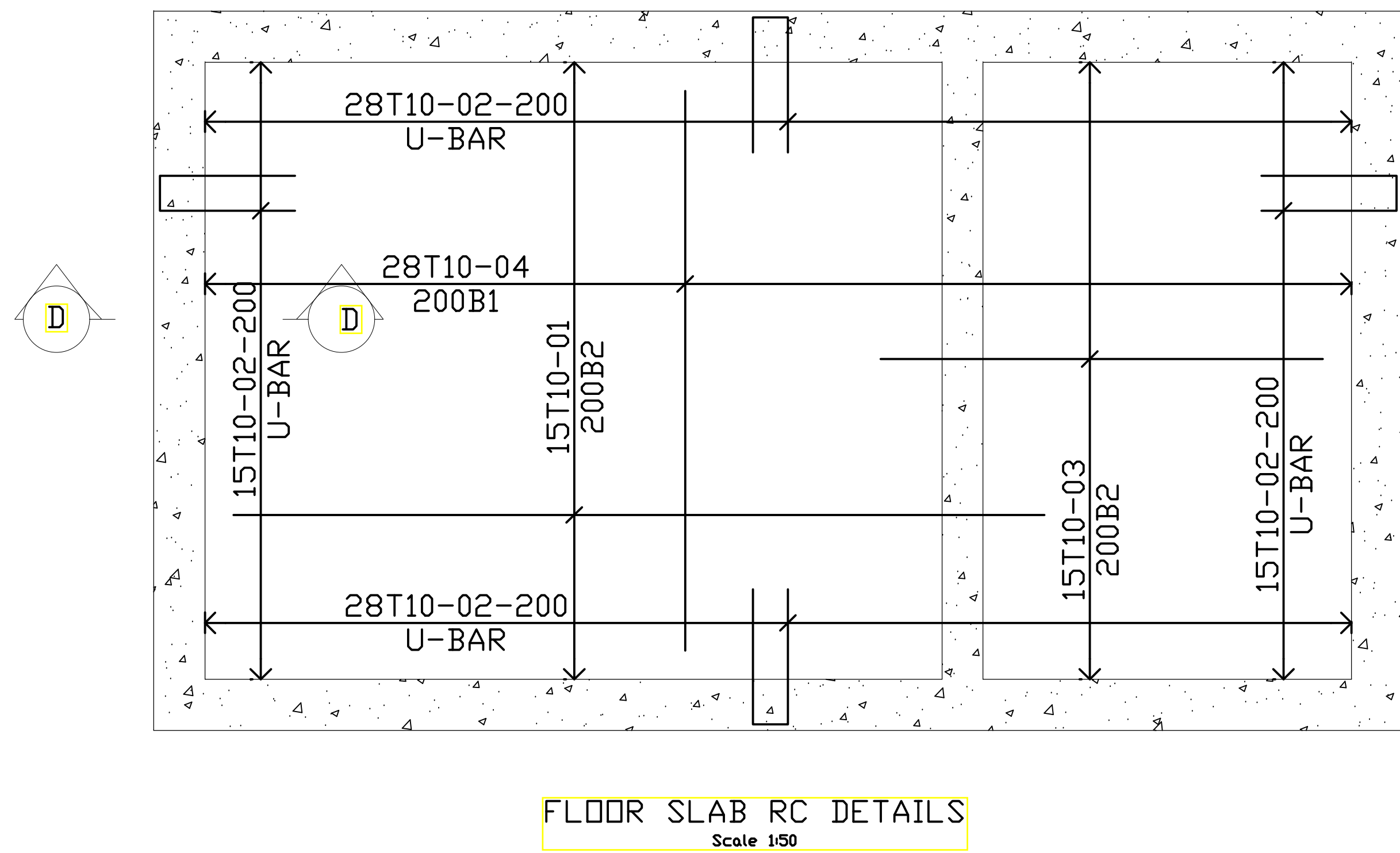
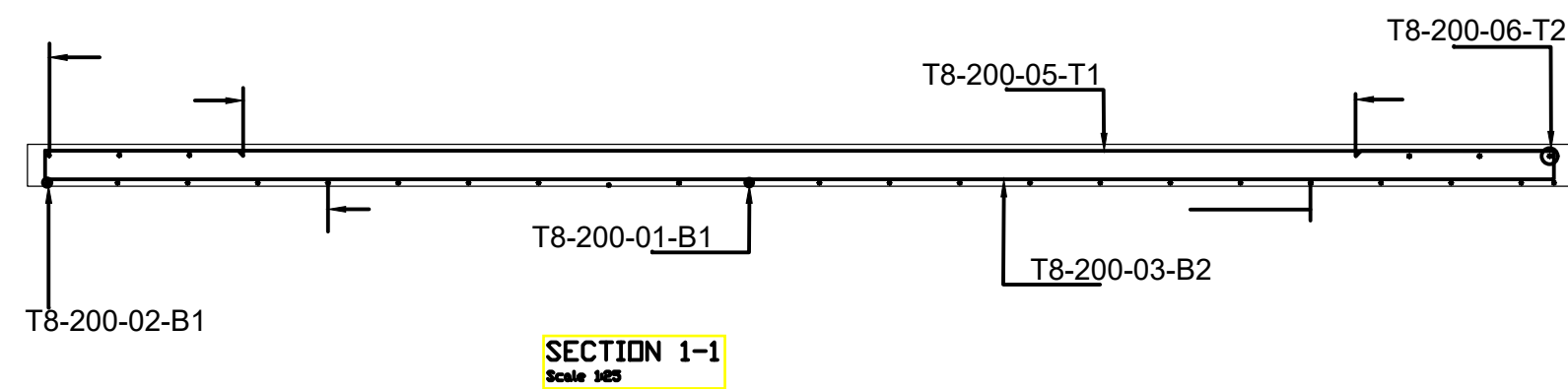
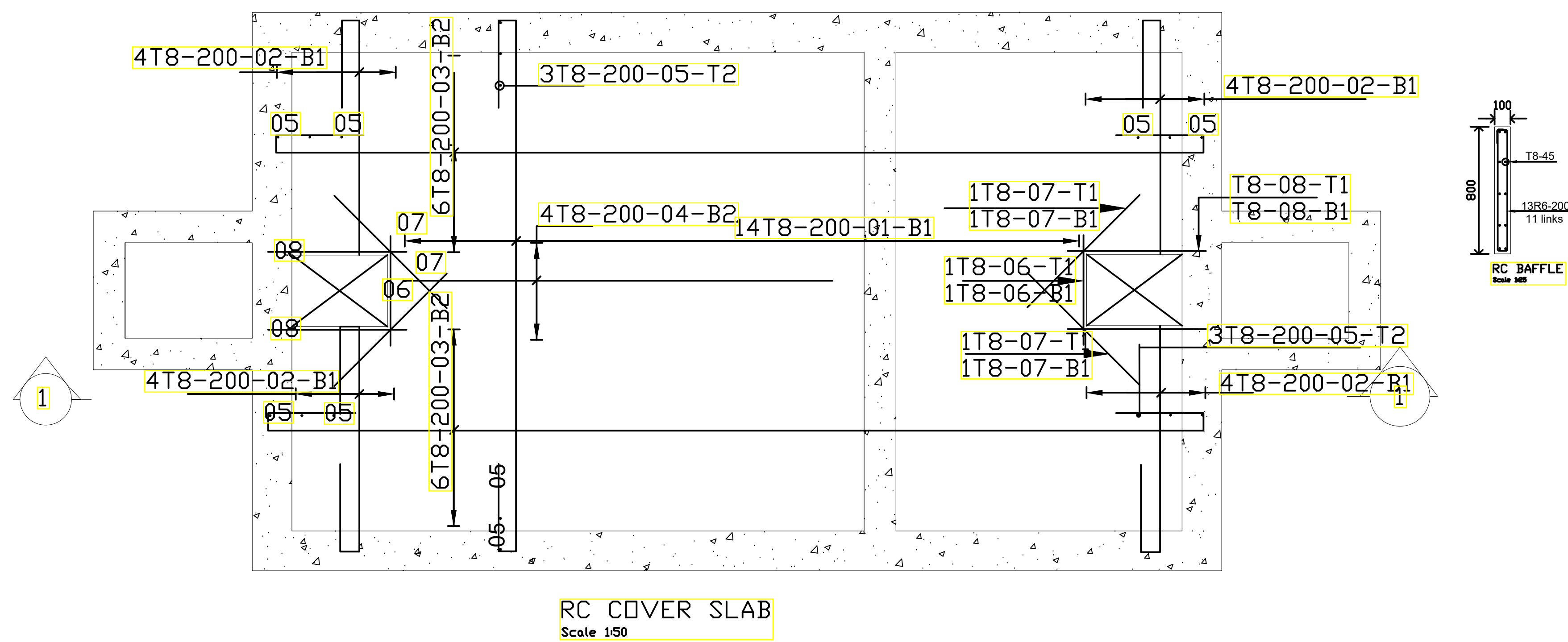
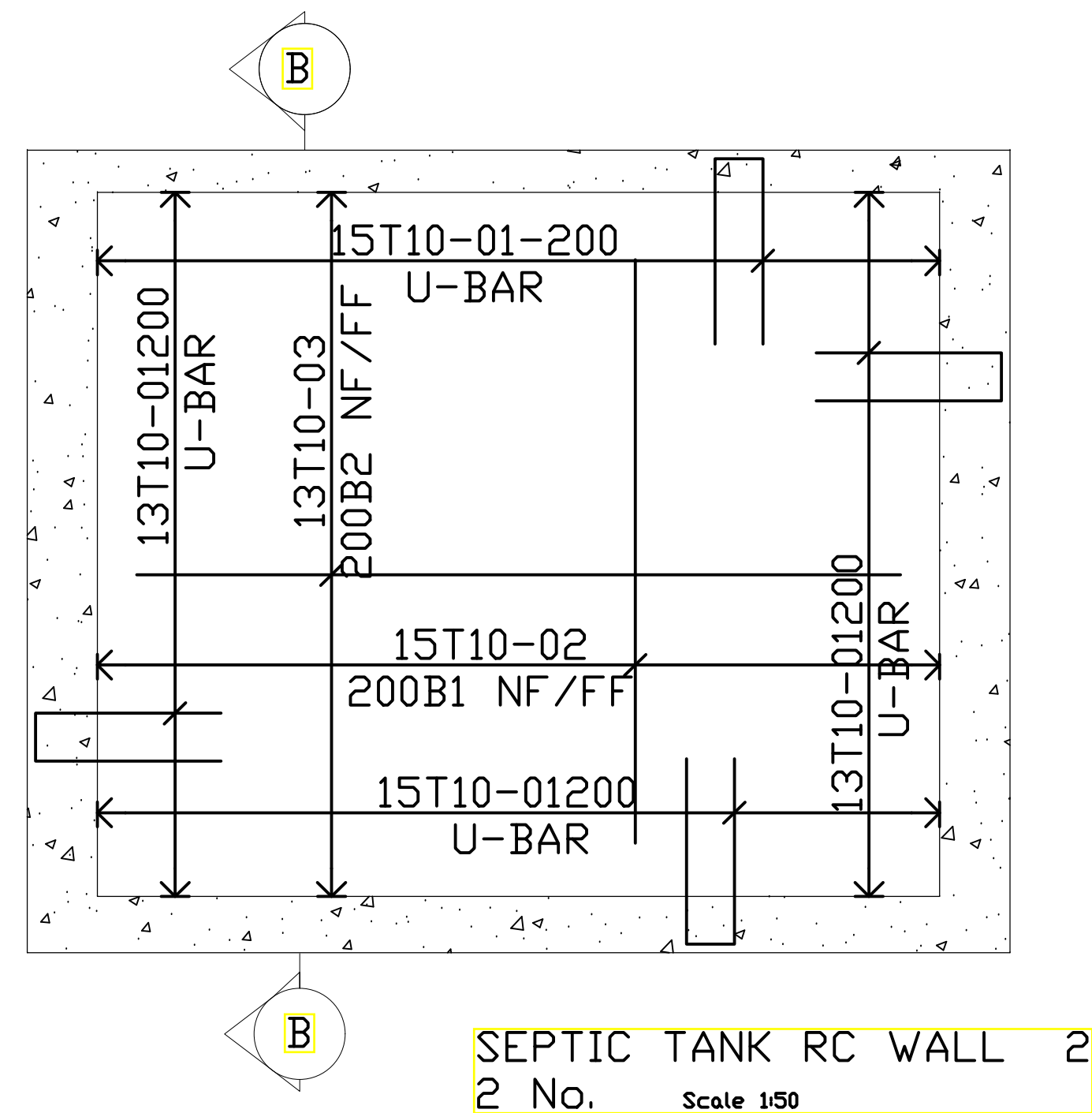
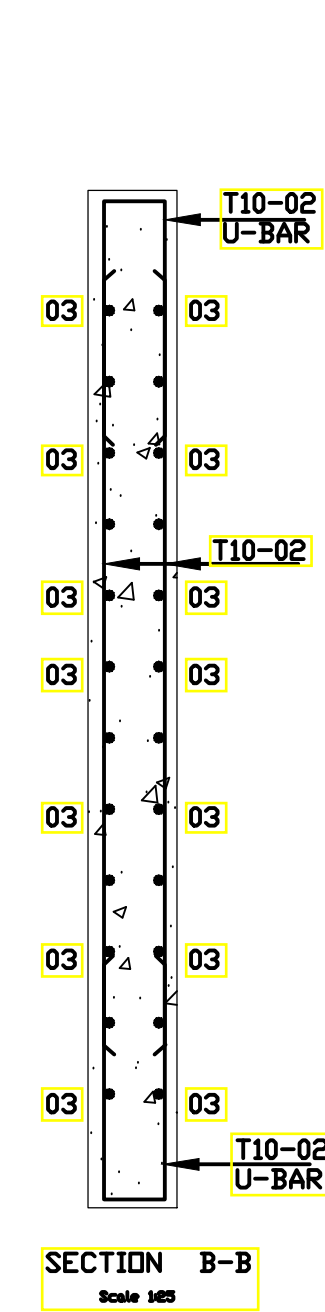
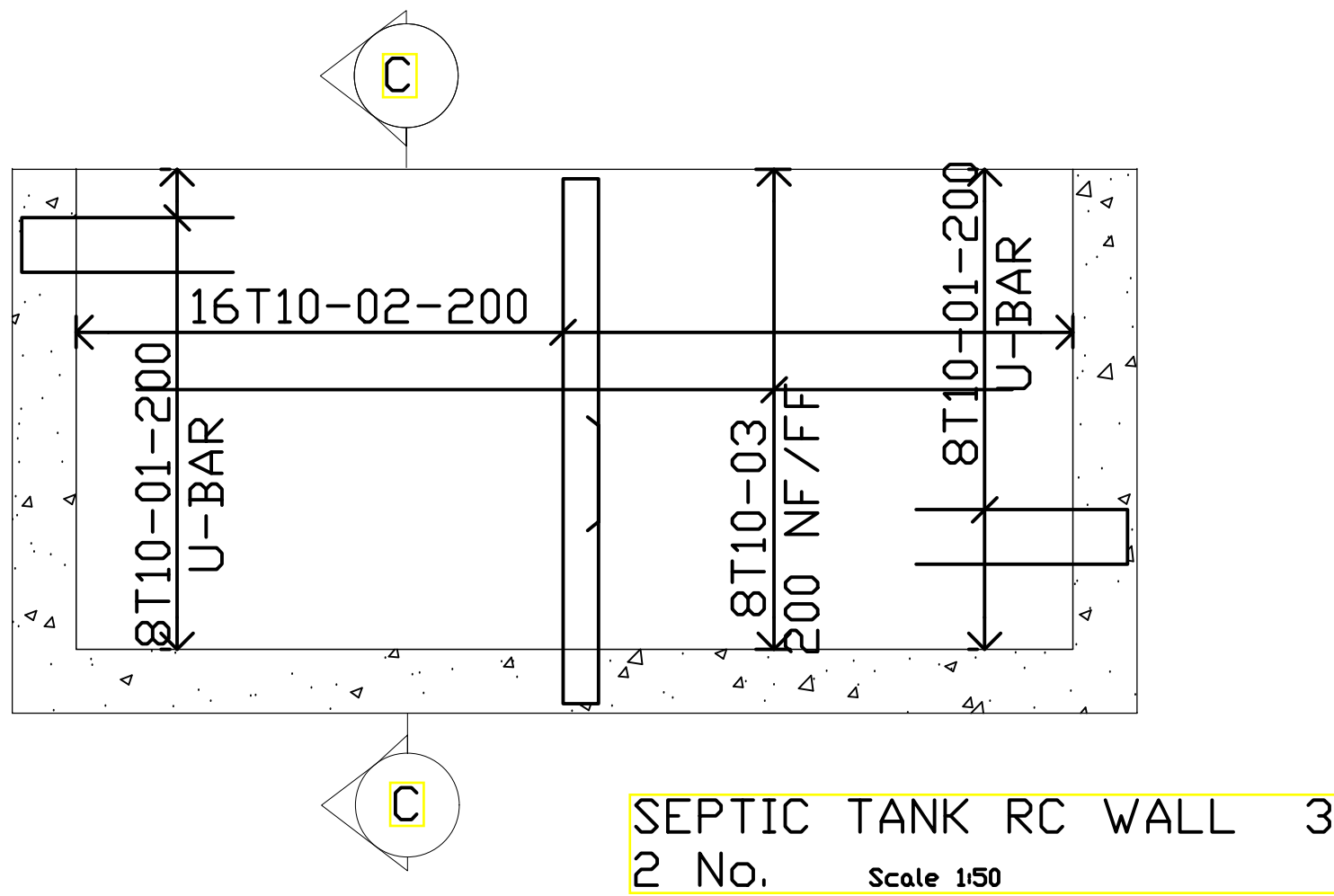
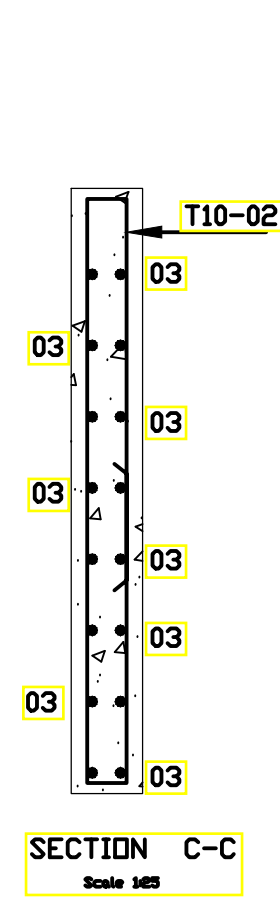
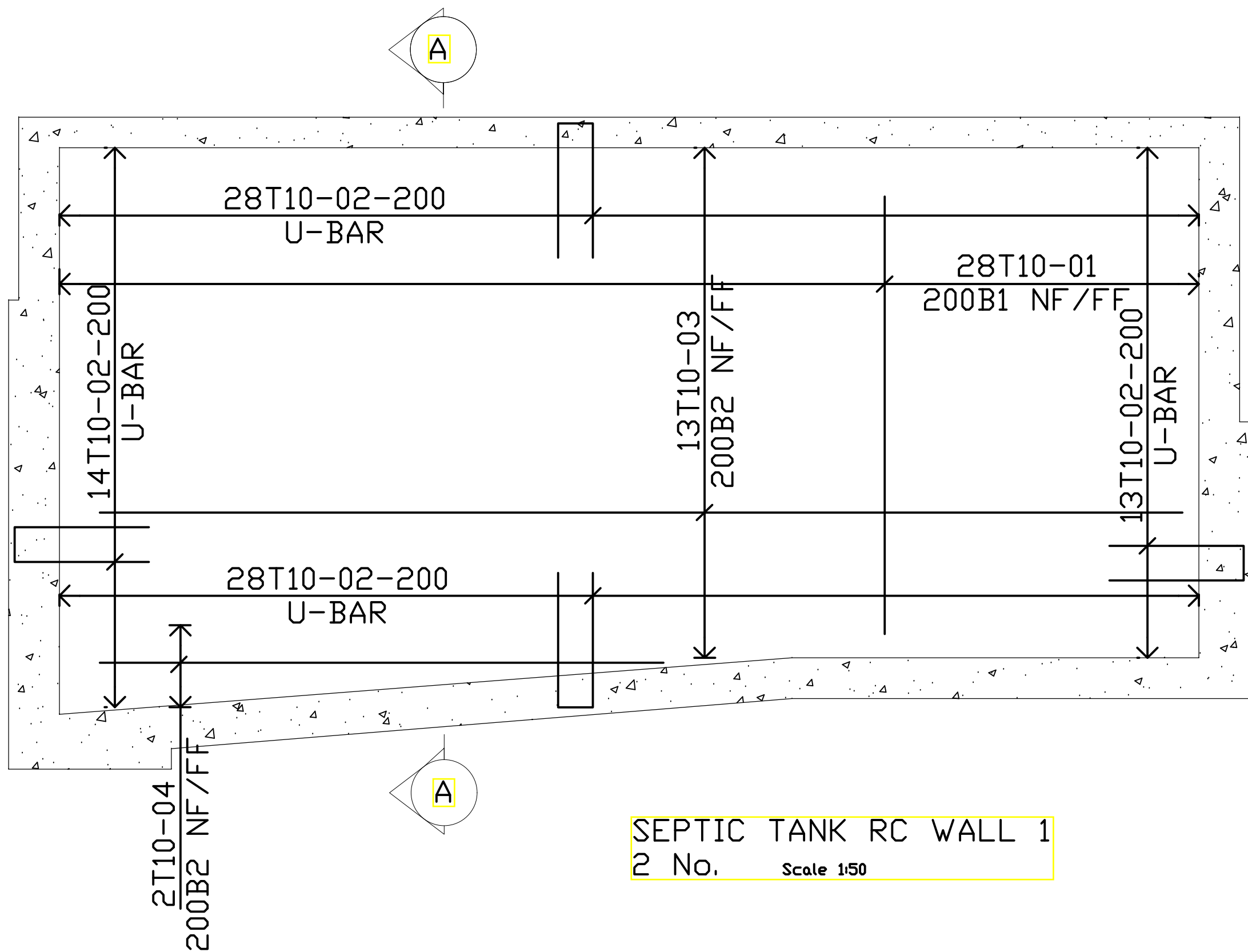
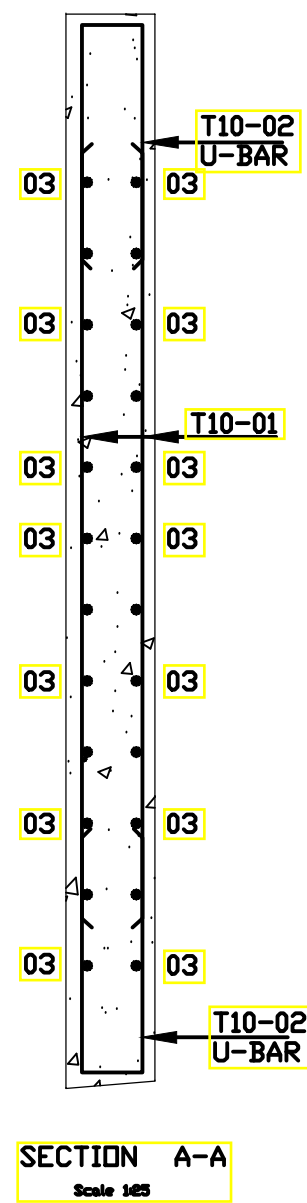
CLIENT:-
**STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE AND THE BLUE ECONOMY.**

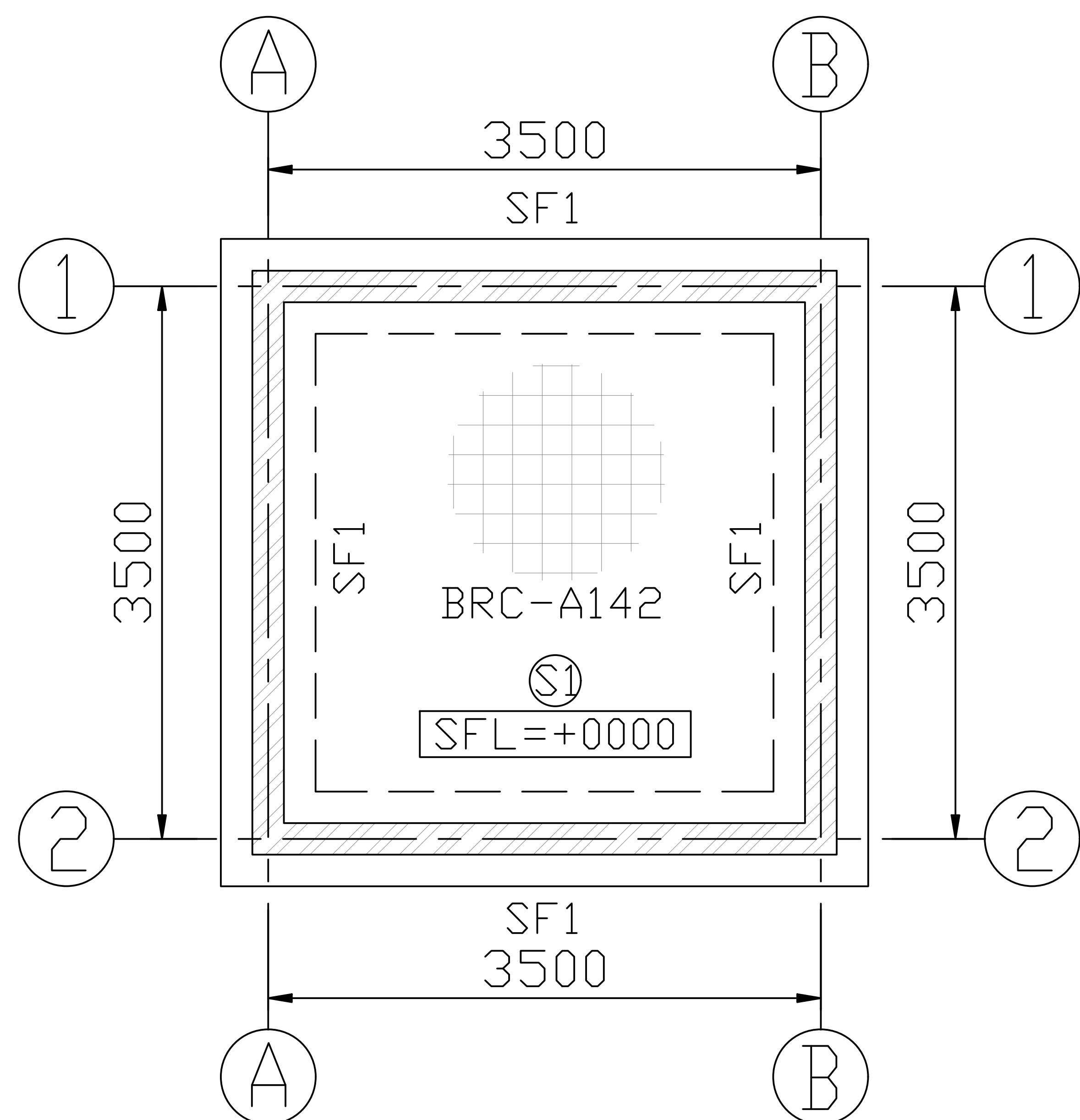
PROJECT:-
PROPOSED KENYA MARINE FISHERIES AND
SOCIO-ECONOMIC DEVELOPMENT (KEMFSD)
NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.

PROJECT TITLE:-
PROPOSED CONSTRUCTION OF MSAMBWENI FISHERIES OFFICE BLOCK.

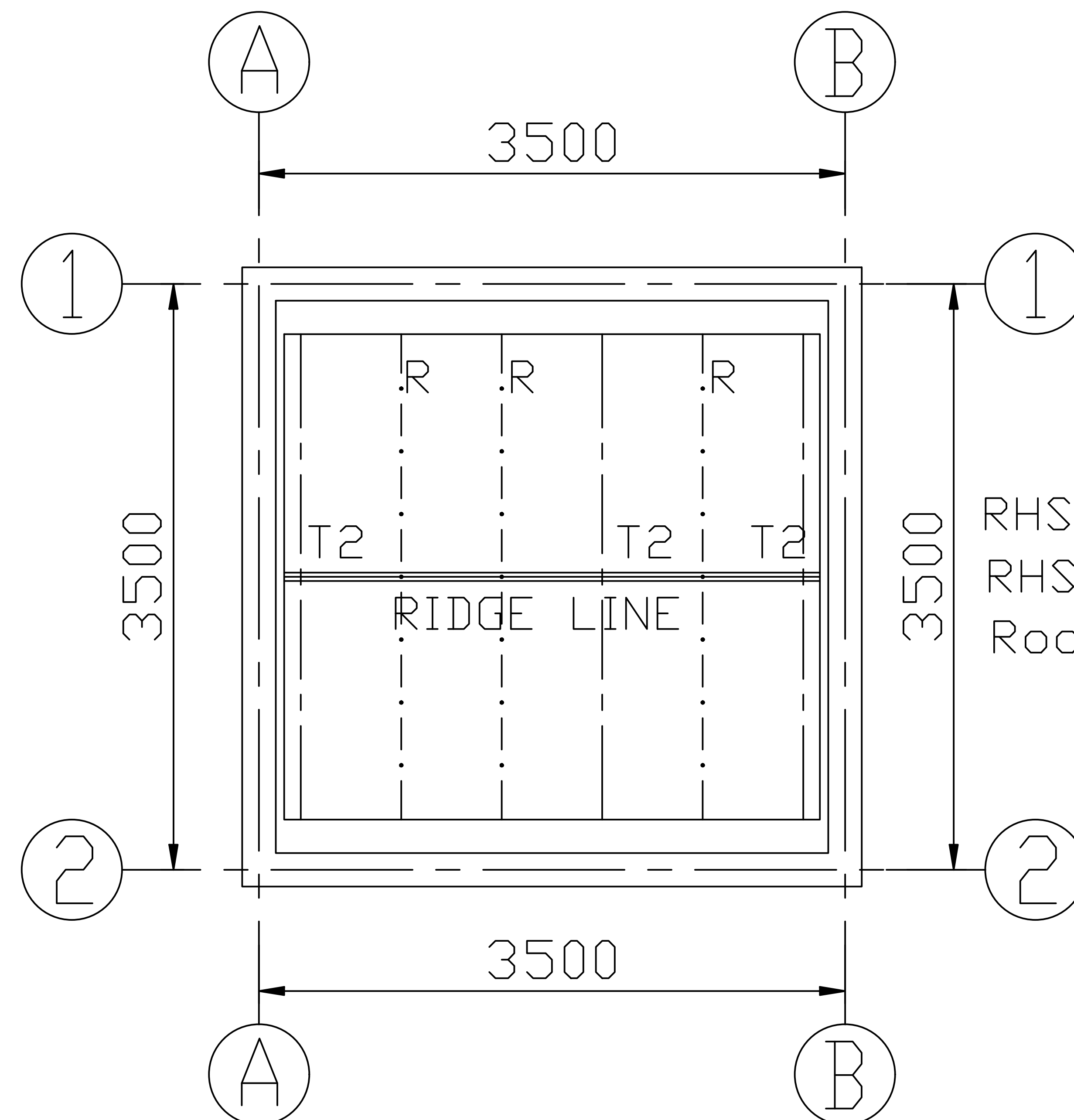
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CIVILWORKS DETAILS





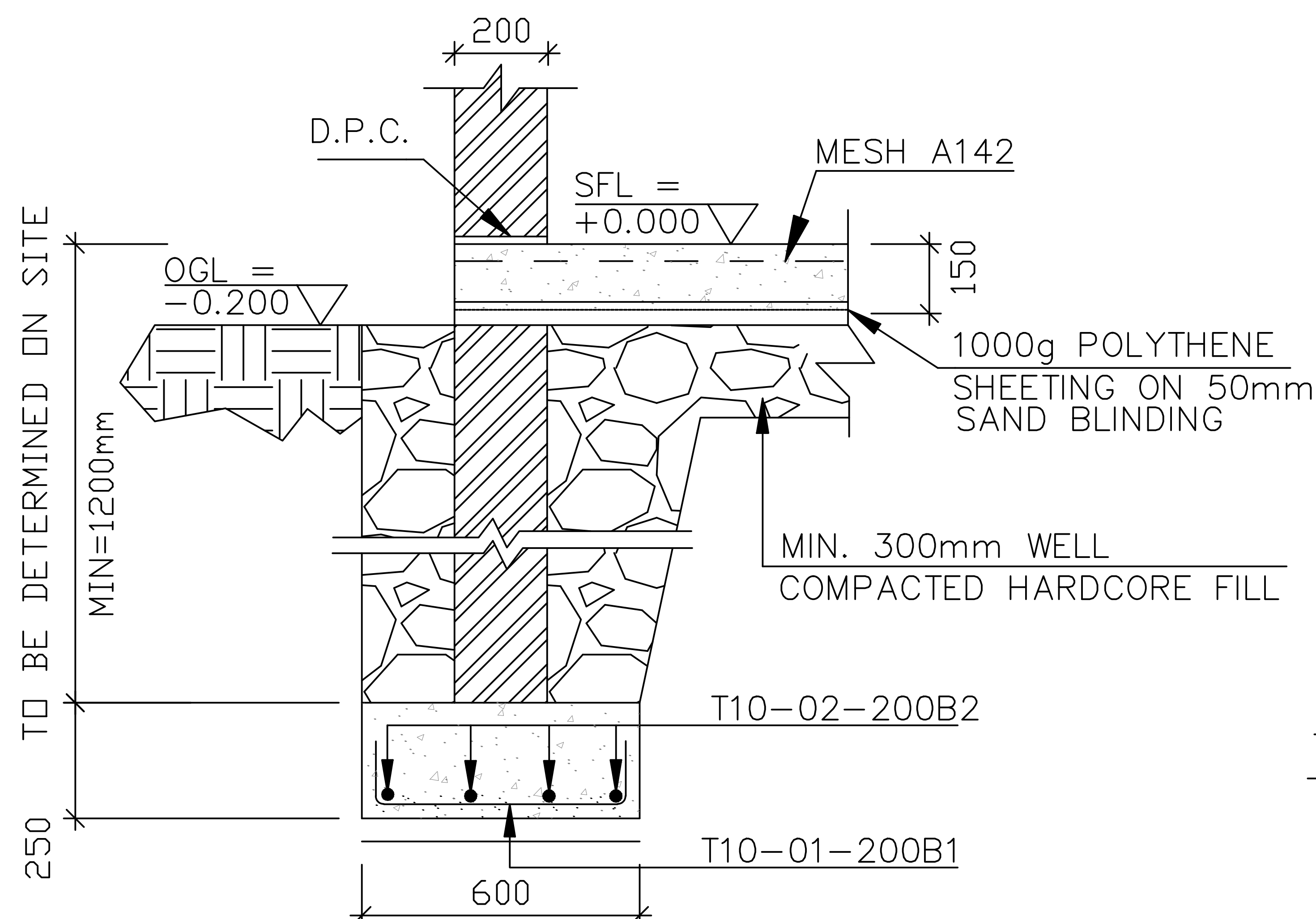


FOUNDATION G.A LAYOUT
MAIN GUARD HOUSE
SCALE 1:75

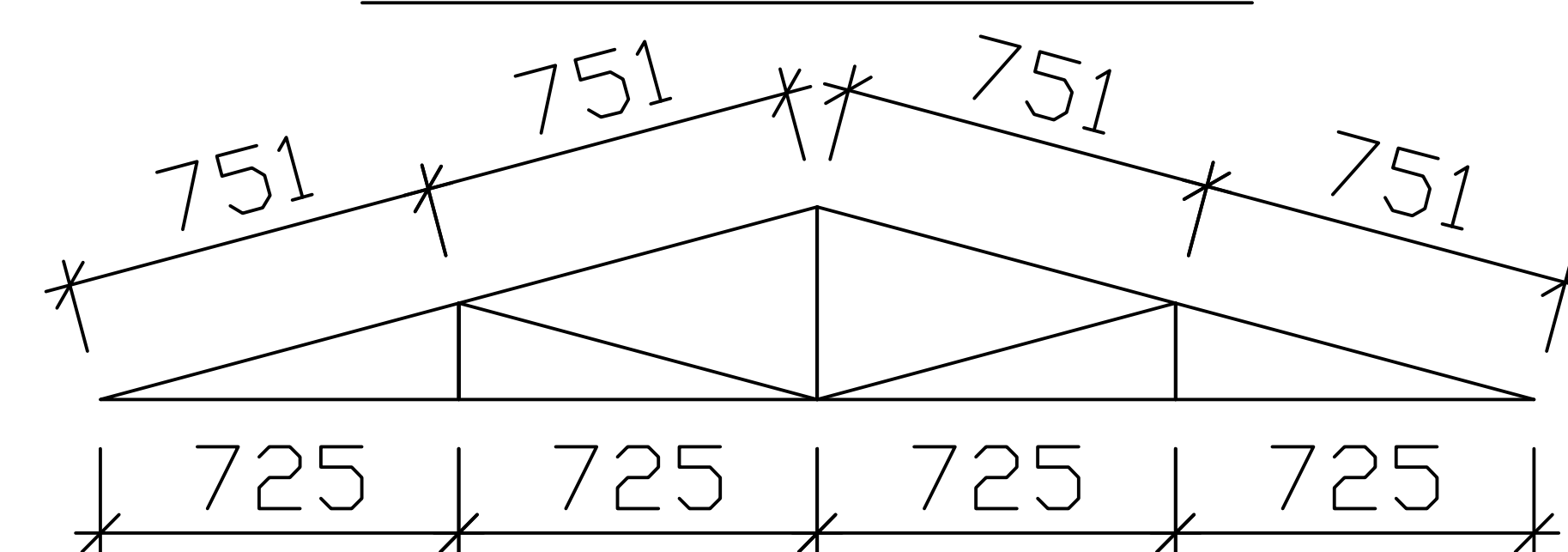


ROOF TRUSS LAYOUT
MAIN GUARD HOUSE
SCALE 1:75

RHS Trusses (T) @ 1.8m c/c
RHS Rafters (R) @ 600mm c/c
Roof Pitch = 15°

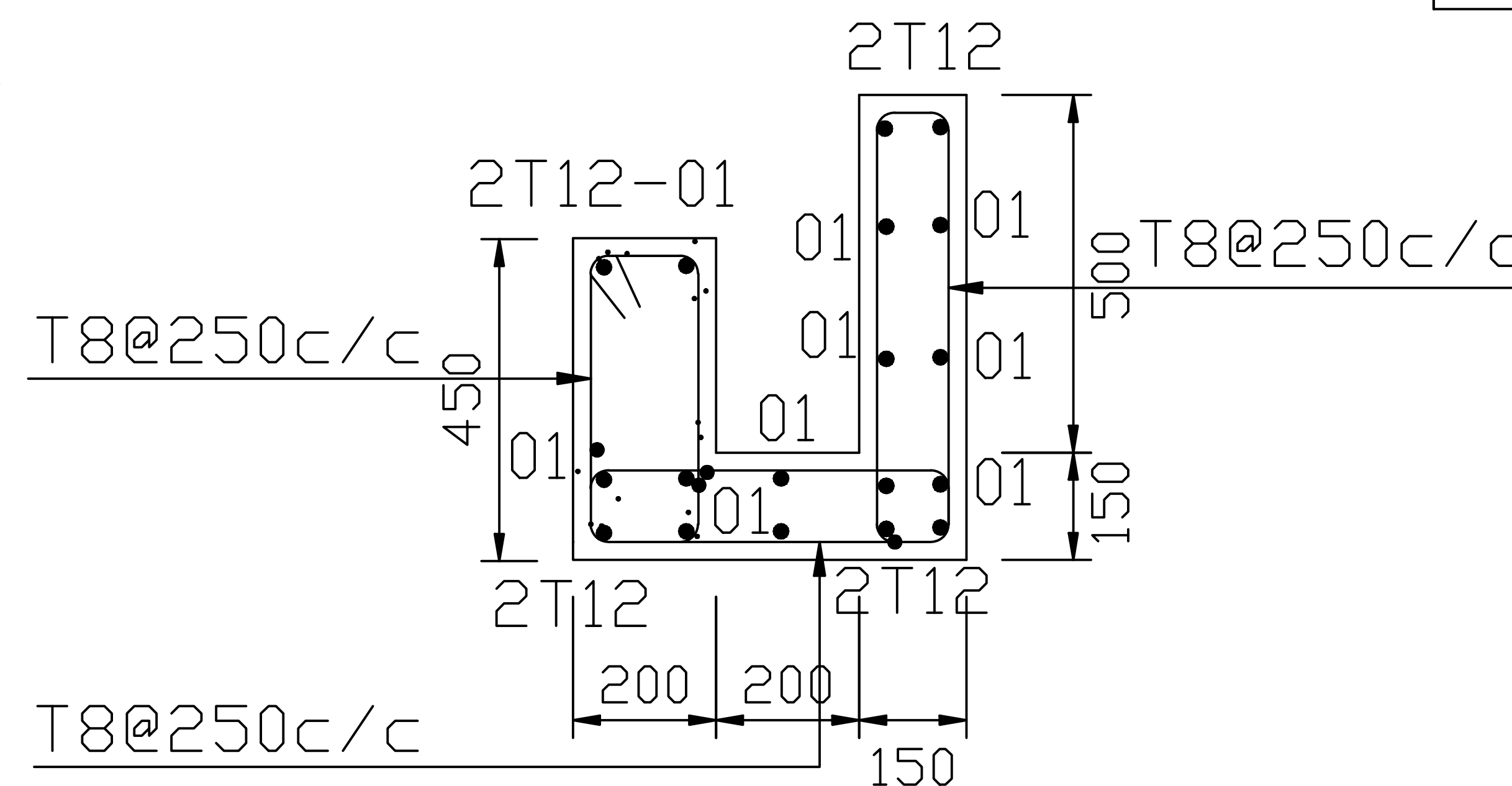


SECTION A-A
SECTION THRO' SF1
EXTERNAL STRIP FOOTING
SCALE 1:25



TYP. TRUSS T2 (3 No.)
SCALE 1:50

SCHEDULE OF MEMBERS	
STRIP FOOTING	
ITEM	SIZE
SF1	600mm x 200mm
SLABS	
ITEM	SIZE
S1	150mm Solid Slab With A142 BRC



TYP. GUTTER & BEAM DETAILS
SCALE 1:25

DRAWING TITLE: PROPOSED CONSTRUCTION OF OFFICE & RELATED INFRASTRUCTURE- MSAMBWENI**DRAWING NUMBER: 06-003E- 001**

No.	DRAWING/ DOCUMENT TITLE	DRAWING NUMBER	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
D	ELECTRICAL ENGINEERING DRAWINGS				
1	LIST OF DRAWINGS	06- 003E- 001	A3	PDF/ EXCEL	Provided
2	LIGHTING & POWER SYSTEM GENERAL NOTES	06- 003E- 002	A3	PDF/ DWG	Provided
3	ELECTRICAL SCHEDULE OF SYMBOLS	06- 003E- 003	A3	PDF/ DWG	Provided
4	GROUND FLOOR LIGHTING LAYOUT	06- 003E- 004	A2	PDF/ DWG	Provided
5	GROUND FLOOR POWER LAYOUT	06- 003E- 005	A2	PDF/ DWG	Provided
6	GROUND FLOOR FIRE ALARM LAYOUT	06- 003E- 006	A2	PDF/ DWG	Provided
7	GROUND FLOOR CCTV LAYOUT	06- 003E- 007	A2	PDF/ DWG	Provided
8	GROUND FLOOR FANS LAYOUT	06- 003E- 008	A2	PDF/ DWG	Provided
9	GROUND FLOOR SCHEMATICS	06- 003E- 009	A2	PDF/ DWG	Provided
10	FIRST FLOOR LIGHTING LAYOUT	06- 003E- 010	A2	PDF/ DWG	Provided
11	FIRST FLOOR POWER LAYOUT	06- 003E- 011	A2	PDF/ DWG	Provided
12	FIRST FLOOR FIRE ALARM LAYOUT	06- 003E- 012	A2	PDF/ DWG	Provided
13	FIRST FLOOR CCTV LAYOUT	06- 003E- 013	A2	PDF/ DWG	Provided
14	FIRST FLOOR FANS LAYOUT	06- 003E- 014	A2	PDF/ DWG	Provided
15	FIRST FLOOR SCHEMATICS	06- 003E- 015	A2	PDF/ DWG	Provided
16	SECOND FLOOR ELECTRICAL	06- 003E- 016	A2	PDF/ DWG	Provided
17	SITE PLAN LIGHTING	06- 003E- 017	A2	PDF/ DWG	Provided
18	SITE PLAN POWER	06- 003E- 018	A2	PDF/ DWG	Provided
19	SITE PLAN CCTV	06- 003E- 019	A2	PDF/ DWG	Provided
20	STREETLIGHT DETAIL	06- 003E- 020	A2	PDF/ DWG	Provided
21	STREETLIGHT DETAIL	06- 003E- 021	A2	PDF/ DWG	Provided
22	SOLAR SCHEMATIC	06- 003E- 022	A2	PDF/ DWG	Provided
23	EARTHING & LIGHTNING PROTECTION DETAIL	06- 003E- 023	A2	PDF/ DWG	Provided
24	SOCKETS & SWITCHES DETAIL	06- 003E- 024	A2	PDF/ DWG	Provided
25	CABLE TRAY DETAIL	06- 003E- 025	A2	PDF/ DWG	Provided

GENERAL NOTES

1. ALL ELECTRICAL WORKS CARRIED OUT SHALL COMPLY WITH THE LATEST EDITION OF IEEE WIRING REGULATIONS, BS 7671 AND RELEVANT LOCAL AUTHORITY REQUIREMENTS.
2. EARTHING INSTALLATION SYSTEM SHALL COMPLY WITH SECTION 5 OF WIRING REGULATION, SECTION 6 & 7 SHALL BE REFERENCED FOR ALL WIRING SYSTEMS, WIRING SHALL BE IN CONCEALED CONDUIT/TRUNKING UNLESS OTHERWISE SPECIFIED BY THE EE.
3. THE MOUNTING HEIGHT OF ALL SWITCH SOCKET OUTLET SHALL BE AT 300mm FROM FINISHED FLOOR LEVEL OR UNLESS OTHERWISE STATED.
4. THE POSITIONING OF ALL LIGHTING LUMINAIRES, SWITCH SOCKET OUTLETS, DISTRIBUTION BOARDS ETC. AS SHOWN IN THE DRAWINGS ARE APPROXIMATE ONLY, THE EXACT POSTIONS SHALL BE DETERMINED AT SITE.
5. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL LOAD BALANCING, AND LABELING OF ALL EQUIPMENT AND SWITCHBOARDS THROUGHOUT THE INSTALLATION.
6. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO LUSE WITH KPCIC AND THE LOCAL AUTHORITIES FOR ALL CLEARANCES, CABLE JOINTING, TESTING AND ELECTRICITY METERING FOR THE INSTALLATION.
7. THE OVERALL RESISTANCE FOR THE EARTHING SYSTEM (ELECTRICAL) SHALL BE LESS THAN 1 OHM AND IN ANY CASE SHALL COMPLY WITH KPCIC REQUIREMENTS.
8. ALL DISCHARGE LIGHTING LUMINAIRES, IF ANY, SHALL BE COMPLETE WITH BUILT-IN CONTROL GEAR, LAMP, LOW-LOSS BALLAST, AND AUXILIARY QUARTZ LAMP FOR DISCHARGE LAMP RE-STRINKING.
9. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLE PENETRATION OPENINGS BETWEEN FLOOR SLAB AND WALLS ETC. WITH APPROVED FIRE RATING MATERIAL/SEALANT TO CONSULTANT'S APPROVAL.
10. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING OF ALL CABLE PENETRATION OPENINGS THROUGH ROOF FLOOR SLABS, WALLS WITH APPROVED WATERPROOF MATERIALS AFTER THE INSTALLATION OF CABLES.
11. ALL FLUORESCENT LIGHTING LUMINAIRES SHALL BE COMPLETE WITH LOW LOSS BALLAST, TUBE LAMPS, ETC. COLOR OF LIGHT OUTPUT SHALL BE AS SPECIFIED BY THE CONSULTANT OR INTERIOR DECORATOR.
12. THE ELECTRICAL SUB-CONTRACTOR SHALL BACKFILL WITH SAND/BAQ THE MANHOLES AND DRAIN PITS TO COMPLY TO TECHNICAL SPECIFICATIONS.
13. ALL CABLES TO BE LAID IN HD UPVC PIPES SHALL BE ENCASED IN CONCRETE WHEN LAID ACROSS THE DRIVEWAY.
14. ALL UNDERGROUND WIRING SHALL BE OF XLPE/SWU/PVC CABLE (IN HD UPVC PIPE FOR HARD GROUND / PAVEMENT).
15. IT IS THE ELECTRICAL SUB-CONTRACTOR'S RESPONSIBILITY TO PROVIDE EARTH FAULT AND OVERCURRENT TRIPPING DISCRIMINATION BETWEEN THE SWITCHBOARD AND THE INCOMING FEEDER TO COMPLY WITH THE LOCAL POWER UTILITY COMPANY AND THE CONSULTANT'S REQUIREMENTS.
16. THE ELECTRICAL SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPOTENTIAL EARTHING BONDING TO ALL METAL PARTS COMPLETED BY THE OTHER TRADES TO THE NEAREST ELECTRICAL PANEL / EARTH BAR.
17. ALL WIRING TO LIGHTING LUMINAIRES SHALL COMPRISE OF APPROVED CEILING ROSE FOR INDOOR INSTALLATION AND WATERPROOF JUNCTION BOX FOR OUTDOOR INSTALLATION, CONNECTION TO LIGHT FIXTURE SHALL BE BY MEANS OF PVC SHEATHED FLEXIBLE CABLE FOR NORMAL SUPPLY, FR CABLE FOR EMERGENCY SUPPLY AND ARMOURED CABLE FOR OUTDOOR INSTALLATION.
18. ALL LIGHTING POLE SPECIFIED SHALL COMPRISE OF RAIL MOUNTED 10A MCB IN THE COMPARTMENT, ALL POLE SHALL HAVE ITS OWN LIGHTING ELECTRODES, OUTDOOR INSTALLATION SHALL BE IN HEAVY DUTY UPVC PIPES OF 100mm DIAMETER (MINIMUM).
19. MCB'S RATED < 100A PROTECTING CABLES SUPPLYING LOADS WITH HIGH SWITCH-ON CURRENT (E.G. MOTORS, HID LAMPS, ETC.) SHALL HAVE TYPE 'C' MAGNETIC CURVE RATING UNLESS OTHERWISE INDICATED IN THE PLANS. UNLESS OTHERWISE STATED, ALL BUSBAR ARE OF HD COPPER AND SHALL BE RATED AT A CURRENT DENSITY OF NO MORE THAN 1.55A/sq. mm.
20. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY LABOUR, MATERIALS AND EQUIPMENT FOR SATISFACTORY COMPLETION OF THE ENTIRE ELECTRICAL INSTALLATION AS GENERALLY DESCRIBED IN THE SPECIFICATION AND/OR SHOWN ON DRAWINGS.
21. ALL LOCATIONS OF EQUIPMENT AND CABLE ROUTES SHOWN ON THE DRAWING ARE APPROXIMATE. THE EXACT LOCATIONS MUST BE CO-ORDINATED ON SITE BEFORE INSTALLATION, FULLY CO-ORDINATED SHOP DRAWINGS MUST BE SUBMITTED TO THE CONSULTANT FOR APPROVAL BEFORE COMMENCEMENT OF WORK.
22. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DEWA REGULATIONS AND THE APPROVAL OF POWER UTILITY COMPANY. THEY SHALL BE PAINTED WITH A COAT OF ANTI-RUST PAINT AND TWO COATS OF SEMI-GLOSS TEAK PAINT OF BEST QUALITY TO THE APPROVAL OF THE CONSULTANT.
23. ALL POWER CONDUITS AND TRUNKING WHICH ARE EXPOSED SHALL BE PAINTED WITH A COAT OF RUST-RESISTING PRIMER AND TWO COATS OF ELECTRIC ORANGE.
24. ALL CONDUITS SHALL BE G.I., G.I. CONDUITS SHALL COMPLY WITH THE LATEST DEWA REGULATIONS ON ELECTRICAL INSTALLATIONS, MINIMUM SIZE SHALL NOT BE LESS THAN 20mm (INSIDE DIAMETER). ALL THREADS IN CONDUITS SHALL BE TREATED WITH ALUMINIUM PAINT OR SIMILAR ANTI-RUST PAINT TO PREVENT CORROSION AT JOINTS AND TERMINATION, CONNECTIONS SHALL BE BY MEANS OF COUPLER, SHALL BE USED FOR DIFFERENT CIRCUITS.
25. PHASE SEGREGATION SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE IEE WIRING REGULATIONS, SEPARATE CONDUITS SHALL BE USED FOR CABLES OF DIFFERENT CIRCUIT CATEGORIES, FOR 3 PHASE FINAL CIRCUITS, SEPARATE CONDUITS SHALL BE USED FOR DIFFERENT CIRCUITS.
26. ALL LIGHTING POINTS SHALL BE PROVIDED WITH CIRCUIT PROTECTIVE CONDUCTORS AND ALL METAL PARTS SHALL BE CONTINUOUSLY EARTHED THROUGHOUT.
27. THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ALL LIGHT LUMINAIRES AS SHOWN ON THE DRAWINGS, EACH FITTING SHALL HAVE ITS OWN INDEPENDENT SUPPORT REGARDLESS OF SURFACE, RECESSED OR SUSPENDED MOUNTING.
28. EACH CIRCUIT SHALL BE TESTED FOR GROUNDS AND SHORTS BY MEANS OF A MEGGER INSULATION RESISTANCE INSTRUMENT APPLYING A VOLTAGE OF NOT LESS THAN 500V D.C. UPON CIRCUIT UNDER TEST.
29. CABLES FOR ESSENTIAL CIRCUITS SUCH AS EMERGENCY LIGHTING CIRCUITS AND FIRE FIGHTING EQUIPMENT CIRCUITS ETC SHALL NOT BE DRAWN INTO THE SAME CONDUIT, DUCT OR TRUNKING INTENDED FOR NORMAL CIRCUITS AS PER IEE 364 WIRING REGULATION, ALL CABLES AND WIRES FOR LIFE SAFETY AND ESSENTIAL CIRCUIT SHALL BE OF 24HS FIRE RATED.
30. FOR SINGLE PHASE SUPPLY, CIRCUITS OF DIFFERENT PHASES SHALL NOT SHARE THE SAME CONDUIT.
31. ALL SHUNT TRIP RELEASES OF ACB'S IN THE MAIN ELECTRICAL SWITCHBOARD SHALL BE RATED AT 30V DC, A BATTERY SUPPLY OF SUFFICIENT CAPACITY SHALL BE PROVIDED FOR THE TRIPPING OF ACBS, CAPACITY OF BATTERY SHALL BE SUBMITTED FOR THE CONSULTANT'S APPROVAL, PRIOR TO INSTALLATION.
32. ALL EARTH TESTS SHALL BE CARRIED OUT WITH A 1000V MEGGER TEST INSTRUMENT AND IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF DEWA WIRING REGULATIONS.
33. THE LIGHTNING PROTECTION SYSTEM SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST DEWA REGULATIONS PRACTICE AND BS-EN 62305 AND INSTALLED TO THE SATISFACTION OF THE CONSULTANT.
34. THE ELECTRICAL CONTRACTOR SHALL LUSE WITH EIV SYSTEMS CONTRACTOR VIA THE MAIN CONTRACTOR TO ENSURE THAT POWER SUPPLIES FOR ALL EQUIPMENT ARE ADEQUATELY PROVIDED TO SUIT THE SYSTEM REQUIREMENTS.
35. EQUIPOTENTIAL BONDING SHALL BE PROVIDED FOR ALL TOILETS.
36. ALL POWER OUTLET, LIGHTING, ETC., LOCATIONS SHOWN ARE APPROXIMATE ONLY AND THE ELECTRICAL SUB-CONTRACTOR MUST CO-ORDINATE WITH LUX AND OR THE INTERIOR DESIGNER, AS WELL AS EQUIPMENT SUPPLIERS.

37. THE DISTRIBUTION AND SIZE OF THE TRUNKING/CABLE TRAY SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY, THE EXACT LOCATIONS MUST BE CO-ORDINATED ON SITE BEFORE INSTALLATION, FULLY CO-ORDINATED SHOP DRAWINGS MUST BE SUBMITTED TO THE CONSULTANT FOR APPROVAL BEFORE COMMENCEMENT OF WORK.
38. ALL ISOLATORS INSIDE MECHANICAL PLANTROOMS AND OTHER POTENTIALLY WET LOCATIONS SHALL BE PROVIDED WITH WEATHERPROOF ENCLOSURE (IP65).
39. CONTRACTOR TO CROSS REFER TO FIRE ALARM CAUSE AND EFFECT MATRY, ALL DEVICES, INTERFAC, TERMINAL BLOCKS, WIRING, ETC, NECESSARY FOR SATISFACTORY OPERATION OF FIRE ALARM AND FIRE STRATEGY SHALL BE DEEM INCLUDED IN THIS CONTRACT.

ELECTRICAL BOARD AND COMPONENTS

1. ALL MCB'S INSTALLED SHALL COMPLETE WITH ADJUSTABLE THERMAL AND MAGNETIC SETTING OF APPROPRIATE RANGE.
2. ALL MCBs, USED FOR PROTECTION OF LIGHTING AND SMALL POWER SHALL OF TYPE C CHARACTERISTIC, ALL MCCB/ACB's USED FOR PROTECTION OF MOTOR LOADS SHALL BE OF TYPE D CHARACTERISTIC, HOWEVER, MOTOR PROTECTION CONFORMANCE STUDY SHALL BE SUBMITTED BY THE CONTRACTOR FOR ENGINEER'S/CONSULTANT'S REVIEW AND APPROVAL.
3. MCCB's/MCB's IN THE MAIN SWITCHBOARDS, SUB-SWITCHBOARDS, DISTRIBUTION BOARDS SHOWN HEREIN AND OTHER DRAWINGS PROTECTING MOTOR CIRCUITS FOR PUMPS, FANS, AHU's, ETC, SHALL BE OF THE TYPE SUITABLE FOR MOTOR PROTECTION INCORPORATING OVERLOAD AND SHORT CIRCUIT PROTECTIVE DEVICES (ALSO EARTH FAULT PROTECTION WHERE SHOWN IN THE DRAWINGS) AND THEY SHALL BE SO SELECTED THAT THEY ARE ABLE TO COORDINATE WITH BOTH THE UPSTREAM AND DOWNSTREAM PROTECTION DEVICES.
4. ALL PROTECTION CIR SHALL BE OF CLASS COMPLYING TO DEWA REQUIREMENT OR BETTER.
5. ALL METERING CIR SHALL BE OF CLASS COMPLYING TO DEWA REQUIREMENT OR BETTER.
6. BUSBAR MARKINGS, ARRANGEMENTS, CONNECTIONS AND GRADE OF COPPER SHALL COMPLY AS APPROPRIATE WITH BS:159, 1453 AND 1977.
7. ALL ELECTRICAL BOARDS BUSBARS SHALL BE OF HARD DRAWN TINNED COPPER AND SHALL HAVE A CURRENT DENSITY OF NOT LESS THAN 1.55A/SQ.MM, WHEN MORE THAN ONE SET OF BUSBARS ARE USED PER PHASE, APPROPRIATE DEBATING FACTOR SHALL APPLY.
8. ALL NON-CURRENT CARRYING METALLIC PARTS OF THE DISTRIBUTION BOARDS SHALL BE BONDED TO SYSTEM EARTH.
9. THERE SHALL BE A COMMON EARTH BAR IN EACH ELECTRICAL BOARD.
10. THE NEUTRAL LINKS AND EARTH BARS IN THE ELECTRICAL BOARDS SHALL BE LOCATED AT AN EASILY ACCESSIBLE POSITION AND SHALL BE KEPT CLEAR OF ANY OBSTRUCTIONS.
11. NEUTRAL AND EARTH BARS SHALL HAVE SUFFICIENT NUMBER OF WAYS TO MATCH THE NUMBER OF SUB-CIRCUITS WITH SPARES.
12. THE MINIMUM CLEARANCE AROUND THE NEUTRAL LINKS SHALL BE 50mm.
13. THE ELECTRICAL SUB-CONTRACTOR IS REQUIRED TO CARRY OUT HIS OWN FAULT LEVEL CALCULATIONS BASED ON THE CHARACTERISTICS OF THE EQUIPMENT OFFERED AND THE ACTUAL CABLES AND THEREAFTER ROUTING (SUBJECT TO THE SUPERVISING CONSULTANT APPROVAL) OF THE CABLES AND THEREAFTER SELECT THE MOST APPROPRIATE RATING CAPACITY OF SUB-SWITCHBOARDS, BUSBAR TRUNKING AND DISTRIBUTION BOARDS TO MEET THE PROSPECTIVE FAULT LEVELS, ALL COSTS IN CONNECTION THEREWITH SHALL BE DEEMED TO BE INCLUDED IN THE SUB-CONTRACT SUM, THE ELECTRICAL SUB-CONTRACTOR SHALL SUBMIT DETAILED CALCULATION & SELECTION FOR ELECTRICAL CONSULTANT'S APPROVAL.
14. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES THAT ARE EXPOSED TO WEATHER SHALL BE OF WEATHERPROOF TYPE TO IP65, UNLESS OTHERWISE STATED.
15. IDMT, OVERCURRENT AND EARTH FAULT RELAYS SPECIFIED SHALL BE COMPLETE WITH HIGH SET ELEMENT.
16. ALL OVERCURRENT EARTH FAULT RELAYS AND EARTH LEAKAGE RELAYS SHALL BE TESTED ON SITE BY ELECTRICAL LICENSED TESTER AND ALL COSTS CONNECTED THEREWITH SHALL BE DEEM TO BE INCLUDED IN THE SUB-CONTRACT SUM.
17. THE ELECTRICAL SUB-CONTRACTOR IS REQUIRED TO SUBMIT DETAILS OF FINAL ARRANGEMENT AND DIMENSIONAL LAYOUT OF ALL THE ITEMS OF EQUIPMENT IN RESPECTIVE ROOMS TO SUIT SITE CONDITIONS, ETC FOR REVIEW BY THE CONSULTANT BEFORE COMMENCEMENT OF INSTALLATION.
18. ALL MOTOR SHALL BE PROVIDED WITH EMERGENCY STOP BUTON RIGHT NEXT TO THE EQUIPMENT.
19. UNLESS OTHERWISE INDICATED, THE MCCB's/MCB's INSTALLED FOR ANY MAIN SWITCHBOARDS, SUB-BOARDS AND DISTRIBUTION BOARDS SHALL HAVE THE FOLLOWING MINIMUM BREAKING CAPACITY :
MAIN SWITCHBOARD : 50KA RMS, 1 SEC.
SUB BOARDS : 35KA RMS, 1 SEC.
DISTRIBUTION BOARDS : 10KA RMS, 1 SEC.

CO-ORDINATION AND INSTALLATION

1. THE ELECTRICAL CONTRACTOR SHALL OBTAIN APPROVAL FROM STRUCTURAL ENGINEERS FOR PENETRATION THROUGH R.C. BEAMS AND FLOOR SLABS PRIOR TO CONSTRUCTION.
 2. ALL CONDUITS LAYOUT AND INSTALLATION METHODS SHALL BE DETAILED IN ALL ROOMS AS MUCH AS POSSIBLE.
 3. ALL WATERSUPPLY CABLES TO BE USED AND INSTALLATION METHOD SHALL COMPLY WITH THE TECHNICAL SPECIFICATION, STANDARDS, CODE OF PRACTICE AND AUTHORITY REQUIREMENT.
 4. THE ELECTRICAL CONTRACTOR IS REQUIRED TO SUBMIT DETAILS OF FINAL ARRANGEMENT AND DIMENSIONAL LAYOUT OF ALL ITEMS OF EQUIPMENT AND ACCESSORIES TO SUIT SITE CONDITIONS, ETC FOR REVIEW BY THE SUPERVISING CONSULTANT BEFORE COMMENCEMENT OF INSTALLATION.
 5. ALL ELECTRICAL AND EIV DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE LATEST ARCHITECTURAL DRAWINGS, INTERIOR DESIGN DRAWINGS, OTHER SERVICES DRAWINGS AND SPECIFICATIONS.
- LIGHTNING PROTECTION SYSTEM**
1. LIGHTNING PROTECTION SYSTEM SHALL COMPLY WITH EC CODE OF BS EN 62305.
 2. THE POSITIONS OF THE ELECTRODES FOR LIGHTNING PROTECTION SYSTEM ARE APPROXIMATE ONLY, THE EXACT LOCATIONS ON SITE SHALL BE DETERMINED SUCH THAT THE SPECIFIED REQUIREMENTS OF EARTHING SYSTEM ARE COMPLIED.
 3. ELECTRICAL CONTRACTOR SHALL LUSE WITH MAIN CONTRACTOR FOR INSTALLATION OF EARTH ELECTRODE PITS, WATER PROOFING FOR ELECTRODES THROUGH R.C SLAB SHALL BE PROVIDED UNDER HIS CONTROL.
 4. ALL PENETRATIONS THROUGH ROOF TO BE MADE WATER TIGHT AFTER INSTALLATION OF DOWN CONDUCTOR CABLES, ETC.

TENDER ISSUE

EARTHING SYSTEM

1. EARTH RESISTANCE WILL BE TESTED UPON COMPLETION OF EACH EARTHING POINT INSTALLATION BEFORE COMMENCEMENT OF THE EARTH POINT.
2. EARTH RESISTIVITY TEST SHALL BE CARRIED AT EACH EARTHING POINT.
3. ALL TIE/CABLES/CABLE CONTACT SURFACE SHALL BE HEAVILY TINED PRIOR TO CONNECTION.
4. PRELIMINARY MEASURES SHALL BE TAKEN SO AS NOT TO OVER EXHAUSTE THE EARTHING PIT.
5. PREPARATORY CAD WED CONNECTION SHALL BE EMPLOYED FOR CONNECTING EARTH CABLE TO EARTHING POINT STRUCTURE IN ACCORDANCE TO THE INSTRUCTION OF THE SUPPLIER.
6. IMMEDIATELY UPON COMPLETION OF EACH GROUP OF EARTH POINT INSTALLATION, TEST SHALL BE CARRIED OUT TO ESTABLISH THE EARTH RESISTANCE. THE TEST RESULTS SHALL BE SUBMITTED TO CONSULTANT FOR APPROVAL.
7. AFTER COMPLETION OF THE EARTHING INSTALLATION AND SATISFACTORY TESTING, EACH OF THE EARTHING PIT SHALL BE SUITABLY GROUTED TO SUPERVISING CONSULTANT REQUIREMENT TO PREVENT INFILTRATION OF GROUND WATER. GROUTING MATERIALS USED SHALL BE SUBJECT TO CONSULTANT'S APPROVAL.

CABLES AND ANGLIARY PRODUCTS

1. ALL CABLES / WIRES FOR FINAL SUB-CIRCUIT WIRINGS SHALL BE PVC, MULTI-STRAND COPPER CONDUCTORS, NO PVC CONDUIT/TRUNKING SHALL BE ALLOWED FOR THE WHOLE ELECTRICAL INSTALLATION UNLESS OTHERWISE STATED, IN GENERAL, ALL WIRING SHALL BE DONE WITHIN CONDUIT EMBEDDED IN SLAB FOR ALL SERVICES. EXPOSED CONDUIT/ WIRE SHALL NOT BE ACCEPTED.
3. SEPARATE CONDUIT/MULTI-GANG SWITCH BOX SHALL BE PROVIDED FOR FINAL SUB-CIRCUIT OF DIFFERENT PHASES, REGULATION FOR THE INSTALLATIONS.
4. ALL EXTERNAL/LANDSCAPE LIGHTING POINTS SHALL BE PROVIDED WITH CABLES WITH ADDITIONAL LENGTH OF 5m.
5. SPACE FACTOR OF CONDUIT & TRUNKING SHALL COMPLY WITH DEWA REGULATION OF PRACTICE FOR WIRING OF ELECTRICAL EQUIPMENT OF BUILDINGS.
6. ALL SUB-JUNG CIRCUITS TO BE COMPLETE WITH CIRCUIT PROTECTIVE CONDUCTOR (CPC) COMPLYING TO DEWA REGULATION FOR THE INSTALLATIONS.
7. NEUTRAL & EARTH CABLES FOR EACH DIFFERENT CIRCUIT SHALL BE BROUGHT BACK TO THE SOURCE PANEL AND SHALL NOT BE LOOPE TOGETHER OUTSIDE THE PANEL.
8. ALL ELECTRICAL CONDUITS AND CONDUIT BOXES TO CAST WITHIN R.C. SLAB AT WET AREAS MUST HAVE TIGHTLY SEALED AND WATERPROOF JOINTS.
9. ALL UNDERGROUND JUNCTION BOXES SHALL BE OF G.I. TYPE, KNOCK OUT BOXES SHALL NOT BE USED AS UNDERLOOR JUNCTION BOXES.
10. THE SIZES OF CABLE TRAY/TRUNKING/CONDUIT AS SHOWN IN DRAWINGS ARE APPROXIMATE ONLY, ELECTRICAL SUB-CONTRACTOR IS REQUIRED TO HAVE ALLOWED IN HIS TENDER PRICE FOR ALL NECESSARY ADJUSTMENT TO ACCOMMODATE THE SIZES AND SHALL SUBMIT ALL DETAILED CO-ORDINATED CABLE CONDUIT/TRUNKING/TRAY LAYOUTS TO THE SUPERVISING CONSULTANT FOR REVIEW AND APPROVAL, THE SIZES OF CABLE TRAY/TRUNKING/CONDUIT SHALL BE AS SHOWN IN THE DRAWINGS AND SECTION DRAWINGS TO THE SUPERVISING CONSULTANT FOR CLEARANCE PRIOR TO STARTING WORK ON SITE.
11. ALL UNDERGROUND CABLES CROSSING DRIVEWAYS OR HARDSCAPE AREAS ARE TO BE PROVIDED WITH HEAVY DUTY PVC PIPES, ENCASED IN CONCRETE WITH FULL HAUNCHING.
12. ALL STRAIGHT CONDUIT RUNS EXCEEDING 8 METERS SHALL BE PROVIDED WITH JUNCTION BOX TO FACILITATE EASY WIRE / CABLE PULLING.
14. ALL FEEDER CABLES SHALL BE XLPE / SWU / LSQH FOR NORMAL CIRCUIT AND XLPE / SWU / FR FOR EMERGENCY CIRCUITS.

LUMINAIRES

1. ALL LIGHTING SWITCHES SHALL COMPLY WITH CLOSE STANDARD, KENYA GREEN BUILDING REGULATION AND SHALL BE OF THE APPROVED TYPE.
2. FLUORESCENT LAMP TUBES USED AT PUBLIC AREAS SHALL BE OF COLOUR 83 WARM WHITE AND INSTANT START UNLESS OTHERWISE STATED AND OF LOW LOSS ENERGY SAVING TYPE.
3. ELECTRICAL CONTRACTOR SHALL REFER TO LIGHTING CONSULTANT – FOR FURTHER NOTES AND LEGENDS.
4. ALL EXT LIGHTINGS SHALL BE POSITIONED NOT MORE THAN 2.4m ABOVE FFL TO CENTRE OF FITTING.

POWER OUTLETS

1. SWITCH SOCKET OUTLETS AND SWITCHES MOUNTED SURFACE AT PLANTROOMS, STORES AND SIMILAR AREAS SHALL BE OF WEATHER PROOF TYPE UNLESS OTHERWISE STATED.
2. ALL ELECTRICAL EQUIPMENT & ACCESSORIES THAT ARE EXPOSED OR LESS THAN 2.0M AWAY FROM WET AREA SHALL BE OF WATERPROOF TYPE.
3. COLOUR FOR ALL SWITCHES, SWITCH SOCKET OUTLETS SHALL BE AS PER SUPERVISING CONSULTANT'S / ARCHITECT'S / INTERIOR DESIGNER'S SELECTION.
4. UNLESS OTHERWISE INDICATED, THE MOUNTING HEIGHTS FROM FINISHED FLOOR LEVELS FOR VARIOUS ITEMS OF ELECTRICAL WIRING ACCESSORIES/ EQUIPMENT SHALL BE AS FOLLOWS:
LIGHTING SWITCHES - 1400mm TO CENTRELINE
SWITCH SOCKET OUTLETS - 1000mm TO CENTRELINE
DISTRIBUTION BOARDS - GENERALLY 1800mm TO TOP OF BOARD
WALL/COLUMN LIGHTS - 2500mm TO CENTRELINE
5. THE ELECTRICAL CONTRACTOR SHALL NOTE THAT THE POSITIONS OF ELECTRICAL POINTS, LUMINAIRES, LIGHTING SWITCHES, SWITCH SOCKET OUTLETS ETC. ARE INDICATIVE AND APPROXIMATE AS SHOWN ON DRAWINGS, THE ACTUAL POSITIONS SHALL BE BASED ON THE CONSULTANT'S OR INTERIOR DESIGNER'S DRAWING, THE ELECTRICAL SUB-CONTRACTOR IS DEEMED TO BE RESPONSIBLE FOR THE CO-ORDINATION OF THE ELECTRICAL INSTALLATION WITH THE ARCHITECT AND IN HIS TENDER PRICE FOR ALL NECESSARY SITE ADJUSTMENT TO SUIT THE FINAL POSITIONS.
6. LOCATIONS FOR ELECTRICAL DISTRIBUTION BOARDS SHOWN IN THE PLANS ARE INDICATIVE ONLY, ELECTRICAL SUB-CONTRACTOR SHALL VERIFY ON SITE AND PROPOSE THEIR ACTUAL LOCATIONS ON THE SHOP DRAWING FOR CLEARANCE.
7. ELECTRICAL DISTRIBUTION BOARD SHALL NOT BE MOUNTED MORE THAN 1800mm ABOVE FFL (MEASURED FROM FFL TO TOP OF DISTRIBUTION BOARD).
8. ALL ISOLATOR SHALL BE IP-65, IN METAL CABINET AND PAD-LOCKABLE.
9. FINAL LOCATION AND MOUNTING HEIGHT OF WIRING DEVICES SHALL BE COORDINATED WITH ARCHITECT AND ID CONSULTANT.
10. MOTORIZED DAMPER AND MOTORIZED VALVE WHERE REQUIRED BY MECHANICAL, SHALL BE PROVIDED WITH RESPECTIVE FUSE CONNECTION UNIT TO BE CONNECTED TO RELATED EQUIPMENT LAMP OR AS OTHERWISE SHOWN ON PLAN.

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

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AQUACULTURE & THE BLUE
ECONOMY

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DRAWING TITLE:
ELECTRICAL DRAWINGS
NOTES

Dwg. No. **06- 003E- 002**










































Scale: NTS

Drawn by: Check'd By:

Project no.: Date:

06 24.11.2023

SCHEDULE OF SYMBOLS AND LIGHTING LUMINAIRES

	10A 1 GANG 1 WAY white moulded switch plates		1200mm 12W LED Mirror Front Light, surface mounted, 4000K Bathroom Mirror Light
	10 2 GANG 1 WAY white moulded switch plates		High Quality Ultra Thin 12W Led Panel 300X300Mm Square Panel Light Indoor Lighting For Bathroom Type 2
	10A 3 GANG 1 WAY white moulded switch plates		Type 'N' 12W LED 2D fixture for installation in stairwells and corridors
	10A 3 GANG 1 WAY white moulded switch plates		Type Maintained LED fixture for Emergency installation with 3 - hour autonomy
	10A 1 GANG 2 WAY white moulded switch plates		Type '4C' 34W 1200mm High performance LED IP65, dust and moisture resistant luminaire
	10A 2 GANG 2 WAY white moulded switch plates		Type '4' 40W 1200mmX300mm High performance dust and moisture resistant luminaire
	Outlet for 13A twin switched socket outlet complete with concealed conduit, box wiring in 3 x 2.5 mm² SC-PVC-CU cables and 13A twin switched socket outlet plate for raw power		Type 'C' 12W super efficient LED downlighter
	Outlet for 13A twin switched socket outlet complete with concealed conduit, box wiring in 3 x 2.5 mm² SC-PVC-CU cables and 13A twin switched socket outlet plate for clean power		Type 'M' 50W Solar Floodlight for security lighting, mounted on building's walls
	TPN Distribution Board Complete with 100A TP Integral Isolator and all accessories including lockable cover with the required MCB's and Blanking plates		600x600mm, 36W, super efficient Surface LED modular luminaires with curved diffuser
	SPN Consumer Unit complete with 100A SPN integral Isolator and all accessories including lockable cover with the required MCB's and Blanking plates		Type 'X' Bulkhead wall mounted light for the lift shaft
	Outlet for RJ45 face plate, complete with concealed HG PVC conduit, square PVC box, draw wire and blanking plate		8W maintained LED Exit Emergency Light. Minimum 3-hour autonomy.
	Outlet for Television coaxial cable outlet point, complete with concealed HG PVC conduit, square PVC box, draw wire and TV outlet point		PIR Motion Sensor
	Outlet for cooker control unit comprising wiring in 3x6.0mm² SC-PVC CU cables, twin box Dia. 25mm socket with neon lamp		25mm x 3mm tinned annealed copper tape for both roof & down conductors
	Outlet for 15A round pin socket outlet complete with concealed conduit, box wiring in 3 x 4 mm² SC-PVC-CU cables and all accessories including 15A round pin socket outlet plate		15mm multiple point copper air terminal complete with base
	Extra Low Voltage manhole, HG PVC conduit link, and all accessories including 45A DP cooker control unit with neon lamp, and 13A Integral Power manhole		Type 'F2' 1500W High Volume Low Speed (HVLS) 5 blade ceiling fan for auditorium. Blade size: 12 feet; Fan Speed: 50RPM; Noise Level: 50DB
	Outlet point for instant water heaters, AC, Fans and under- sink water heater comprising 20mm diameter conduit, wiring in 3 x 4.0 mm² SC-PVC-CU cables and all accessories including 20A DP switch with neon light		Type 'F1' 49W 3 Blade Basic Ceiling Sweep Fan. Sweep: 1200mm; Fan Speed: 350RPM
	400mm Wide Cable Ladder		IP 67- Water & Dust Resistant, 4MP, Excellent low- light performance, 2/3 colourful imaging, Efficient Compression Technology Bullet CCTV Camera
	400mm Wide Cable Tray for Data		IP 67- Water & Dust Resistant, 4MP, Excellent low- light performance, 2/3 colourful imaging, Efficient Compression Technology DOME CCTV Camera
	400mm Wide Cable Tray for Power		
	Addressable Heat Detector		Addressable Fire Alarm Control Panel
	Addressable Smoke Detector		Addressable Push Button, Electric Sounder & Beacon



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AQUACULTURE & THE BLUE
ECONOMY

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DRAWING TITLE:

SCHEDULE OF SYMBOLS
AND LIGHTING
LUMINAIRES

Dwg. No. **06- 003E- 003**

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DRAWING TITLE:

GROUND FLOOR LIGHTING
LAYOUT

Dwg. No. **06- 003E- 004**

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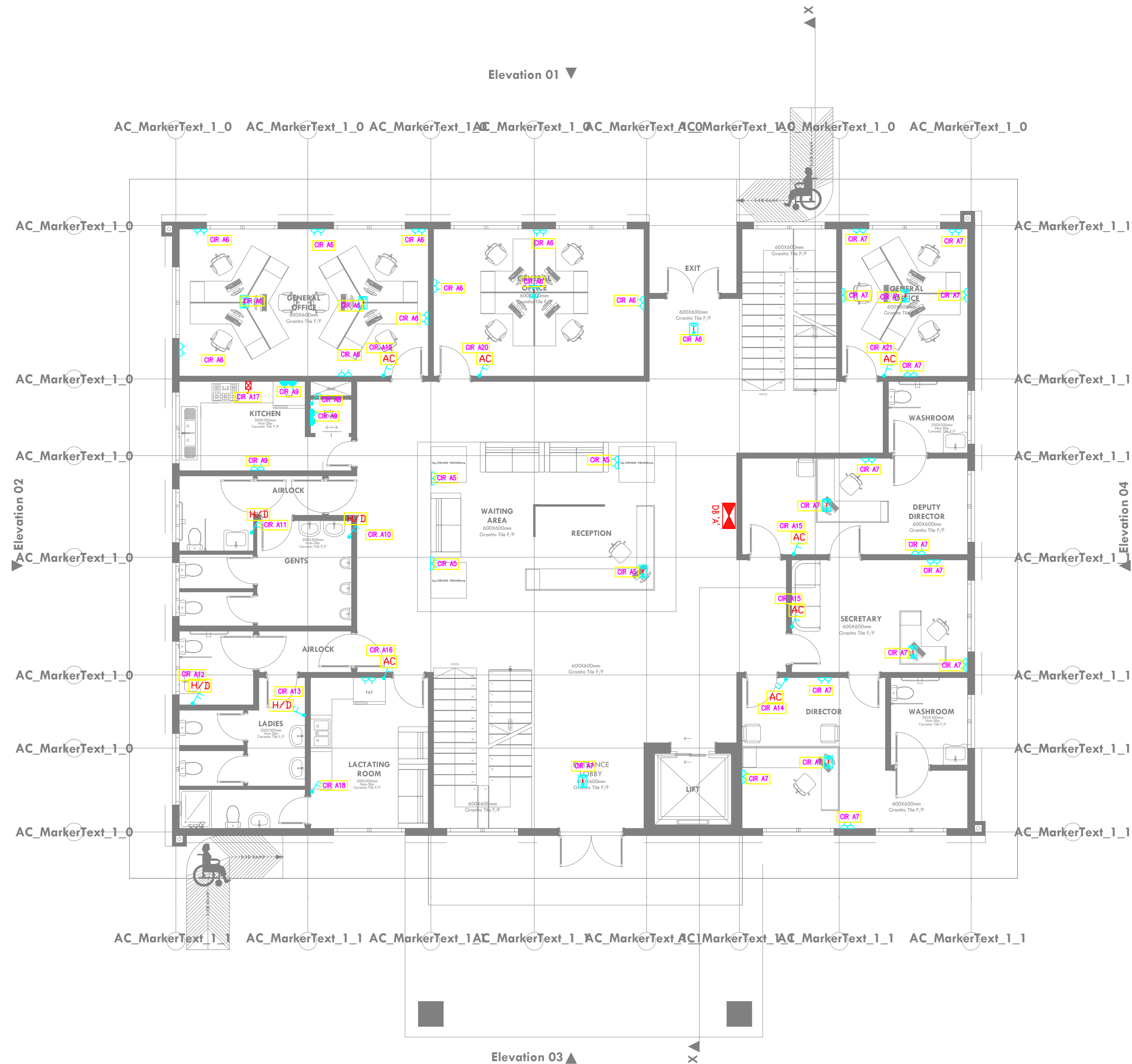
DRAWING TITLE:
GROUND FLOOR POWER
LAYOUT

Dwg. No.	06- 003E- 005
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DRAWING TITLE:

GROUND FLOOR FIRE ALARM LAYOUT

Dwg. No.	06- 003E- 006		
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DRAWING TITLE:

GROUND FLOOR CCTV
LAYOUT

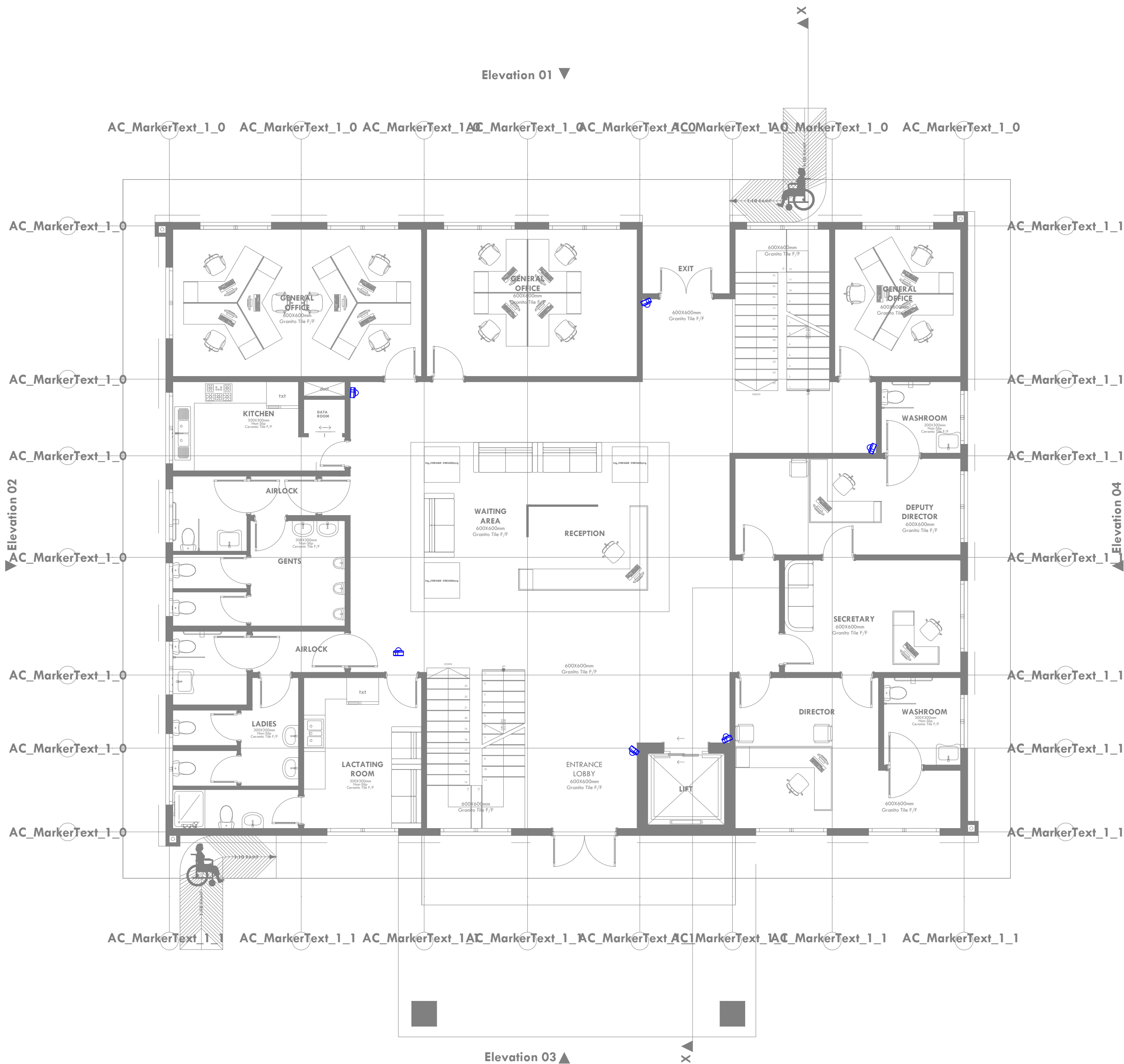
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GROUND FLOOR FANS
LAYOUT

Dwg. No. 06- 003E- 008

Scale: NTS

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Project no.: Date: 24.11.2023





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

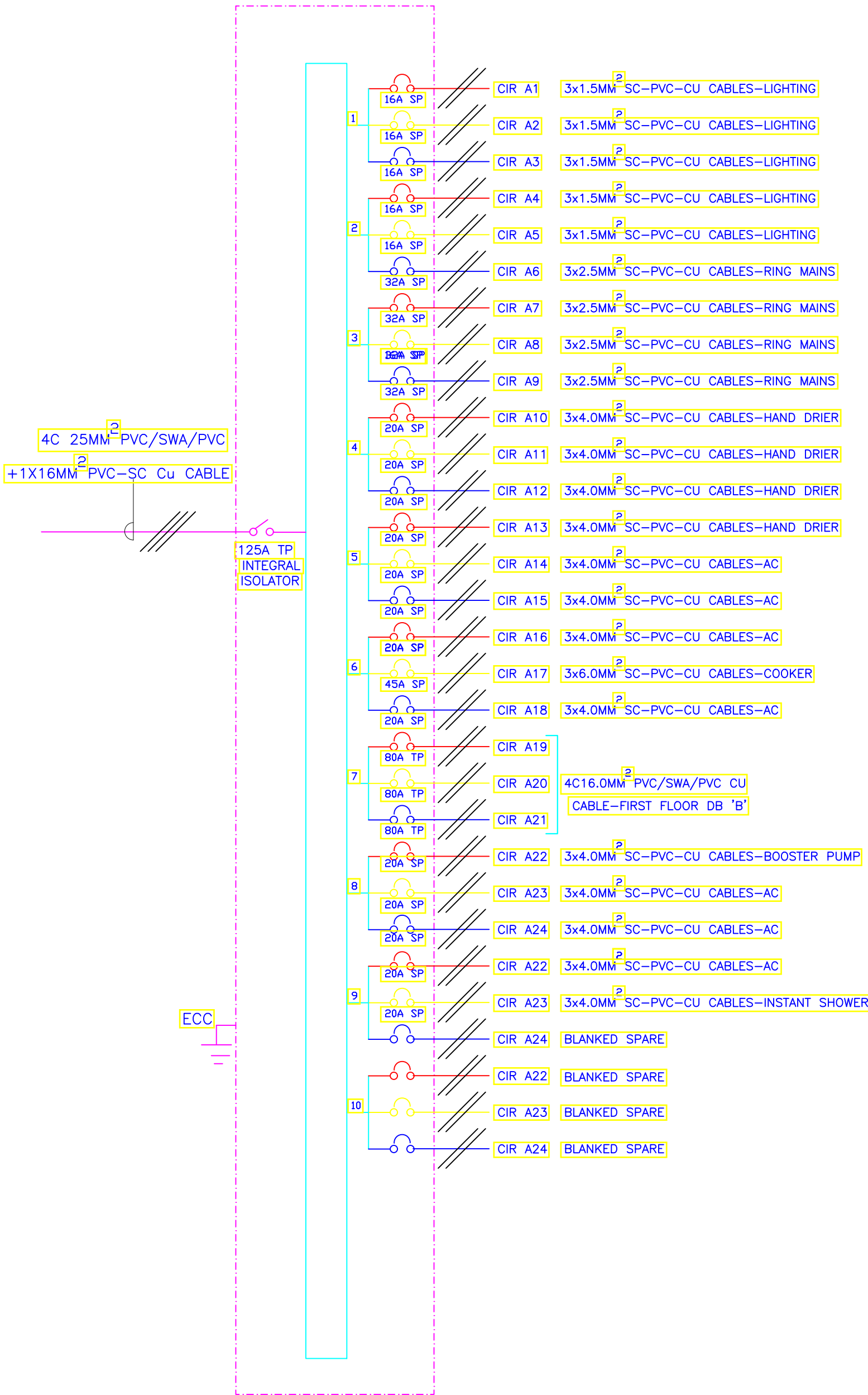
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DRAWING TITLE:

**GROUND FLOOR
SCHEMATICS**

Dwg. No.	06- 003E- 009		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
06	24.11.2023		



10- WAY 125A TPN DISTRIBUTION BOARD 'A' FOR
RAW POWER DISTRIBUTION ON GROUND FLOOR

Elevation 01 ▼

TENDER ISSUE

▼ Elevation 02

▲ Elevation 04

Elevation 03 ▲

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

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Sign: _____

DRAWING TITLE:

FIRST FLOOR LIGHTING
LAYOUT

Dwg. No. 06- 003E- 010

Scale: NTS

Drawn by _____ Chk'd By _____

Project no.: _____ Date: _____

06 24.11.2023

Elevation 01 ▼

TENDER ISSUE

▼ Elevation 02

▲ Elevation 04

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
FIRST FLOOR POWER
LAYOUT

Dwg. No. 06- 003E- 011

Scale: NTS

Drawn by Chek'd By

Project no.: 06
Date: 24.11.2023



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

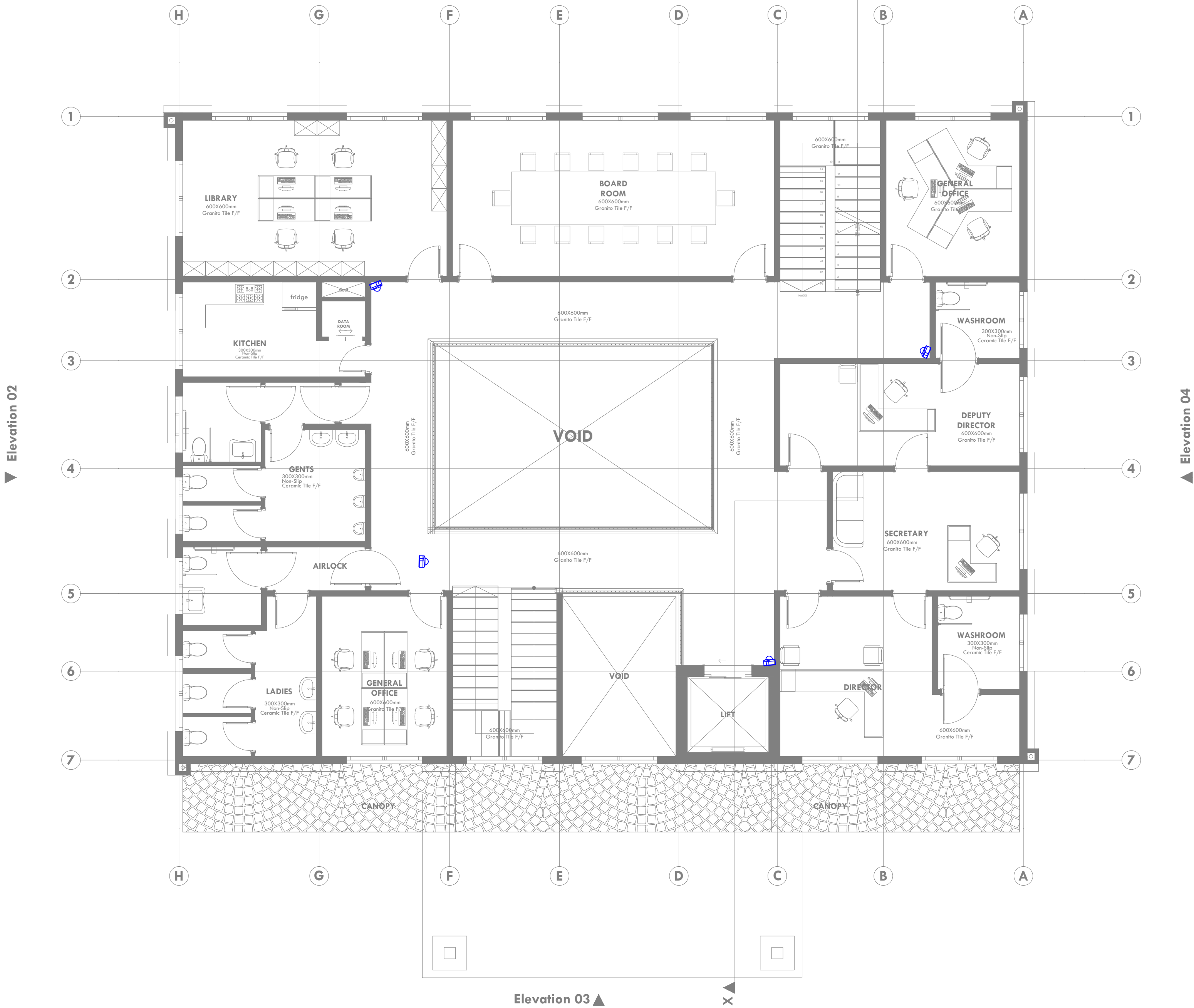
FIRST FLOOR FIRE ALARM
LAYOUT

Dwg. No. 06- 003E- 012

Scale: NTS

Drawn by Chek'd By

Project no.: Date: 24.11.2023



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
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INFRASTRUCTURE- MSAMBWENI

CLIENT:

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AQUACULTURE & THE BLUE
ECONOMY

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DRAWING TITLE:

FIRST FLOOR CCTV LAYOUT

Dwg. No. 06- 003E- 013

Scale: NTS

Drawn by Chek'd By

Project no.: Date:

06 24.11.2023



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

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CLIENT:

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ECONOMY

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DRAWING TITLE:

FIRST FLOOR FANS LAYOUT

Dwg. No. 06- 003E- 014

Scale: NTS

Drawn by Chek'd By

Project no.: 06 Date: 24.11.2023

Elevation 02

Elevation 04





8- WAY 100A TPN DISTRIBUTION BOARD 'B' FOR
RAW POWER DISTRIBUTION ON FIRST FLOOR



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
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CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

FIRST FLOOR SCHEMATICS

Dwg. No.	06- 003E- 015
Scale:	NTS
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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:
SECOND FLOOR
ELECTRICAL

Dwg. No. **06-003E-016**

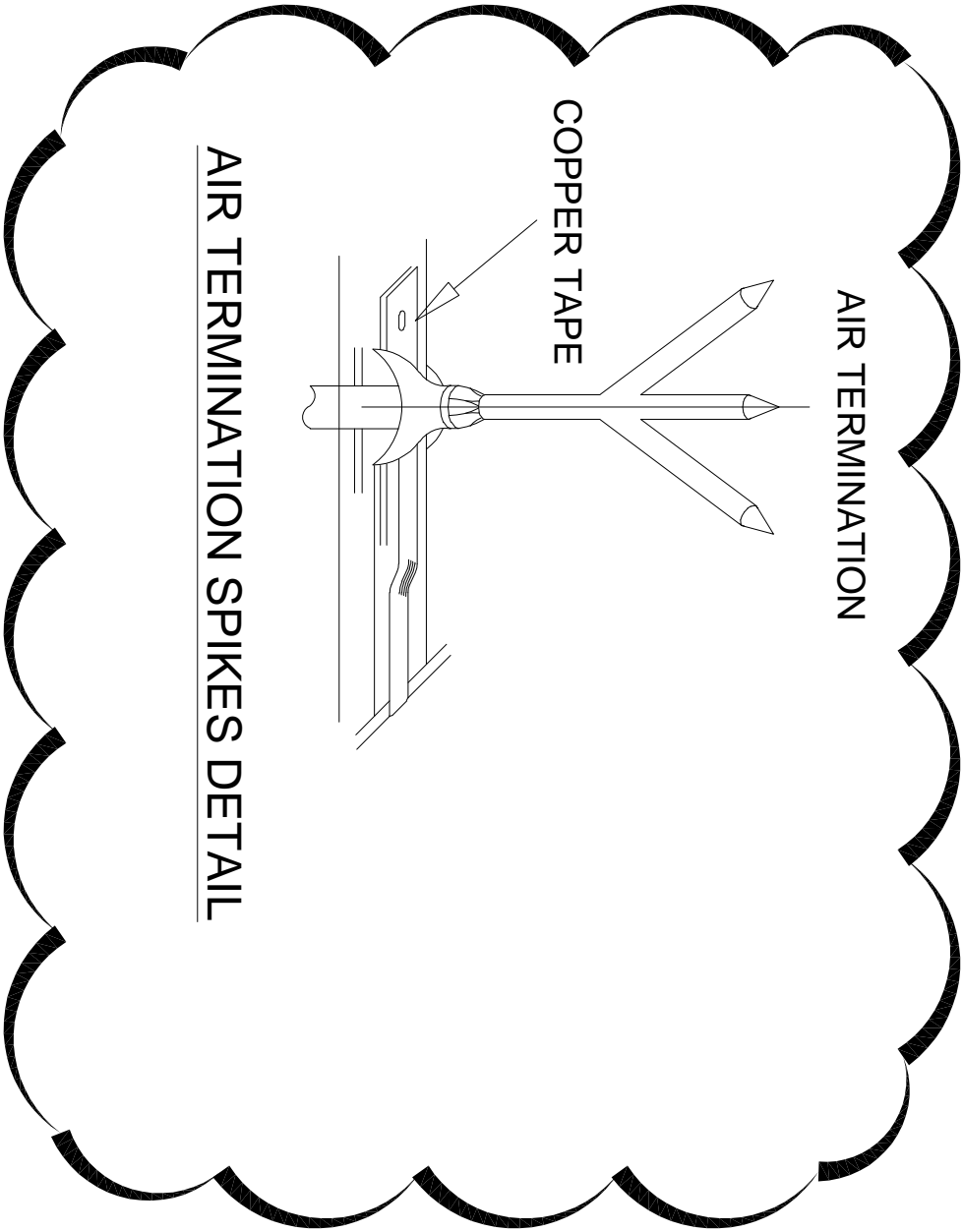
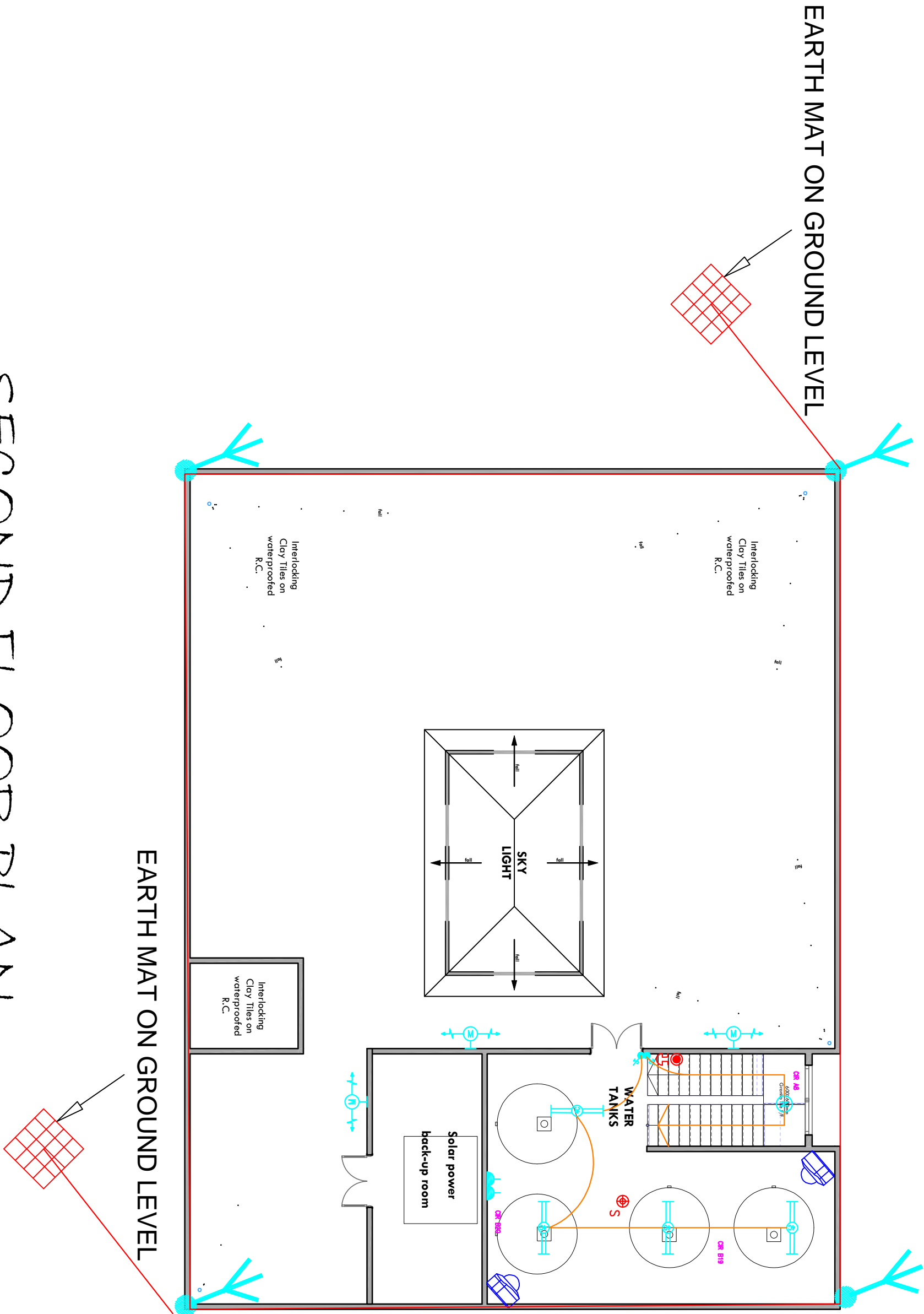
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Drawn by _____
Checked By _____

Project no.: _____
Date: _____

06 24.11.2023

SECOND FLOOR PLAN
ELECTRICAL LAYOUT





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
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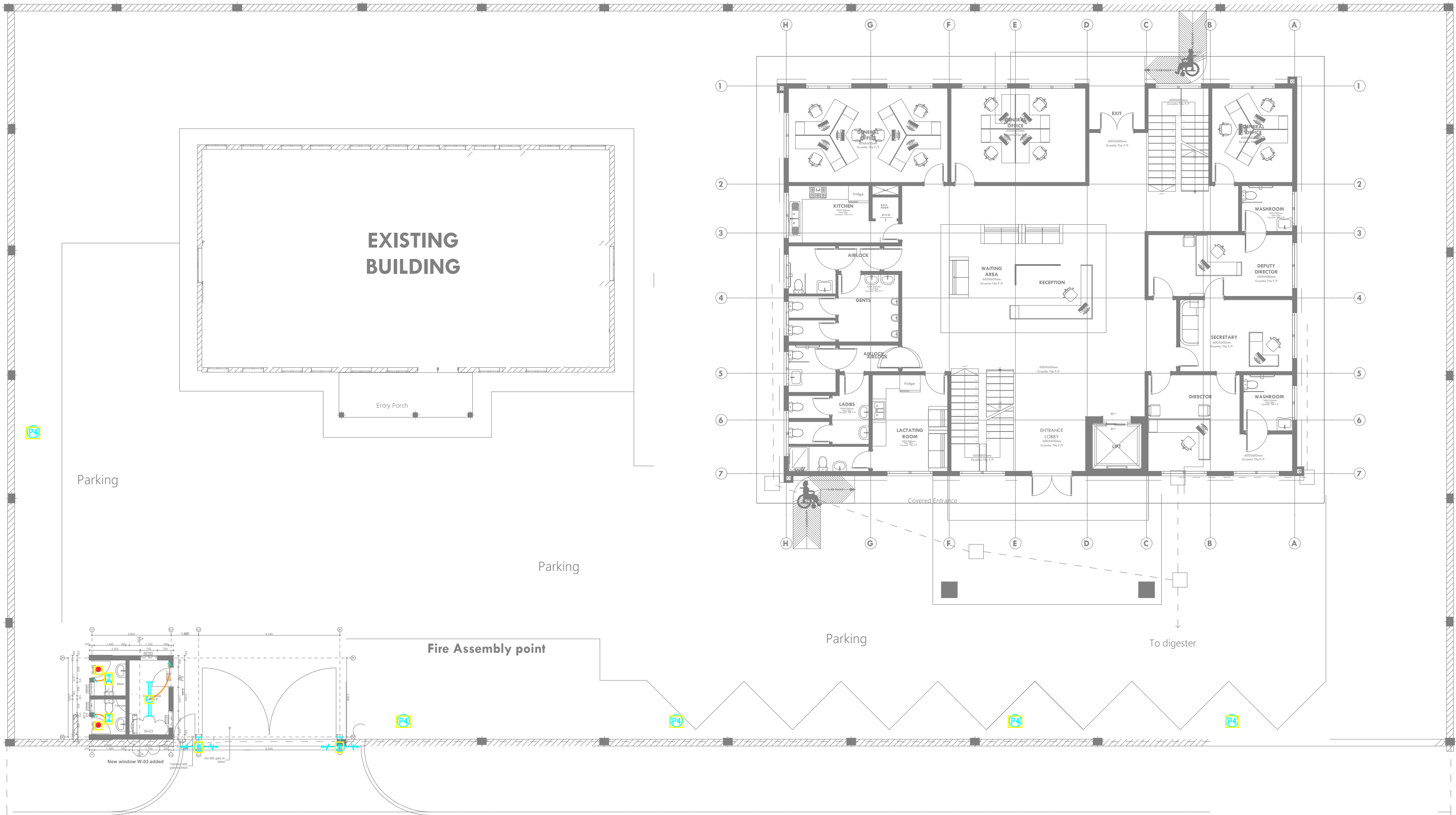
STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
SITE PLAN LIGHTING
LAYOUT

Dwg. No.	06- 003E- 017
Scale:	NTS
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REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

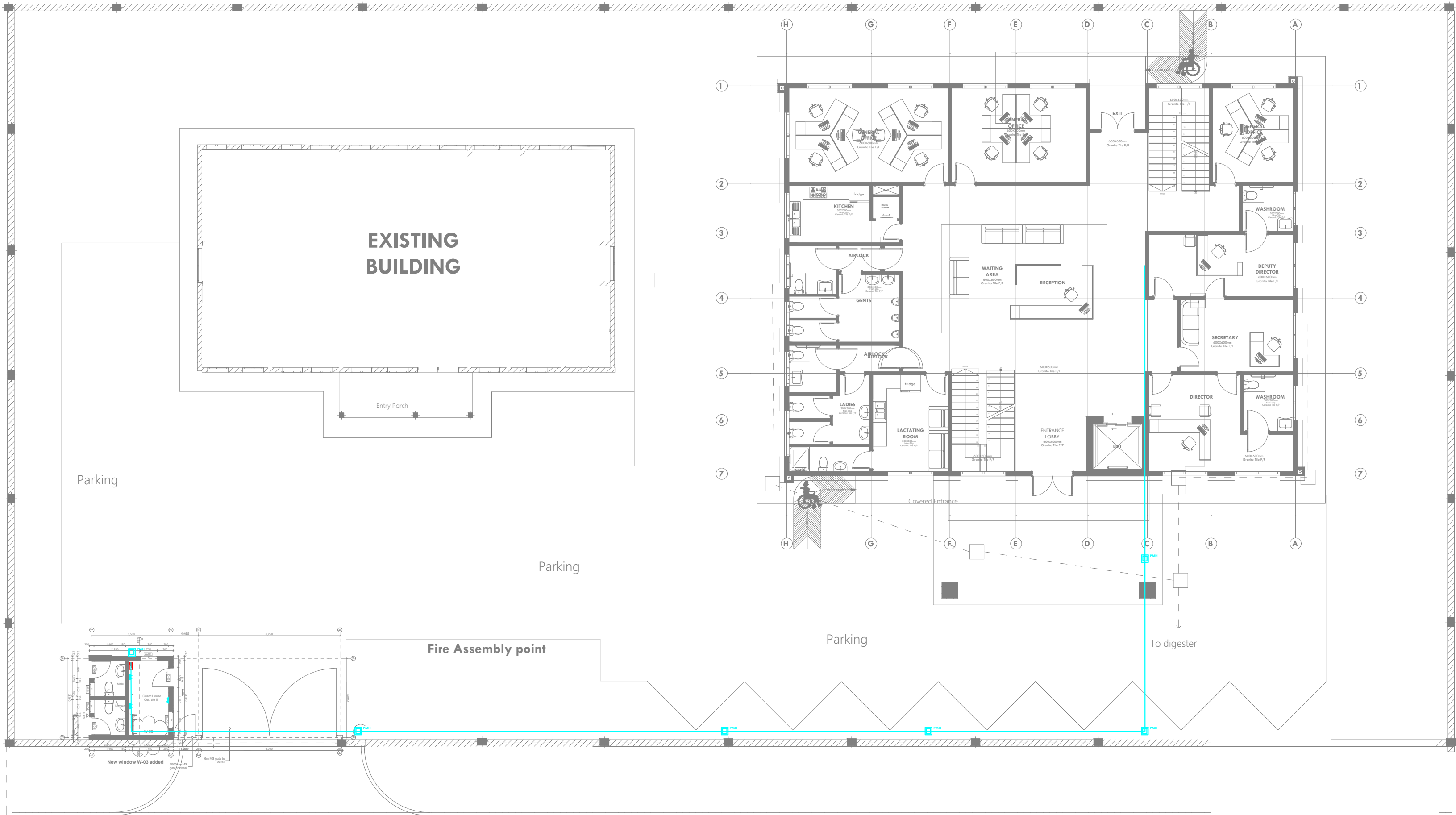
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DRAWING TITLE:

SITE PLAN POWER LAYOUT

Dwg. No.	06- 003E- 018
Scale:	NTS
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Project no.:	Date:
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REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

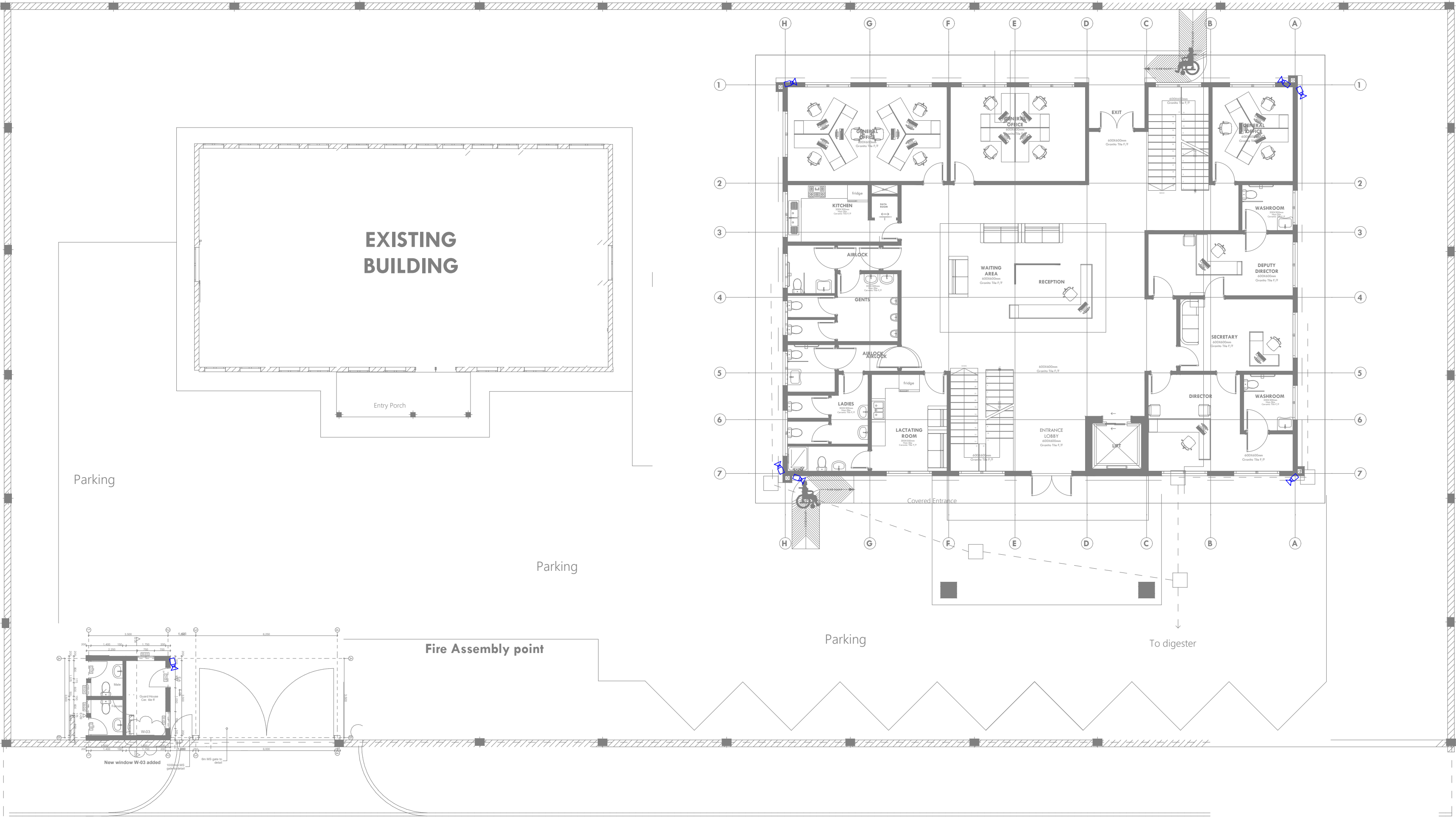
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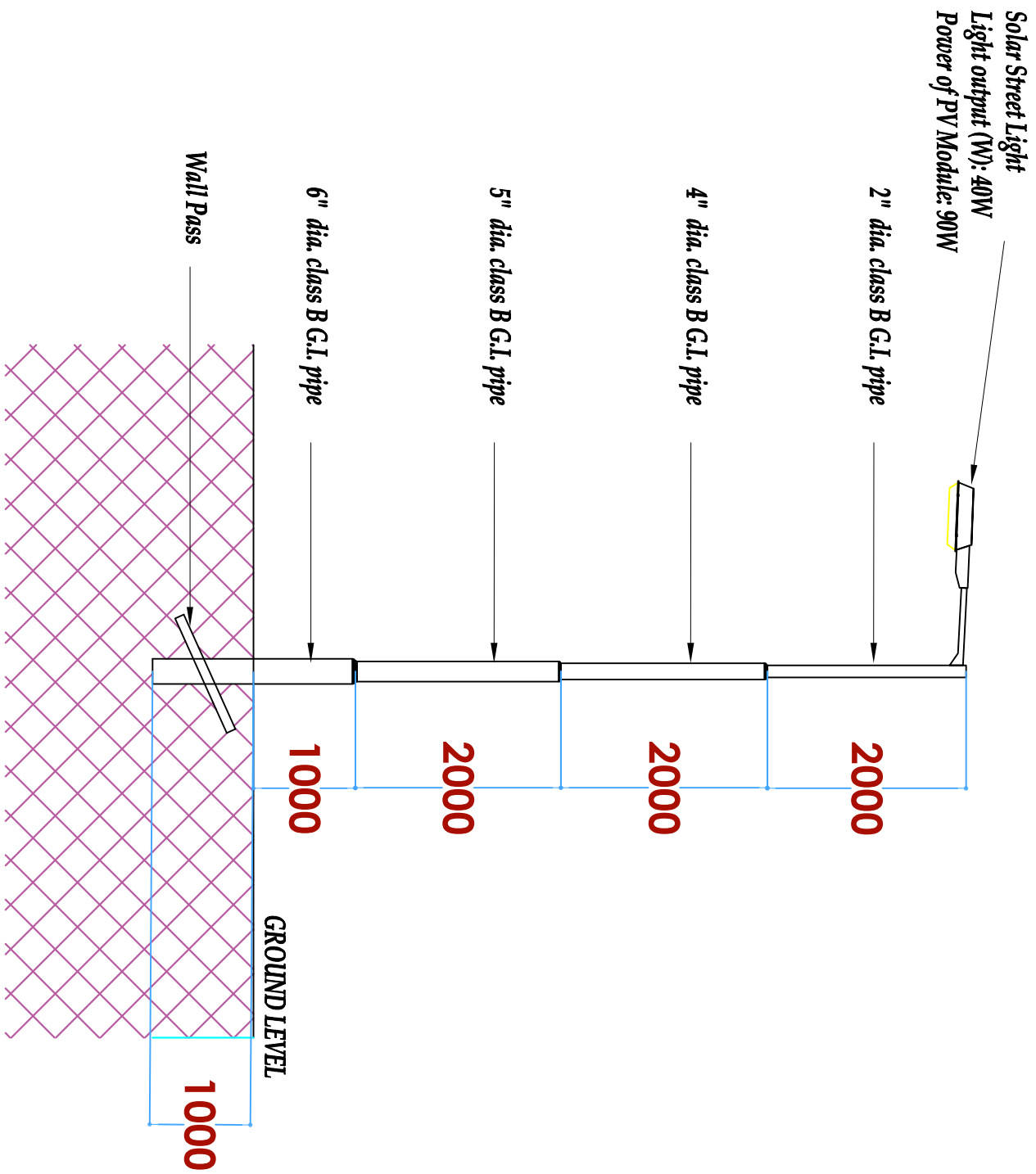
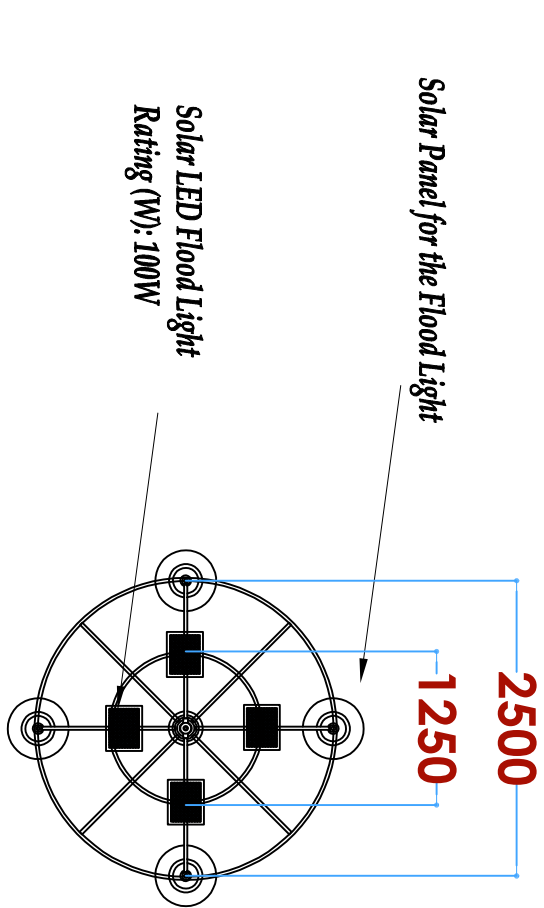
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DRAWING TITLE:

SITE PLAN CCTV LAYOUT

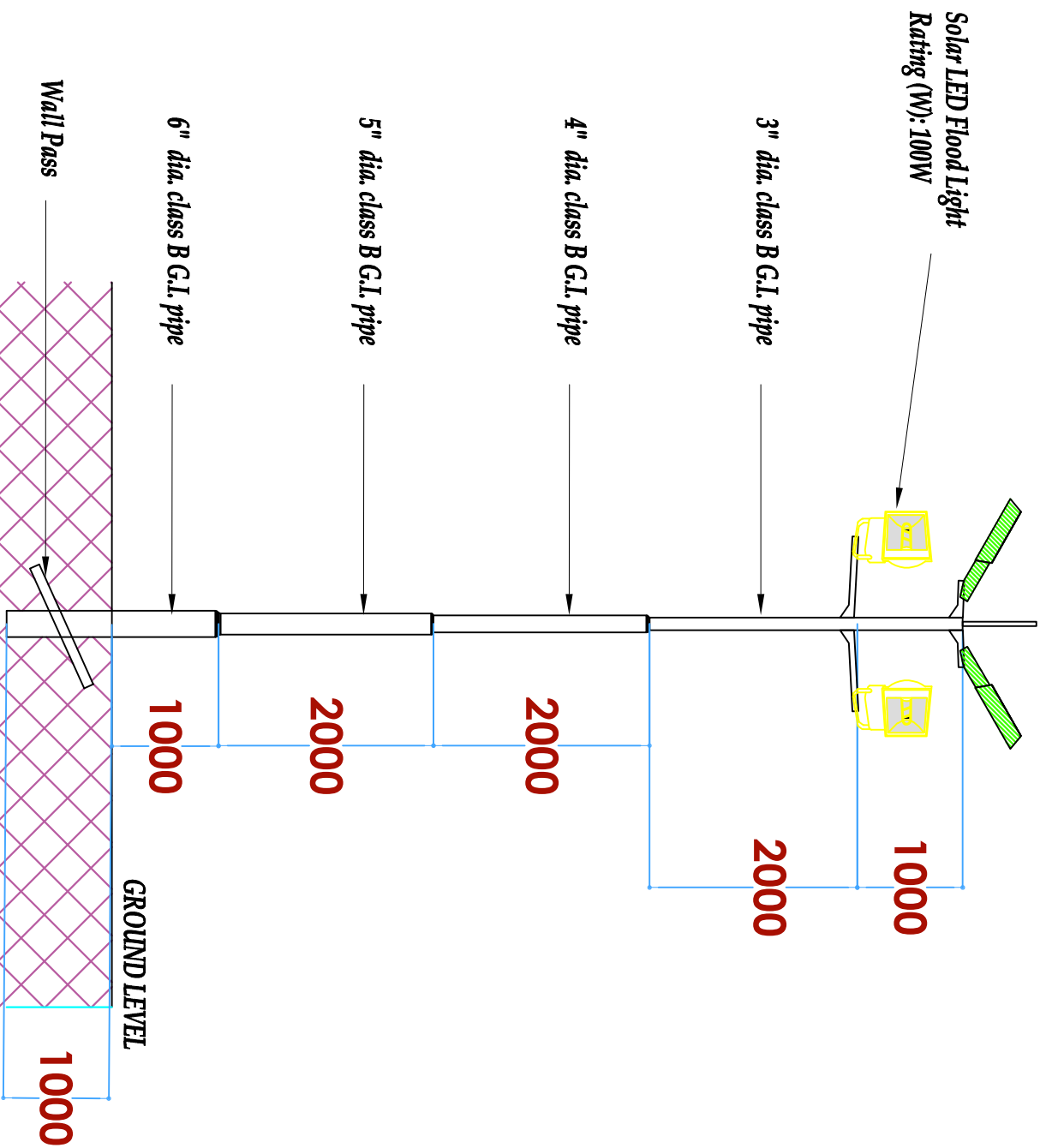
Dwg. No.	06- 003E- 019
Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
06	24.11.2023





STREET LIGHT DETAIL

P4



TYPE M SOLAR FLOOD LIGHT DETAIL



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

STREET LIGHT DETAIL

Dwg. No. **06-003E-020**

Scale: NTS

Drawn by Check'd By

Project no.: Date:

06 24.11.2023



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9. BETWEEN THE ARCHITECT AND THE CONTRACTOR.
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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE
- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

POWER SYSTEM SOLAR
SCHEMATIC

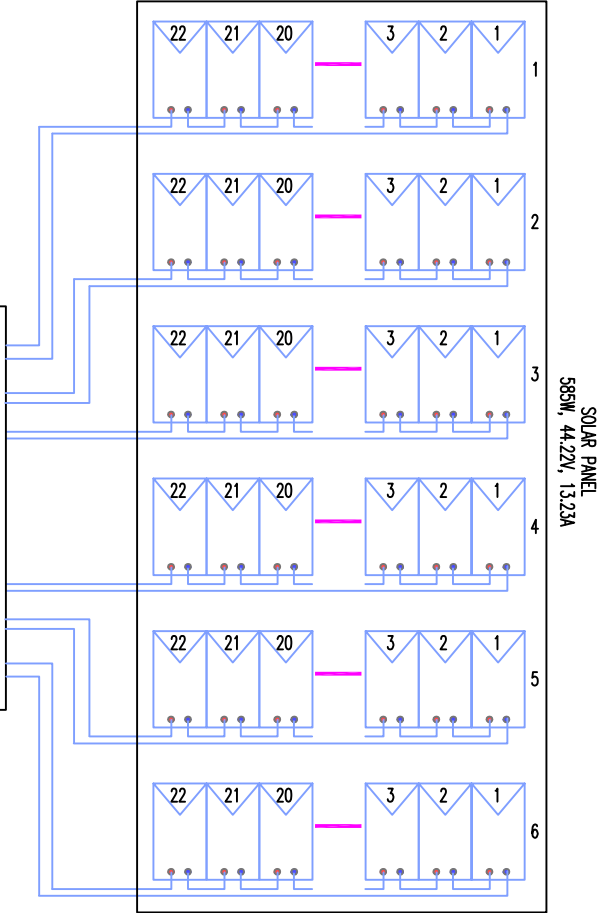
Dwg. No. **06-003E-021**

Scale: NTS

Drawn by Check'd By

Project no.: Date:

06 24.11.2023



10kWh Battery Pack

SOLAR PV POWER TO GRID SYNCHRONIZATION PANEL

MAIN POWER BOARD

POWER SYSTEM
SOLAR SCHEMATIC



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE
- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

SOCKET & SWITCHES
DETAIL

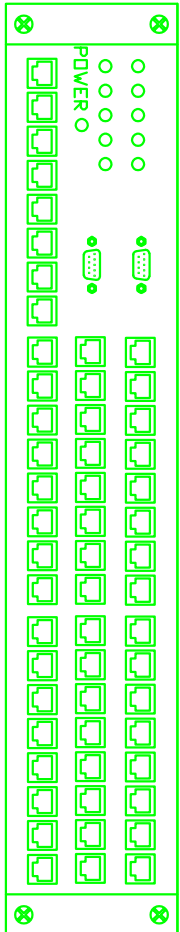
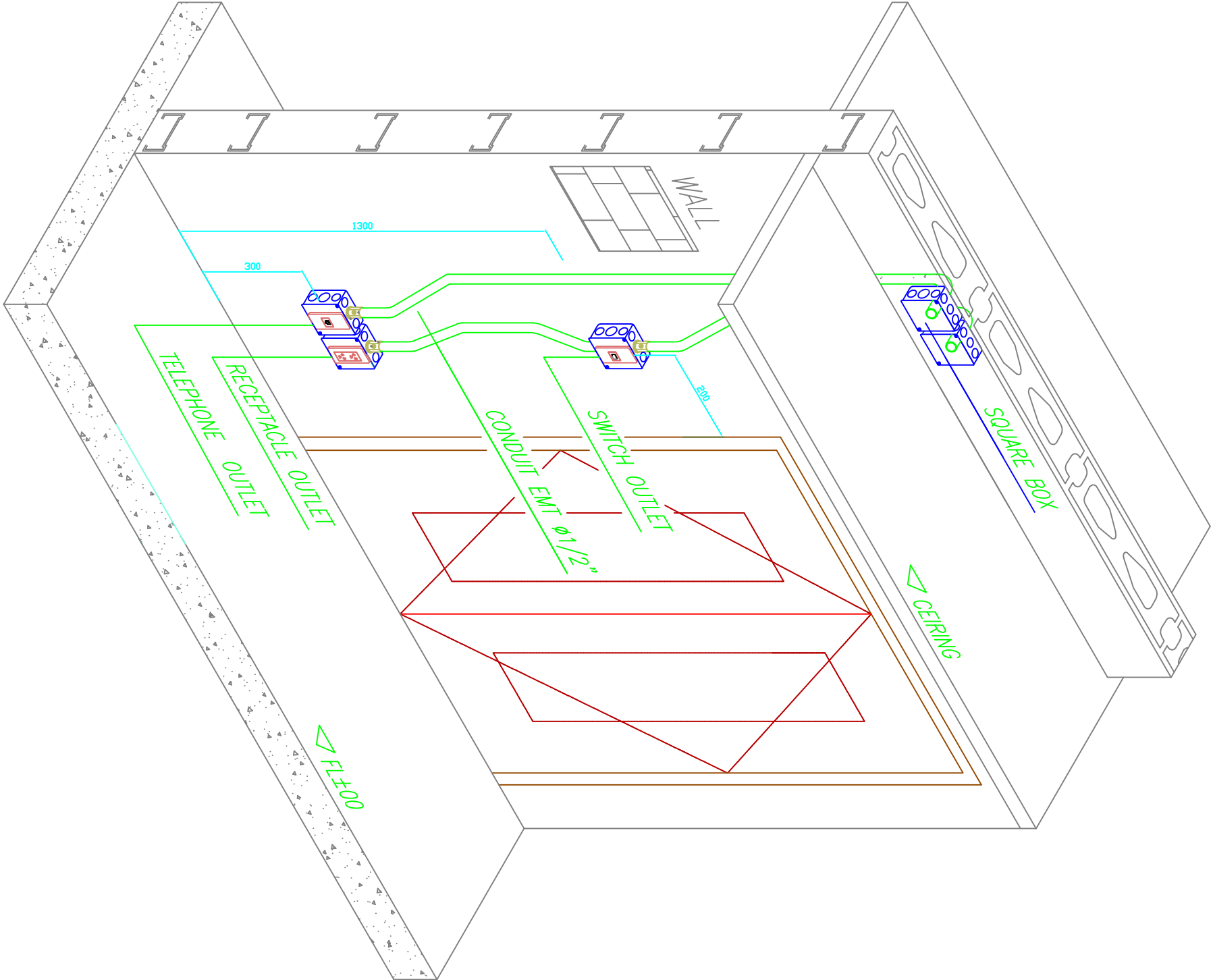
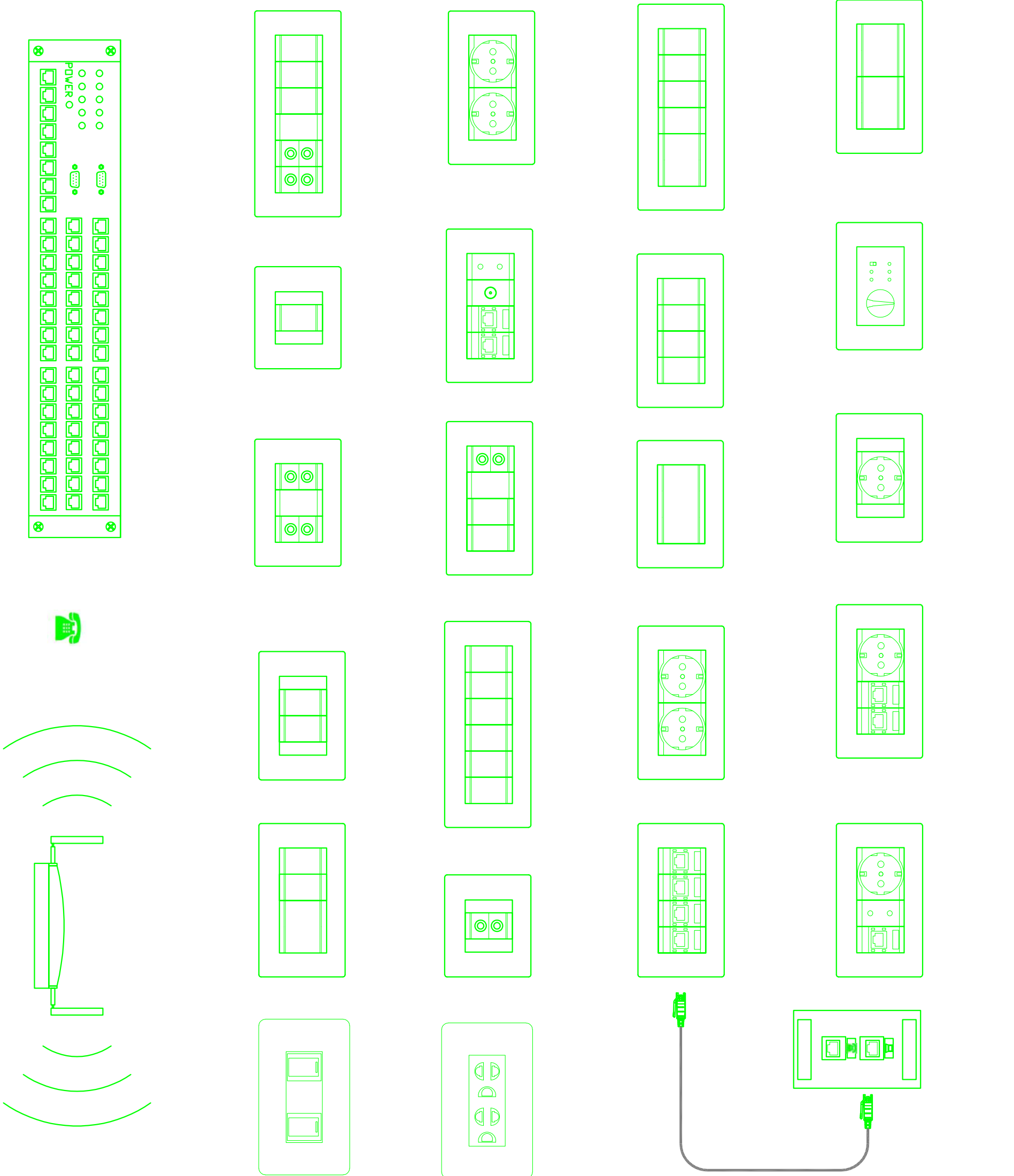
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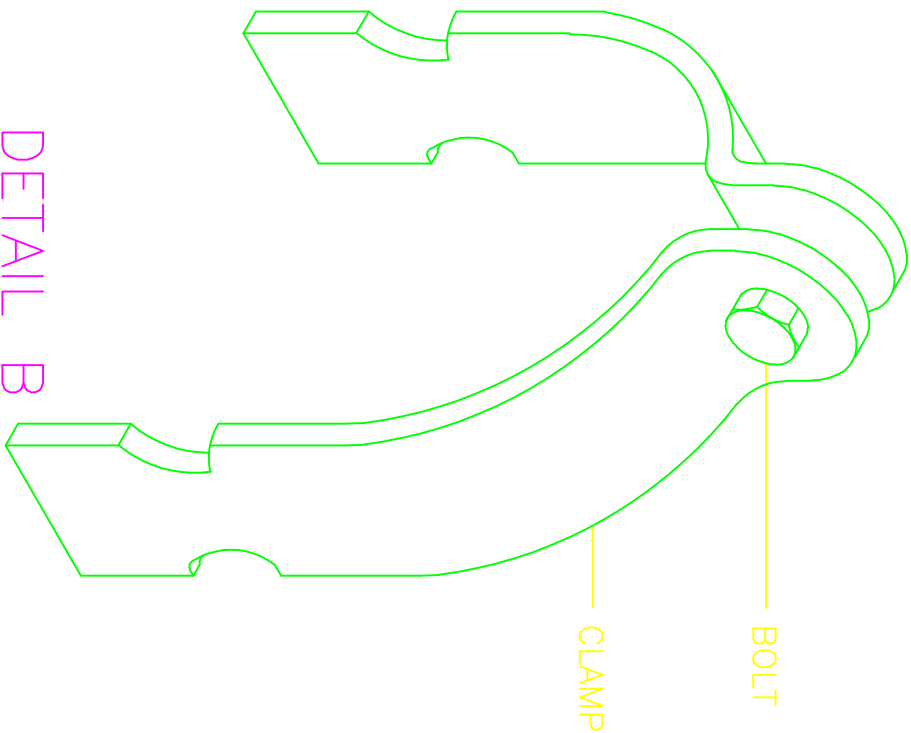
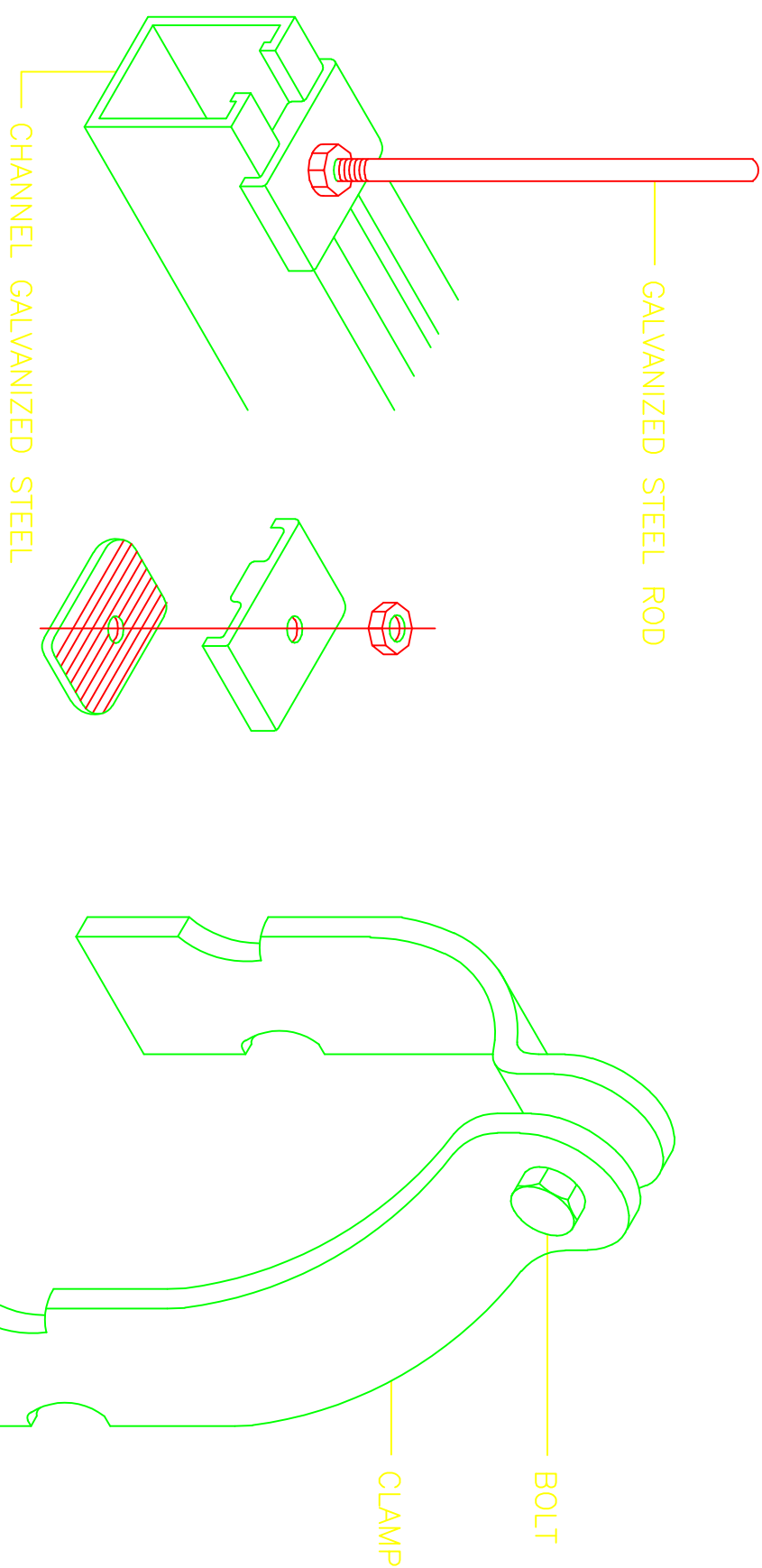
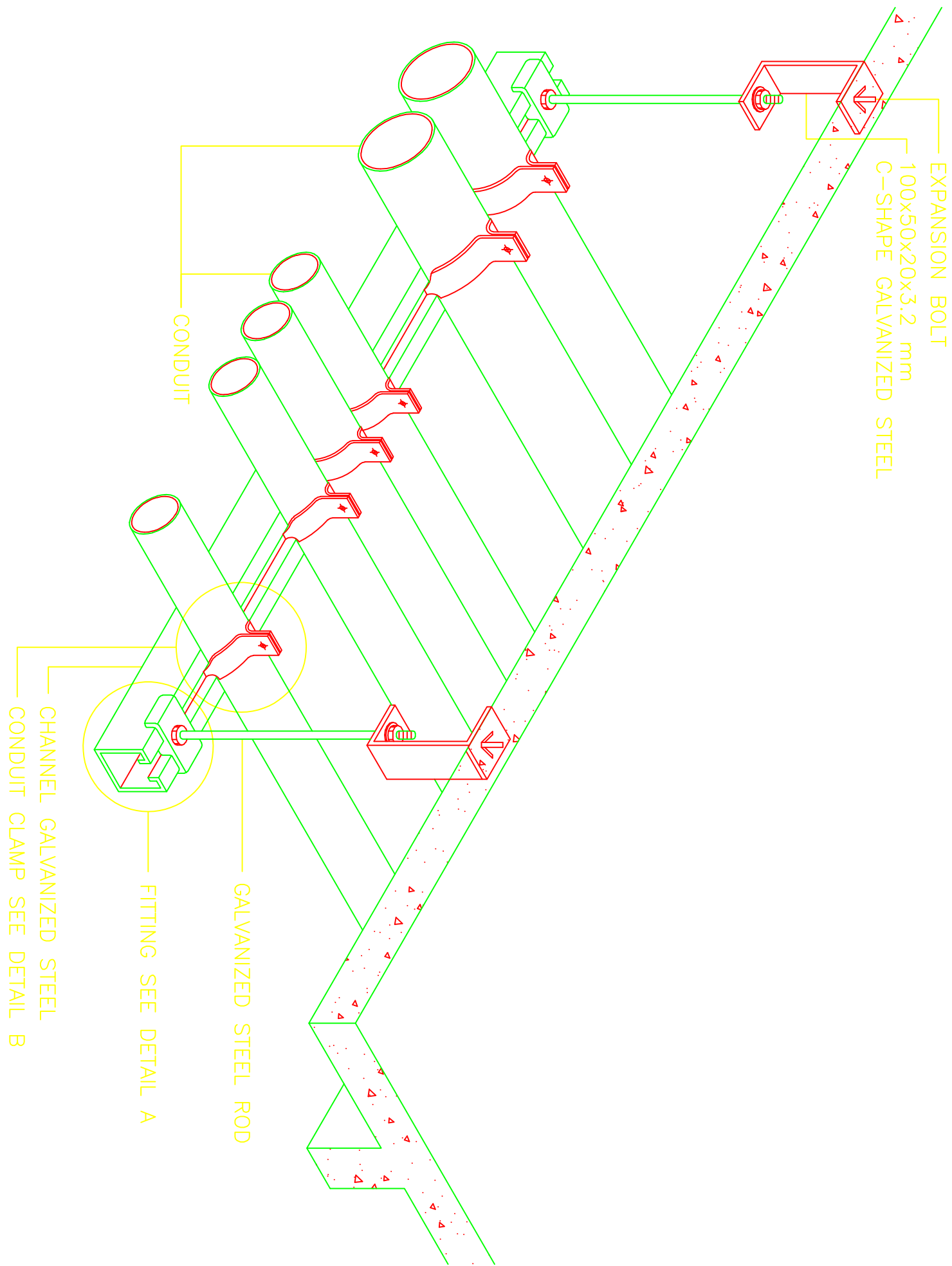
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CONDUIT SUPPORT



DETAIL A

DETAIL B

TENDER ISSUE

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE
- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

CONDUIT SUPPORT DETAIL

Dwg. No. **06-003E-024**

Scale: NTS

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Project no.: Date:

06 24.11.2023



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE
- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

CABLE TRAY DETAIL

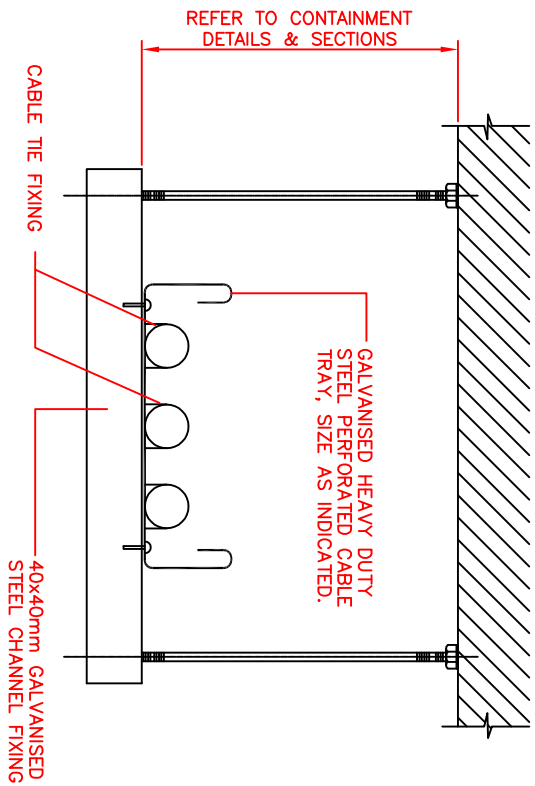
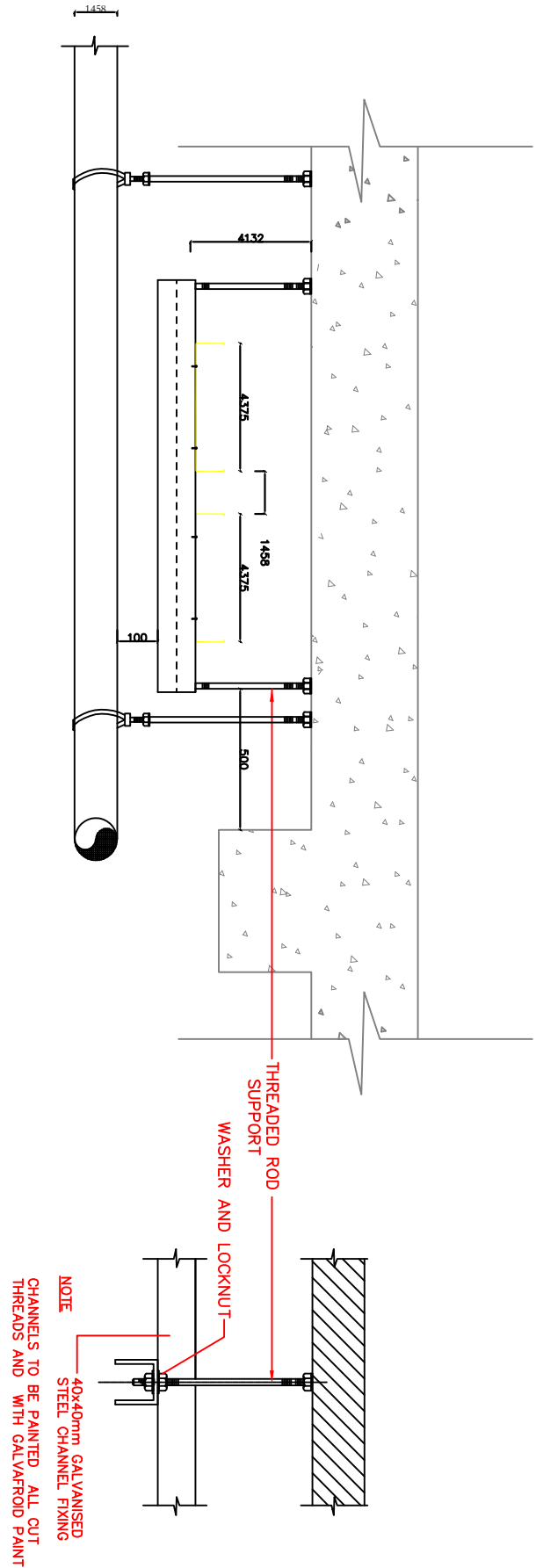
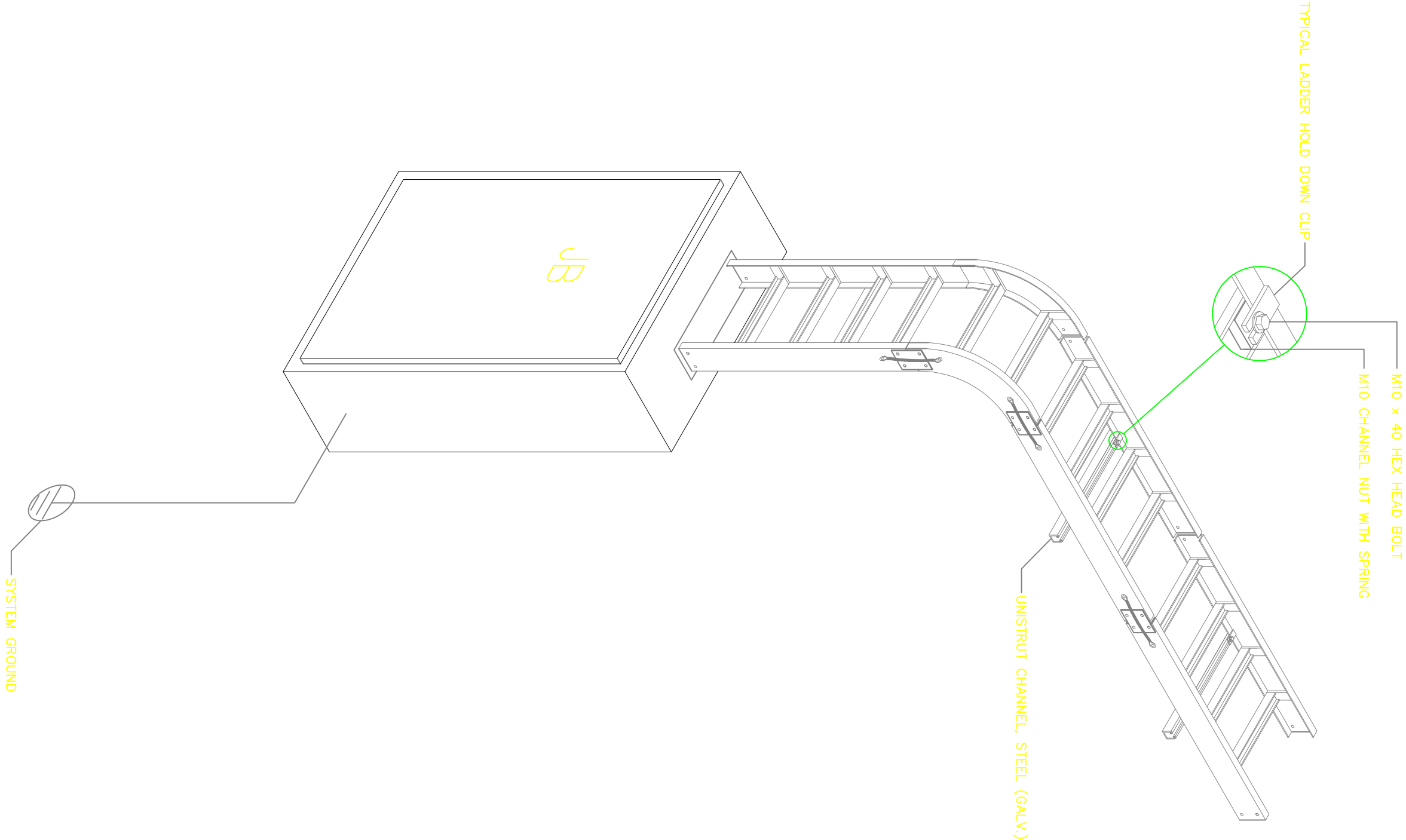
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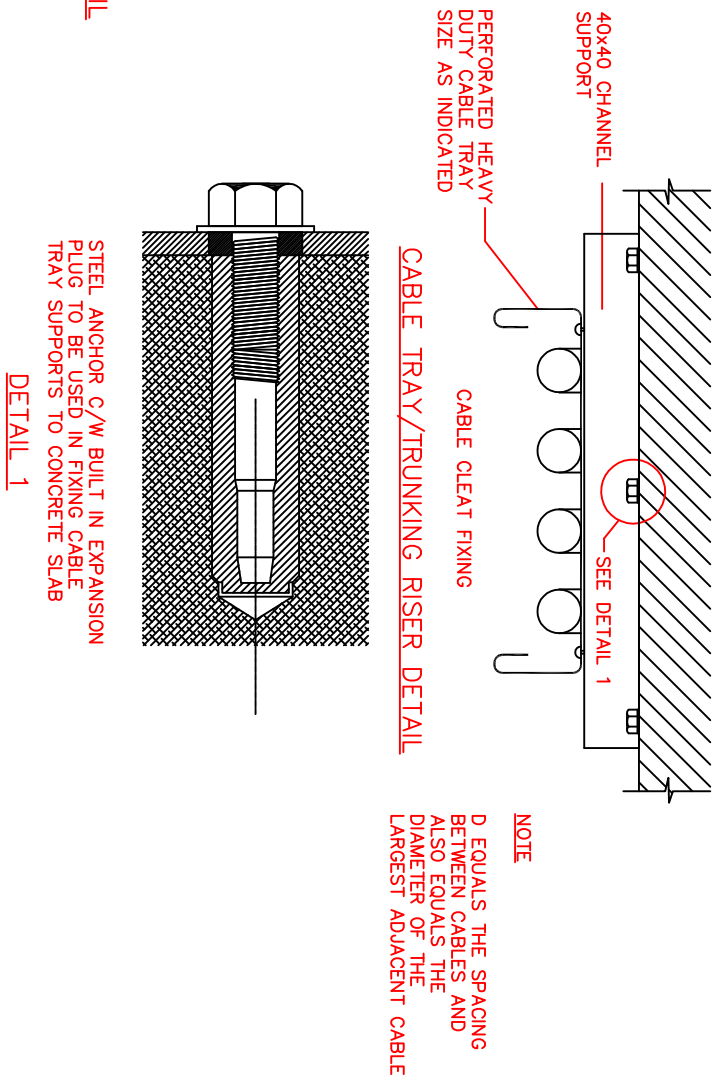
Project no.: Date:

06 24.11.2023



HORIZONTAL CABLE TRAY /TRUNKING SUPPORT STANDARD DETAIL

NOTE
CHANNELS TO BE PAINTED ALL CUT
THREADS AND WITH GALVANROD PAINT



DRAWING TITLE: PROPOSED CONSTRUCTION OF OFFICE & RELATED INFRASTRUCTURE, MSAMBWENI**DRAWING NUMBER: 06-003M- 001**

No.	DRAWING/ DOCUMENT TITLE	DRAWING NUMBER	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
D	ELECTRICAL ENGINEERING DRAWINGS				
1	LIST OF DRAWINGS	06- 003M- 001	A3	PDF/ EXCEL	Provided
2	GROUND FLOOR DRAINAGE	06- 003M- 002	A2	PDF/ DWG	Provided
3	FIRST FLOOR DRAINAGE	06- 003M- 003	A2	PDF/ DWG	Provided
4	SITEPLAN DRAINAGE	06- 003M- 004	A2	PDF/ DWG	Provided
5	GROUND FLOOR PLUMBING	06- 003M- 005	A2	PDF/ DWG	Provided
6	FIRST FLOOR PLUMBING	06- 003M- 006	A2	PDF/ DWG	Provided
7	ROOF PLUMBING	06- 003M- 007	A2	PDF/ DWG	Provided
8	SITEPLAN PLUMBING	06- 003M- 008	A2	PDF/ DWG	Provided
9	SITEPLAN FIREFIGHTING	06- 003M- 009	A2	PDF/ DWG	Provided
10	RAINWATER DRAINAGE	06- 003M- 010	A2	PDF/ DWG	Provided



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:

GROUND FLOOR DRAINAGE

Dwg. No. **06-003M-002**

Scale: NTS

Drawn by **E.M.** Chk'd By **G.O.**

Project no.: _____ Date: _____

06 05.05.2024

▼ Elevation 02

▲ Elevation 04

Elevation 03 ▲

To
Waste
Treatment
Plant



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

FIRST FLOOR DRAINAGE

Dwg. No. 06-003M-003

Scale: NTS

Drawn by E.M. Chek'd By G.O.

Project no.: Date:
P.06 05.05.2024



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NAIROBI. KENYA.

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:

SITE PLAN

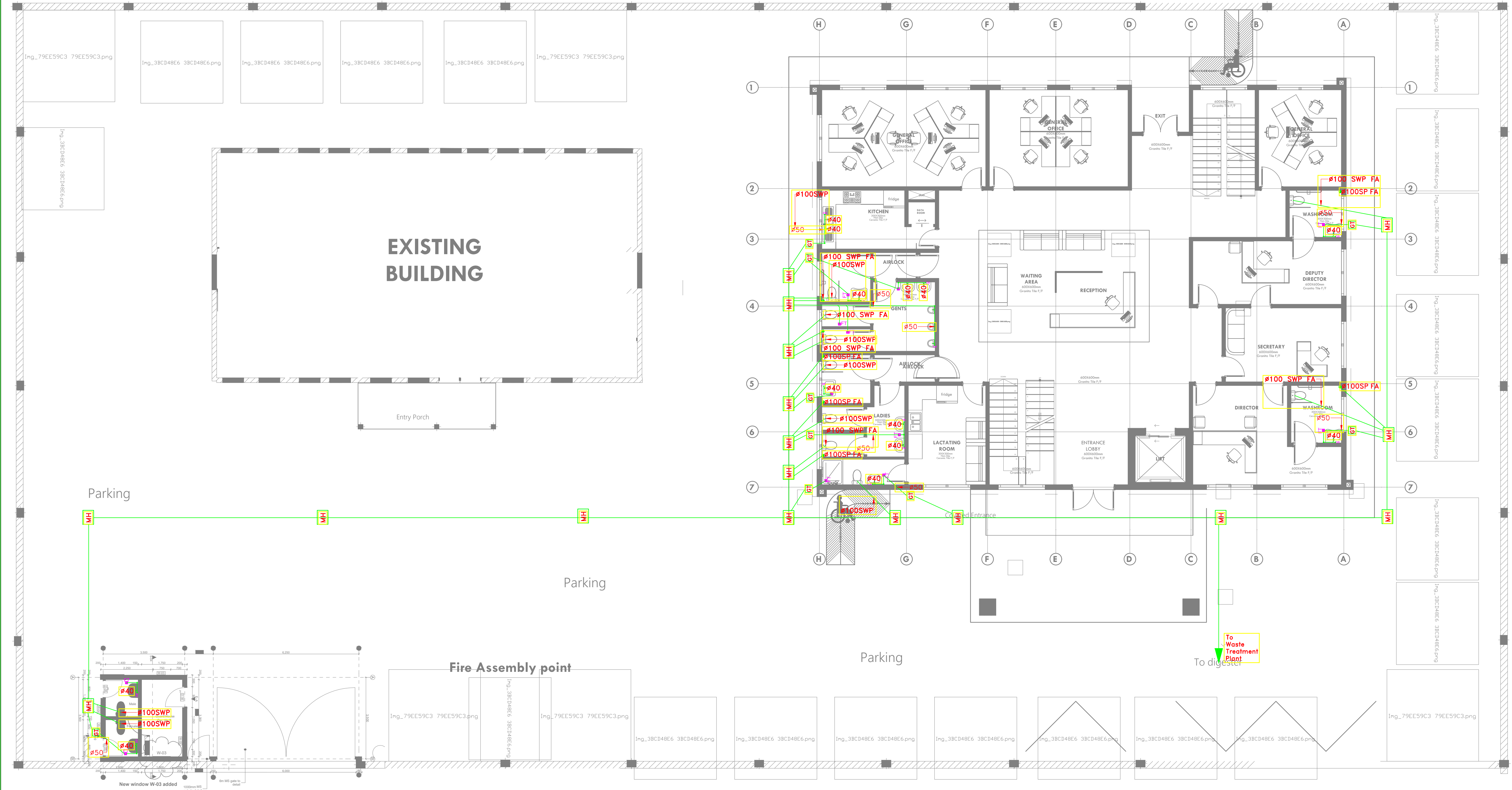
Dwg. No. **06-003M-004**

Scale: NTS

Drawn by **E.M.** Chk'd By **G.O.**

Project no.: _____ Date: _____

06 05.05.2024





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

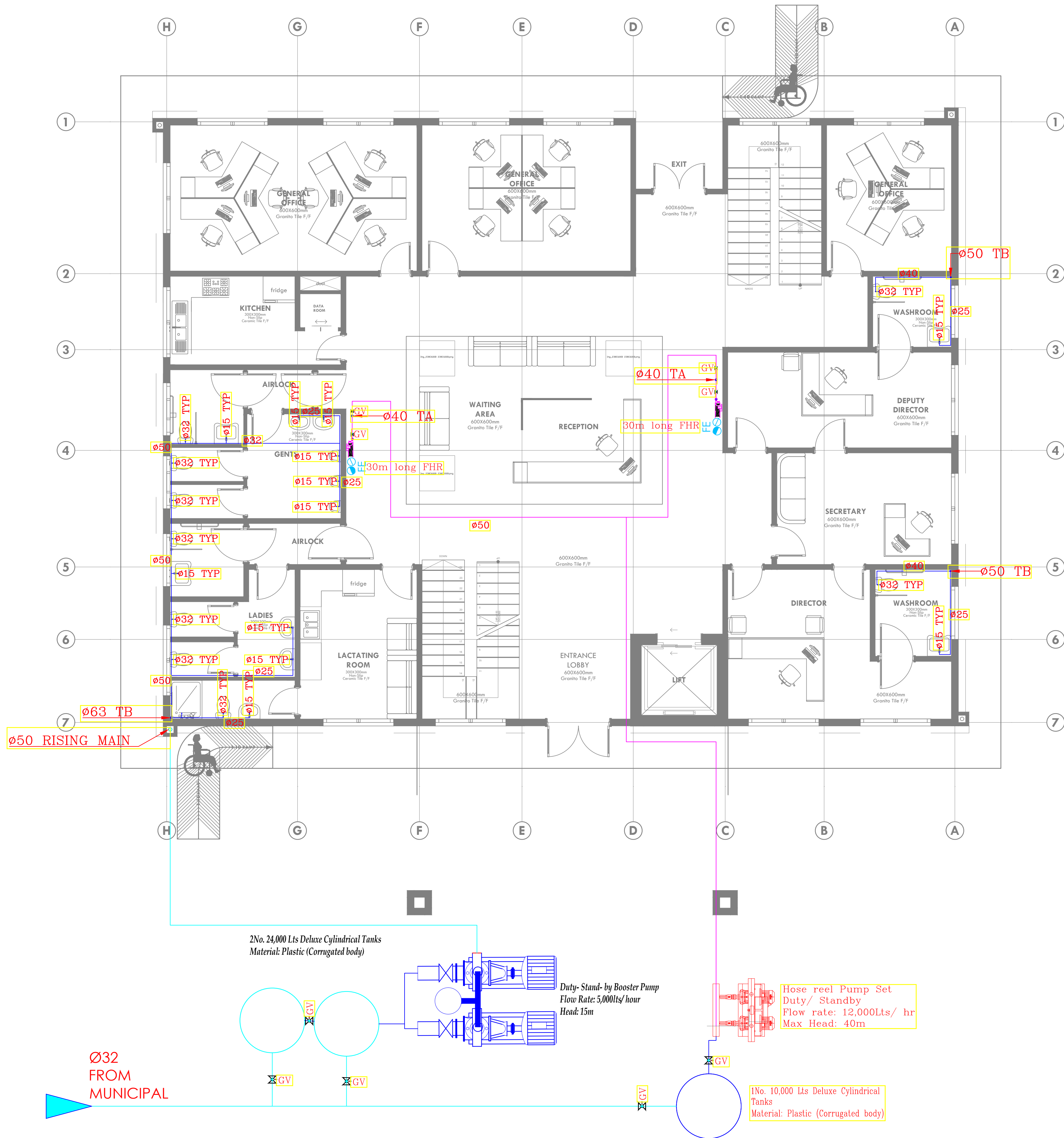
GROUND FLOOR WATER
SUPPLY

Dwg. No. **06-003M-005**

Scale: NTS

Drawn by **E.M.** Chck'd By **G.O.**

Project no.: 06 Date: 05.05.2024





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NAIROBI. KENYA.

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
FIRST FLOOR WATER
SUPPLY

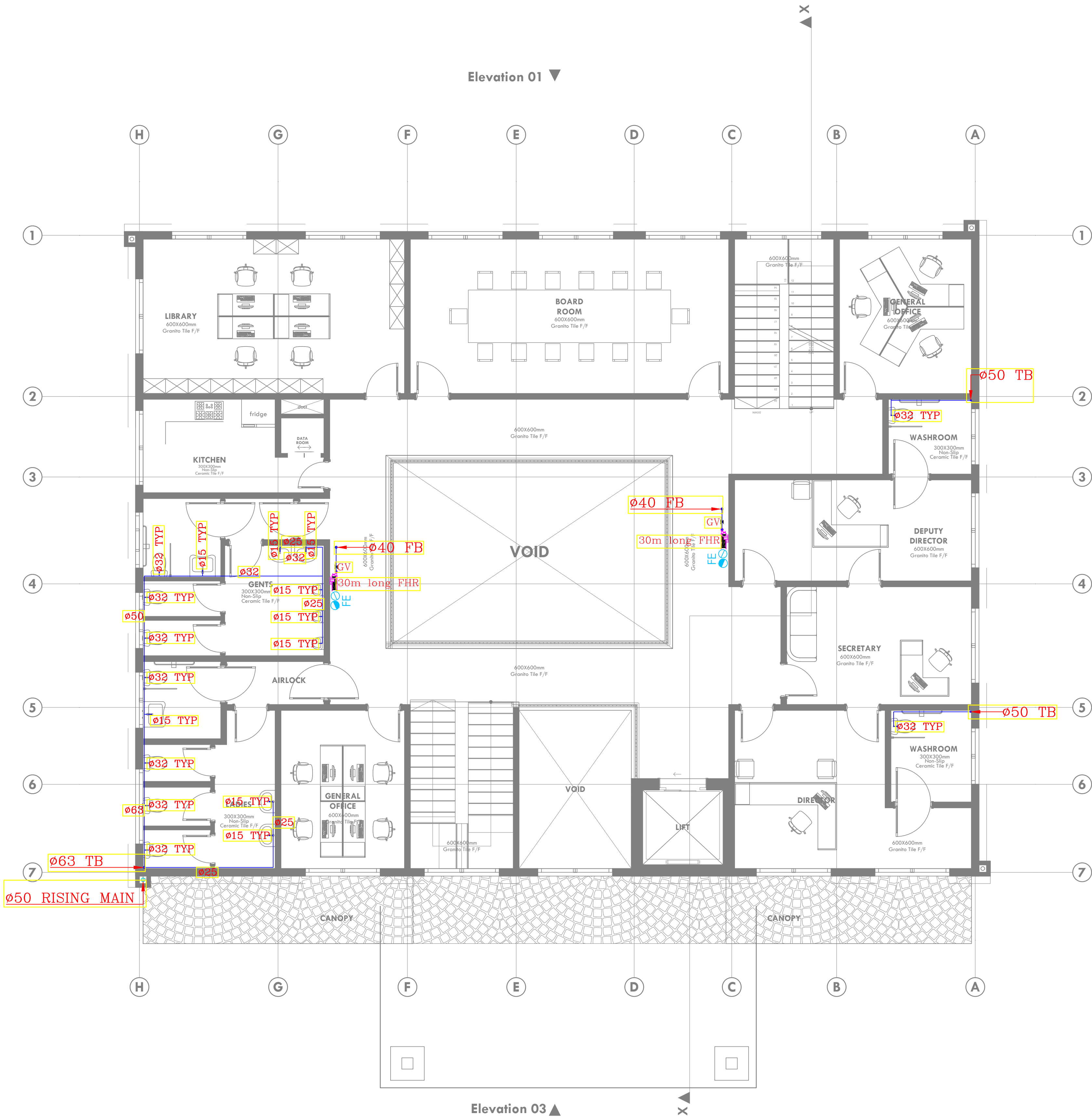
Dwg. No. **06-003M-006**

Scale: NTS

Drawn by **E.M.** Chk'd By **G.O.**

Project no.: Date:
06 05.05.2024

Elevation 01 ▼



Elevation 03 ▲

Elevation 04 ▲

LEGEND

- CWS — COLD WATER SUPPLY
TB — TO BELOW
FA — FROM ABOVE
TA — TO ABOVE
FE — 9L WATER CO₂ FIRE EXTINGUISHER
FE — 9KG DRY POWDER FIRE EXTINGUISHER
HR — 30m HOSEREEL
— LANDING VALVE
PPR — POLY PROPELEYNE RANDOM
GMS — GALVANIZED MILD STEEL PIPE
— PLUMBING SERVICES (PPR MATERIAL)
— HOSEREEL SERVICES (GMS CLASS 'B')



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NAIROBI, KENYA.

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE-MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

ROOF FLOOR WATER
SUPPLY

Dwg. No. 06-003M-007

Scale: NTS

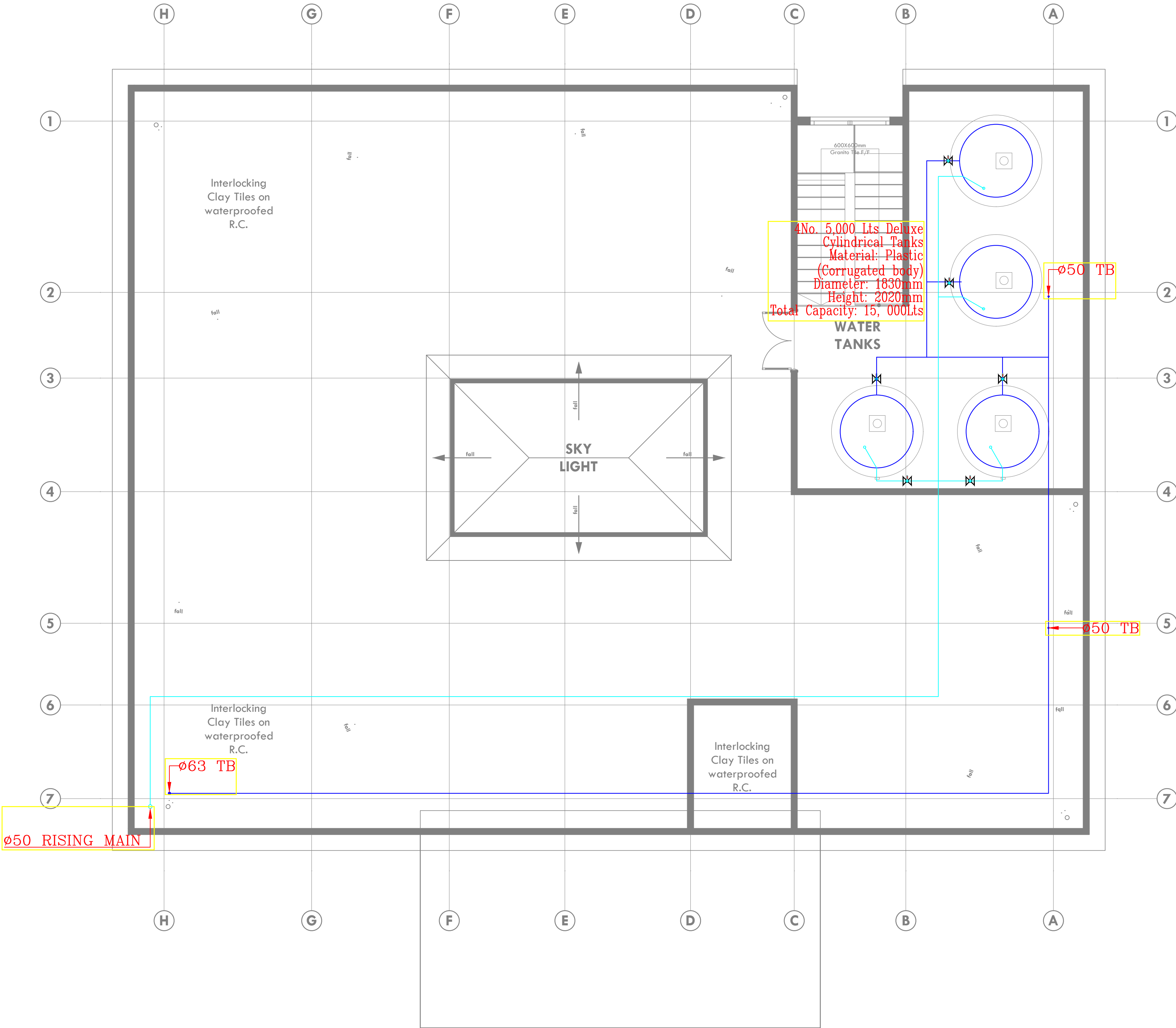
Drawn by E.M. Chk'd By G.O.

Project no.:

06

Date:

05.05.2024



LEGEND

- CWS — COLD WATER SUPPLY
TB — TO BELOW
FA — FROM ABOVE
TA — TO ABOVE
FE — 9L WATER CO₂ FIRE EXTINGUISHER
FE — 9KG DRY POWDER FIRE EXTINGUISHER
HR — 30m HOSEREEL
— LANDING VALVE
PPR — POLY PROPELEYNNE RANDOM
GMS — GALVANIZED MILD STEEL PIPE
— PLUMBING SERVICES (PPR MATERIAL)
— HOSEREEL SERVICES (GMS CLASS 'B')

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10. THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.

REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF OFFICE & RELATED INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

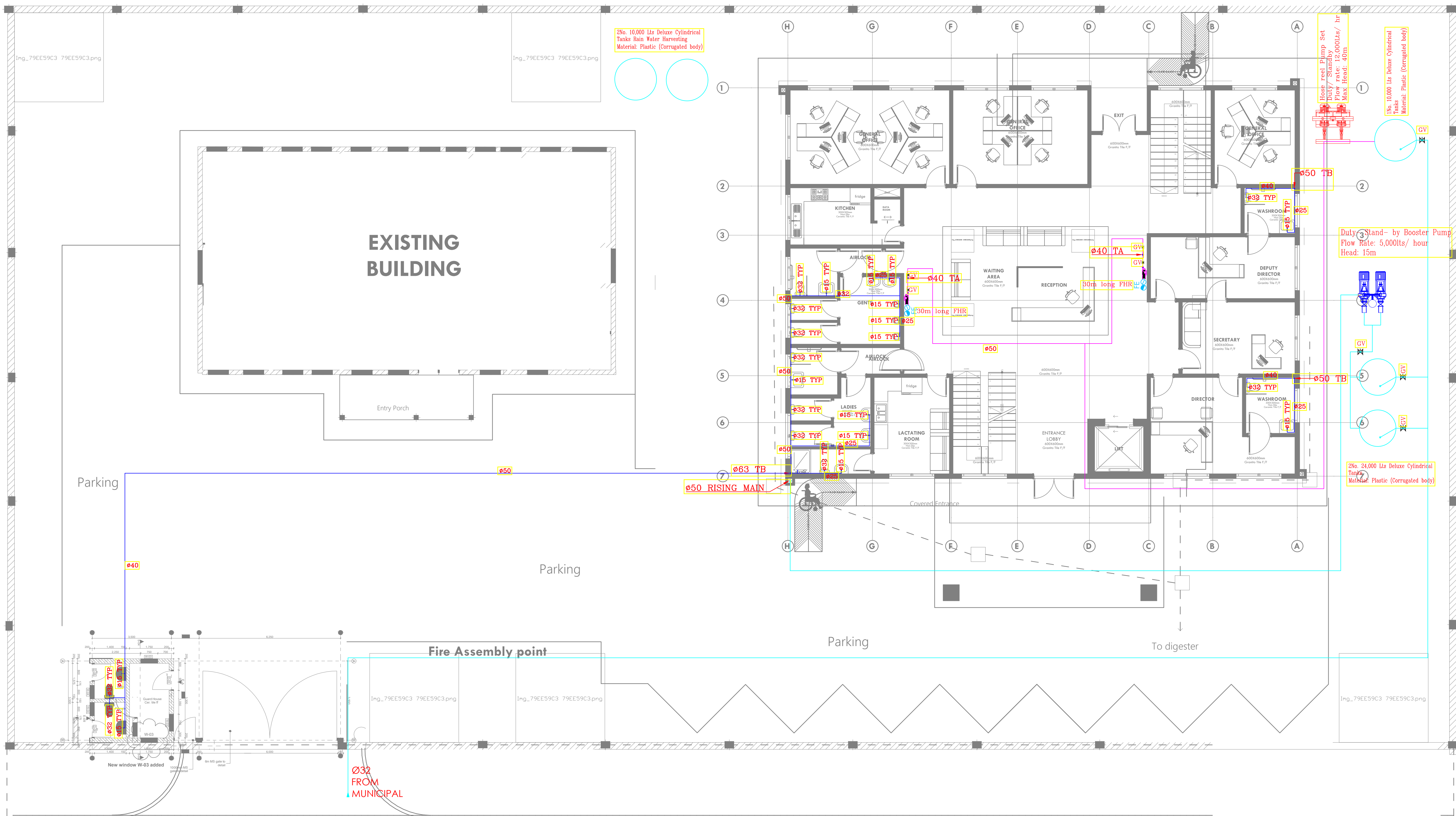
CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

SITE PLAN

Dwg. No.	06-003M-008		
Scale:	NTS		
Drawn by	E.M.	Chek'd By	G.O.
Project no.:	Date:		
06	05.05.2024		





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
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DRAWING TITLE:

SITE PLAN FIREFIGHTING

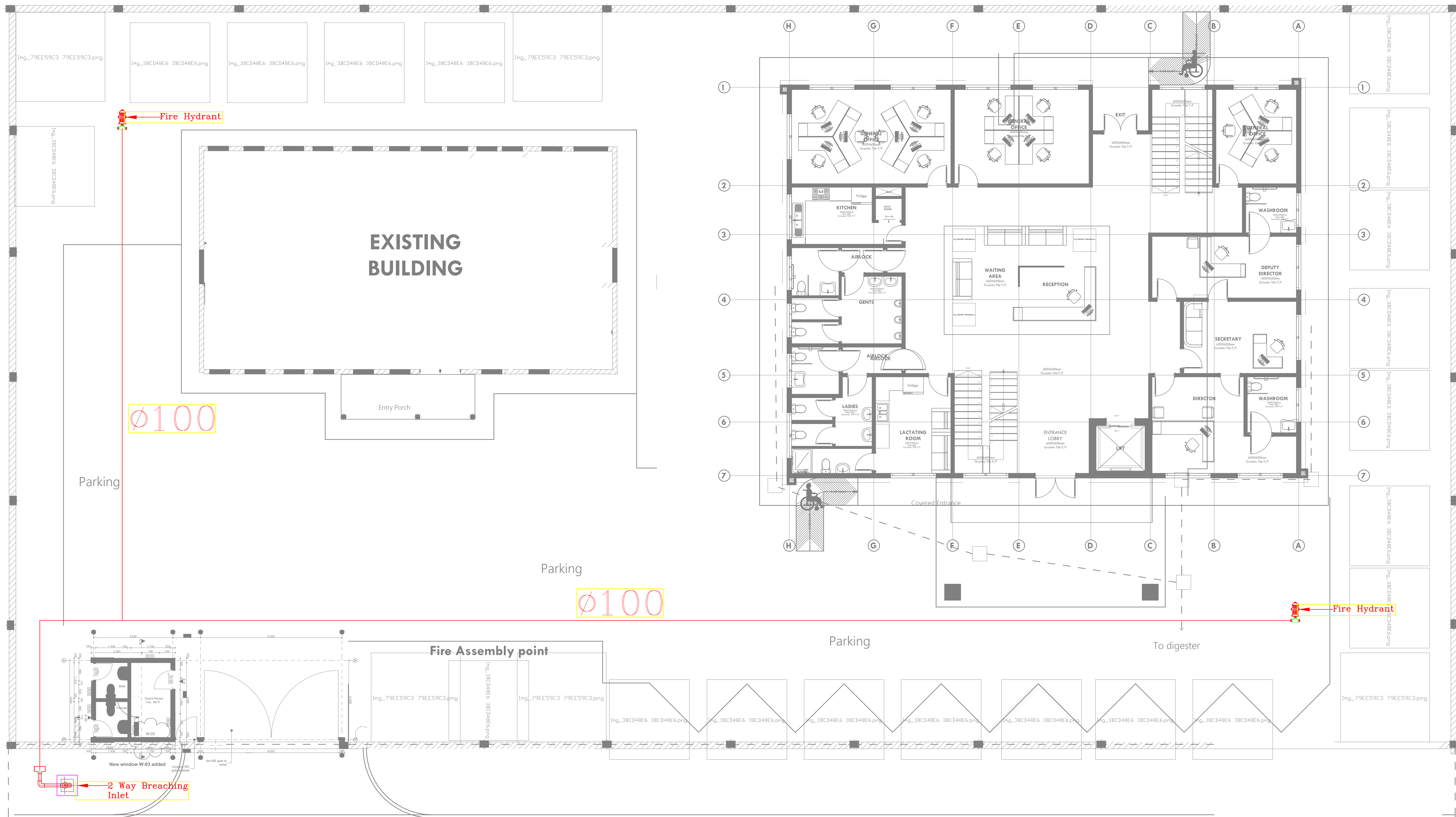
Dwg. No. **06-003M-009**

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
OFFICE & RELATED
INFRASTRUCTURE- MSAMBWENI

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
ROOF RAINWATER
DRAINAGE LAYOUT

Dwg. No. 06-003M-010

Scale: NTS

Drawn by Check'd By

Project no.: Date:

05

24.11.2023

