



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 KILIFI FISH LANDING SITE

**Employer:** State Department for Blue Economy & Fisheries  
**Project:** Kenya Marine Fisheries Socio-Economic  
Development Project (KEMFSED)  
**Contract Title:** CONSTRUCTION OF KILIFI FISH LANDING  
SITE  
**Country:** Republic of Kenya  
**Loan No./Credit No/Grant No.:** 6540-KE  
**RFBNo.:** KE-MOMBE&MA-KLF-2024-009-CW  
**Issued on:** 13<sup>TH</sup> FEBRUARY 2024

VOLUME 4 OF 4  
DRAWINGS

# PROJECT 10

## KILIFI CENTRAL FISH LANDING SITE

| NO.                                | DRAWINGS/DOCUMENT.    | DRAWING NO.             | DRAWING SHEET SIZE. | DRAWING FORMAT. | DOCUMENT STATUS. |
|------------------------------------|-----------------------|-------------------------|---------------------|-----------------|------------------|
|                                    | PROJECT 10.           | ARCHITECTURAL DRAWINGS. |                     |                 |                  |
| 01                                 | LIST OF DRAWINGS.     | 10-001-000              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 02                                 | SITE PLAN.            | 10-001-001              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 03                                 | FLOATING JETTY.       | 10-001-002              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| OPEN AIR MARKET BUILDING           |                       |                         |                     |                 |                  |
| 04                                 | PLANS & ELEVATIONS.   | 10-001-003              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 05                                 | SECTIONS & 3D.        | 10-001-004              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 06                                 | WINDOW & SCHEDULES.   | 10-001-005              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| SOCIAL FISH BANDA                  |                       |                         |                     |                 |                  |
| 07                                 | PLANS                 | 10-001-006              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 08                                 | ELEVATIONS & SECTIONS | 10-001-007              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 09                                 | 3D'S.                 | 10-001-008              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 10                                 | WINDOW & DOORS.       | 10-001-009              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| FISH GEAR MENDING SHED             |                       |                         |                     |                 |                  |
| 11                                 | PLANS & ELEVATIONS    | 10-001-010              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 12                                 | SECTIONS & 3D'S       | 10-001-011              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 13                                 | WINDOW & DOORS.       | 10-001-012              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| FISH GEAR STORE AND ABLUTION BLOCK |                       |                         |                     |                 |                  |
| 14                                 | PLANS & ELEVATIONS    | 10-001-013              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 15                                 | SECTIONS & 3D'S.      | 10-001-014              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 16                                 | WINDOW & DOORS.       | 10-001-015              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| POWER HOUSE                        |                       |                         |                     |                 |                  |
| 17                                 | PLANS                 | 10-001-016              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 18                                 | ELEVATION & SECTIONS  | 10-001-017              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 20                                 | 3D'S.                 | 10-001-018              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| 21                                 | WINDOW & DOORS.       | 10-001-019              | 3A.                 | PDF/DWG.        | PROVIDED.        |
| PUMP HOUSE                         |                       |                         |                     |                 |                  |
| 22                                 | PUMP HOUSE            | 10-001-020              | 3A.                 | PDF/DWG.        | 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 design 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 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**  
1.2. All values

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 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 BS85 414 and S2255. cast iron to comply to BS85 497 table 6 grade C except ones in the ground.
18. All inspection chamber covers and frames shall be cast iron to comply to BS85 497 table 6 grade C except in the ground.
19. Storm water pipes shall be UPVC to comply to BS85 497 table 6 grade C except in the ground.
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**  
24. All work

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 : **KILIFI CENTRAL FISH  
LANDING SITE  
KILIFI COUNTY**

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.co

Drawn by:

P. MOMANYI

B. Arch. (Hons)

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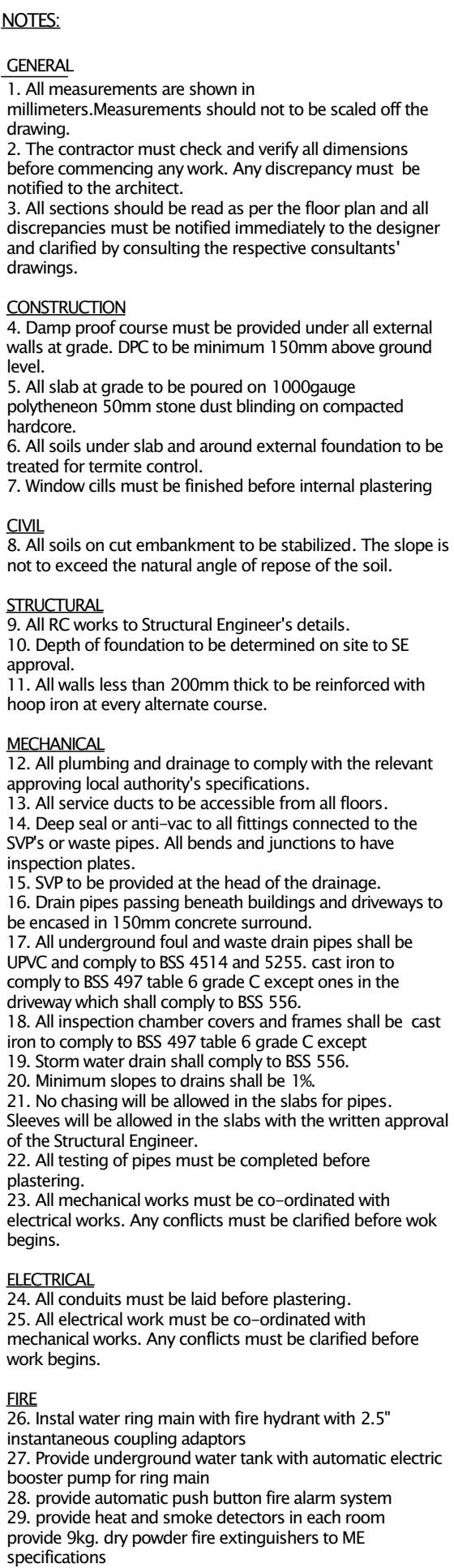
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Plot L. R. No.:

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

**WORKING DRAWINGS.**

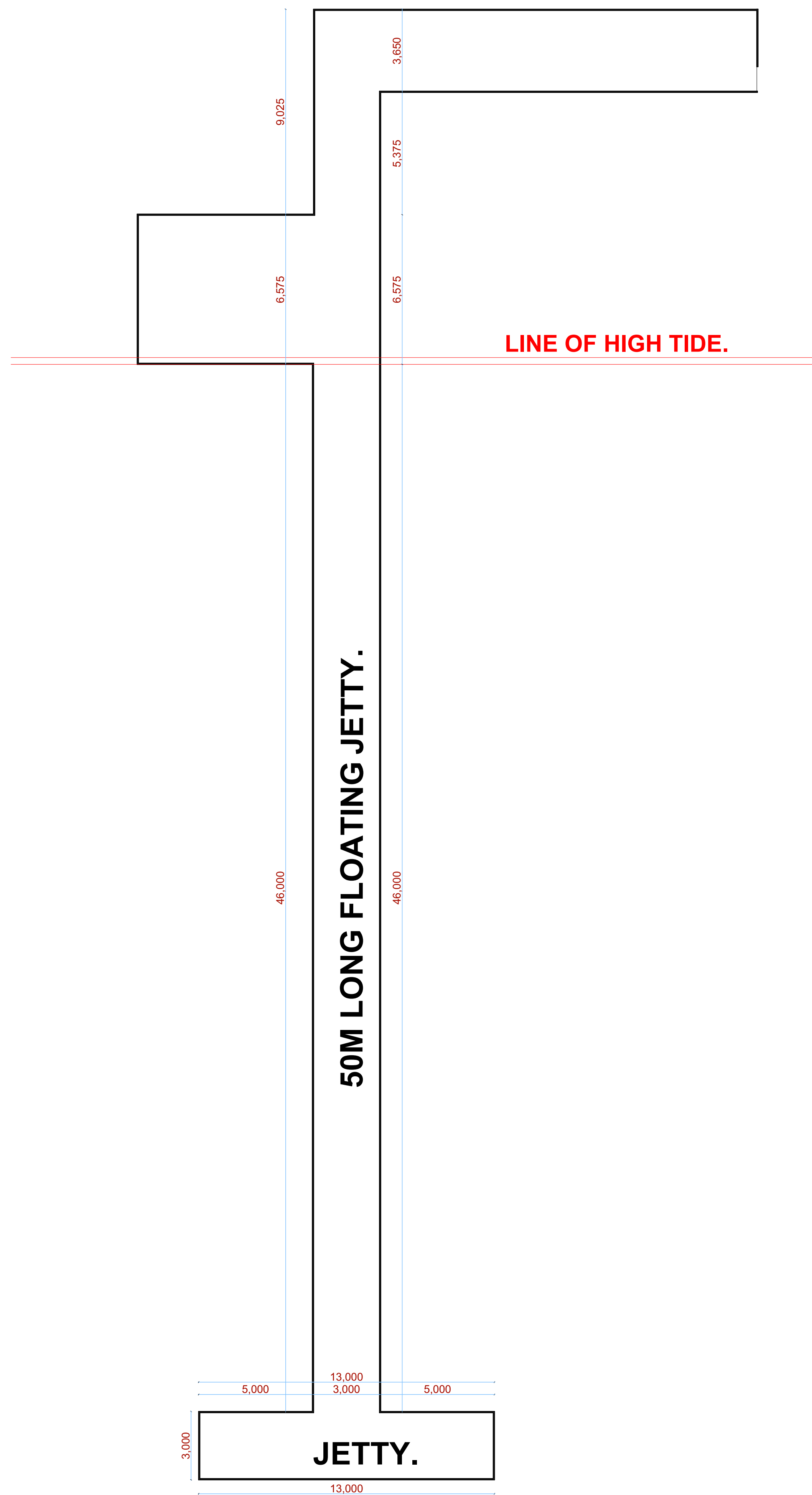
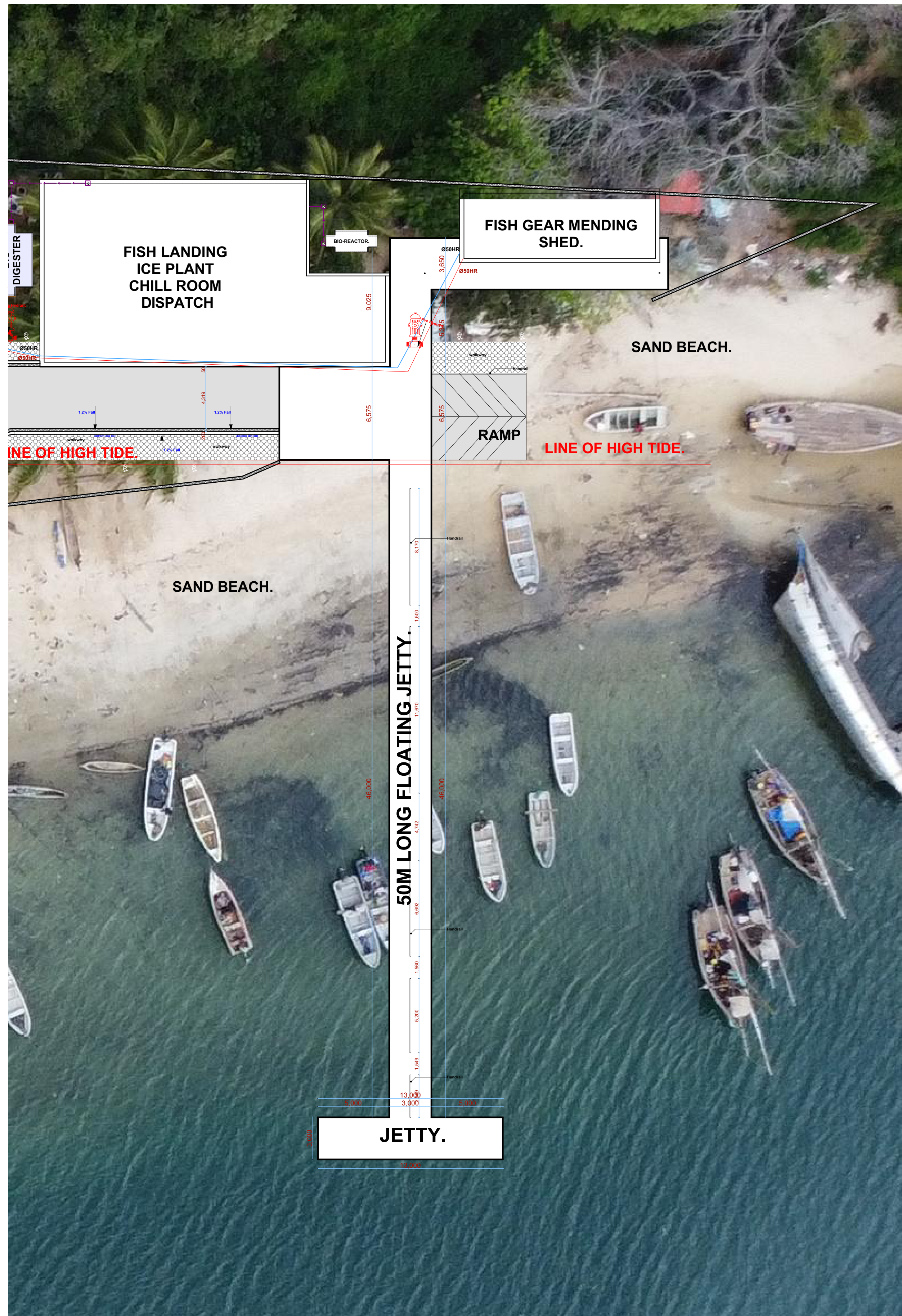
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| Drawn by:<br><b>J. MOMANYI</b><br>B. Arch. (Hons). | Checked by :-<br><b>F. TUNDULI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1552) | Checked by :-<br><b>J. MOMANYI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1122) |
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## 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 design 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 prevailing approved local authority's specifications.
13. All service ducts to be installed in accordance with BS 5266 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. UPVP 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 to be cast iron pipes shall be UPVC and comply to BS 4514 and 5255, cast iron pipes shall comply to BS 5497 table 6 grade C except ones in the driveway which shall comply to BS 555.
18. All iron chimney covers and frames shall be cast iron to comply to BS 5497 table 6 grade C except
19. Storm water drain shall comply to BS 556.
20. Minimum pipe size shall be 100mm.
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 : | <b>KILIFI CENTRAL FISH<br/>LANDING SITE<br/>KILIFI COUNTY</b> |
|------------|---|

Client:

STATE DEPARTMENT FOR FISHERIES  
AQUACULTURE AND THE BLUE  
ECONOMY

Signature .....

Subject :

**WORKING DRAWINGS.**

|               |  |
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| Consultancy : |  |
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Drawn by:  
**P. MOMANYI**  
B. Arch. (Hon)

Checked by : -  
**F. TUNDULI**  
B. Arch. (Hon)

Checked by : -  
**J. MOMANYI**  
B. Arch. (Hon

Date: NOV 2023

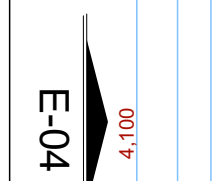
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GENERAL

1. All measurements are in millimeters.

3. All sections should be read as per the floor plan and all

4. Damp proof walls at grade.

6. All soils under slab and around external foundation to 1

8. All soil not to be ex-

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

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

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

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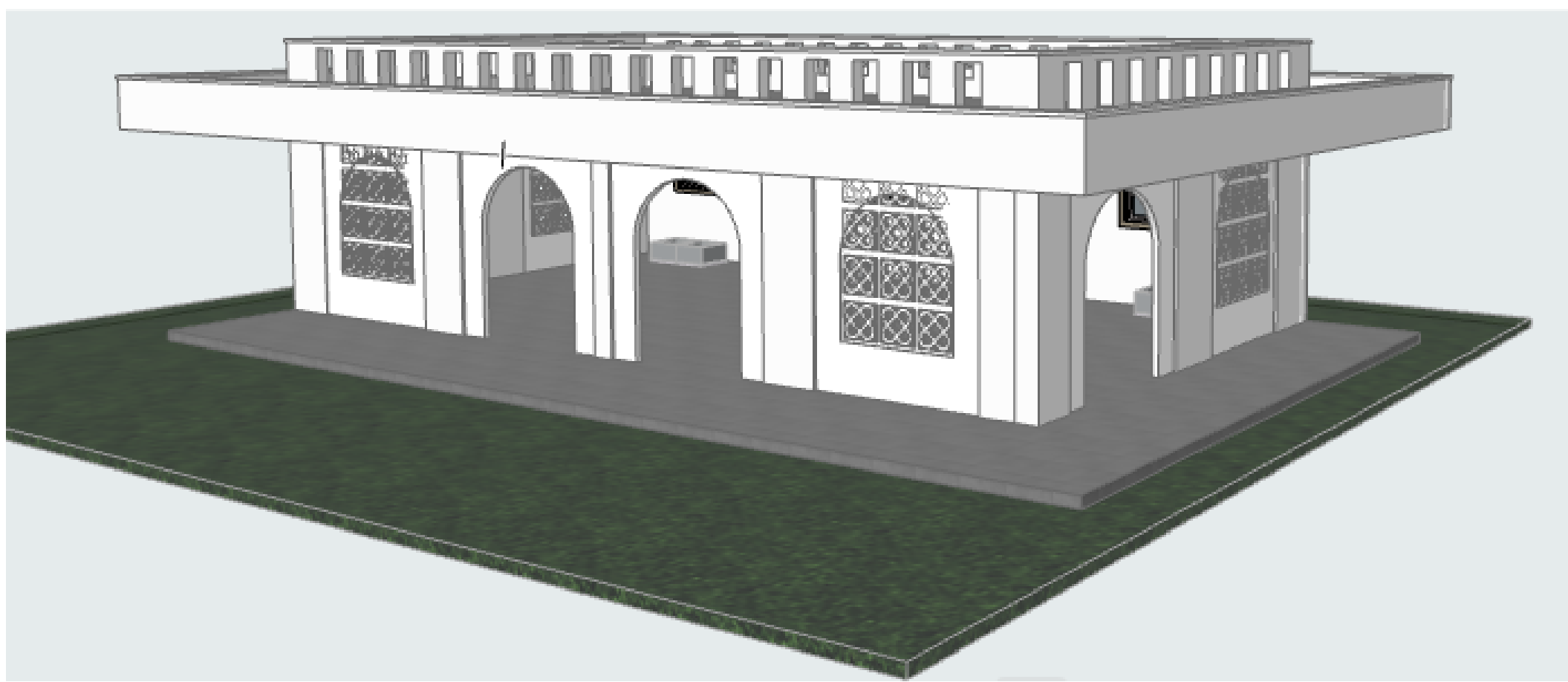
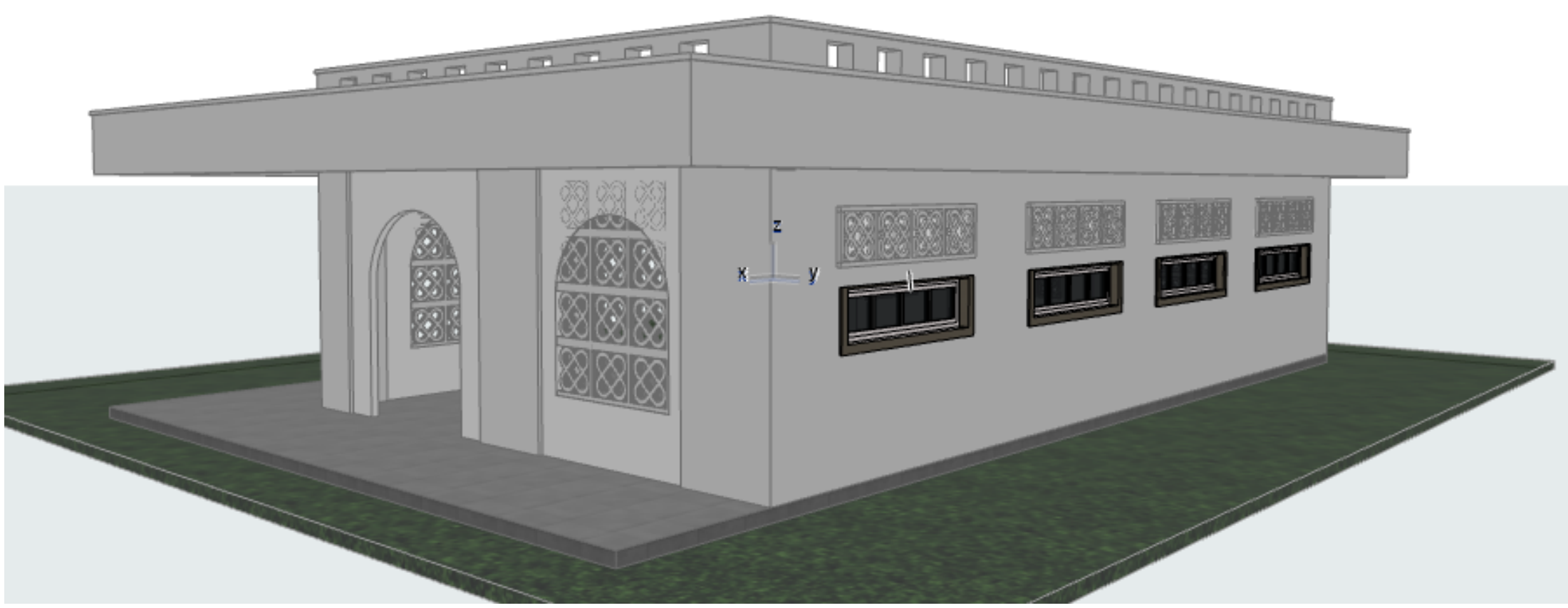
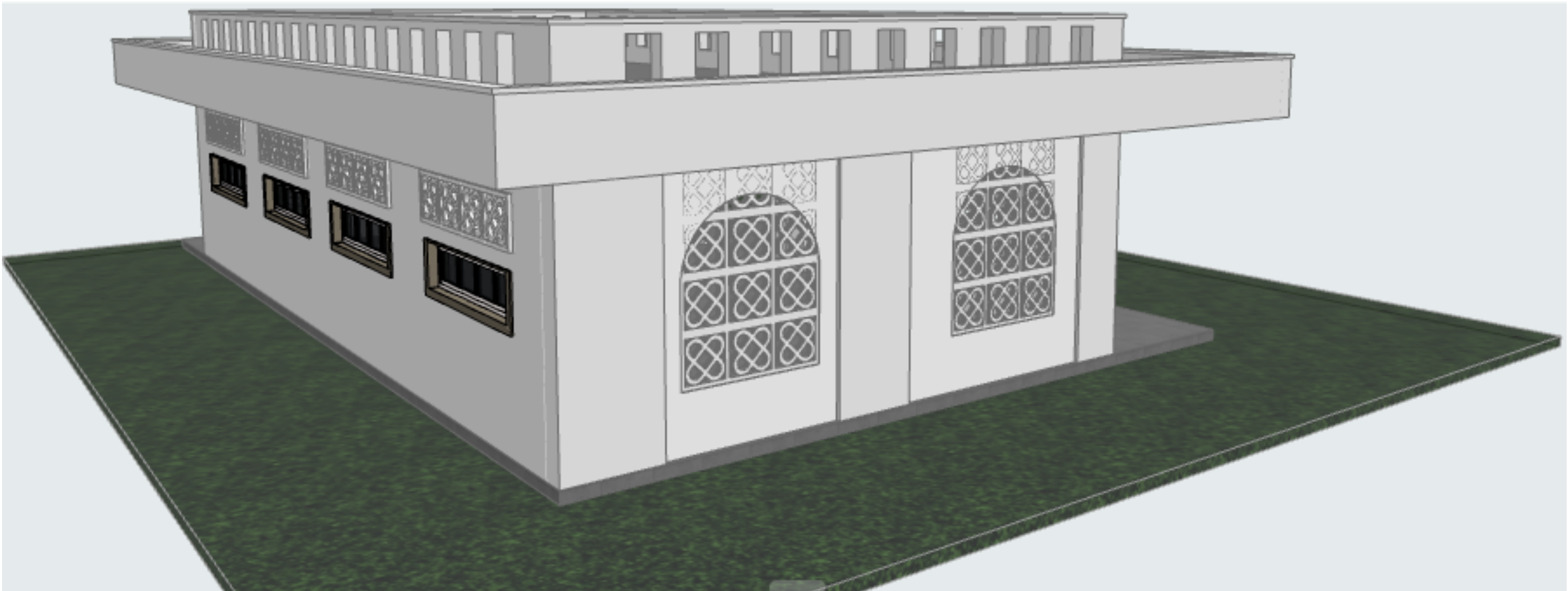
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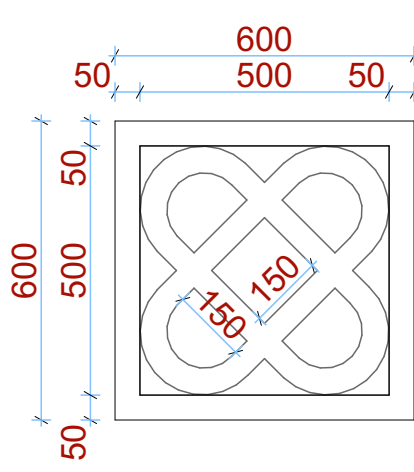
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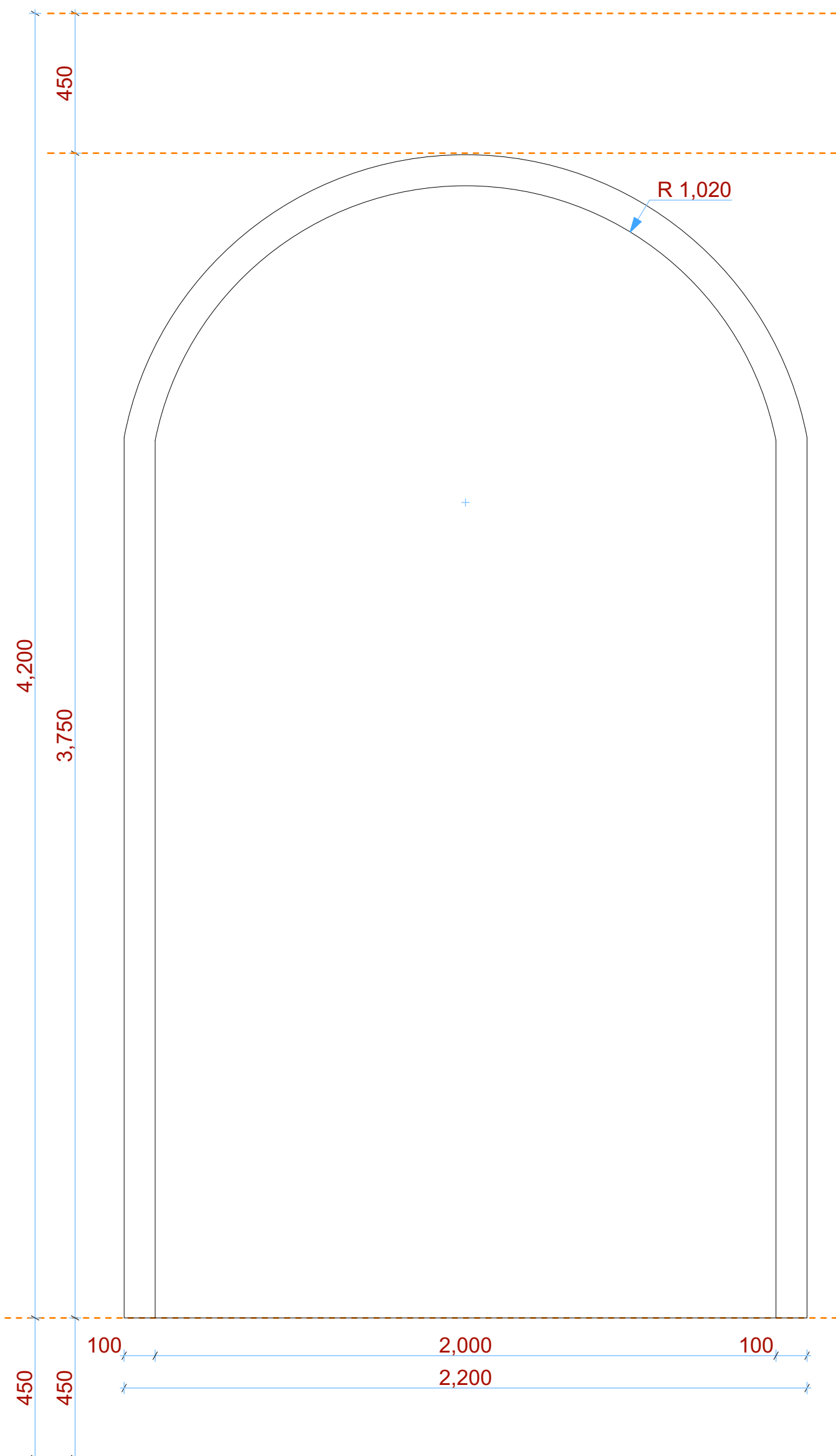
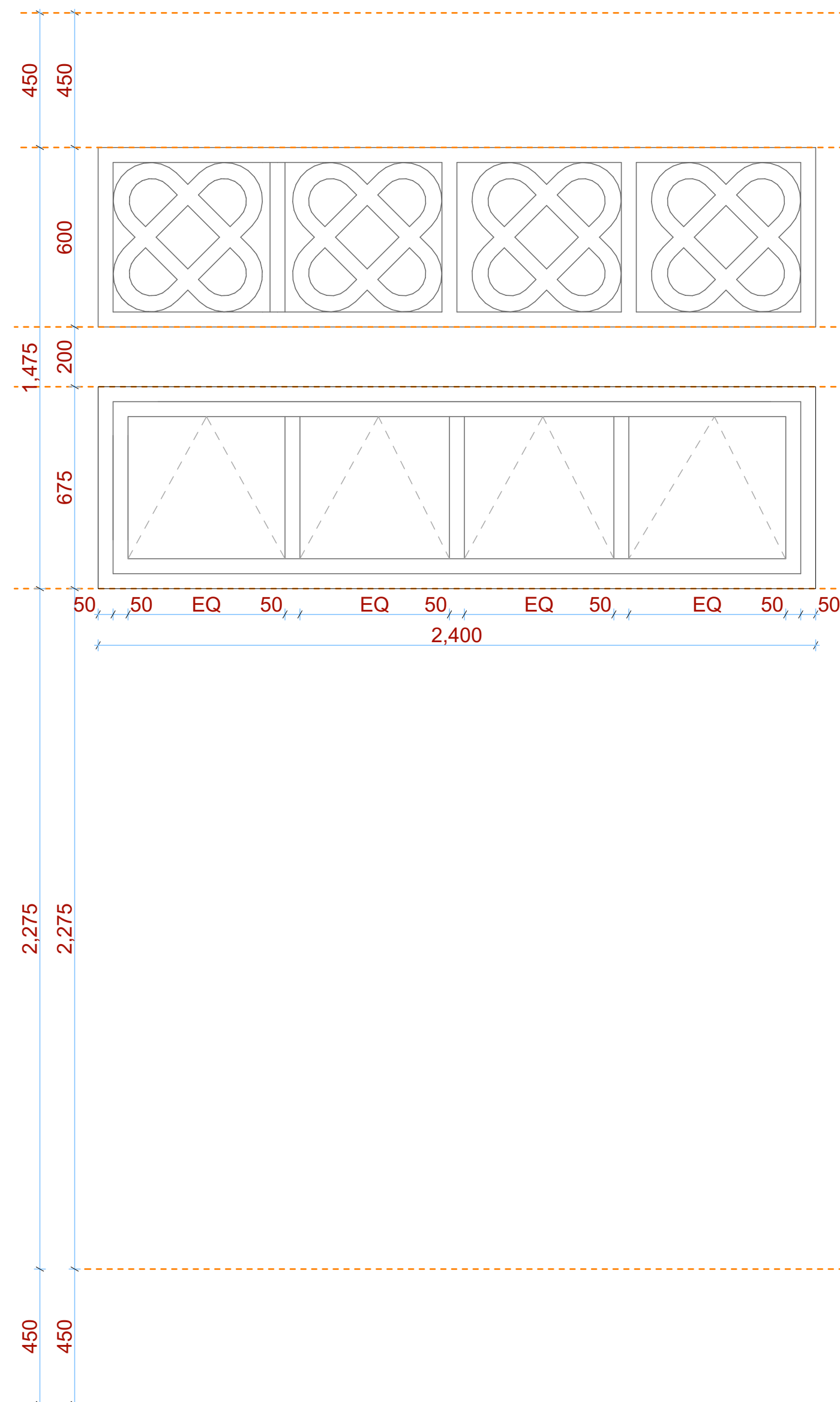
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# WINDOW DESIGN



## Detail



| NAME           | W-01  | W-02  | ARCH-01   |
|----------------|---|---|---|
| QUANTITY       | 5 NO  | 4 NO  | 3 NO  |
| LOCATION       | OPEN AIR MARKET   | OPEN AIR MARKET   | OPEN AIR MARKET   |
| SPECIFICATIONS | 600x600x50 Pre-cast concrete ventilation blocks on arch opening supplied and painted to architect approval. | 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 andinternally; panes fixed with 6mm thick one way glass fixed withbeadings. | 3750x 2000 mm arch opening moulded and painted to architect's approval. |

NOTES:

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3. All sections should be read as per the floor plan and all discrepancies must be notified immediately to the design 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

## CML

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

## STRUCTURA

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 drains or waste pipes. All bends and junctions to have a minimum of 100mm radius.
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 cast iron to comply to BS8541 table 6 and BS5255 cast iron to comply to BS8549 table 6 grade C except ones in the following circumstances:
  - a. All inspection chamber covers and frames shall be cast iron to comply to BS8549 table 6 grade C
  - b. Storm water drains to comply to BS5587
  - c. Minimum slopes to drains shall be 1%.
18. No chasing will be allowed in the slabs for pipes.
19. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
20. All testing of pipes must be completed before plastering.
21. All mechanical works must be co-ordinated with the electrical works. Any conflicts must be clarified before work commences.

## ELECTRICAL

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  
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 : **KILIFI CENTRAL FISH  
LANDING SITE  
KILIFI COUNTY**

**Client :**

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

Signature .....

subject

**WORKING DRAWINGS.**

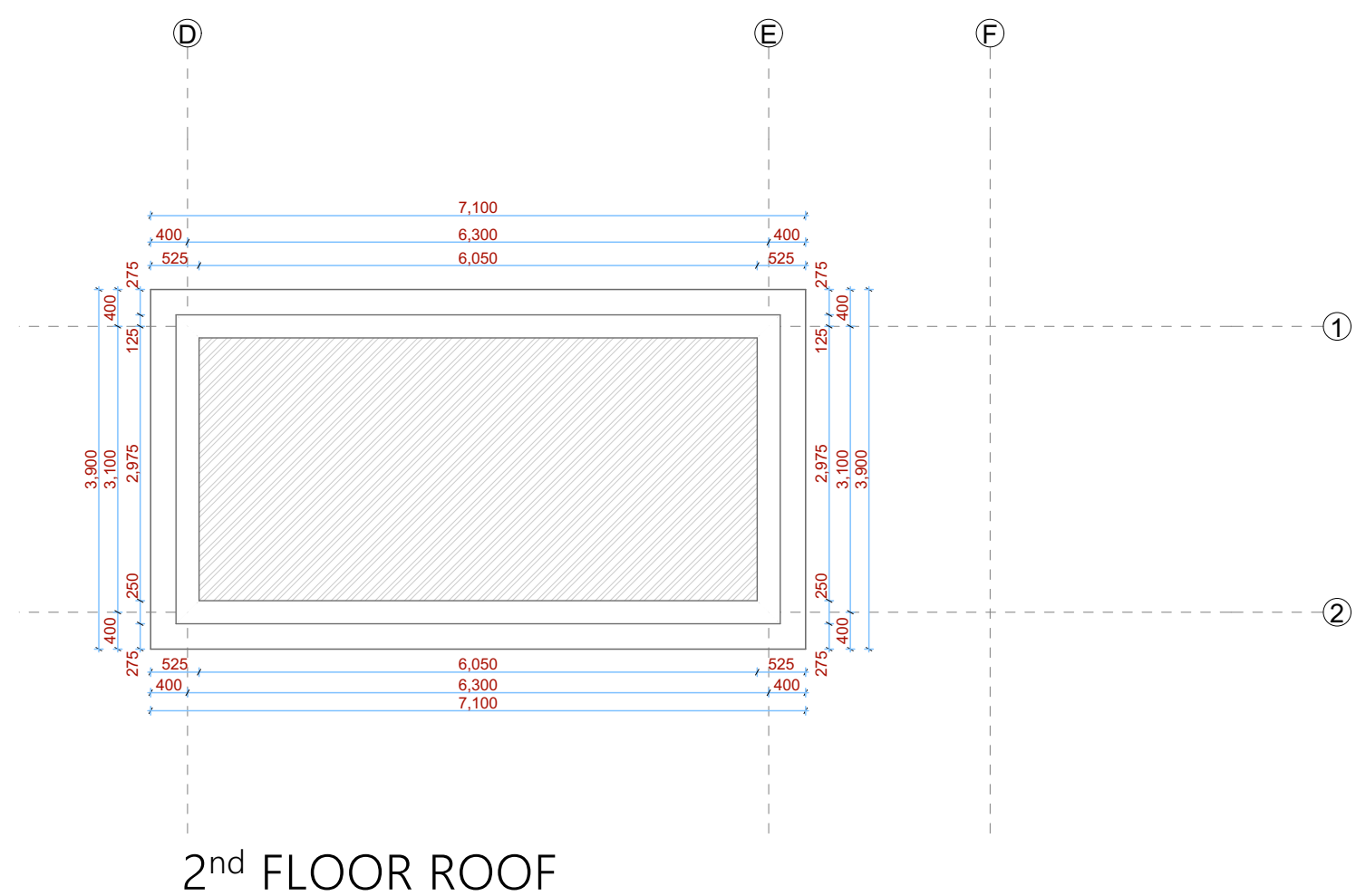
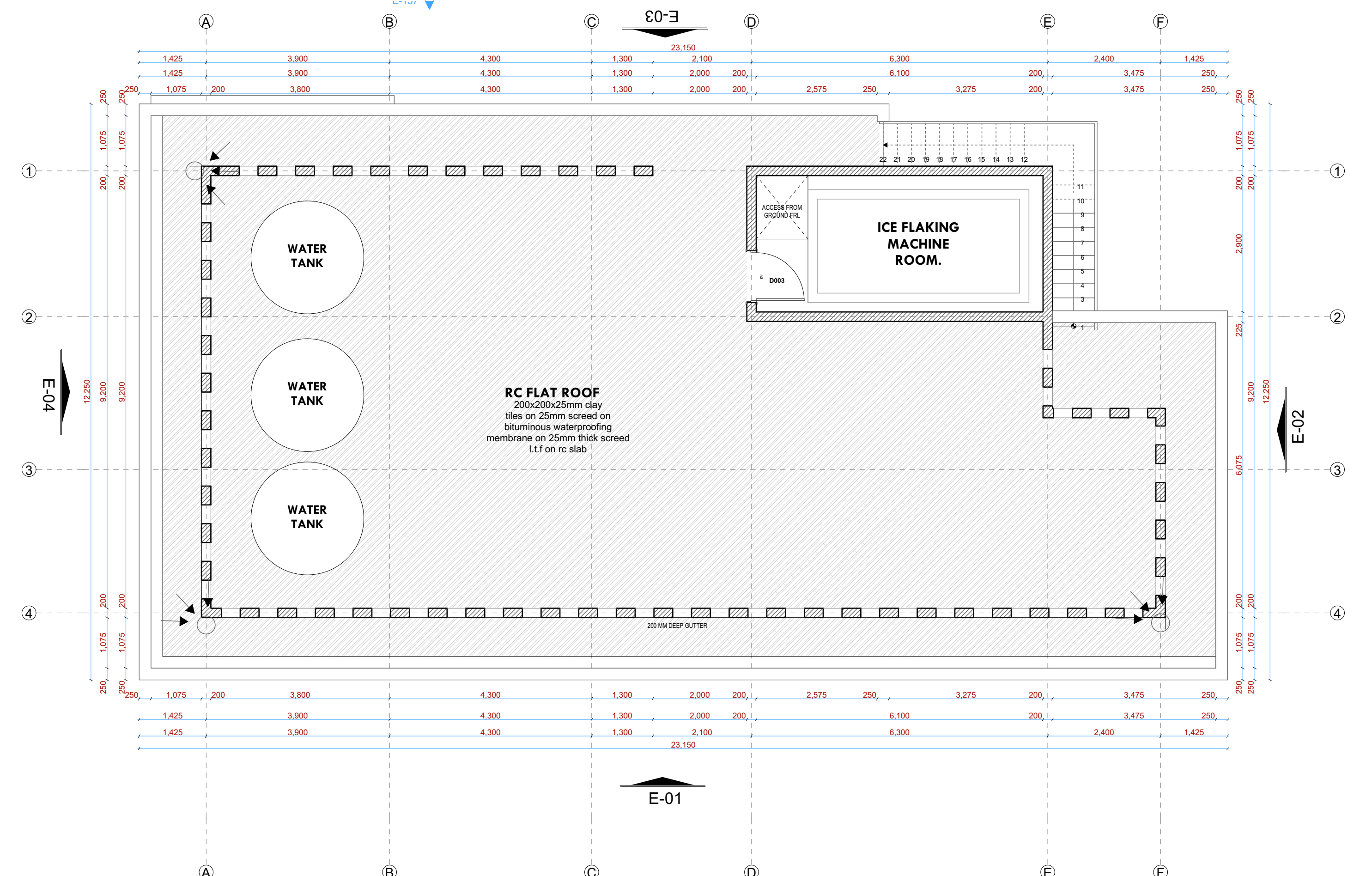
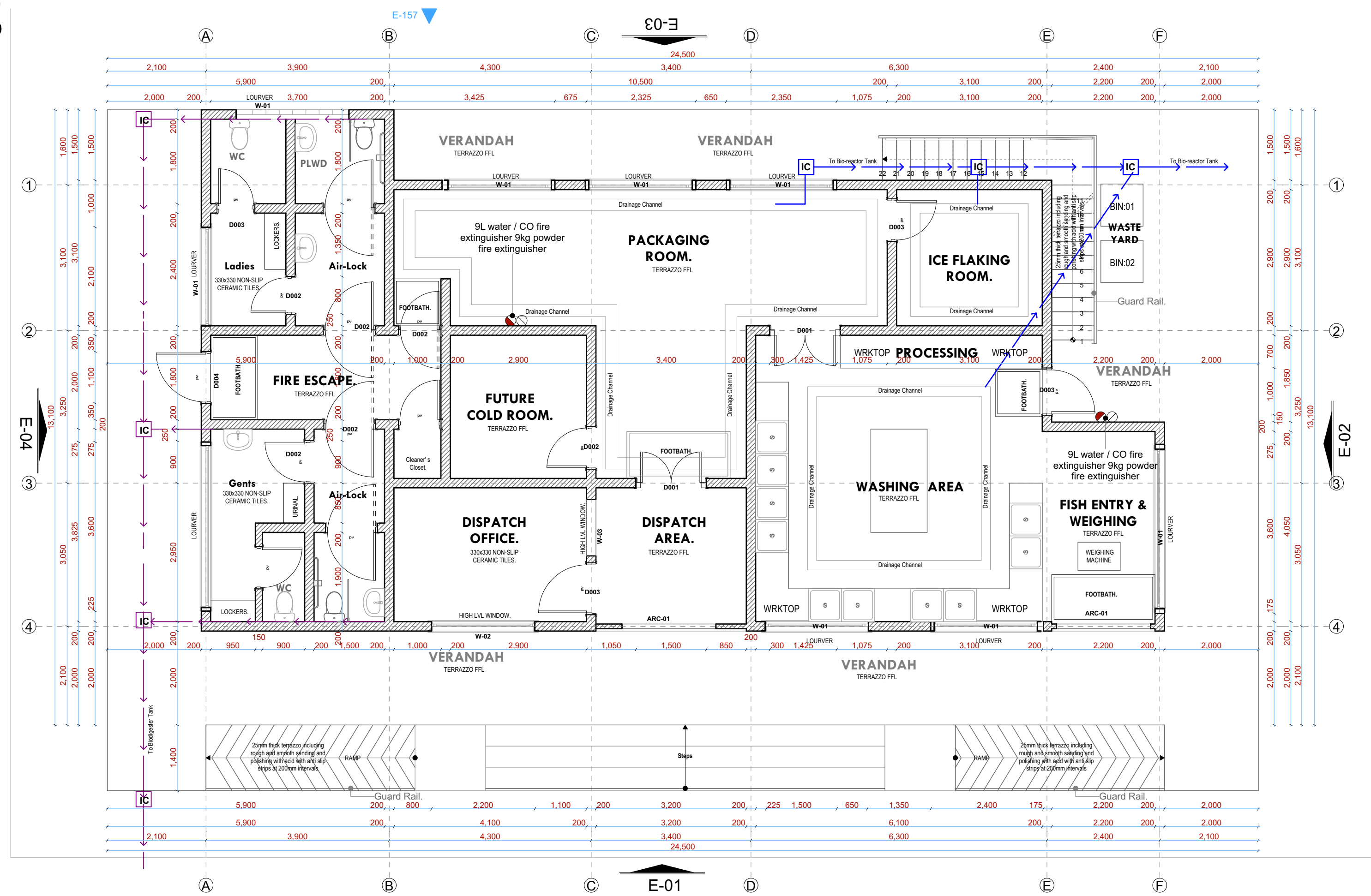
## Consultancy

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| own by:<br><b>MOMANYI</b><br>Arch. (Hons), | Checked by : -<br><b>F. TUNDULI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1552 ) | Checked by : -<br><b>J. MOMANYI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1122 ) |
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2<sup>nd</sup> FLOOR ROOF

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. Discrepancies 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 100kggaue polythene 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. Provide a service duct to 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 surround.
17. All underground drainage pipes and manholes shall be UPVC and comply to BS5 454 and 5255, cast iron to comply to BS8 497 table 6 grade C except ones in the driveway which shall comply to BS8 497 table 6 grade A.
18. All inspection chamber covers and frames shall be cast iron to comply to BS8 497 table 6 grade C except.
19. Storm water 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.
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 : **KILIFI CENTRAL FISH  
LANDING SITE  
KILIFI COUNTY**

Client:

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

Signature .....

Subject :

**WORKING DRAWINGS.**

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Consultancy :

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TEL: 020-884312/8  
Website :[www.arprimconsultants.com](http://www.arprimconsultants.com)

Drawn by:

**P. MOMANYI**  
B.Sc. Arch. (Hons).

Checked by : -

**F. TUNDULI**  
B. Arch. (Hons)

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**J. MOMANYI**  
B. Arch. (Hons)

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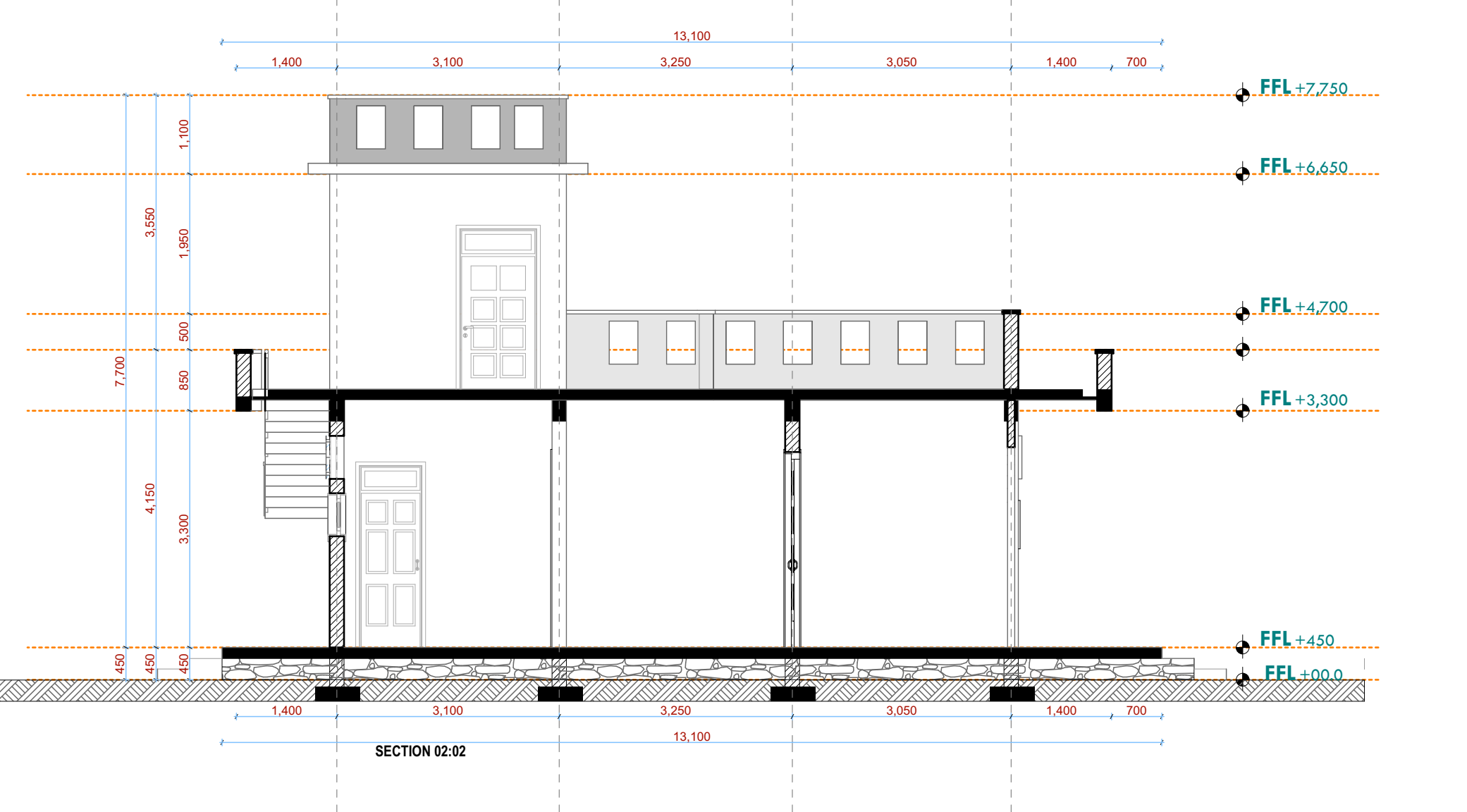
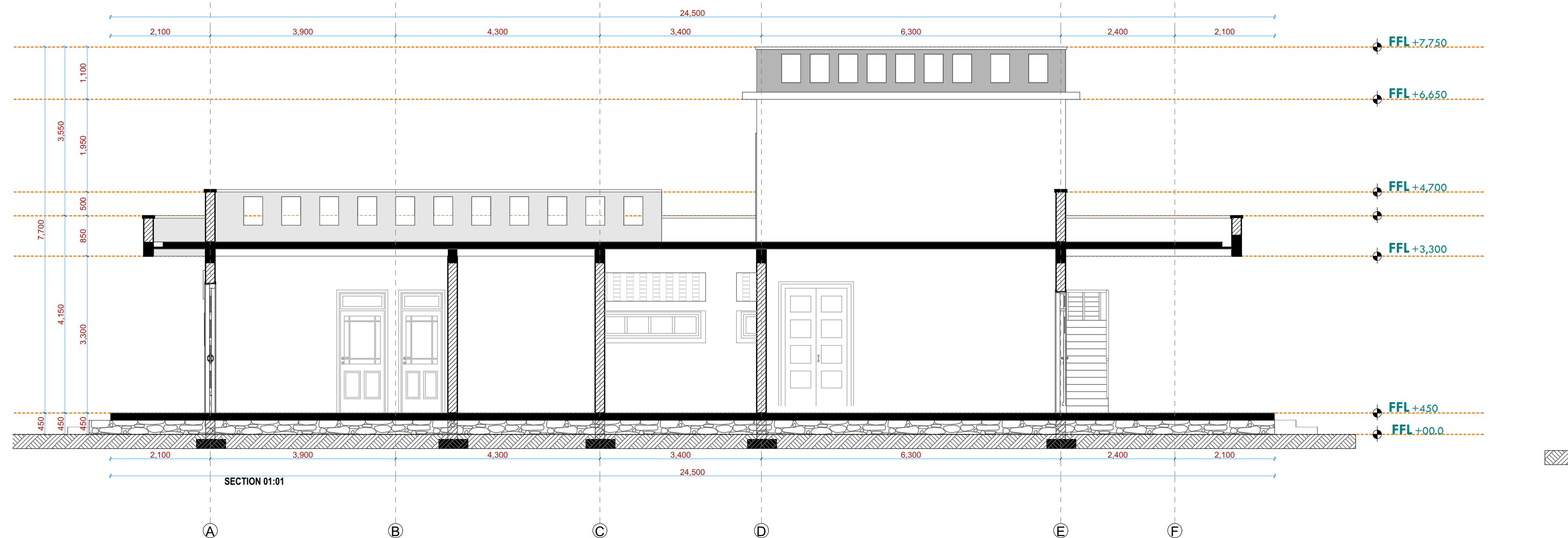
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10-001-006

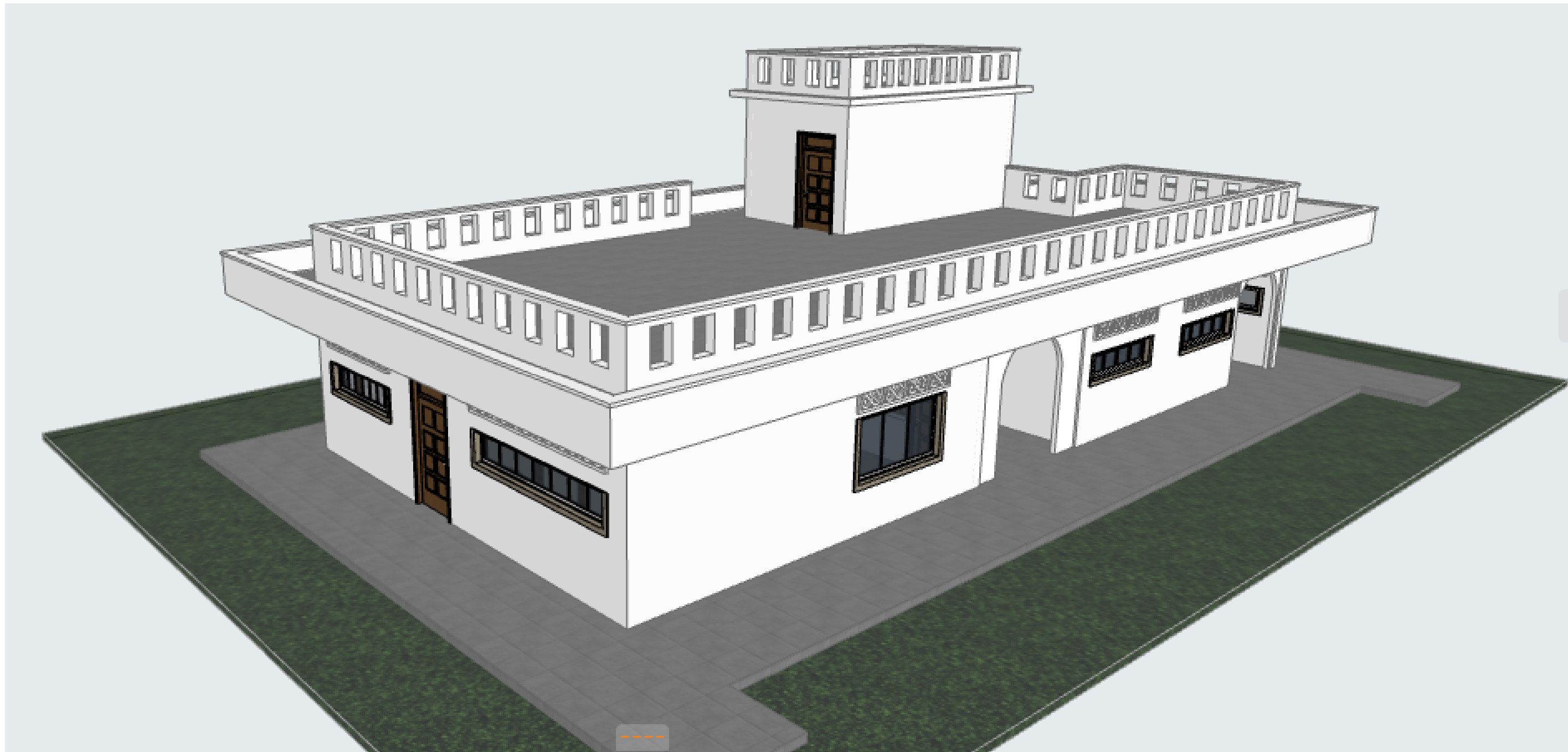
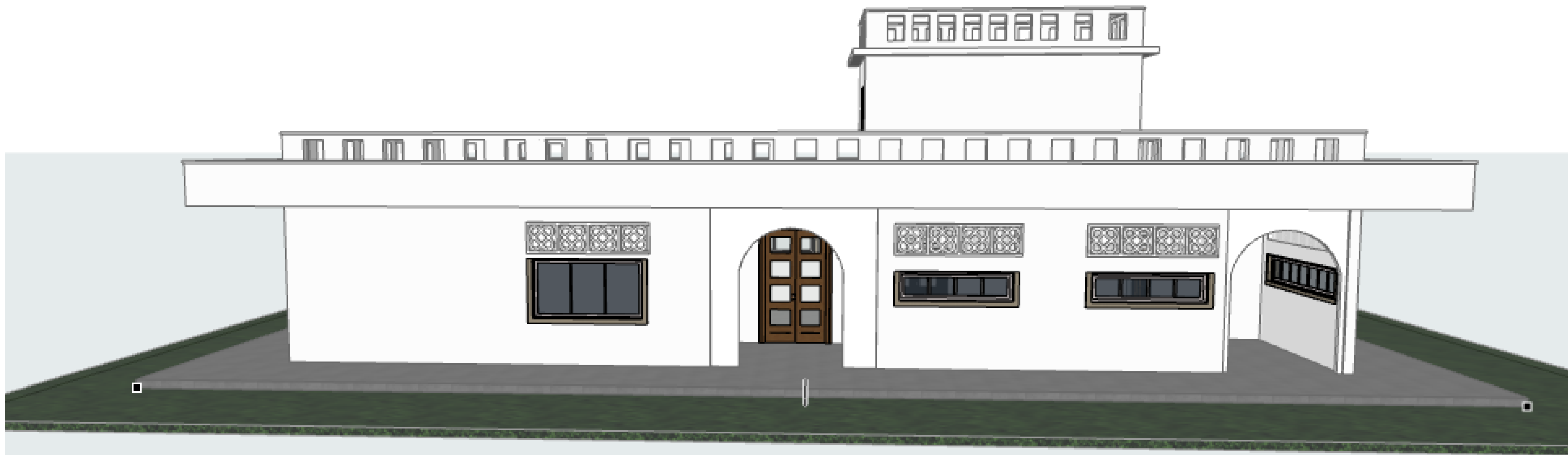


# MODERN FISH BANDA. ELEVATIONS & SECTIONS



## Scale 1:100 10-001-007

Scale 1:100 10-001-007



**10-001-008**



## 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 on construction 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 50mm stone dust blinding on compacted hard ground.
6. All work 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 approvals 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 encased in 150mm concrete surround.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS5 414 and 5255, cast iron to comply to BS 457 table 6 grade C except ones in the basement which shall comply to BS5 335.
18. All inspection chamber covers and frames shall be cast iron to comply to BS5 457 table 6 grade C except storm water drain shall comply to BS5 556.
19. Minimum slopes to drains shall be 1%.
20. No chasing will be allowed in the slabs for pipes.
21. All chasing 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. 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 3kg dry powder fire extinguishers to ME specifications

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

Plot L. R. No.: \_\_\_\_\_

---

Location : **KILIFI CENTRAL FISH  
LANDING SITE  
KILIFI COUNTY**

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

Signature .....

---

Subject :

**WORKING DRAWINGS.**

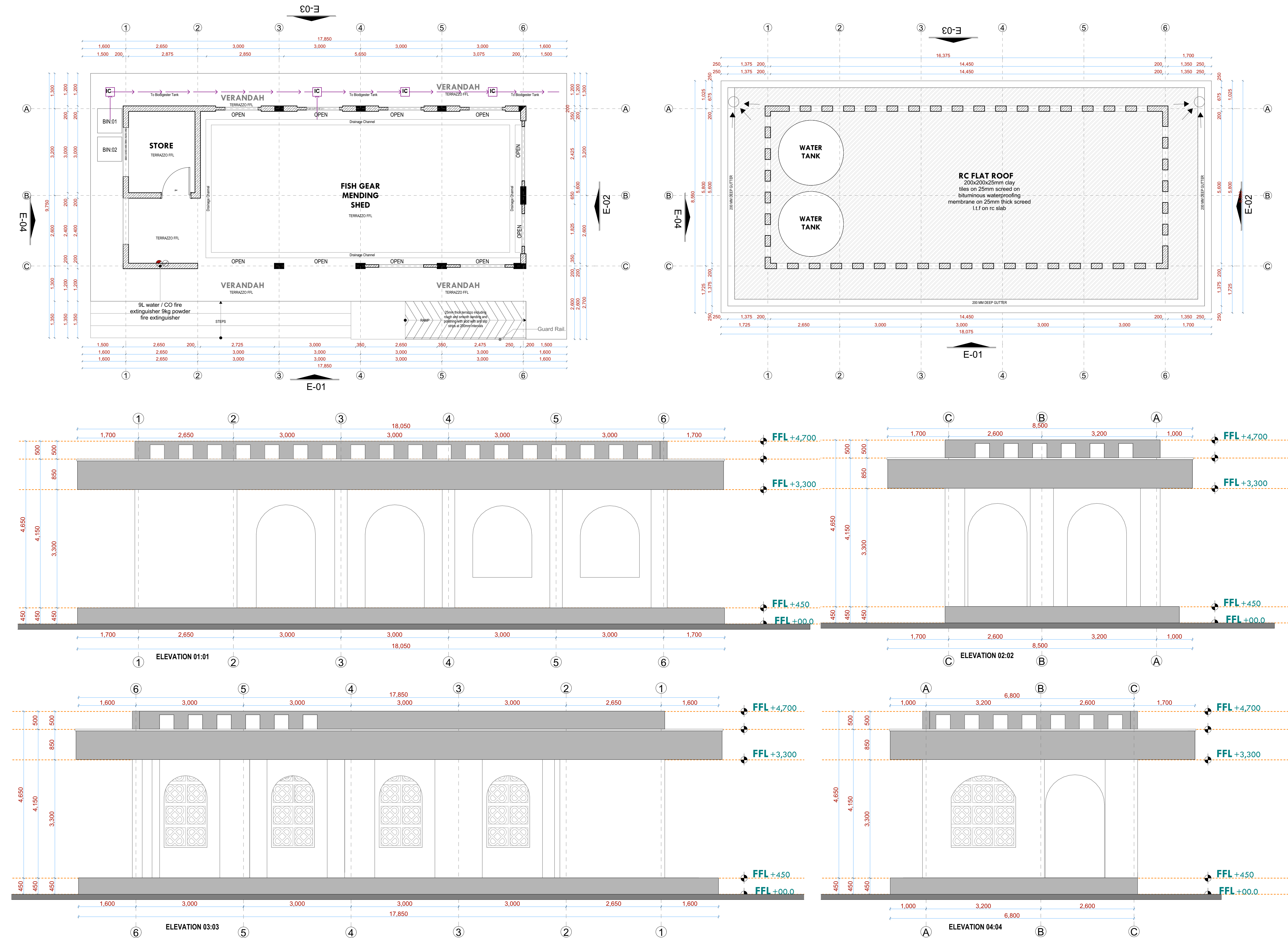
Consultancy :  
ARPRIM CONSULTANTS  
P.O BOX 12969-0040 NAIROBI  
TEL: 020-884312/8  
Website :[www.arprimconsultants.com](http://www.arprimconsultants.com)

|  |   |   |
|--|---|---|
| Drawn by:<br><b>P. MOMANYI</b><br>B. Arch. (Hons), | Checked by: -<br><b>F. TUNDULI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1552 ) | Checked by: -<br><b>J. MOMANYI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1122 ) |
|--|---|---|

|                |                          |
|----------------|--------------------------|
| Date: NOV 2023 | Job No . 2023/Nov/KILIFI |
| Scale 1:100    | <b>10-001-009</b>        |

| DOOR LEAF DESIGN   |   |
|--------------------|---|
|                    |   |
|                    |   |
| <b>NAME</b>        | <b>D003</b>   |
| <b>QUANTITY</b>    | <b>7 NO</b>   |
| <b>LOCATION</b>    | <b>FISH BANDA</b>   |
| <b>DESCRIPTION</b> | 900 x 2400x50mm thick mvule louvred Single leaf door comprising of 50x3mm louvres set at 45 degrees at 50mm centres , solid blocking for iron mongery (m/s) .                             |
| <b>NAME</b>        | <b>D001</b>   |
| <b>QUANTITY</b>    | <b>3 NO</b>   |
| <b>LOCATION</b>    | <b>FISH BANDA</b>   |
| <b>DESCRIPTION</b> | 1500 x 2400x50mm thick mvule louvred double leaf door comprising of 50x3mm louvres set at 45 degrees at 50mm centres , solid blocking for iron mongery (m/s) .                            |
| <b>NAME</b>        | <b>D002</b>   |
| <b>QUANTITY</b>    | <b>4 NO</b>   |
| <b>LOCATION</b>    | <b>FISH BANDA</b>   |
| <b>DESCRIPTION</b> | 1100 x 2400x50mm mvule panelled double acting door: comprised of 200 x 50mm thick stiles, top and middle rail: 200 x 50mm thick bottom rail ;solid blocking to iron mongery (m/s) to door |
| <b>NAME</b>        | <b>D004</b>   |
| <b>QUANTITY</b>    | <b>1 NO</b>   |
| <b>LOCATION</b>    | <b>FISH BANDA</b>   |
| <b>DESCRIPTION</b> | 1100 x 2400x50mm fire rated door to supplier details;solid blocking to iron mongery (m/s) to door.  |

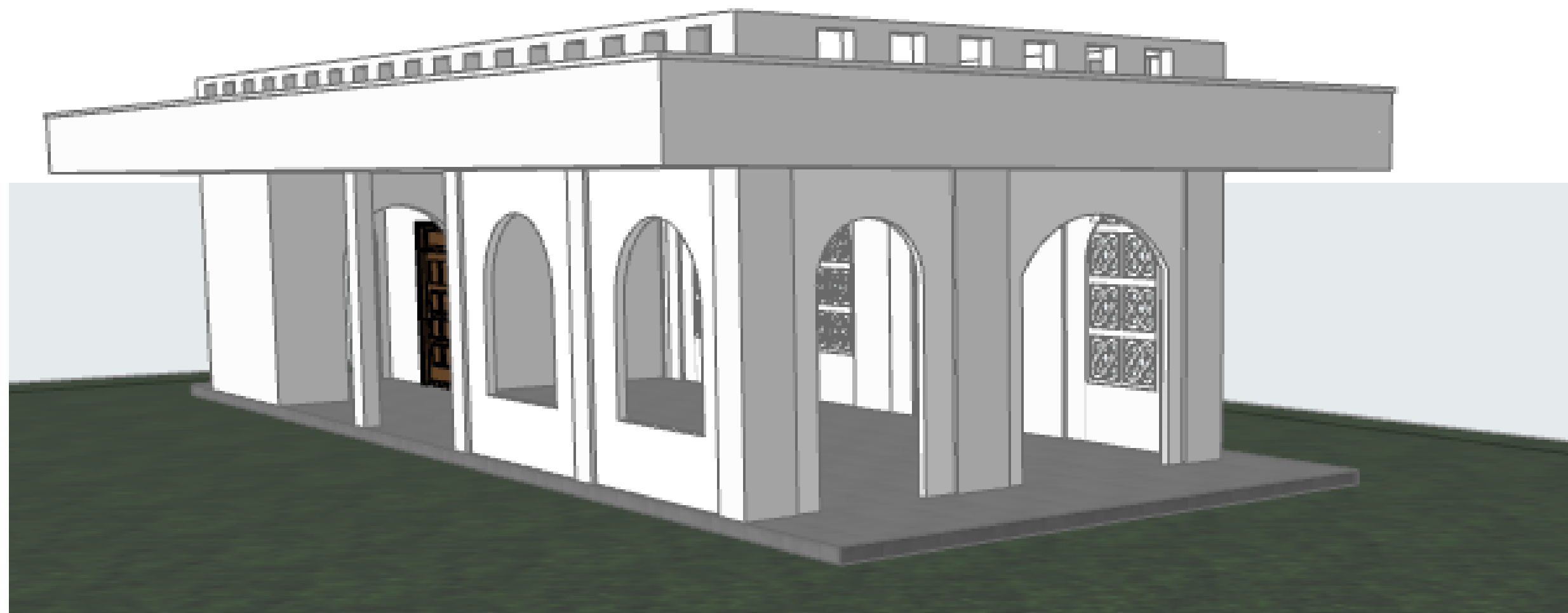
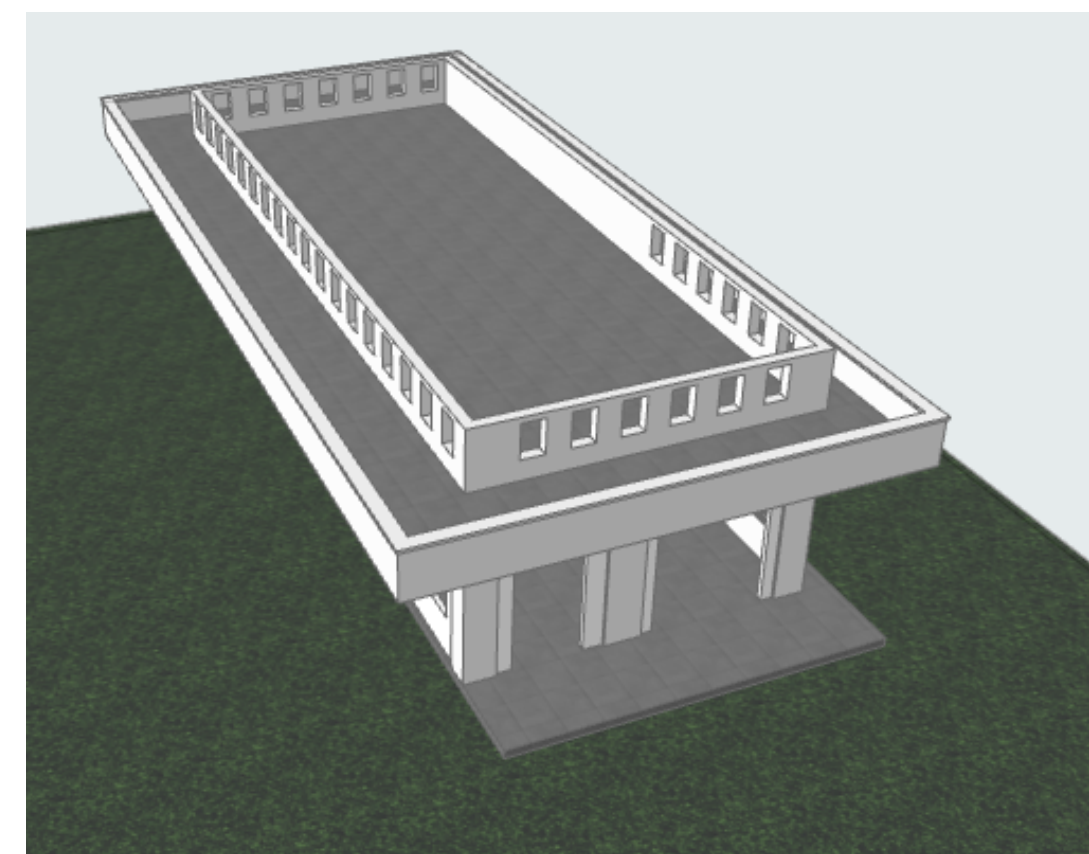
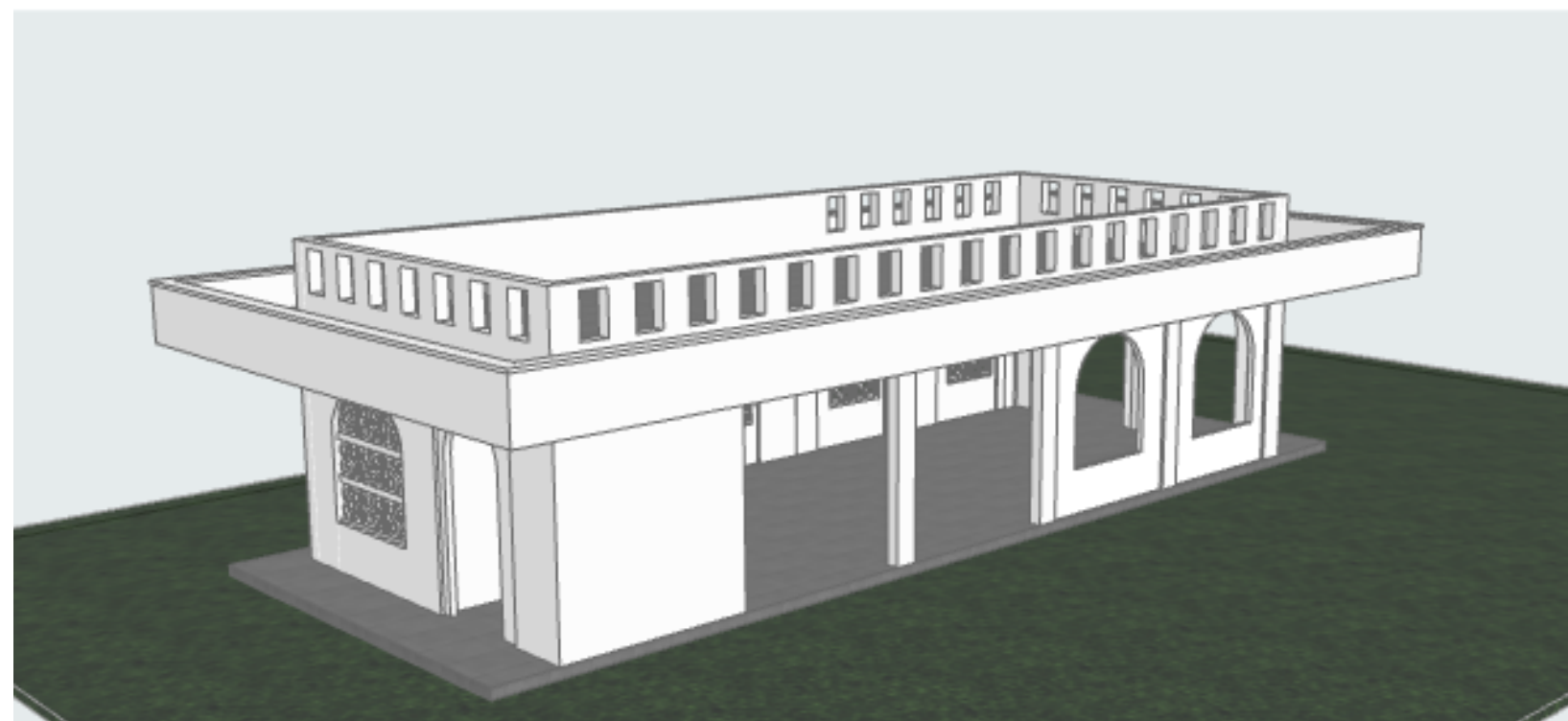
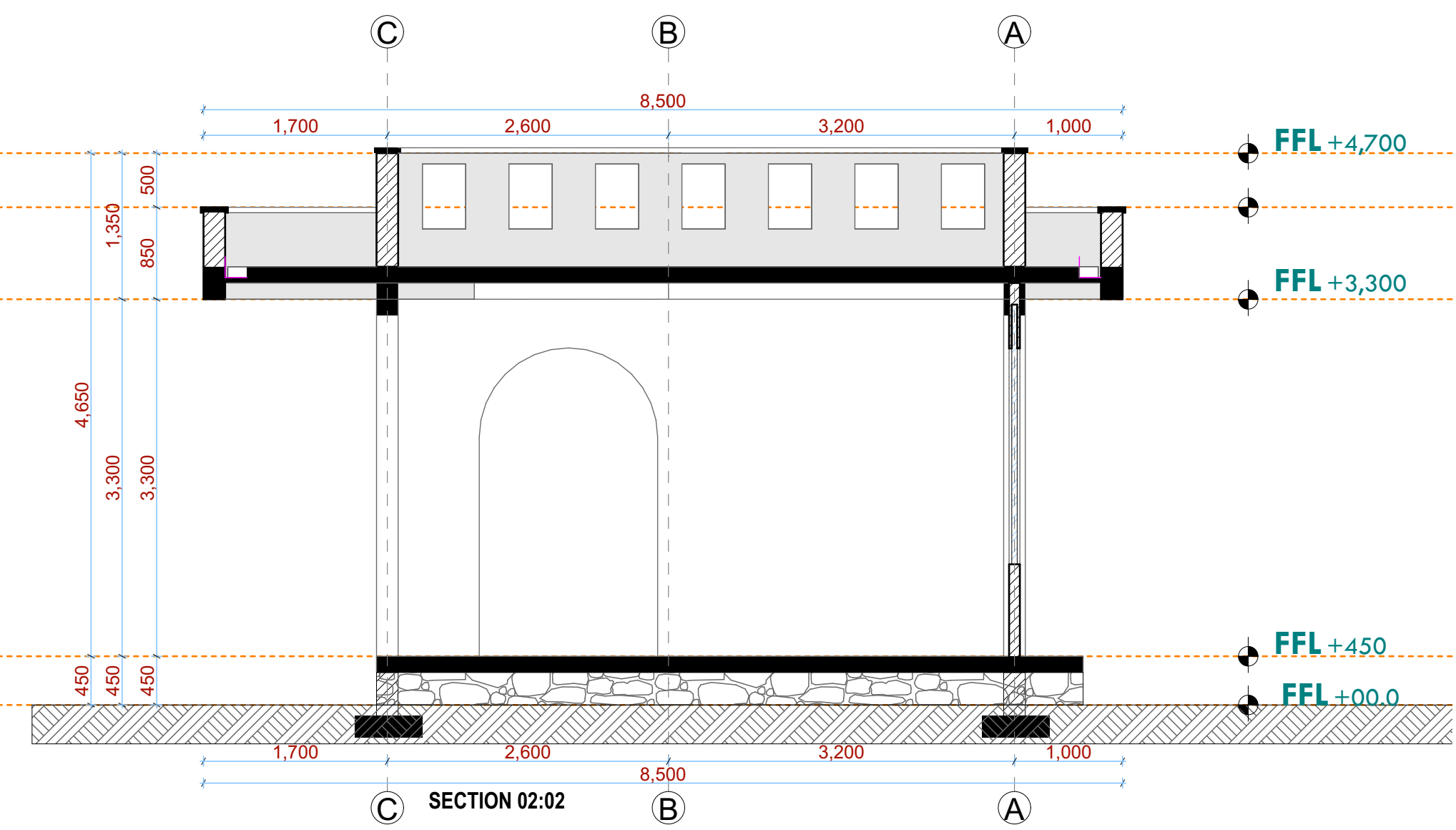
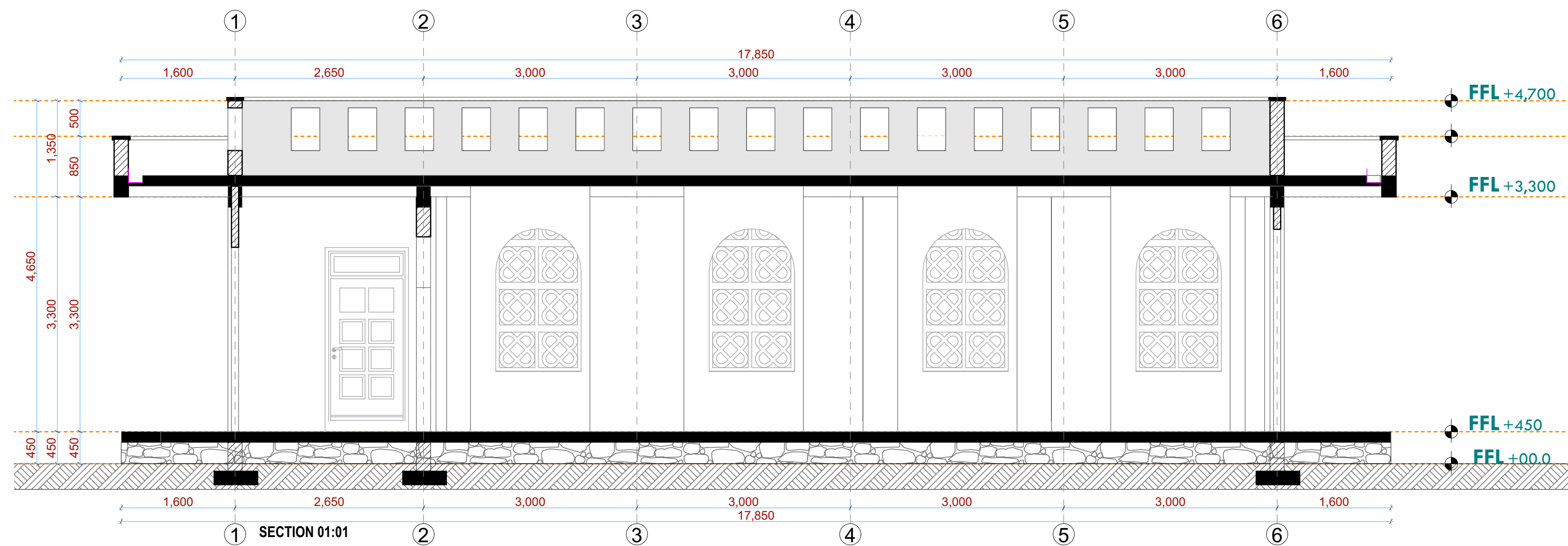
10.D FISH GEAR MENDING SHED.  
PLANS & ELEVATIONS



|   |                            |                            |
|---|----------------------------|----------------------------|
| 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 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 SVP's 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 BSS 4514 and 5255. cast iron to comply to BSS 497 table 6 grade C except ones in the driveway which shall comply to BSS 556. |                            |                            |
| 18. All inspection chamber covers and frames shall be cast iron to comply to BSS 497 table 6 grade C except   |                            |                            |
| 19. Storm water drain shall comply to BSS 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. 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   |                            |                            |
| Project :   |                            |                            |
| PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT  |                            |                            |
| Plot L. R. No.:   |                            |                            |
| Location :  |                            |                            |
| KILIFI CENTRAL FISH LANDING SITE KILIFI COUNTY  |                            |                            |
| 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:   | Checked by :-              | Checked by :-              |
| P. MOMANYI B. Arch. (Hons).   | F. TUNDUJI B. Arch. (Hons) | J. MOMANYI B. Arch. (Hons) |
|   | M. Arch. (reg. No.A1552)   | M. Arch. (reg. No.A1122)   |
| Date: NOV 2023  | Job No. : 2023/Nov/KILIFI  |                            |
| Scale 1:100   | 10-001-010                 |                            |



10.D



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 dimensions 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
  5. All slab to grade to be poured on 1000gaugge polythene 50mm stone dust blinding on compacted hardcore.
  6. All walls under slab and around external foundation to be treated for termite control.
  7. Window cills must be finished before internal plastering

STRUCTURAL  
EQUATIONS

9. All RC works to Structural Engineer's details.
  10. Depth of foundation to be determined on site by SLP approval.
  11. All walls less than 200mm thick to be reinforced with hoop iron at every alternate course.
- Mechanical**
12. All plumbing and drainages to comply with the relevant approved 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 drains 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, downpipes, rainwater pipes and downpipes to be encased in 150mm concrete surround.
  17. All underground foul and waste drain pipes shall comply with BS 5473 part 4 grade C except once in the driveway which shall comply to BS 5473 part 4 grade D.
  18. The section between the manholes and frames shall be cast iron to comply to BS 5473 part 4 grade C except once in the driveway which shall comply to BS 5473 part 4 grade D.
  19. Storm water drain shall comply to BS 5473 part 4 grade D.
  20. Minimum slopes to drains shall be 1%.
  21. No chasing work to be done in the slabs for pipes.
  22. Sleeves will be allowed in the slabs with the written approval of the Structural Engineer.
  23. 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 : **KILIFI CENTRAL FISH  
LANDING SITE  
KILIFI COUNTY**

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](http://www.arprimconsultants.com)

|  |  |  |
|--|--|--|
| Drawn by:<br><b>J. MOMANYI</b><br>B. Arch. (Hons). | Checked by :-<br><b>F. TUNDULI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1552) | Checked by :-<br><b>J. MOMANYI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1122) |
|--|--|--|

|                |                          |
|----------------|--------------------------|
| Rate: NOV 2023 | Job No . 2023/Nov/KILIFI |
|----------------|--------------------------|

|             |            |
|-------------|------------|
| Scale 1:100 | 10-001-011 |
|-------------|------------|



# DOOR LEAF DESIGN

| DOOR LEAF DESIGN |   |  |   |   |  |
|------------------|---|--|---|---|--|
|                  |   |  |   |   |  |
| NAME             | D001  | W-01   | ARCH-01   | W-01  |  |
| QUANTITY         | 1 NO  | 2 NO   | 3 NO  | 5 NO  |  |
| LOCATION         | FISH GEAR MENDING SHED  | FISH GEAR MENDING SHED   | FISH GEAR MENDING SHED  | FISH GEAR MENDING SHED  |  |
| DESCRIPTION      | 900 x 2400x50mm thick mvule louvred Single leaf door comprising of 50x3mm louvres set at 45 degrees at 50mm centres , solid blocking for iron mongery (m/s) . | 1500 x 2400x50mm thick mvule louvred double leaf door comprising of 50x3mm louvres set at 45 degrees at 50mm centres , solid blocking for iron mongery (m/s) . | 2400x 1650 mm arch opening moulded and painted to architect's approval. | 600x600x50 Pre-cast concrete ventilation blocks on arch opening supplied and painted to architect approval. |  |

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

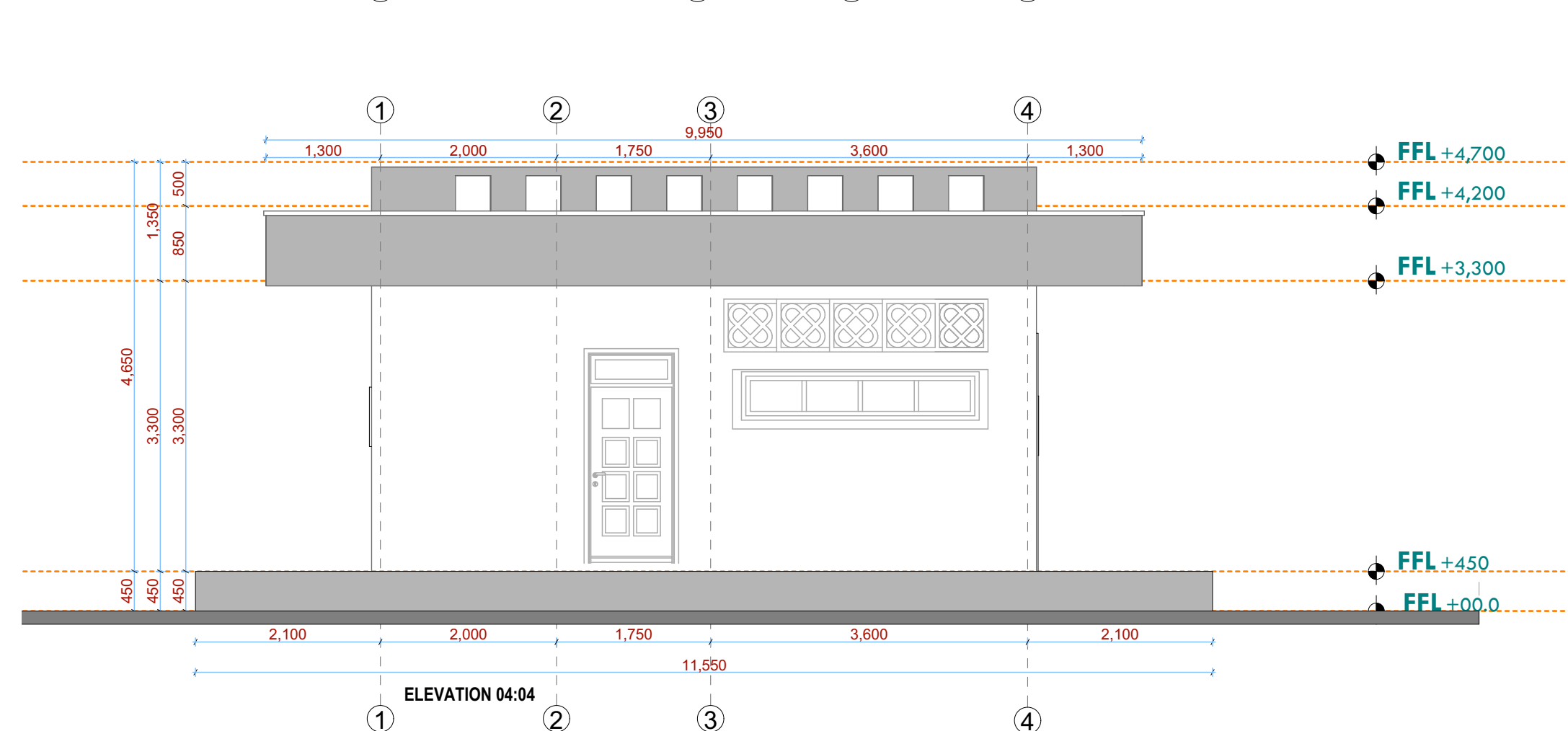
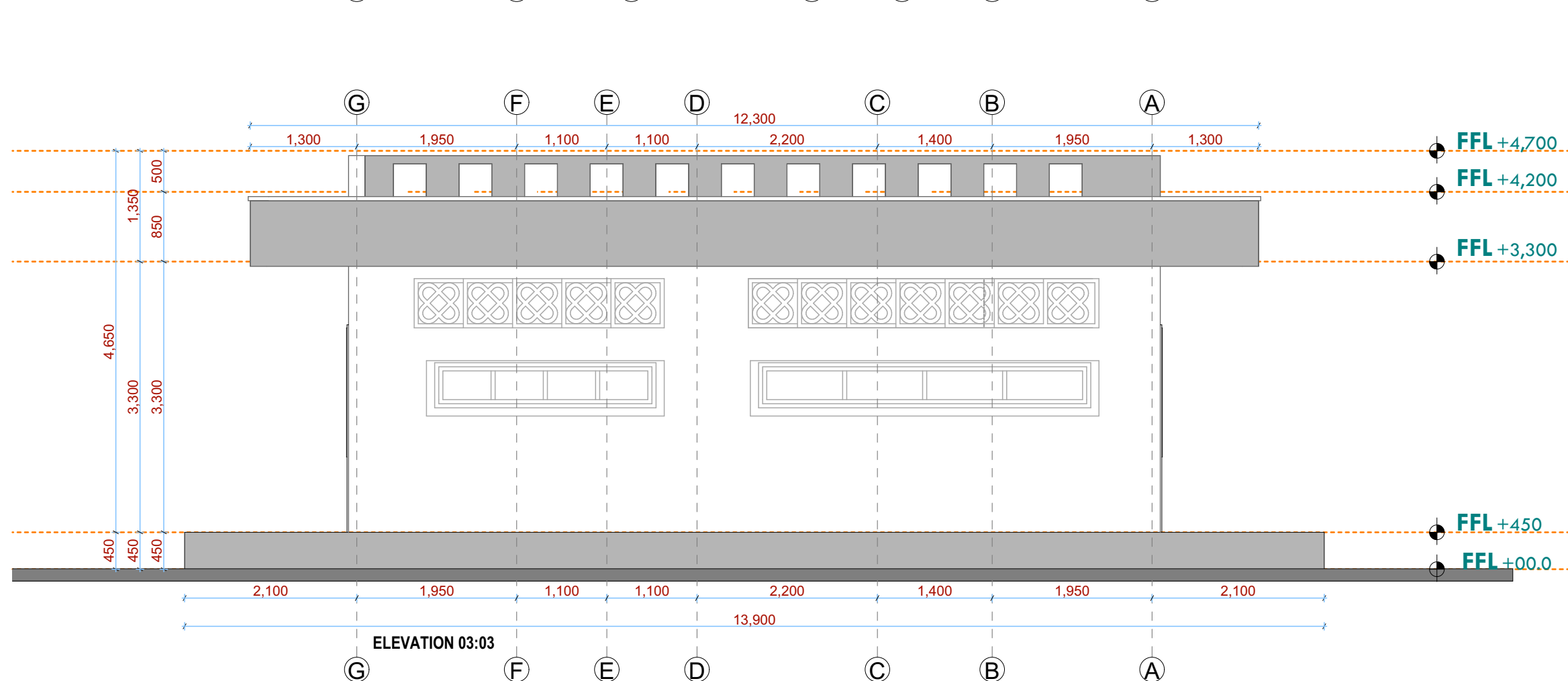
29. provide heat and smoke detectors in each room

30. provide 9kg. dry powder fire extinguishers to ME specifications

|             |                   |
|-------------|-------------------|
| Scale 1:100 | <b>10-001-012</b> |
|-------------|-------------------|



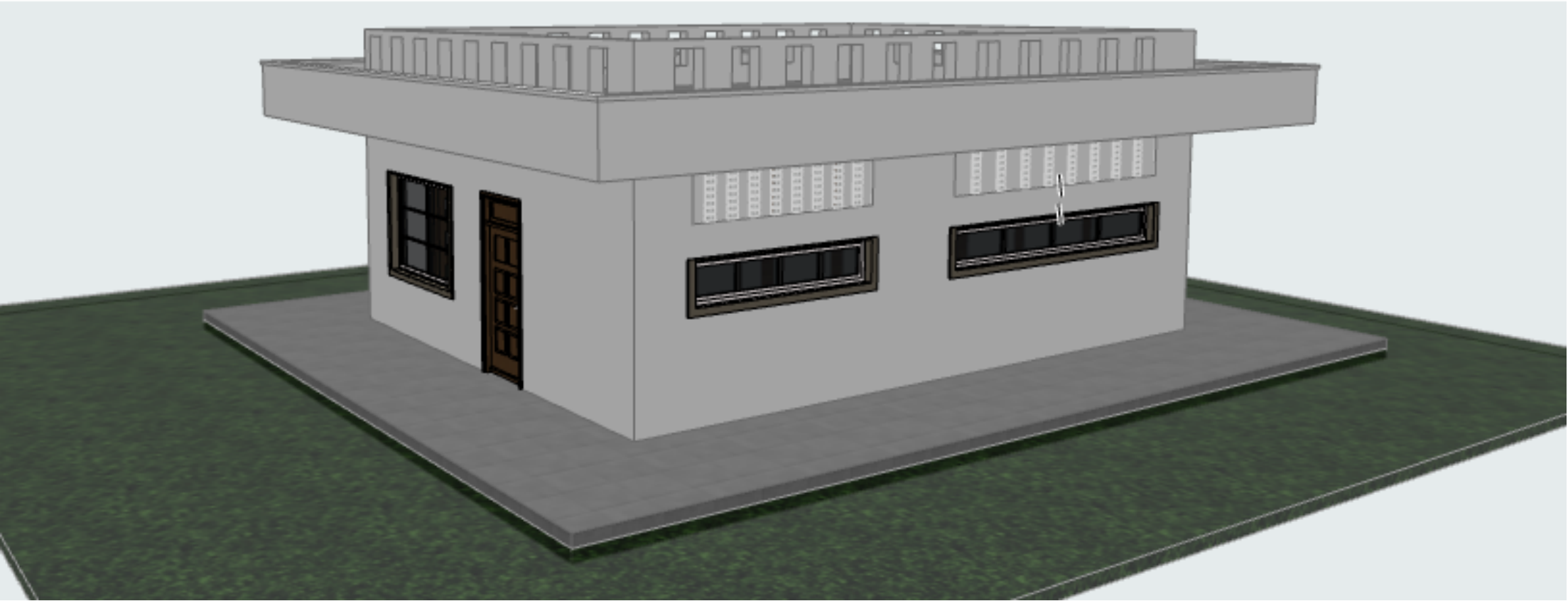
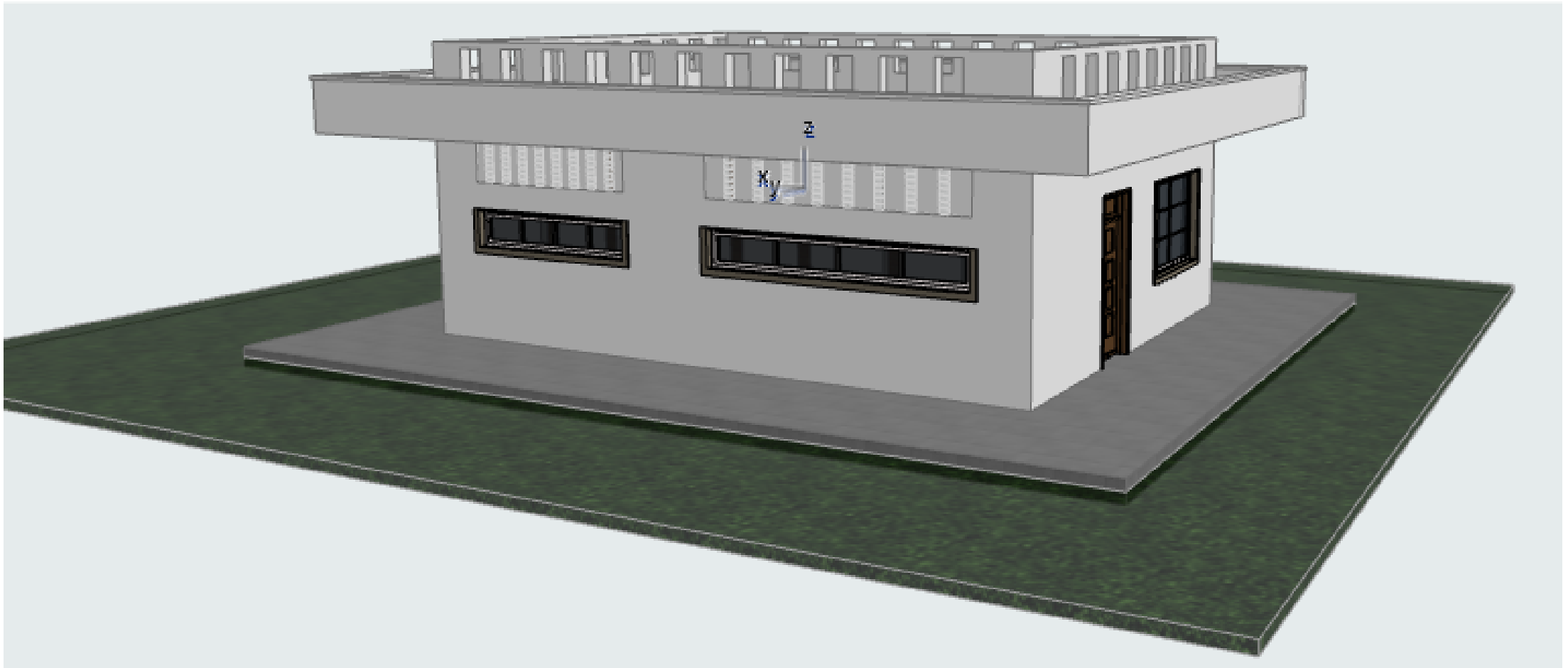
# FISH GEAR STORE AND ABLUTION BLOCK. PLAN & ELEVATIONS



|             |                   |
|-------------|-------------------|
| Scale 1:100 | <b>10-001-013</b> |
|-------------|-------------------|



# FISH GEAR STORE AND ABLUTION BLOCK. SECTIONS & 3D'S



### STRUCTURAL

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

11. 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 governing local authority specifications.

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

14. Deep seal or anti-vac to all fittings connected to the SVP's or waste 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 surround.

17. All underground foul and waste drain pipes shall be UPVC and comply to BS8 4514 and 5255. cast iron to comply to BS8 497 table 6 grade C except ones in the driveway which shall comply to BS8 556.

18. All inspection chamber covers and frames shall be cast iron to comply to BS8 497 table 6 grade C except

19. Storm water drain shall comply to BS8 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. Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors

27. Provide 150mm water tank with automatic electric booster pump for ring main

28. provide automatic pump button fire alarm system

29. provide heat and smoke detectors in each room

30. provide 9kg. dry powder fire extinguishers to ME specifications.

[illegible]

Plot L. R. No.: \_\_\_\_\_

---

Location : **KILIFI CENTRAL FISH  
LANDING SITE  
KILIFI COUNTY**

Signature .....

---

Subject :

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

|  |   |   |
|--|---|---|
| Drawn by:<br><b>J. MOMANYI</b><br>B. Arch. (Hons), | Checked by: -<br><b>F. TUNDULI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1552 ) | Checked by: -<br><b>J. MOMANYI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1122 ) |
|--|---|---|

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

Scale 1:100

**10-001-014**



## DOOR LEAF DESIGN

## DOOR LEAF DESIGN

[illegible]

Plot L. R. No.:

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Location : **KILIFI CENTRAL FISH  
LANDING SITE  
KILIFI COUNTY**

Signature .....

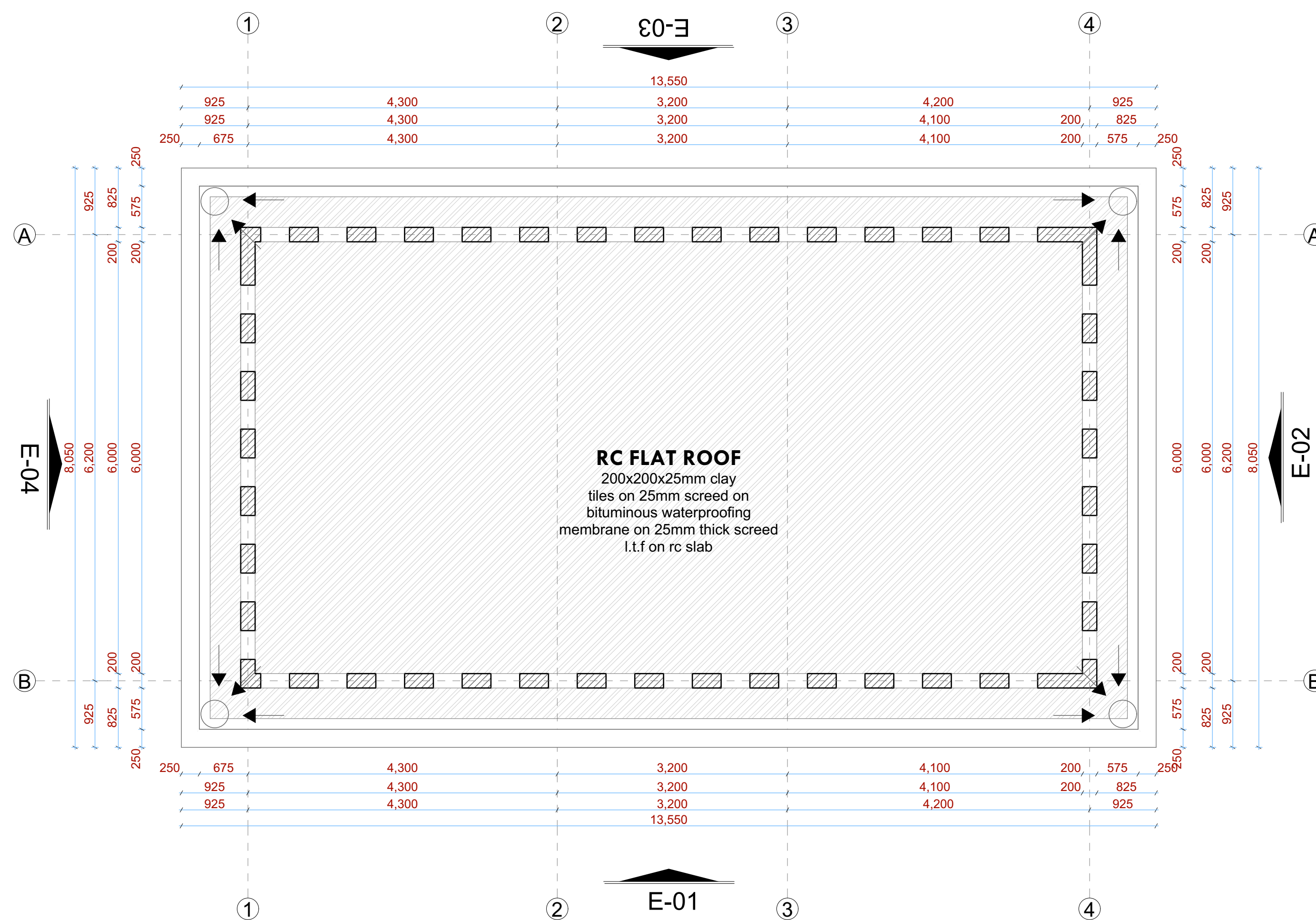
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Subject :

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

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

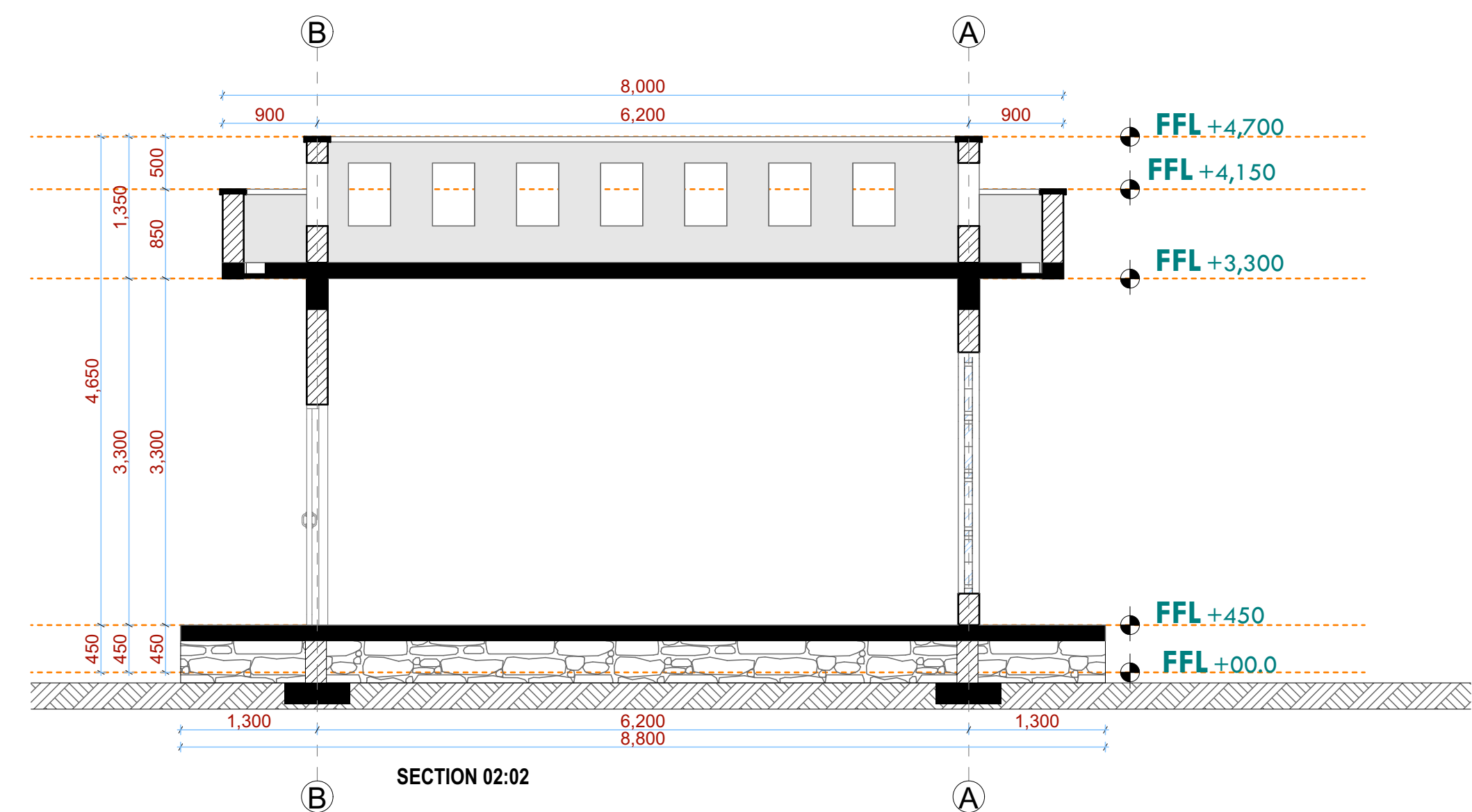
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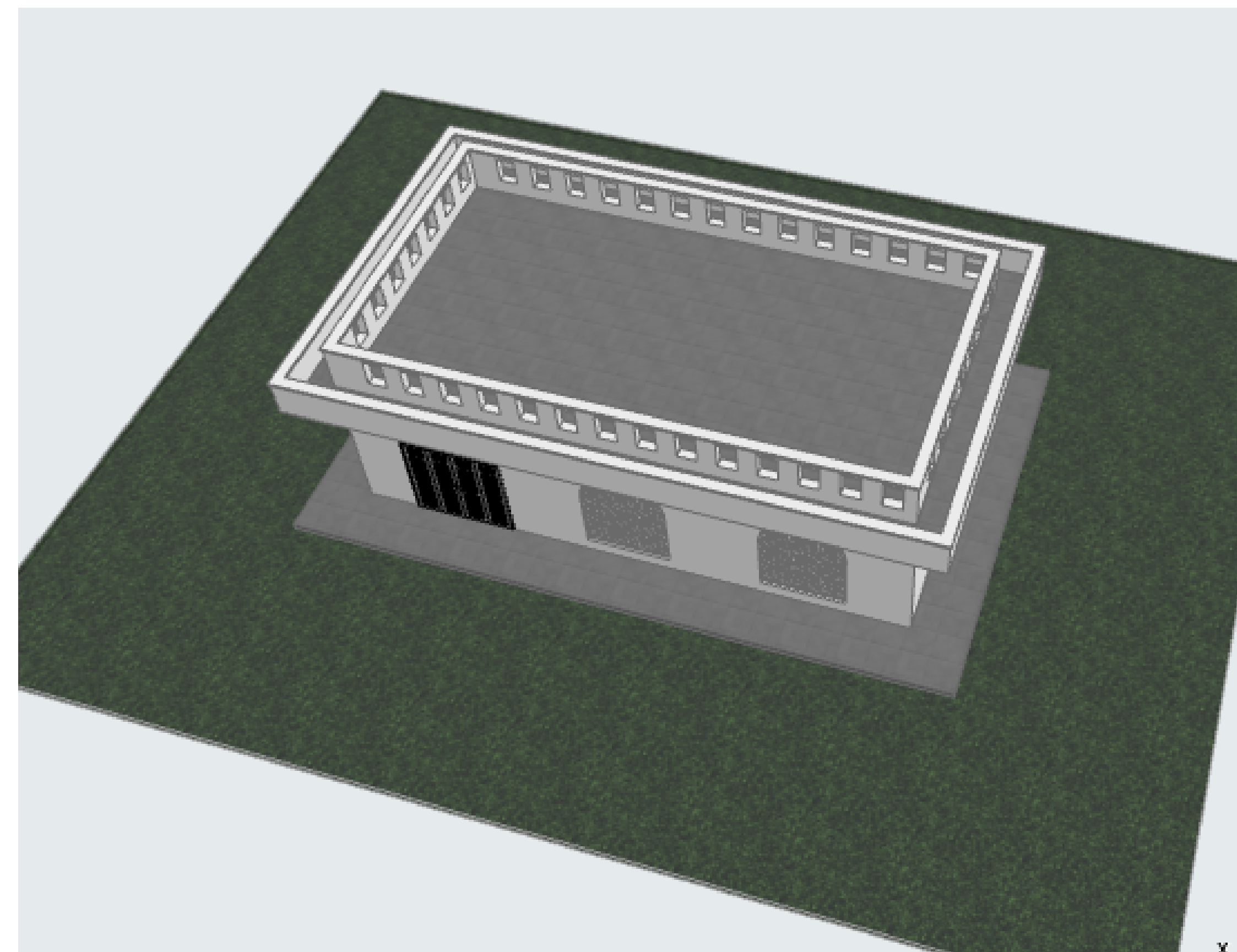
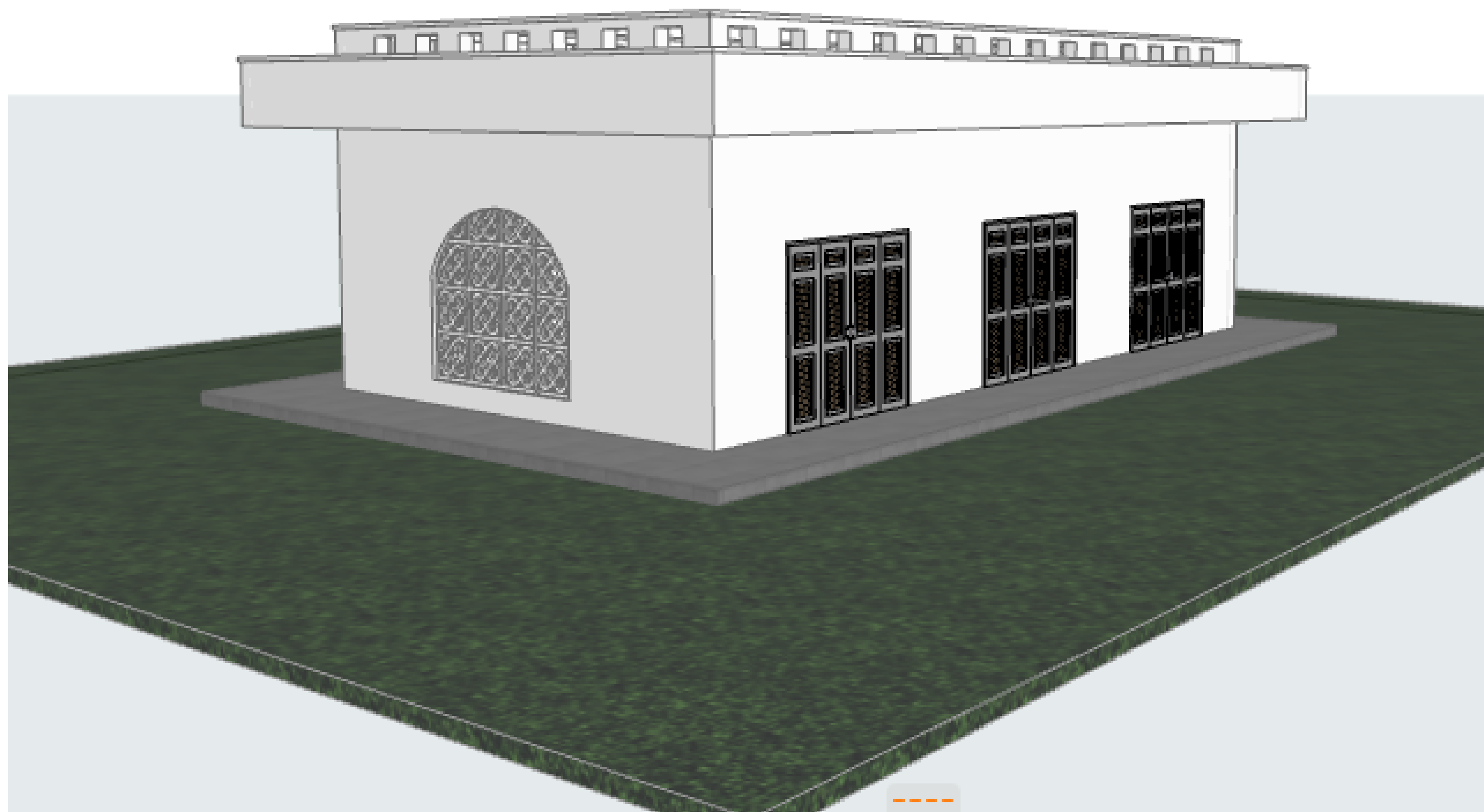
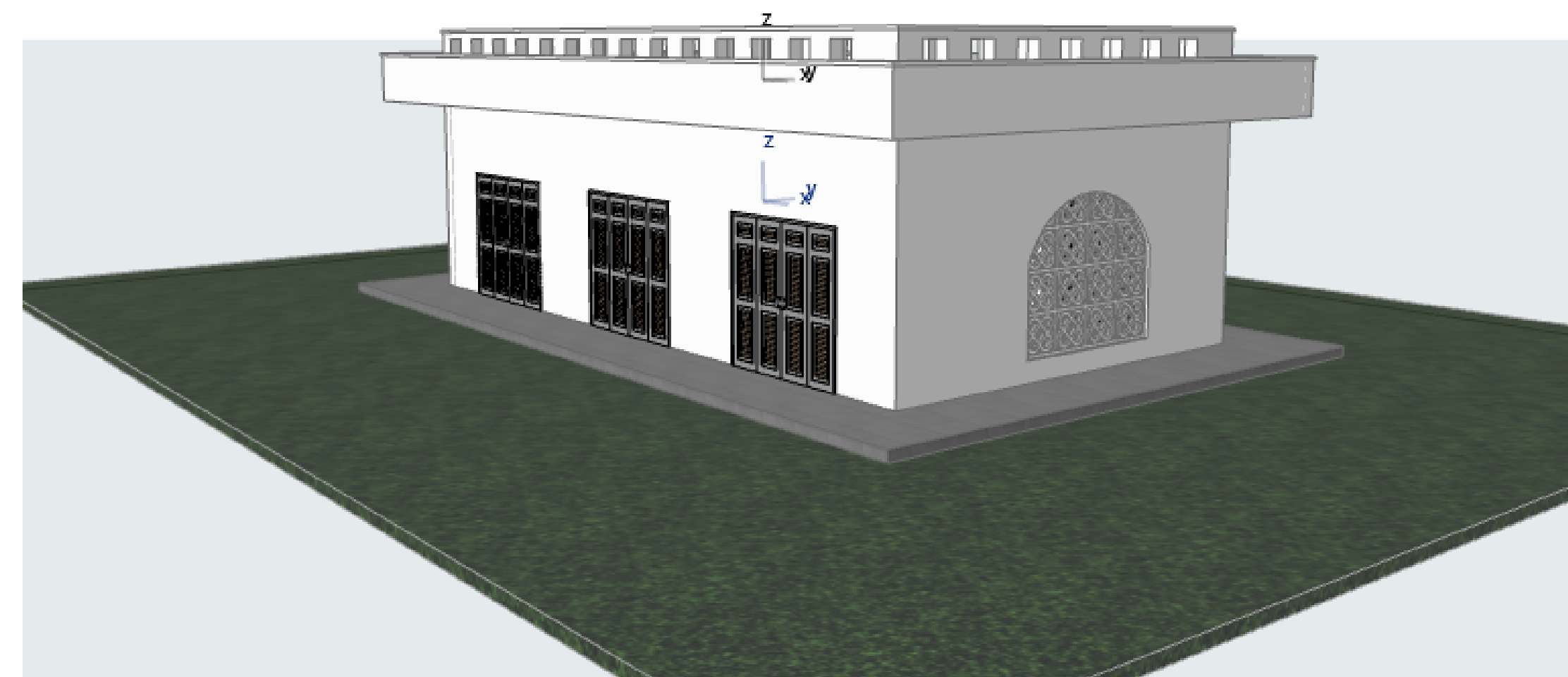
26. Instal water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
27. Provide underground water tank with automatic electric booster pump for ring main
28. provide automatic push button fire alarm system
29. provide heat and smoke detectors in each room
30. provide 9kg. dry powder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

|             |                   |
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| Scale 1:100 | <b>10-001-016</b> |
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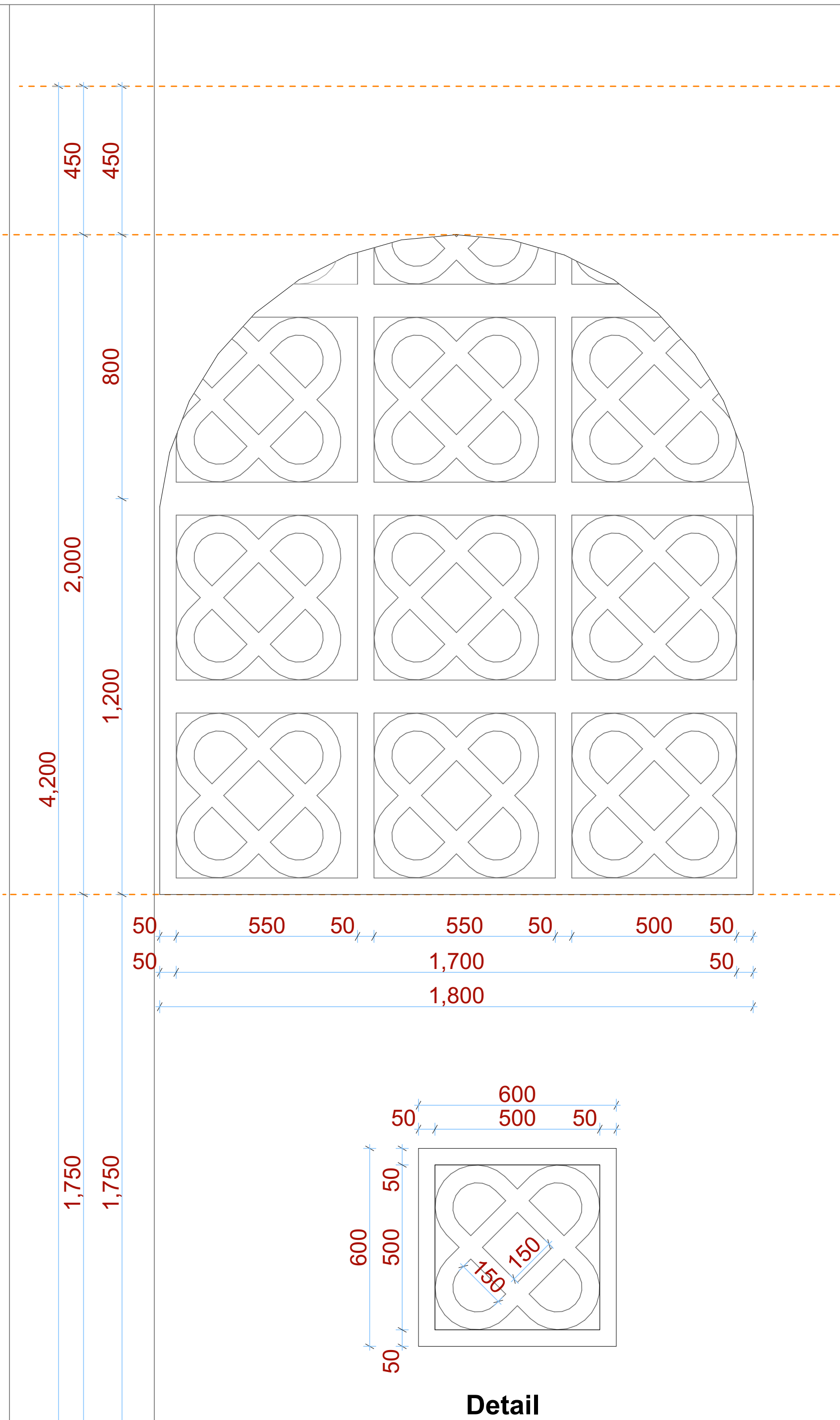
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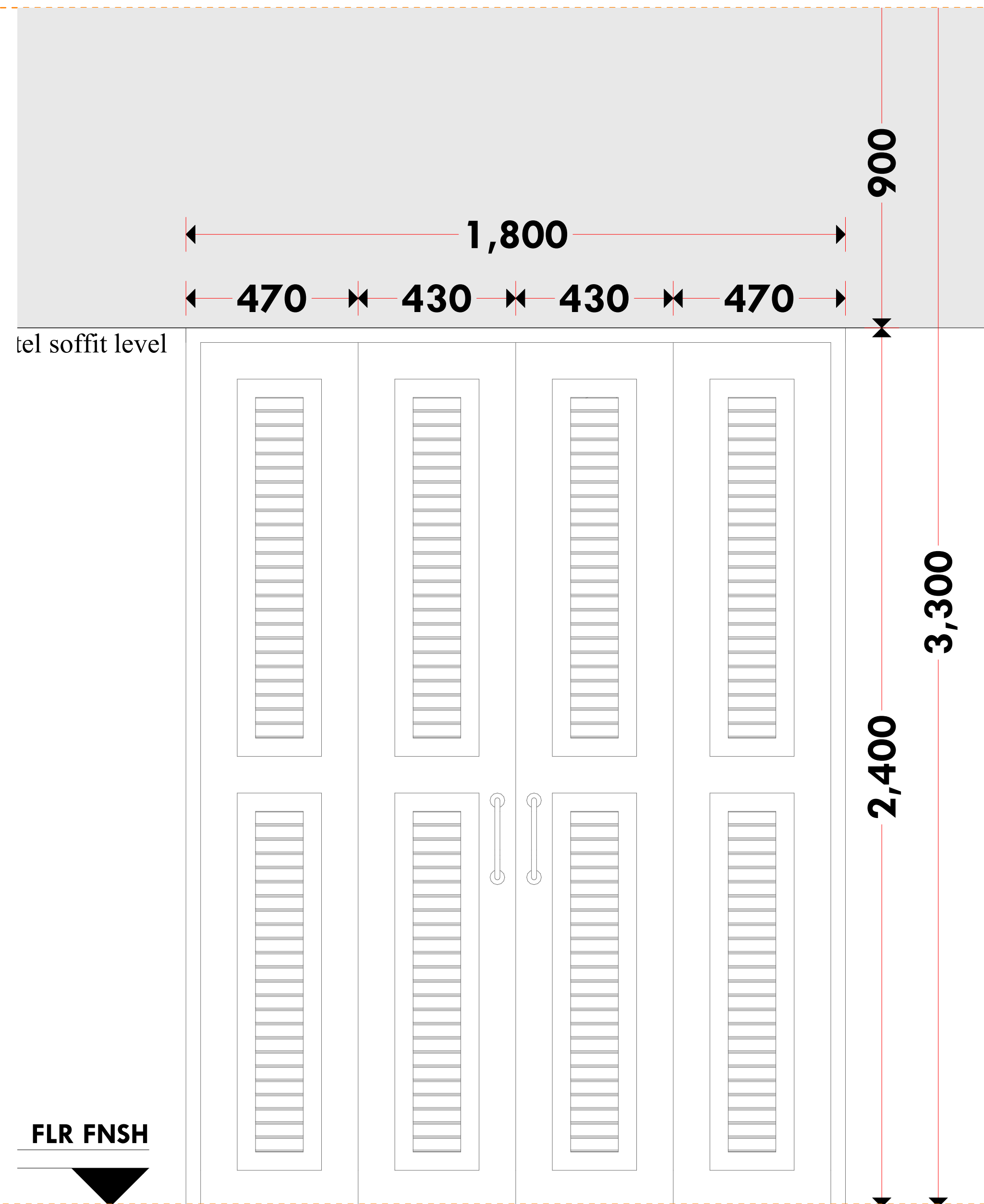
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# WINDOW DESIGN



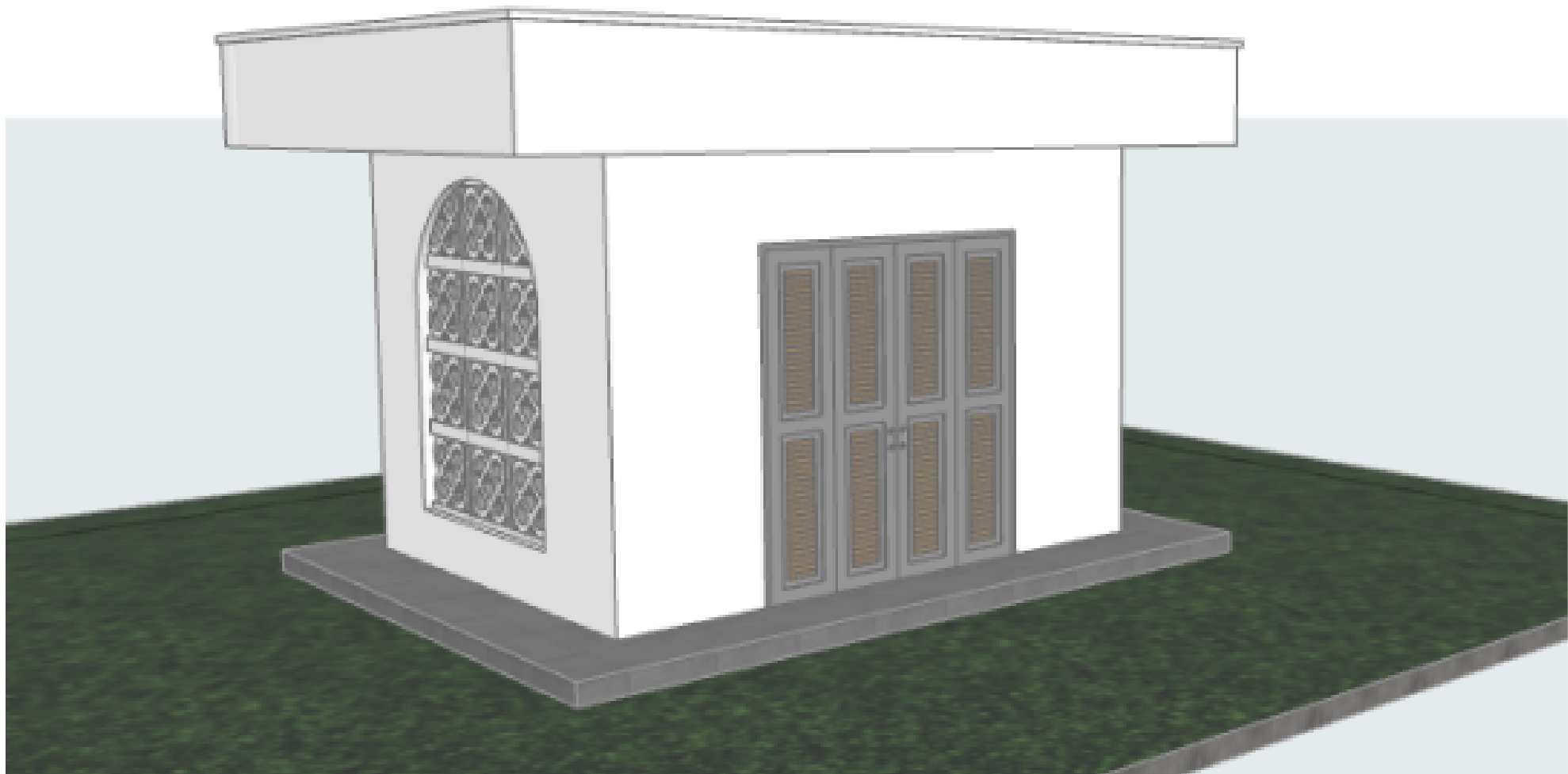
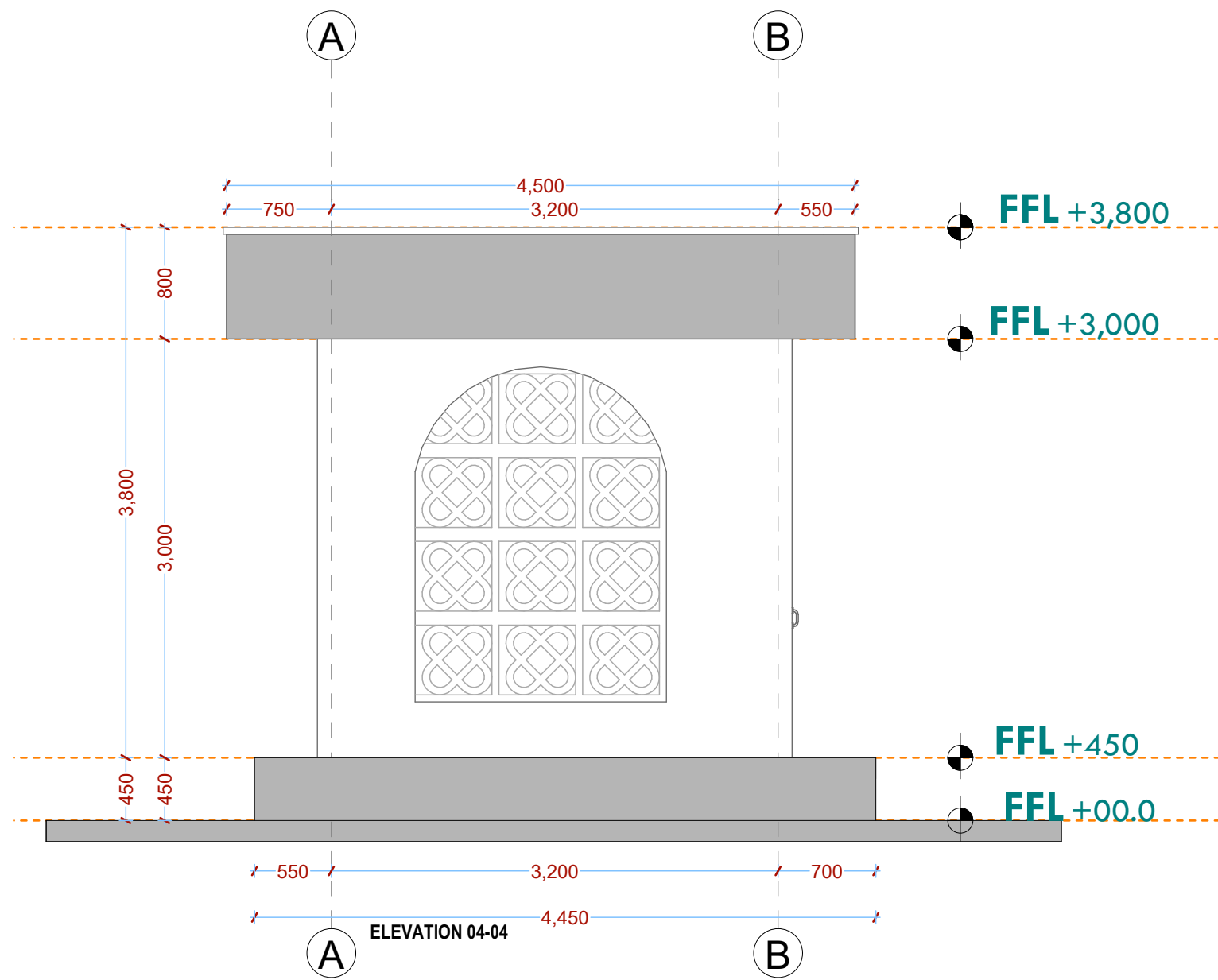
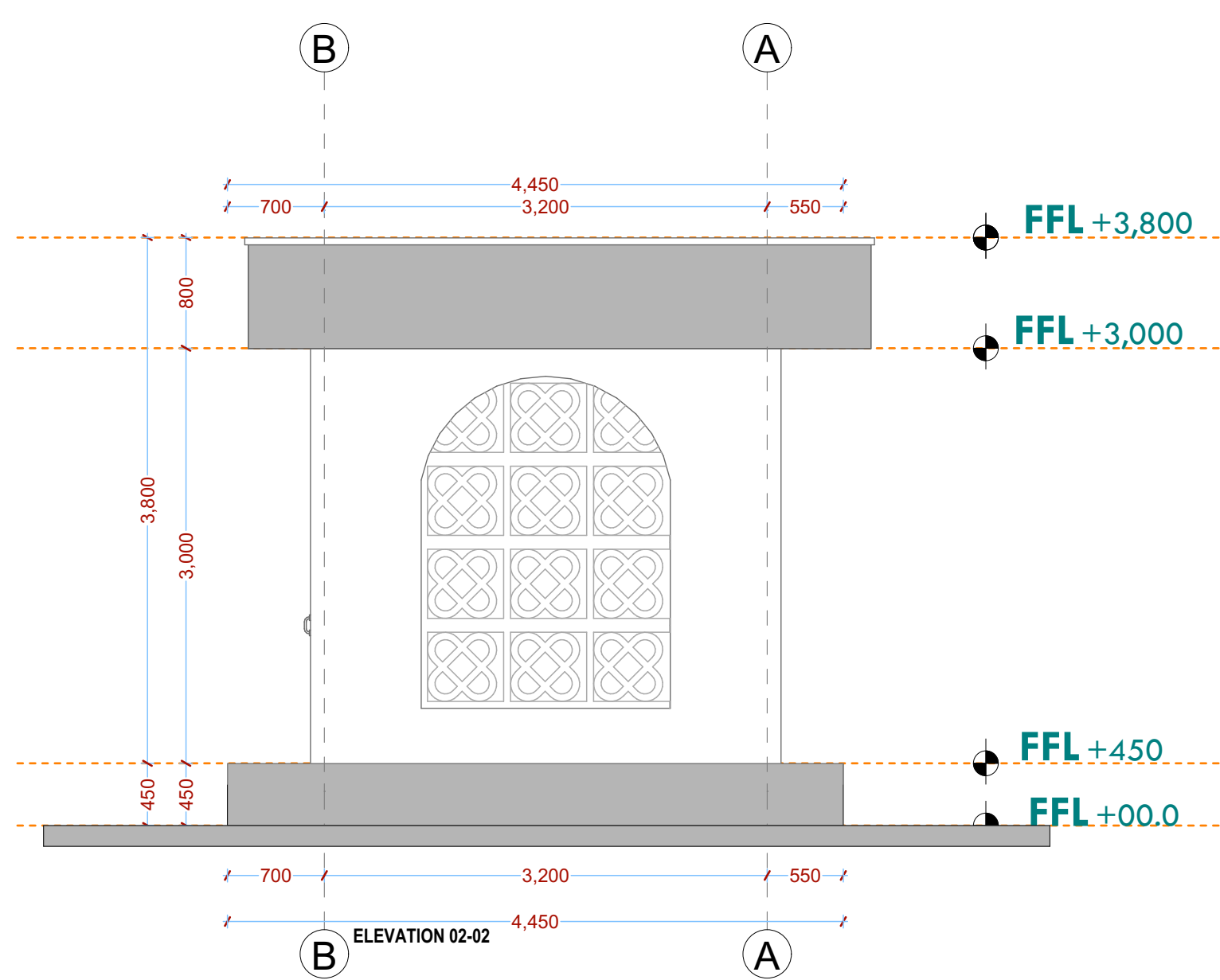
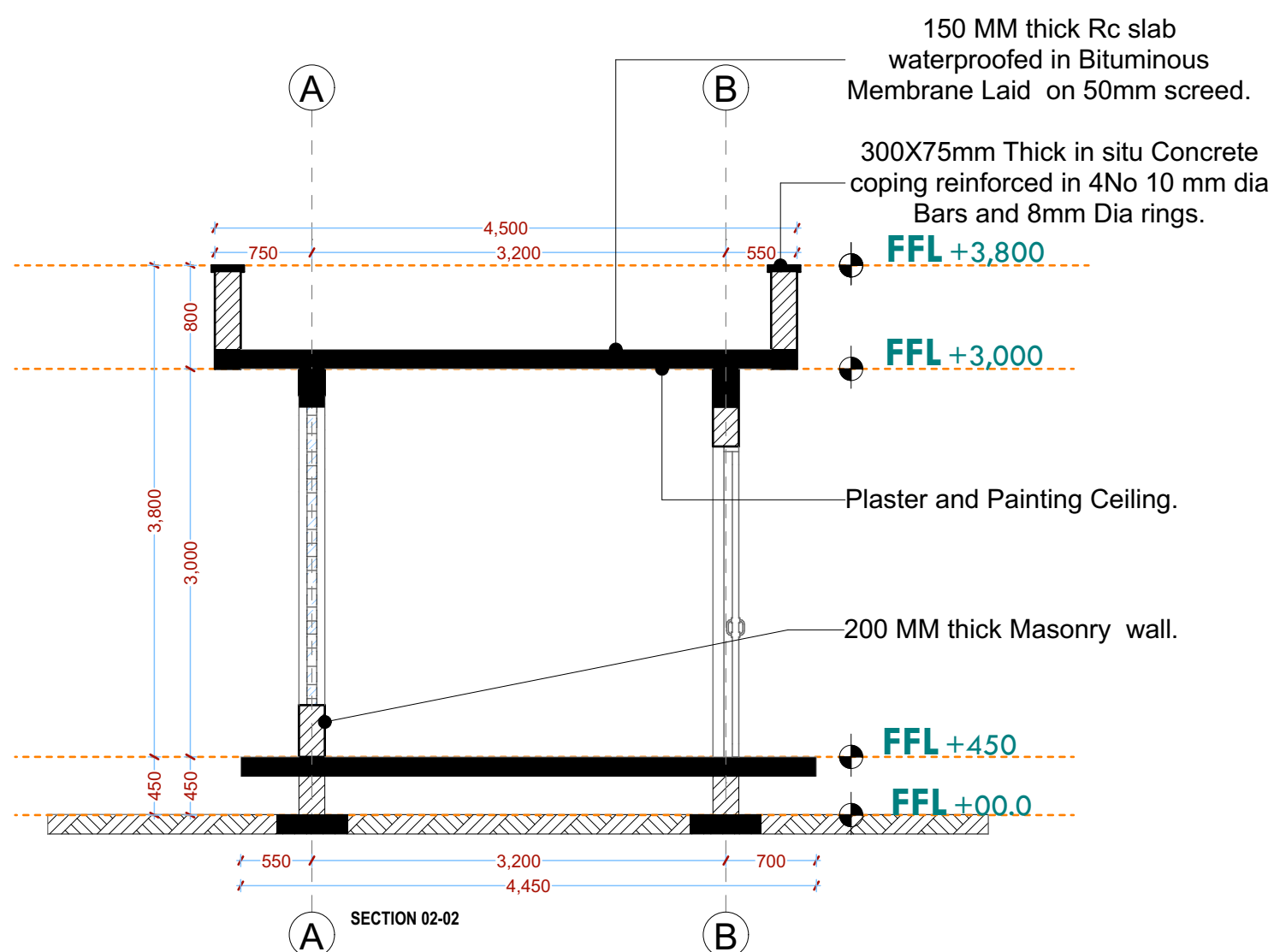
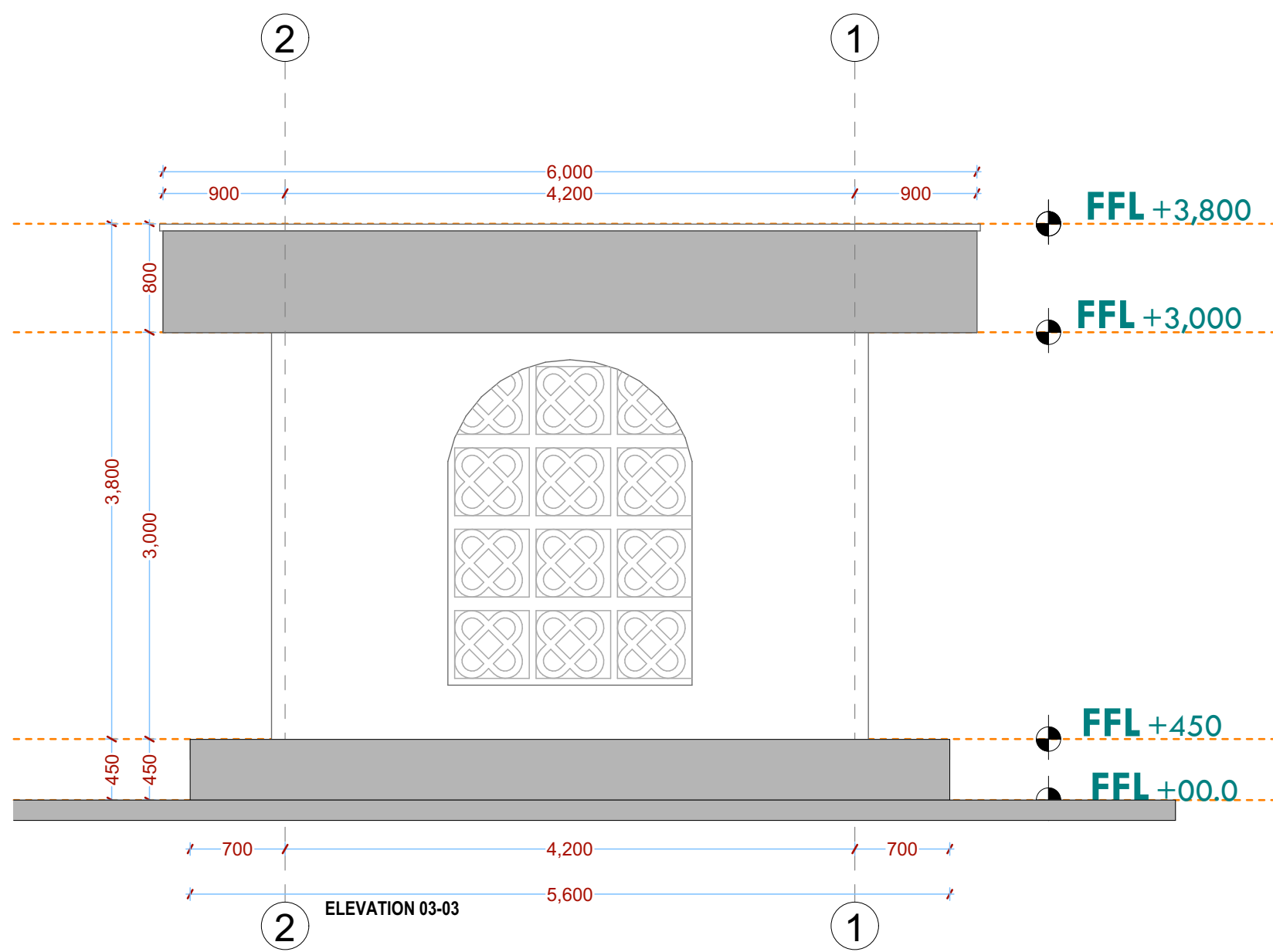
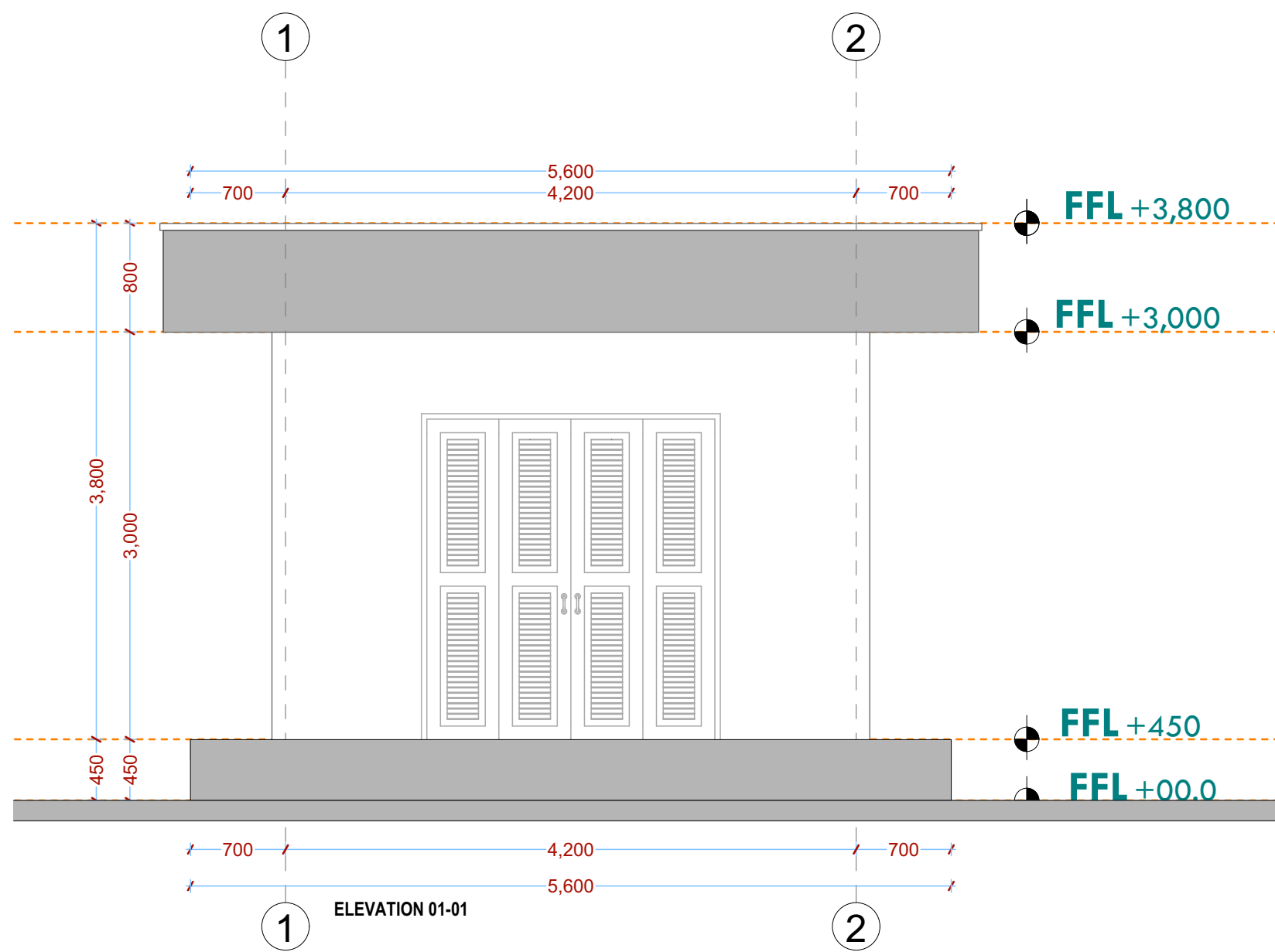
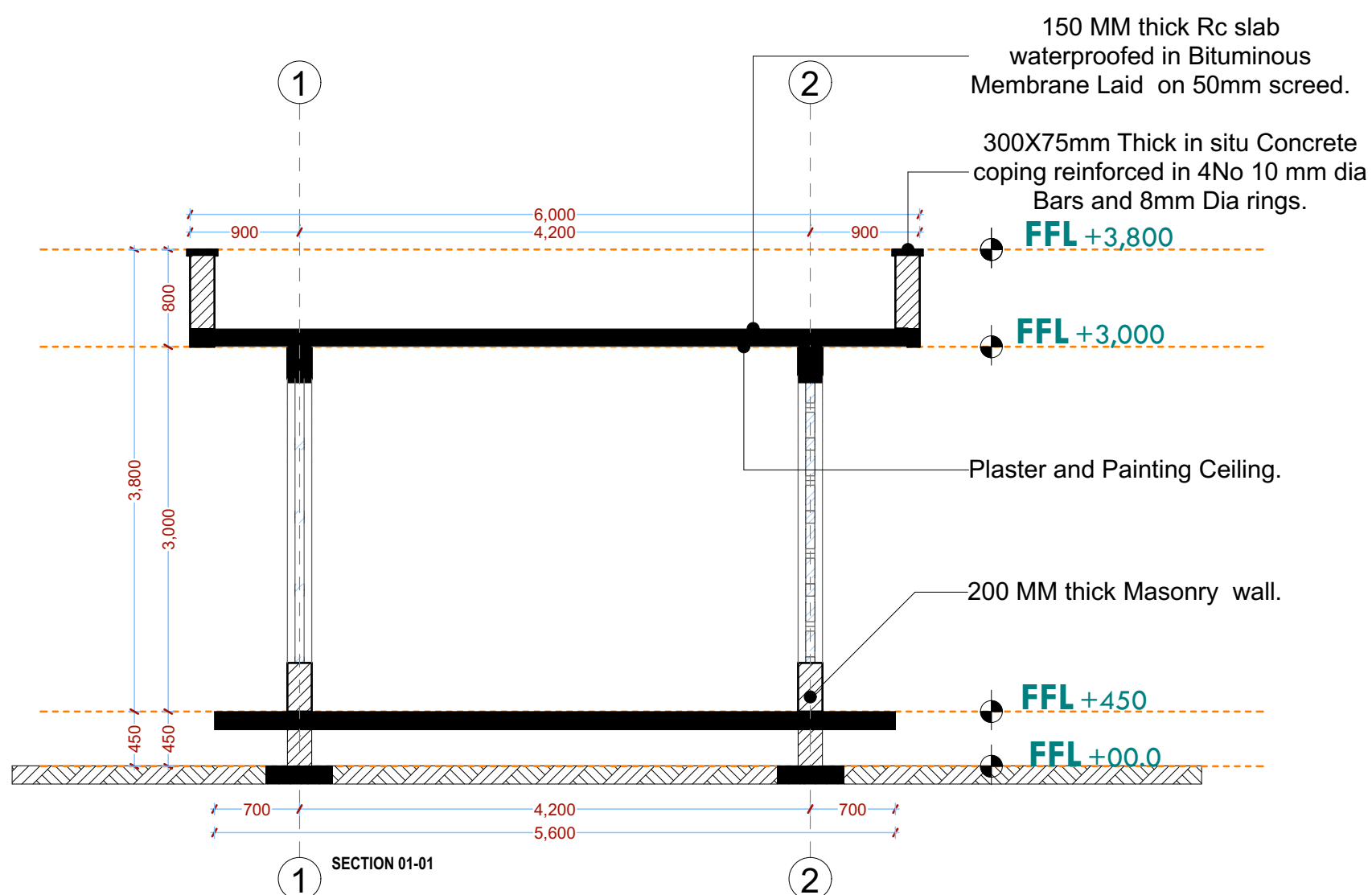
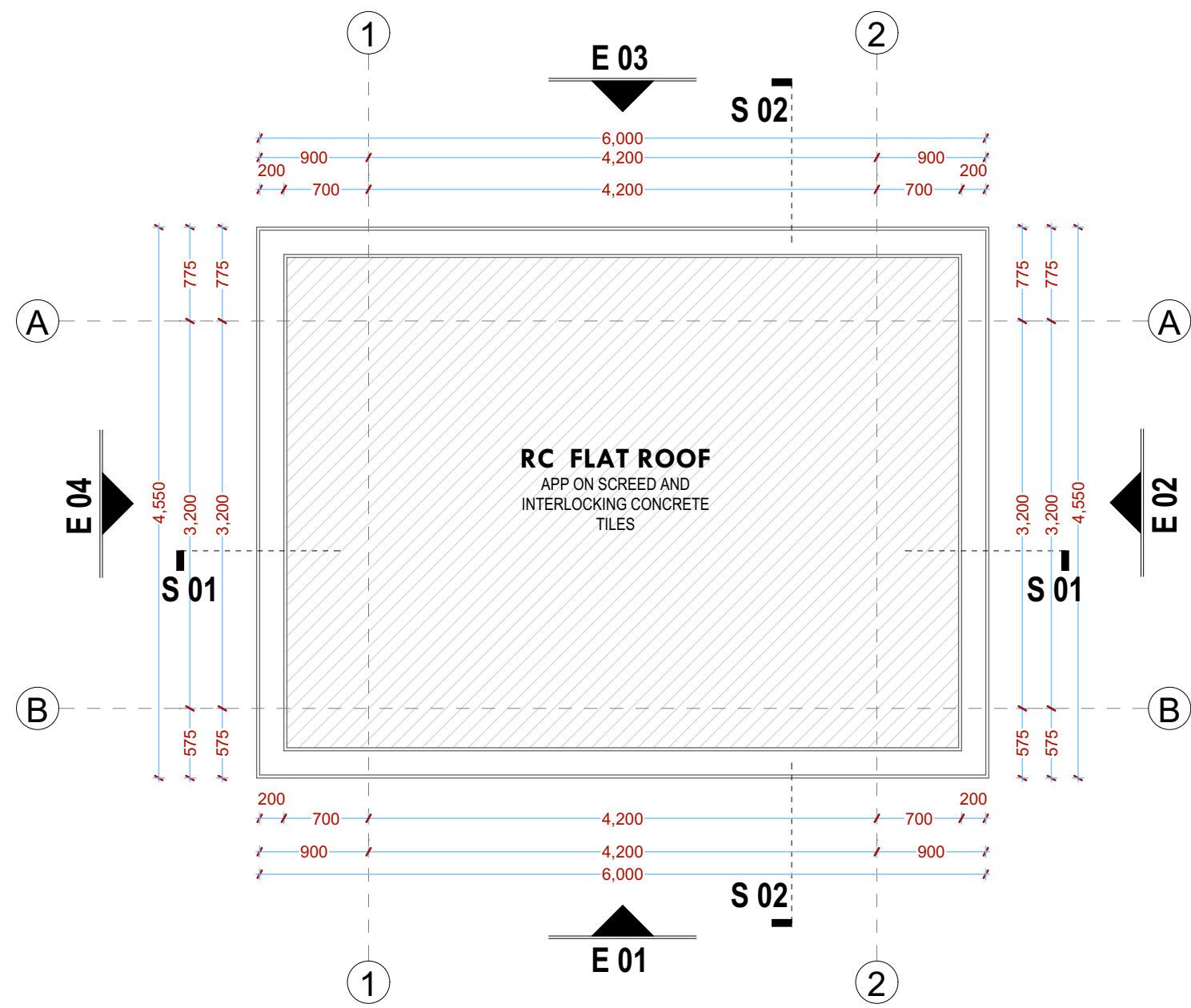
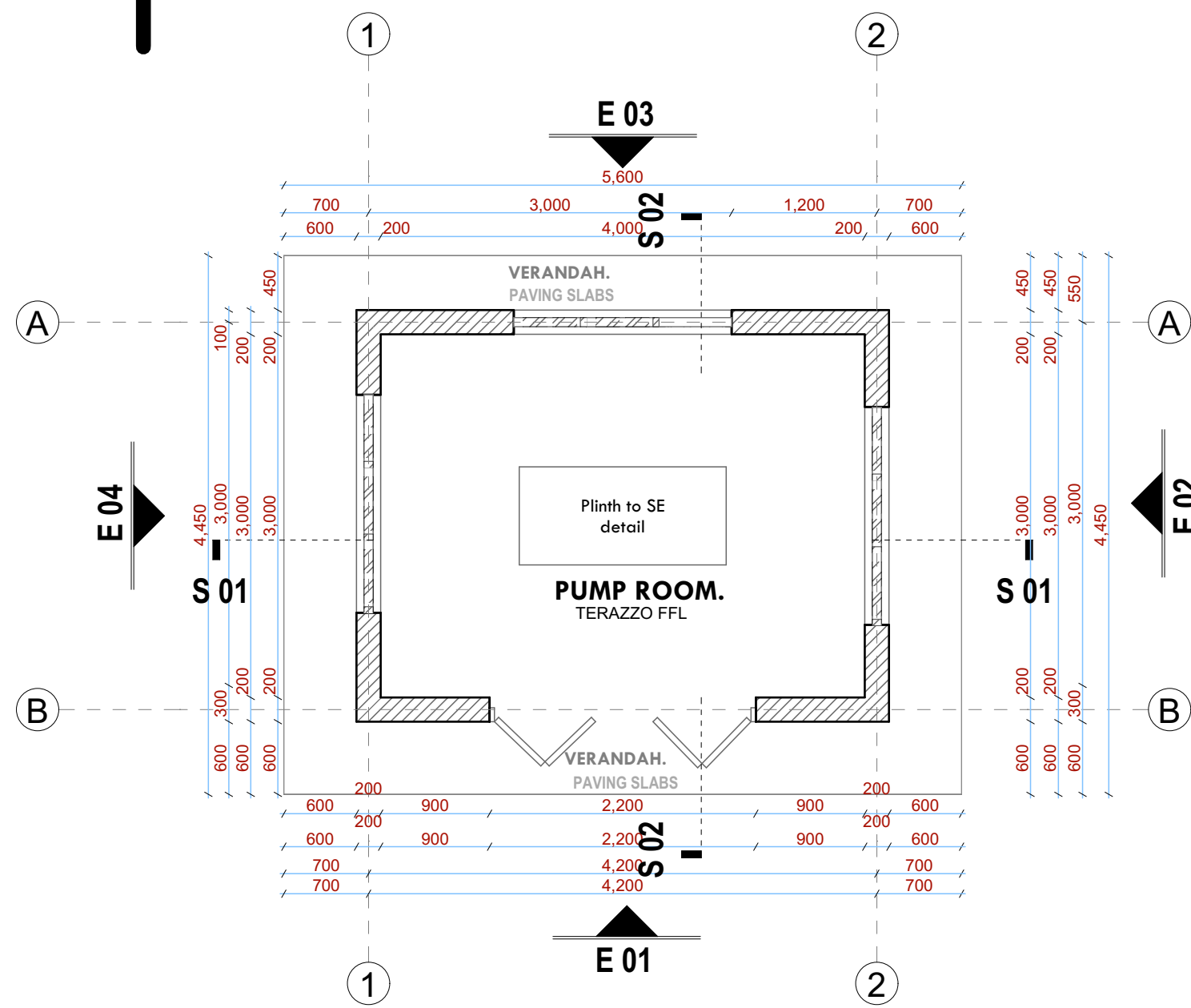
tel soffit level



**FLR FNSH**

[illegible]

10.G PUMP HOUSE DRAWINGS



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 dimensions 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
  5. All slab to grade to be poured on 1000gaugge polythene 50mm stone dust blinding on compacted hardcore.
  6. All windows under slab and around external foundation to be treated for termite control.
  7. Window cills must be finished before internal plastering

## 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 and national requirements.
13. All service ducts to be accessible from all floors.
14. Deep seal or anti-vapour to all fittings connected to the SWPS 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 installed in 150mm concrete surrounds.
17. All underground foul and waste drain pipes shall be UPVC and comply to BS5 454 and 5255. cast iron to comply to BS5 497 table 6 grade C except ones in the storm water drains which shall comply to BS5 555.
18. All inspection chamber covers and frames shall be cast iron to comply to BS5 497 table 6 grade C except inspection chamber covers for storm water drains which shall comply to BS5 555.
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 goods

24. All electricals 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 5kg. dry powder fire extinguishers to ME specifications

## REVISIONS

[illegible]

Project :

## PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location : **KILIFI CENTRAL FISH  
LANDING SITE  
KILIFI COUNTY**

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](http://www.arprimconsultants.com)

Drawn by:

**P. MOMANYI**  
B.Arch. (Hons),

|                |
|----------------|
| Checked by : - |
|----------------|

**F. TUNDULI**  
B. Arch. (Hon.)  
M. Arch.  
(reg. No. A)

|  |         |
|--|---------|
|  | Checked |
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|      |  |
|------|--|
| ons) | <b>J. MOMANYI</b><br>B. Arch. (Hons)<br>, M. Arch.<br>(reg. No.A1122 ) |
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ate:NOV 2023

Job No. 2023/Nov/KILIFI

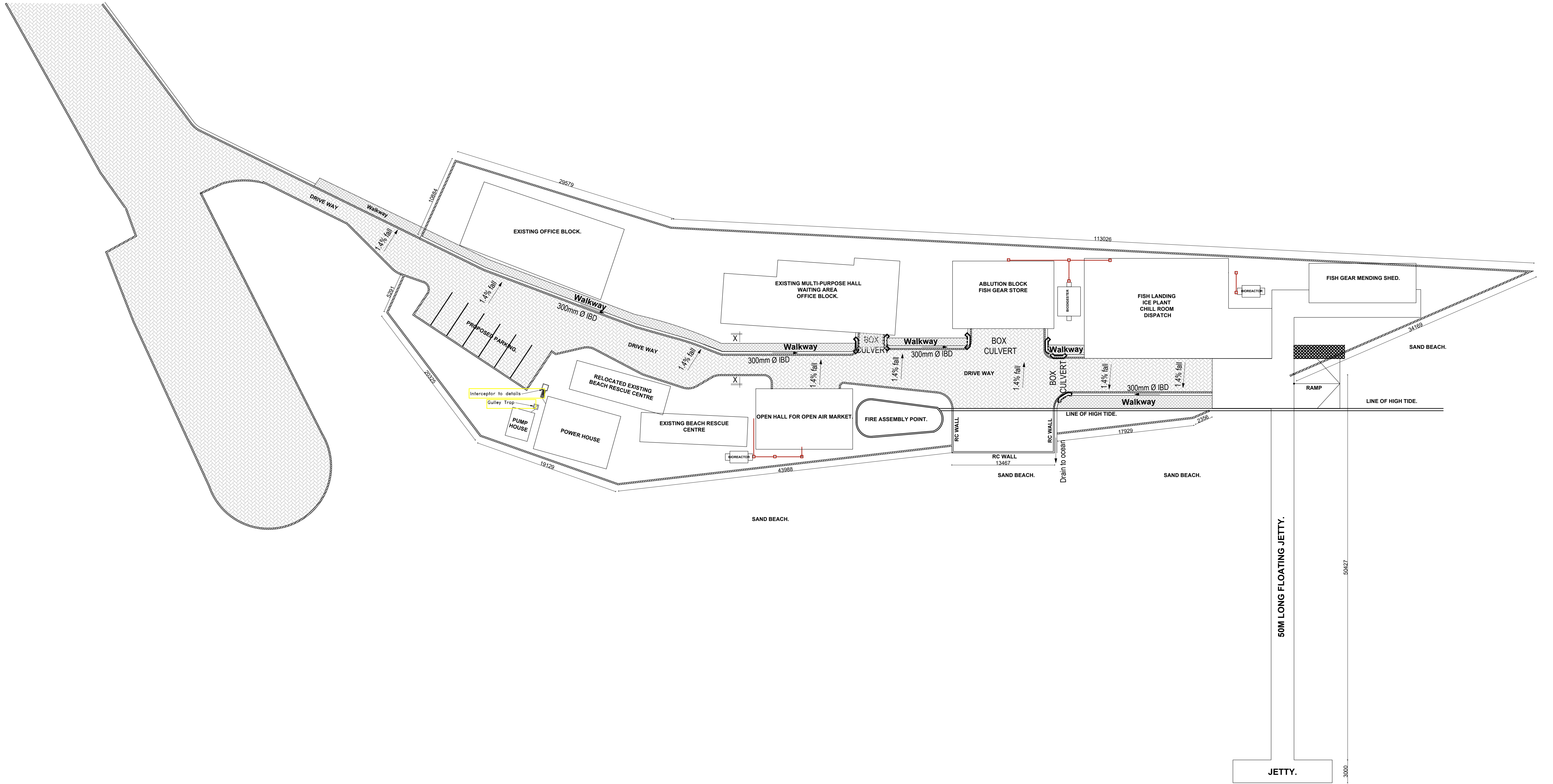
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10-001-020



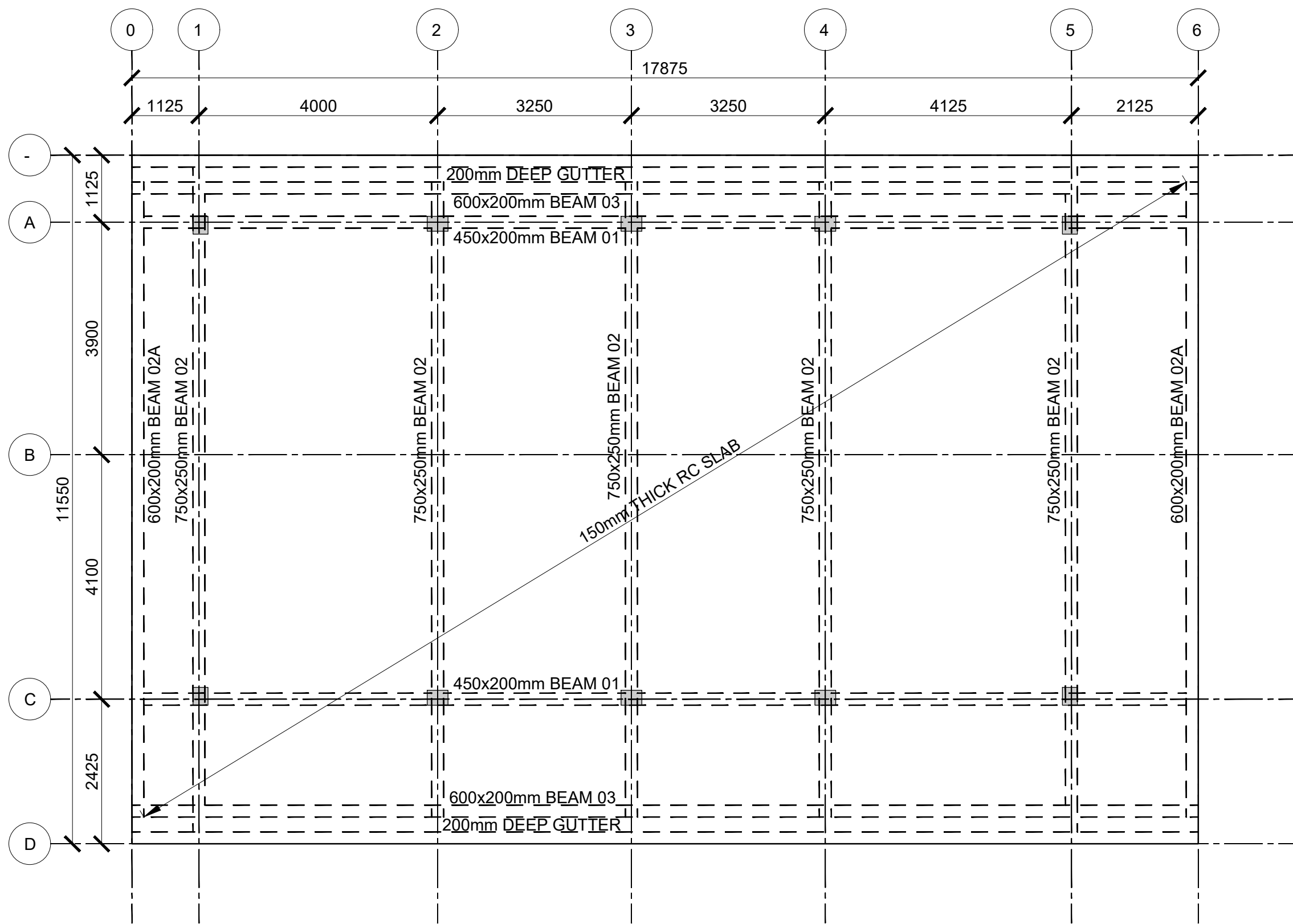
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| PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY. |  |                |  |  |   |  |  |  |  |  |  |  |  |  |
| PAGE  |  | DRAWING NUMBER |  |  | DRAWING TITLE   |  |  |  |  |  |  |  |  |  |
| 1   |  | 10-002-01      |  |  | DRAWING LIST  |  |  |  |  |  |  |  |  |  |
| 2   |  | 10-002-02      |  |  | SITE PLAN   |  |  |  |  |  |  |  |  |  |
| 3   |  | 10-002-03      |  |  | OPEN AIR MARKET - FOUNDATION, RAMP, STAIRCASE & COLUMN DETAIL |  |  |  |  |  |  |  |  |  |
| 4   |  | 10-002-04      |  |  | OPEN AIR MARKET BUILDING - ROOF, GUTTER AND BEAM DETAIL       |  |  |  |  |  |  |  |  |  |
| 5   |  | 10-002-05      |  |  | MODERN FISH BANDA - FOUNDATION LAYOUT AND DETAIL              |  |  |  |  |  |  |  |  |  |
| 6   |  | 10-002-06      |  |  | MODERN FISH BANDA - ROOF 01, ROOF 02, GUTTER & COLUMN DETAIL  |  |  |  |  |  |  |  |  |  |
| 7   |  | 10-002-07      |  |  | MODERN FISH BANDA - BEAM DETAIL                               |  |  |  |  |  |  |  |  |  |
| 8   |  | 10-002-08      |  |  | FISH GEAR MENDING SHED - FOUNDATION LAYOUT AND DETAIL         |  |  |  |  |  |  |  |  |  |
| 9   |  | 10-002-09      |  |  | FISH GEAR MENDING SHED - ROOF, COLUMN AND BEAM DETAIL         |  |  |  |  |  |  |  |  |  |
| 10  |  | 10-002-10      |  |  | FISH GEAR STORE & ABLUTION - FDN, RAMP, STAIRCASE & COLUMN    |  |  |  |  |  |  |  |  |  |
| 11  |  | 10-002-11      |  |  | FISH GEAR STORE AND ABLUTION - ROOF, GUTTER AND BEAM DETAIL   |  |  |  |  |  |  |  |  |  |
| 12  |  | 10-002-12      |  |  | POWER ROOM STRUCTURALS  |  |  |  |  |  |  |  |  |  |
| 13  |  | 10-002-13      |  |  | PUMP ROOM STRUCTURALS   |  |  |  |  |  |  |  |  |  |
| 14  |  | 10-002-14      |  |  | BIODIGESTER AND SOAK-PIT DETAIL                               |  |  |  |  |  |  |  |  |  |
| 15  |  | 10-002-15      |  |  | BIOREACTOR AND INTERCEPTER DETAIL                             |  |  |  |  |  |  |  |  |  |
| 16  |  | 10-002-16      |  |  | CIVIL WORKS 01  |  |  |  |  |  |  |  |  |  |
| 17  |  | 10-002-17      |  |  | CIVIL WORKS 02  |  |  |  |  |  |  |  |  |  |
| 18  |  | 10-002-18      |  |  | CIVIL WORKS 03  |  |  |  |  |  |  |  |  |  |
| 19  |  | 10-002-19      |  |  | FLOATING JETTY LAYOUT AND SECTION A-A                         |  |  |  |  |  |  |  |  |  |
| 20  |  | 10-002-20      |  |  | FLOATING JETTY GENERAL LAYOUT AND ELEVATION                   |  |  |  |  |  |  |  |  |  |
| 21  |  | 10-002-21      |  |  | FLOATING JETTY SECTIONS                                       |  |  |  |  |  |  |  |  |  |
| 22  |  | 10-002-22      |  |  | FLOATING JETTY ALUMINIUM GANGWAY DETAILS                      |  |  |  |  |  |  |  |  |  |
| 23  |  | 10-002-23      |  |  | FLOATING JETTY FLOATS STRUCTURE                               |  |  |  |  |  |  |  |  |  |
| 24  |  | 10-002-24      |  |  | FLOATING JETTY FLOATS STRUCTURAL DETAILS                      |  |  |  |  |  |  |  |  |  |
| 25  |  | 10-002-25      |  |  | FLOATING JETTY FLOATS SECTIONS                                |  |  |  |  |  |  |  |  |  |

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|--|--|--|--|--|--|---|--|--|--|---|--|---|--|----------------------------------|--|-------------|--|----|--|------|--|
| Consultant:-<br><b>ARPRIM CONSORTIUM</b><br>P.O. Box 12969-00100,<br>Nairobi, KENYA.<br>Tel: 02 608 906<br>Fax: 02 608 907<br>E-mail: info@arprimconsultants.com |  | CLIENT:-<br><b>STATE DEPARTMENT FOR FISHERIES,<br/>AQUACULTURE AND THE BLUE ECONOMY.</b> |  | PROJECT:-<br><b>PROPOSED KENYA MARINE FISHERIES AND<br/>SOCIO-ECONOMIC DEVELOPMENT (KEMFSED) NATIONAL<br/>AND COUNTY FISHERIES INFRASTRUCTURE.</b> |  | PROJECT TITLE:-<br><b>PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.</b> |  | <b>NOTES</b><br>1. Read this drawing in conjunction with relevant G.A.,<br>Services and Architectural drawings. Any discrepancy<br>to be reported to the Engineer.<br>2. All dimensions are in millimetres unless specified<br>otherwise.<br>3. All levels are indicated in m unless specified otherwise.<br>4. Minimum cover to all reinforcement to be:<br><br>Stairs, Slabs & Walls = 35mm<br>Beams (main bars) = 35mm<br>Post-tensioned beams = 40mm<br>Columns (main bars) = 40mm<br>Foundations = 75mm<br>5. Maximum tolerance on concrete cover is +/- 5mm.<br>6. All high tensile (T) and mild steel (R) bars to be in<br>accordance with BS 4449 and fabric mesh to be<br>made from cold worked steel bars in accordance<br>with BS 4483.<br>7. Minimum laps to all bars to be 500 unless stated otherwise. |  | 8. Safe Bearing Pressure taken to be 250 KN/m².<br>9. Nominal aggregate size to be 20mm.<br>10. Structural concrete to be Class 25 unless stated otherwise.<br>11. Concrete blinding to be Class 15 unless stated otherwise.<br>12. Masonry Strength to be 7.0 N/mm². |  | Designed by<br><b>DAN</b><br>Drawn by<br><b>DAN</b><br>Checked by<br><b>HOH</b><br>Scale<br><b>AS SHOWN</b> |  | Rev<br>D<br>C<br>B<br>A          |  | Description |  | By |  | Date |  |
|  |  |  |  |  |  |   |  |  |  |   |  |   |  | <div>DRAWING NO. 10-002-01</div> |  |             |  |    |  |      |  |

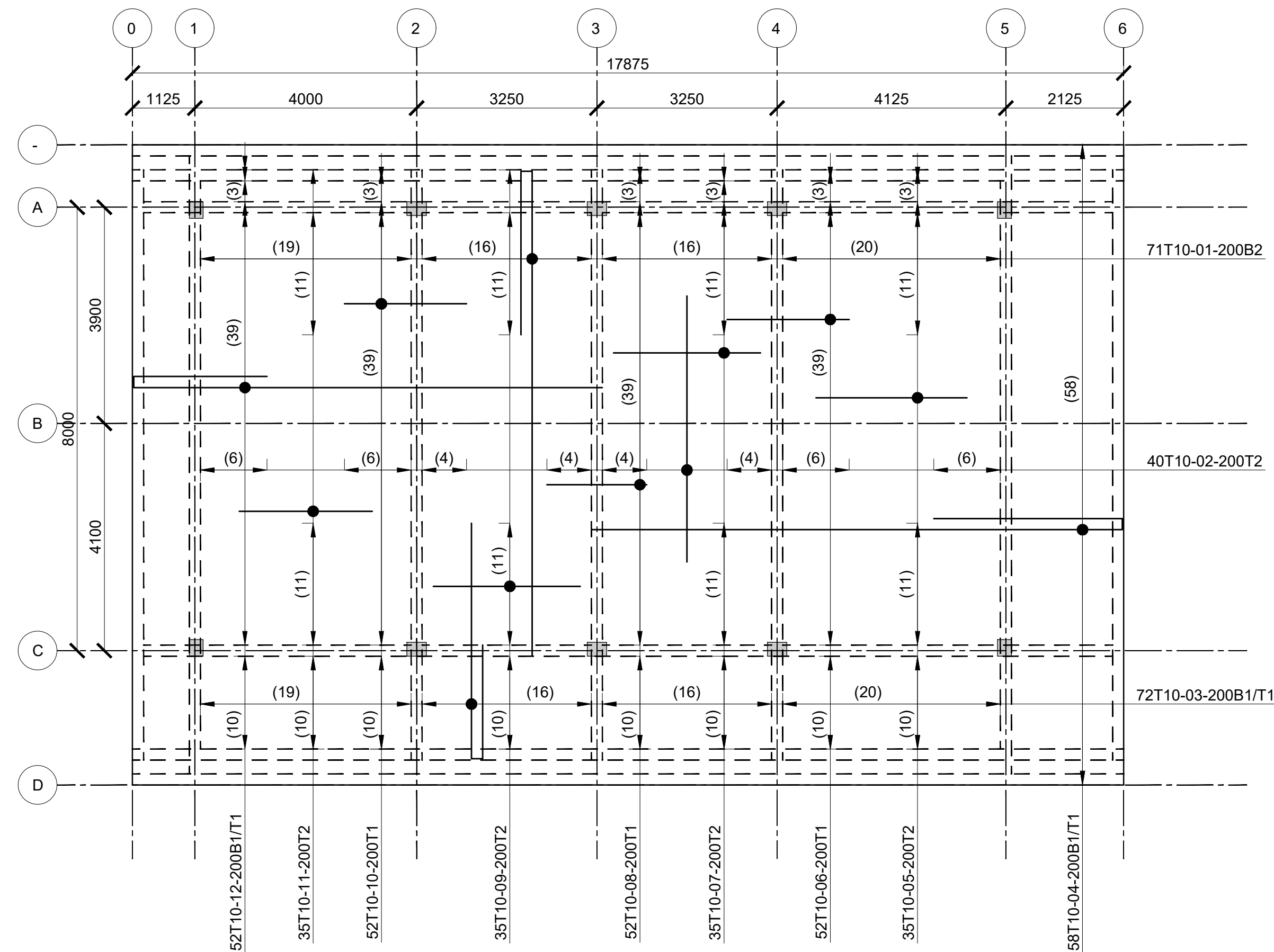




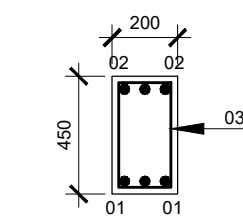
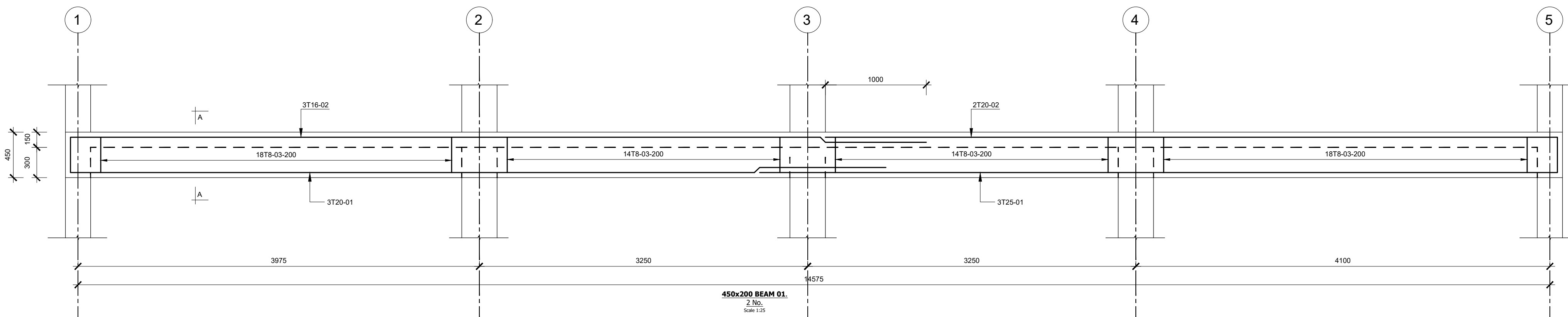




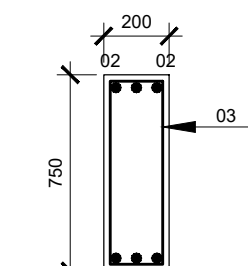
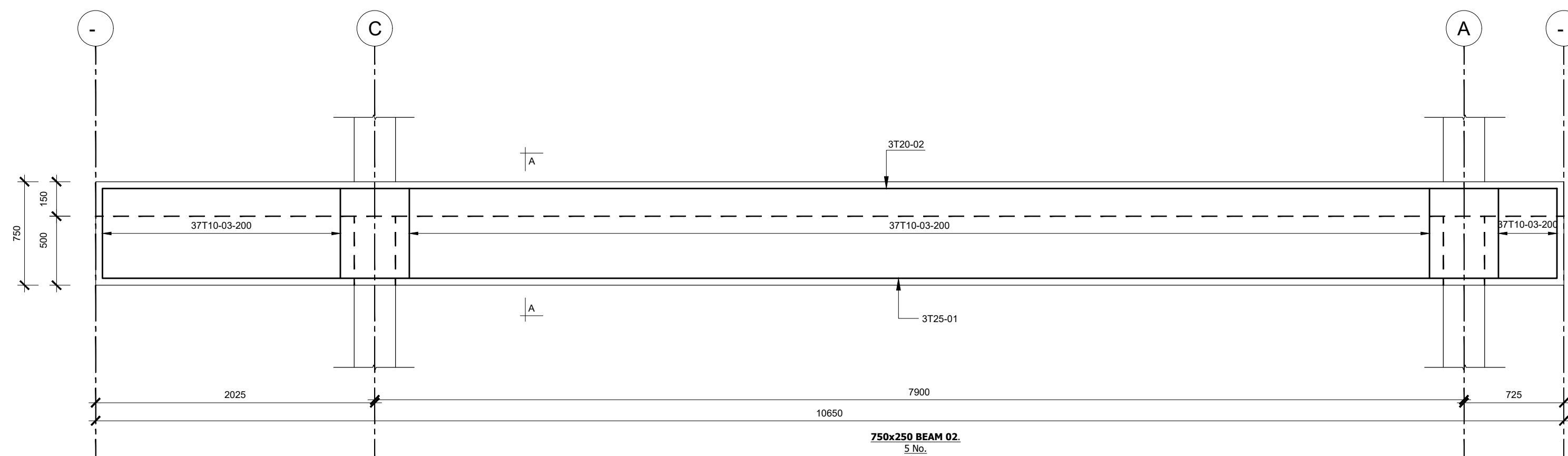
ROOF LAYOUT  
(SCALE 1:100)



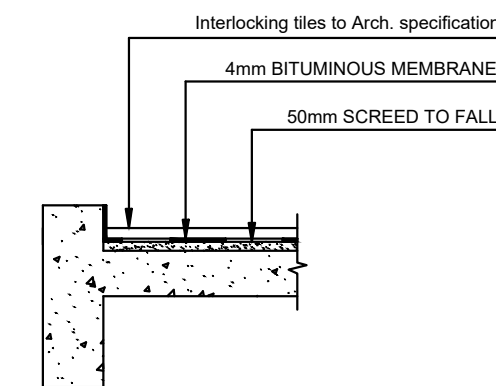
ROOF SLAB RC DETAIL  
(SCALE 1:100)



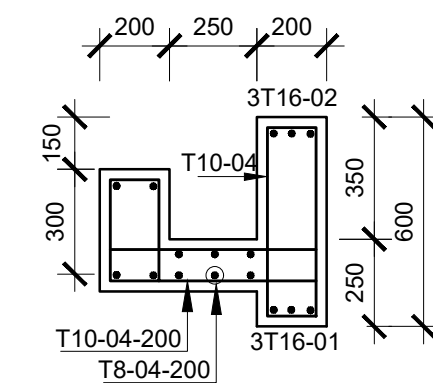
SECTION A-A  
Scale 1:25



SECTION A-A  
Scale 1:25



TYPICAL ROOF SLAB  
W/POOFING DETAIL



GUTTER SECTION  
(SCALE 1:25)

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 (KEMFSED) NATIONAL  
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-  
**PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.**

DRAWING TITLE:-  
**OPEN AIR MARKET BUILDING - ROOF, GUTTER AND BEAM DETAIL**

**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 m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

- Stairs, Slabs & Walls = 35mm
- Beams (main bars) = 35mm
- Post-tensioned beams = 40mm
- 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 4483.
- 7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 250 KN/m<sup>2</sup>.
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.

| Designed by | DAN      | Rev | Description | By | Date |
|-------------|----------|-----|-------------|----|------|
| Drawn by    | DAN      | D   |             |    |      |
| Checked by  | HOH      | C   |             |    |      |
| Scale       | AS SHOWN | B   |             |    |      |
|             |          | A   |             |    |      |

DRAWING NO. 10-002-04



**FOUNDATION/GROUND FLOOR LAYOUT**  
(SCALE 1:100)

D.O.S

Minimun 1200mm

450

2850

SECTION 02-02

SCALE 1:25

6T12-02 Starter bars

T8-03-200

29T12-01-200B

T8-03-150

19T12-02-100T7

29T12-03-100T7

4T16-02 Starter bars

150mm Thick Ground FI Slab

1000 Gauge Polythene Sheet (PPM)

50mm Murrum Blinding or approved similar

300mm thick (minimum) approved material  
excavated and compacted in layers not  
exceeding 150mm

2a

19T12-04-200B2

50mm Concrete Blinding

Structural drawing of a rectangular slab (PLAN: BASE CB1) showing dimensions, reinforcement, and column locations.

**Dimensions:**

- Overall width: 2000
- Overall depth: 2650
- Internal width segments: 1000, 1000
- Internal depth segments: 775, 1100, 775

**Reinforcement:**

- Top reinforcement: 14T12-02;200B1/T1
- Bottom reinforcement: 10T12-01-200B2/T2

**Columns:** Two square columns are shown, one at the top center and one at the bottom center.

**Annotations:**

- PLAN: BASE CB1
- (3 Nos)
- SCALE: 1:25

150mm Thick ground floor slab

Mesh fabric A142

1000g Polythene Sheetting

50mm thick quarry dust binding

300mm thick min. well compacted hardcore fill

3T10-Q1-B2

T10-Q2-200 B1

50mm Thick Concrete binding

150

D.O.S. Minimum 2000mm

200

200

200

600

**Section through strip footing A-A**  
(External Walls)

1500

600

300

600

10T12-02-200B1

1500

650

200

650

10T12-02-200B2

**PLAN:-BASE B1**  
**23 No.**  
 Scale 1:30

4T16-03 Starter bars

75mm Kicker

150mm Thick Ground FI Slab

1000 Gauge Polythene Sheet D.P.M.

50mm Murram Blinding or approved similar

300mm thick (minimum) approved material hardcore fill laid and compacted in layers not exceeding 150mm

10T12-01-200B1

10T12-02-200B2

50mm Concrete Blinding

1500

400

10T12-02-200B2

1500

SEC-BASE B1  
(WITH COL C1)

[illegible]

Architectural plan of the base of the monument. The plan shows a rectangular base with a central rectangular pedestal. The overall dimensions are 1700 units by 1700 units. The pedestal is 700 units wide and 300 units high. The base is divided into sections: 675 units from the left and right edges to the pedestal, and 200 units from the top and bottom edges to the pedestal. The plan is labeled "PLAN:-BASE B2" and "2 No." with a scale of 1:30.

Technical drawing showing a cross-section of a road structure. The drawing includes the following components and labels:

- 6T12-03 Starter bars**: Reinforcement bars at the top.
- 75mm Kicker**: A layer below the starter bars.
- 150mm Thick Ground FI Slab**: A concrete slab layer.
- 1000 Gauge Polythene Sheet D.P.M**: A waterproofing layer.
- 50mm Murram Blinding or approved similar**: A layer below the polythene sheet.
- 300mm thick (minimum) approved material hardcore fill laid and compacted in layers not exceeding 150mm**: The main base layer.
- 4a**: Reinforcement bars within the hardcore fill.
- T8-03-150**: Reinforcement bars within the hardcore fill.
- 9T12-01-200B1**: Reinforcement bars at the bottom of the structure.
- 9T12-02-200B2**: Reinforcement bars at the bottom of the structure.
- 50mm Concrete Blinding**: A concrete layer at the base.
- D.O.S Min To Be 1200mm**: Dimension line indicating the minimum depth of the structure.
- 400**: Dimension line indicating the height of the structure.
- 1700**: Dimension line indicating the width of the structure.

GROUND FLOOR

To be determined on site

EXISTING GROUND

150mm thick ground floor slab enhanced with A142 BRC mesh

1000g Polythene Sheetting

50mm thick quarry dust blinding

300mm thick min. well compacted hardcore fill in 2 layers of 150mm each

SECTION THROUGH RAMP (1 IN 12)  
(SCALE 1 : 25)

150mm thick ground floor slab enhanced with A142 BRC mesh

1000g Polythene Sheeting

50mm thick quarry dust blinding

600mm thick well compacted hardcore fill in layers of 150mm each

SECTION THROUGH ENTRANCE STAIRCASE 01  
(SCALE 1 : 50)

Consultant:-  
**ARPRIM CONSORTIUM**  
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Nairobi, KENYA.  
Tel: 02 608 906  
Fax: 02 608 907  
E-mail: [info@arprimconsultants.com](mailto: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 KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.**

**DRAWING TITLE:-**  
**MODERN FISH BANDA - FOUNDATION LAYOUT AND DETAIL**

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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 m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

|                       |        |
|-----------------------|--------|
| Stairs, Slabs & Walls | = 35mm |
| Beams (main bars)     | = 35mm |
| Post-tensioned beams  | = 40mm |
| Columns (main bars)   | = 40mm |
| Foundations           | = 75mm |

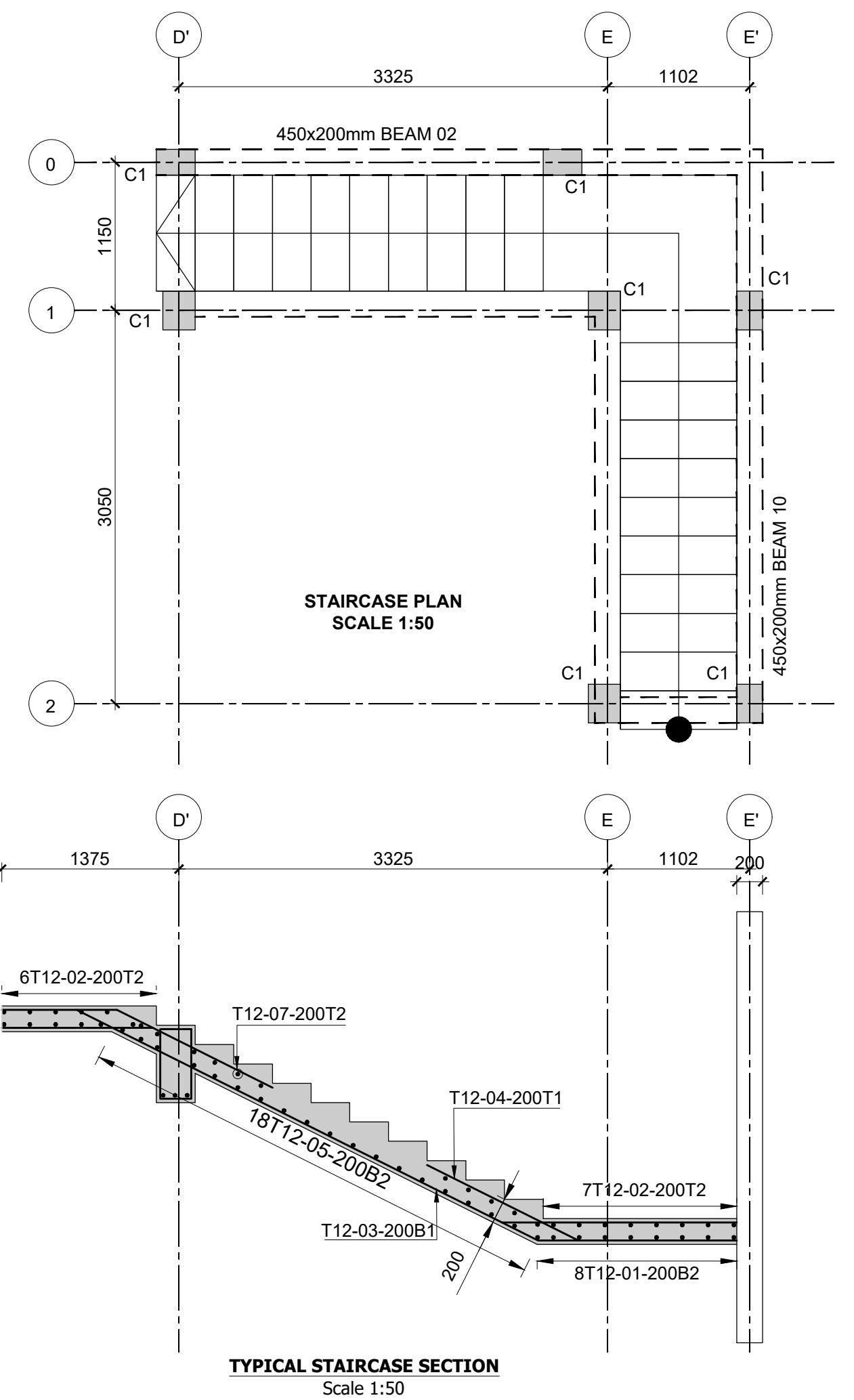
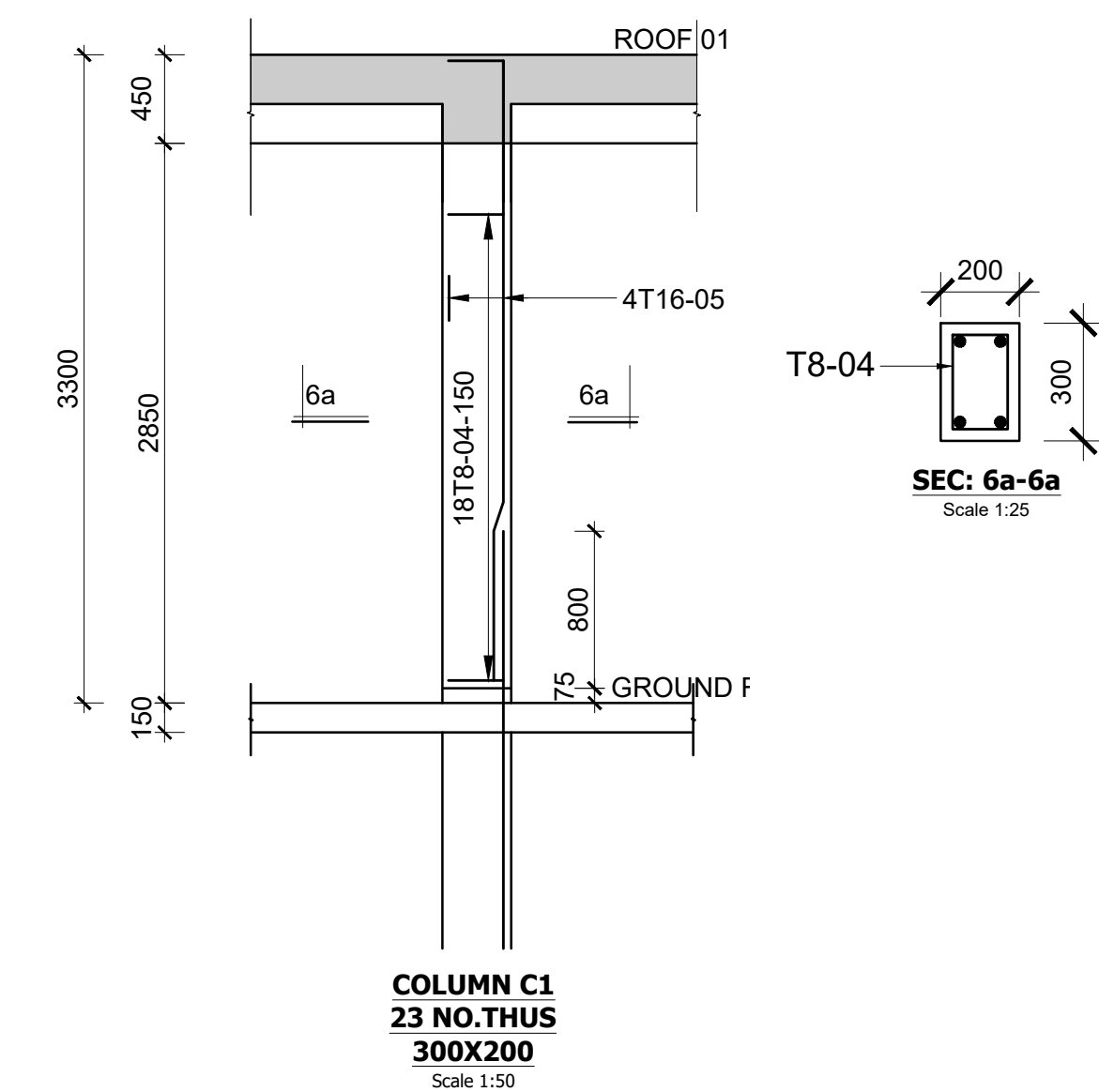
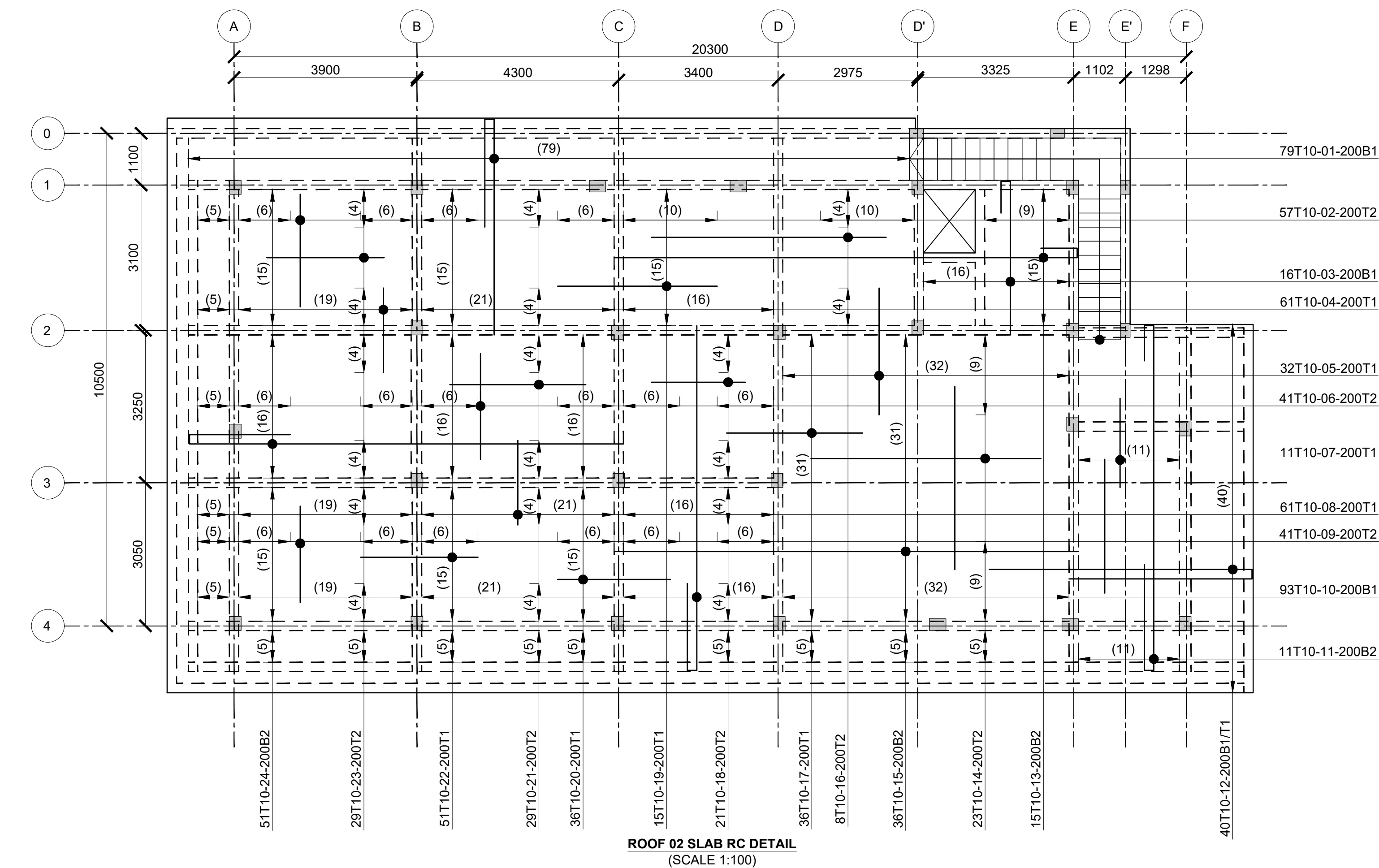
- Maximum tolerance on concrete cover is +/- 5mm.
- All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.
- Minimum laps to all bars to be 50Ø unless stated otherwise

8. Safe Bearing Pressure taken to be 250 kN/m<sup>2</sup>
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated
11. Concrete blinding to be Class 15 unless stated
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>

|             |          |     |             |    |      |
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| Designed by | DAN      | Rev | Description | By | Date |
| Drawn by    | DAN      | D   |             |    |      |
| Checked by  | HOH      | C   |             |    |      |
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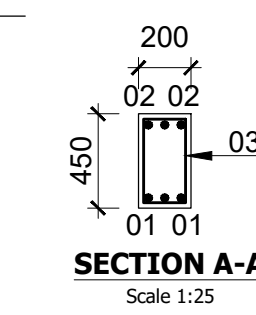
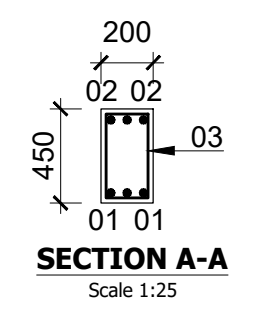
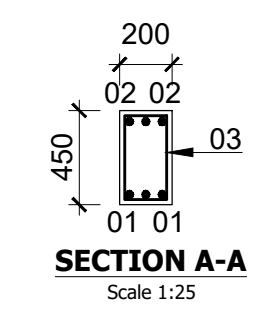
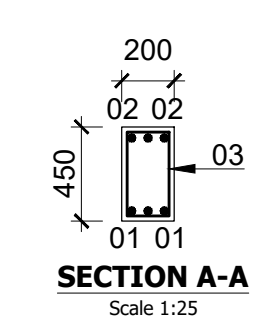
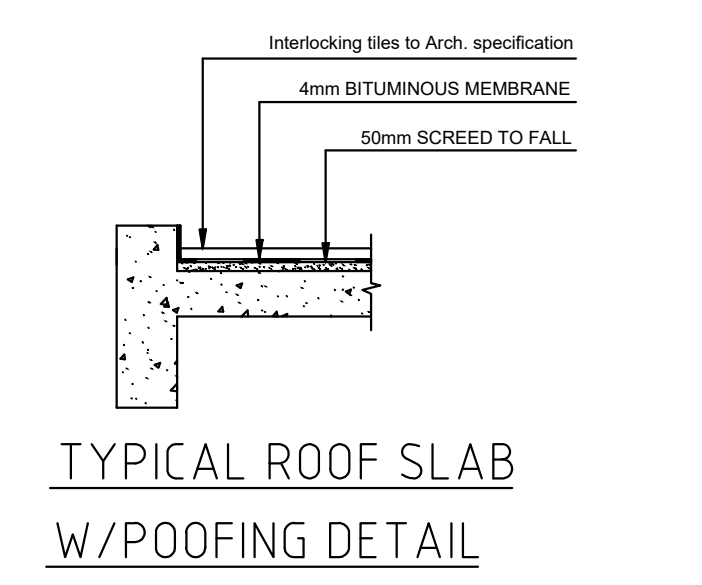
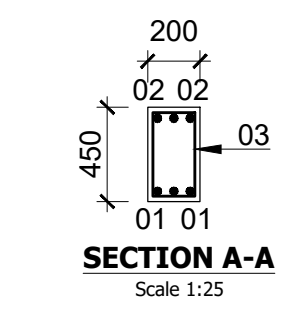
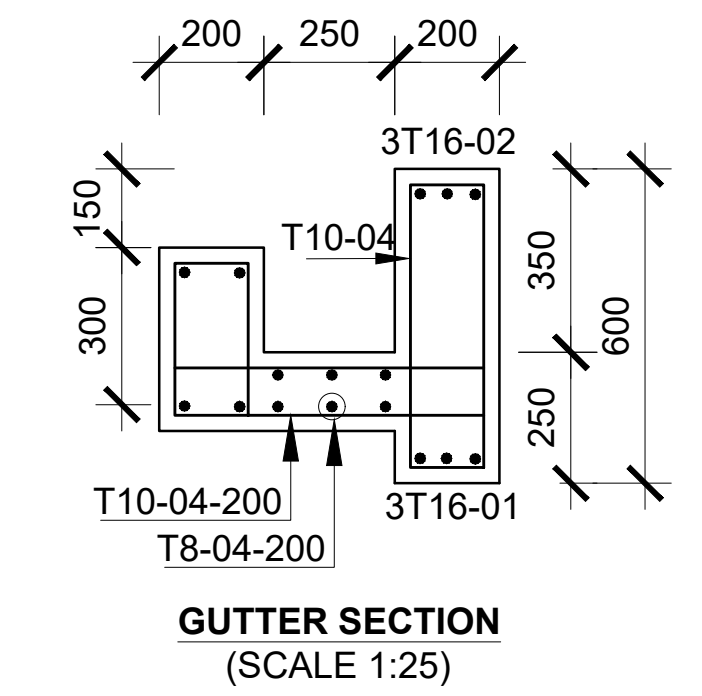
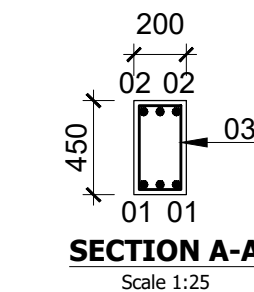
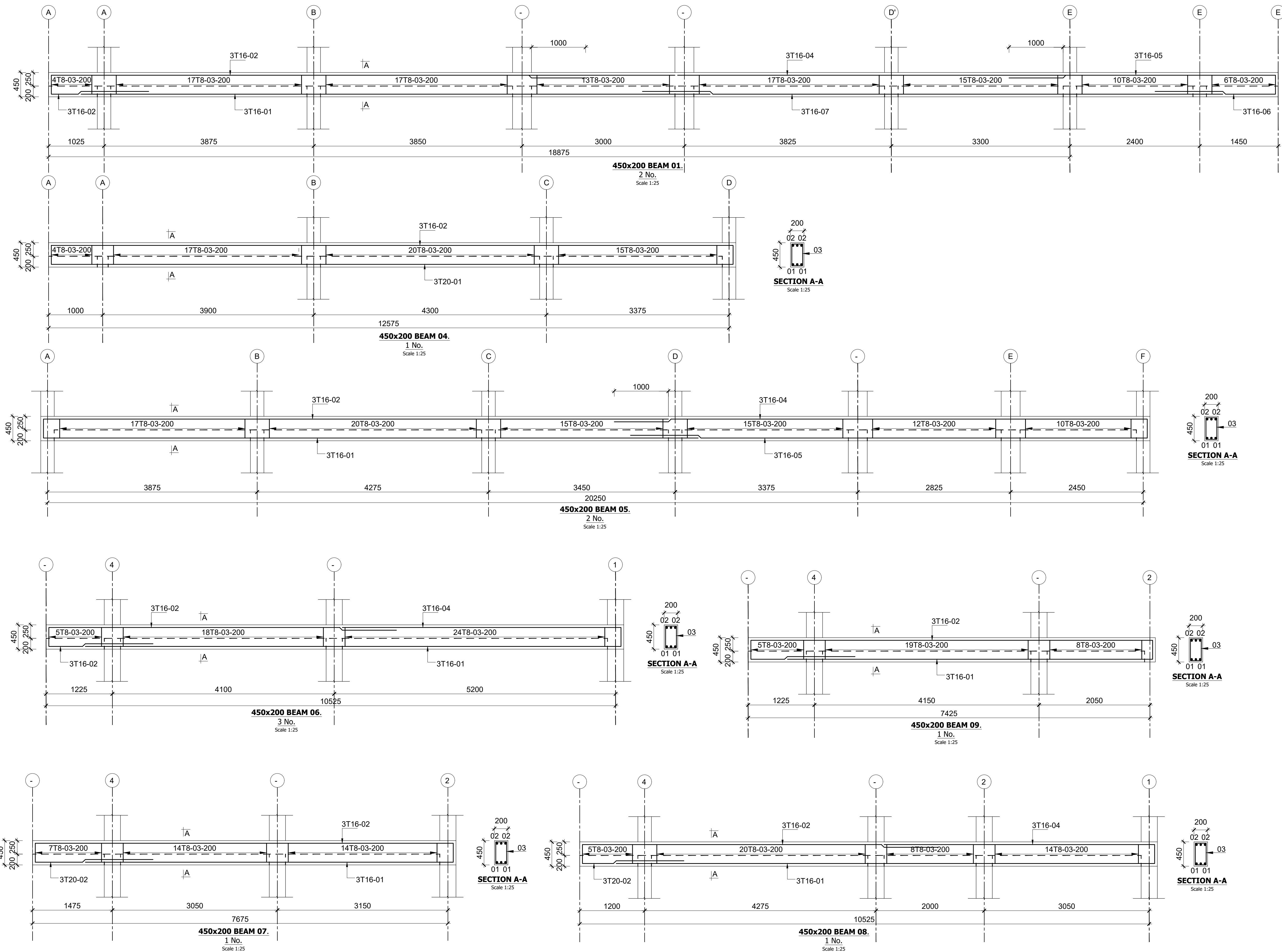
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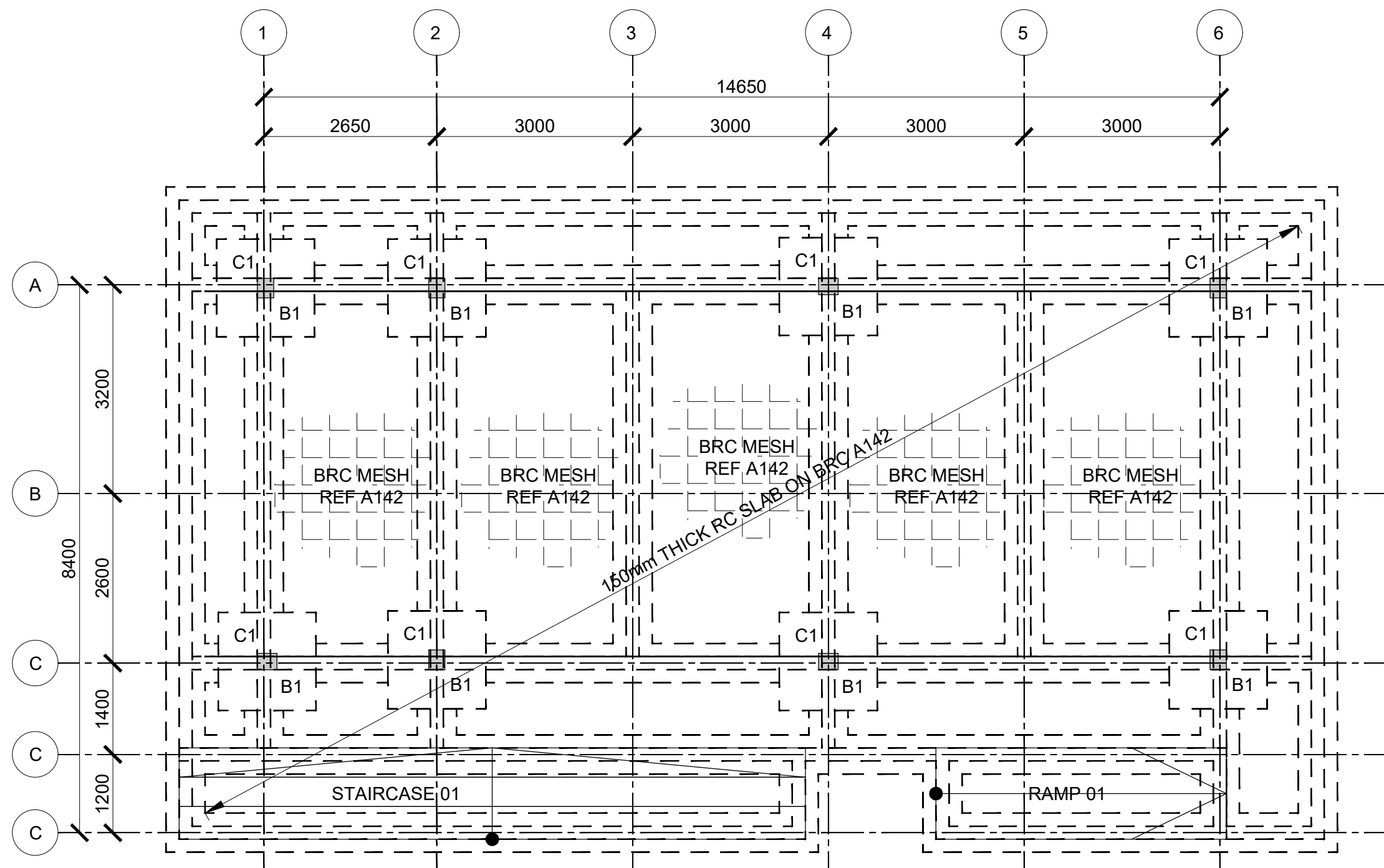


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| <div>Consultant:-</div> <div>ARPRIM CONSORTIUM</div> <div>P.O. Box 12969-00100,</div> <div>Nairobi, KENYA.</div> <div>Tel: 02 608 906</div> <div>Fax: 02 608 907</div> <div>E-mail: info@arprimconsultants.com</div> | CLIENT:-  | PROJECT:-   | PROJECT TITLE:-   | NOTES       | <table><tr><td>Designed by</td><td>DAN</td><td>Rev</td><td>Description</td><td>By</td><td>Date</td></tr><tr><td>Drawn by</td><td>DAN</td><td>D</td><td></td><td></td><td></td></tr><tr><td>Checked by</td><td>HOH</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> <div>DRAWING NO. 10-002-06</div> | Designed by | DAN  | Rev | Description | By | Date | Drawn by | DAN | D |  |  |  | Checked by | HOH | C |  |  |  | Scale | AS SHOWN | B |  |  |  |  |  | A |  |  |  |
|  | Designed by   | DAN   | Rev   | Description |  | By          | Date |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
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|  | Checked by  | HOH   | C   |             |  |             |      |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
|  | Scale   | AS SHOWN  | B   |             |  |             |      |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
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| STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.  | PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE. | PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY. | Stairs, Slabs & Walls = 35mm<br>Beams (main bars) = 35mm<br>Post-tensioned beams = 40mm<br>Columns (main bars) = 40mm<br>Foundations = 75mm<br>5. Maximum tolerance on concrete cure is +5/-5mm.<br>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 4449.<br>7. Minimum laps to all bars to be 500 unless stated otherwise.<br>8. Safe Bearing Pressure taken to be 250 KN/m².<br>9. Nominal aggregate size to be 20mm.<br>10. Structural concrete to be Class 25 unless stated otherwise.<br>11. Concrete binding to be Class 15 unless stated otherwise.<br>12. Masonry Strength to be 7.0 N/mm². |             |  |             |      |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
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|  |   |   | MODERN FISH BANDA - ROOF 01, ROOF 02, GUTTER AND COLUMN DETAIL  |             |  |             |      |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
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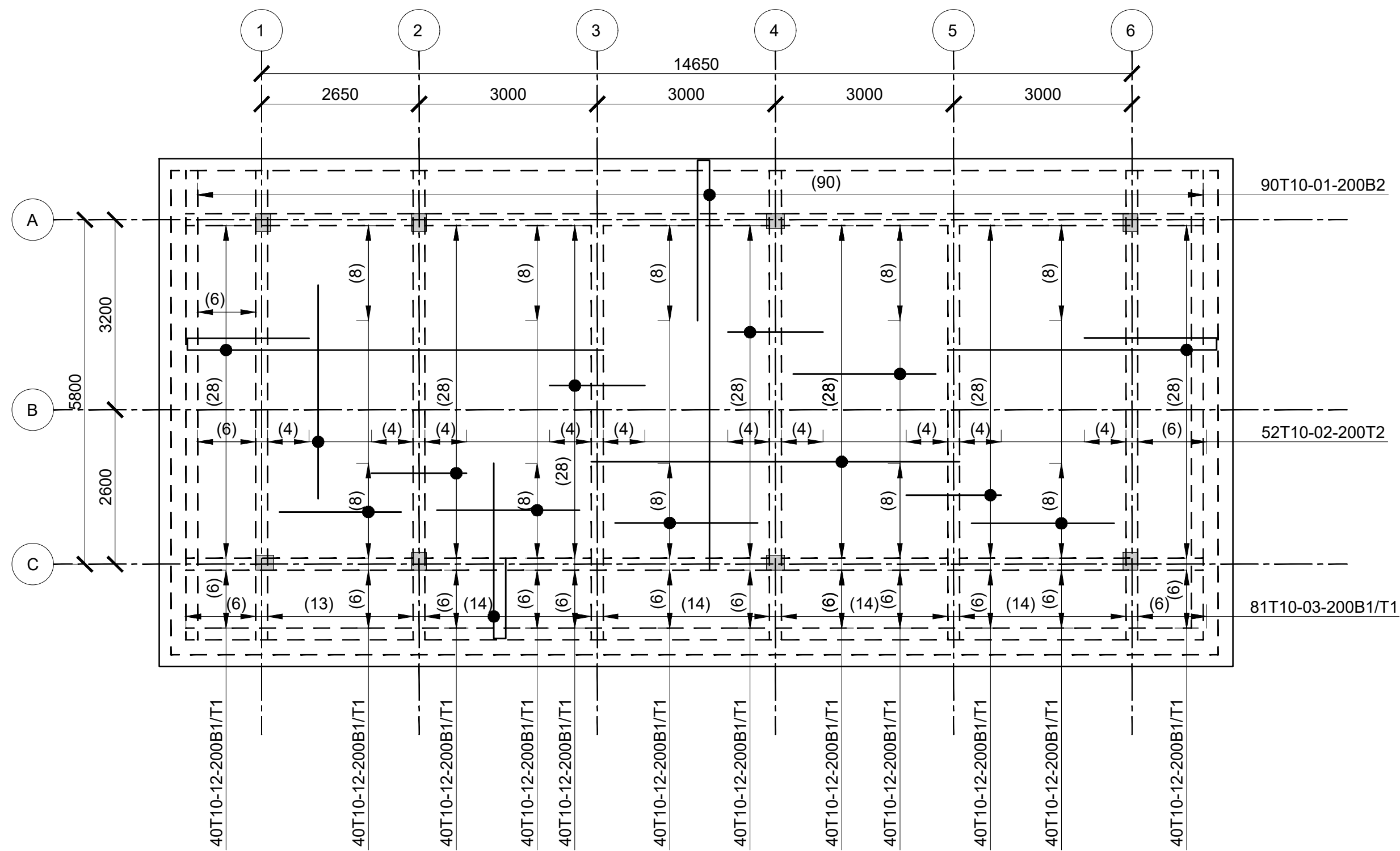




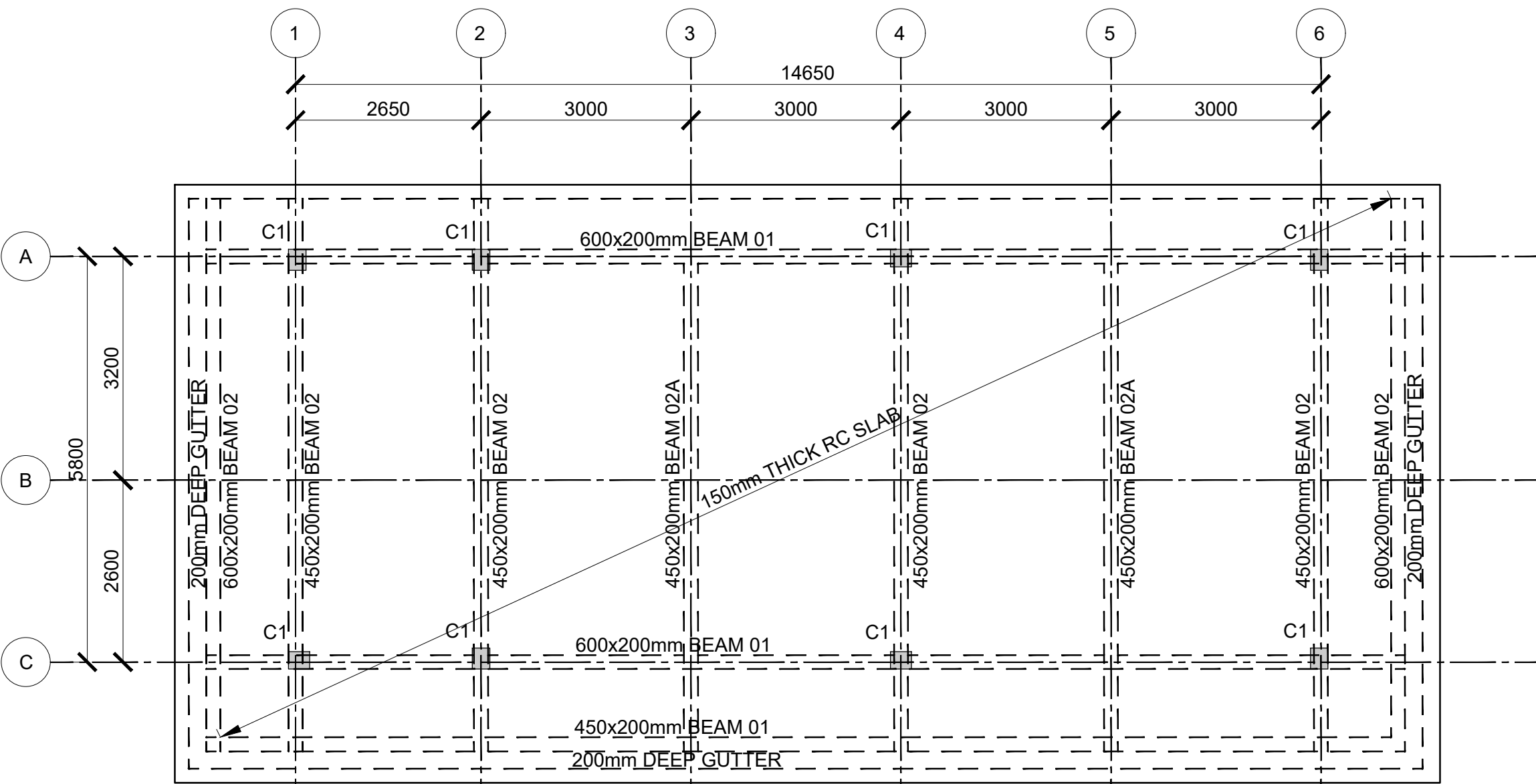
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| Consultant:-<br><br>ARPRIM CONSORTIUM<br>P.O. Box 12969-00100,<br>Nairobi, KENYA.<br>Tel: 02 608 906<br>Fax: 02 608 907<br>E-mail: info@arprimconsultants.com | CLIENT:-<br><br>STATE DEPARTMENT FOR FISHERIES,<br>AQUACULTURE AND THE BLUE ECONOMY. | PROJECT:-<br><br>PROPOSED KENYA MARINE FISHERIES AND<br>SOCIO-ECONOMIC DEVELOPMENT (KEMFSED) NATIONAL<br>AND COUNTY FISHERIES INFRASTRUCTURE. | PROJECT TITLE:-<br><br>PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY. | NOTES<br><br>1. Read this drawing in conjunction with relevant G.A.,<br>Services and Architectural drawings. Any discrepancy<br>to be reported to the Engineer.<br><br>2. All dimensions are in millimetres unless specified<br>otherwise.<br><br>3. All levels are indicated in m unless specified otherwise.<br><br>4. Minimum cover to all reinforcement to be:<br><br>Stairs, Slabs & Walls = 35mm<br>Beams (main bars) = 35mm<br>Post-tensioned beams = 40mm<br>Columns (main bars) = 40mm<br>Foundations = 75mm<br><br>5. Maximum tolerance on concrete cover is +/- 5mm.<br>6. All high tensile (T) and mild steel (R) bars to be in<br>accordance with BS 4449 and fabric mesh to be<br>made from cold worked steel bars in accordance<br>with BS 4483.<br><br>7. Minimum laps to all bars to be 500 unless stated otherwise. | 8. Safe Bearing Pressure taken to be 250 KN/m <sup>2</sup> .    | Designed by | DAN      | Rev | Description | By | Date |
|   |  |   |  |   | 9. Nominal aggregate size to be 20mm.                           | Drawn by    | DAN      | D   |             |    |      |
|   |  |   |  |   | 10. Structural concrete to be Class 25 unless stated otherwise. | Checked by  | HOH      | C   |             |    |      |
|   |  |   |  |   | 11. Concrete blinding to be Class 15 unless stated otherwise.   | Scale       | AS SHOWN | B   |             |    |      |
|   |  |   |  |   | 12. Masonry Strength to be 7.0 N/mm <sup>2</sup> .              |             |          | A   |             |    |      |
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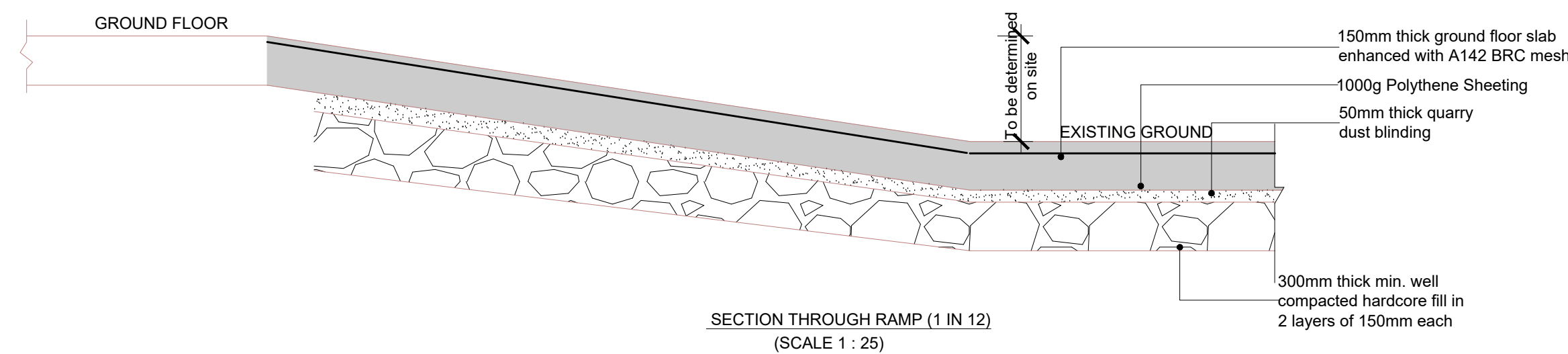
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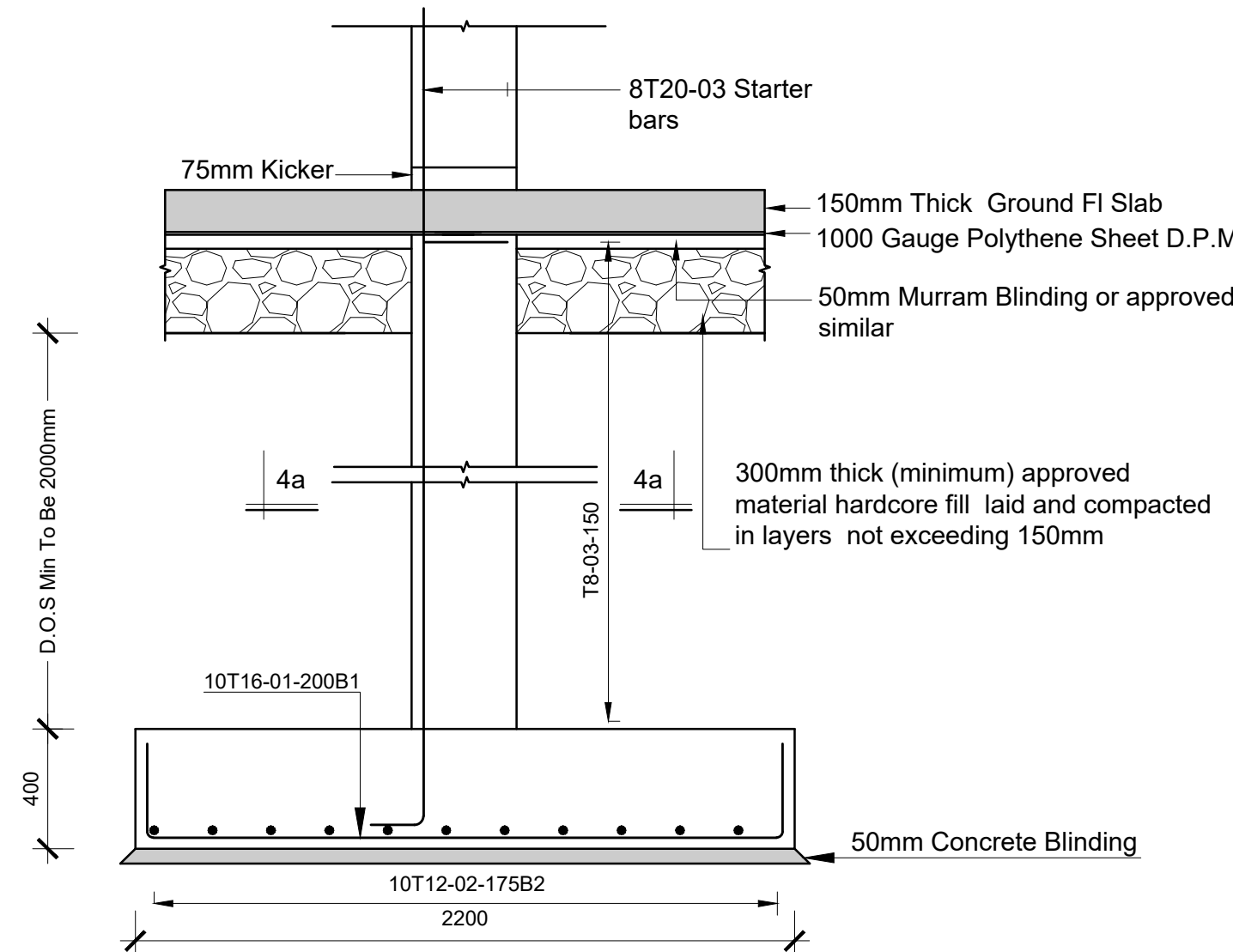
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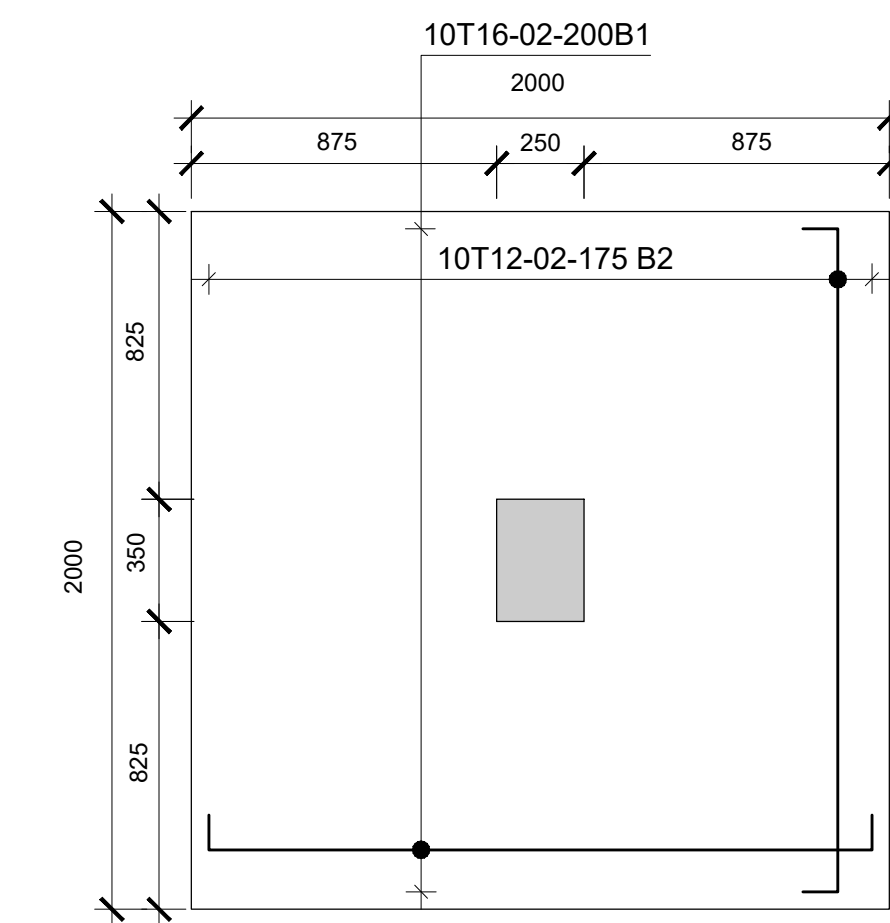
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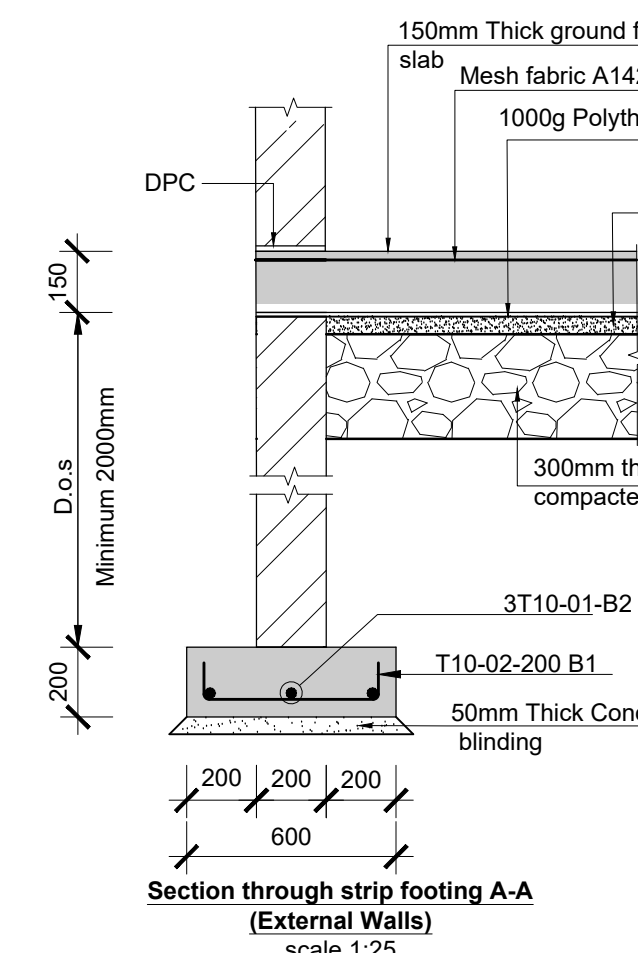
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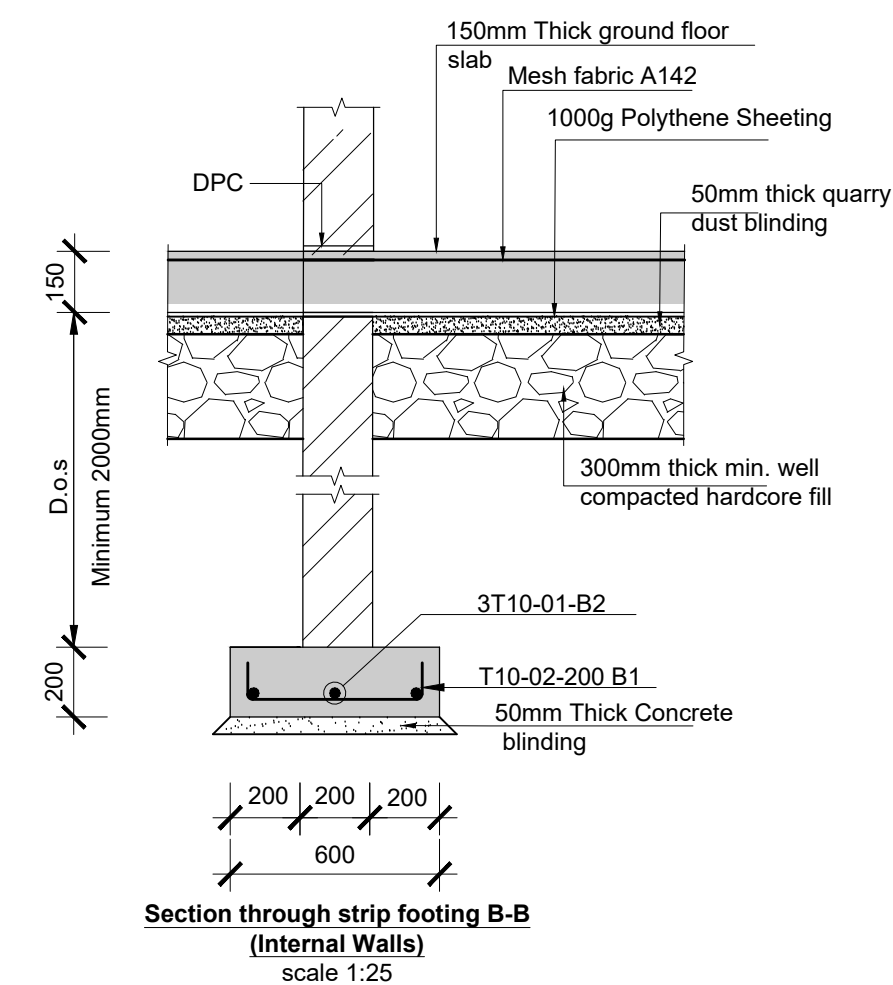
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Scale 1:30



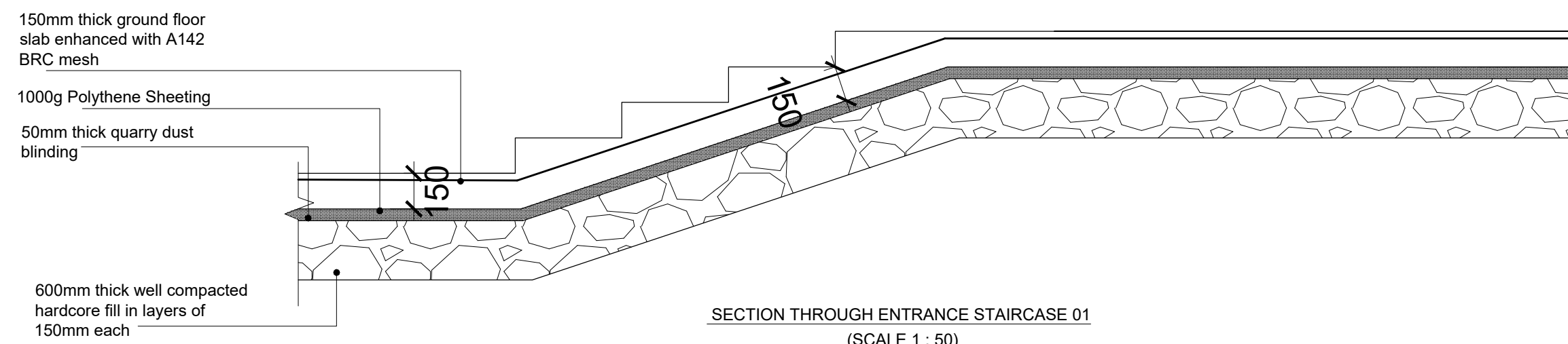
PLAN:-BASE B1  
8 No.  
Scale 1:30



Section through strip footing A-A  
(External Walls)  
scale 1:25



Section through strip footing B-B  
(Internal Walls)  
scale 1:25



SECTION THROUGH ENTRANCE STAIRCASE 01  
(SCALE 1:50)

Consultant:-  
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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 KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.**

DRAWING TITLE:-  
**FISH GEAR MENDING SHED - FOUNDATION LAYOUT AND DETAIL**

#### 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 m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

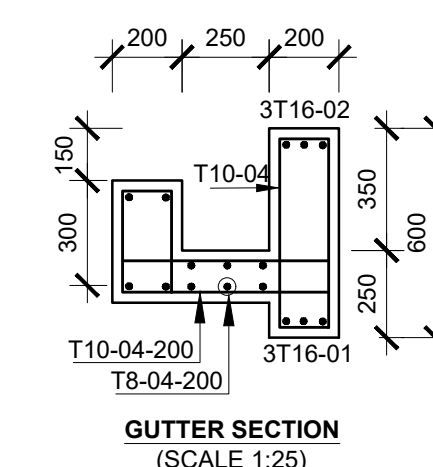
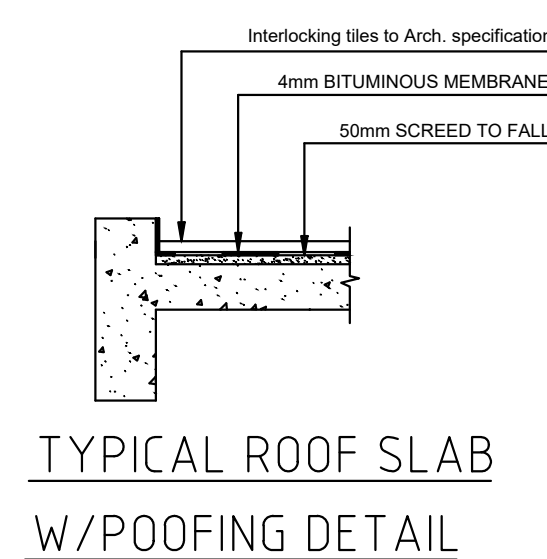
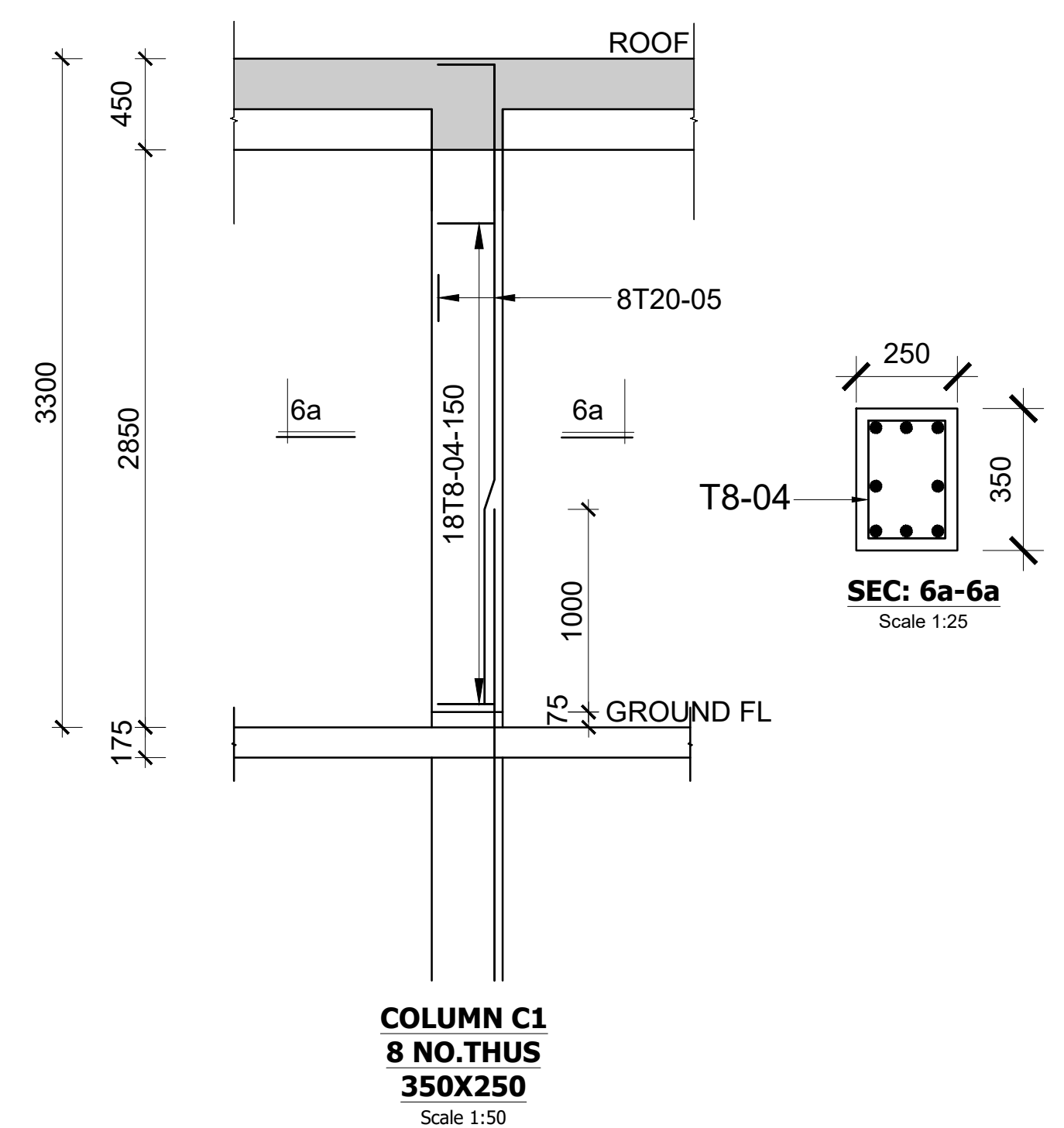
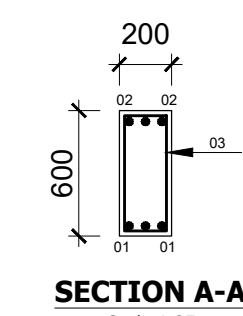
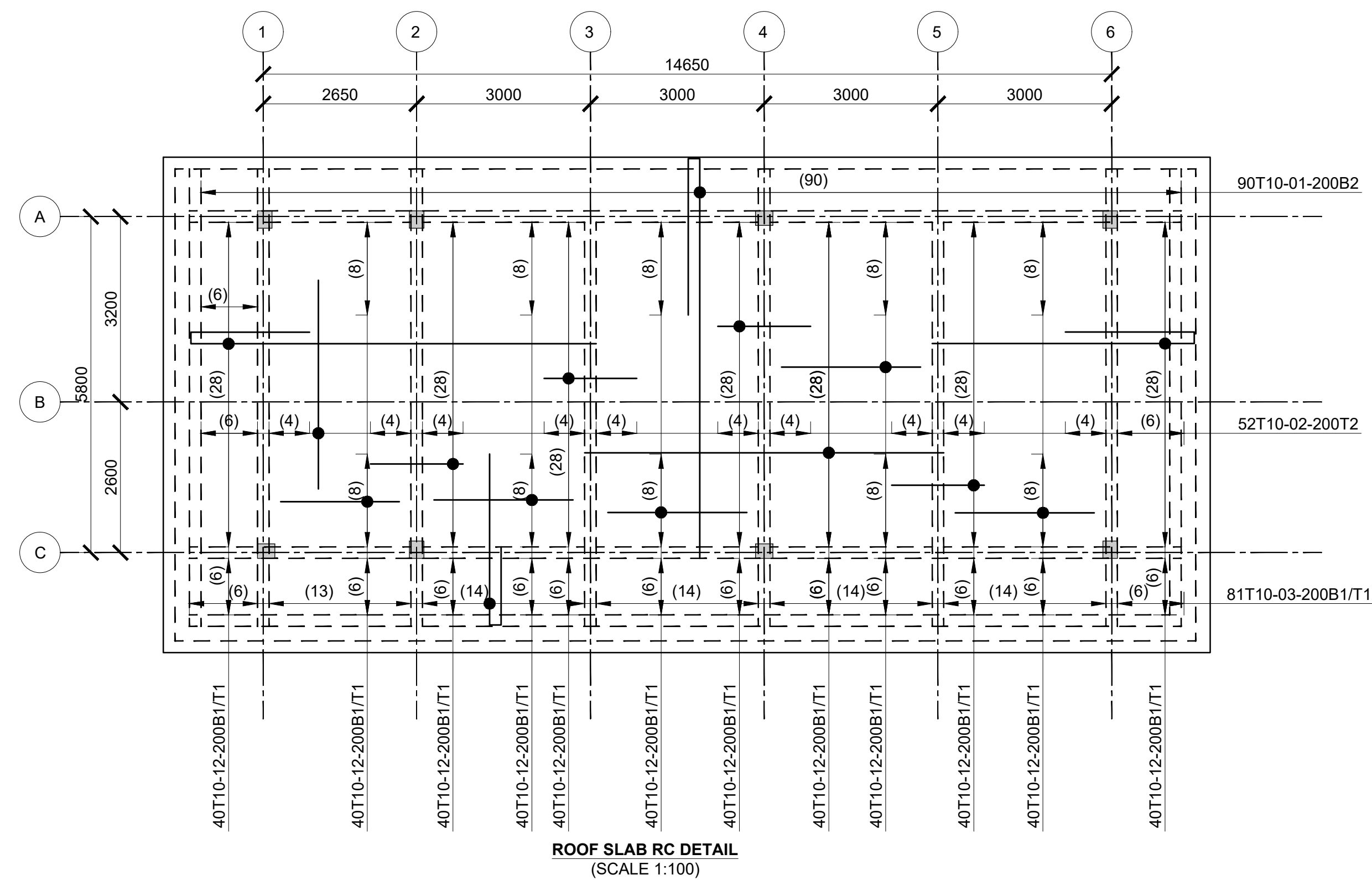
- Stairs, Slabs & Walls = 35mm
- Beams (main bars) = 35mm
- Post-tensioned beams = 40mm
- Columns (main bars) = 40mm
- Foundations = 75mm
- 5. Maximum tolerance on concrete cover is +/- 5mm.
- 6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.
- 7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 250 KN/m<sup>2</sup>.
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.

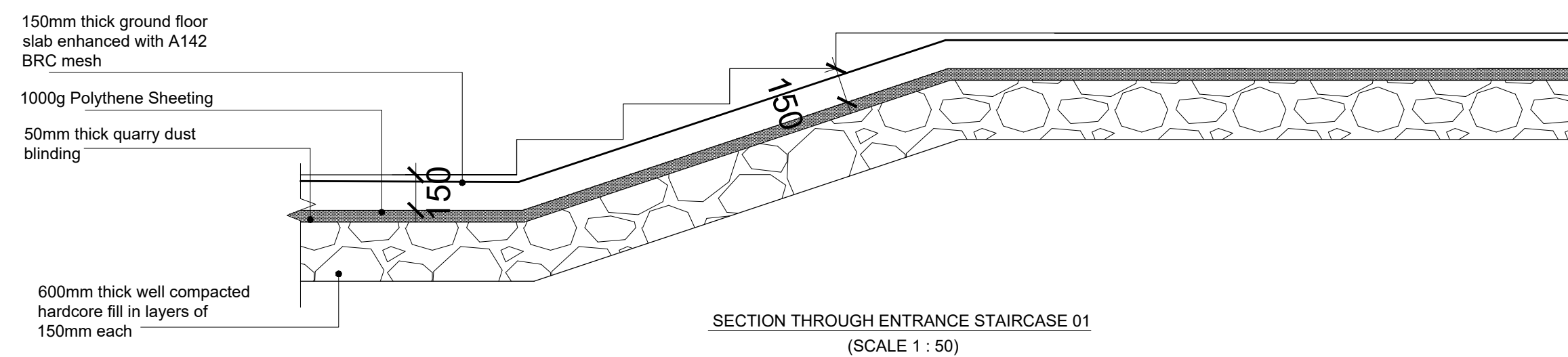
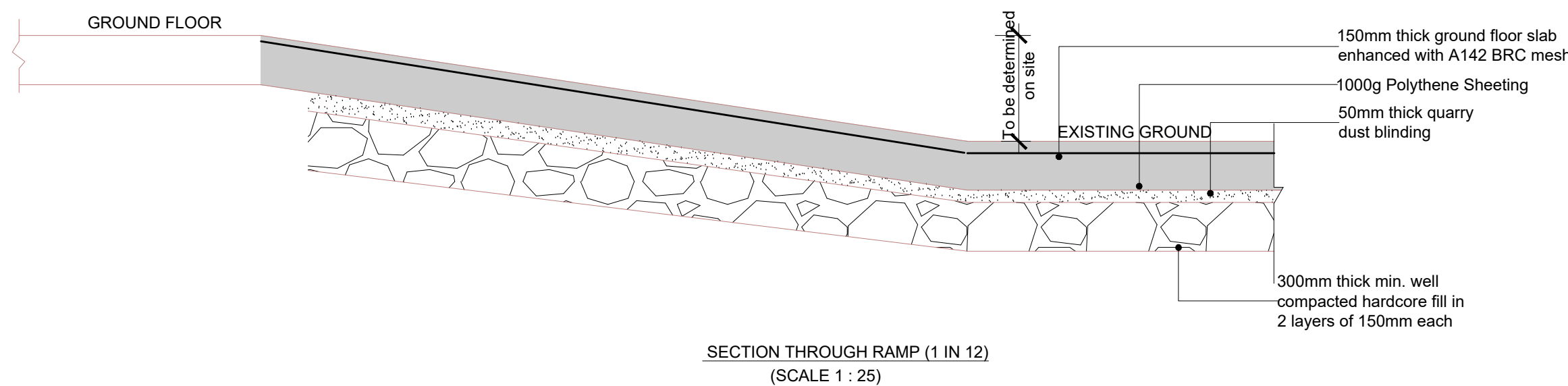
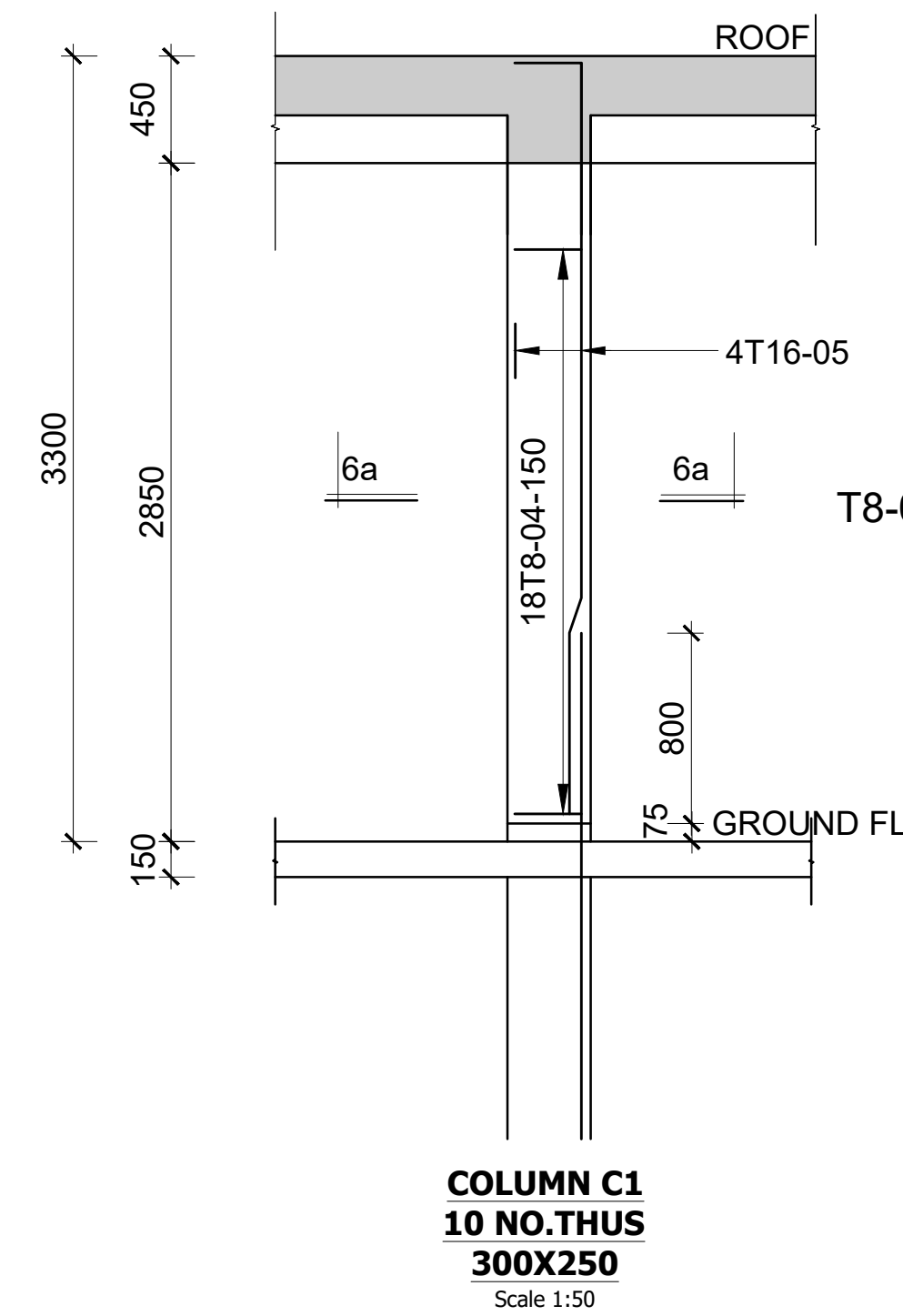
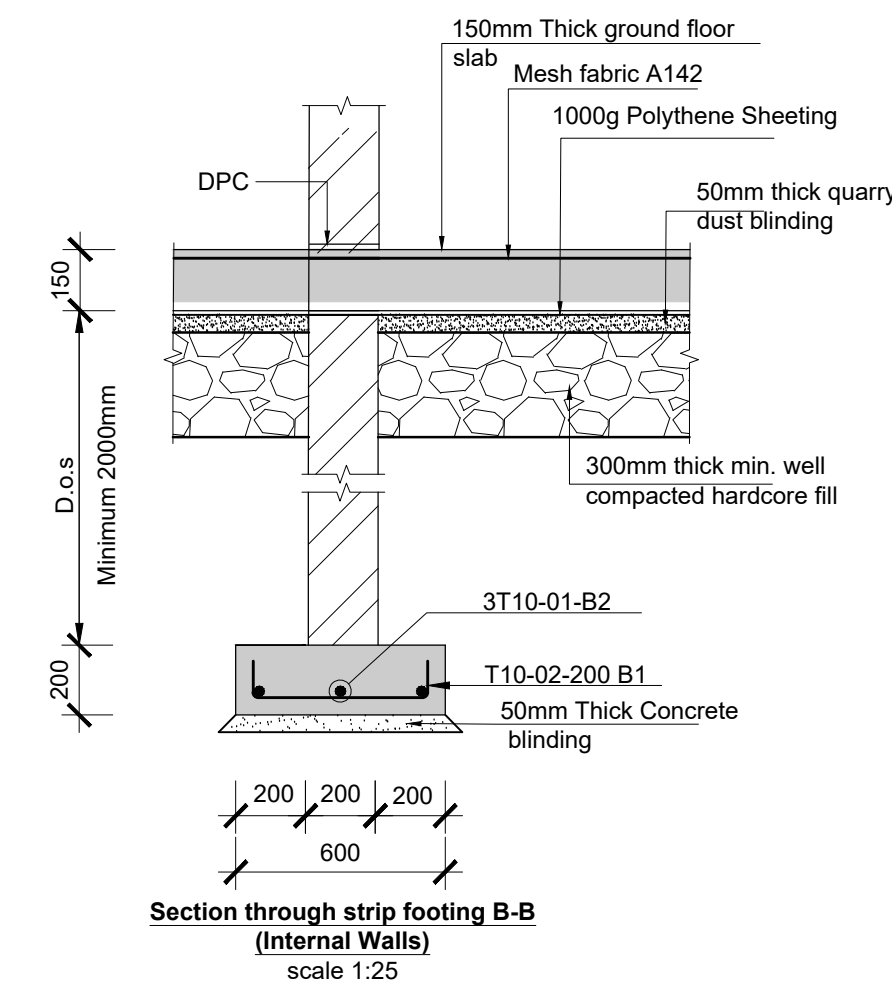
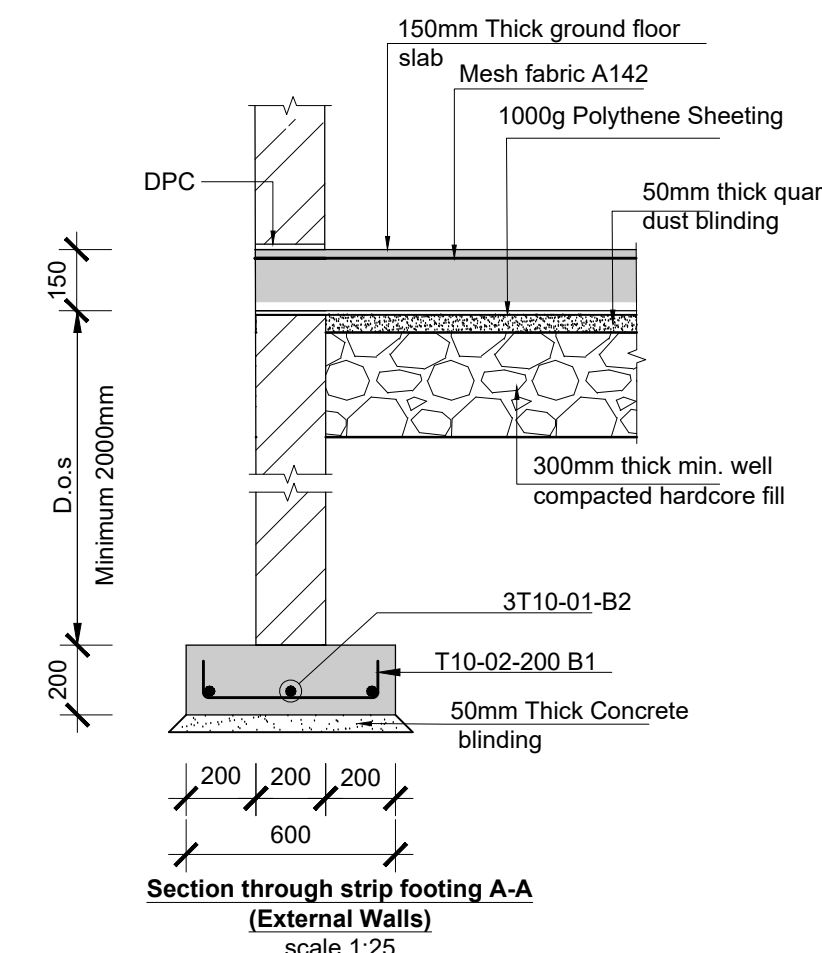
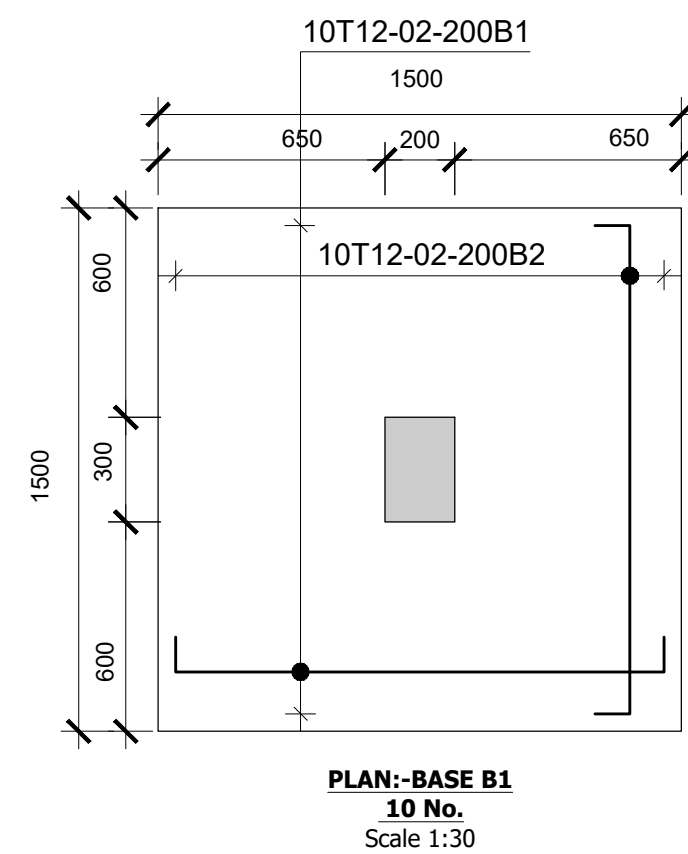
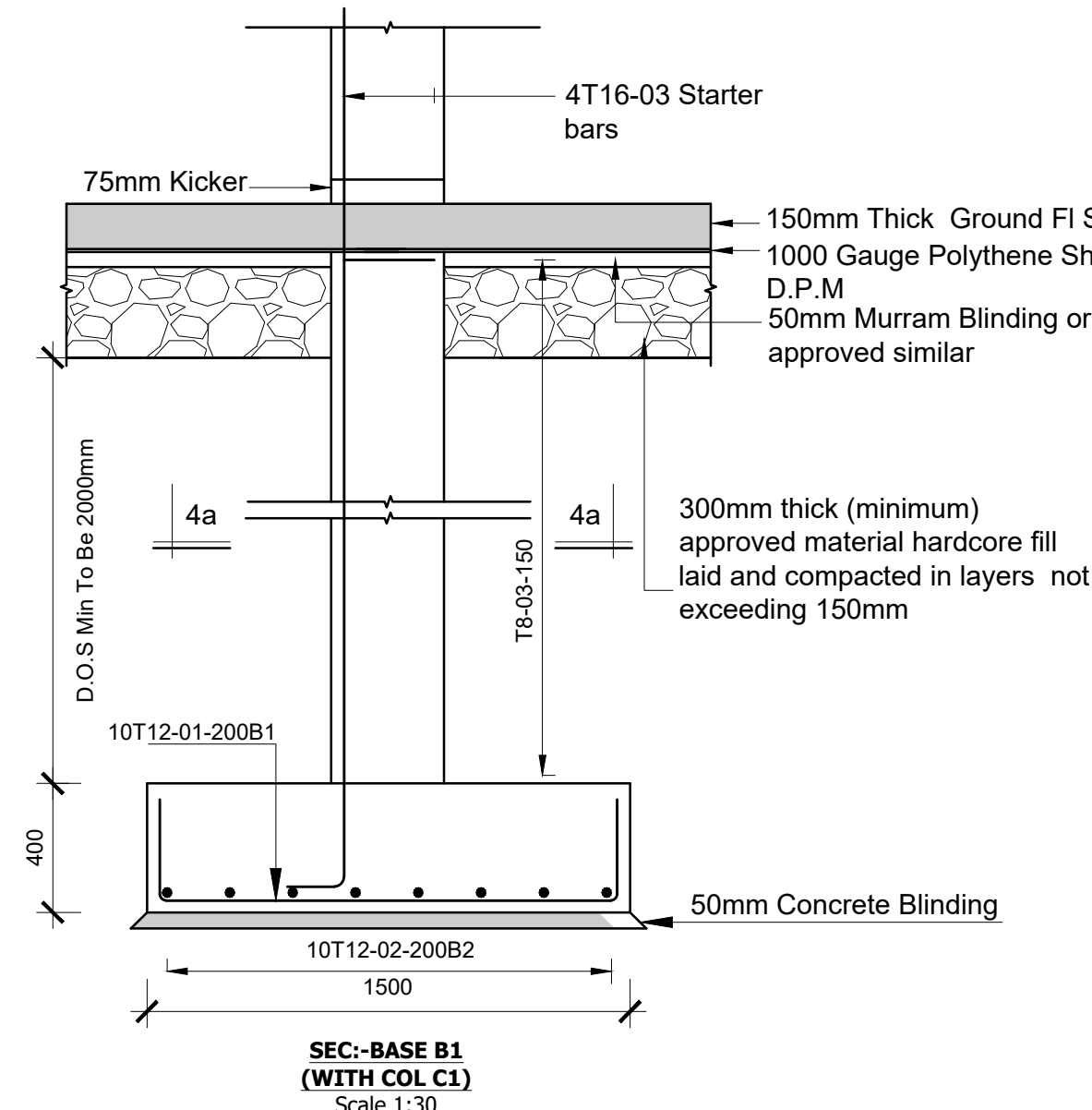
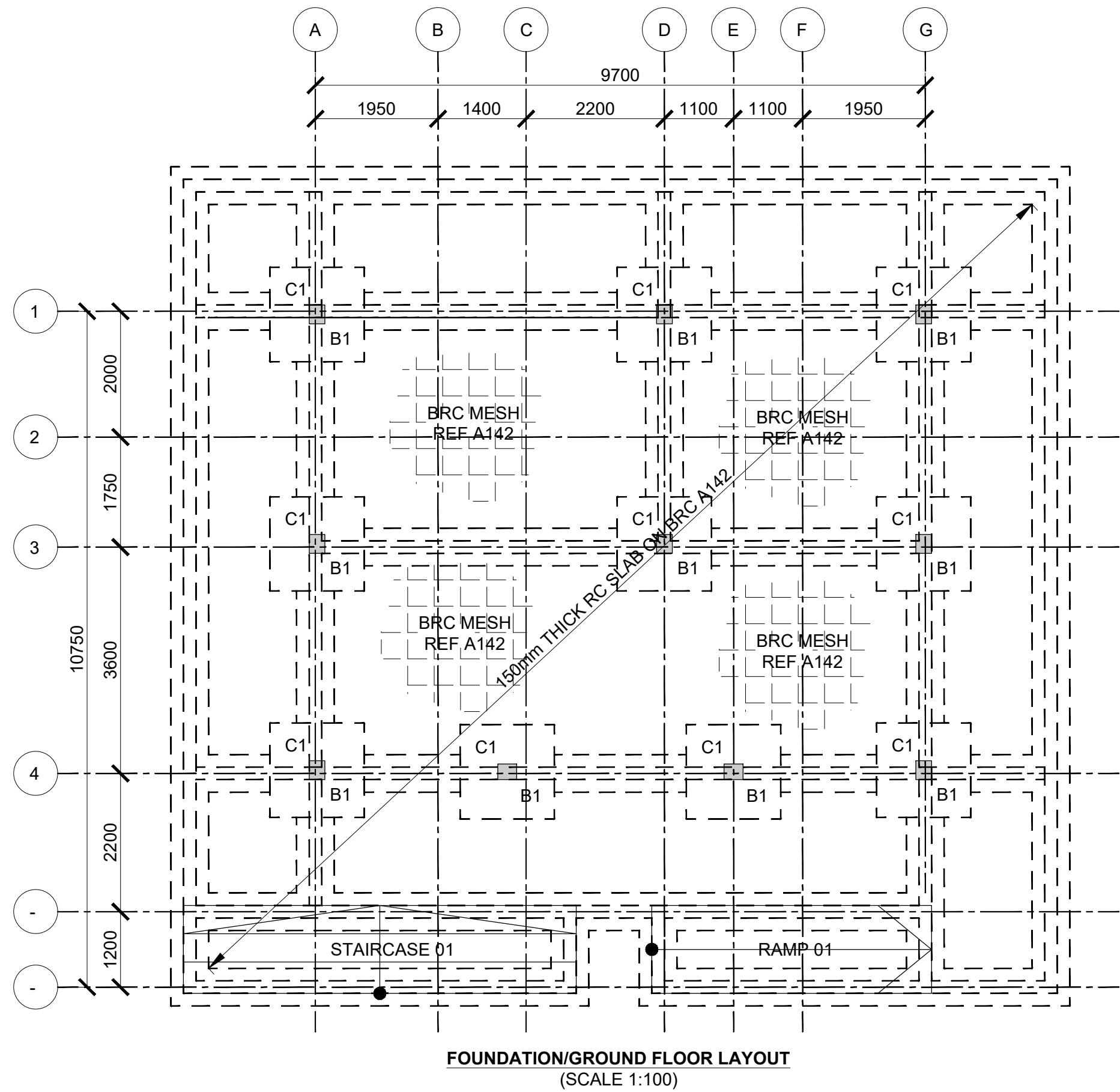
| Designed by | DAN      | Rev | Description | By | Date |
|-------------|----------|-----|-------------|----|------|
| Drawn by    | DAN      | D   |             |    |      |
| Checked by  | HOH      | C   |             |    |      |
| Scale       | AS SHOWN | B   |             |    |      |
|             |          | A   |             |    |      |

DRAWING NO. 10-002-08





|  |   |   |   |  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
|--|---|---|---|--|---|----|------|----------|-----|---|--|--|--|------------|-----|---|--|--|--|-------|----------|---|--|--|--|--|--|---|--|--|--|--|
| <div>Consultant:-</div> <div>APRIM CONSORTIUM</div> <div>P. O. Box 12069-00100,</div> <div>Nairobi, KENYA</div> <div>Tel: 02 608 906</div> <div>Fax: 02 608 907</div> <div>E-mail: info@aprimconsultants.com</div> | CLIENT:-  | PROJECT:-   | PROJECT TITLE:-   | NOTES  | <div>8. Safe Bearing Pressure taken to be 250 KN/m<sup>2</sup>.</div> <div>9. Nominal aggregate size to be 20mm.</div> <div>10. Structural concrete to be Class 25 unless stated otherwise.</div> <div>11. Concrete binding to be Class 15 unless stated otherwise.</div> <div>12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.</div> |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
|  | STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.   | PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFED) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE. | PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY. | <div>Stairs, Slabs &amp; Walls = 35mm</div> <div>Beams (main bars) = 35mm</div> <div>Post-tensioned beams = 40mm</div> <div>Columns (main bars) = 40mm</div> <div>Foundations = 75mm</div> <div>5. Maximum tolerance on concrete cover is +1.5mm.</div> <div>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.</div> <div>7. Minimum laps to all bars to be 500 unless stated otherwise.</div> |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
|  |   |   |   | <div>1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.</div> <div>2. All dimensions are in millimetres unless specified otherwise.</div> <div>3. All levels are indicated in m unless specified otherwise.</div> <div>4. Minimum cover to all reinforcement to be:</div>  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
|  |   |   |   | <div>DRAWING TITLE:-</div> <div>FISH GEAR MENDING SHED - ROOF, COLUMN AND BEAM DETAIL</div>  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
|  |   |   |   |  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
|  | <table><tr><td>Designed by</td><td>DAN</td><td>Rev</td><td>Description</td><td>By</td><td>Date</td></tr><tr><td>Drawn by</td><td>DAN</td><td>D</td><td></td><td></td><td></td></tr><tr><td>Checked by</td><td>HOH</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   | DAN   | Rev  | Description   | By | Date | Drawn by | DAN | D |  |  |  | Checked by | HOH | C |  |  |  | Scale | AS SHOWN | B |  |  |  |  |  | A |  |  |  |  |
| Designed by  | DAN   | Rev   | Description   | By   | Date  |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
| Drawn by   | DAN   | D   |   |  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
| Checked by   | HOH   | C   |   |  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
| Scale  | AS SHOWN  | B   |   |  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
|  |   | A   |   |  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |
|  | <div>DRAWING NO. 10-002-09</div>  |   |   |  |   |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |  |



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 (KEMFSED) NATIONAL  
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-  
**PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.**

DRAWING TITLE:-  
**FISH GEAR STORE AND ABLUTION - FOUNDATION, RAMP,  
STAIRCASE AND COLUMN DETAIL**

#### 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 m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

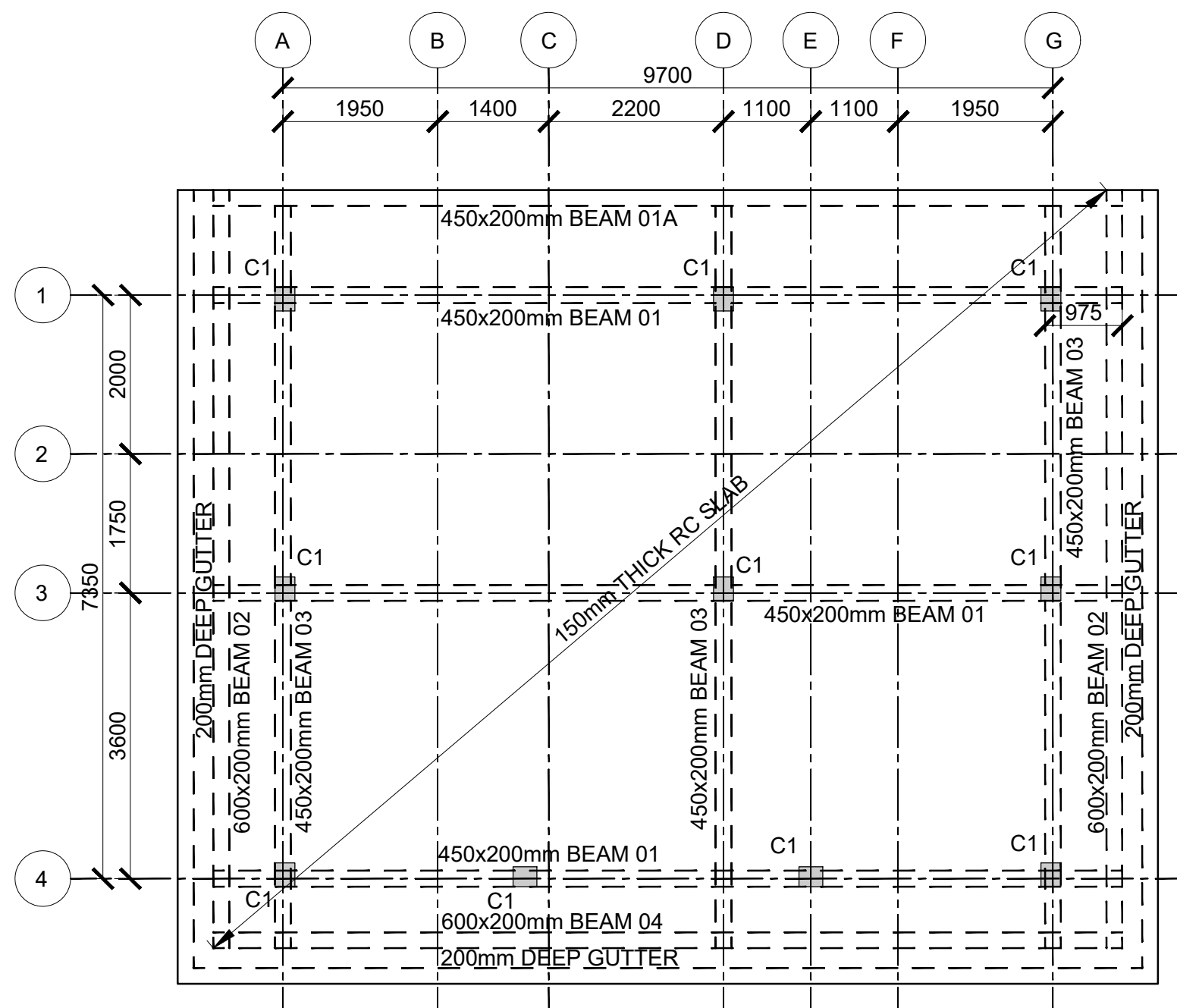
5. Maximum tolerance on concrete cover is +/- 5mm.
6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.
7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 250 KN/m<sup>2</sup>.
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.

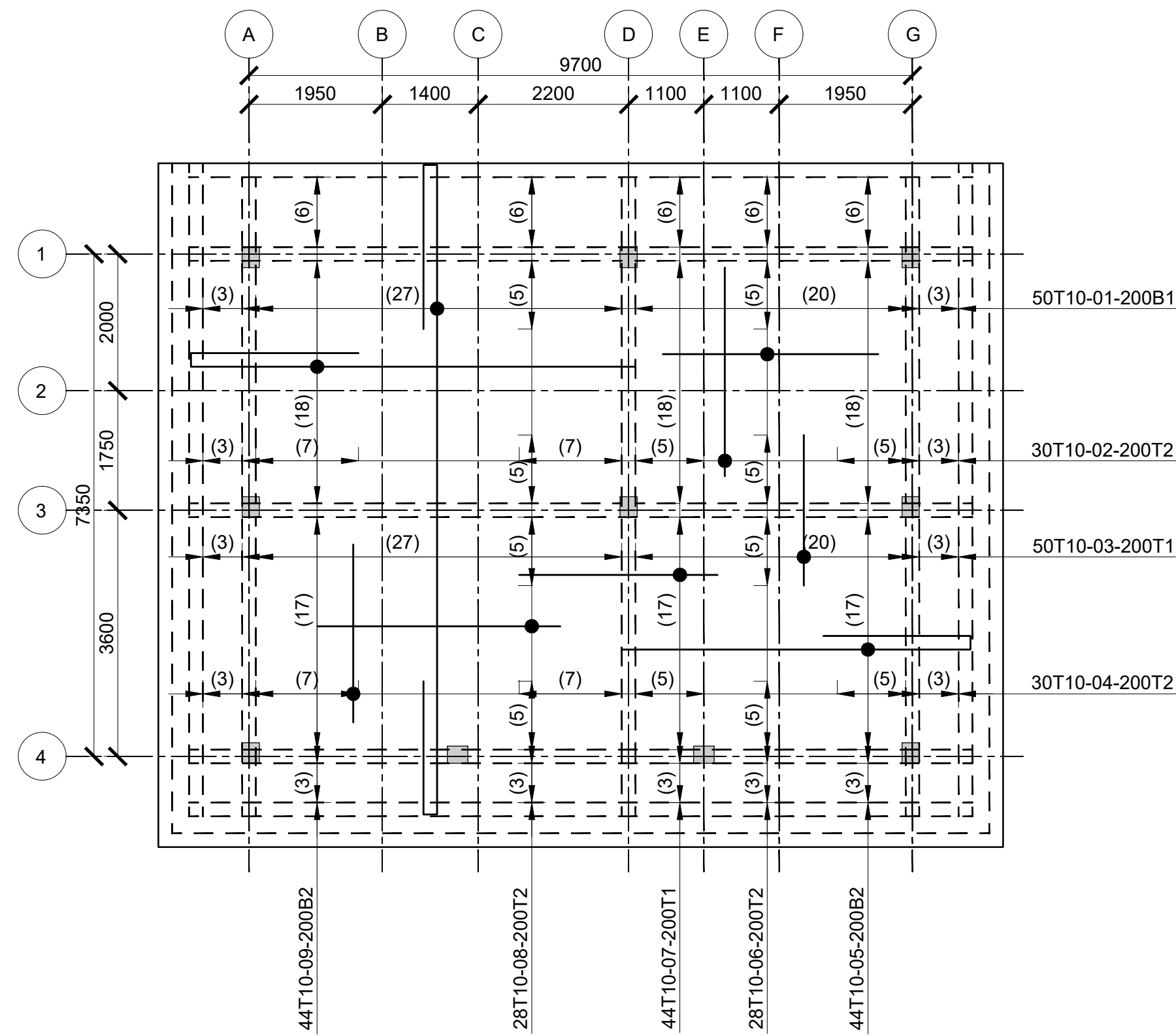
| Designed by | DAN      | Rev | Description | By | Date |
|-------------|----------|-----|-------------|----|------|
| Drawn by    | DAN      | D   |             |    |      |
| Checked by  | HOH      | C   |             |    |      |
| Scale       | AS SHOWN | B   |             |    |      |
|             |          | A   |             |    |      |

DRAWING NO. 10-002-10

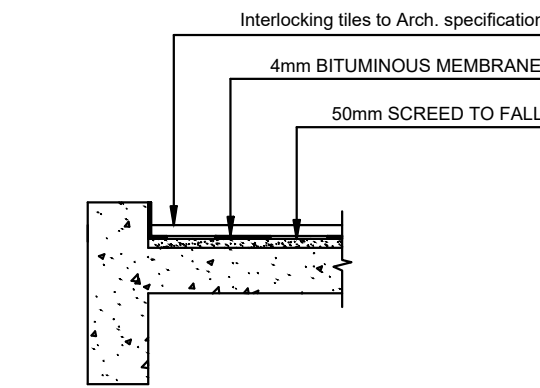




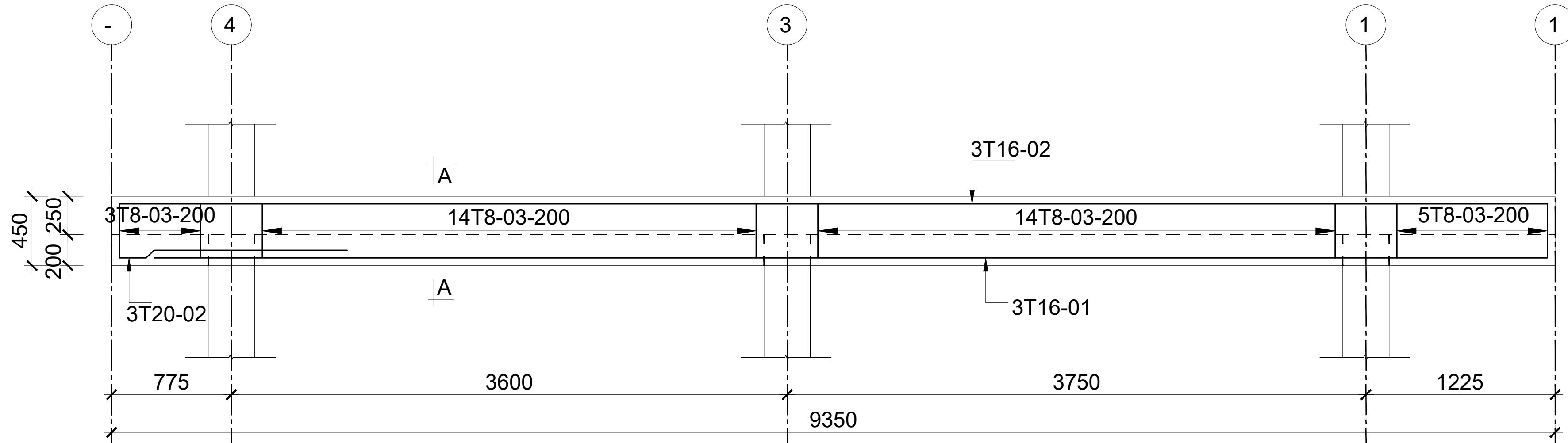
ROOF LAYOUT  
(SCALE 1:100)



ROOF SLAB RC DETAIL  
(SCALE 1:100)

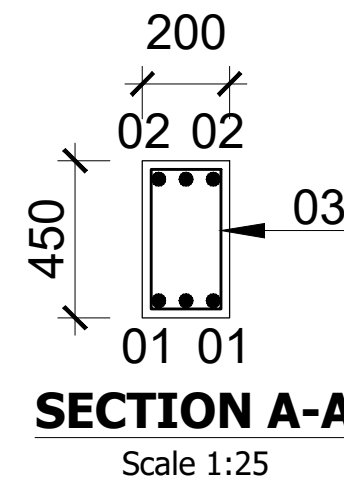


TYPICAL ROOF SLAB  
W/POOFING DETAIL

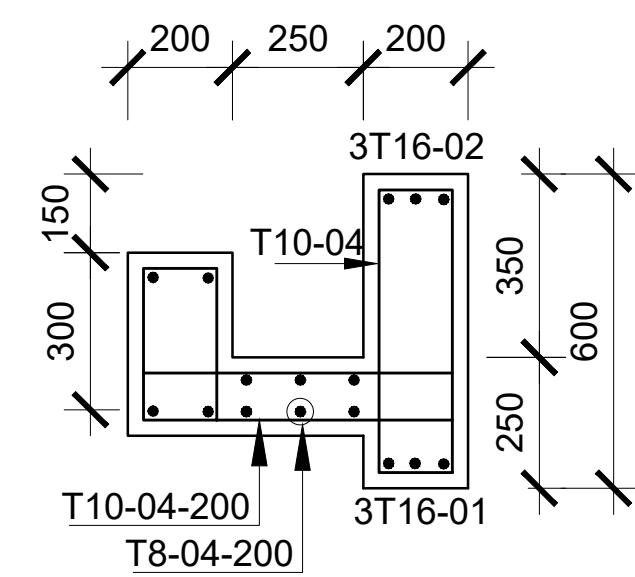


450x200 BEAM 03.

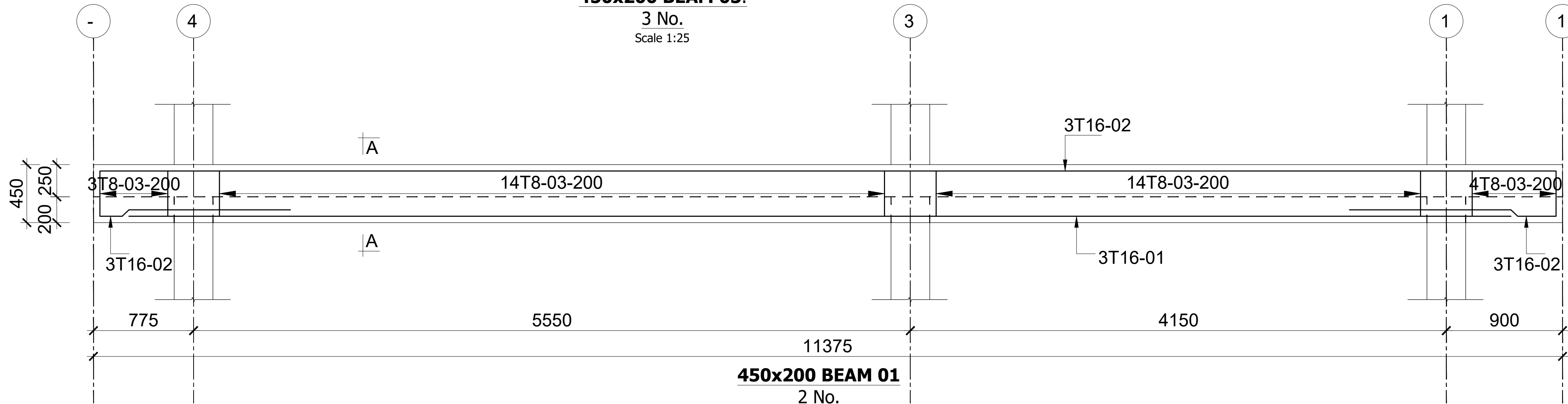
3 No.  
Scale 1:25



SECTION A-A  
Scale 1:25

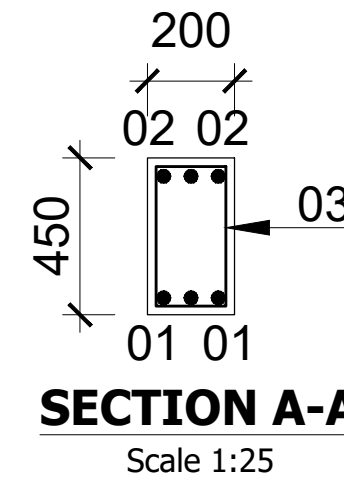


GUTTER SECTION  
(SCALE 1:25)



450x200 BEAM 01

2 No.  
Scale 1:25



SECTION A-A  
Scale 1:25

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 (KEMFSED) NATIONAL  
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-  
**PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.**

DRAWING TITLE:-  
**FISH GEAR STORE AND ABLUTION - ROOF, GUTTER AND  
BEAM DETAIL**

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 m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

- Stairs, Slabs & Walls = 35mm
- Beams (main bars) = 35mm
- Post-tensioned beams = 40mm
- 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 4483.
- 7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 250 N/mm<sup>2</sup>.
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.

| Designed by | DAN      | Rev | Description | By | Date |
|-------------|----------|-----|-------------|----|------|
| Drawn by    | DAN      | D   |             |    |      |
| Checked by  | HOH      | C   |             |    |      |
| Scale       | AS SHOWN | B   |             |    |      |
|             |          | A   |             |    |      |

DRAWING NO. 10-002-11



**FOUNDATION/GROUND FLOOR LAYOUT**  
(SCALE 1:100)

**ROOF LAYOUT**  
(SCALE 1:100)

**ROOF SLAB RC DETAIL**  
(SCALE 1:100)

**SEC:-BASE B**  
**(WITH COL C**  
Scale 1:25

**PLAN:-BASE B1**  
**10 No.**  
Scale 1:25

**Section through strip footing A-A**  
**(External Walls)**  
scale 1:25

**Section through strip footing B-B**  
**(Internal Walls)**  
scale 1:25

**SECTION A-A**

**GUTTER SECTION**  
(SCALE 1:25)

TYPICAL ROOF SLAB  
W/POOFING DETAIL

**SECTION A-A**  
Scale 1:50

**SEC: 6a-6a**  
Scale 1:25

Consultant:-  
**ARPRIM CONSORTIUM**  
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Fax: 02 608 907  
E-mail: [info@arprimconsultants.com](mailto: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 KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.**

**DRAWING TITLE:-**  
**PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY - POWER ROOM**

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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 m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

|                       |        |
|-----------------------|--------|
| Stairs, Slabs & Walls | = 35mm |
| Beams (main bars)     | = 35mm |
| Post-tensioned beams  | = 40mm |
| 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 4483.

7. Minimum laps to all bars to be 500 unless stated

8. Safe Bearing Pressure taken to be 250 kN/m<sup>2</sup>
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated
11. Concrete blinding to be Class 15 unless stated
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.

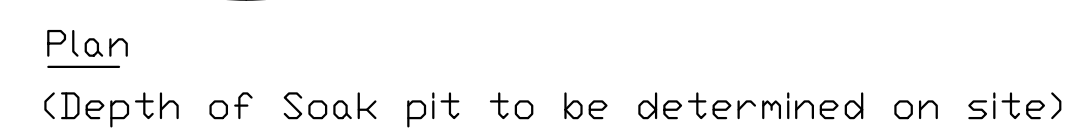
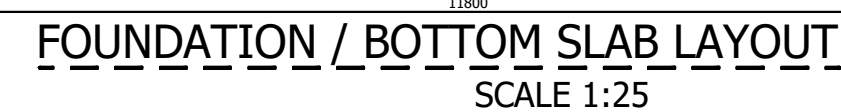
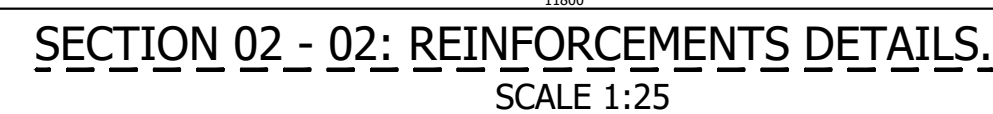
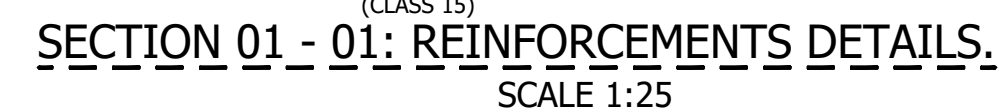
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|-------------|----------|-----|-------------|----|------|
| Designed by | DAN      | Rev | Description | By | Date |
| Drawn by    | DAN      | D   |             |    |      |
| Checked by  | HOH      | C   |             |    |      |
| Scale       | AS SHOWN | B   |             |    |      |
|             |          |     |             |    |      |

**DRAWING NO. 10-002-12**



|   |   |   |   |   |  |  |   |   |
|---|---|---|---|---|--|--|---|---|
| <div>Consultant:-</div> <div>APRIM CONSORTIUM</div> <div>P.O. Box 12069-00100,</div> <div>Nairobi, KENYA</div> <div>Tel: 02 608 906</div> <div>Fax: 02 608 907</div> <div>E-mail: info@aprimconsultants.com</div> | CLIENT:-  | PROJECT:-   | PROJECT TITLE:-   | NOTES   | <div>8. Safe Bearing Pressure taken to be 250 KN/m<sup>2</sup>.</div> <div>9. Nominal aggregate size to be 20mm.</div> <div>10. Structural concrete to be Class 25 unless stated otherwise.</div> <div>11. Concrete blinding to be Class 15 unless stated otherwise.</div> <div>12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.</div> |  |   |   |
|   | STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY. | PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFED) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE. | PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY. | <div>Stairs, Slabs &amp; Walls</div> <div>Beams (main bars) = 35mm</div> <div>Post-tensioned beams = 40mm</div> <div>Columns (main bars) = 40mm</div> <div>Foundations = 75mm</div> <div>5. Maximum tolerance on concrete cover is +1.5mm.</div> <div>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.</div> <div>7. Minimum laps to all bars to be 500 unless stated otherwise.</div> |  |  |   |   |
|   |   |   |   | <div>1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.</div> <div>2. All dimensions are in millimetres unless specified otherwise.</div> <div>3. All levels are indicated in m unless specified otherwise.</div> <div>4. Minimum cover to all reinforcement to be:</div>   |  |  |   |   |
|   |   |   |   | <div>DRAWING TITLE:-</div> <div>PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY - PUMP ROOM</div>  |  |  |   |   |
|   |   |   |   |   |  |  |   |   |
|   |   |   |   | <div>Designed by: DAN</div> <div>Drawn by: DAN</div> <div>Checked by: HOH</div> <div>Scale: AS SHOWN</div>  | <div>Rev</div> <div>D</div> <div>C</div> <div>B</div> <div>A</div>   | <div>Description</div> <div></div> <div></div> <div></div> <div></div> | <div>By</div> <div></div> <div></div> <div></div> <div></div> | <div>Date</div> <div></div> <div></div> <div></div> <div></div> |
| <div>DRAWING NO. 10-002-13</div>  |   |   |   |   |  |  |   |   |

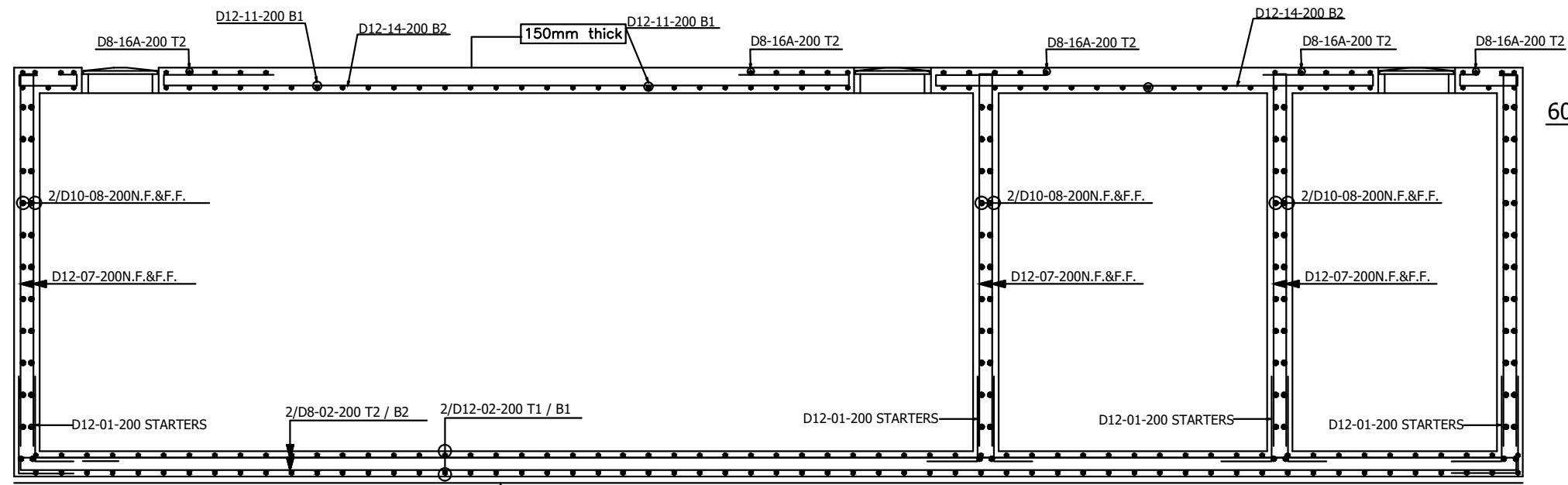




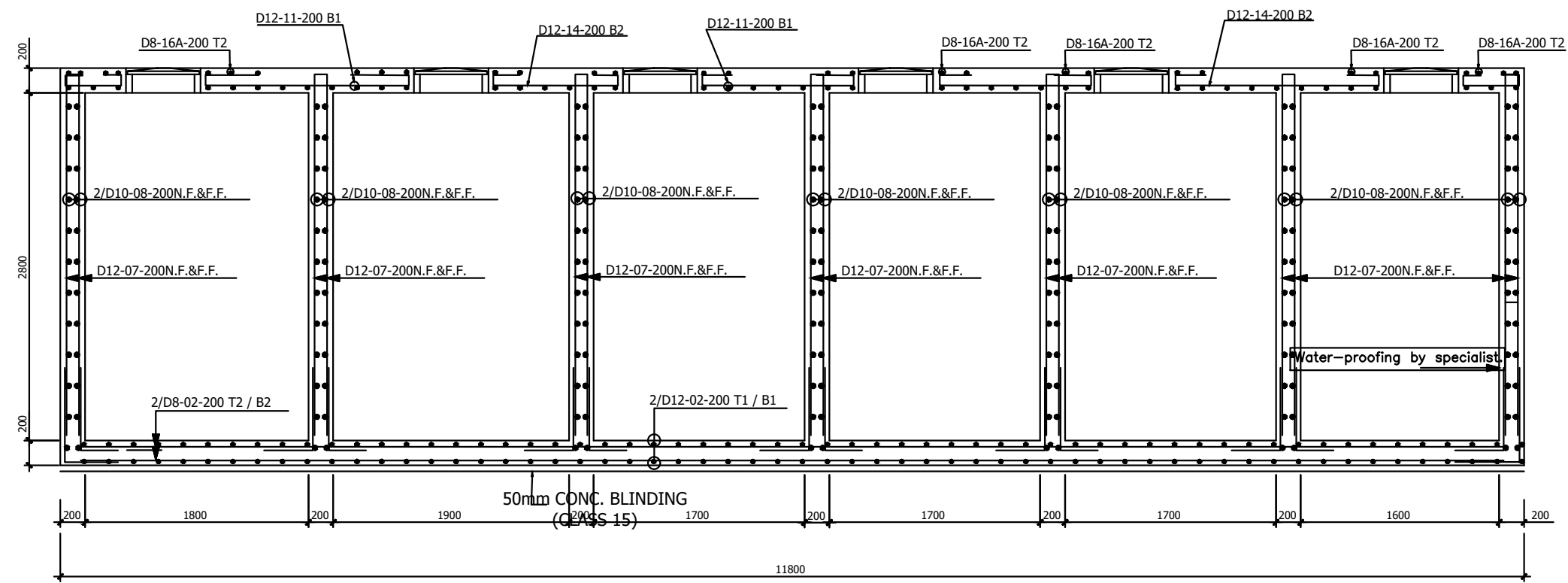
## SOAK PIT DETAILS

DRAWING NO. 10-002-14

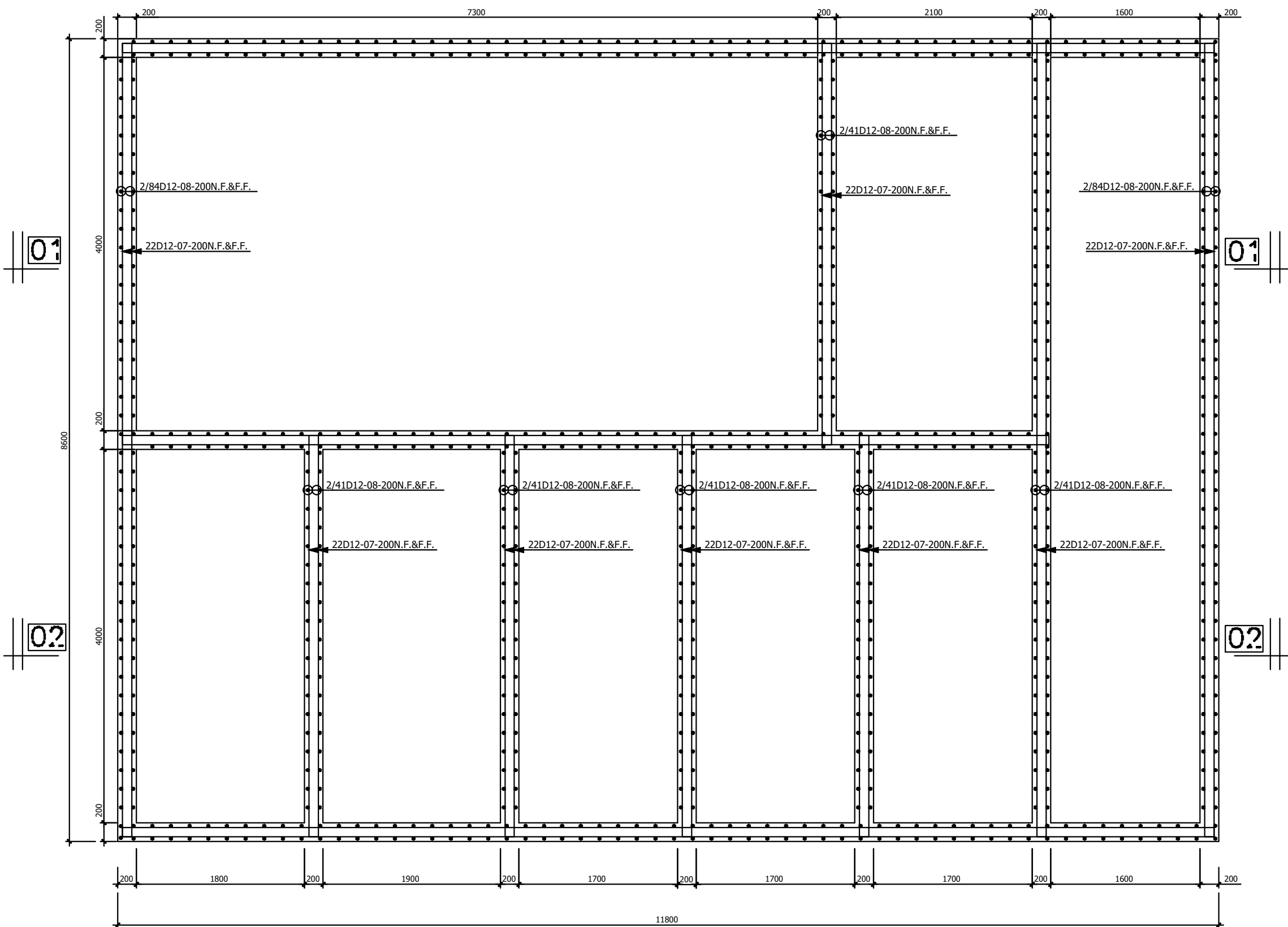




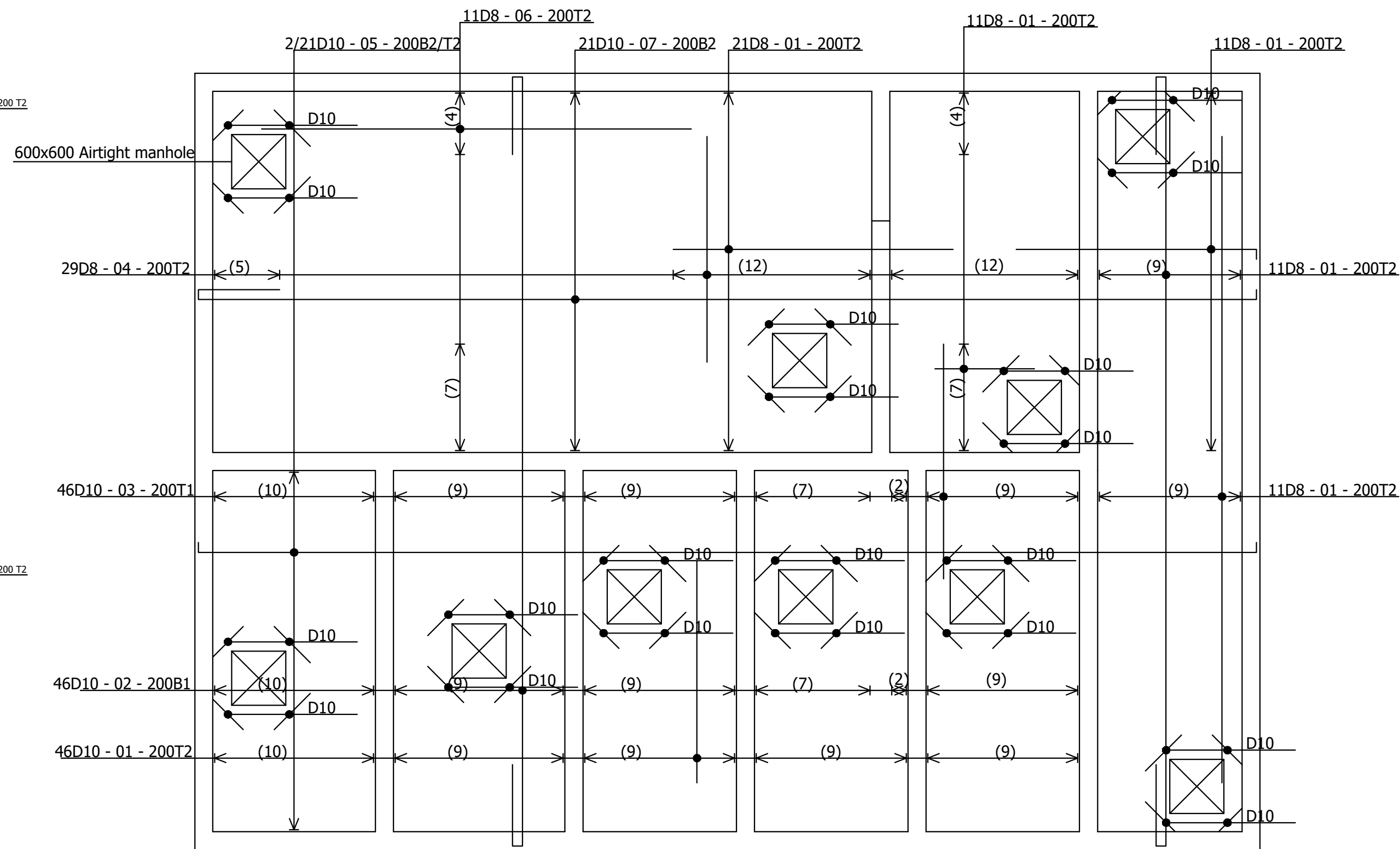
SECTION 01 - 01: REINFORCEMENTS DETAILS.  
SCALE 1:25



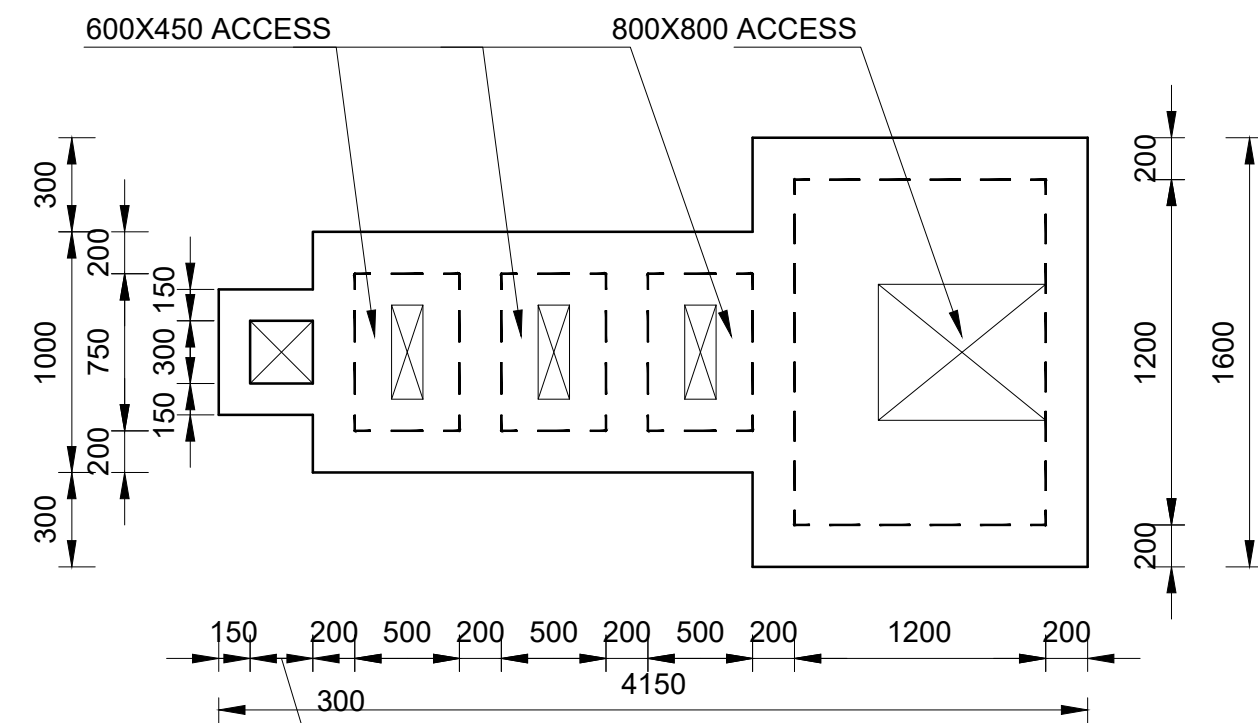
SECTION 02 - 02: REINFORCEMENTS DETAILS.  
SCALE 1:25



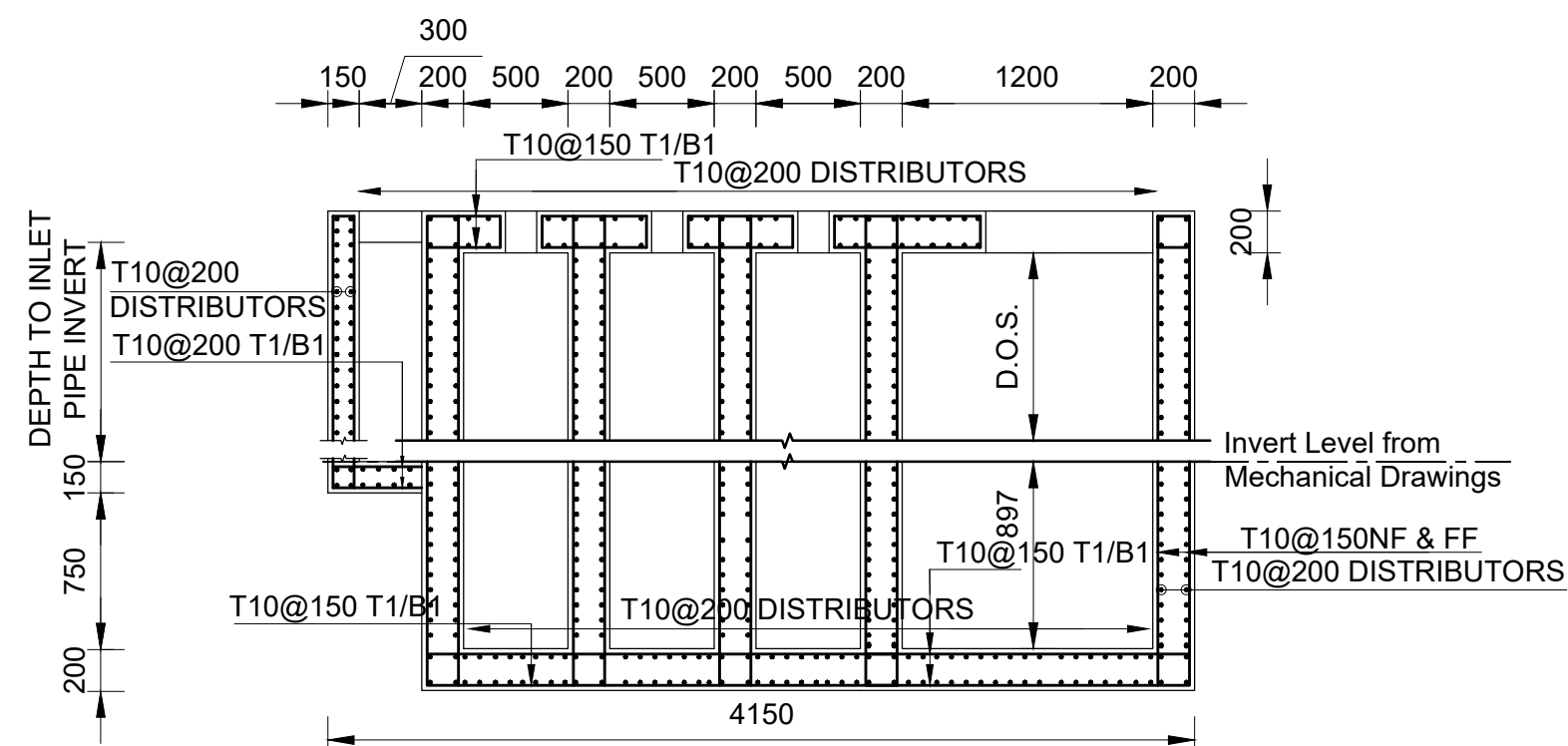
FOUNDATION / BOTTOM SLAB LAYOUT  
SCALE 1:25



TOP SLAB LAYOUT  
150mm THICK SOLID SLAB  
SCALE 1:25



PETROL INTERCEPTOR (PLAN)  
Scale 1:50



PETROL INTERCEPTOR RC DETAIL(SECTION)  
Scale 1:50

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 KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.**

DRAWING TITLE:-  
**BIO-REACTOR AND INTERCEPTOR DETAIL**

#### 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 m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

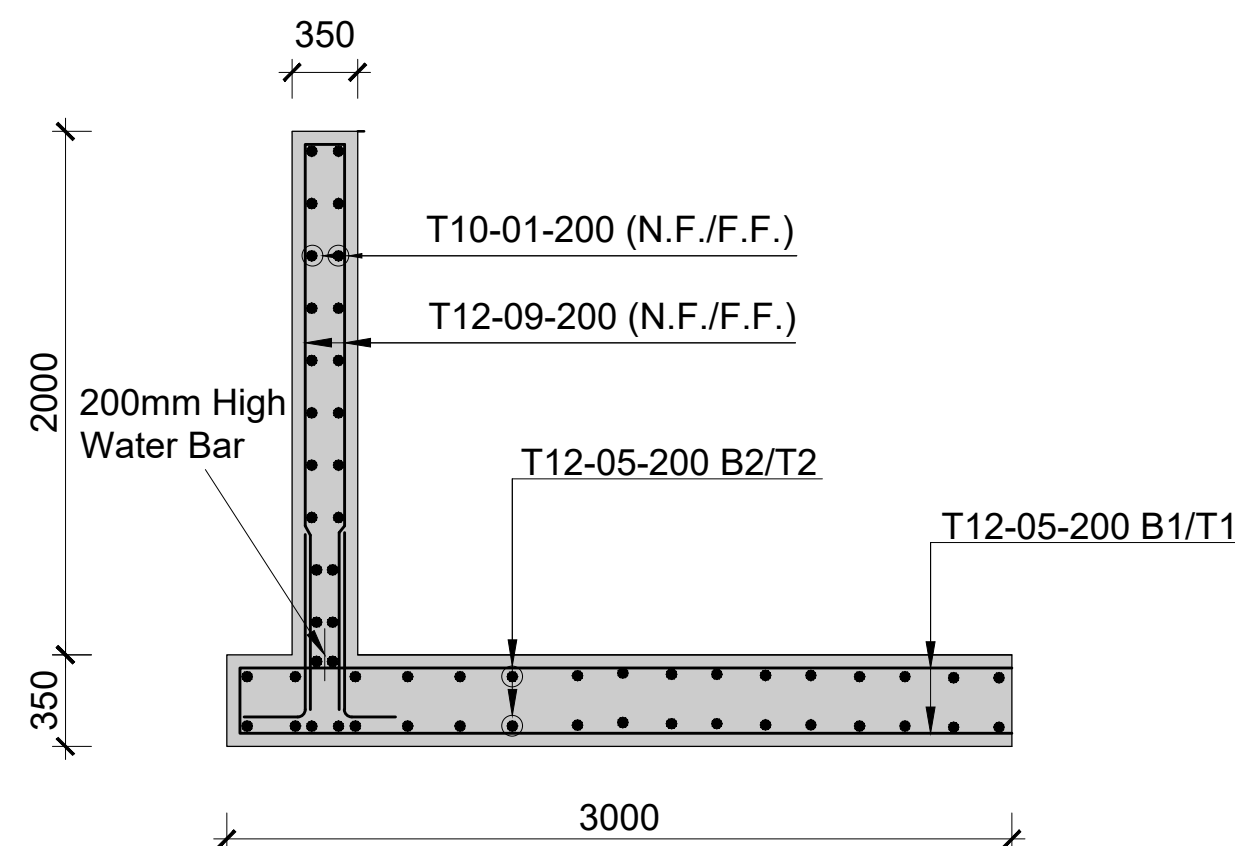
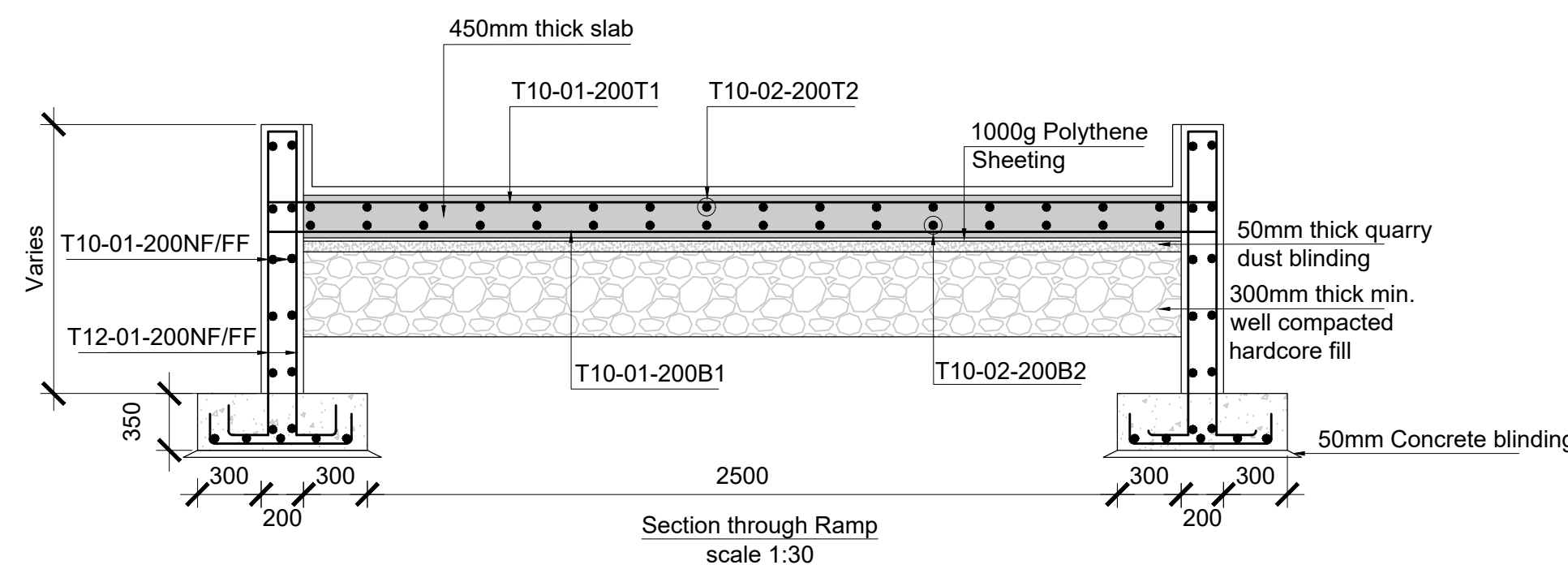
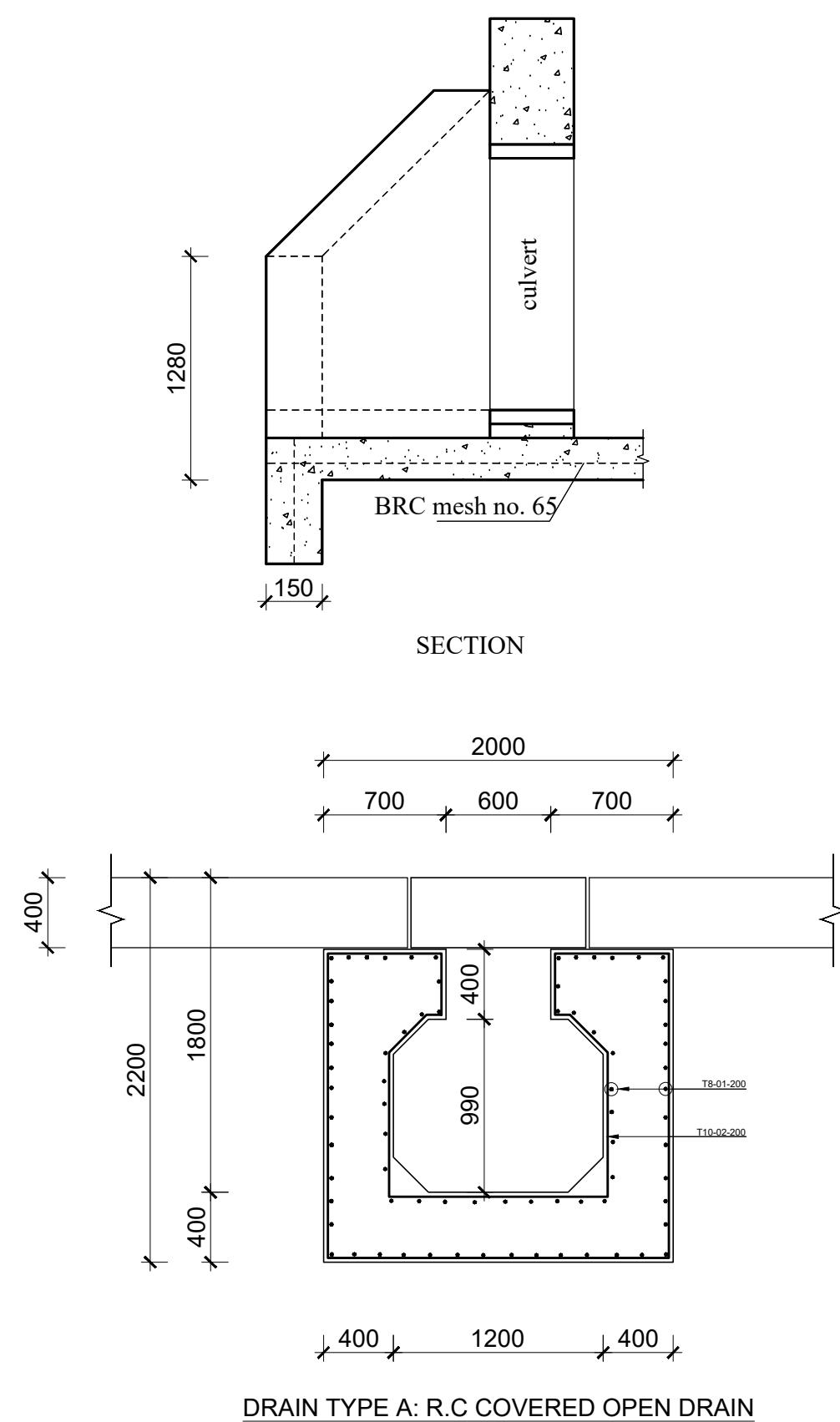
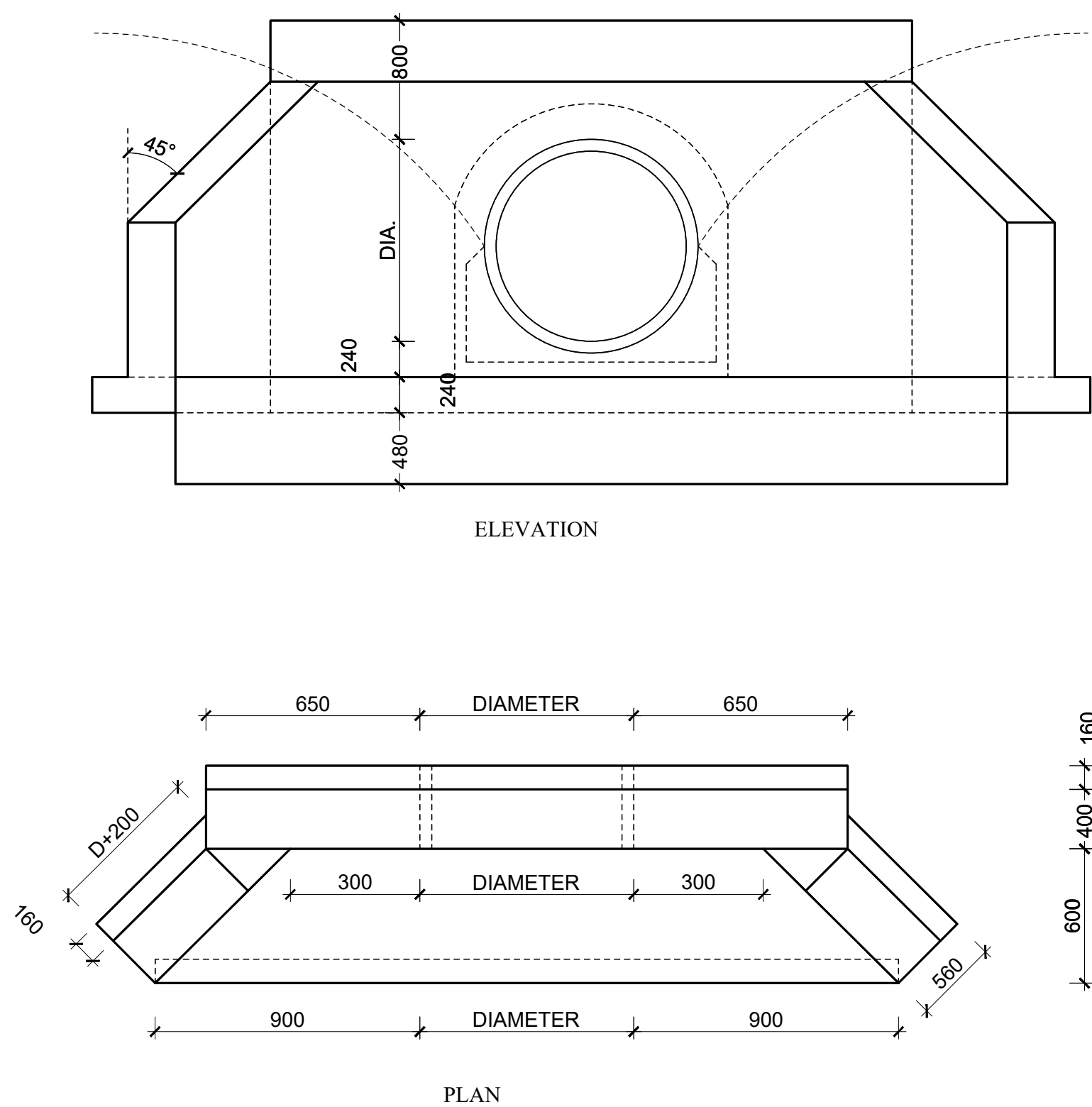
- Stairs, Slabs & Walls = 35mm
- Beams (main bars) = 35mm
- Post-tensioned beams = 40mm
- Columns (main bars) = 40mm
- Foundations = 75mm
- 5. Maximum tolerance on concrete cover is +/- 5mm.
- 6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.
- 7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 250 KN/m<sup>2</sup>.
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.

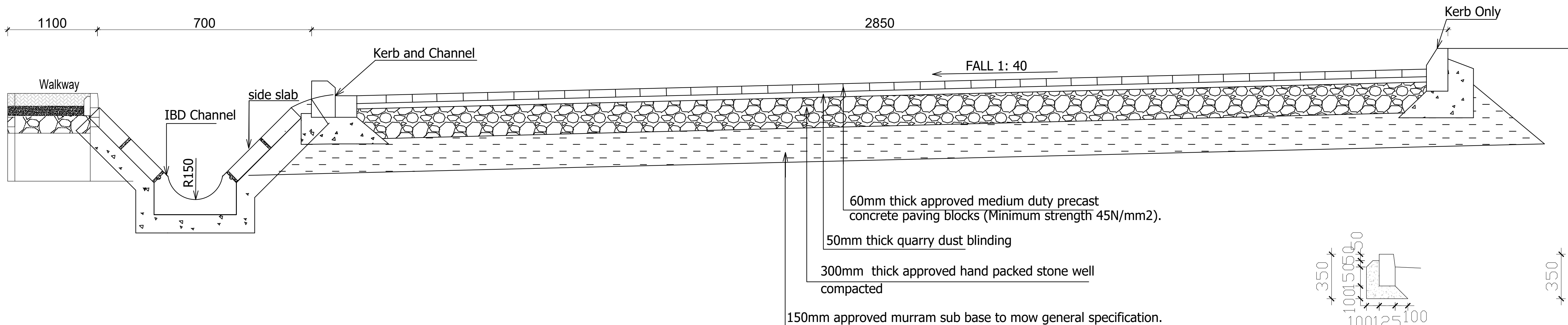
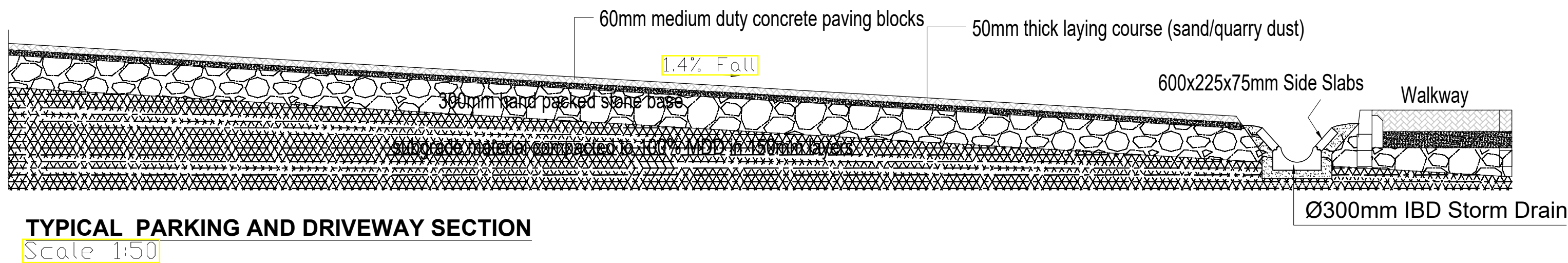
| Designed by | DAN      | Rev | Description | By | Date |
|-------------|----------|-----|-------------|----|------|
| Drawn by    | DAN      | D   |             |    |      |
| Checked by  | HOH      | C   |             |    |      |
| Scale       | AS SHOWN | B   |             |    |      |
|             |          | A   |             |    |      |

DRAWING NO. 10-002-15

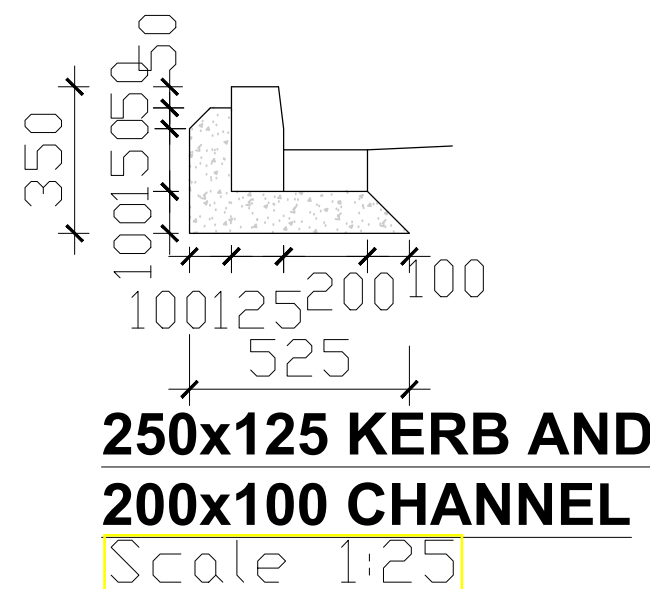
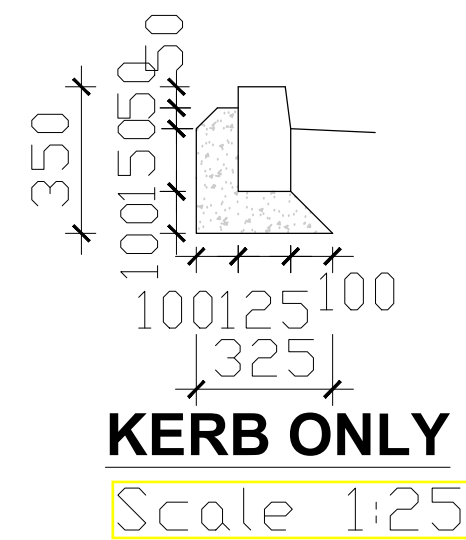




RETAINING WALL SECTION  
(SCALE 1:50)

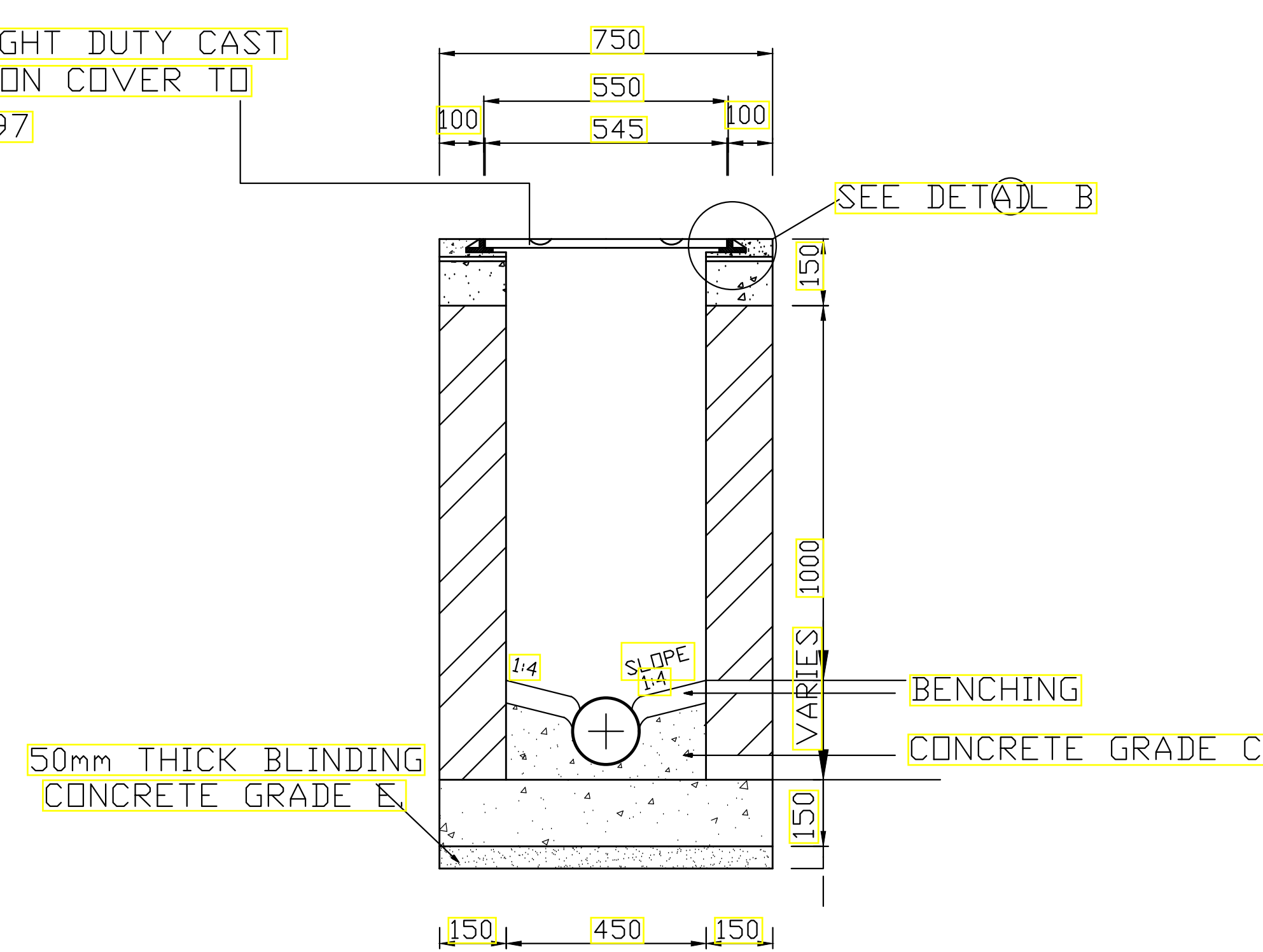
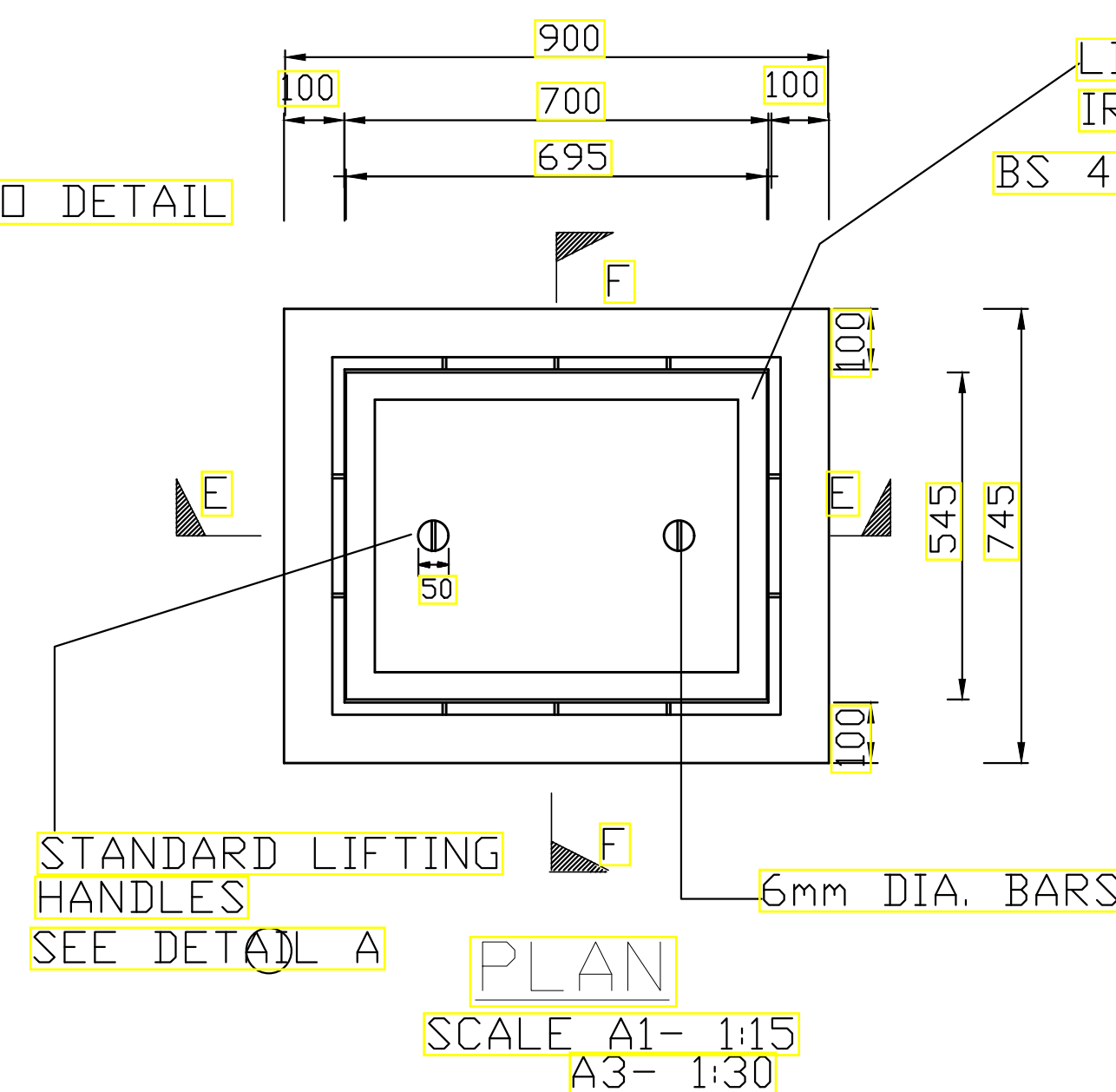
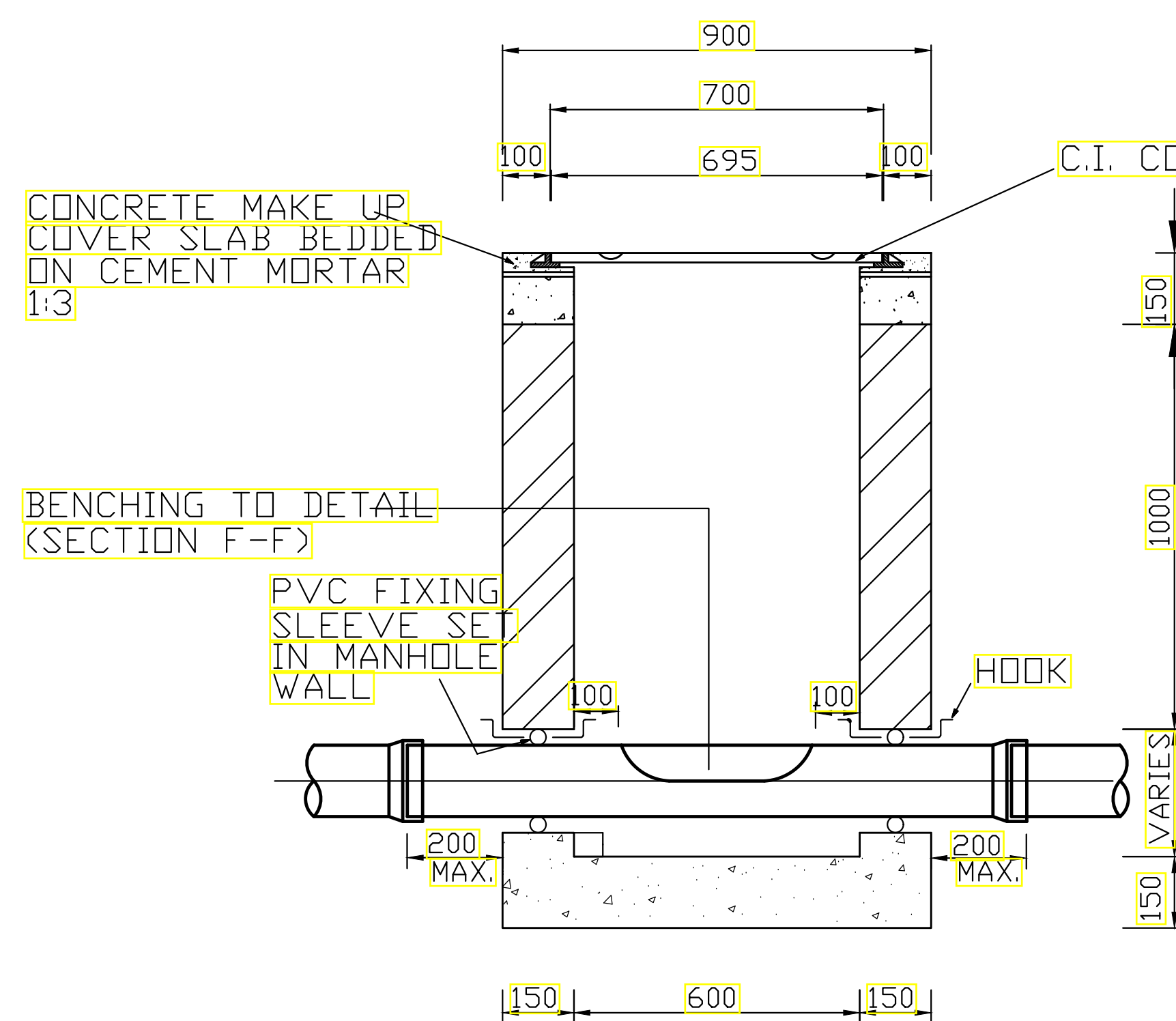


ROAD SECTION X-X (ONE WAY FALL)  
SCALE 1:50



|   |  |  |   |   |   |  |             |             |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
|---|--|--|---|---|---|--|-------------|-------------|-----|-------------|----|------|----------|-----|---|--|--|--|------------|-----|---|--|--|--|-------|----------|---|--|--|--|--|--|---|--|--|--|
| Consultant:-  | CLIENT:-   | PROJECT:-  | PROJECT TITLE:-   | NOTES   |   |  |             |             |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
| ARPRIM CONSORTIUM<br>P.O. Box 12969-00100,<br>Nairobi, KENYA.<br>Tel: 02 608 906<br>Fax: 02 608 907<br>E-mail: info@arprimconsultants.com | STATE DEPARTMENT FOR FISHERIES,<br>AQUACULTURE AND THE BLUE ECONOMY. | PROPOSED KENYA MARINE FISHERIES AND<br>SOCIO-ECONOMIC DEVELOPMENT (KEMFSED) NATIONAL<br>AND COUNTY FISHERIES INFRASTRUCTURE. | PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY. | <div>Stairs, Slabs &amp; Walls = 35mm<br/>Beams (main bars) = 35mm<br/>Post-tensioned beams = 40mm<br/>Columns (main bars) = 40mm<br/>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 accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.</div> <div>7. Minimum laps to all bars to be 500 unless stated otherwise.</div> | <div><div>8. Safe Bearing Pressure taken to be 250 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. Concrete blinding to be Class 15 unless stated otherwise.</div><div>12. Masonry Strength to be 7.0 N/mm².</div></div> | <table><tr><td>Designed by</td><td>DAN</td><td>Rev</td><td>Description</td><td>By</td><td>Date</td></tr><tr><td>Drawn by</td><td>DAN</td><td>D</td><td></td><td></td><td></td></tr><tr><td>Checked by</td><td>HOH</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> <div>DRAWING NO. 10-002-16</div> | Designed by | DAN         | Rev | Description | By | Date | Drawn by | DAN | D |  |  |  | Checked by | HOH | C |  |  |  | Scale | AS SHOWN | B |  |  |  |  |  | A |  |  |  |
|   |  |  |   |   | Designed by   | DAN  | Rev         | Description | By  | Date        |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
|   |  |  |   |   | Drawn by  | DAN  | D           |             |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
|   |  |  |   |   | Checked by  | HOH  | C           |             |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
|   |  |  |   |   | Scale   | AS SHOWN   | B           |             |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |
|   |  | A  |   |   |   |  |             |             |     |             |    |      |          |     |   |  |  |  |            |     |   |  |  |  |       |          |   |  |  |  |  |  |   |  |  |  |



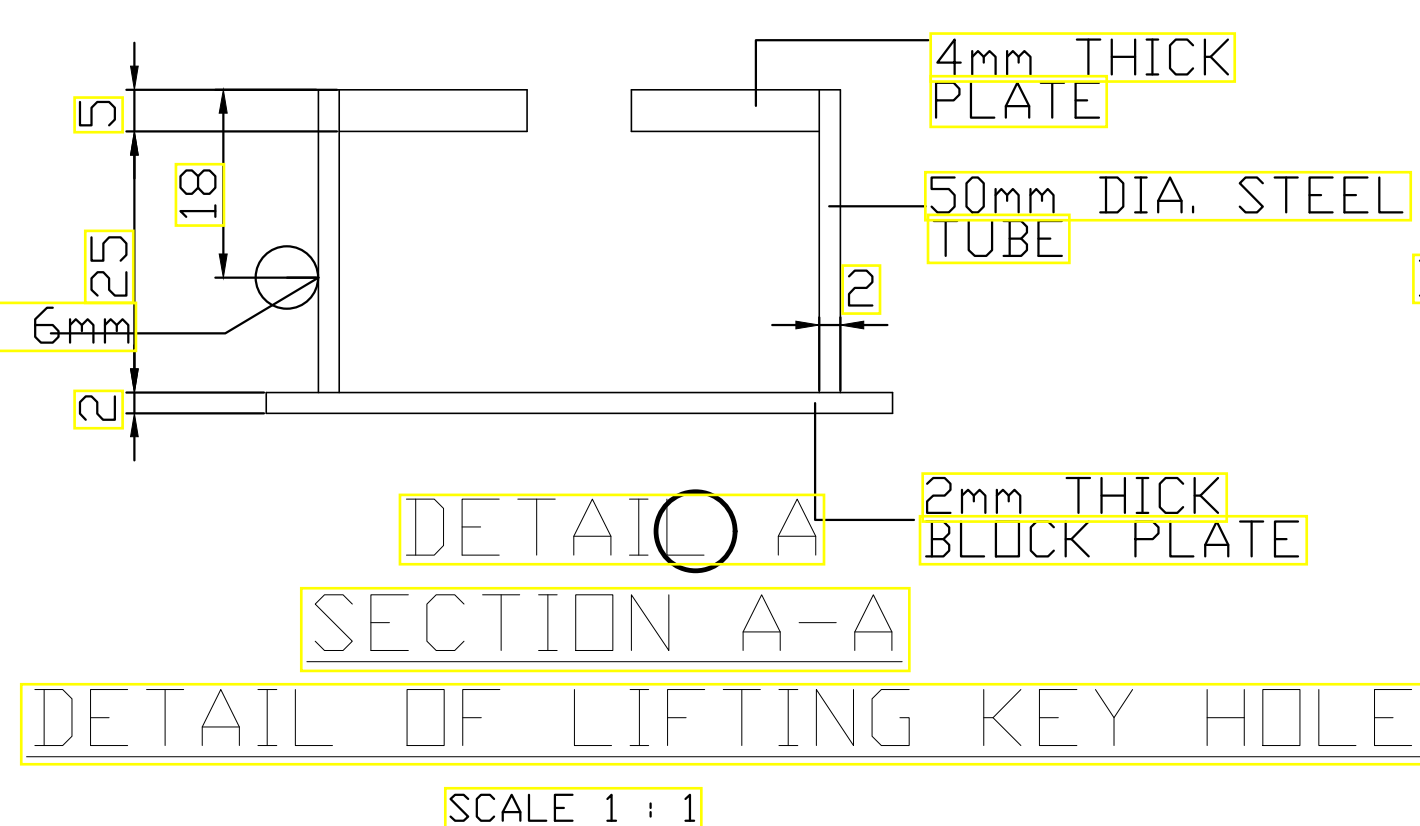
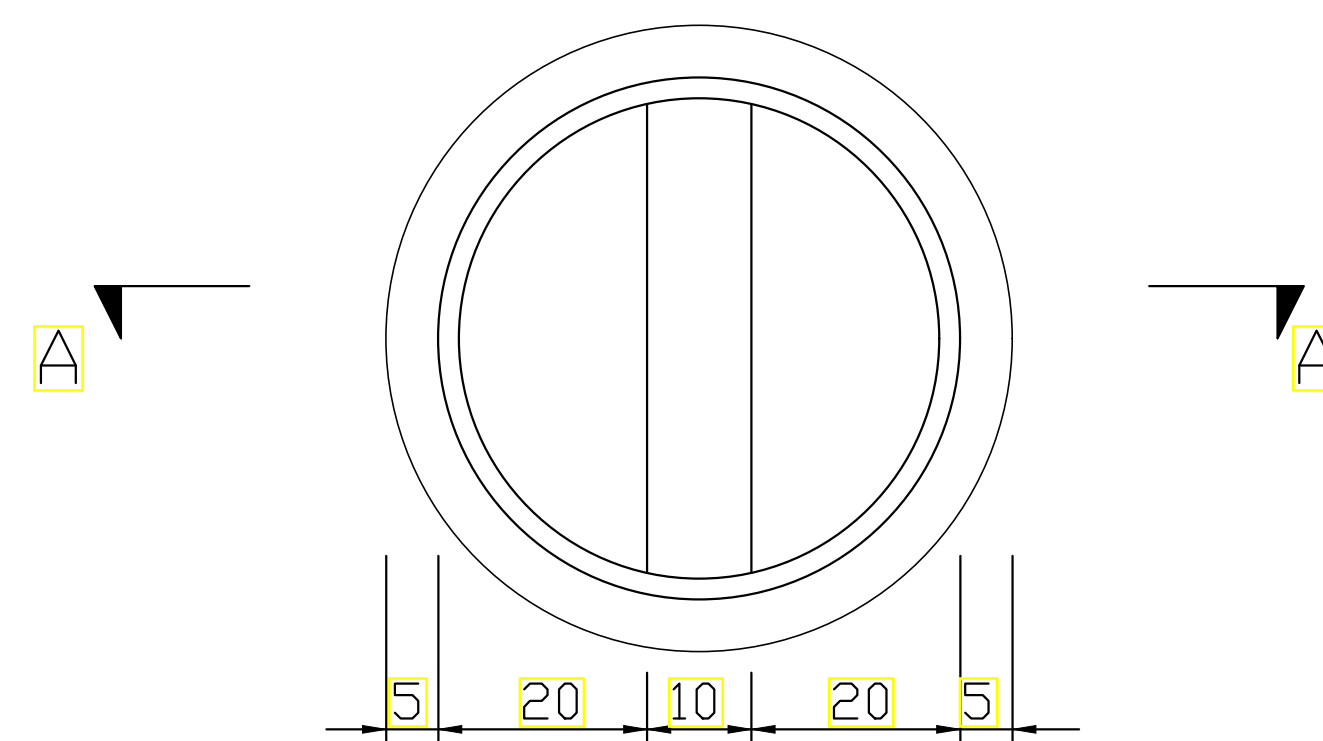


SECTION E-E  
SCALE A1- 1:15  
A3- 1:30

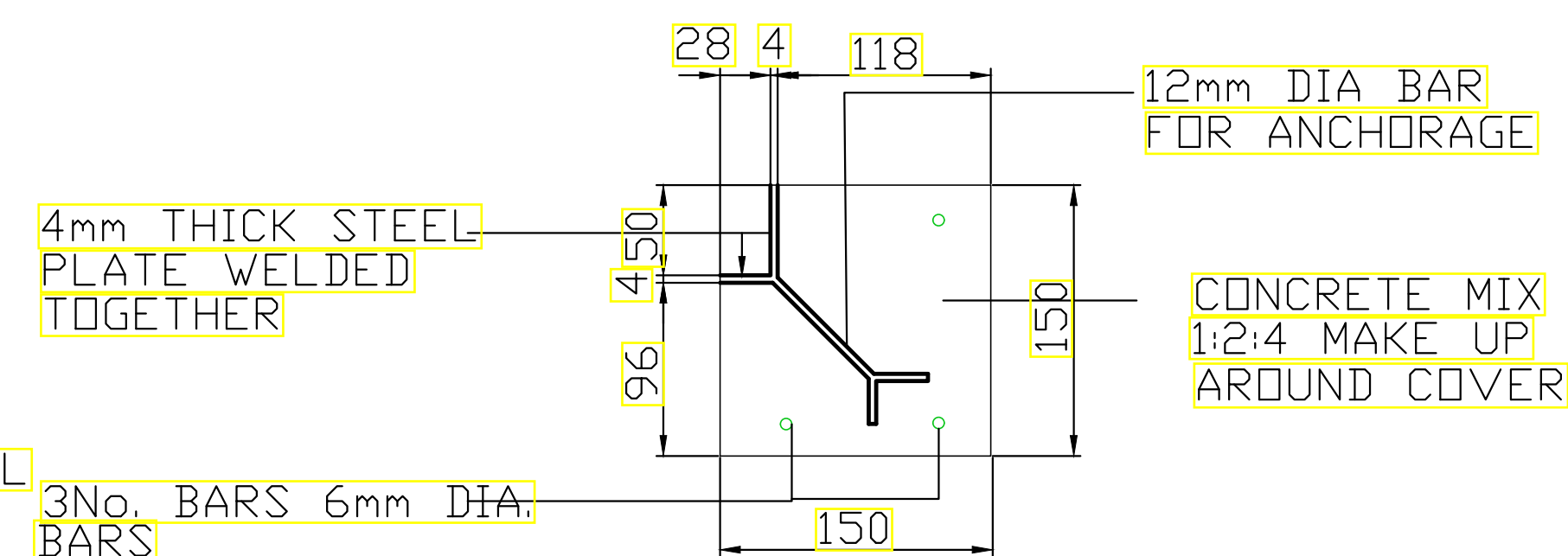
## INSPECTION CHAMBER DETAILS

### NOTES:

- INSPECTION CHAMBER SHOULD BE SIZE 600x450mm UPTO DEPTH OF 1000mm
- FOR INSPECTION CHAMBER EXCEEDING DEPTH 1000mm SIZE SHOULD BE 850x1200mm
- WALLS OF INSPECTION CHAMBER TO BE OF MASONRY



SECTION F-F  
SCALE A1- 1:15  
A3- 1:30



DETAIL B  
SECTION SHOWING DETAIL  
OF FRAME FOR P.C.C - I.C COVER  
SCALE 1 : 5

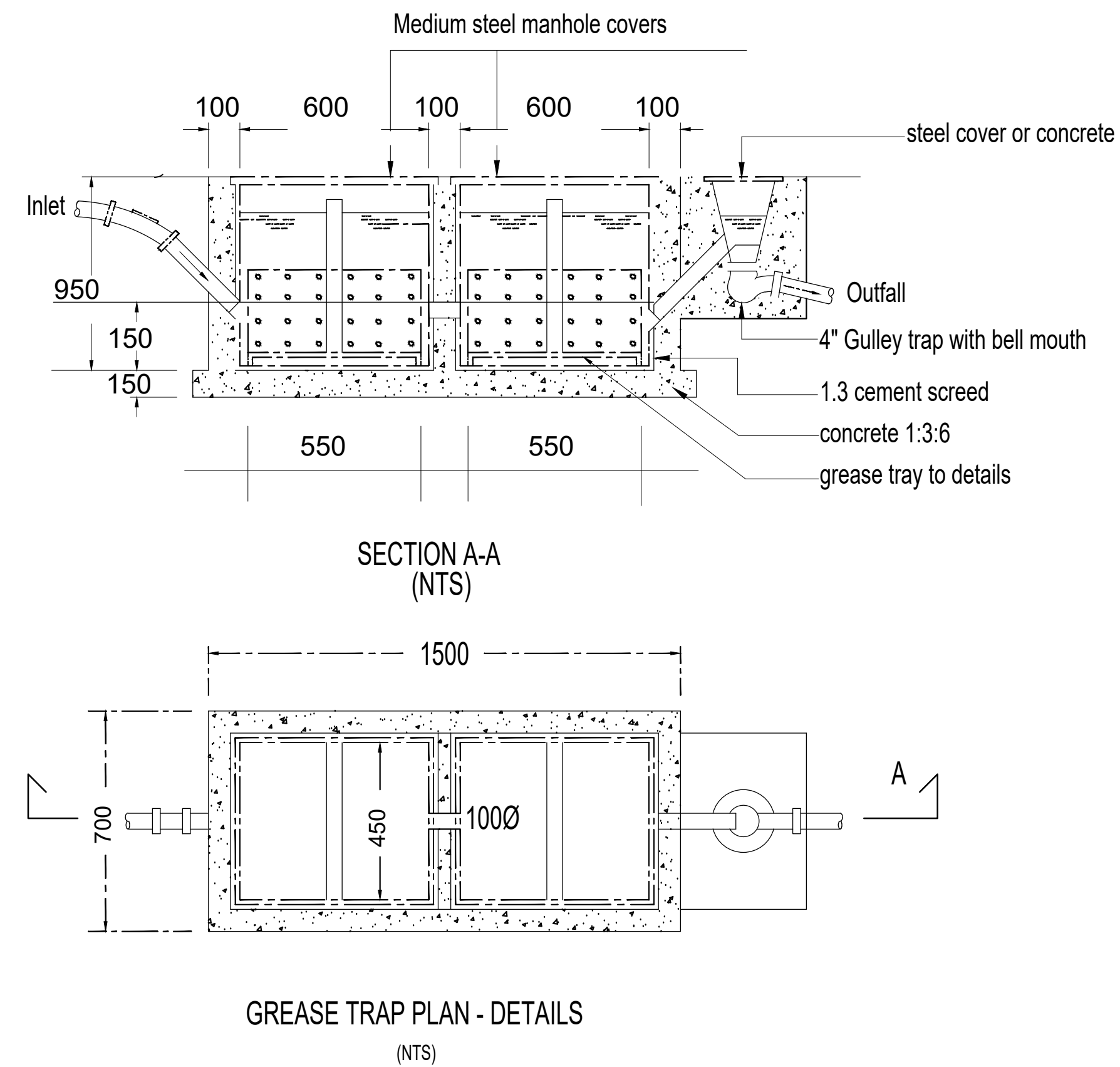
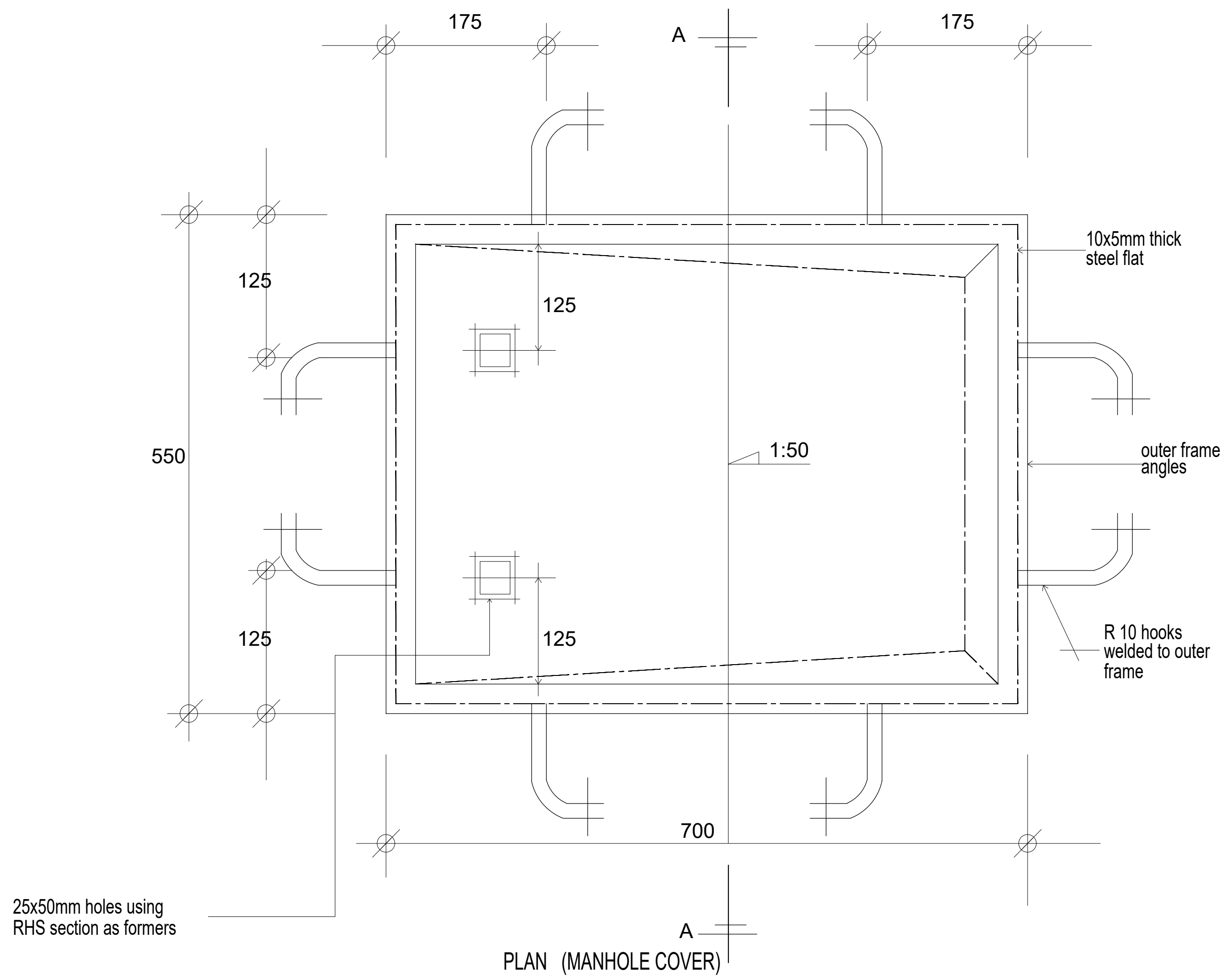
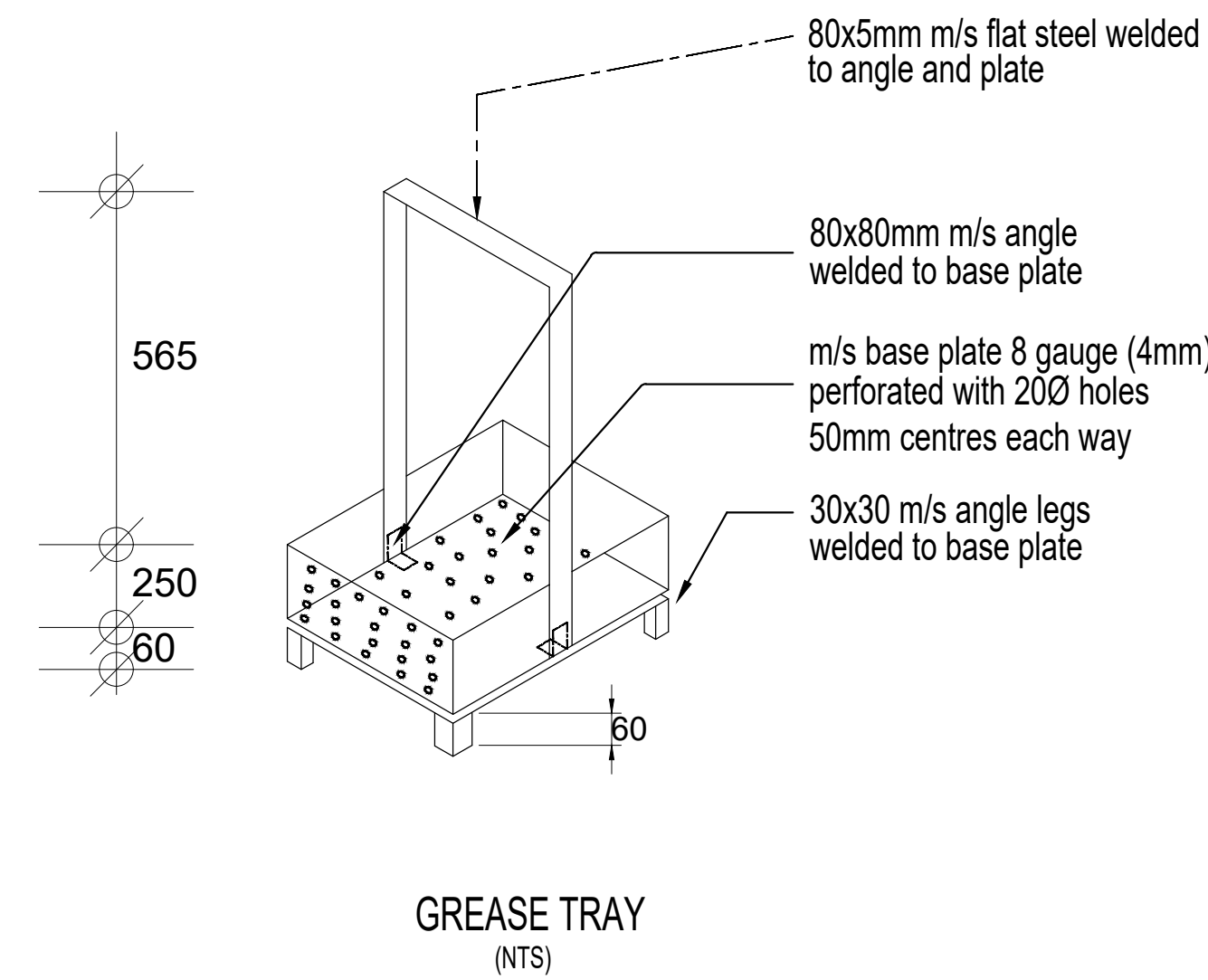
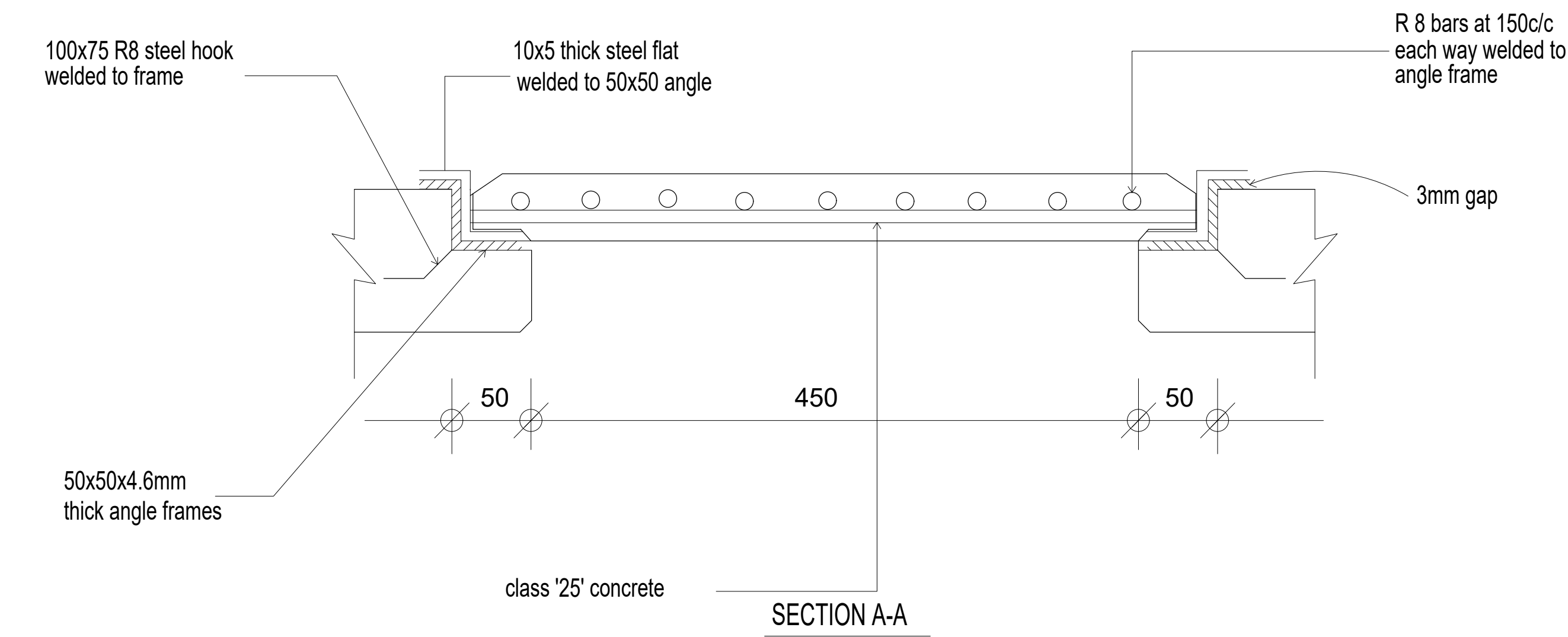
### NOTES

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

- Stairs, Slabs & Walls  
Beams (main bars) = 35mm  
Post-tensioned beams = 40mm  
Columns (main bars) = 75mm  
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 4483.
7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 250 KN/m<sup>2</sup>.
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.





Consultant:-  
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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 KILIFI CENTRAL FISH LANDING SITE, KILIFI COUNTY.**

DRAWING TITLE:-  
**PROPOSED KILIFI CENTRAL FISH LANDING SITE, KILIFI  
COUNTY - CIVIL WORKS DRAWINGS**

#### 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 m unless specified otherwise.
4. Minimum cover to all reinforcement to be:

Stairs, Slabs & Walls = 35mm  
Beams (main bars) = 35mm  
Post-tensioned beams = 40mm  
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 4483.

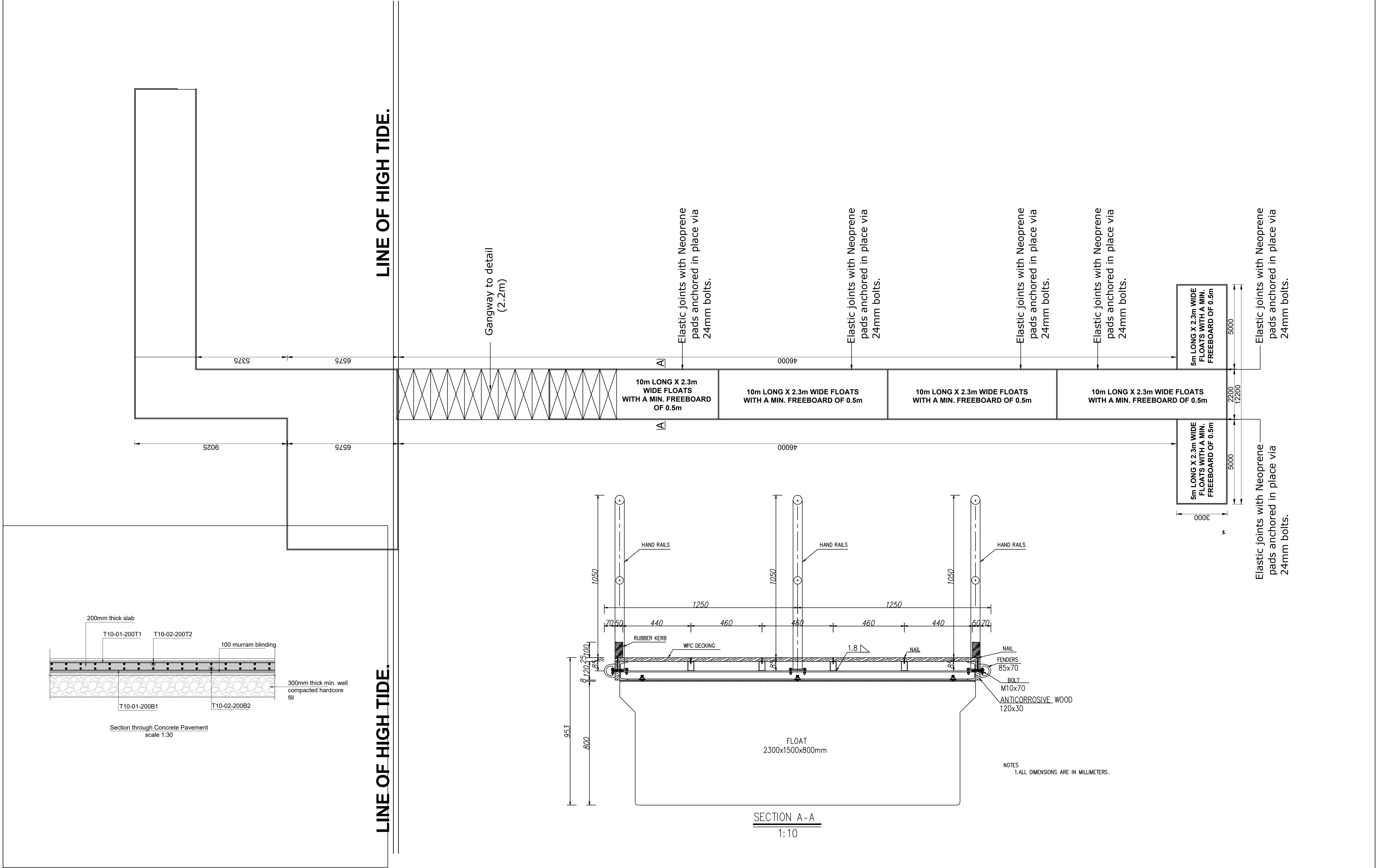
7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 250 KN/m<sup>2</sup>.
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10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm<sup>2</sup>.

| Designed by | DAN      | Rev | Description | By | Date |
|-------------|----------|-----|-------------|----|------|
| Drawn by    | DAN      | D   |             |    |      |
| Checked by  | HOH      | C   |             |    |      |
| Scale       | AS SHOWN | B   |             |    |      |
|             |          | A   |             |    |      |

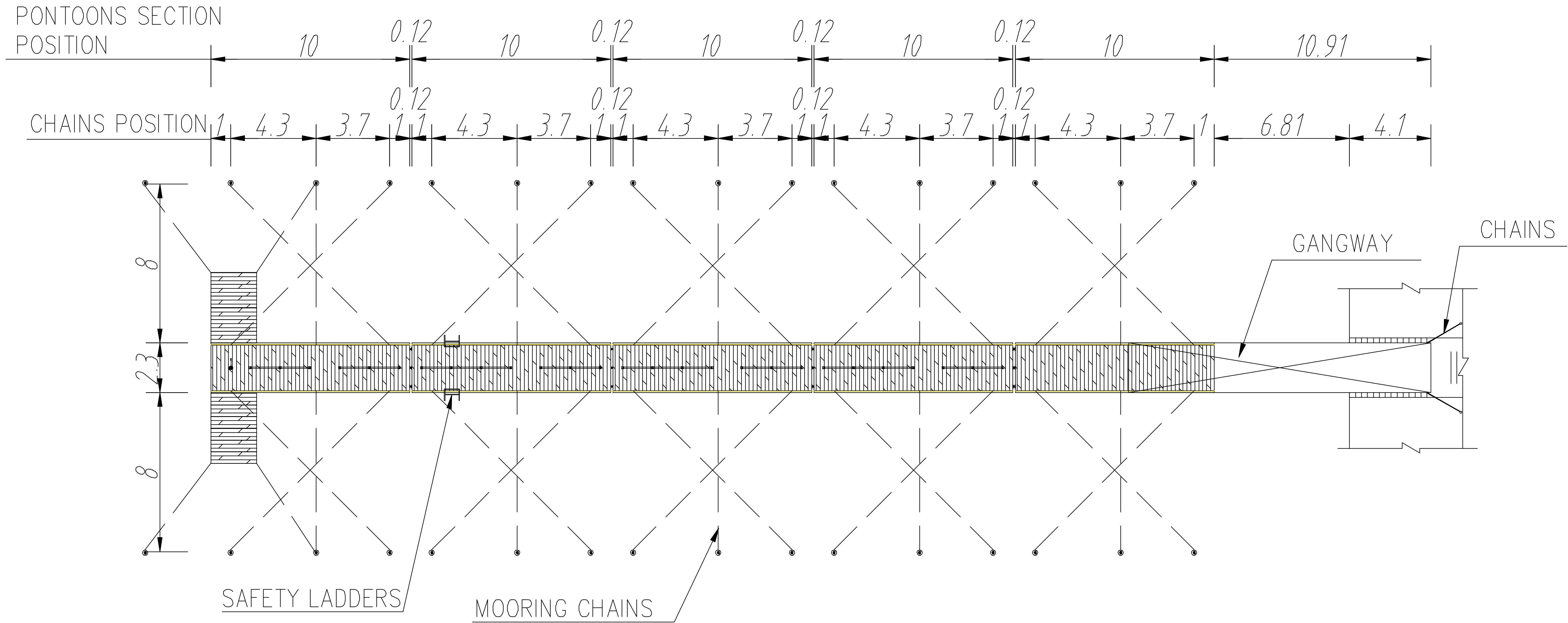
**DRAWING NO. 10-002-18**



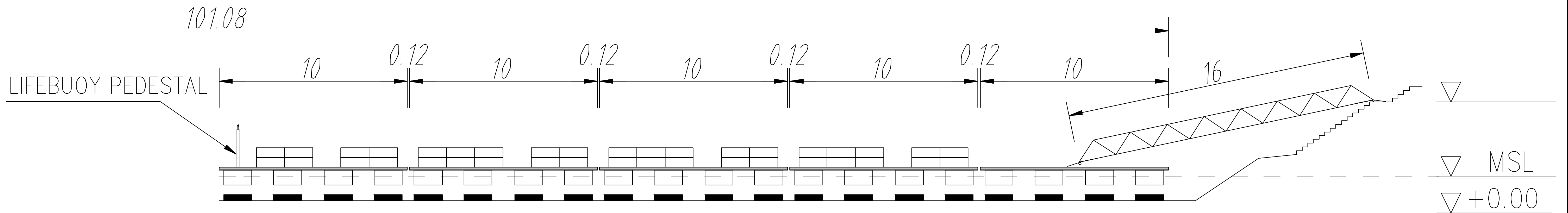


|   |   |  |  |  |   |   |                                  |
|---|---|--|--|--|---|---|----------------------------------|
| <div>CONSULTANT:-<br/><b>ARPRIM CONSORTIUM</b><br/>P.O. Box 12969-00100,<br/>Nairobi, KENYA.<br/>Tel: 02 608 906<br/>Fax: 02 608 907<br/>E-mail: info@arprimconsultants.com</div> | <div>CLIENT:-<br/>STATE DEPARTMENT FOR FISHERIES,<br/>AQUACULTURE AND THE BLUE ECONOMY.</div> | <div>PROJECT:-<br/>PROPOSED KENYA MARINE FISHERIES AND<br/>SOCIO-ECONOMIC DEVELOPMENT (KEMFSD)<br/>NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.</div> | <div>PROJECT TITLE:-<br/>PROPOSED CONSTRUCTION OF RESOURCE CENTRE AND RELATED<br/>INFRASTRUCTURE- KILIFI COUNTY.</div> <div>DRAWING TITLE:-<br/>PROPOSED RESOURCE CENTRE - KILIFI CENTRAL FISH LANDING SITE-<br/>FLOATING JETTY LAYOUT AND SECTION A-A</div> | <div>NOTES</div> <div>1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.</div> <div>2. All dimensions are in millimetres unless specified 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>5. Maximum tolerance on concrete cover is <math>\pm 5</math> mm.</div> <div>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 4483.</div> <div>7. Minimum laps to all bars to be 500 unless stated otherwise.</div> <div>Slabs, Slabs &amp; Walls = 25mm<br/>Beams (main bars) = 25mm<br/>Post-tensioned beams = 40mm<br/>Columns (main bars) = 30mm<br/>Foundations = 50mm</div> <div>8. Safe Bearing Pressure taken to be 450 KN/m<sup>2</sup>.</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/mm<sup>2</sup>.</div> | <div>Designed by<br/>DAN</div> <div>Drawn by<br/>DAN</div> <div>Checked by<br/>H.O.H.</div> <div>Scale<br/>AS SHOWN</div> | <div>Rev<br/>D<br/>C<br/>B<br/>A</div> <div>Description<br/>D<br/>C<br/>B<br/>A</div> <div>By<br/><br/><br/><br/></div> <div>Date<br/><br/><br/><br/></div> | <div>DRAWING NO: 10-002-19</div> |
|---|---|--|--|--|---|---|----------------------------------|





GENERAL LAYOUT 1 : 350



ELEVATION 1 : 350

CONSULTANT:-  
**ARPRIM CONSORTIUM**  
P.O. Box 12969-00100,  
Nairobi, KENYA.  
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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 RESOURCE CENTRE AND RELATED  
INFRASTRUCTURE- KILIFI COUNTY.**

DRAWING TITLE:-  
**PROPOSED RESOURCE CENTRE - KILIFI CENTRAL FISH LANDING SITE-  
FLOATING JETTY GENERAL LAYOUT AND ELEVATION**

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:

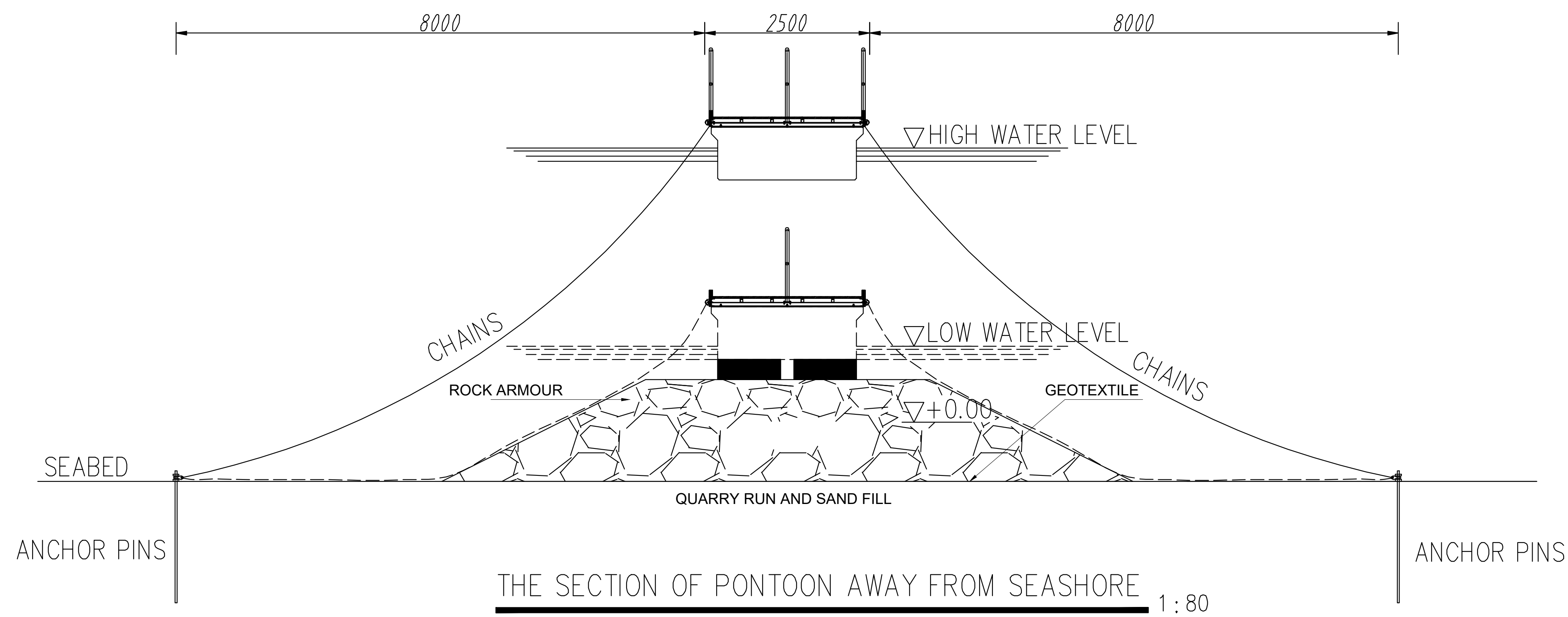
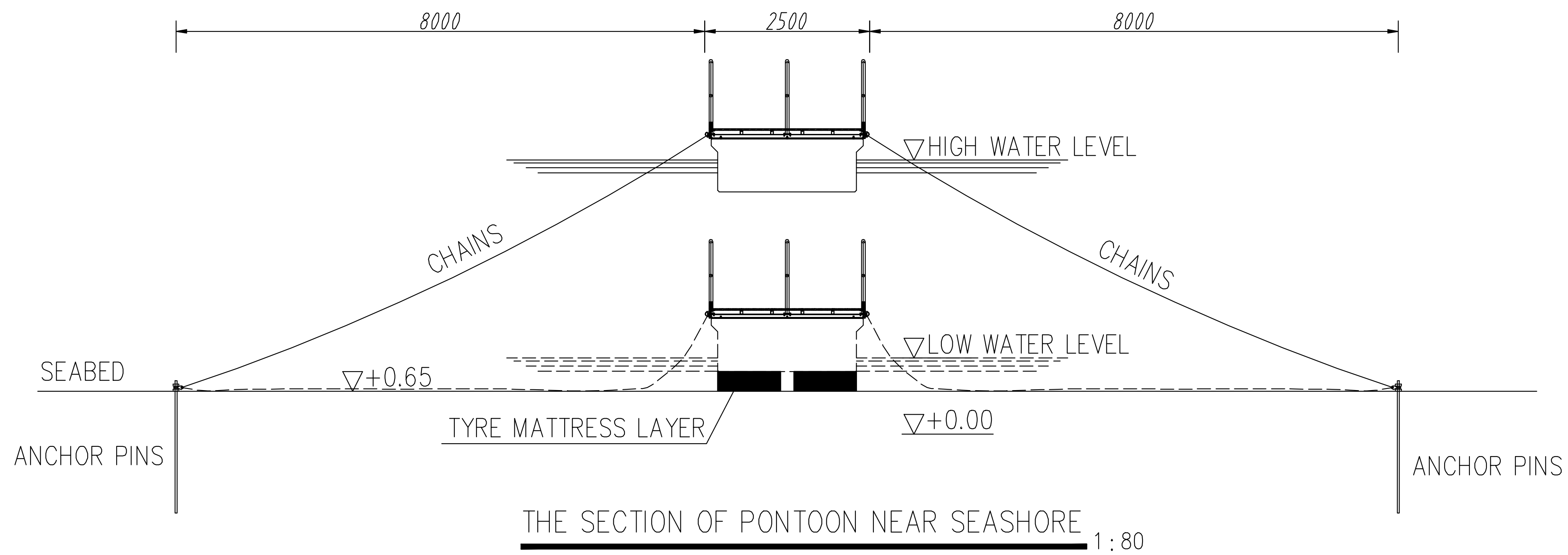
- Slabs, Stairs & Walls = 25mm  
Beams (main bars) = 25mm  
Post-tensioned beams = 40mm  
Columns (main bars) = 30mm  
Foundations = 50mm
5. Maximum tolerance on concrete cover is +/- 5mm.
6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.
7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 450 KN/m<sup>2</sup>.
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/mm<sup>2</sup>.

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

**DRAWING NO: 10-002-20**





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 RESOURCE CENTRE AND RELATED  
INFRASTRUCTURE- KILIFI COUNTY.**

DRAWING TITLE:-  
**PROPOSED RESOURCE CENTRE - KILIFI CENTRAL FISH LANDING SITE-  
FLOATING JETTY SECTIONS**

#### 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:

Slabs, Slabs & Walls = 25mm  
Beams (main bars) = 25mm  
Post-tensioned beams = 40mm  
Columns (main bars) = 30mm  
Foundations = 50mm

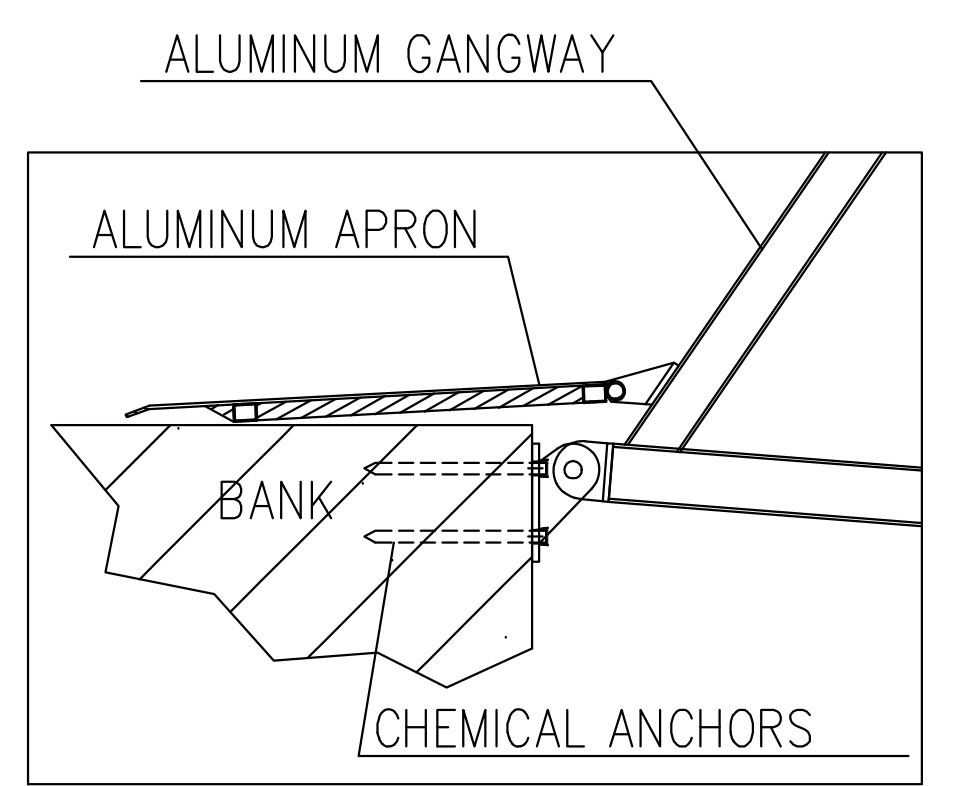
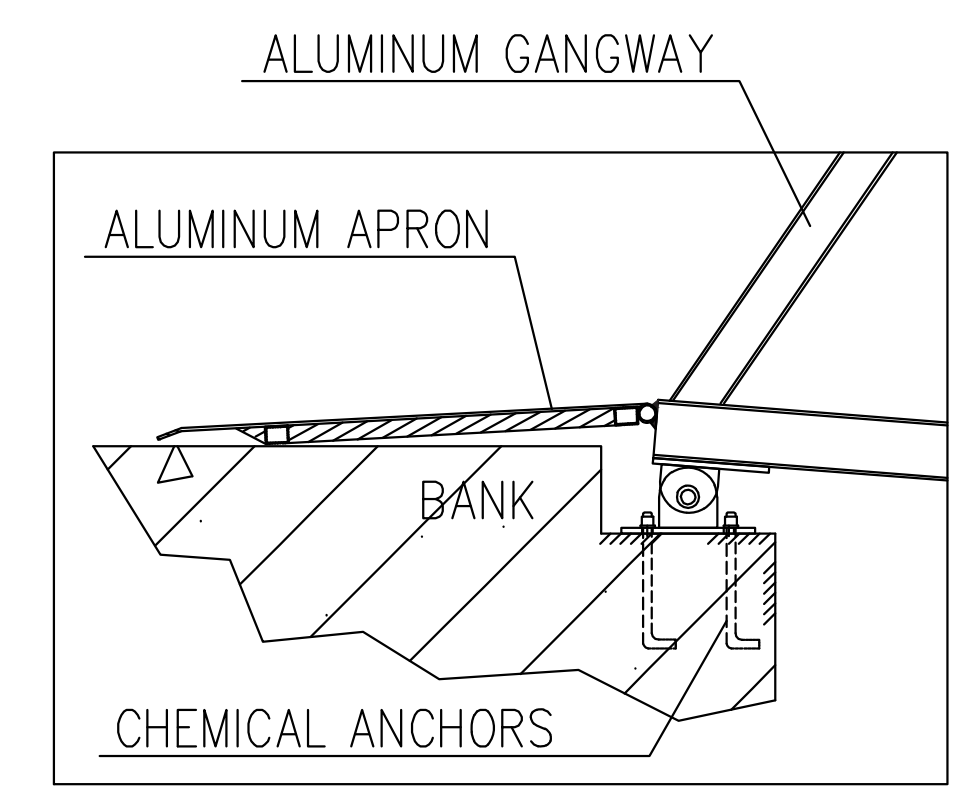
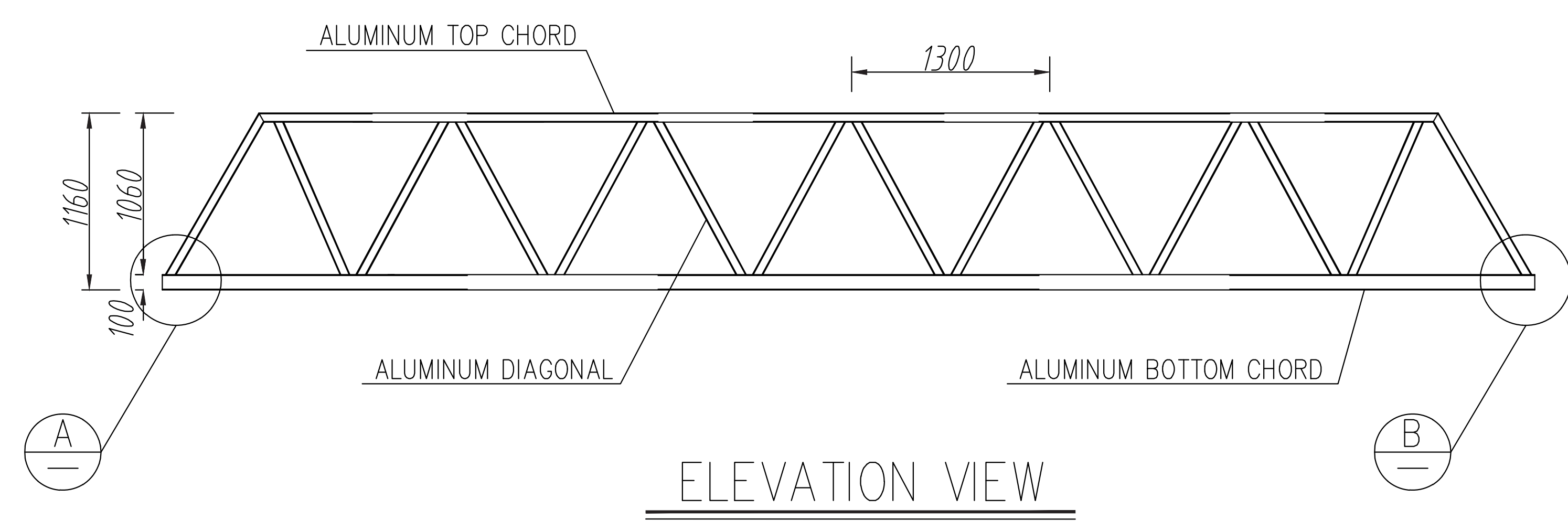
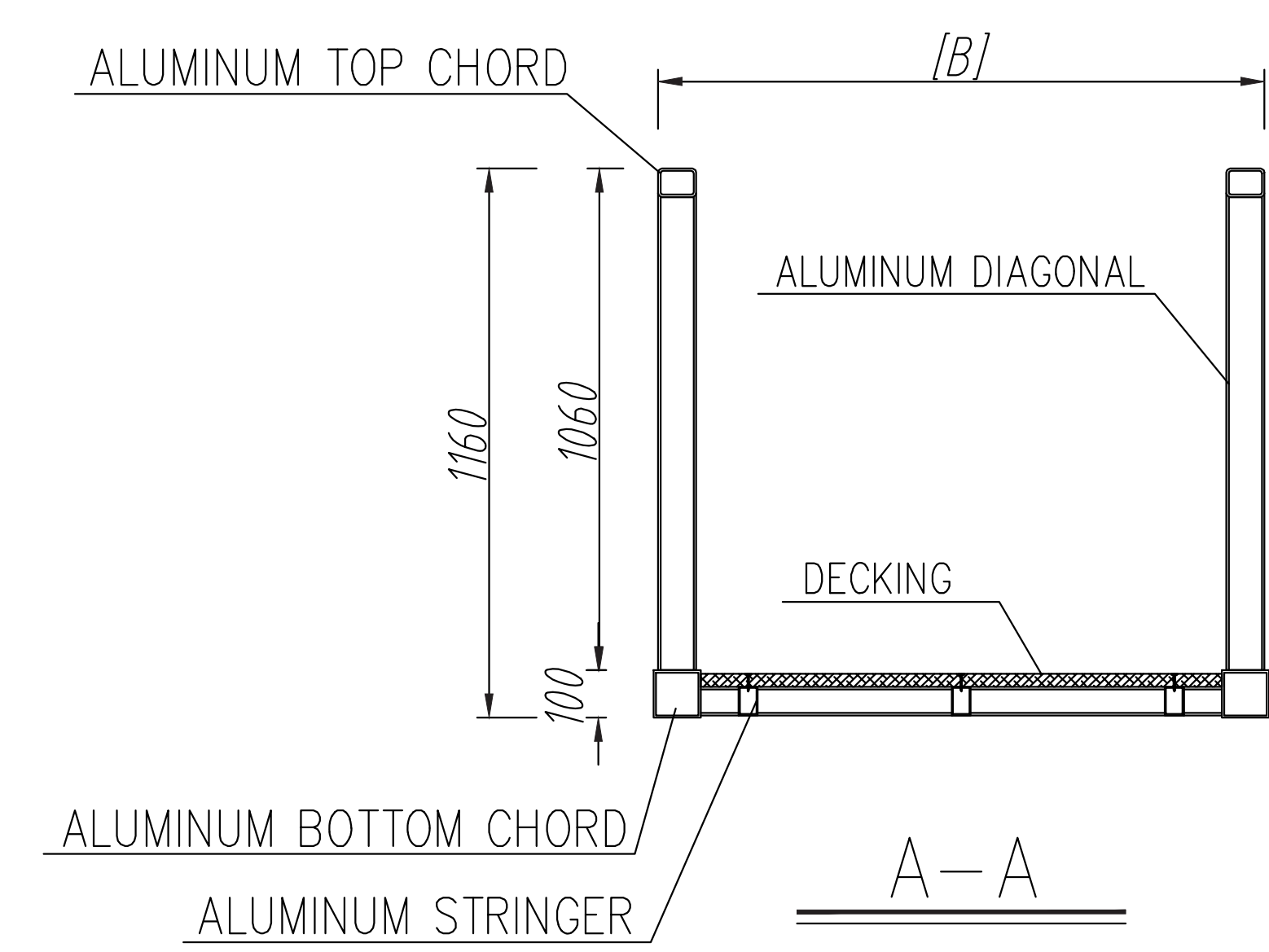
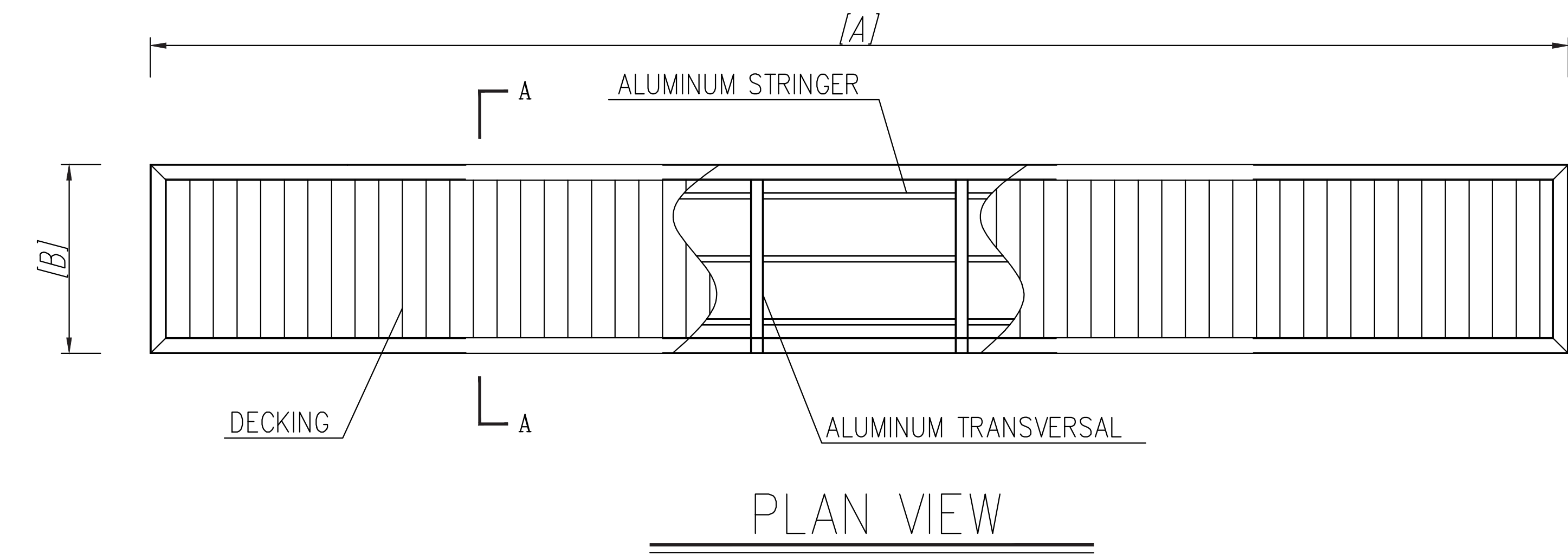
5. Maximum tolerance on concrete cover is +/- 5mm.  
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11. Masonry Strength to be 7.0 N/mm<sup>2</sup>.

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

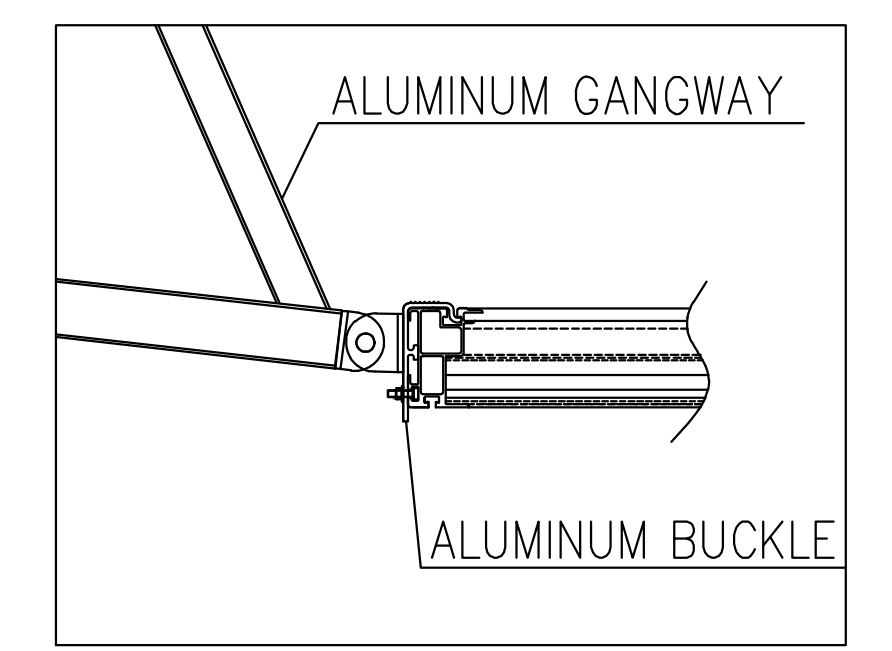
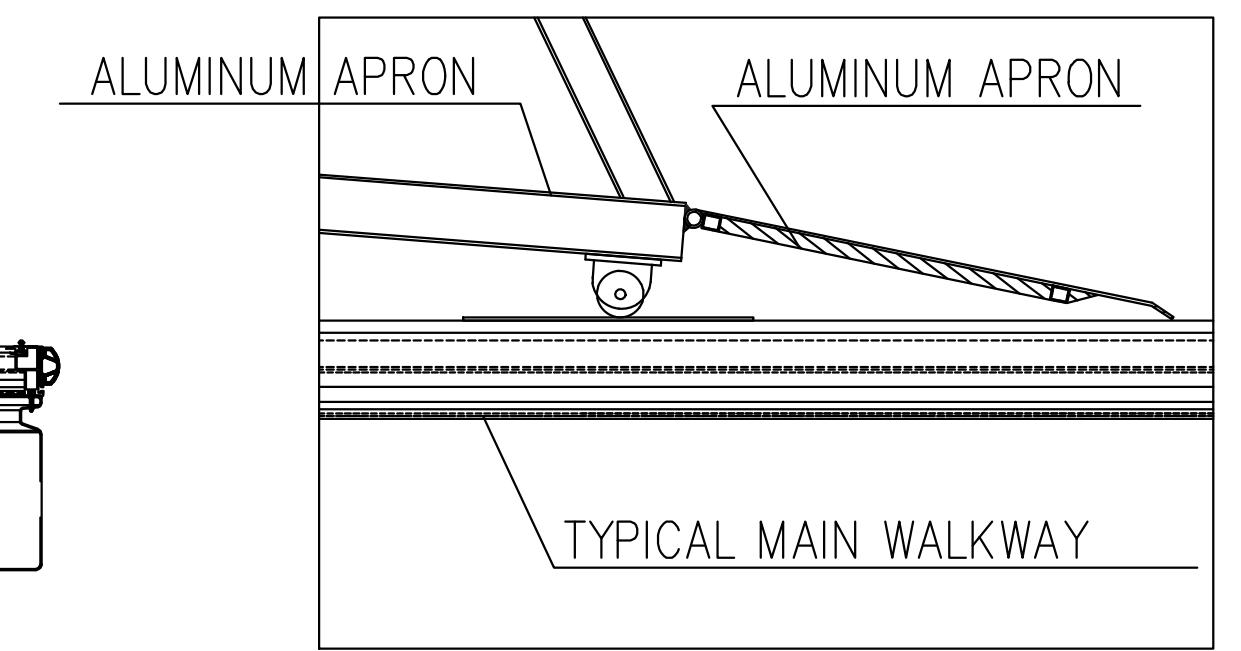
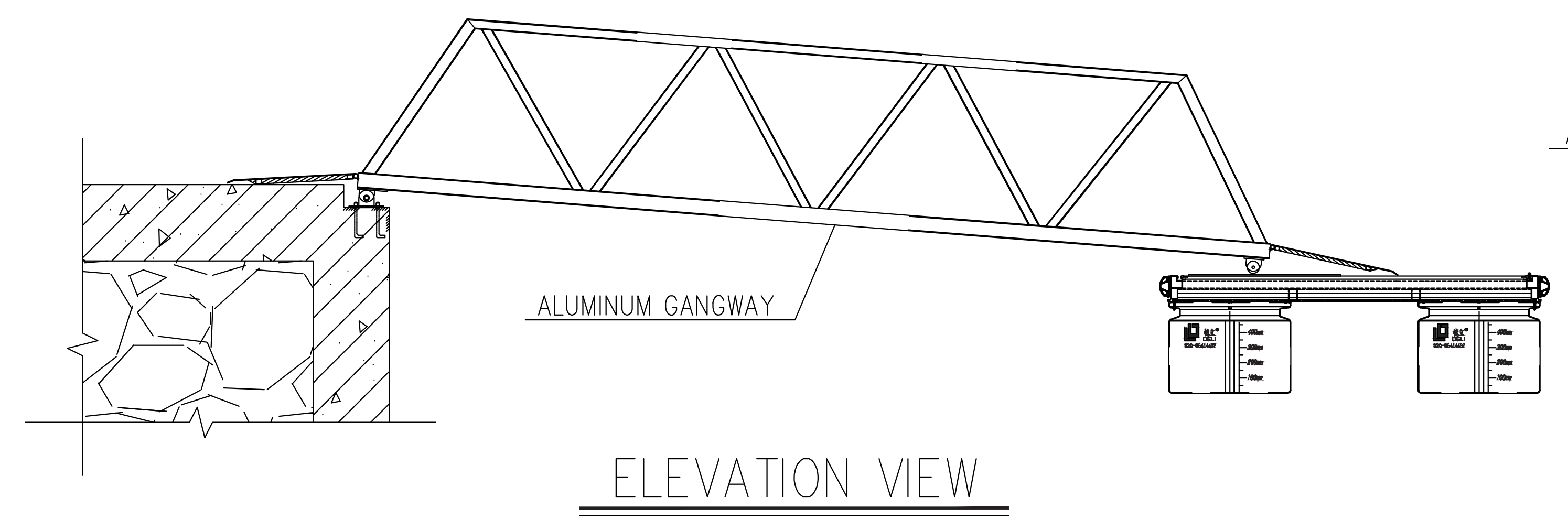
DRAWING NO: 10-002-21





A  
—  
ELEVATION VIEW  
METHOD 1

A  
—  
ELEVATION VIEW  
METHOD 2

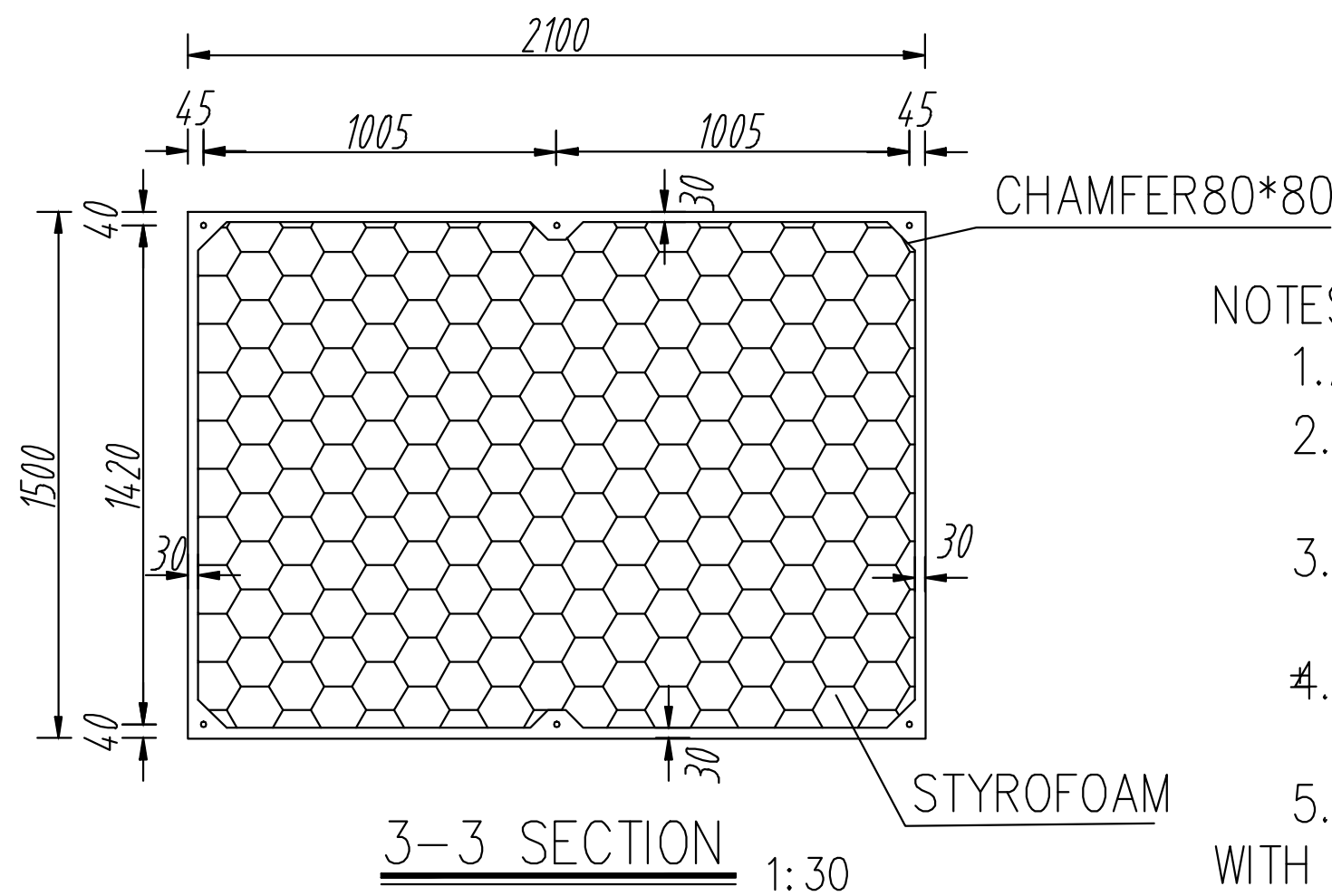
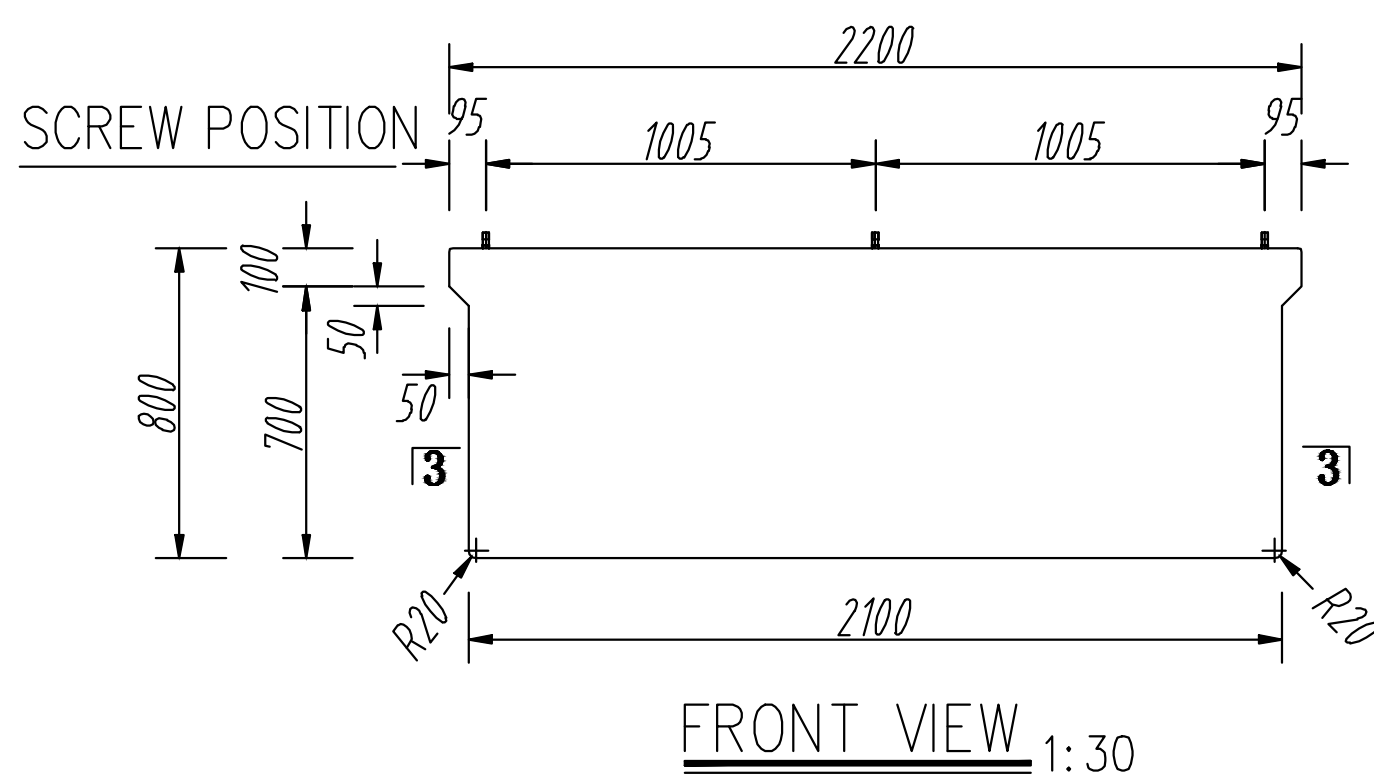
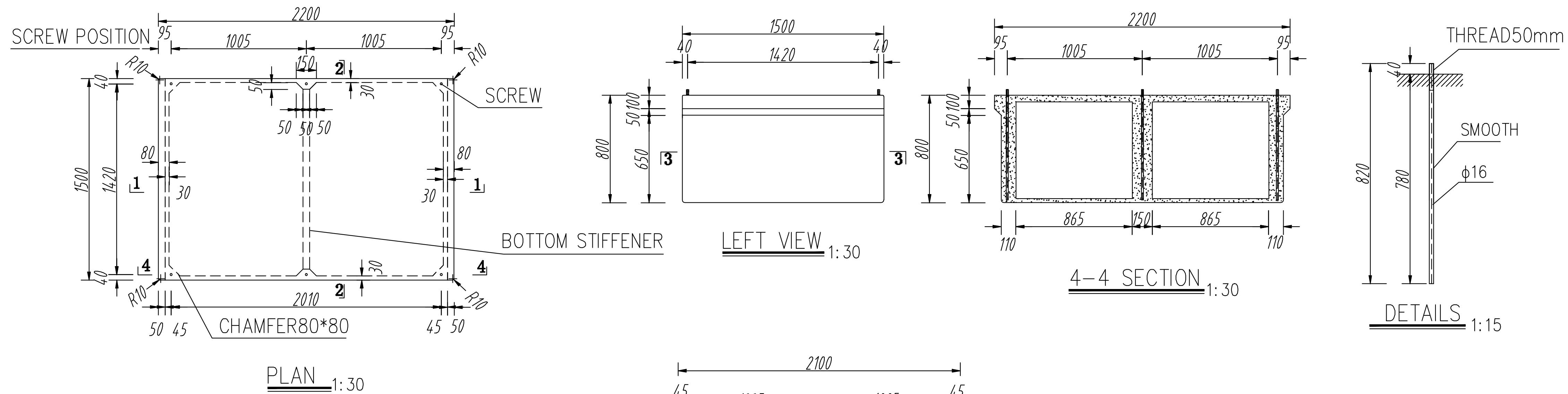


B  
—  
ELEVATION VIEW  
METHOD 1

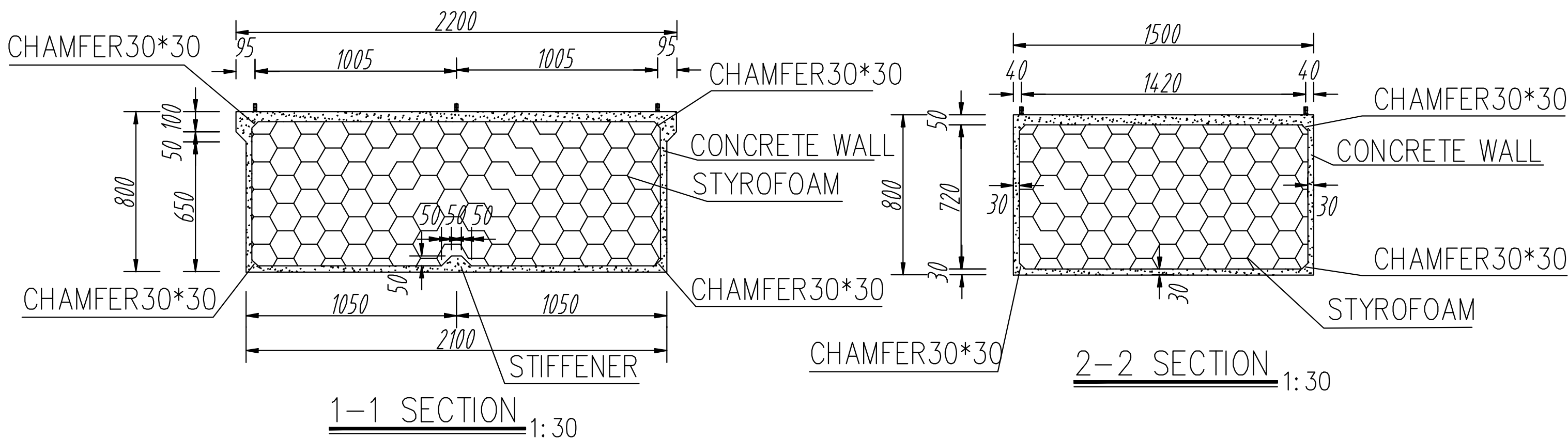
B  
—  
ELEVATION VIEW  
METHOD 2

| GANGWAY MODEL | A      | B     |
|---------------|--------|-------|
|               | LENGTH | WIDTH |
| MINIMUM       | 3m     | 0.9m  |
| MAXIMUM       | 18m    | 2.2m  |

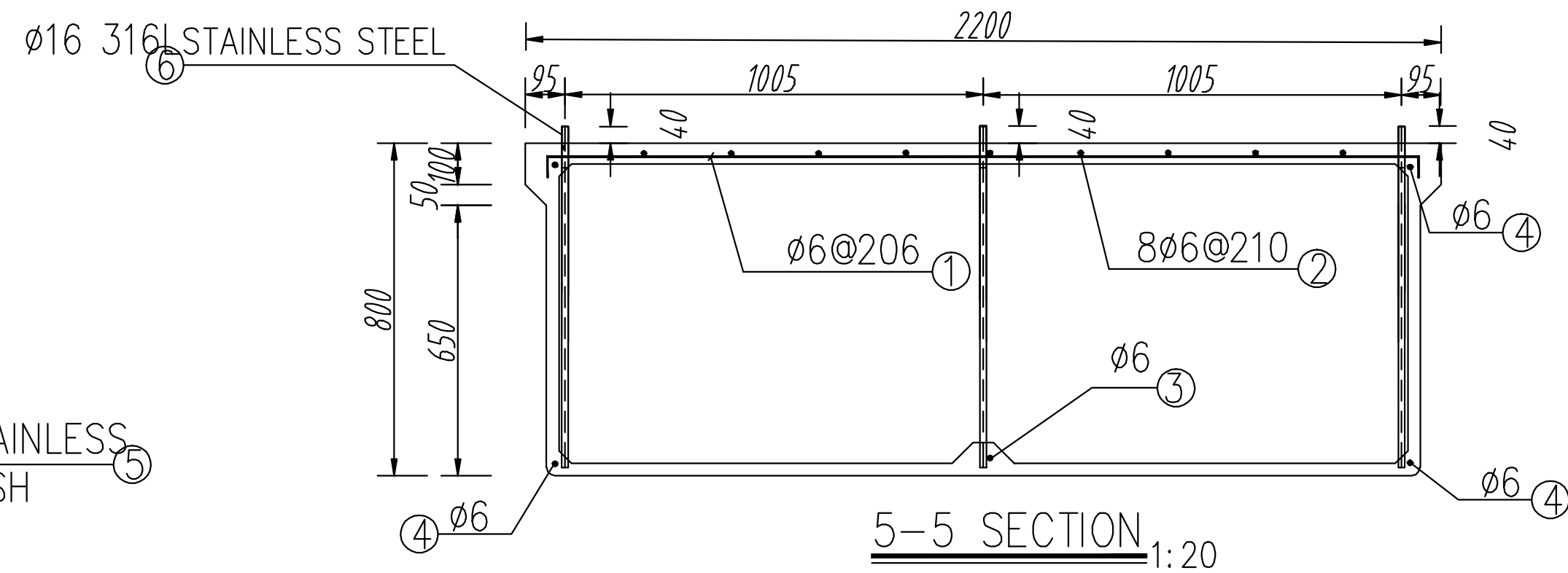
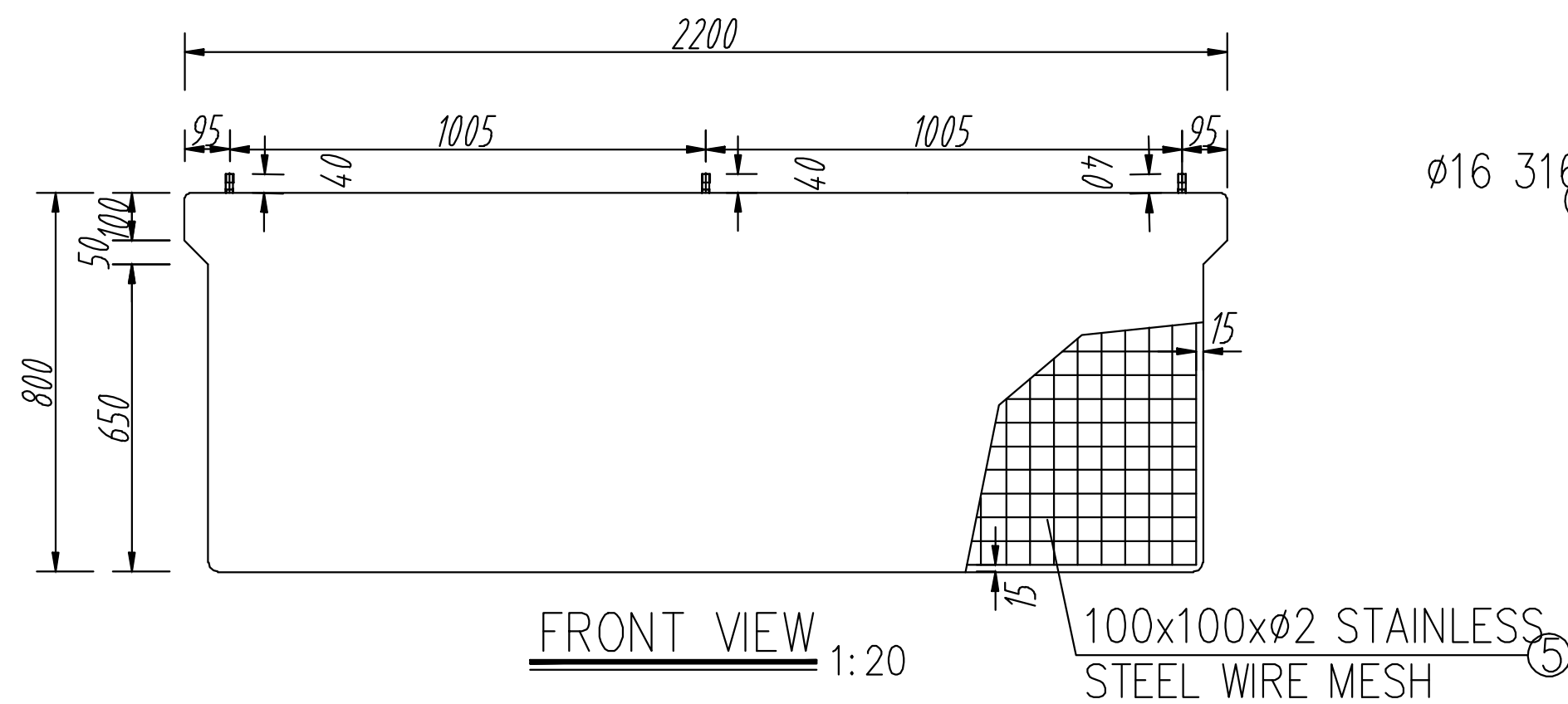
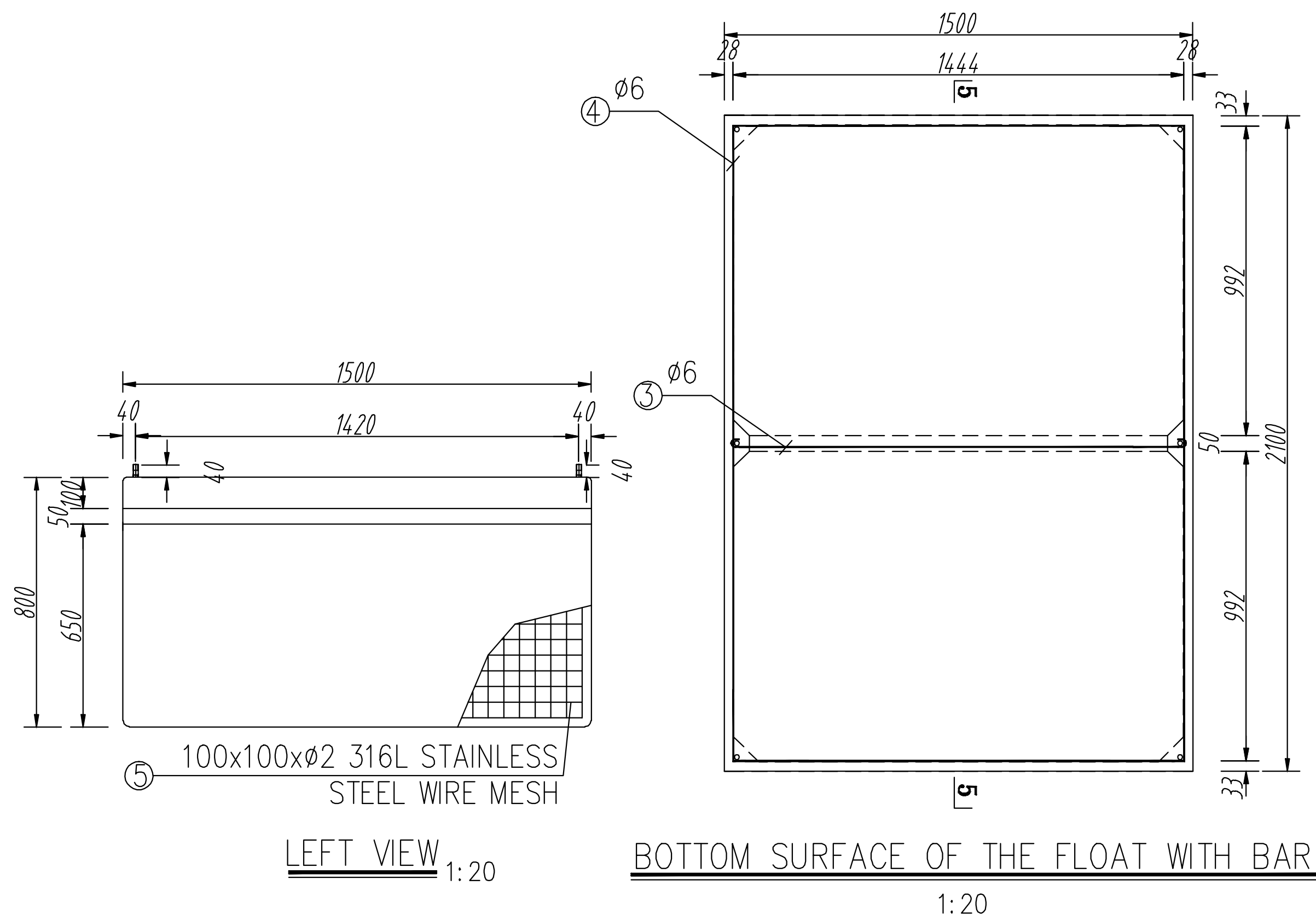
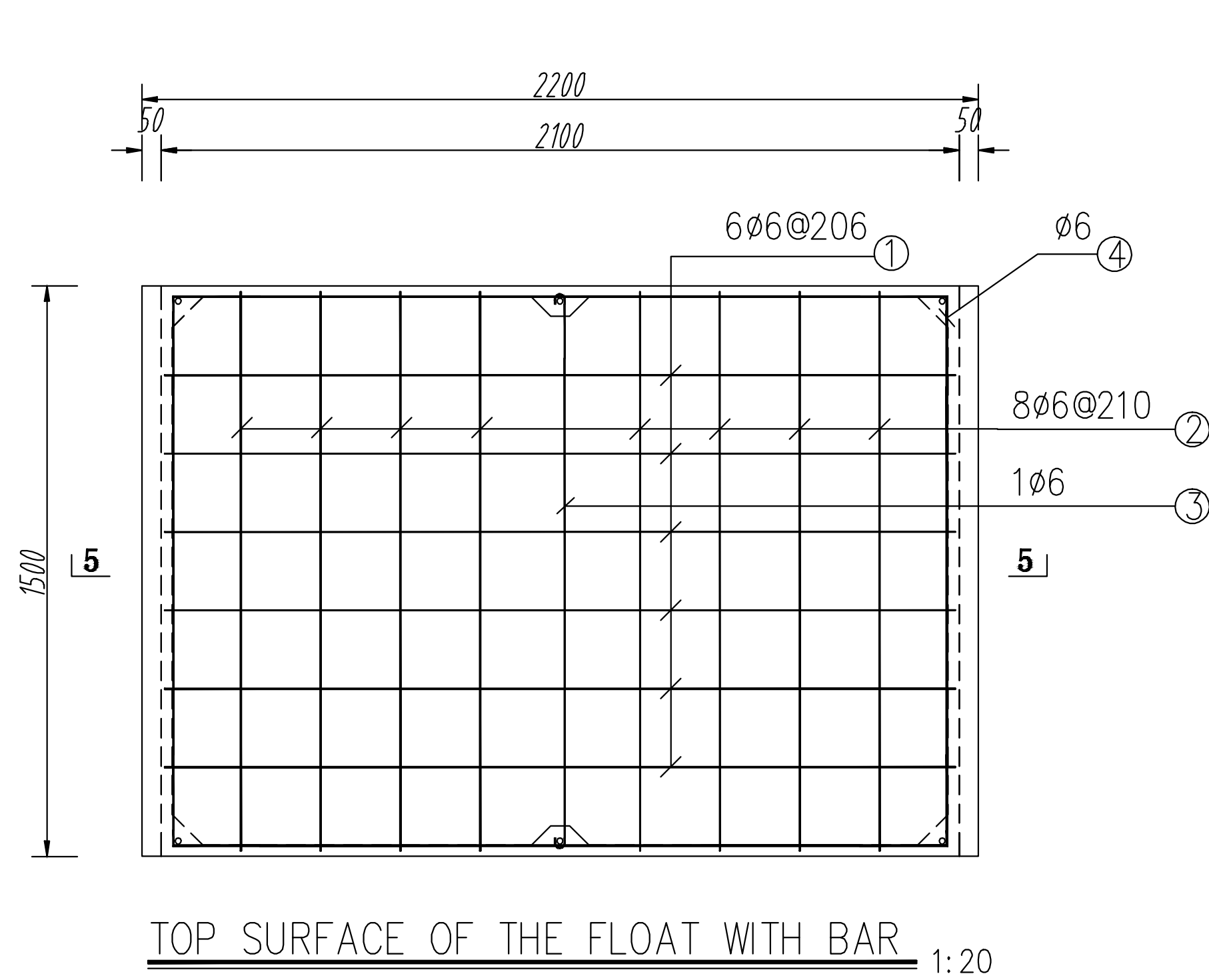




- NOTES
1. ALL DIMENSIONS ARE IN MILLIMETRE.
  2. CONCRETE FLOAT'S WALL THICKNESS IS 30MM, ALLOWABLE DEVIATION IS 2MM;
  3. 316L STAINLESS STEEL WIRE MESH IS IN THE MIDDLE OF CONCRETE SHELL
  4. ADOPTING HIGH STRENGTH CONCRETE, LABELED C50;
  5. THE FLOATS SUIT IN SEAWATER ENVIRONMENT, WITH REASONABLE CONCRETE MIX, ADDING ADDITIVES;
  6. THERE ARE STEEL BARS ON THE TOP AND BOTTOM OF THE FLOATS, 316L STAINLESS STEEL WIRE MESH IS LOCATED ON SIDE AND BOTTOM OF FLOATS, ALL WIRE MESH AND STEEL BARS SHALL BE CONNECTED INTO ONE.
  7. A SINGLE CONCRETE FLOAT WEIGHTS 1.1T, FREEBOARD IS ABOUT 430MM, BUOYANCY IS 9.7KN.
  8. THE FLOAT IS FILLED WITH STYROFOAM OF 15KG/M







| MATERIAL TABLE |         |                    |            |               |     |                                |                |            |               |
|----------------|---------|--------------------|------------|---------------|-----|--------------------------------|----------------|------------|---------------|
| NO.            | DIAGRAM | SIZE(mm)           | LENGTH(mm) | NO. ( STRIP ) | NO. | DIAGRAM                        | SIZE(mm)       | LENGTH(mm) | NO. ( STRIP ) |
| 1              |         | ø6                 | 2180       | 6             | 6   |                                | 316L STEEL ø16 | 820        | 6             |
| 2              |         | ø6                 | 1470       | 8             | 7   | CONCRETE : 0.452m <sup>3</sup> |                |            |               |
| 3              |         | ø6                 | 1530       | 2             |     |                                |                |            |               |
| 4              |         | ø6                 | 7456       | 2             |     |                                |                |            |               |
| 5              |         | 316L<br>100x100xø2 | 2070x760   | 2             |     |                                |                |            |               |
|                |         |                    | 1470x760   | 2             |     |                                |                |            |               |
|                |         |                    | 2070x1470  | 1             |     |                                |                |            |               |

- NOTES**
- 1.ALL DIMENSIONS ARE IN MILLIMETRE.
  - 2.ALL STEELS USE 316L STAINLESS STEEL.

**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:

- Slabs, Slabs & Walls = 25mm  
Beams (main bars) = 25mm  
Post-tensioned beams = 40mm  
Columns (main bars) = 30mm  
Foundations = 50mm
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 4483.  
7. Minimum laps to all bars to be 500 unless stated otherwise.

8. Safe Bearing Pressure taken to be 450 KN/m<sup>2</sup>.  
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/mm<sup>2</sup>.







DRAWING TITLE: PROPOSED FISH LANDING SITES/MARKETS FISHERIES OFFICES - KILIFI

DRAWING NUMBER: 10-003E- 001

| No. | DRAWING/ DOCUMENT TITLE                          | DRAWING NUMBER | DRAWING SHEET | DRAWING FORMAT | DOCUMENT STATUS |
|-----|--|----------------|---------------|----------------|-----------------|
| D   | ELECTRICAL ENGINEERING DRAWINGS                  |                |               |                |                 |
| 1   | LIST OF DRAWINGS                                 | 10- 003E- 001  | A3            | PDF/ EXCEL     | Provided        |
| 2   | LIGHTING & POWER SYSTEM GENERAL NOTES            | 10- 003E- 002  | A3            | PDF/ DWG       | Provided        |
| 3   | ELECTRICAL SCHEDULE OF SYMBOLS                   | 10- 003E- 003  | A3            | PDF/ DWG       | Provided        |
| 4   | POWER HOUSE GROUND FLOOR LIGHTING LAYOUT         | 10- 003E- 004  | A2            | PDF/ DWG       | Provided        |
| 5   | POWER HOUSE GROUND FLOOR POWER LAYOUT            | 10- 003E- 005  | A2            | PDF/ DWG       | Provided        |
| 6   | POWER HOUSE GROUND FLOOR FIRE ALARM LAYOUT       | 10- 003E- 006  | A2            | PDF/ DWG       | Provided        |
| 7   | FISH GEAR STORE GROUND FLOOR LIGHTING LAYOUT     | 10- 003E- 007  | A2            | PDF/ DWG       | Provided        |
| 8   | FISH GEAR STORE GROUND FLOOR POWER LAYOUT        | 10- 003E- 008  | A2            | PDF/ DWG       | Provided        |
| 9   | FISH GEAR STORE GROUND FLOOR FIRE ALARM LAYOUT   | 10- 003E- 009  | A2            | PDF/ DWG       | Provided        |
| 10  | FISH GEAR STORE GROUND FLOOR CCTV LAYOUT         | 10- 003E- 010  | A2            | PDF/ DWG       | Provided        |
| 11  | OPEN AIR MARKET GROUND FLOOR LIGHTING LAYOUT     | 10- 003E- 011  | A2            | PDF/ DWG       | Provided        |
| 12  | OPEN AIR MARKET GROUND FLOOR POWER LAYOUT        | 10- 003E- 012  | A2            | PDF/ DWG       | Provided        |
| 13  | OPEN AIR MARKET GROUND FLOOR FIRE ALARM LAYOUT   | 10- 003E- 013  | A2            | PDF/ DWG       | Provided        |
| 14  | OPEN AIR MARKET GROUND FLOOR CCTV LAYOUT         | 10- 003E- 014  | A2            | PDF/ DWG       | Provided        |
| 15  | OPEN AIR MARKET GROUND FLOOR FANS LAYOUT         | 10- 003E- 015  | A2            | PDF/ DWG       | Provided        |
| 16  | FISH BANDA GROUND FLOOR LIGHTING LAYOUT          | 10- 003E- 016  | A2            | PDF/ DWG       | Provided        |
| 17  | FISH BANDA GROUND FLOOR POWER LAYOUT             | 10- 003E- 017  | A2            | PDF/ DWG       | Provided        |
| 18  | FISH BANDA GROUND FLOOR FIRE ALARM LAYOUT        | 10- 003E- 018  | A2            | PDF/ DWG       | Provided        |
| 19  | FISH BANDA GROUND FLOOR CCTV LAYOUT              | 10- 003E- 019  | A2            | PDF/ DWG       | Provided        |
| 20  | FISH BANDA GROUND FLOOR FANS LAYOUT              | 10- 003E- 020  | A2            | PDF/ DWG       | Provided        |
| 21  | FISH GEAR MENDING GROUND FLOOR LIGHTING LAYOUT   | 10- 003E- 021  | A2            | PDF/ DWG       | Provided        |
| 22  | FISH GEAR MENDING GROUND FLOOR POWER LAYOUT      | 10- 003E- 022  | A2            | PDF/ DWG       | Provided        |
| 23  | FISH GEAR MENDING GROUND FLOOR FIRE ALARM LAYOUT | 10- 003E- 023  | A2            | PDF/ DWG       | Provided        |
| 24  | FISH GEAR MENDING GROUND FLOOR CCTV LAYOUT       | 10- 003E- 024  | A2            | PDF/ DWG       | Provided        |
| 25  | FISH GEAR MENDING GROUND FLOOR FANS LAYOUT       | 10- 003E- 025  | A2            | PDF/ DWG       | Provided        |
| 26  | PUMP ROOM GROUND FLOOR LIGHTING LAYOUT           | 10- 003E- 026  | A2            | PDF/ DWG       | Provided        |
| 27  | PUMP ROOM GROUND FLOOR POWER LAYOUT              | 10- 003E- 027  | A2            | PDF/ DWG       | Provided        |
| 28  | PUMP ROOM GROUND FLOOR FIRE ALARM LAYOUT         | 10- 003E- 028  | A2            | PDF/ DWG       | Provided        |
| 29  | FISH BANDA FIRST FLOOR LIGHTING LAYOUT           | 10- 003E- 029  | A2            | PDF/ DWG       | Provided        |
| 30  | FISH BANDA FIRST FLOOR POWER LAYOUT              | 10- 003E- 030  | A2            | PDF/ DWG       | Provided        |
| 31  | FISH BANDA FIRST FLOOR FIRE ALARM LAYOUT         | 10- 003E- 031  | A2            | PDF/ DWG       | Provided        |
| 32  | POWER HOUSE SCHEMATIC LAYOUT                     | 10- 003E- 032  | A2            | PDF/ DWG       | Provided        |
| 33  | FISH GEAR STORE SCHEMATIC LAYOUT                 | 10- 003E- 033  | A2            | PDF/ DWG       | Provided        |
| 34  | OPEN AIR MARKET SCHEMATIC LAYOUT                 | 10- 003E- 034  | A2            | PDF/ DWG       | Provided        |
| 35  | FISH BANDA SCHEMATIC LAYOUT                      | 10- 003E- 035  | A2            | PDF/ DWG       | Provided        |
| 36  | FISH GEAR MENDING SCHEMATIC LAYOUT               | 10- 003E- 036  | A2            | PDF/ DWG       | Provided        |
| 37  | PUMP ROOM SCHEMATIC LAYOUT                       | 10- 003E- 037  | A2            | PDF/ DWG       | Provided        |
| 38  | SITE PLAN ELECTRICAL LAYOUT                      | 10- 003E- 038  | A2            | PDF/ DWG       | Provided        |
| 39  | STREET LIGHT DETAIL                              | 10- 003E- 039  | A2            | PDF/ DWG       | Provided        |
| 40  | SOLAR POWER SCHEMATIC                            | 10- 003E- 040  | A2            | PDF/ DWG       | Provided        |
| 41  | PUMP HOUSE CCTV LAYOUT                           | 10- 003E- 041  | A2            | PDF/ DWG       | Provided        |
| 42  | POWER HOUSE CCTV LAYOUT                          | 10- 003E- 042  | 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 EXCEPT IN WET AREAS WHERE IT SHALL BE 1500mm 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 POSITIONS 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 LIAISE WITH KPJC 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 KPJC 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-STRIKING.
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 CONSULTANTS' 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 SANDBAG THE MANHOLES AND DRAW 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/SWA/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 WEATHERPROOF 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 LIGHTNING 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 '1' 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 ALUMINUM PAINT OR SIMILAR ANTIRUST 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 TESTING 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 2HRS 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 LIASE WITH ELV 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 LINX 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 MEANT TO FACILITATE THE CONTRACTOR THE PROPOSED ROUTING OF THE MAIN AND SUB-MAIN. THE CONTRACTOR SHALL SIZE THE TRUNKING/CABLE TRAY BASED ON THE EXACT CABLE SPACE AND CODE REQUIREMENTS. THE CONTRACTOR SHALL ALLOW 20% SPARE SPACE FOR FUTURE CABLE LAYING.
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 MATRIX. ALL DEVICES, INTERFACE, 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 MCCB'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 MCCBs/MPCBs USED FOR PROTECTION OF MOTOR LOADS SHALL BE OF TYPE D CHARACTERISTIC. HOWEVER, MOTOR PROTECTION COORDINATION STUDY SHALL BE SUBMITTED BY THE CONTRACTOR FOR ENGINEER'S/CONSULTANT'S REVIEW AND APPROVAL.
3. MCCBs/MCBs 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 CTs SHALL BE OF CLASS COMPLYING TO DEWA REQUIRENT OR BETTER.
5. ALL METERING CTs 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, 1433 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 DERATING 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 BASING ON THE CHARACTERISTICS OF THE EQUIPMENT OFFERED AND THE ACTUAL/AGREED ROUTING (SUBJECT TO THE SUPERVISING CONSULTANT APPROVAL) OF THE ACTUAL/AGREED ROUTING (SUBJECT TO THE SUPERVISING CONSULTANT APPROVAL) OF THE CABLES AND THEREAFTER SELECT THE MOST APPROPRIATE RUPTURING 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. IDMTL 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 BUTTON RIGHT NEXT TO THE EQUIPMENT.
19. UNLESS OTHERWISE INDICATED, THE MCCBs/MCBs 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 IDENTICAL IN ALL ROOMS AS MUCH AS POSSIBLE.
3. ALL MATERIALS/ 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 IN RESPECTIVE ROOMS TO SUIT SITE CONDITIONS, ETC. FOR REVIEW BY THE SUPERVISING CONSULTANT BEFORE COMMENCEMENT OF INSTALLATION.
5. ALL ELECTRICAL AND ELV 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 IEC 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 LIAISE WITH MAIN CONTRACTOR FOR INSTALLATION OF EARTH ELECTRODE PITS. WATER PROOFING FOR ELECTRODES THROUGH R.C. SLAB SHALL BE PROVIDED UNDER THIS CONTRACT.
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 INTERCONNECTION OF THE EARTH POINT.
2. EARTH RESISTMITY TEST SHALL BE CARRIED AT EACH EARTHING POINT.
3. ALL TAPE/CABLES/CLAMP CONTACT SURFACE SHALL BE HEAVILY TINNED PRIOR TO CONNECTION.
4. PRECAUTIONARY MEASURES SHALL BE TAKEN SO AS NOT TO OVER EXCAVATE THE EARTHING PIT.
5. PROPRIETARY CAD WELD CONNECTION SHALL BE EMPLOYED FOR CONNECTING EARTH CABLE TO EARTHING POINT STRICTLY 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 INGRESS OF GROUND WATER. GROUTING MATERIALS USED SHALL BE SUBJECT TO CONSULTANT'S APPROVAL.

CABLES AND ANCILLARY PRODUCTS

1. ALL CABLES / WIRES FOR FINAL SUB-CIRCUIT WIRINGS SHALL BE PVC, MULTI-STRAND COPPER CONDUCTORS.
2. 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 SEVICES.
3. SEPARATE CONDUIT/MULTI-GANG SWITCH BOX SHALL BE PROVIDED FOR FINAL SUB-CIRCUIT OF DIFFERENT PHASES. ALSO A SIGN SHALL BE PROVIDED TO INDICATE THE VOLTAGE BETWEEN THEM IN ACCORDANCE WITH DEWA 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-MAINS 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 LOOPED 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 UNDERFLOOR JUNCTION BOXES.
10. THE SIZES OF CABLE TRAY/TRUNKING/CONDUIT AS SHOWN IN DRAWINGS ARE APPROXIMATE ONLY. ELECTRICAL SUB-CONTRACTOR IS DEEMED TO HAVE ALLOWED IN HIS TENDER PRICE FOR ALL NECESSARY ADJUSTMENT TO ACCOMMODATE THE CABLES AND SHALL SUBMIT ALL DETAILED CO-ORDINATED CABLE CONDUIT/TRUNKING/TRAY/ LADDER ROUTE PLANS AND SECTION DRAWINGS TO THE SUPERVISION CONSULTANT FOR CLEARANCE PRIOR TO STARTING WORK ON SITE.
11. ALL UNDERGROUND CABLES CROSSING DRIVEWAYS OR HARDCORE 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 / SWA / LSOH FOR NORMAL CRUIT AND XLPE / SWA / FR FOR EMERGENCY CIRCUITS.

LUMINAIRES

1. ALL LIGHTING SWITCHES SHALL COMPLY WITH CIBSE 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 EXIT 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

SWITCH SOCKET OUTLETS

DISTRIBUTION BOARDS

WALL/COLUMN LIGHTS

– 1400mm TO CENTRELINE

– 300mm TO CENTRELINE

– GENERALLY 1800mm TO TOP OF BOARD

– 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 HAVE ALLOWED 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 LMCP OR AS OTHERWISE SHOWN ON PLAN.

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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF  
OFFICE & RELATED  
INFRASTRUCTURE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

























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DRAWING TITLE:

ELECTRICAL DRAWINGS  
NOTES

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| Dwg. No.     | 05- 003E- 002 |           |  |
| Scale:       | NTS           |           |  |
| Drawn by     |               | Chek'd By |  |
| Project no.: | Date:         |           |  |
| 05           | 24.11.2023    |           |  |

SCHEDULE OF SYMBOLS AND LIGHTING LUMINAIRES

|   |  |
|---|--|
|    | 10A 1 GANG 1 WAY white moulded switch plates   |
|    | 10 2 GANG 1 WAY white moulded switch plates  |
|    | 10A 3 GANG 1 WAY white moulded switch plates   |
|    | 10A 3 GANG 1 WAY white moulded switch plates   |
|    | 10A 1 GANG 2 WAY white moulded switch plates   |
|    | 10A 2 GANG 2 WAY white moulded switch plates   |
|    | 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                                     |
|    | 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                                   |
|    | TPN Distribution Board<br>Complete with 100A TP integral isolator and all accessories including lockable cover with the the required MCB's and Blanking plates   |
|  | SPN Consumer Unit<br>complete with 100A SPN integral isolator and all accessories including lockable cover with the the required MCB's and Blanking plates   |
|  | Outlet for RJ45 face plate, complete with concealed HG PVC conduit, square PVC box, draw wire and blanking plate   |
|  | Outlet for Television coaxial cable outlet point, complete with concealed HG PVC conduit, square PVC box, draw wire and TV outlet point  |
|  | Outlet for cooker control unit comprising wiring in 3x6.0mm2 SC-PVC CU cables, twin box Dia. 25mm socket with neon lamp  |
|  | 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                                   |
|  | Extra Low Voltage manhole<br>HG PVC conduit link, and all accessories including 45A DP cooker control unit with neon lamp, and 13A integral  |
|  | Power manhole  |
|  | 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 |
|  | 400mm Wide Cable Ladder  |
|  | 400mm Wide Cable Tray for Power  |
|  | 400mm Wide Cable Tray for Data   |
|  | Addressable Heat Detector  |
|  | Addressable Fire Alarm Control Panel   |
|  | Addressable Smoke Detector   |
|  | Addressable Push Button, Electric Sounder & Beacon   |

|   |   |
|---|---|
|    | 1200mm 12W LED Mirror Front Light, surface mounted, 4000K Bathroom Mirror Light   |
|    | High Quality Ultra Thin 12W Led Panel 300X300Mm Square Panel Light Indoor Lighting For Bathroom Type 2  |
|    | Type 'N' 12W LED 2D fixture for installation in stairwells and corridors  |
|    | Type Maintained LED fixture for Emergency installation with 3 - hour autonomy   |
|    | Type '4C' 34W 1200mm High performance LED IP65, dust and moisture resistant luminaire   |
|    | Type '4' 40W 1200mmX300mm High performance dust and moisture resistant luminarie  |
|    | Type 'C' 12W super efficient LED downlighter  |
|    | Type 'M' 50W Solar Floodlight for security lighting, mounted on building's walls  |
|   | 600x600mm, 36W, super efficient Surface LED modular luminaries with curved diffuser   |
|  | Type 'X' Bulkhead wall mounted light for the lift shaft   |
|  | 8W maintained LED Exit Emergency Light. Minimum 3-hour autonomy.  |
|  | PIR Motion Sensor   |
|  | 25mm x 3mm tinned annealed copper tape for both roof & down conductors  |
|  | 15mm multiple point copper air terminal complete with base  |
|  | Type 'F2' 1500W High Volume Low Speed (HVLS) 5 blade ceiling fan for auditorium.<br>Blade size: 12 feet; Fan Speed: 50RPM; Noise Level: 50DB    |
|  | Type 'F1' 49W 3 Blade Basic Ceiling Sweep Fan .<br>Sweep: 1200mm; Fan Speed: 350RPM   |
|  | IP 67- Water & Dust Resistant, 4MP, Excellent low- light performance, 24 colourful imaging, Efficient Compression Technology Bullet CCTV Camera |
|  | IP 67- Water & Dust Resistant, 4MP, Excellent low- light performance, 24 colourful imaging, Efficient Compression Technology DOME CCTV Camera   |



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PROJECT TITLE:

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CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

**SCHEDULE OF SYMBOLS  
AND LIGHTING  
LUMINAIRES**

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| Dwg. No.     | 05- 003E- 003 |            |  |
| Scale:       | NTS           |            |  |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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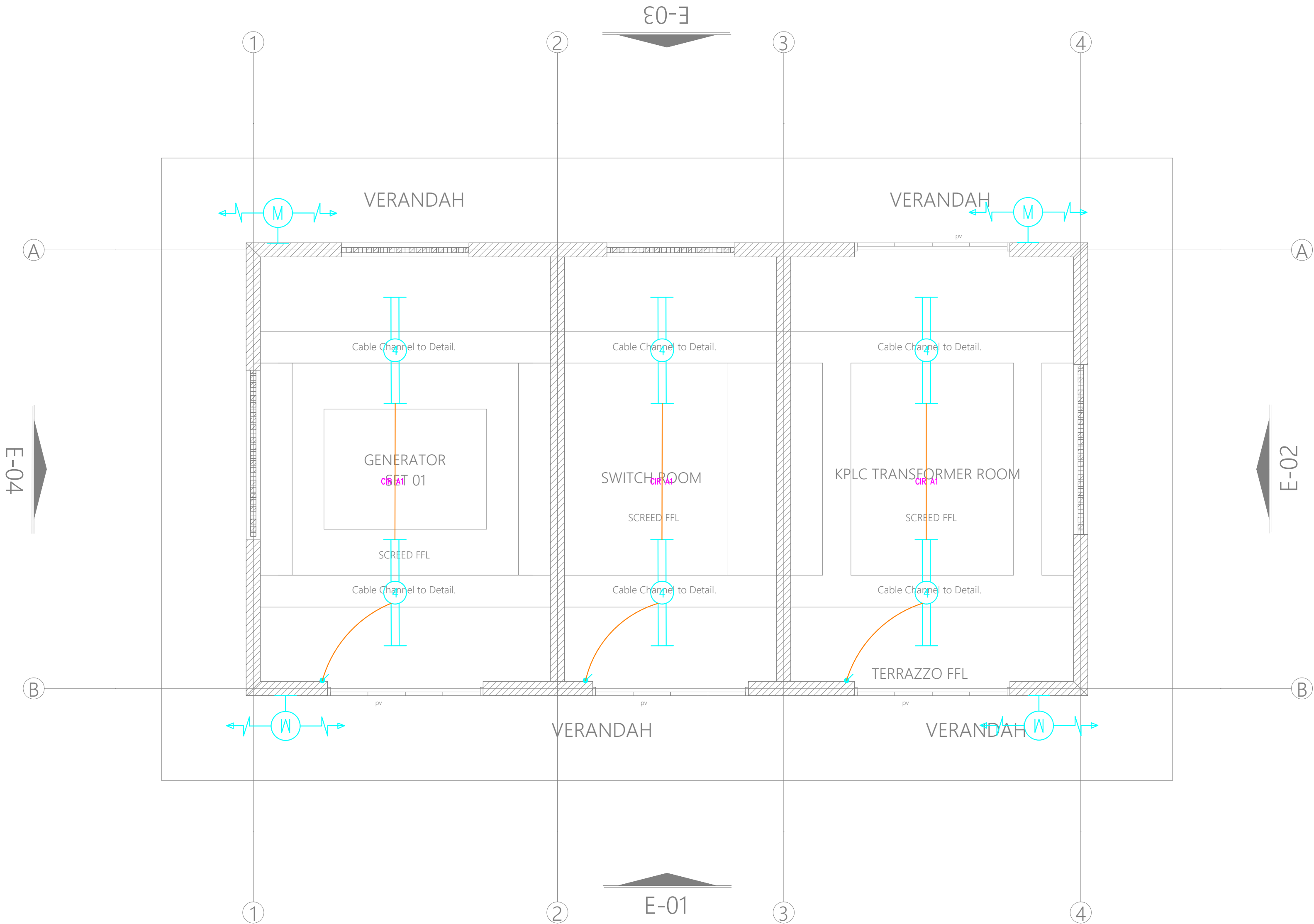
POWER HOUSE GROUND  
FLOOR LIGHTING LAYOUT

Dwg. No. 10- 003E- 004

Scale: NTS

Drawn by Chek'd By

Project no.: 10  
Date: 14.01.2024



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ECONOMY

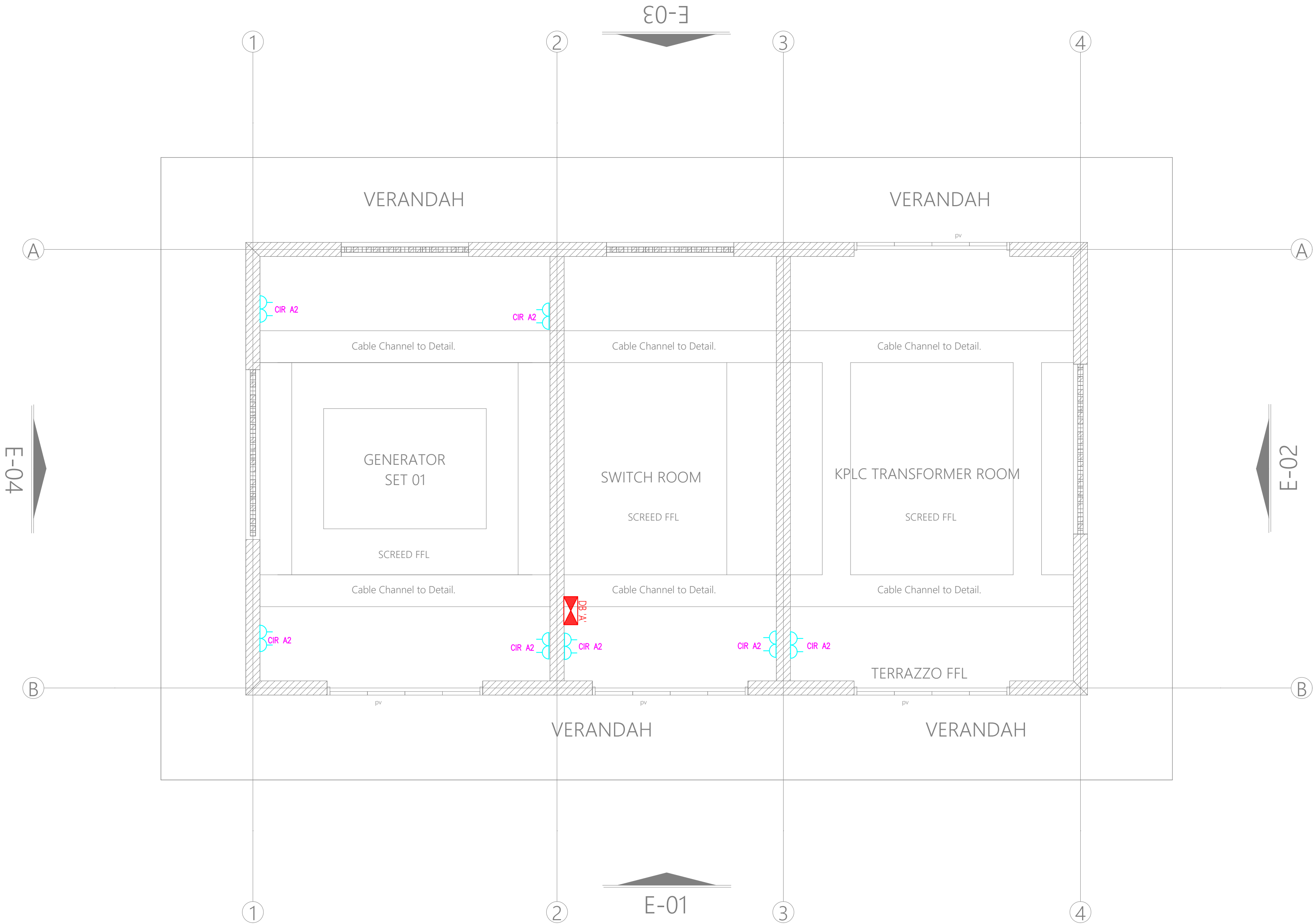
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DRAWING TITLE:

POWER HOUSE GROUND  
FLOOR POWER LAYOUT

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| Dwg. No.     | 10- 003E- 005 |           |  |
| Scale:       | NTS           |           |  |
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AQUACULTURE & THE BLUE  
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DRAWING TITLE:

**POWER HOUSE GROUND  
FLOOR FIRE ALARM  
LAYOUT**

Dwg. No. **10- 003E- 006**

Scale: NTS

Drawn by  Chek'd By

Project no.:  Date:

10 14.01.2024

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DRAWING TITLE:

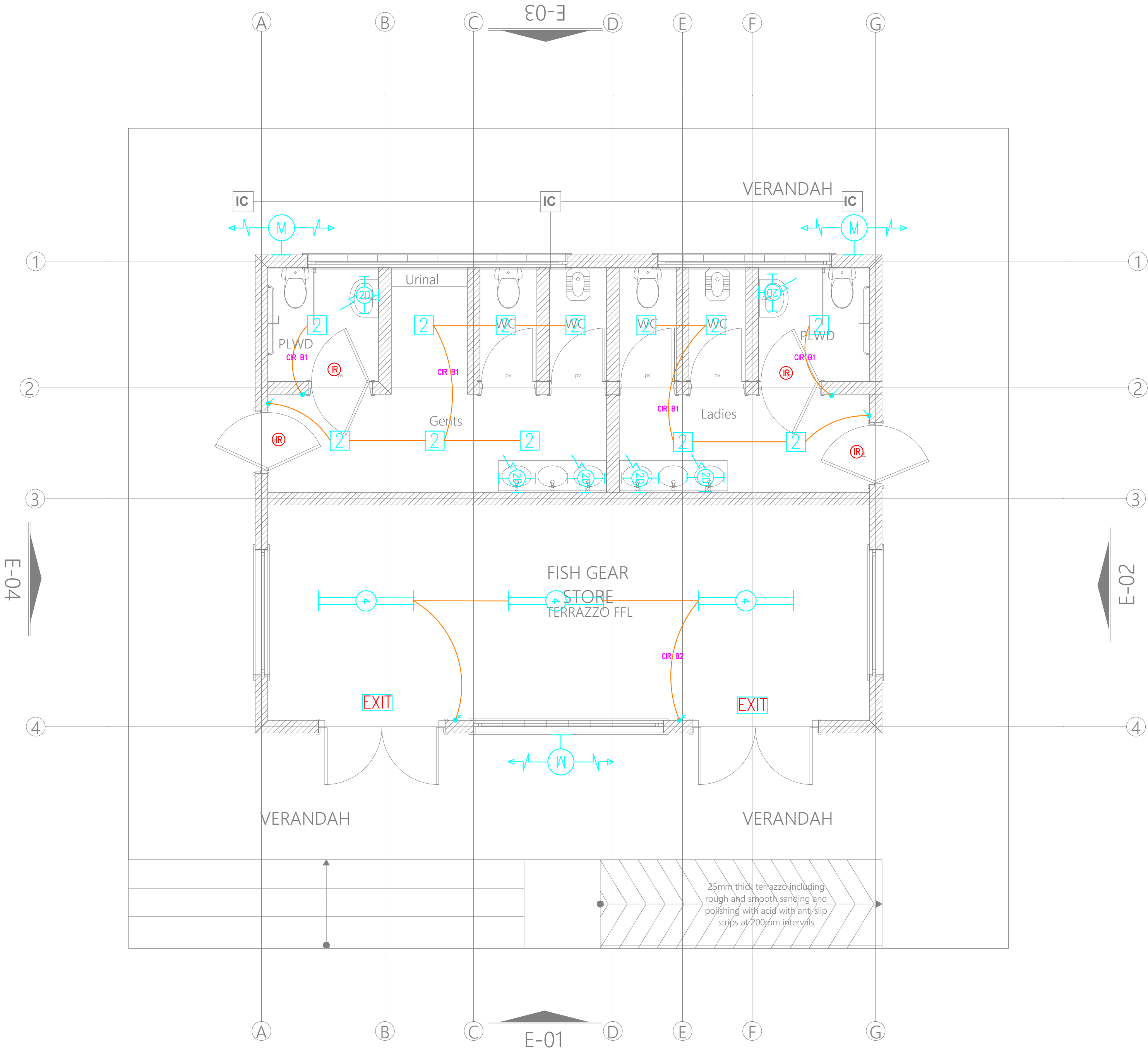
FISH GEAR STORE GROUND  
FLOOR LIGHTING LAYOUT

Dwg. No. 10- 003E- 007

Scale: NTS

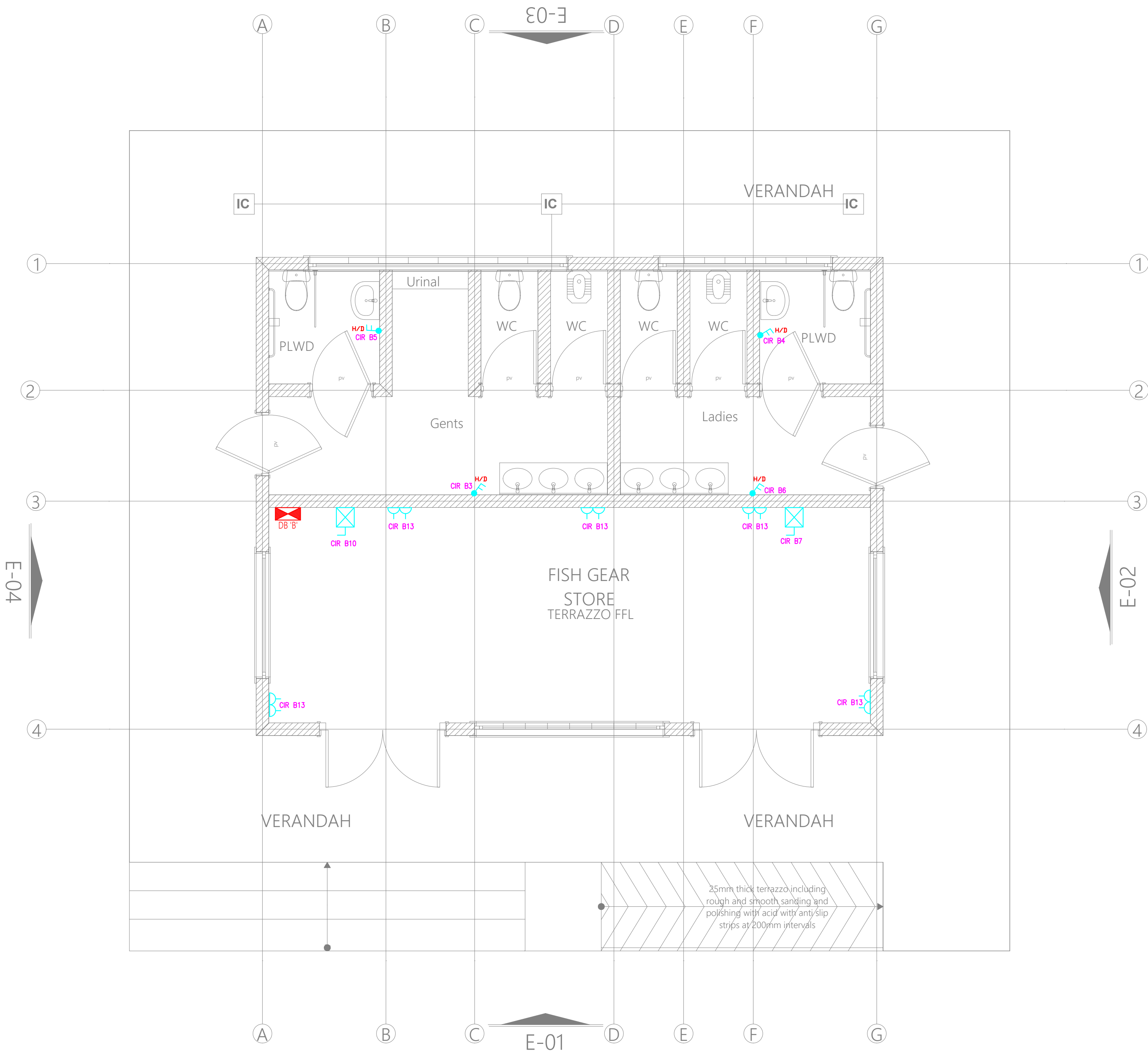
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AQUACULTURE & THE BLUE  
ECONOMY

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DRAWING TITLE:

FISH GEAR STORE GROUND  
FLOOR POWER LAYOUT

Dwg. No. 10- 003E- 008

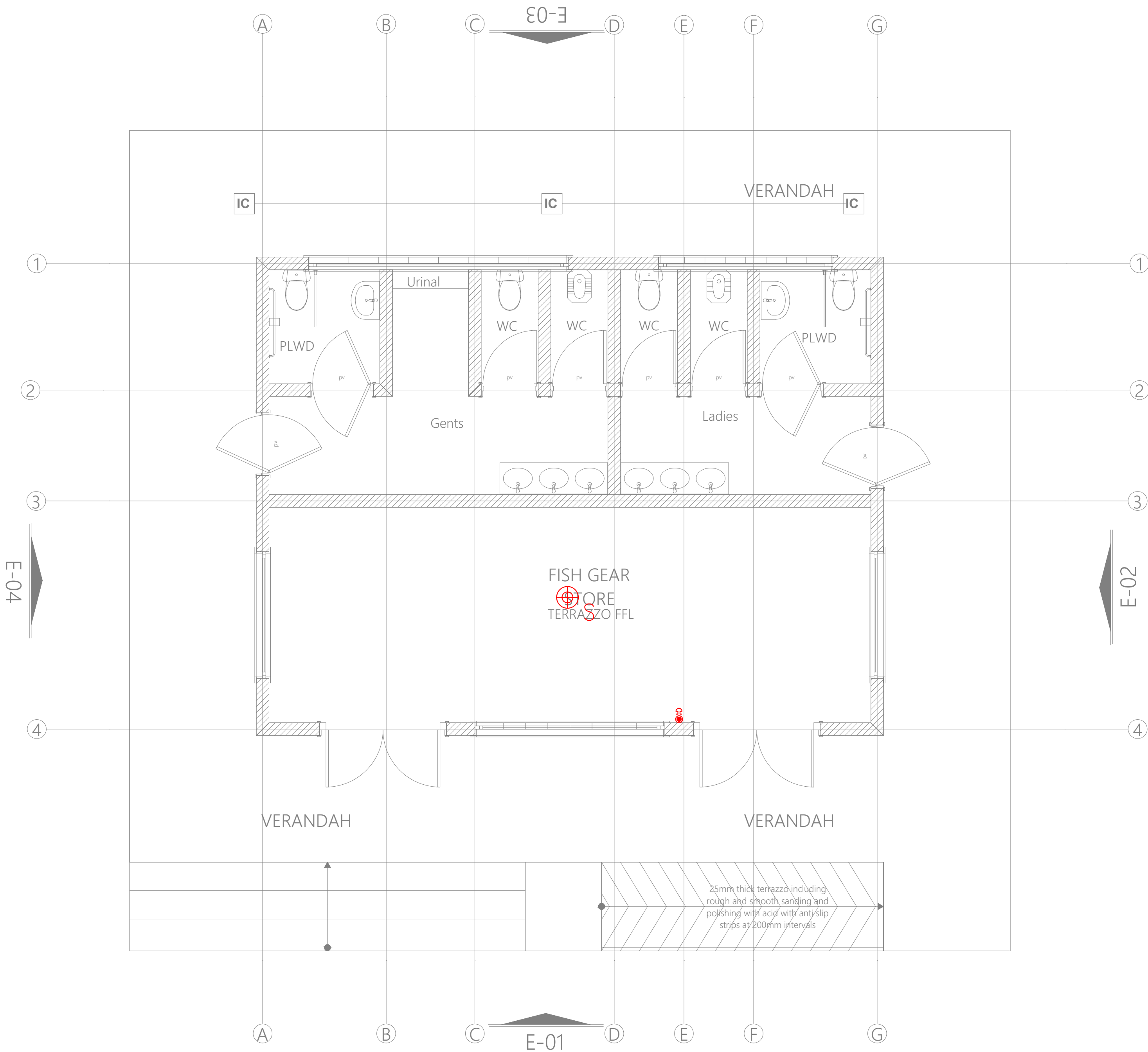
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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

FISH GEAR STORE GROUND  
FLOOR FIRE ALARM  
LAYOUT

Dwg. No. 10- 003E- 009

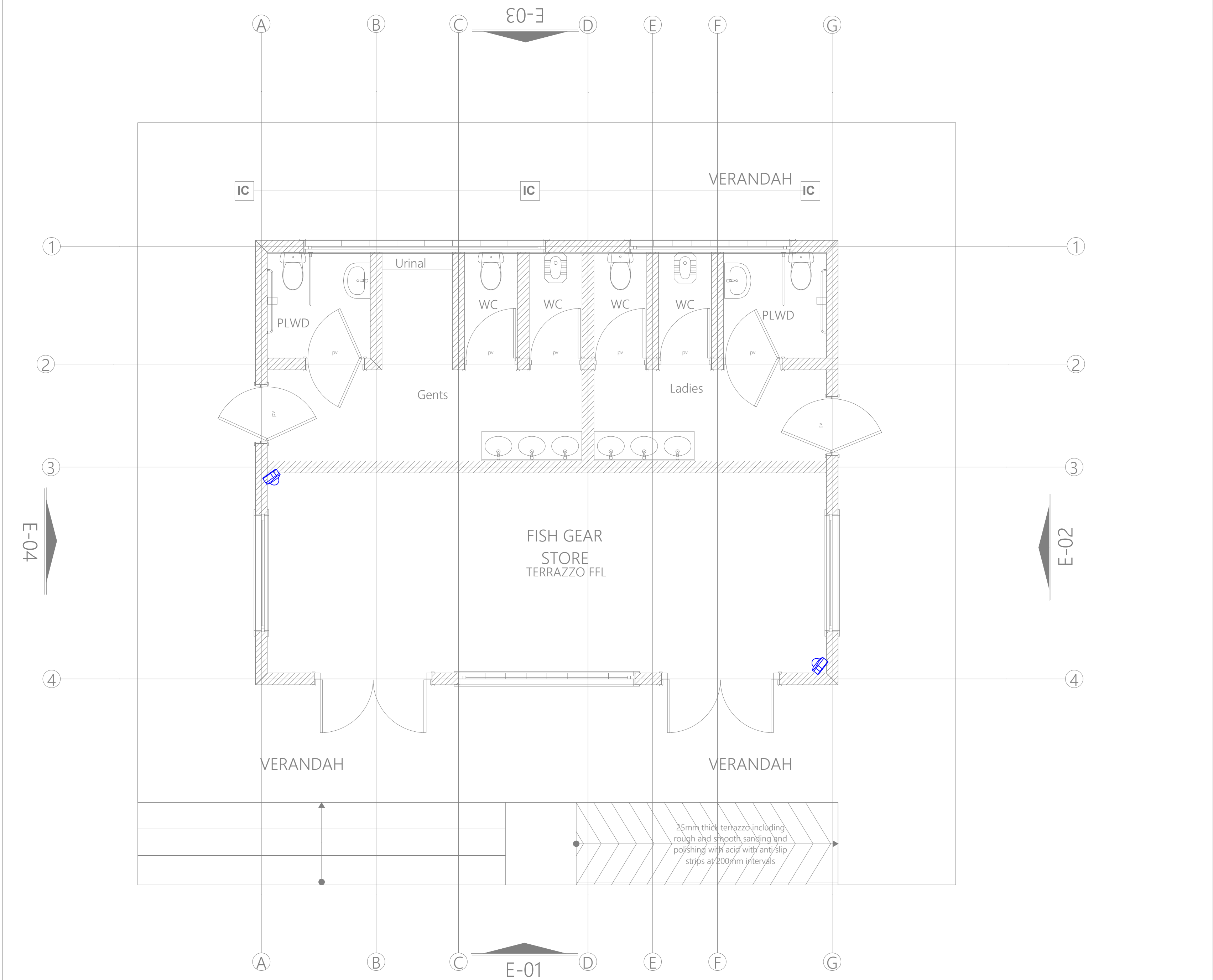
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Drawn by  Chek'd By

Project no.:  Date:

10 14.01.2024





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PO. BOX 12969-0040,  
NAIROBI, KENYA.

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REVISIONS:

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

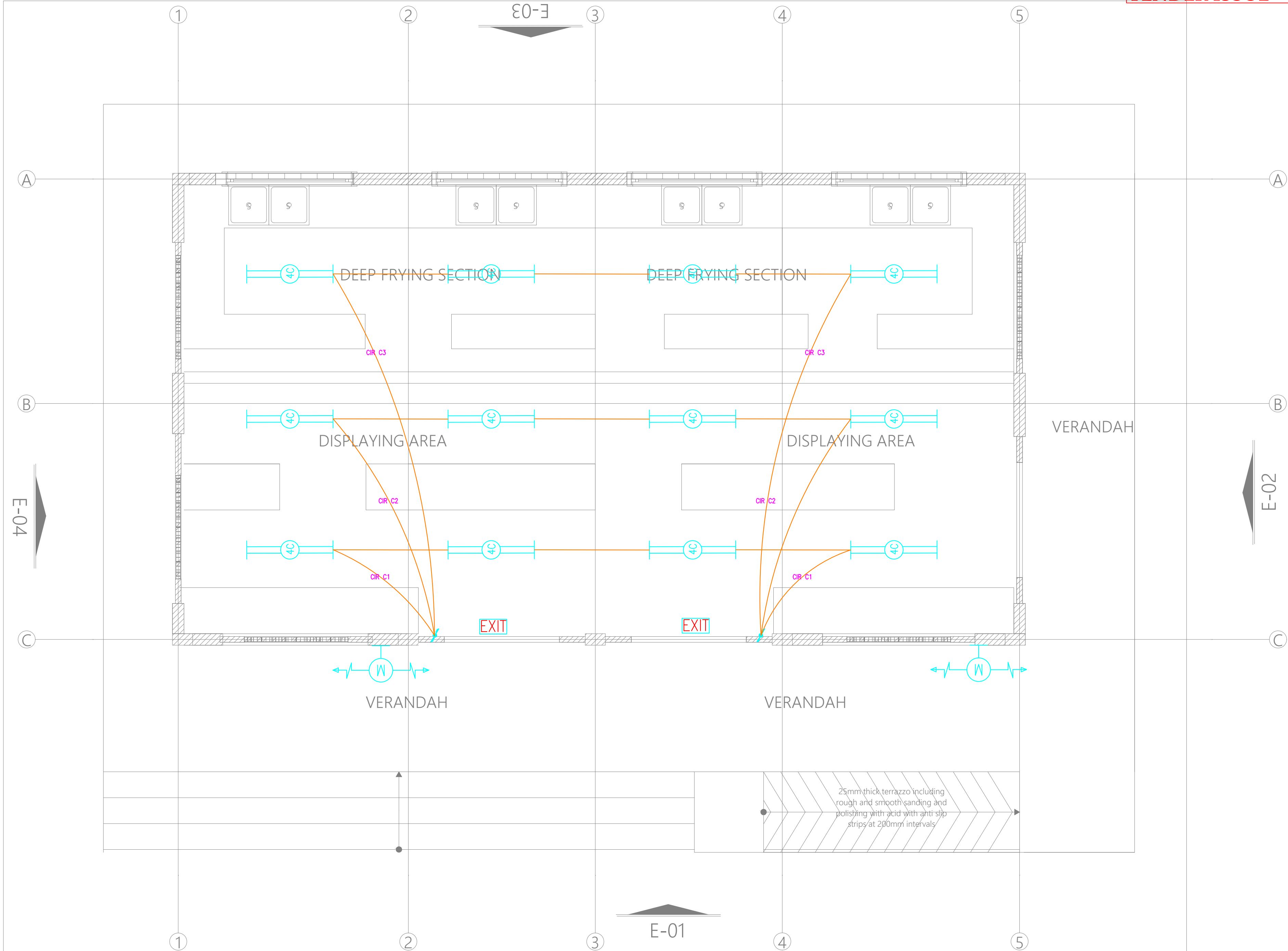
FISH GEAR STORE GROUND  
FLOOR CCTV LAYOUT

Dwg. No. 10- 003E- 010

Scale: NTS

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Project no.: 10 Date: 14.01.2024



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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

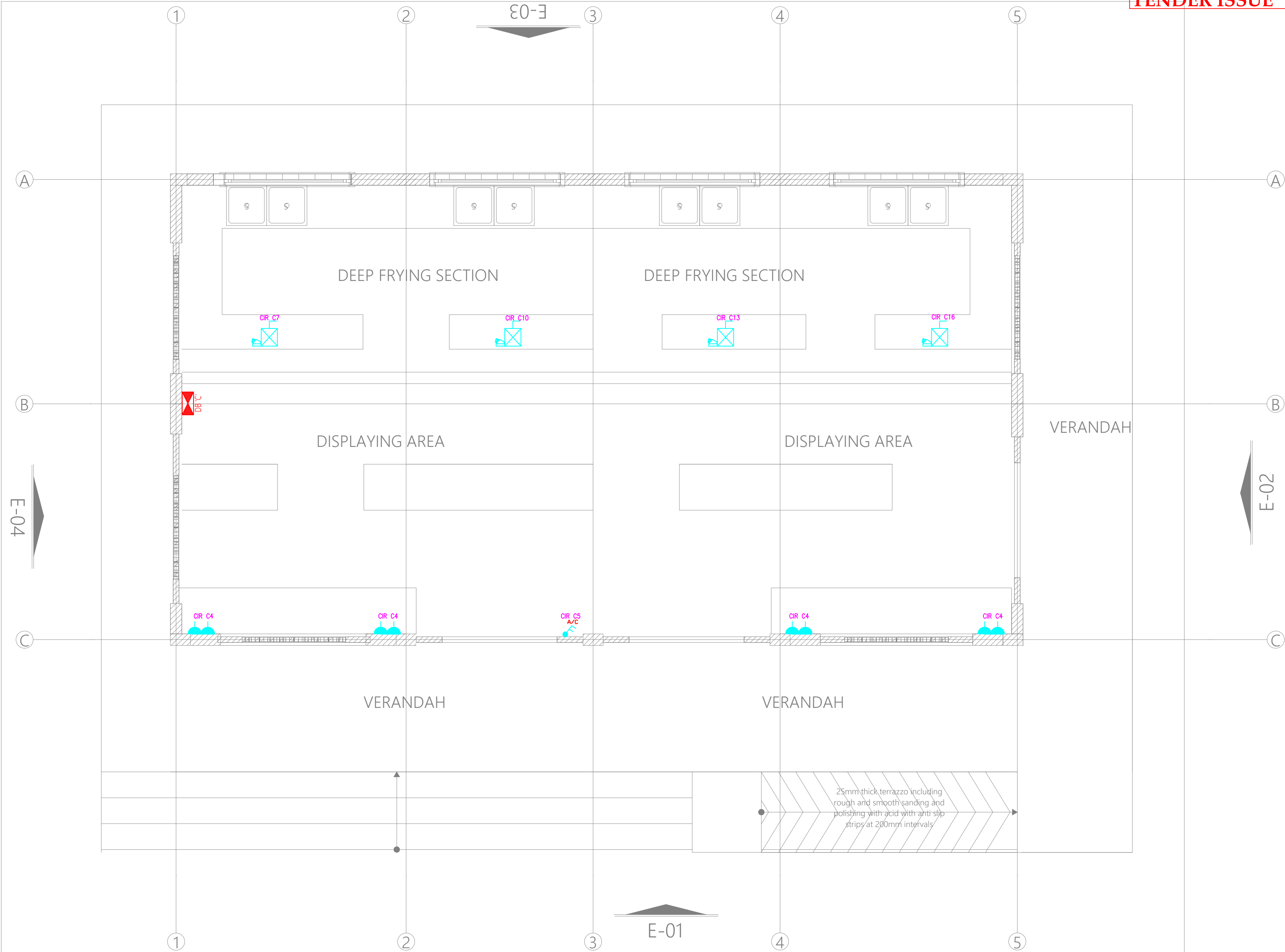
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DRAWING TITLE:

OPEN AIR MARKET  
GROUND FLOOR LIGHTING  
LAYOUT

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| Scale:       | NTS           |
| Drawn by     | Chek'd By     |
| Project no.: | Date:         |
| 10           | 14.01.2024    |





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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

OPEN AIR MARKET  
GROUND FLOOR POWER  
LAYOUT

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| Project no.: | Date:         |           |  |
| 10           | 14.01.2024    |           |  |

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**PROJECT TITLE:**

## PROPOSED CONSTRUCTION OF FISH LANDING SITES/MARKETS FISHERIES OFFICES

**CLIENT:**

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

**CLIENT'S SIGNATURE:**

Sign:

**DRAWING TITLE:**

## OPEN AIR MARKET GROUND FLOOR FIRE ALARM LAYOUT

Dwg. No. **10- 003E- 013**

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Project no.:

Date:

10

14.01.2024



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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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| Sign: |  |
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DRAWING TITLE:

OPEN AIR MARKET  
GROUND FLOOR CCTV  
LAYOUT

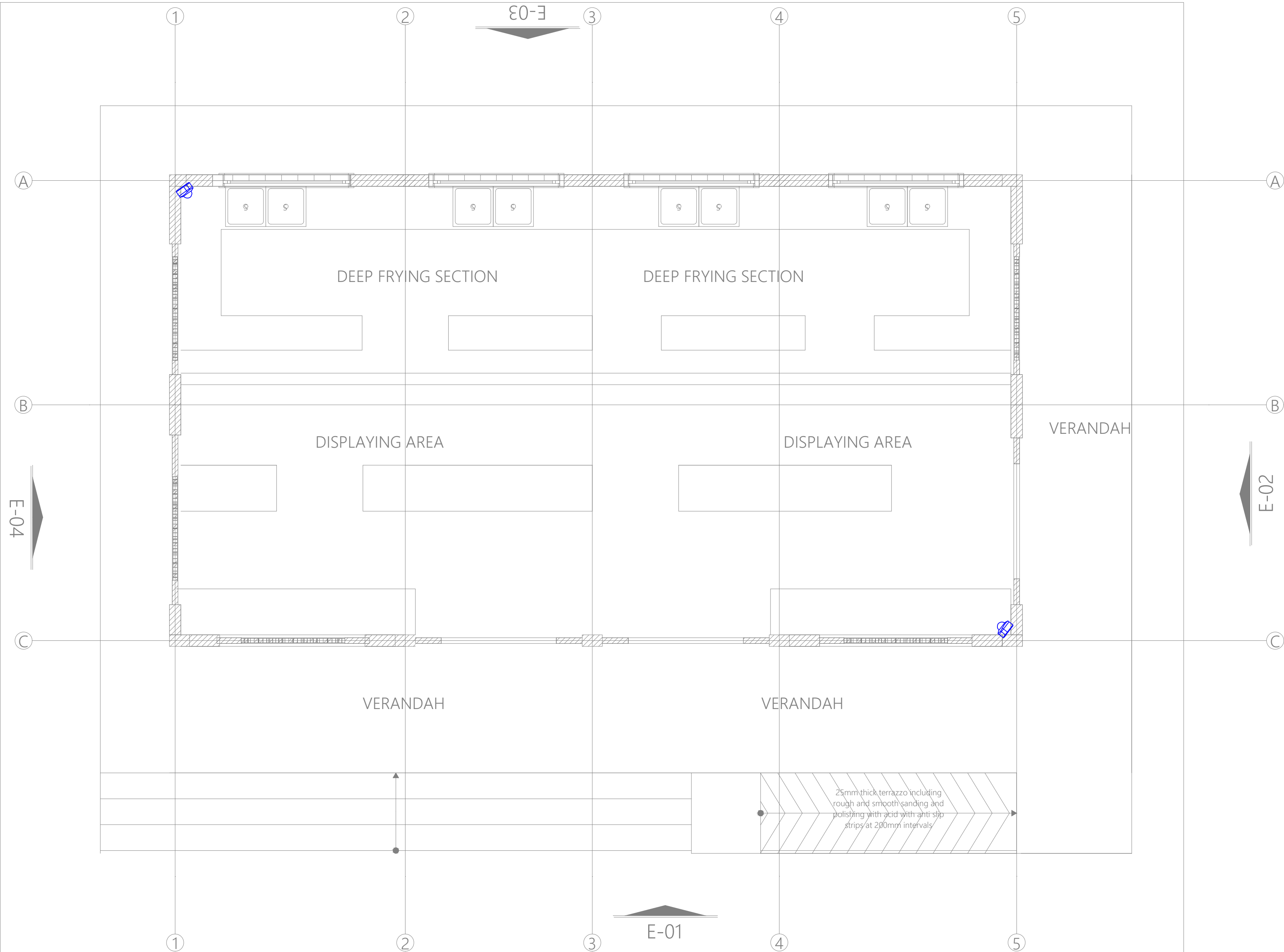
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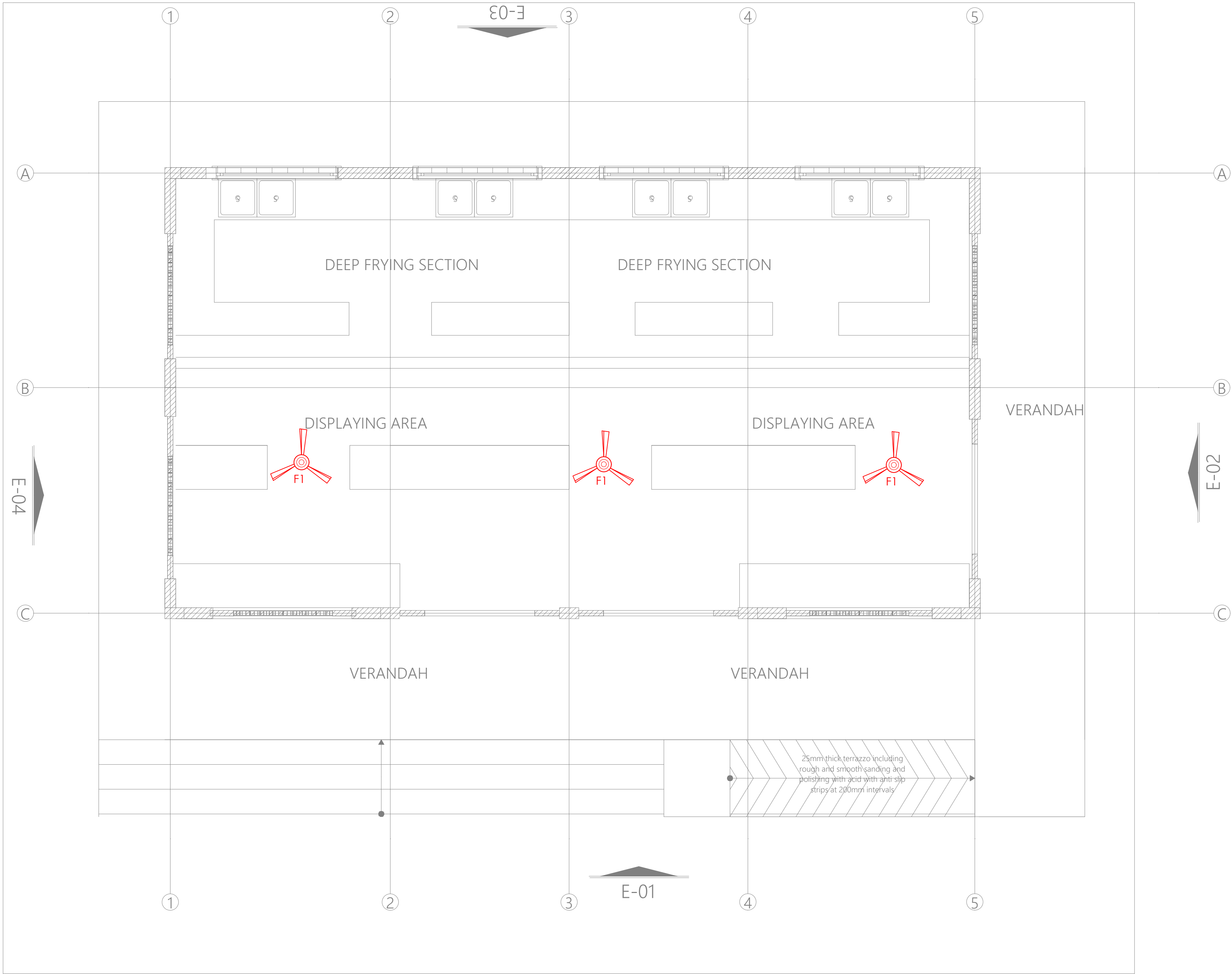
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Project no.: Date:

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

OPEN AIR MARKETS  
GROUND FLOOR FANS  
LAYOUT

Dwg. No. 10- 003E- 015

Scale: NTS

Drawn by  Chek'd By

Project no.: 10 Date: 14.01.2024





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PROJECT TITLE:

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LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:  

DRAWING TITLE:

FISH BANDA GROUND  
FLOOR LIGHTING LAYOUT

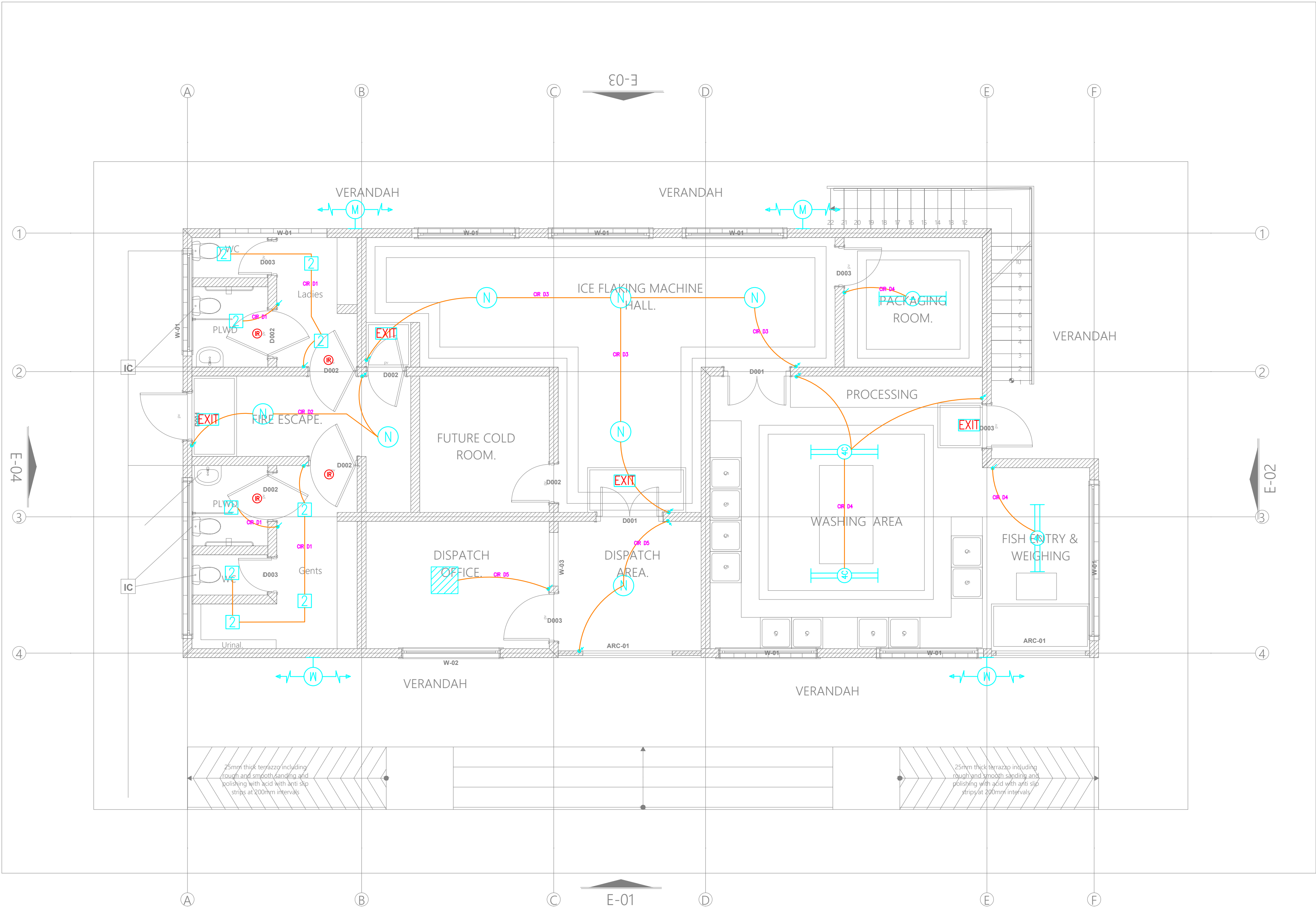
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PROJECT TITLE:

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LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

DRAWING TITLE:

FISH BANDA GROUND  
FLOOR POWER LAYOUT

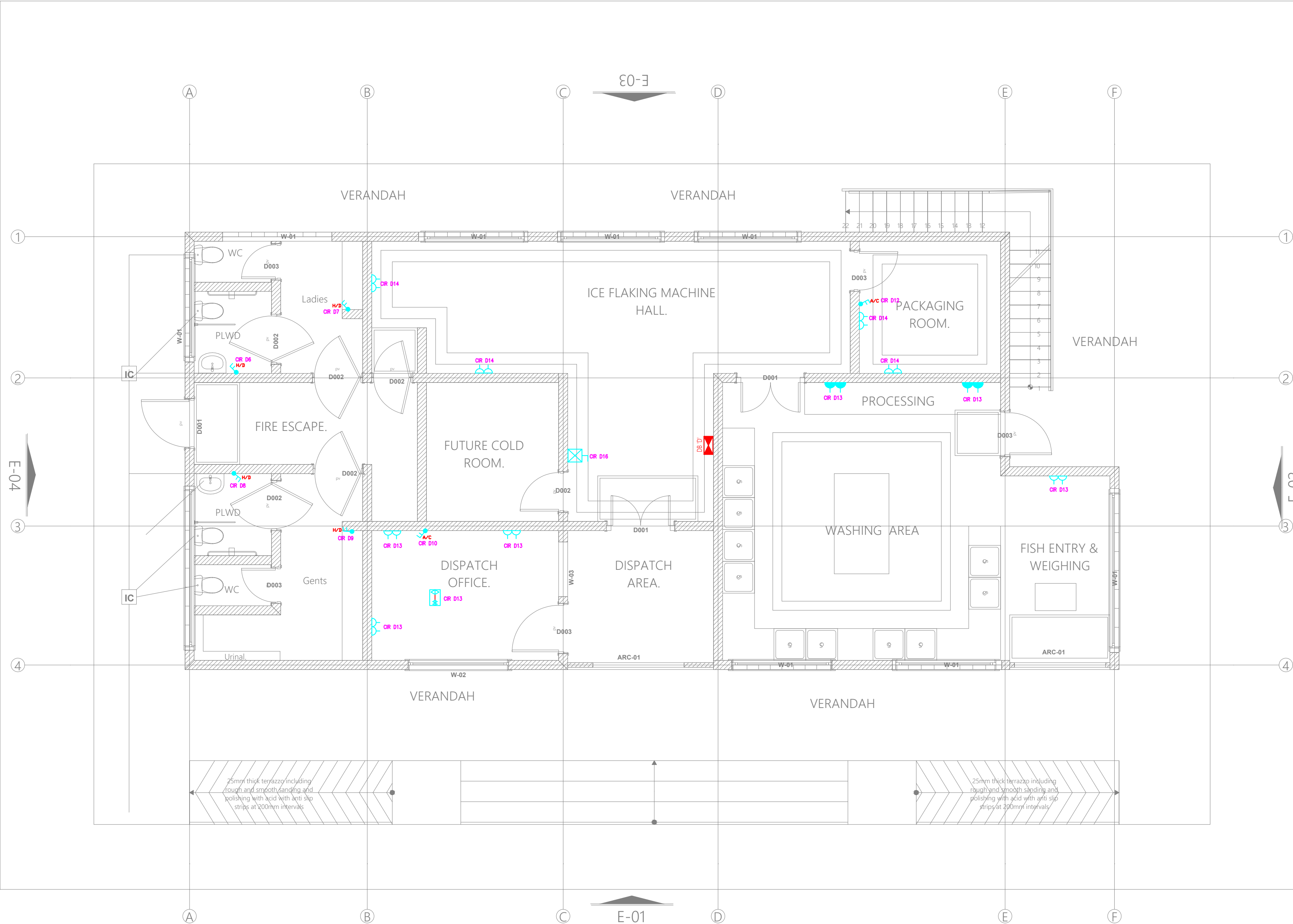
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Project no.: \_\_\_\_\_ Date: \_\_\_\_\_

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:  

DRAWING TITLE:

FISH BANDA GROUND  
FLOOR FIRE ALARM  
LAYOUT

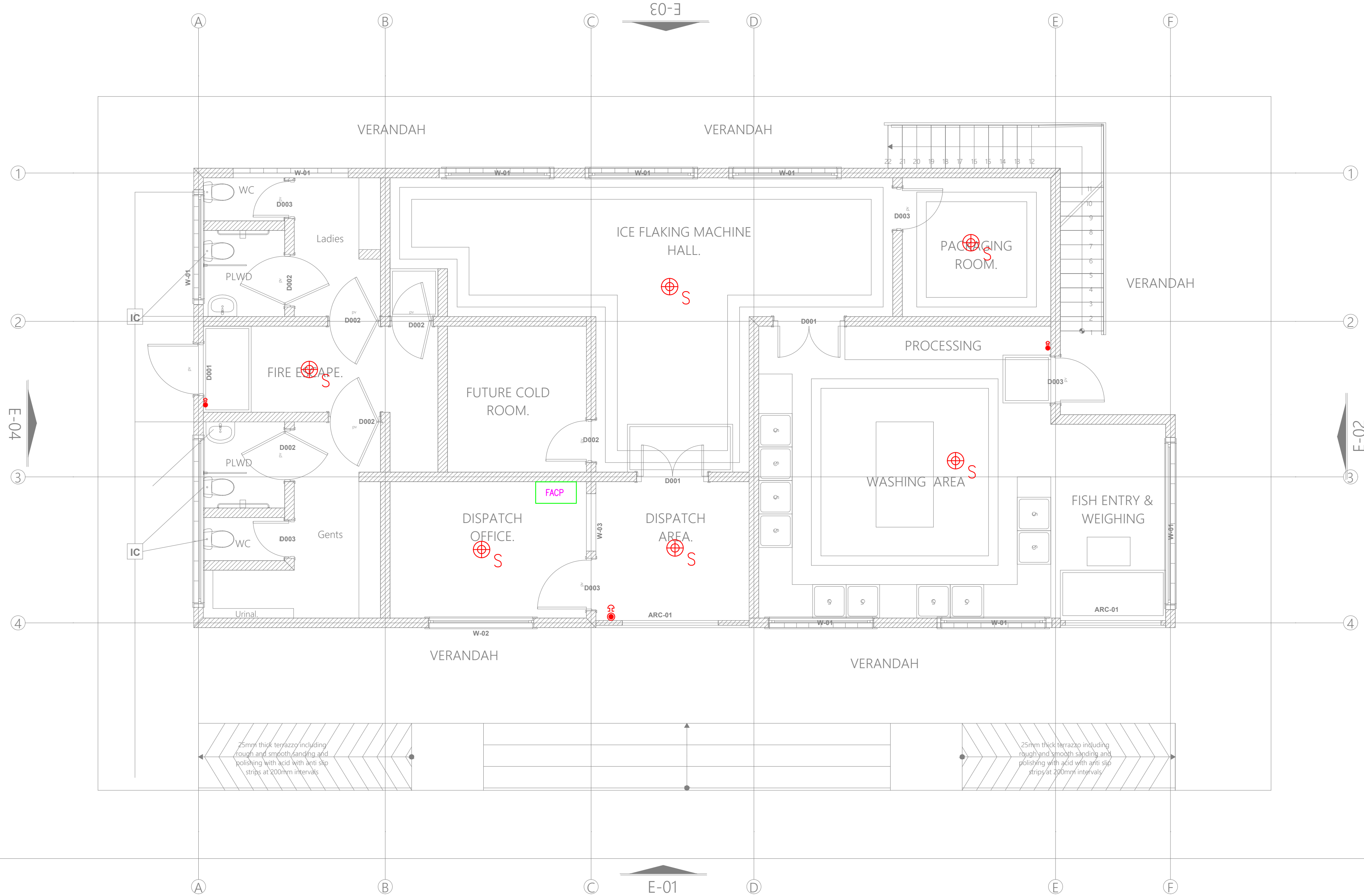
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

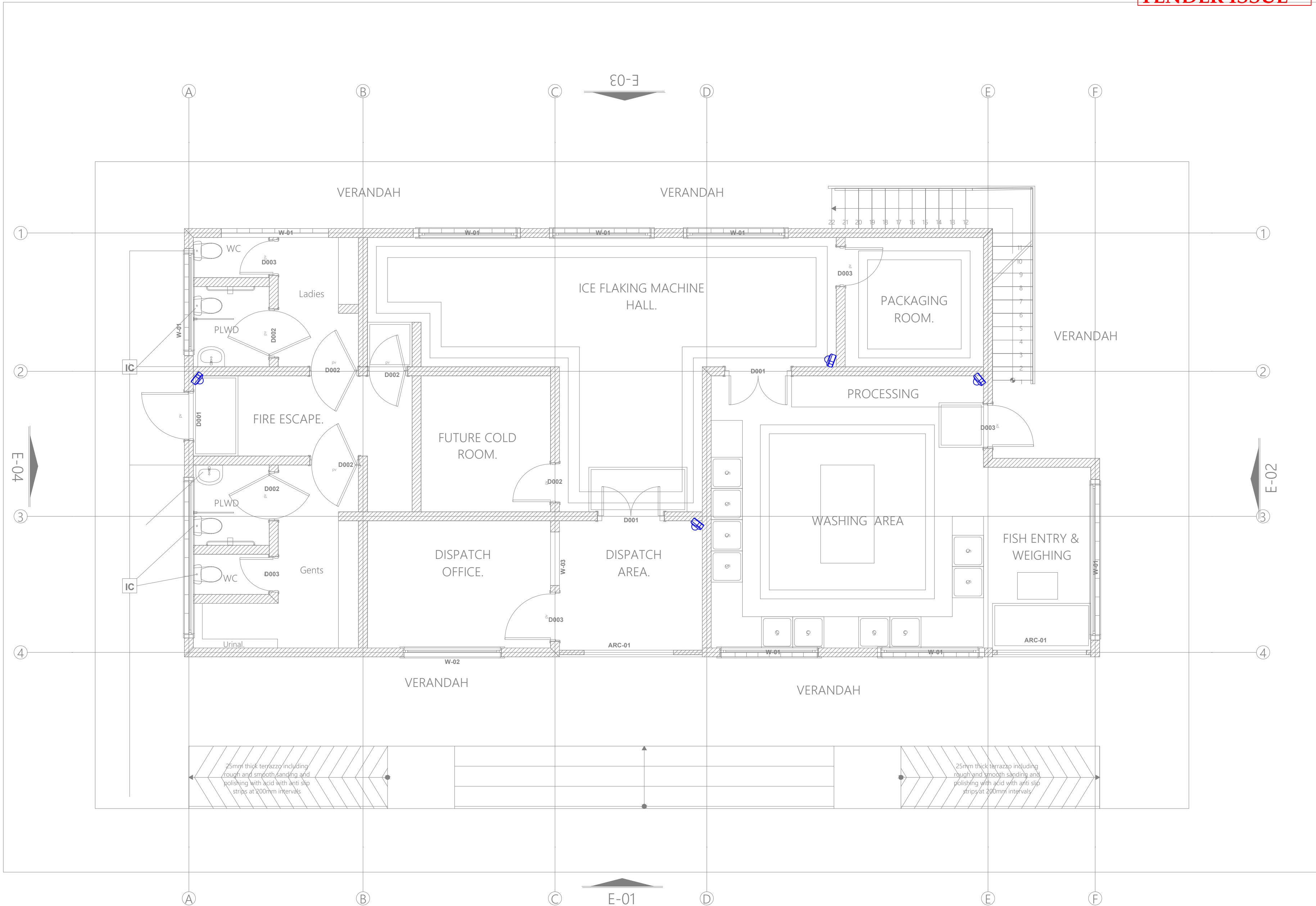
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DRAWING TITLE:

FISH BANDA GROUND  
FLOOR CCTV LAYOUT

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| Scale:       | NTS           |
| Drawn by     | Chek'd By     |
| Project no.: | Date:         |
| 10           | 14.01.2024    |



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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

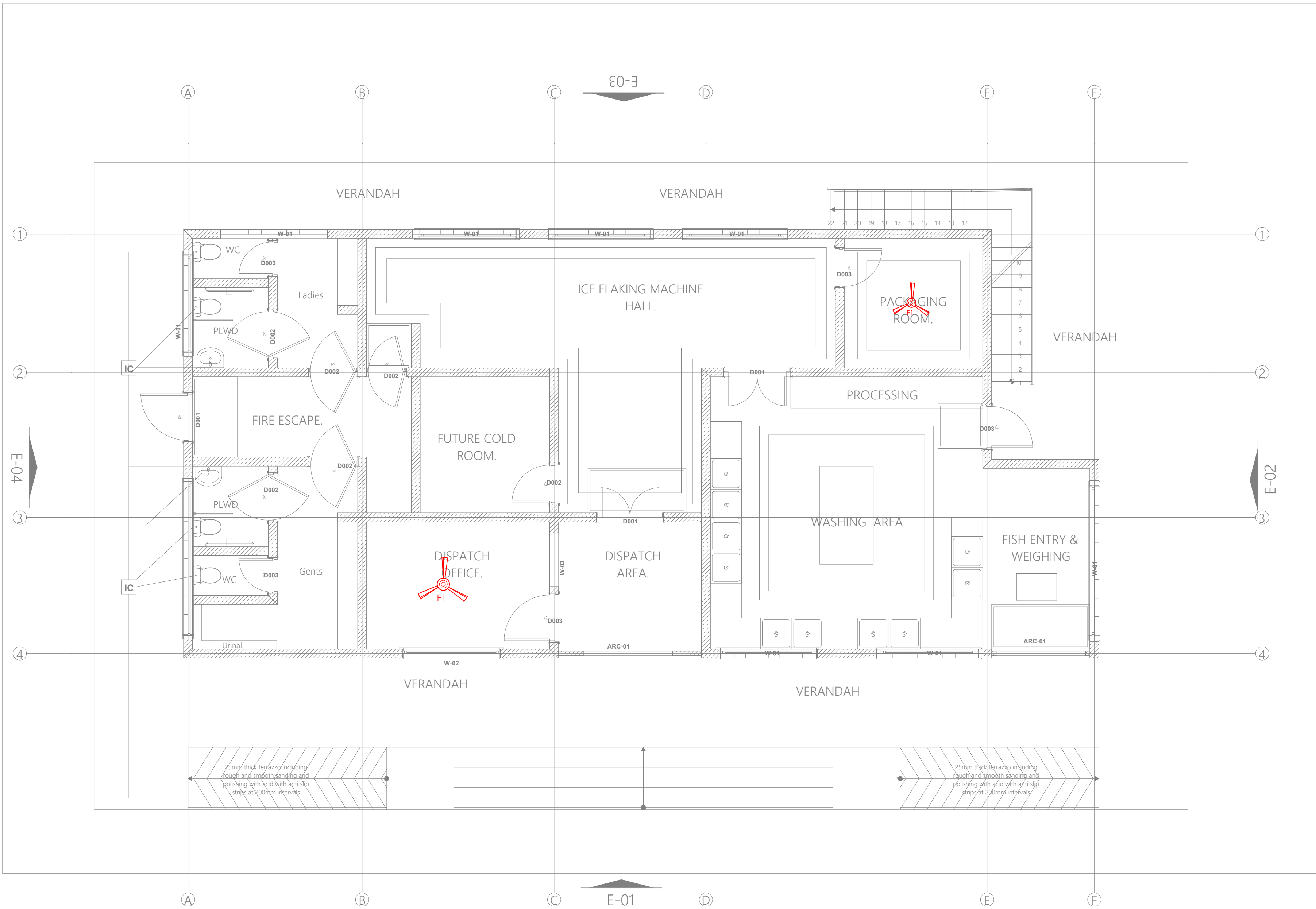
FISH BANDA GROUND  
FLOOR FANS LAYOUT

Dwg. No. 10- 003E- 020

Scale: NTS

Drawn by  Chek'd By

Project no.: 10  
Date: 14.01.2024



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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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| Sign: |  |
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DRAWING TITLE:

FISH GEAR MENDING  
GROUND FLOOR LIGHTING  
LAYOUT

Dwg. No. 10- 003E- 021

Scale: NTS

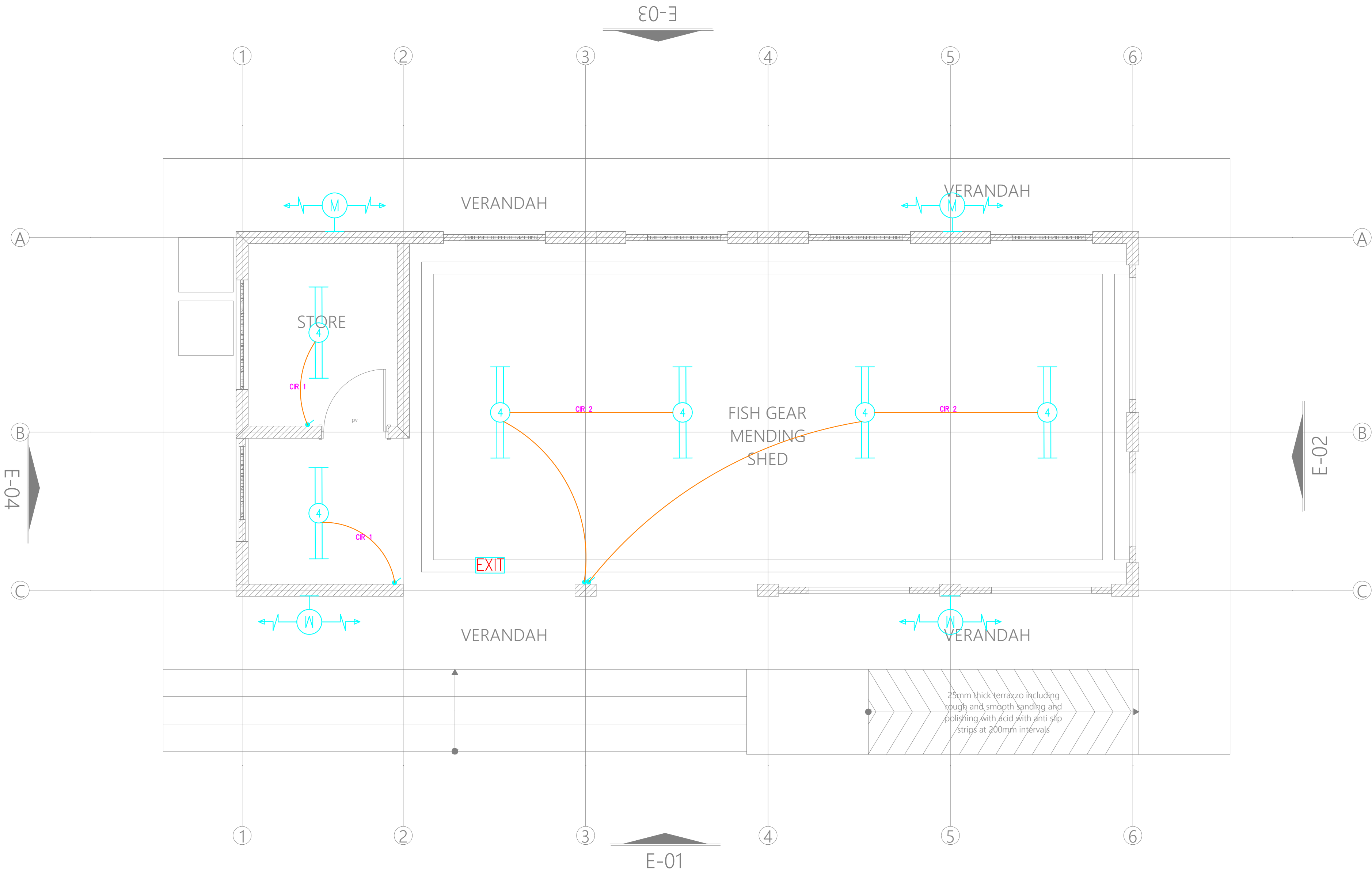
Drawn by Chek'd By

Project no.:

10

Date:

14.01.2024





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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

FISH GEAR MENDING  
GROUND FLOOR POWER  
LAYOUT

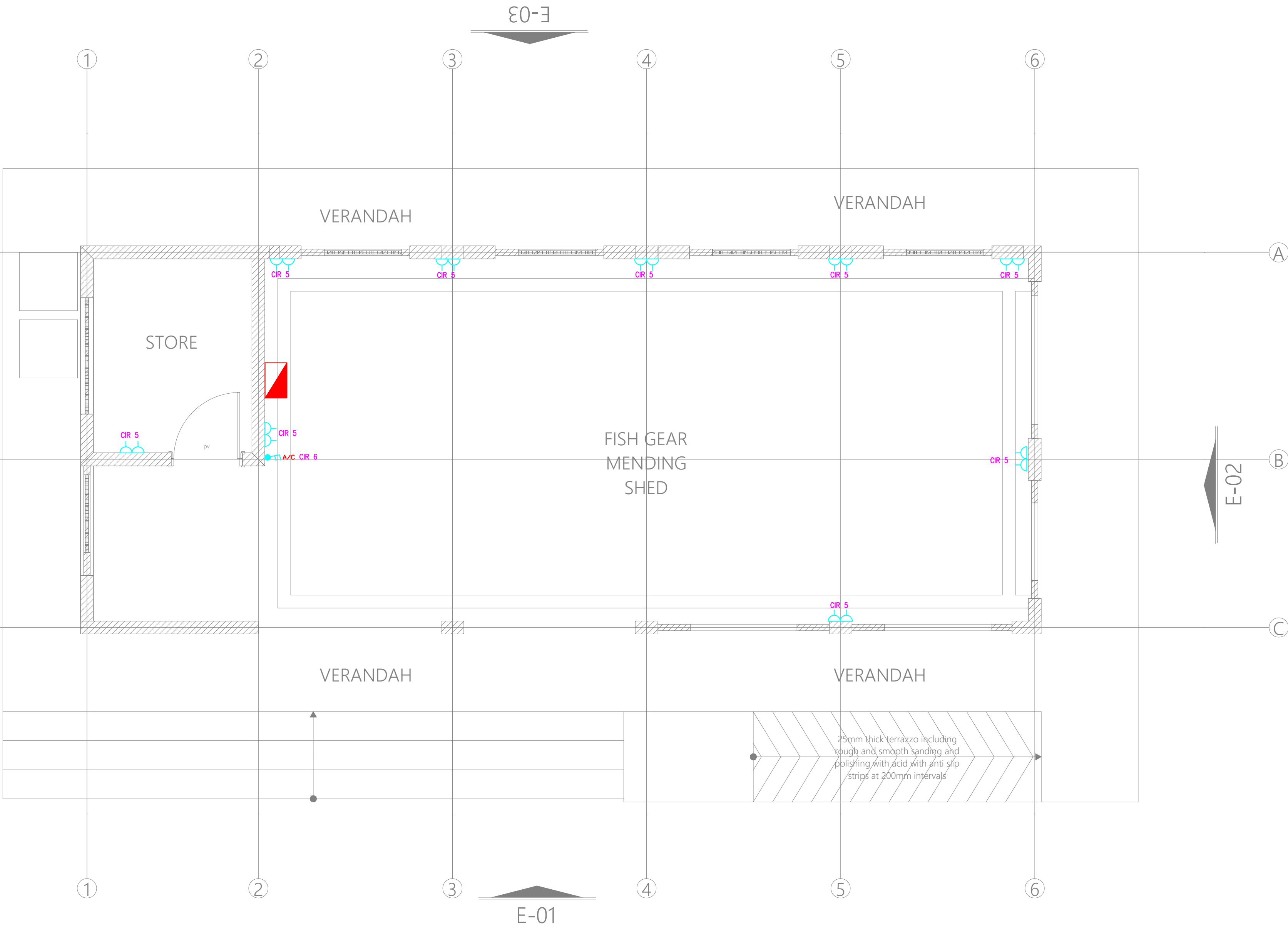
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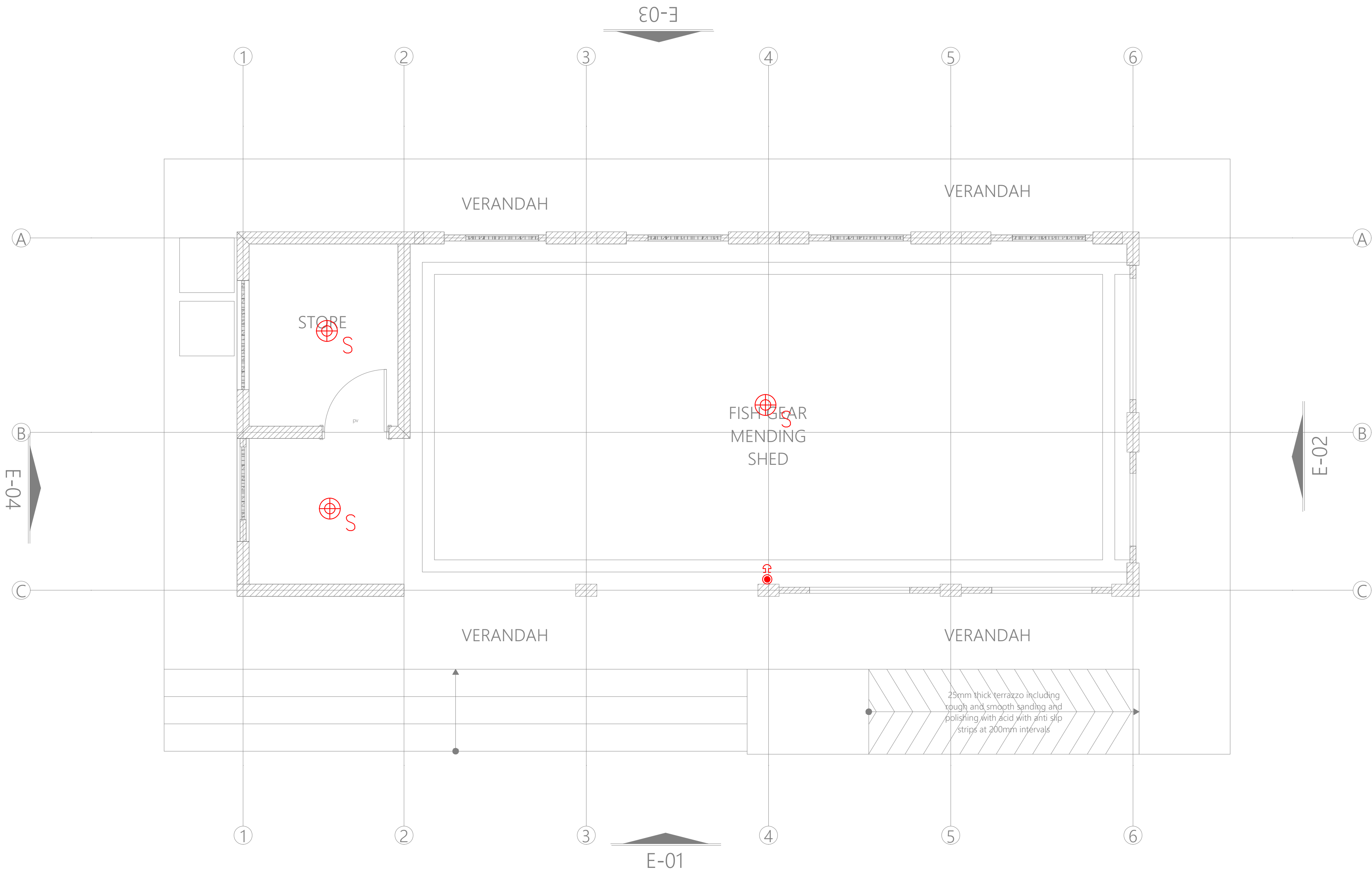
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Project no.: Date:

10 14.01.2024



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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

FISH GEAR MENDING  
GROUND FLOOR FIRE  
ALARM LAYOUT

Dwg. No. 10- 003E- 023

Scale: NTS

Drawn by  Chek'd By

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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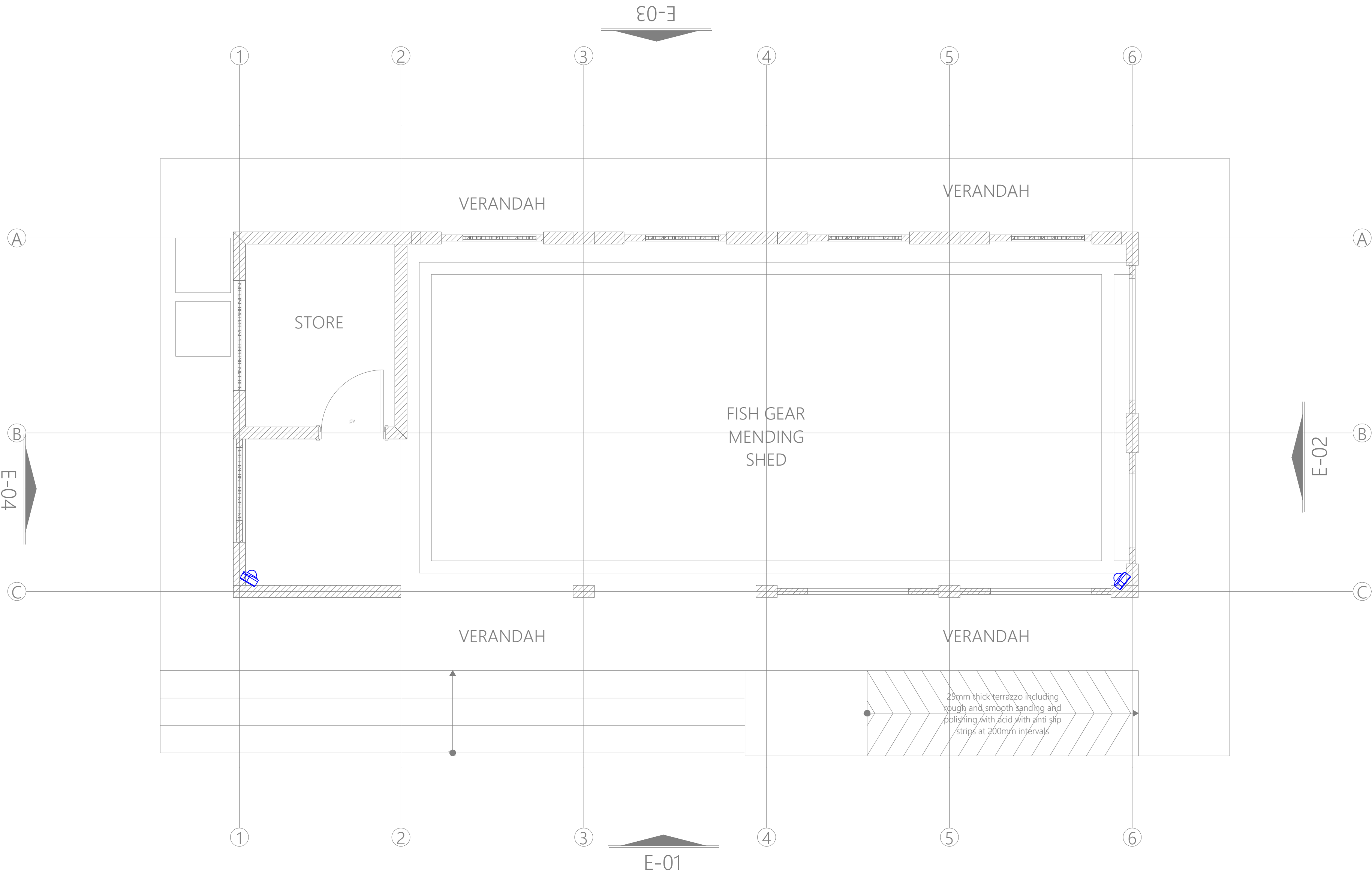
FISH GEAR MENDING  
GROUND FLOOR CCTV  
LAYOUT

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| 10           | 14.01.2024 |





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PROJECT TITLE:

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OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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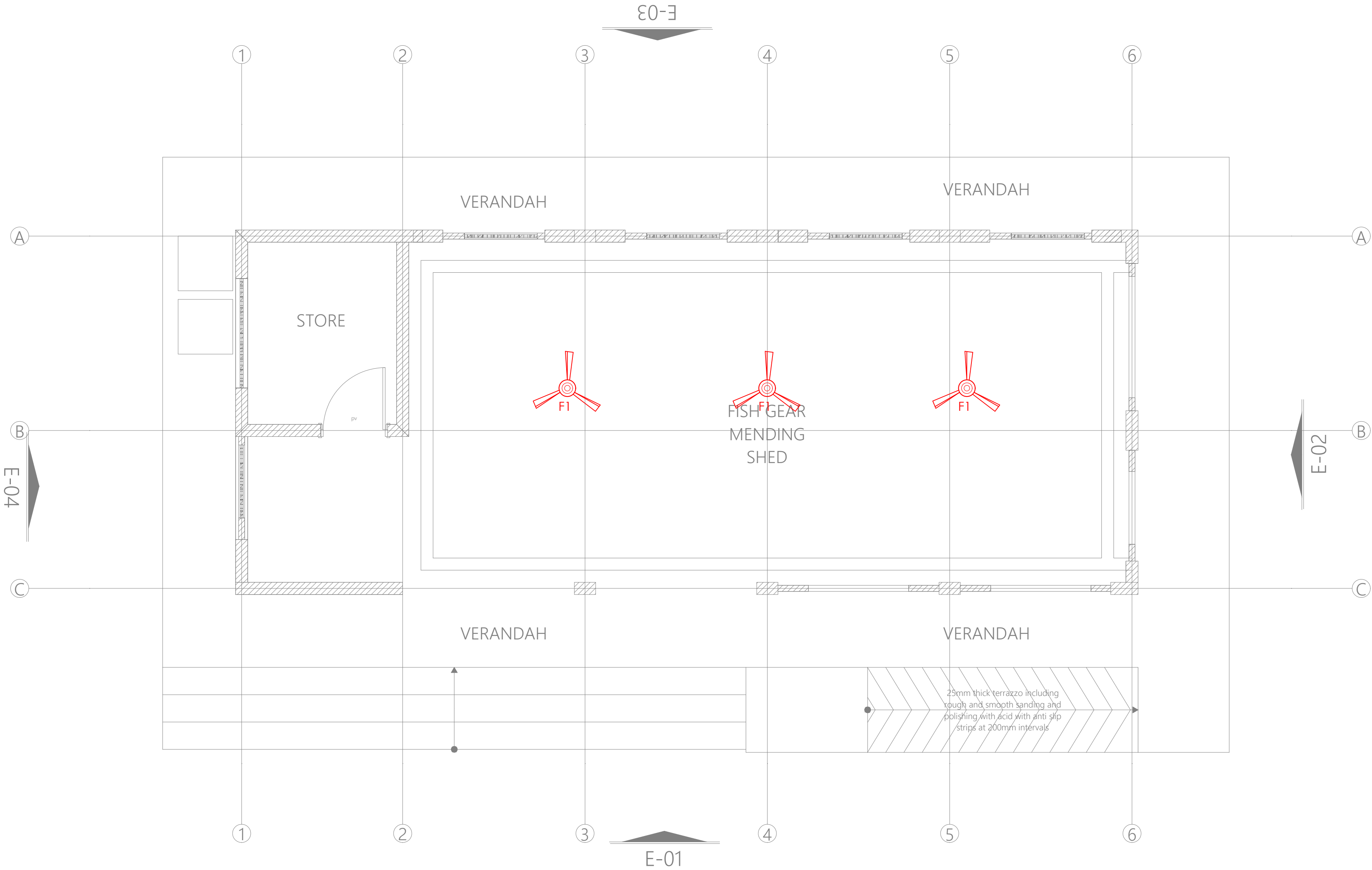
FISH GEAR MENDING  
GROUND FLOOR FANS  
LAYOUT

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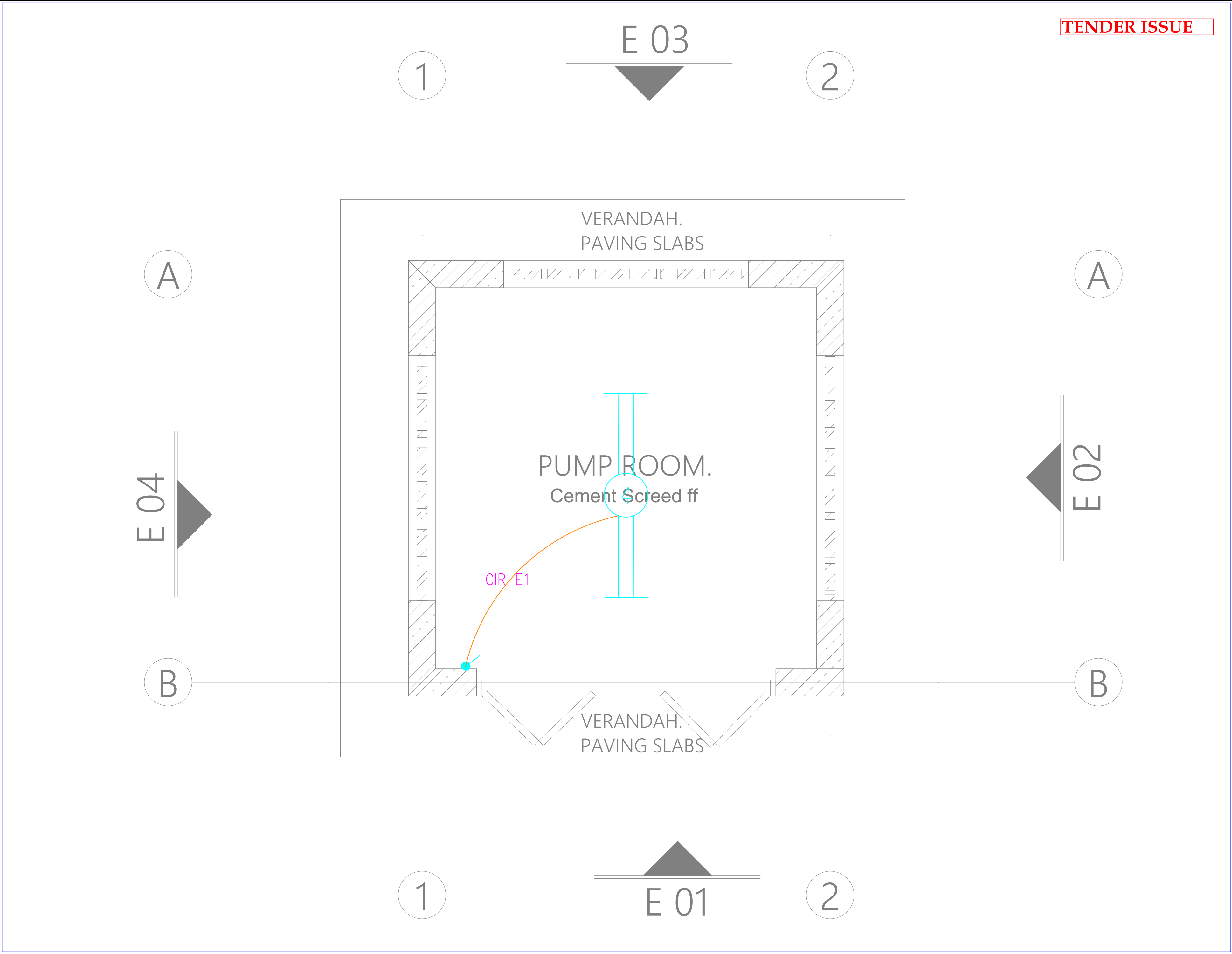
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

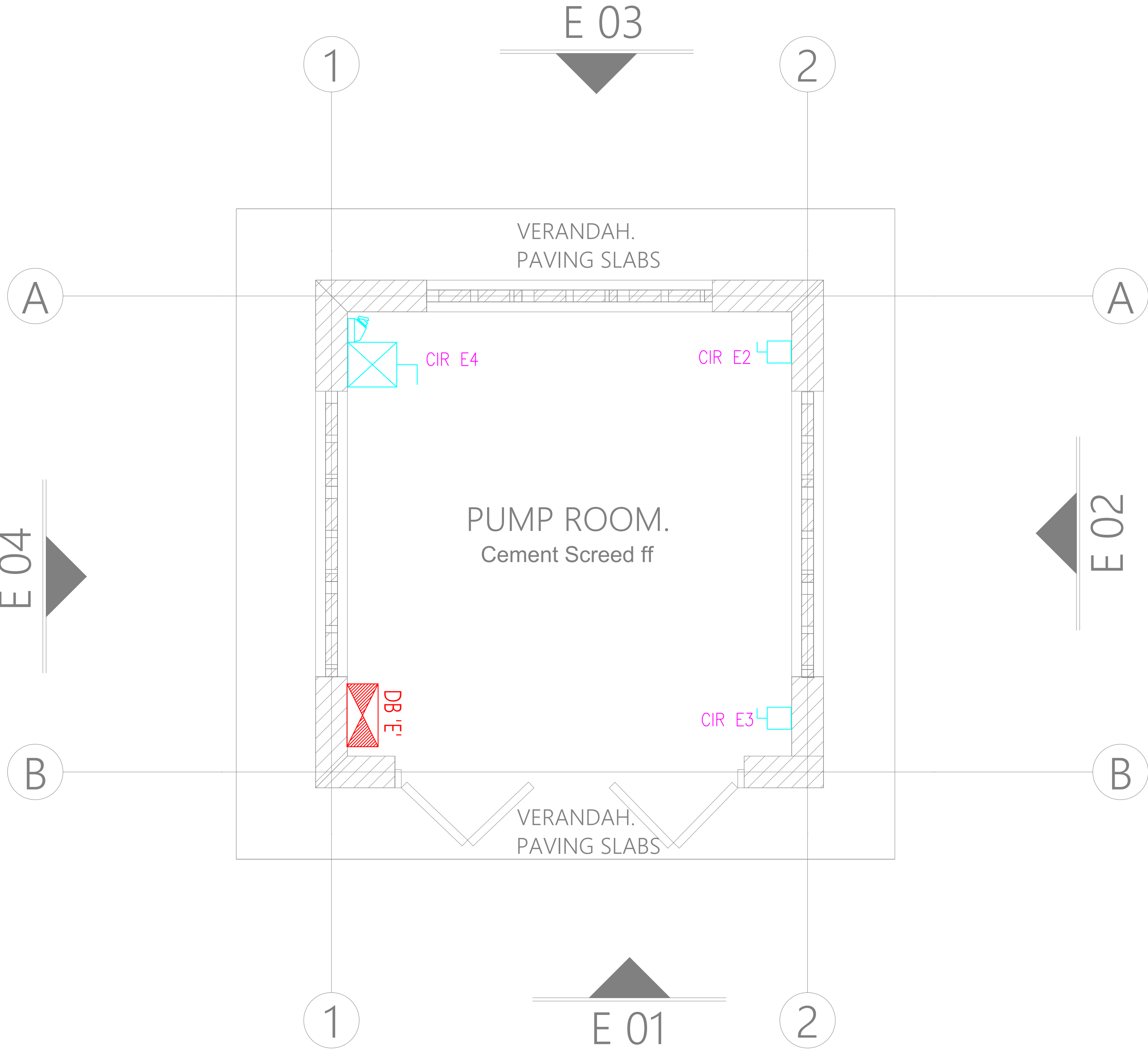
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DRAWING TITLE:

PUMP ROOM GROUND  
FLOOR LIGHTING LAYOUT

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

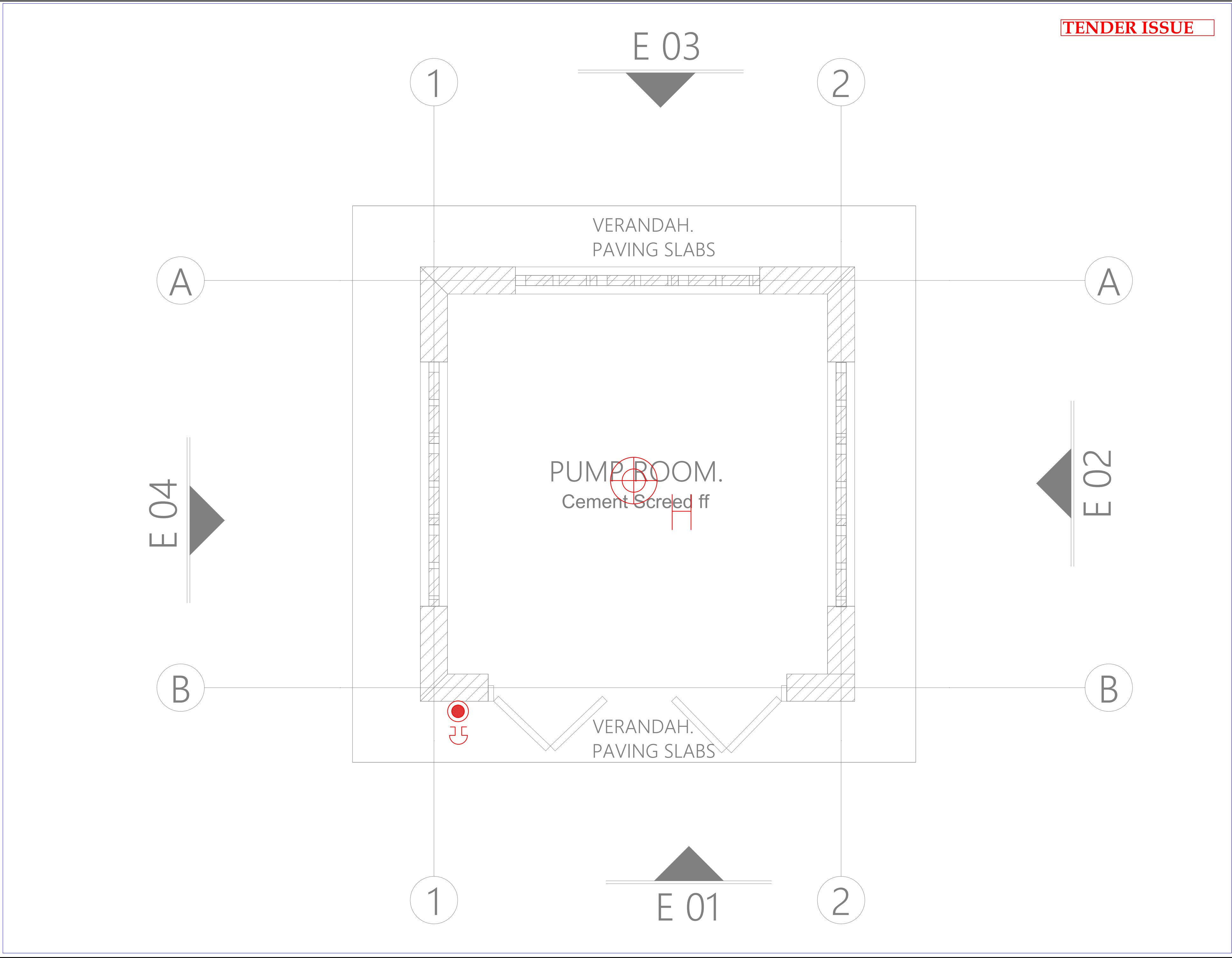
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DRAWING TITLE:


PUMP ROOM GROUND  
FLOOR POWER LAYOUT

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| Drawn by     |               | Chek'd By |  |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH LANDING SITES/MARKETS FISHERIES OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES, AQUACULTURE & THE BLUE ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

PUMP ROOM SCHEMATIC LAYOUT

Dwg. No.

10- 003E- 028

Scale:

NTS

Drawn by

Chek'd By

Project no.:

10

Date:

14.01.2024

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

FISH BANDA FIRST FLOOR  
LIGHTING LAYOUT

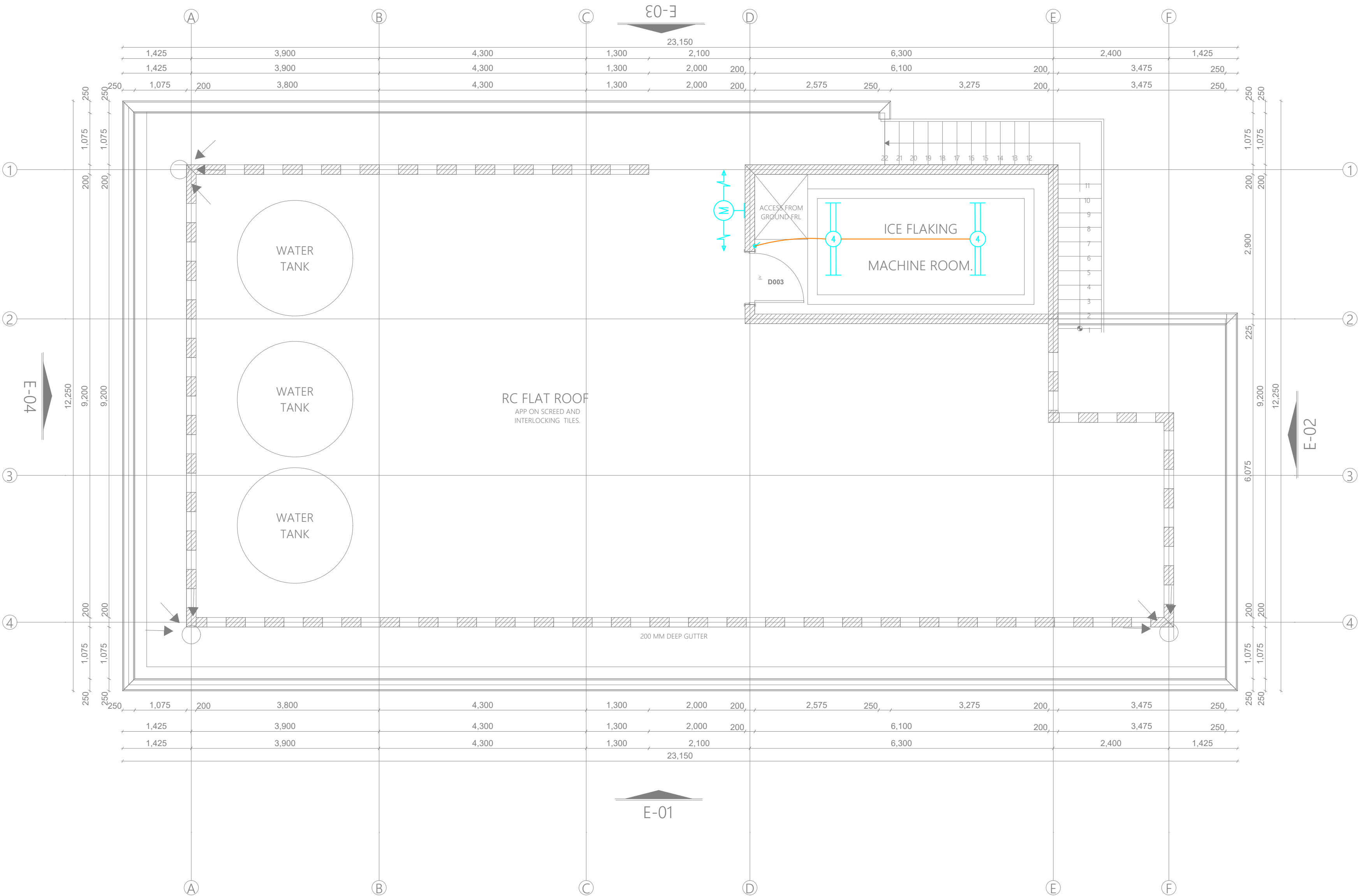
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Scale: NTS

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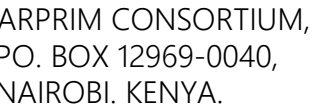
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## PROPOSED CONSTRUCTION OF FISH LANDING SITES/MARKETS FISHERIES OFFICES

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

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| Sign: |  |
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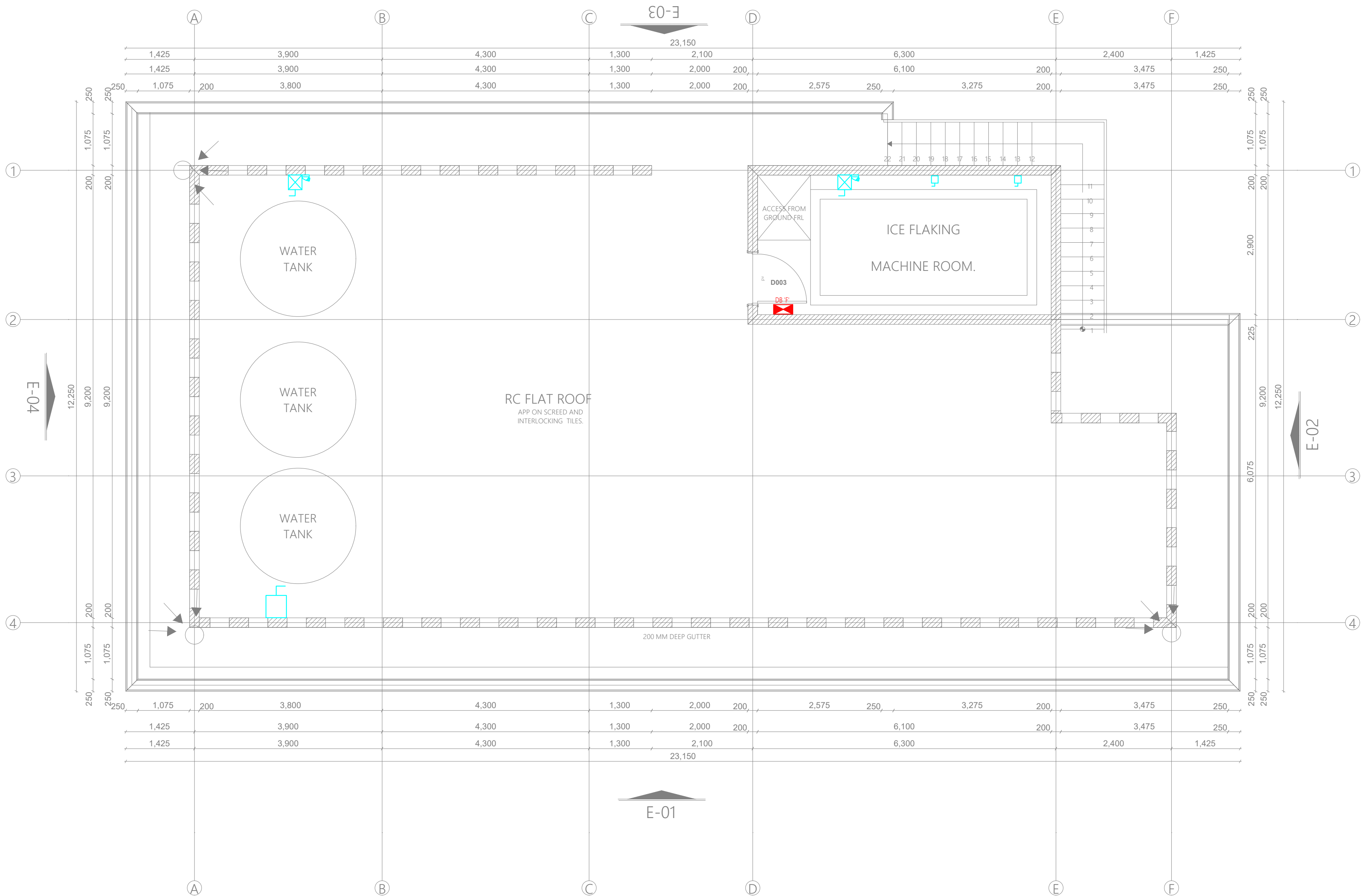
## FISH BANDA FIRST FLOOR POWER LAYOUT

Dwg. No. **10- 003E- 030**

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| Scale: | NTS |
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| Drawn by |  | Chek'd By |  |
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| Project no.: | Date:      |
| 10           | 14.01.2024 |



## TENDER ISSUE

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ARPRIM CONSORTIUM,  
P.O. BOX 12969-0040,  
NAIROBI, KENYA.

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9. THE SETTING OUT OF SERVICES SHALL BE AGREED BETWEEN THE ARCHITECT AND THE CONTRACTOR.
10. THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.

## REVISIONS:

| REV. No. | Details of Revision |
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|          |                     |

**PROJECT TITLE:**

## PROPOSED CONSTRUCTION OF FISH LANDING SITES/MARKETS FISHERIES OFFICES

**CLIENT:**

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

**CLIENT'S SIGNATURE:**

Sign:

**DRAWING TITLE:**

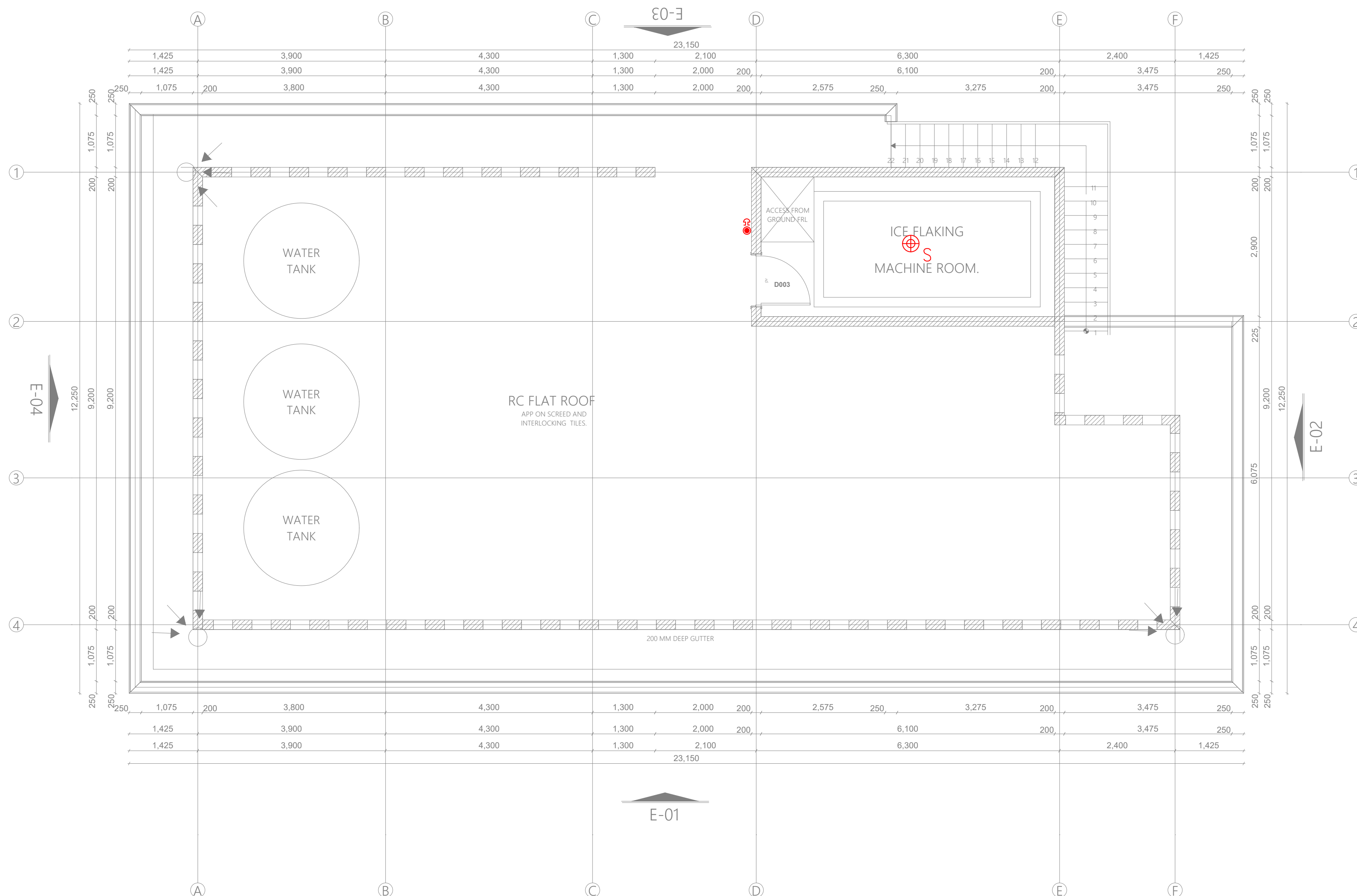
## FISH BANDA FIRST FLOOR FIRE ALARM LAYOUT

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| Dwg. No. | 10- 003E- 031 |
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| Scale: | NTS |
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| Drawn by |  | Chek'd By |
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|--------------|------------|
| Project no.: | Date:      |
| 10           | 14.01.2024 |







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NAIROBI. KENYA.

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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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| Sign: |  |
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DRAWING TITLE:

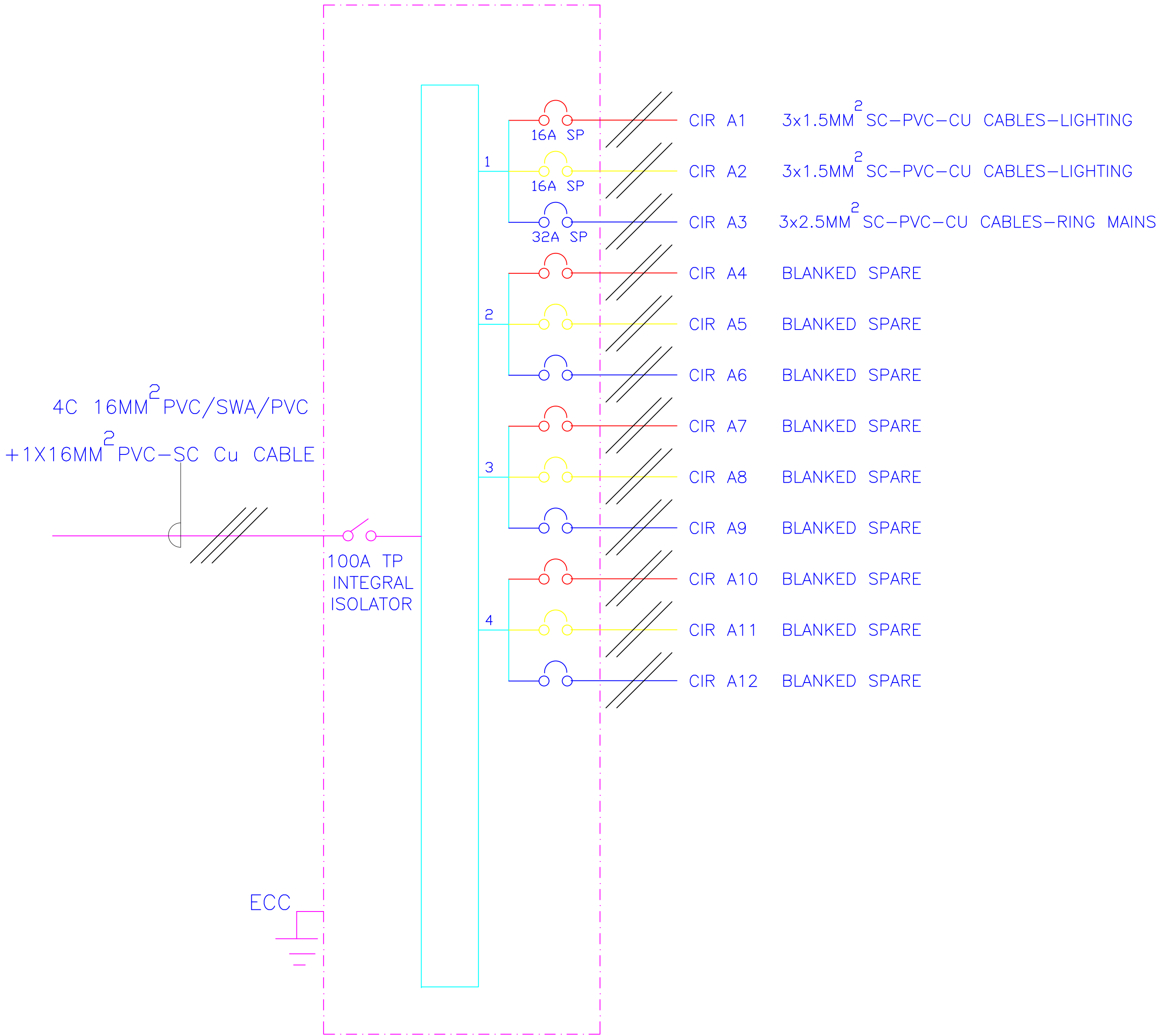
POWER HOUSE GROUND  
FLOOR POWER LAYOUT

Dwg. No. 10- 003E- 032

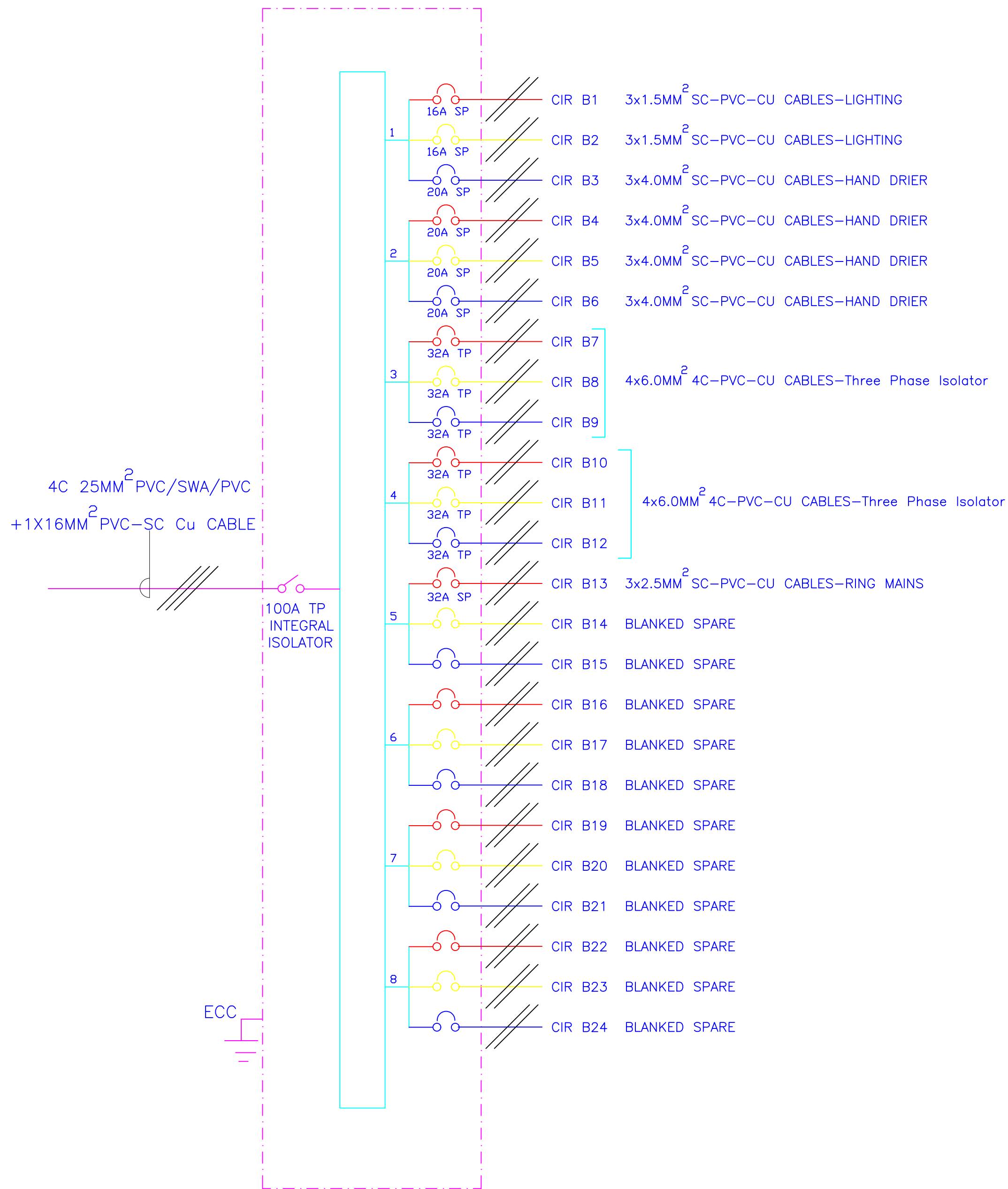
Scale: NTS

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| Drawn by |  | Chek'd By |  |
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|--------------|------------|
| Project no.: | Date:      |
| 10           | 14.01.2024 |



4– WAY 100A TPN DISTRIBUTION BOARD 'A' FOR  
RAW POWER DISTRIBUTION ON GROUND FLOOR



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



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PO. BOX 12969-0040,  
NAIROBI. KENYA.

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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

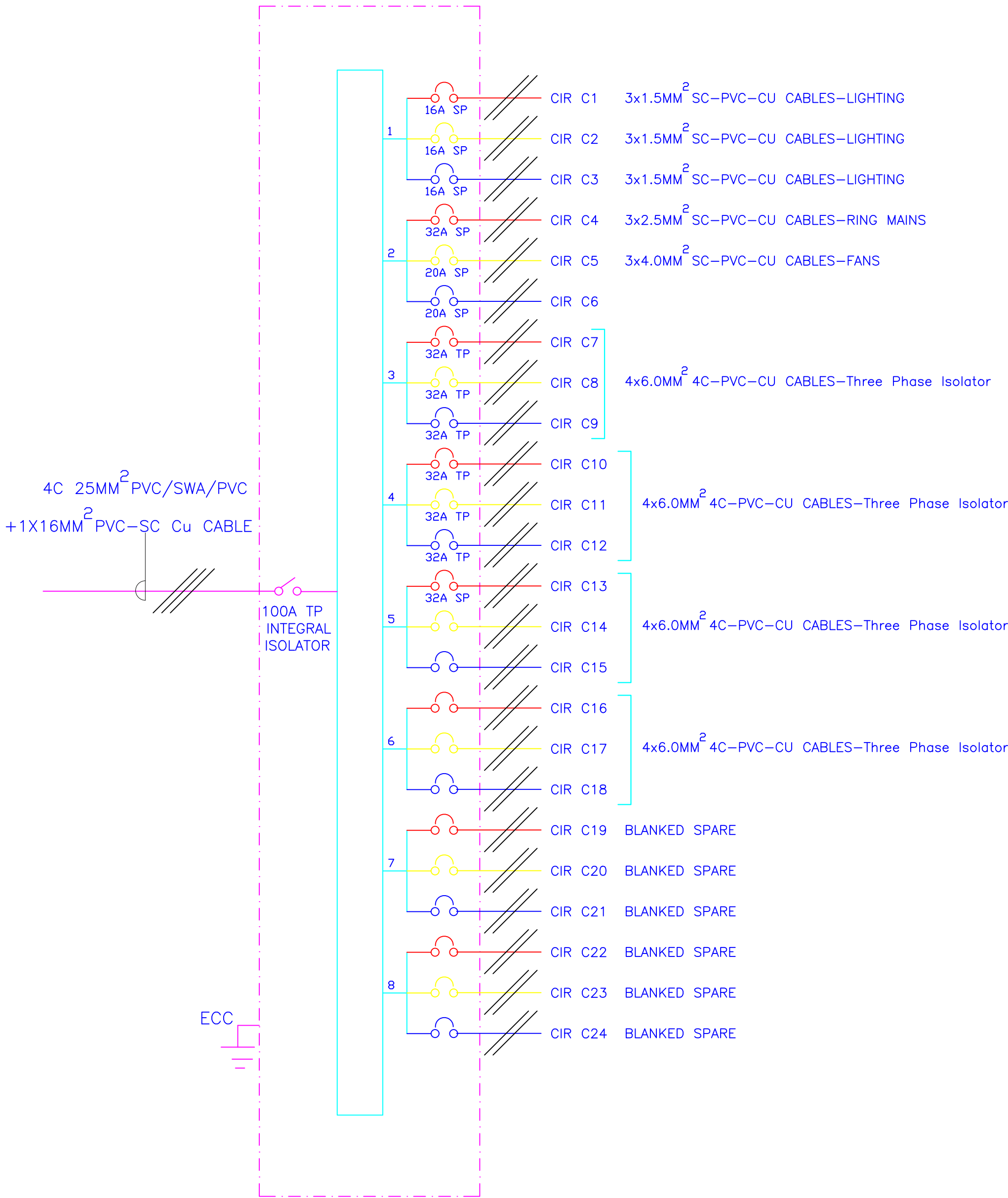
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| Sign: |  |
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DRAWING TITLE:

FISH GEAR STORE  
SCHEMATIC LAYOUT

|              |               |           |  |
|--------------|---------------|-----------|--|
| Dwg. No.     | 10- 003E- 033 |           |  |
| Scale:       | NTS           |           |  |
| Drawn by     |               | Chek'd By |  |
| Project no.: | Date:         |           |  |
| 10           | 14.01.2024    |           |  |





8- WAY 100A TPN DISTRIBUTION BOARD 'C' FOR  
RAW POWER DISTRIBUTION ON GROUND FLOOR



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PO. BOX 12969-0040,  
NAIROBI, KENYA.

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REVISIONS:

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

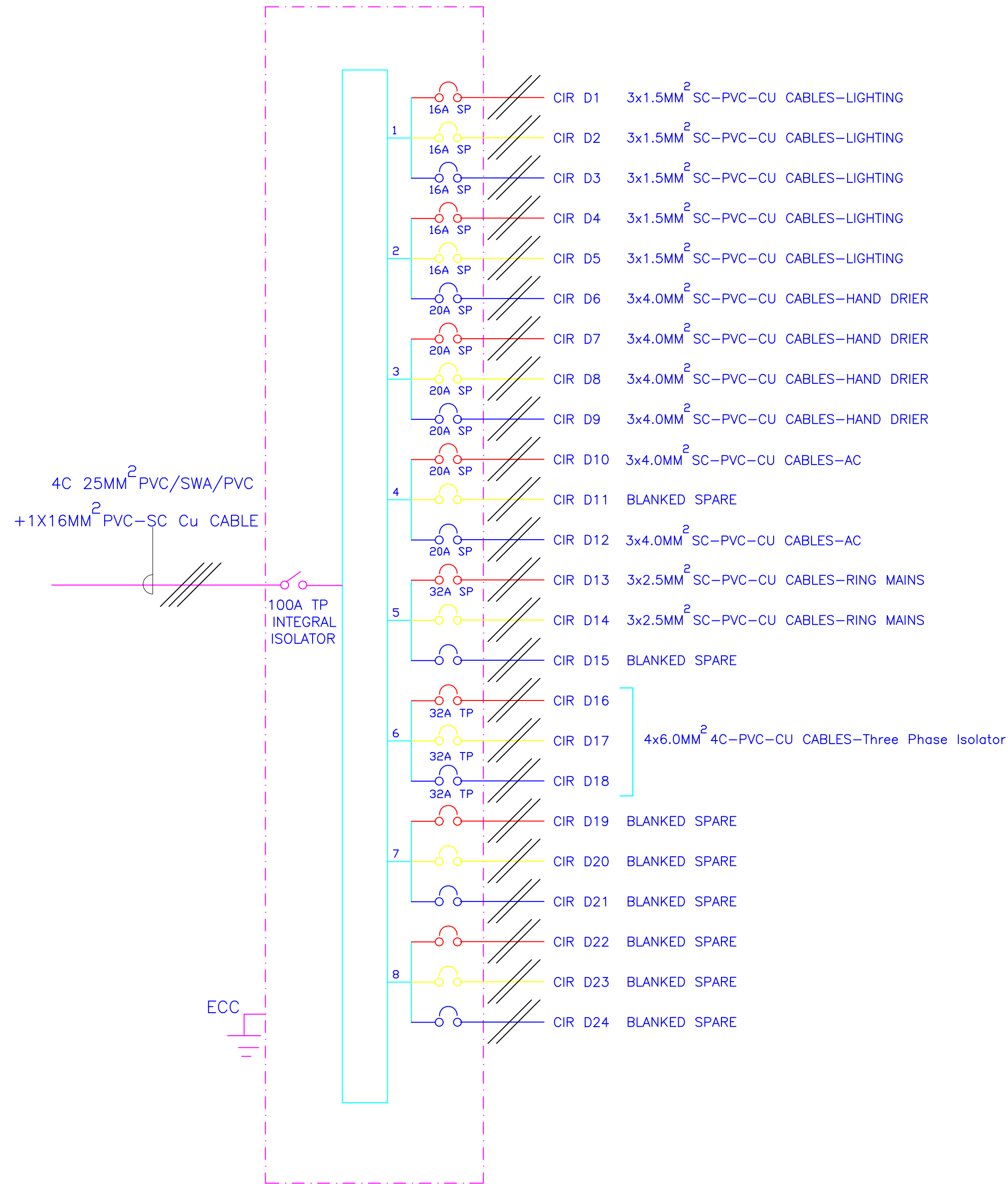
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DRAWING TITLE:

OPEN AIR MARKET  
SCHEMATIC LAYOUT

|              |               |
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| Dwg. No.     | 10- 003E- 034 |
| Scale:       | NTS           |
| Drawn by     | Chek'd By     |
| Project no.: | Date:         |
| 10           | 14.01.2024    |



8- WAY 100A TPN DISTRIBUTION BOARD 'D' FOR  
RAW POWER DISTRIBUTION ON GROUND FLOOR



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NAIROBI. KENYA.

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REVISIONS:

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

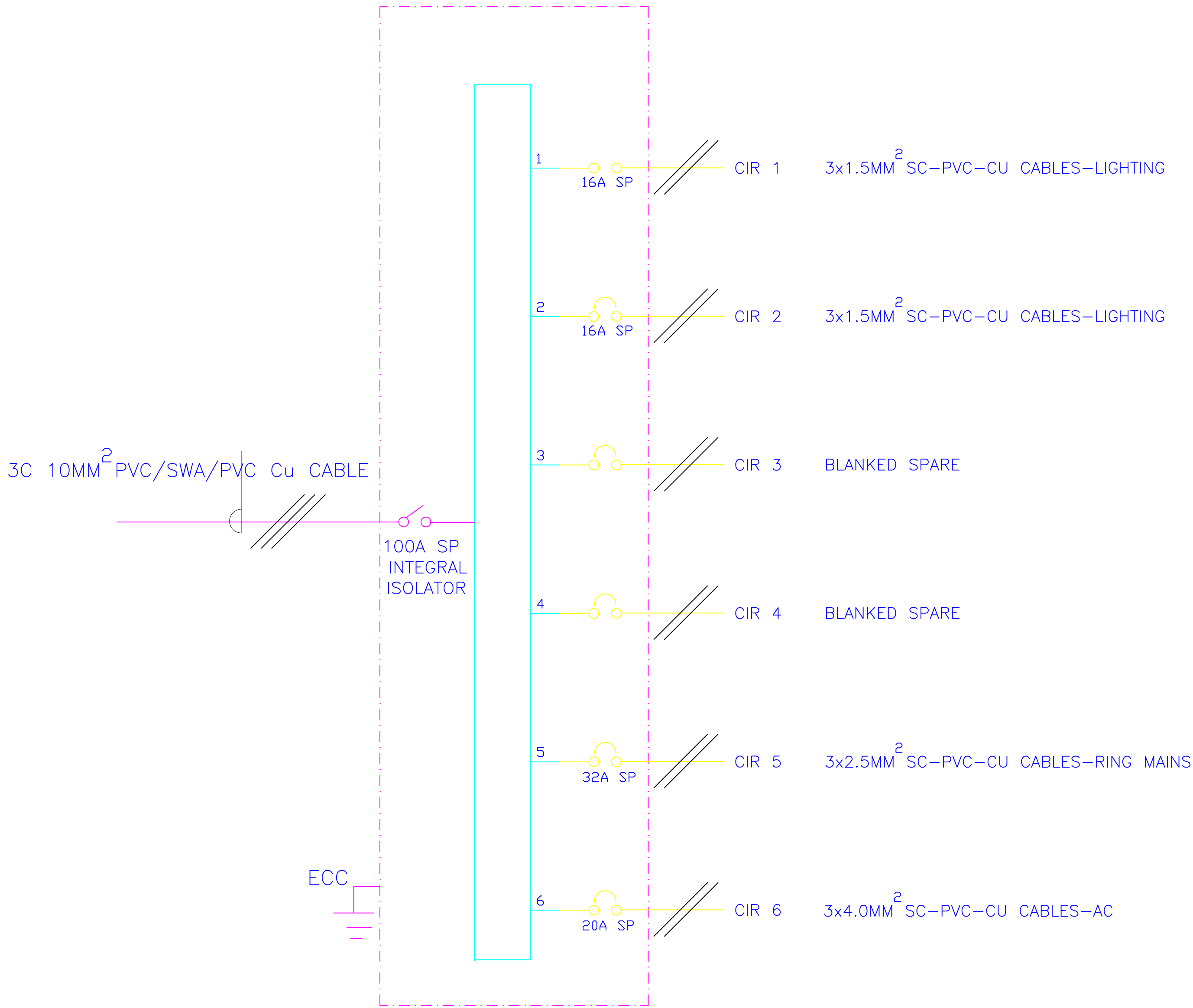
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DRAWING TITLE:

FISH BANDA SCHEMATIC  
LAYOUT

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| Dwg. No.     | 10- 003E- 035 |           |  |
| Scale:       | NTS           |           |  |
| Drawn by     |               | Chek'd By |  |
| Project no.: | Date:         |           |  |
| 10           | 14.01.2024    |           |  |





6- WAY 100A SPN CONSUMER UNIT FOR  
RAW POWER DISTRIBUTION ON GROUND FLOOR



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PO. BOX 12969-0040,  
NAIROBI. KENYA.

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REVISIONS:

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

FISH GEAR MENDING  
SCHEMATIC LAYOUT

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| Dwg. No.     | 10- 003E- 036 |
| Scale:       | NTS           |
| Drawn by     | Chek'd By     |
| Project no.: | Date:         |
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NAIROBI. KENYA.

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

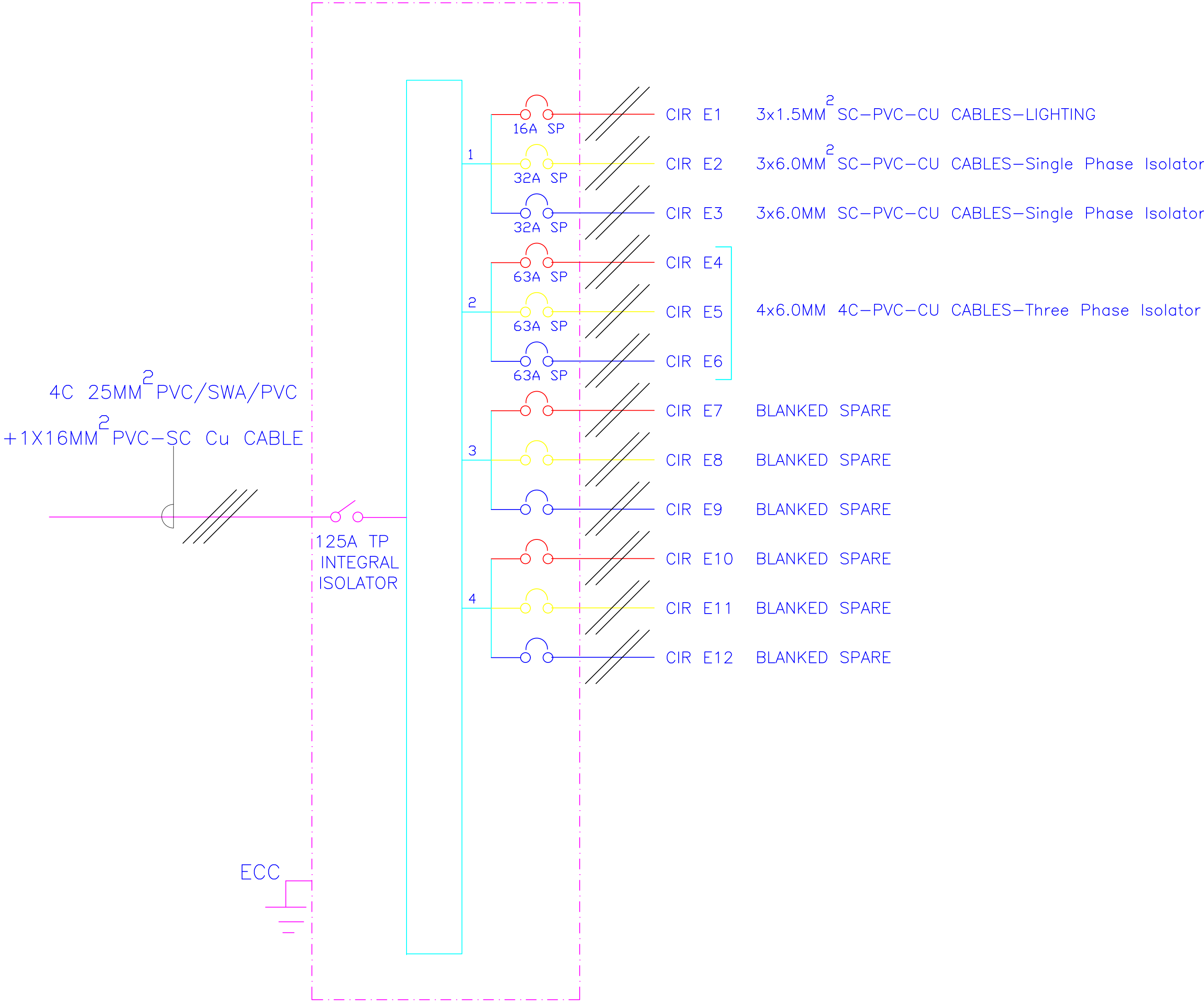
CLIENT'S SIGNATURE:

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DRAWING TITLE:

PUMP ROOM GROUND  
SCHEMATIC LAYOUT

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| Dwg. No.     | 10- 003E- 037 |           |  |
| Scale:       | NTS           |           |  |
| Drawn by     |               | Chek'd By |  |
| Project no.: | Date:         |           |  |
| 10           | 14.01.2024    |           |  |



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



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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF  
KILIFI CENTRAL FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

**DRAWING TITLE:**  
**SITE PLAN ELECTRICAL  
LAYOUT**

Dwg. No. **10-003E-038**

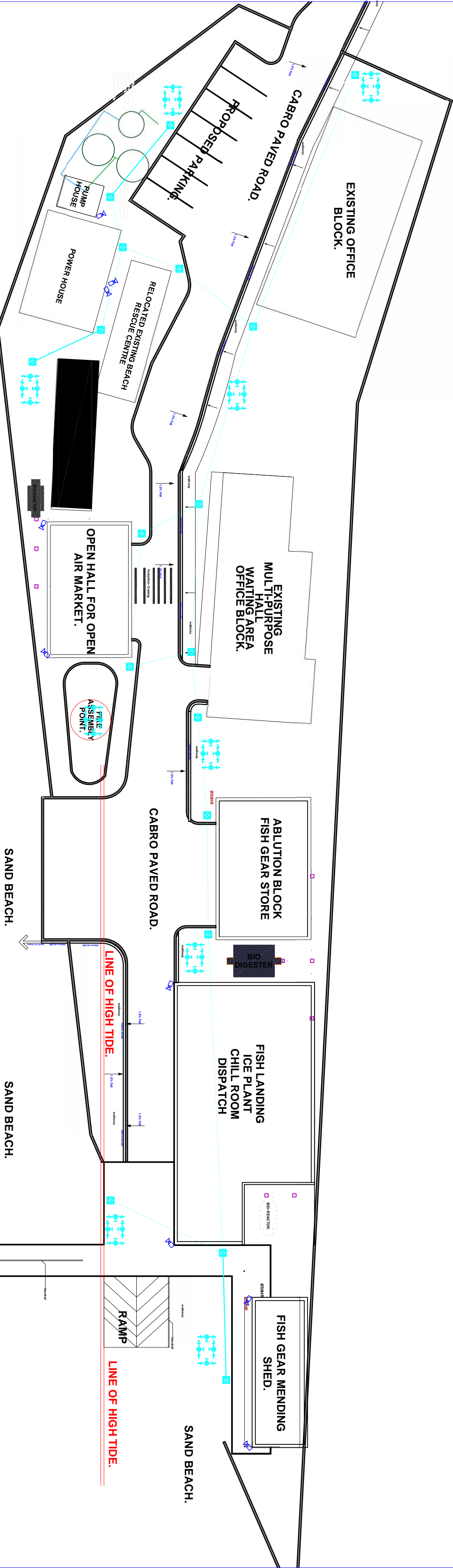
Scale: NTS

Drawn by \_\_\_\_\_ Check'd By \_\_\_\_\_

Project no.: \_\_\_\_\_ Date: 09/01/2023

10

- LEGEND**
- 1 No. 150mm dia  
HGPVC ducts below slab/ ground
  - 600X600X700mm Deep  
Manhole



SITE PLAN  
ELECTRICAL LAYOUT



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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF  
KILIFI CENTRAL FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

**STREET LIGHT DETAIL**

Dwg. No. **10- 003E- 39**

Scale: NTS

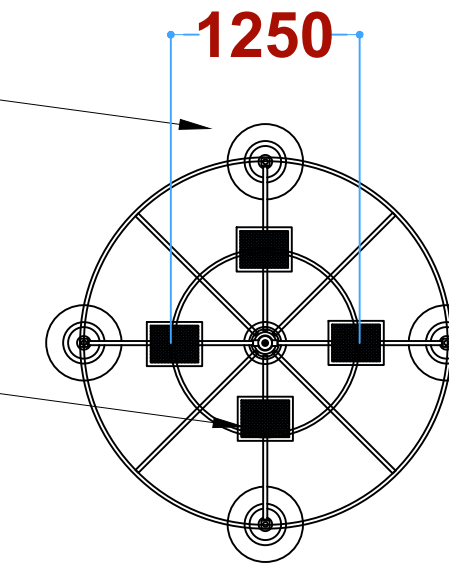
Drawn by  Chek'd By

Project no.:  Date:

10 09/01/2023

Solar Panel for the Flood Light

Solar LED Flood Light  
Rating (W): 100W



Solar LED Flood Light  
Rating (W): 100W

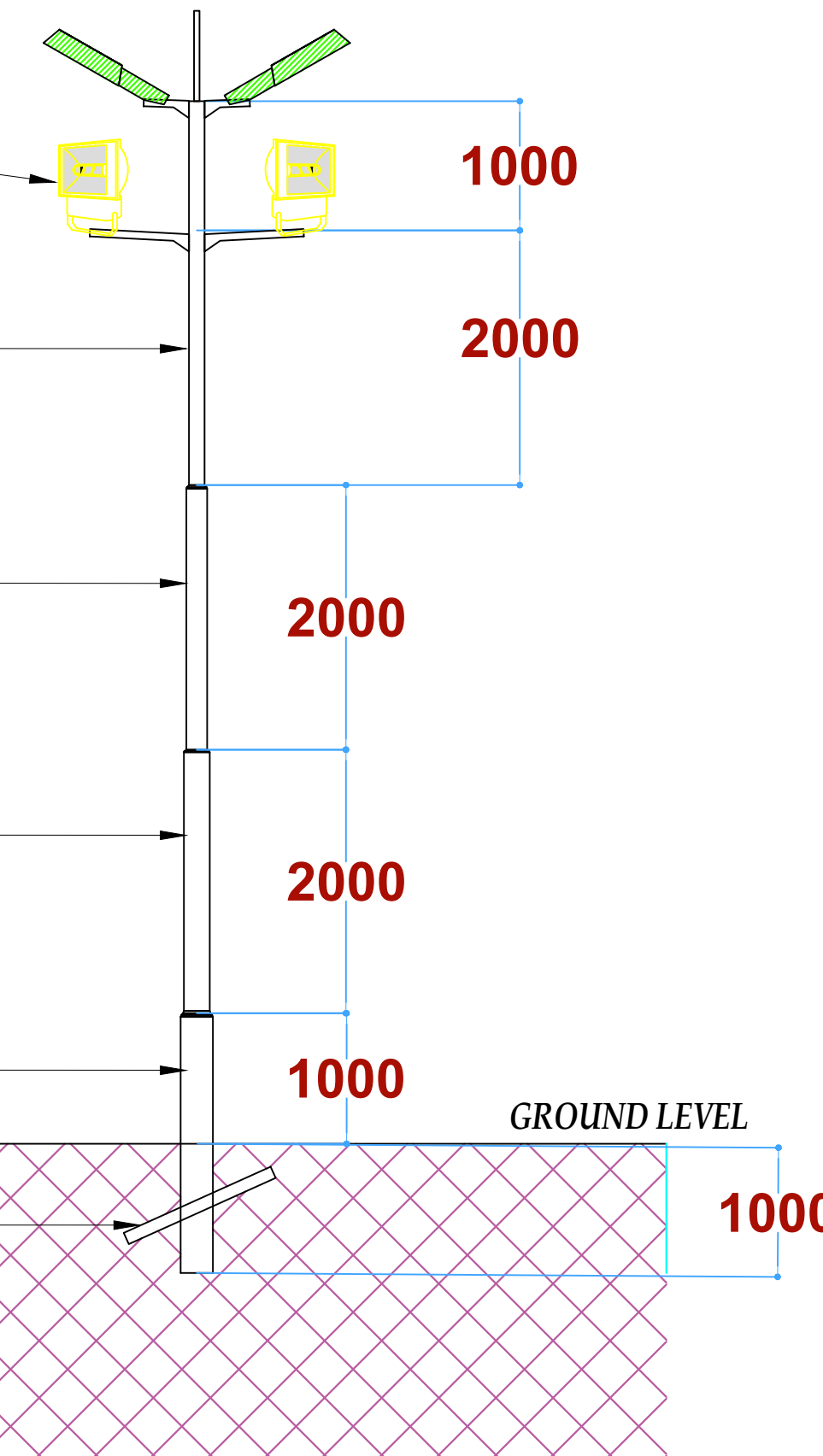
3" dia. class B G.I. pipe

4" dia. class B G.I. pipe

5" dia. class B G.I. pipe

6" dia. class B G.I. pipe

Wall Pass



TYPE M SOLAR  
FLOOD LIGHT DETAIL

Solar Street Light  
Light output (W): 40W  
Power of PV Module: 90W

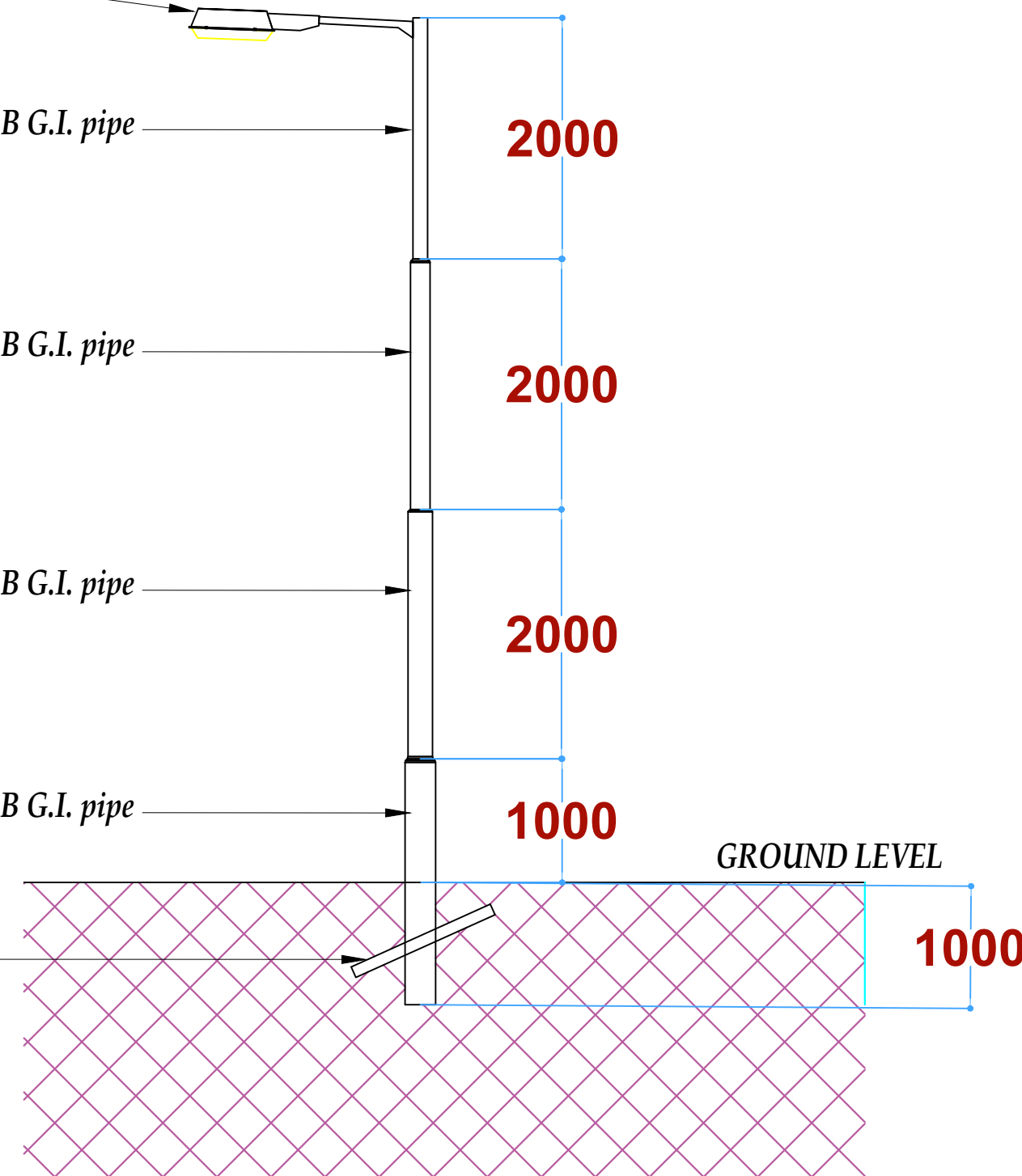
2" dia. class B G.I. pipe

4" dia. class B G.I. pipe

5" dia. class B G.I. pipe

6" dia. class B G.I. pipe

Wall Pass



P4  
STREET LIGHT DETAIL





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NAIROBI, KENYA.

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9. BETWEEN THE ARCHITECT AND THE CONTRACTOR.
10. THE PROJECT NOTES ARE TO BE READ IN CONJUNCTION WITH ALL RELEVANT TECHNICAL SPECIFICATIONS.

REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF  
KIJIHI CENTRAL FISH LANDING  
SITE- KIJIHI COUNTY

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

DRAWING TITLE:

POWER SYSTEM SOLAR  
SCHEMATIC

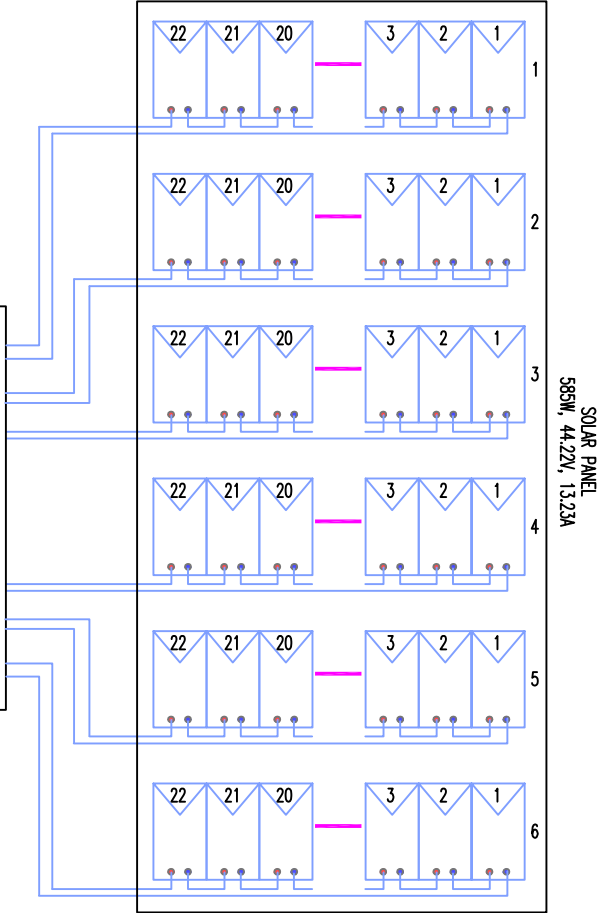
Dwg. No. **10-003E-040**

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Drawn by \_\_\_\_\_ Check'd By \_\_\_\_\_

Project no.: \_\_\_\_\_ Date: \_\_\_\_\_

06 24.11.2023

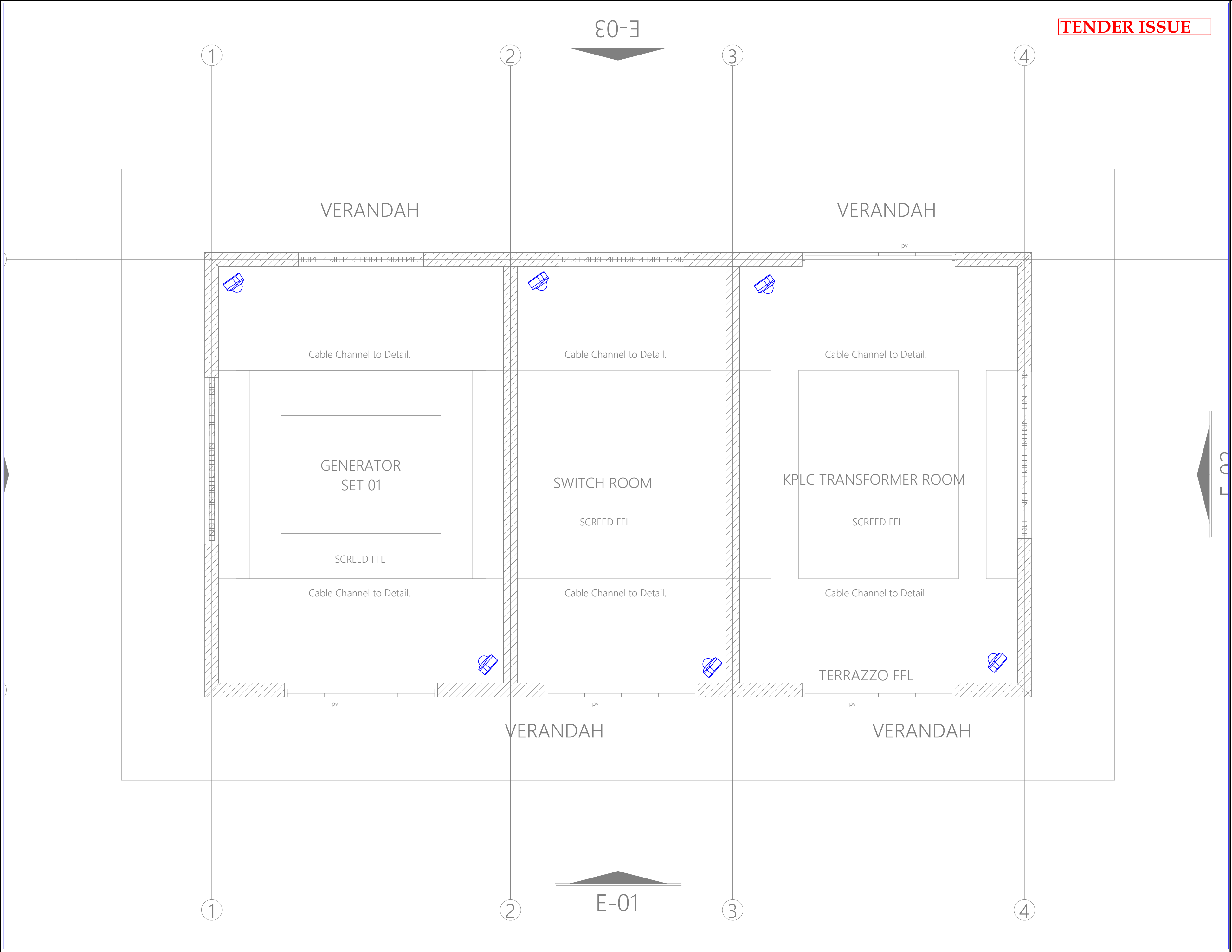


SOLAR PV POWER TO GRID SYNCHRONIZATION PANEL

MAIN POWER BOARD

25kWh Battery Pack

POWER SYSTEM  
SOLAR SCHEMATIC



TENDER ISSUE

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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

POWER HOUSE CCTV

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| Dwg. No. | 10- 003E- 042 |
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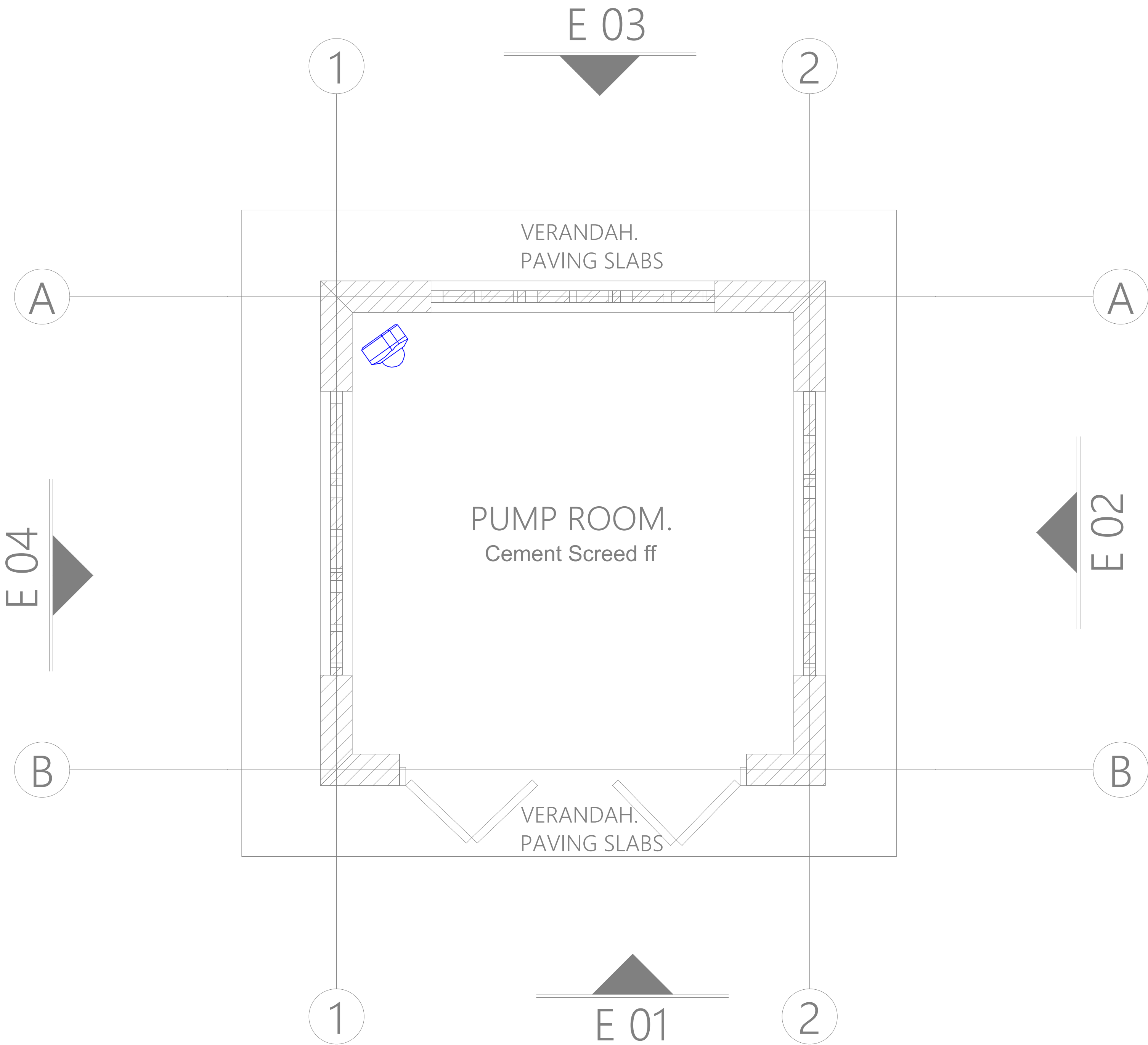
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| Project no.: | Date:      |
| 10           | 30.01.2024 |



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PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH  
LANDING SITES/MARKETS FISHERIES  
OFFICES

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

PUMP ROOM CCTV LAYOUT

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| Dwg. No.     | 10- 003E- 041 |            |  |
| Scale:       | NTS           |            |  |
| Drawn by     |               | Chek'd By  |  |
| Project no.: |               | Date:      |  |
| 10           |               | 30.01.2024 |  |

DRAWING TITLE: PROPOSED FISH LANDING SITES/ MARKETS - KILIFI

DRAWING NUMBER: 010-003M-001

| No. | DRAWING/ DOCUMENT TITLE                                 | DRAWING NUMBER | DRAWING SHEET | DRAWING FORMAT | DOCUMENT STATUS |
|-----|---|----------------|---------------|----------------|-----------------|
| D   | MECHANICAL ENGINEERING DRAWINGS                         |                |               |                |                 |
| 1   | LIST OF DRAWINGS  | 010- 003M- 001 | A3            | PDF/ EXCEL     | Provided        |
| 2   | FISH GEAR AND ABLUTION ROOF DRAINAGE LAYOUT             | 010- 003M- 002 | A2            | PDF/ DWG       | Provided        |
| 3   | OPEN AIR MARKET ROOF DRAINAGE LAYOUT                    | 010- 003M- 003 | A2            | PDF/ DWG       | Provided        |
| 4   | MODERN FISH BANDA ROOF DRAINAGE LAYOUT                  | 010- 003M- 004 | A2            | PDF/ DWG       | Provided        |
| 5   | FISH GEAR MENDING SHED ROOF DRAINAGE LAYOUT             | 010- 003M- 005 | A2            | PDF/ DWG       | Provided        |
| 6   | POWER HOUSE & PUMP ROOM ROOF DRAINAGE LAYOUT            | 010- 003M- 006 | A2            | PDF/ DWG       | Provided        |
| 7   | MODERN FISH BANDA SECOND FLOOR ROOF DRAINAGE LAYOUT     | 010- 003M- 007 | A2            | PDF/ DWG       | Provided        |
| 8   | FISH GEAR AND ABLUTION GROUND FLOOR DRAINAGE LAYOUT     | 010- 003M- 008 | A2            | PDF/ DWG       | Provided        |
| 9   | OPEN AIR MARKET GROUND FLOOR DRAINAGE LAYOUT            | 010- 003M- 009 | A2            | PDF/ DWG       | Provided        |
| 10  | MODERN FISH BANDA GROUND FLOOR DRAINAGE LAYOUT          | 010- 003M- 010 | A2            | PDF/ DWG       | Provided        |
| 11  | FISH GEAR MENDING SHED GROUND FLOOR DRAINAGE LAYOUT     | 010- 003M- 011 | A2            | PDF/ DWG       | Provided        |
| 12  | POWER HOUSE & PUMP ROOM GROUND FLOOR DRAINAGE LAYOUT    | 010- 003M- 012 | A2            | PDF/ DWG       | Provided        |
| 13  | FISH GEAR AND ABLUTION ROOF WATER SUPPLY LAYOUT         | 010- 003M- 013 | A2            | PDF/ DWG       | Provided        |
| 14  | OPEN AIR MARKET ROOF WATER SUPPLY LAYOUT                | 010- 003M- 014 | A2            | PDF/ DWG       | Provided        |
| 15  | MODERN FISH BANDA GROOF WATER SUPPLY LAYOUT             | 010- 003M- 015 | A2            | PDF/ DWG       | Provided        |
| 16  | FISH GEAR MENDING SHED ROOF WATER SUPPLY LAYOUT         | 010- 003M- 016 | A2            | PDF/ DWG       | Provided        |
| 17  | FISH GEAR STORE AND ABLUTION GROUND FLOOR WATER SUPPLY  | 010- 003M- 017 | A2            | PDF/ DWG       | Provided        |
| 18  | OPEN AIR MARKET GROUND FLOOR WATER SUPPLY LAYOUT        | 010- 003M- 018 | A2            | PDF/ DWG       | Provided        |
| 19  | MODERN FISH BANDA GROUND FLOOR WATER SUPPLY LAYOUT      | 010- 003M- 019 | A2            | PDF/ DWG       | Provided        |
| 20  | FISH GEAR MENDING SHED GROUND WATER WATER SUPPLY LAYOUT | 010- 003M- 020 | A2            | PDF/ DWG       | Provided        |
| 21  | PUMP ROOM WATER SUPPLY AND FIRE FIGHTING LAYOUT         | 010- 003M- 021 | A2            | PDF/ DWG       | Provided        |
| 22  | SITE PLAN WATER RETICULATION                            | 010- 003M- 022 | A2            | PDF/ DWG       | Provided        |





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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

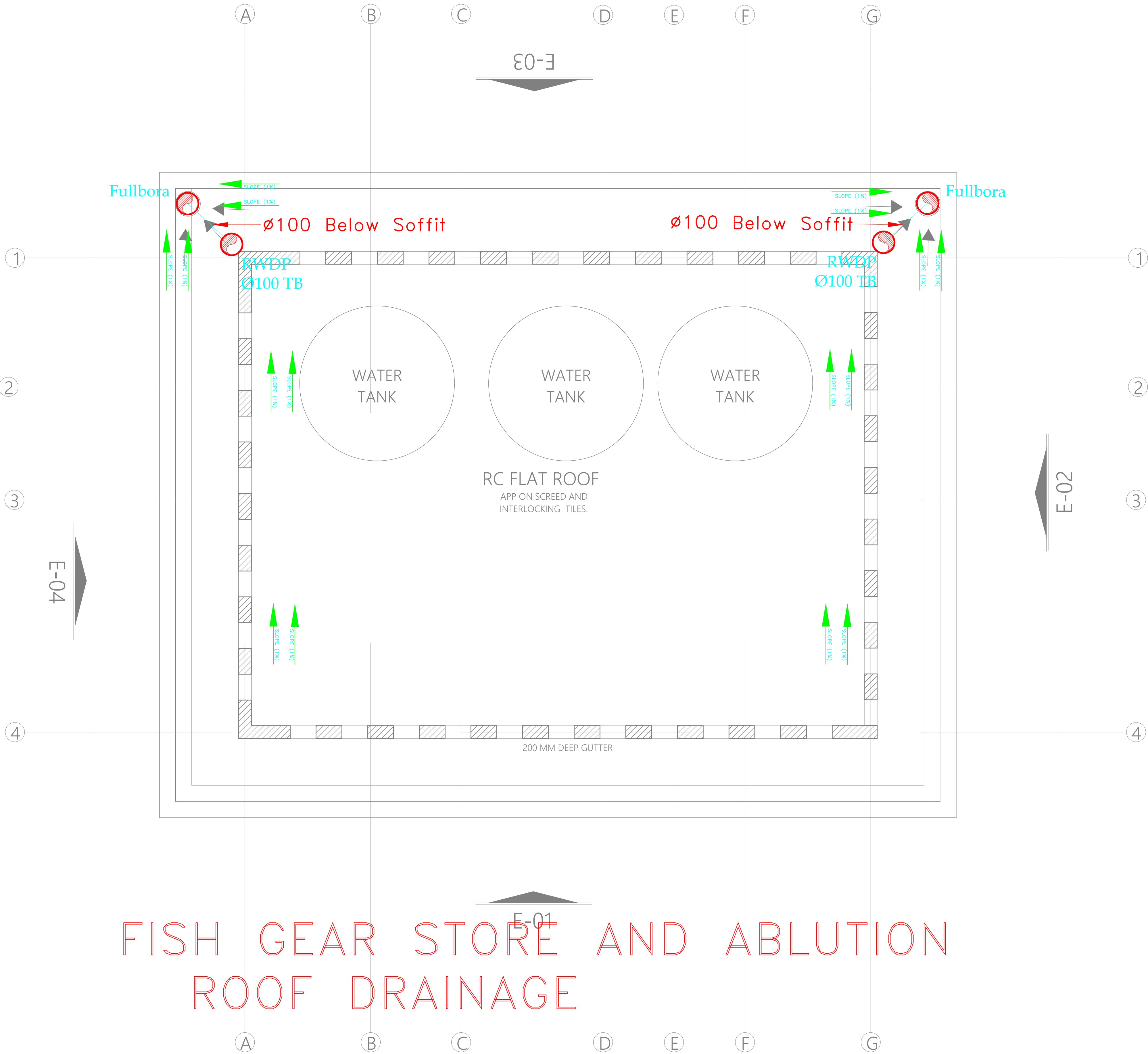
FISH GEAR STORE AND  
ABLUTION ROOF  
DRAINAGE

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| Dwg. No. | 010-003M-002 |
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| Drawn by | TO | Chek'd By | G.O. |
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| Project no.: | Date:      |
| P.010        | 15.01.2024 |



FISH GEAR STORE AND ABLUTION  
ROOF DRAINAGE



ARPRIM CONSORTIUM,  
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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

OPEN AIR MARKET ROOF  
DRAINAGE

Dwg. No. **010-003M-003**

Scale: NTS

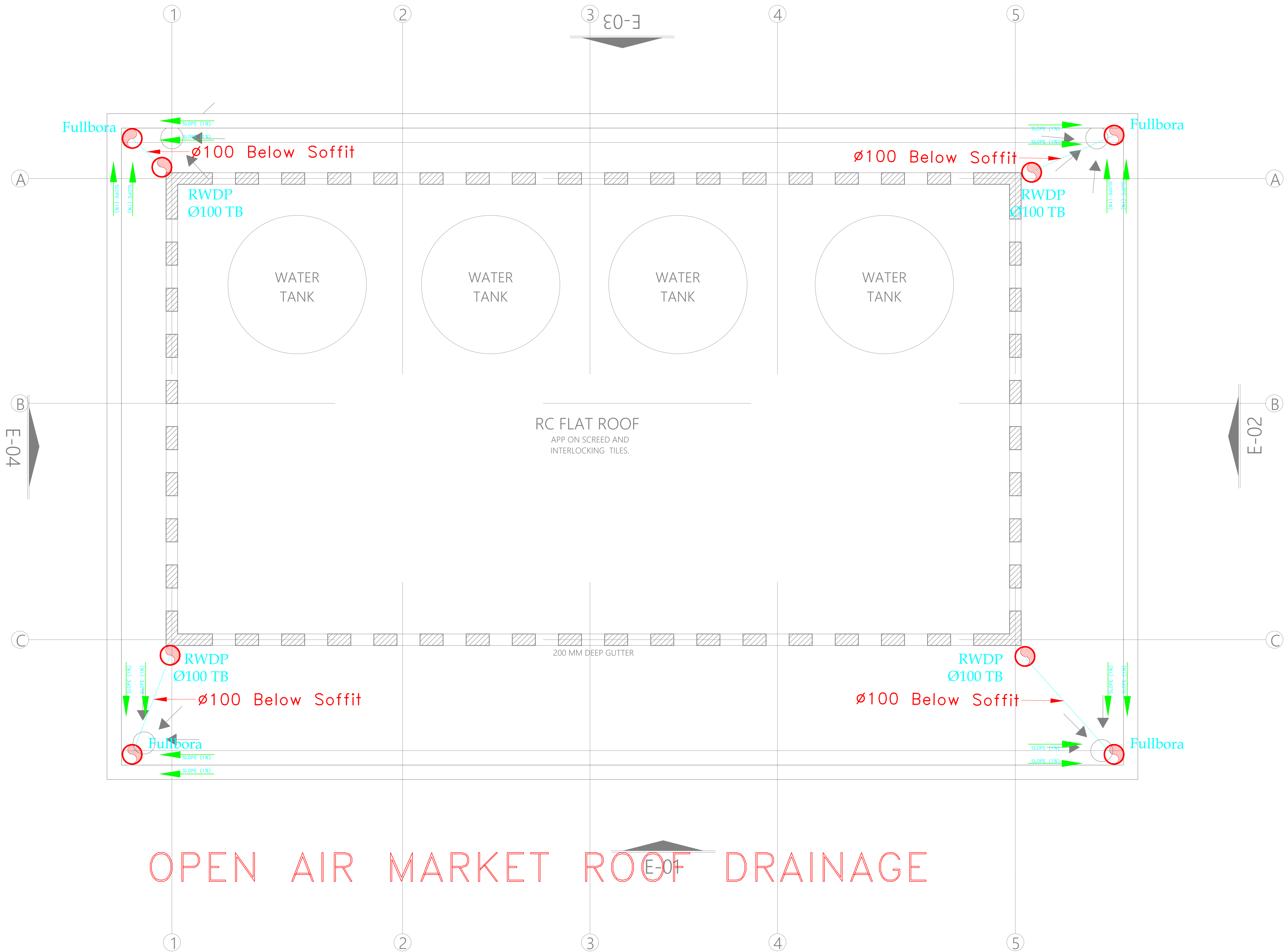
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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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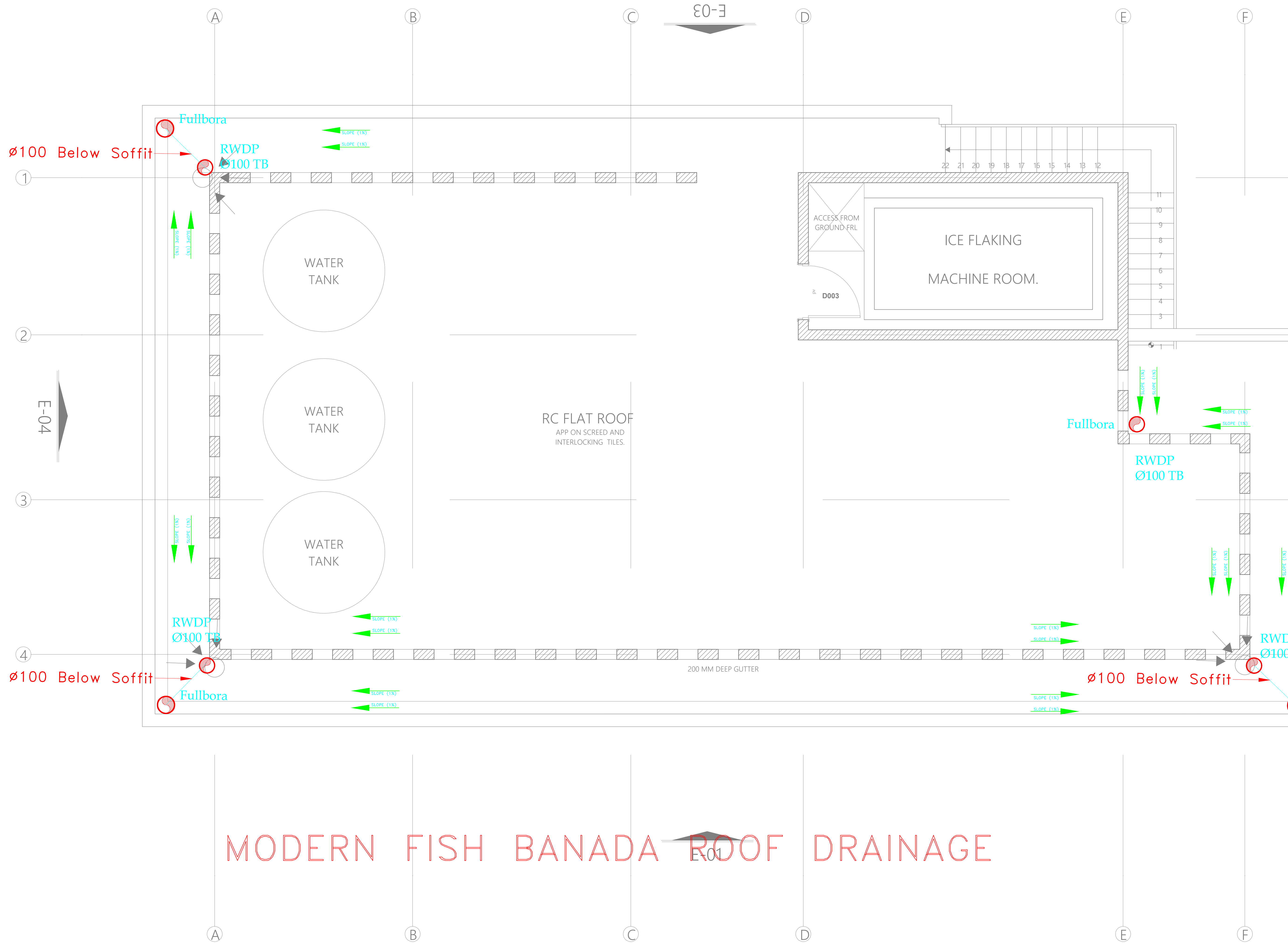
DRAWING TITLE:  
MODERN FISH BANADA  
ROOF DRAINAGE

Dwg. No. **010-003M-004**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

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MODERN FISH BANADA ROOF DRAINAGE



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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

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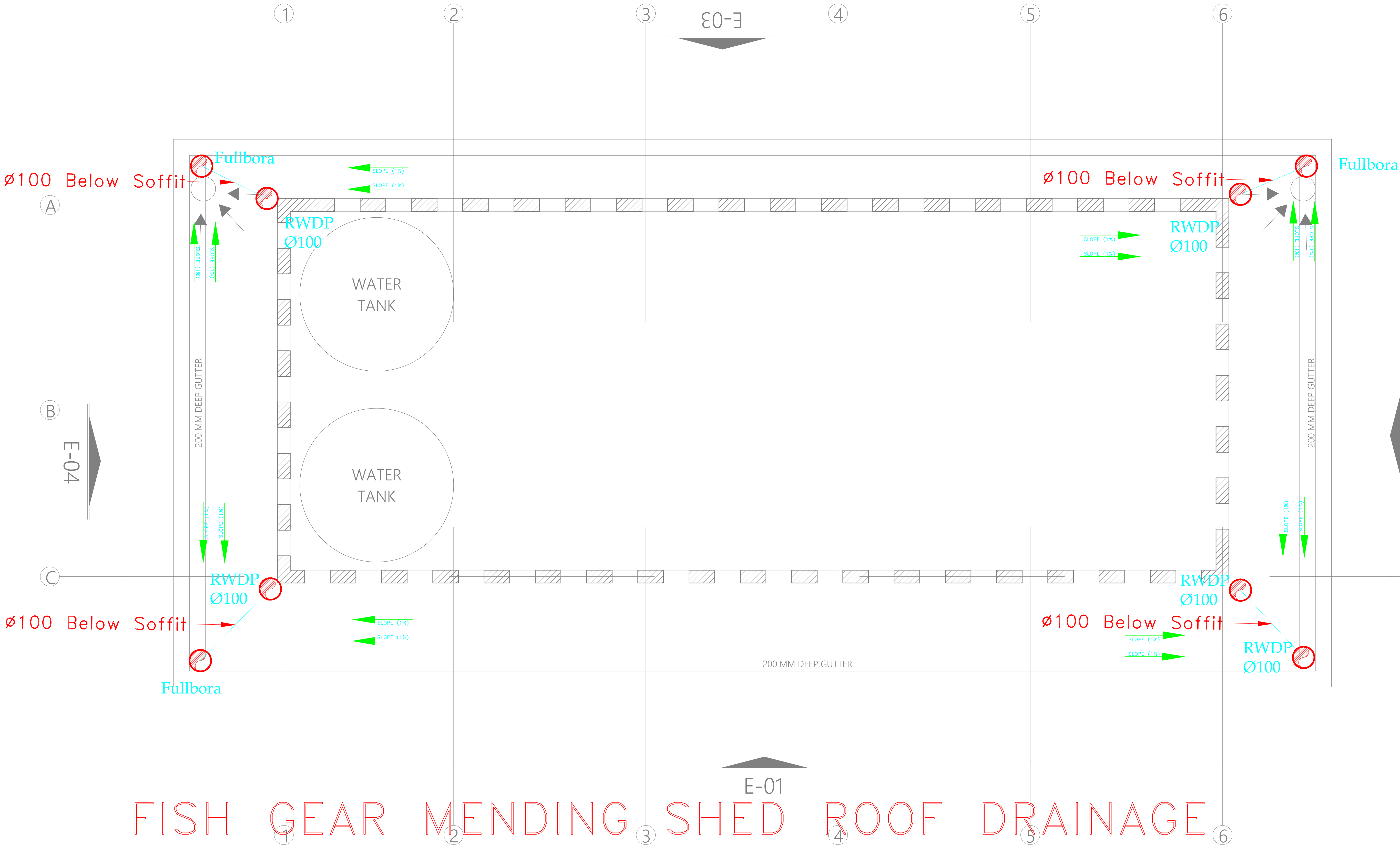
**FISH GEAR MENDING SHED  
ROOF DRAINAGE**

Dwg. No. **010-003M-005**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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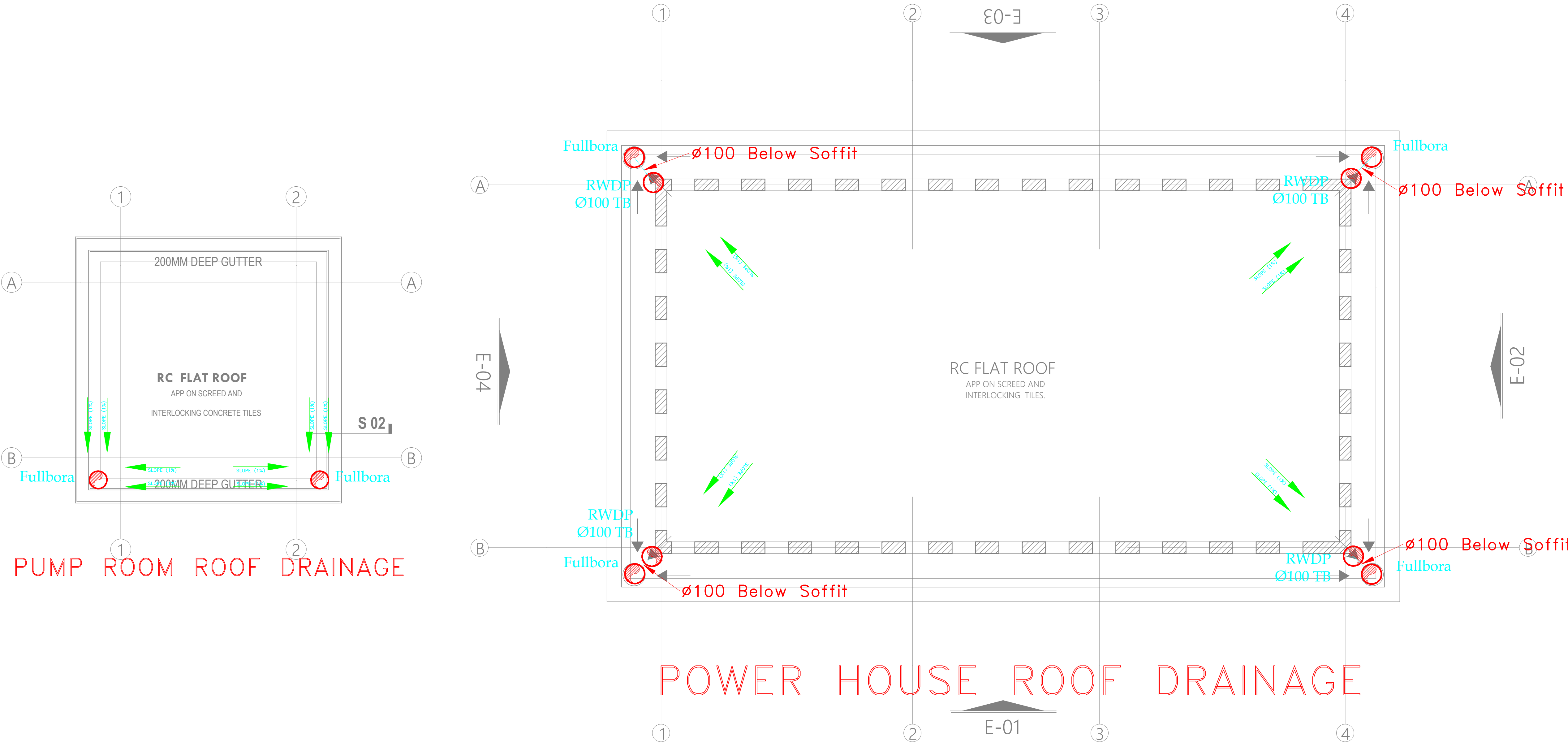
POWER HOUSE & PUMP  
ROOM ROOF DRAINAGE

Dwg. No. **010-003M-006**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

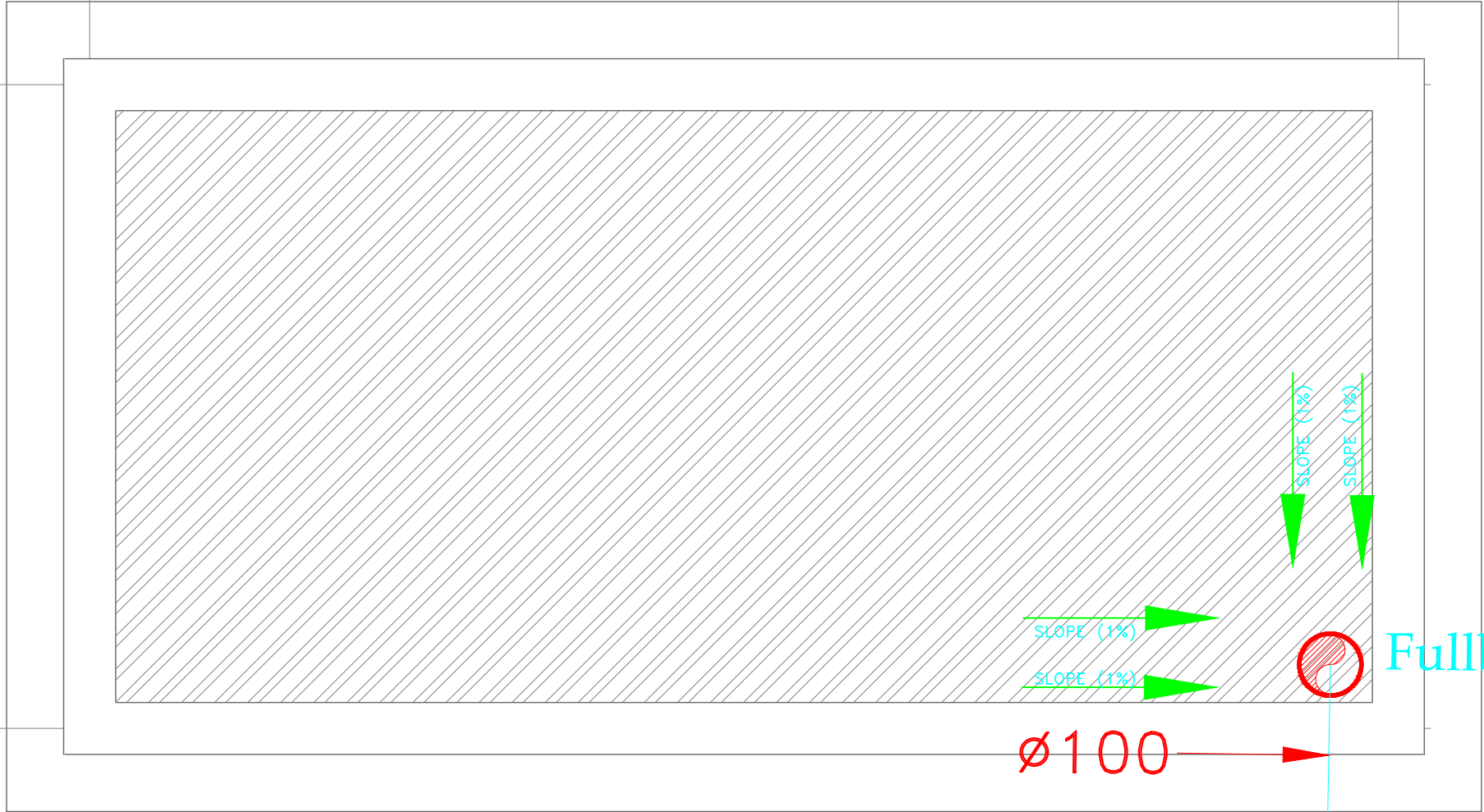
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DRAWING TITLE:

MODERN FISH BANDA  
SECOND FLOOR ROOF  
DRAINAGE

|              |              |            |      |
|--------------|--------------|------------|------|
| Dwg. No.     | 010-003M-007 |            |      |
| Scale:       | NTS          |            |      |
| Drawn by     | TO           | Chek'd By  | G.O. |
| Project no.: |              | Date:      |      |
| P.010        |              | 15.01.2024 |      |

B C D E F



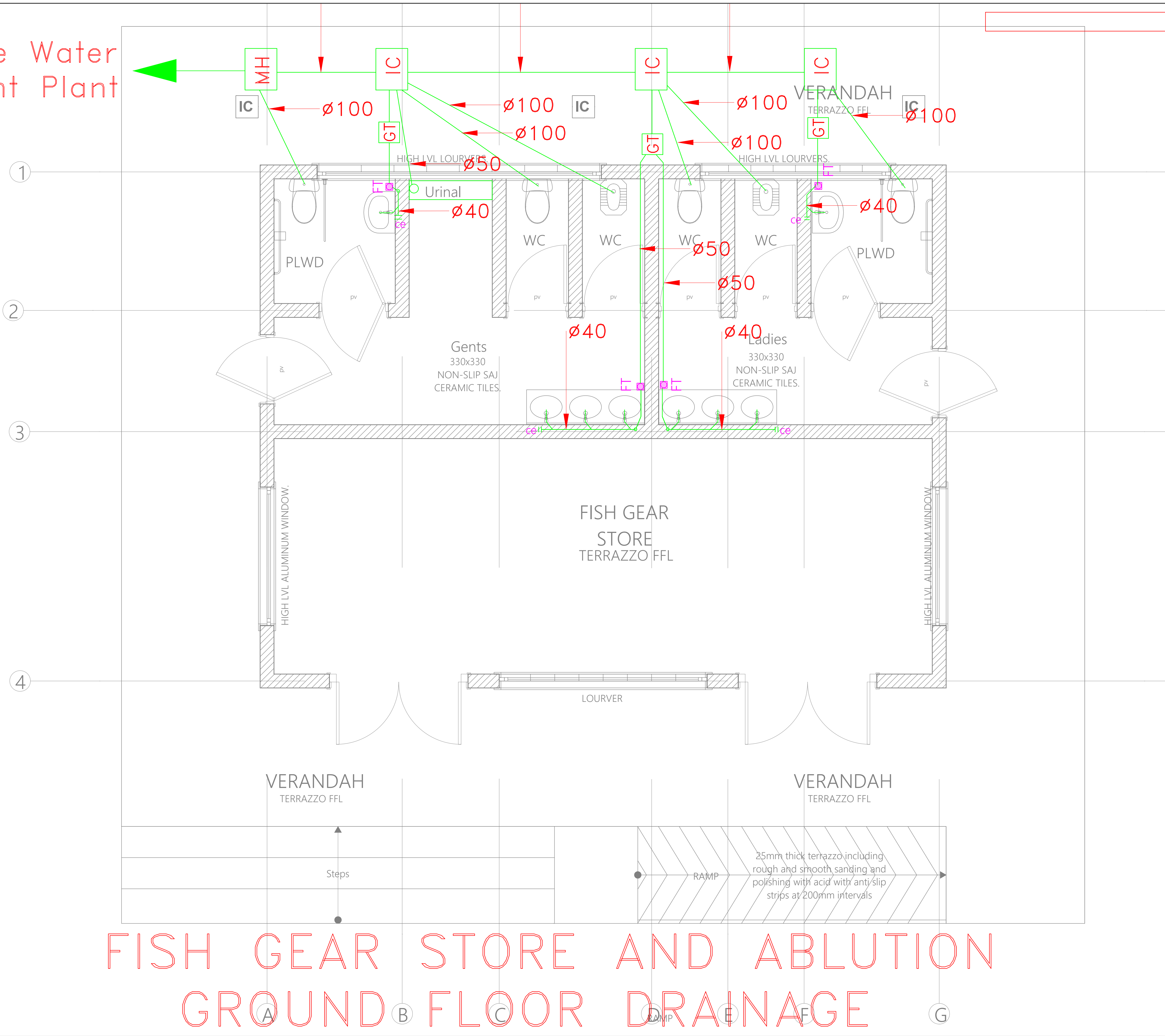
Fullbora

RWDP  
Ø100 To First  
Floor

SECOND FLOOR ROOF DRAINAGE



To Waste Water  
Treatment Plant



# FISH GEAR STORE AND ABLUTION GROUND FLOOR DRAINAGE

THIS DRAWING IS ARPRIM  
CONSORTIUM'S COPYRIGHT



ARPRIM CONSORTIUM,  
PO. BOX 12969-0040,  
NAIROBI. KENYA.

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## REVISIONS:

| REV. No. | Details of Revision |
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## PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

## CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

## CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

## DRAWING TITLE:

**FISH GEAR AND ABLUTION  
GROUND DRAINAGE**

Dwg. No. **010-003M-008**

Scale: NTS

Drawn by **TO** Chk'd By **G.O.**

Project no.: \_\_\_\_\_ Date: 15.01.2024

P.010



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PO. BOX 12969-0040,  
NAIROBI, KENYA.

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

OPEN AIR MARKET  
GROUND FLOOR DRAINAGE

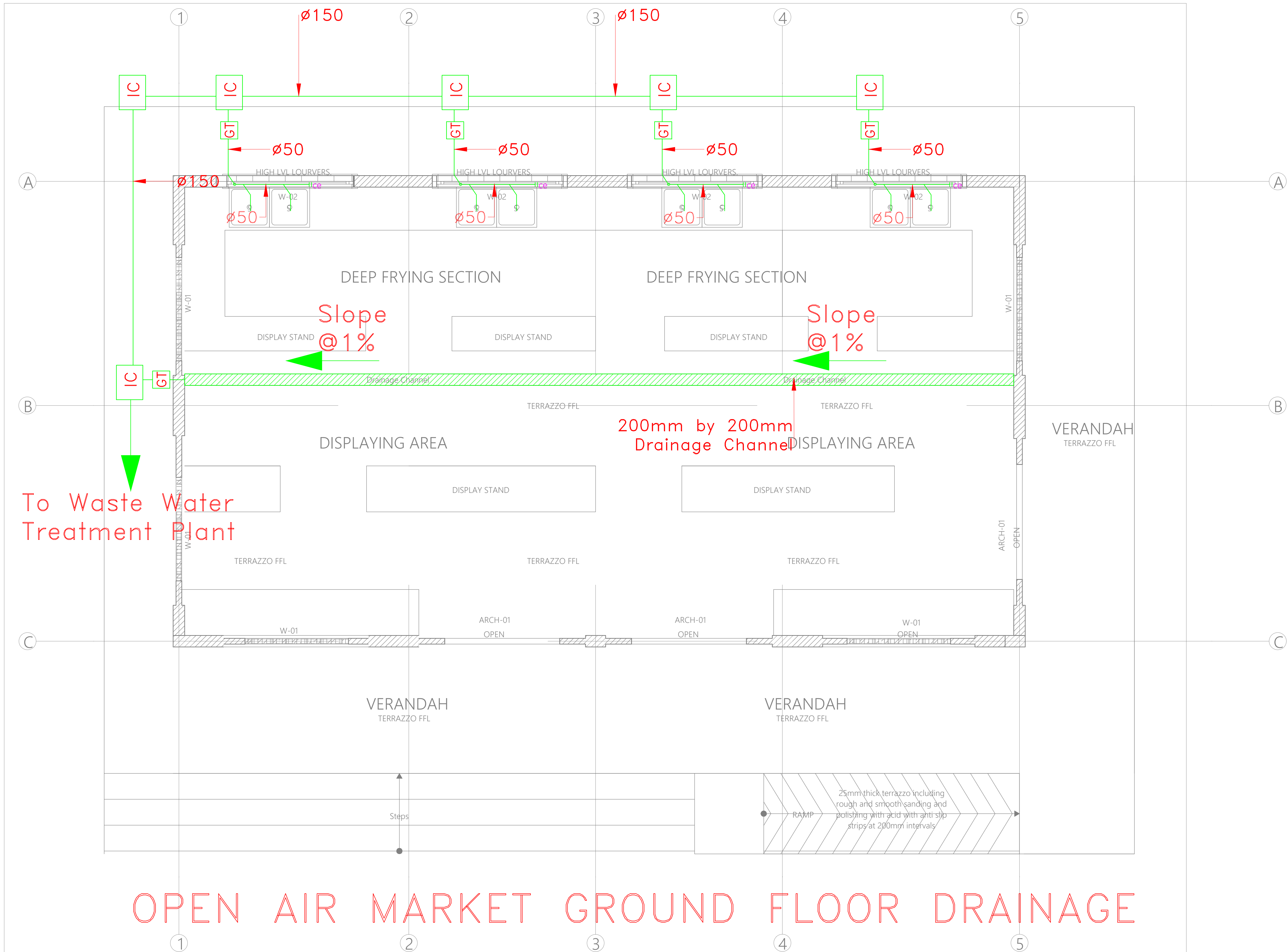
Dwg. No. 010-003M-009

Scale: NTS

Drawn by TO Chek'd By G.O.

Project no.: Date:

P.010 15.01.2024







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NAIROBI, KENYA.

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

DRAWING TITLE:

MODERN FISH BANADA  
GROUND FLOOR DRAINAGE

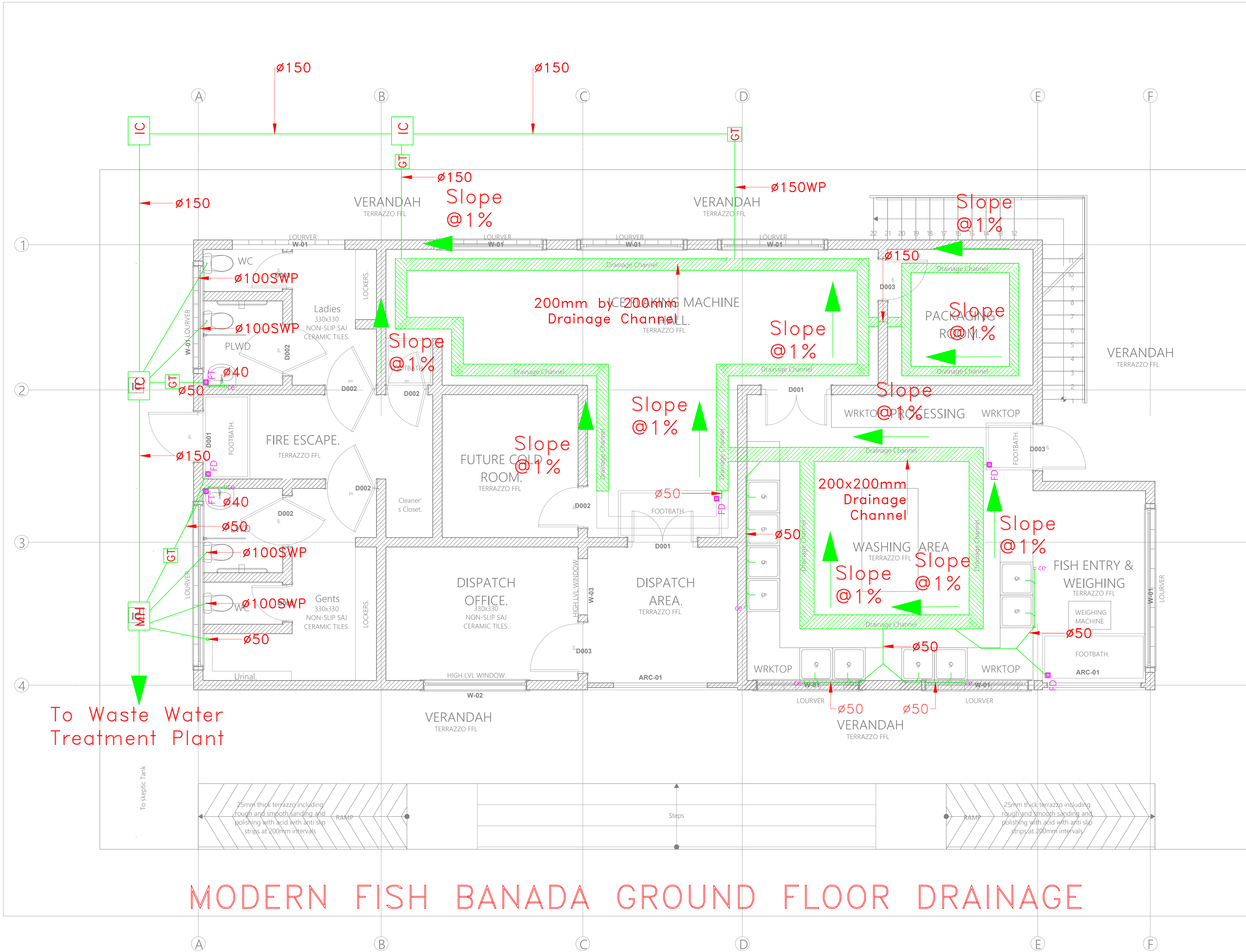
Dwg. No. **010-003M-010**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

Project no.: \_\_\_\_\_ Date: \_\_\_\_\_

P.010 15.01.2024





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PO. BOX 12969-0040,  
NAIROBI. KENYA.

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:  

DRAWING TITLE:

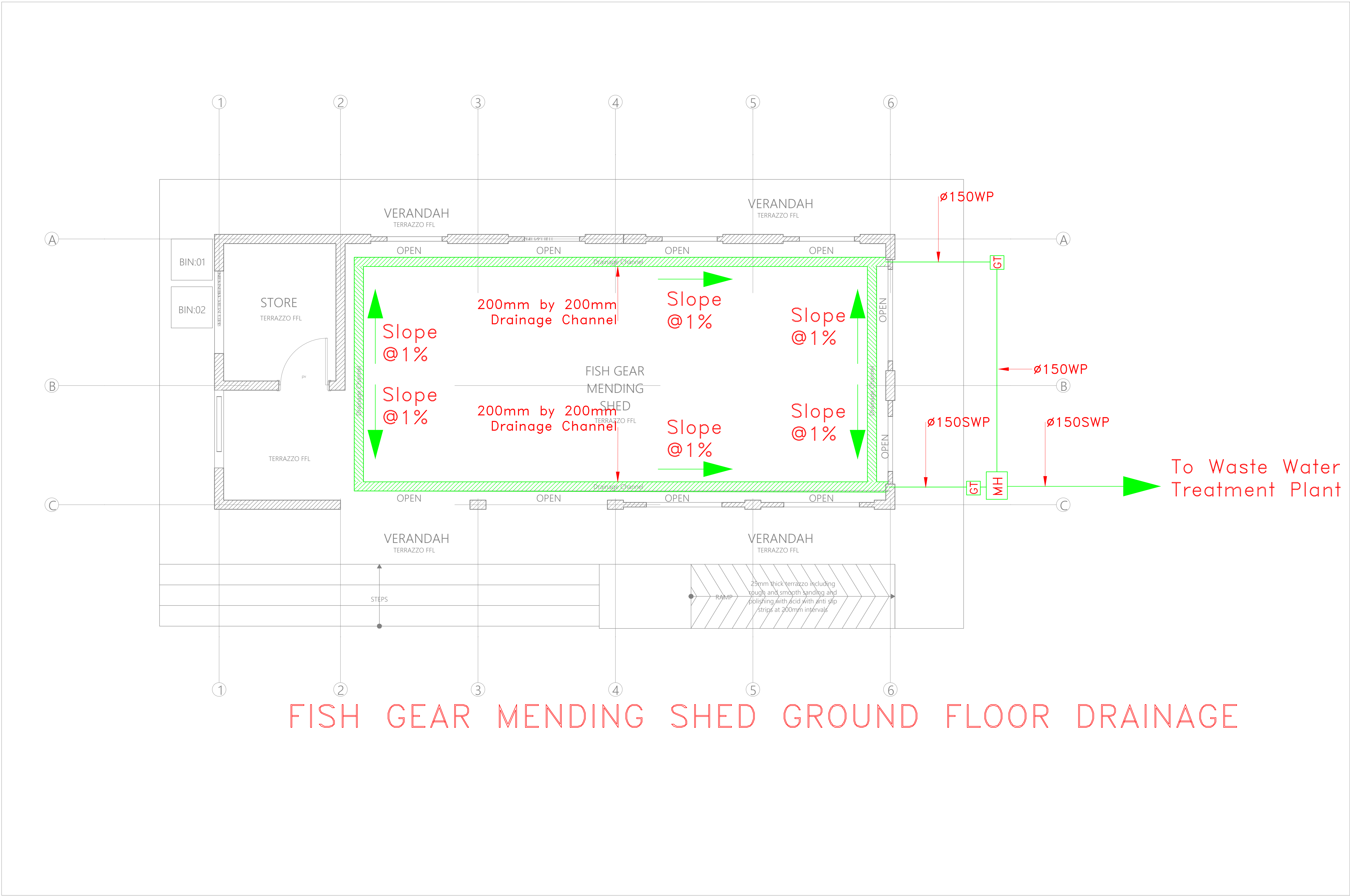
**FISH GEAR MENDING SHED  
GROUND FLOOR DRAINAGE**

Dwg. No. **010-003M-011**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

Project no.:   Date:    
P.010 15.01.2024



FISH GEAR MENDING SHED GROUND FLOOR DRAINAGE





ARPRIM CONSORTIUM,  
PO. BOX 12969-0040,  
NAIROBI. KENYA.

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF  
KILIFI FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

POWER HOUSE & PUMP  
ROOMS DRAINAGE LAYOUT

Dwg. No. **10- 003M- 012**

Scale: NTS

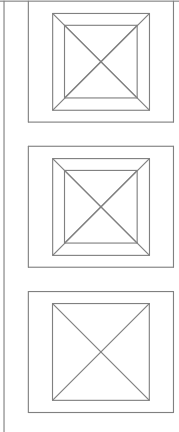
Drawn by  Chek'd By

Project no.:  Date:

010 29.01.2024



Petrol interceptor  
to C.E. Detail



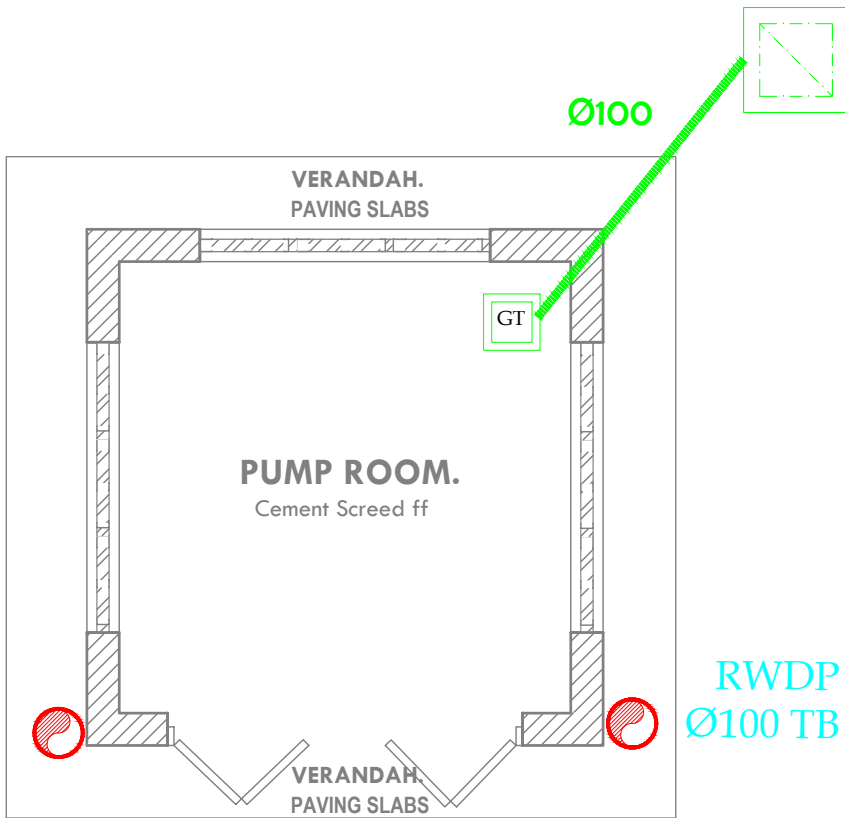
RWDP  
Ø100 TB  
Ø100

200mm by 200mm  
Drainage Channel

RWDP  
Ø100 TB

RWDP  
Ø100 TB

RWDP  
Ø100 TB



E 01

PUMP ROOM & POWER HOUSE DRAINAGE



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NAIROBI. KENYA.

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:  

DRAWING TITLE:

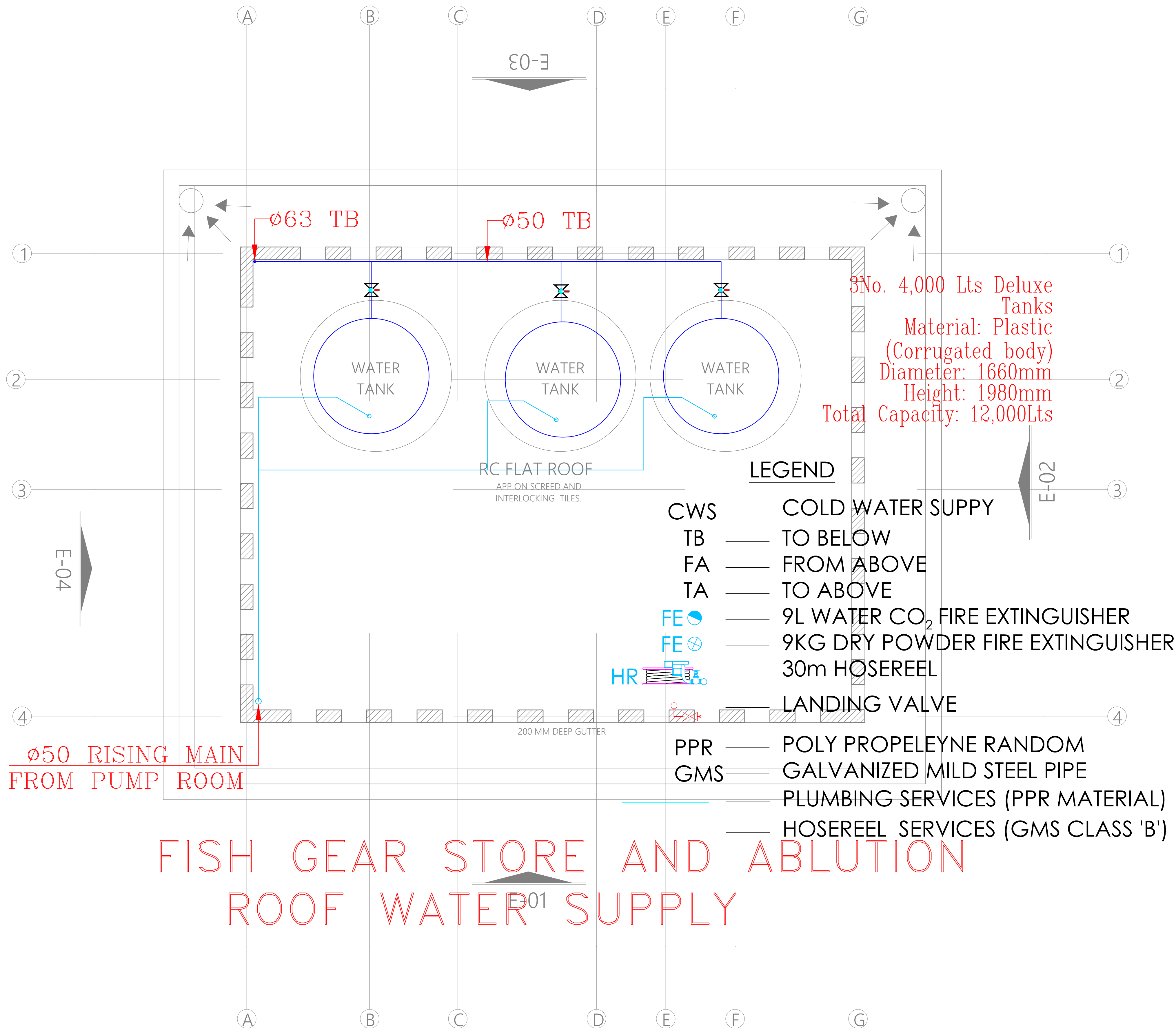
FISH GEAR STORE AND  
ABLUTION ROOF WATER  
SUPPLY

Dwg. No. **010-003M-013**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

Project no.:   Date:    
P.010 15.01.2024







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NAIROBI. KENYA.

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

DRAWING TITLE:

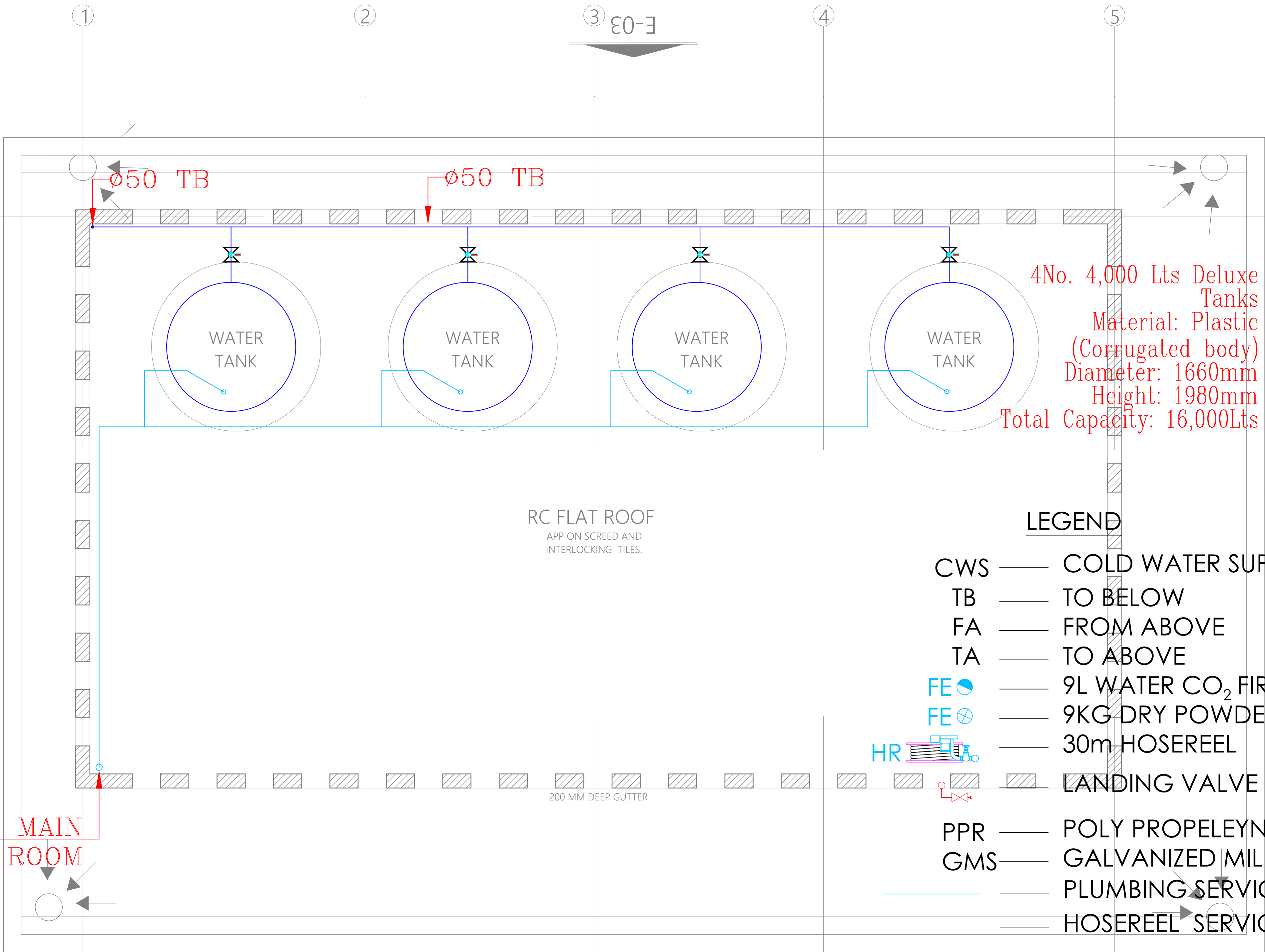
OPEN AIR MARKET ROOF  
WATER SUPPLY

Dwg. No. **010-003M-014**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

Project no.: \_\_\_\_\_ Date: 15.01.2024



- LEGEND**
- CWS — COLD WATER SUPPLY  
TB — TO BELOW  
FA — FROM ABOVE  
TA — TO ABOVE  
FE — 9L WATER CO<sub>2</sub> 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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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:  

DRAWING TITLE:

MODERN FISH BANDA  
ROOF WATER SUPPLY

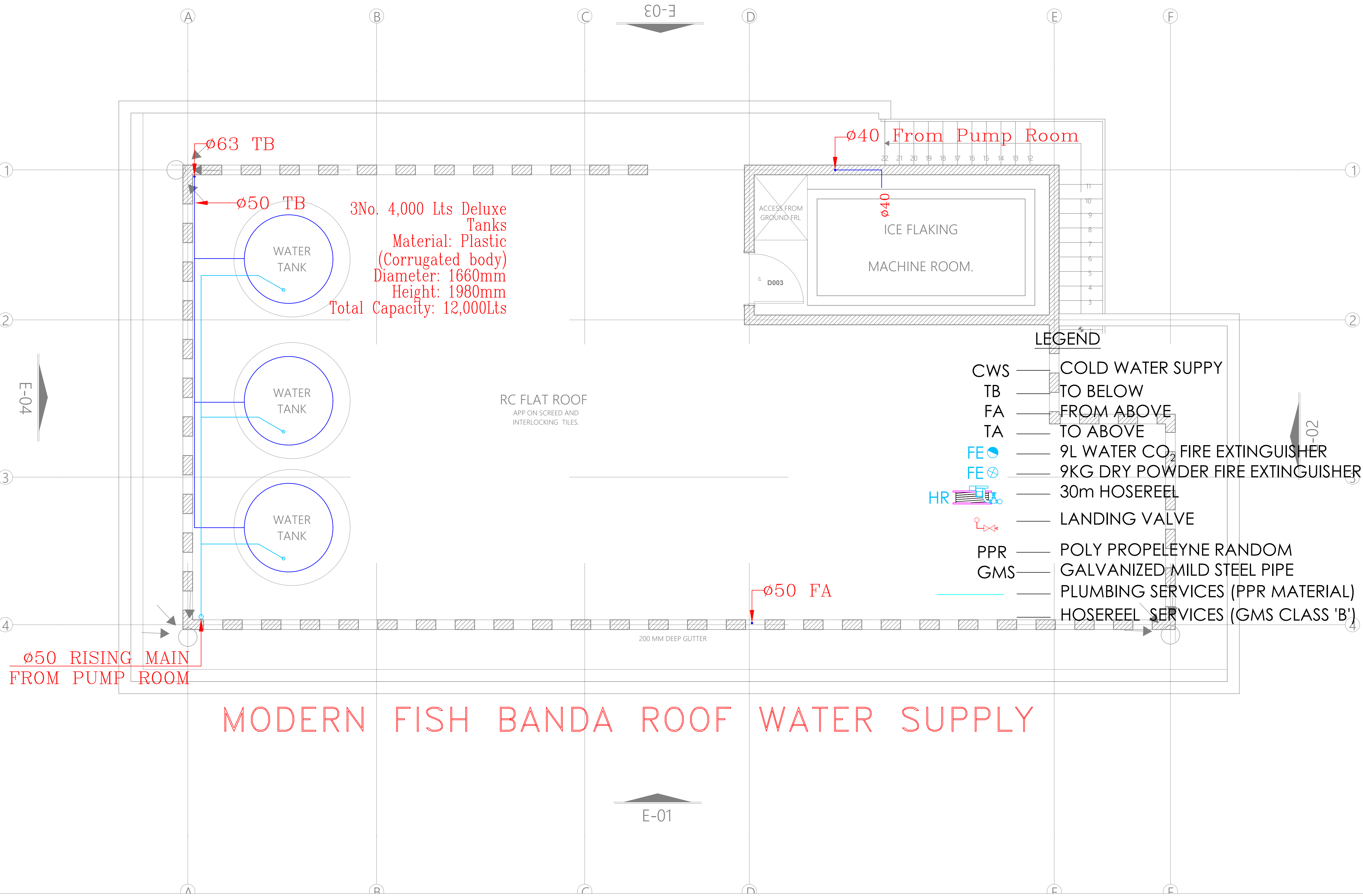
Dwg. No. **010-003M-015**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

Project no.:   Date:  

P.010 15.01.2024







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NAIROBI. KENYA.

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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DRAWING TITLE:

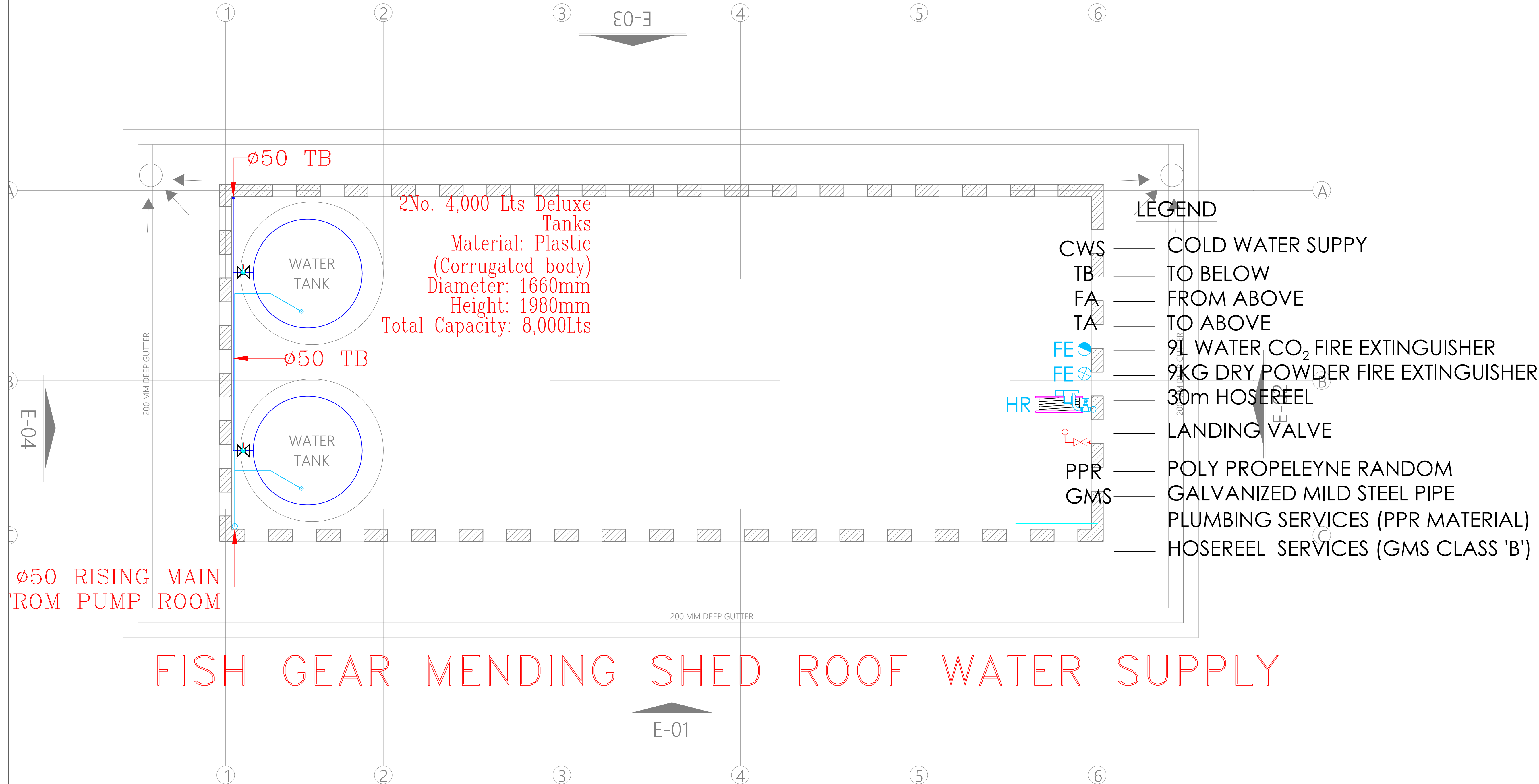
FISH GEAR MENDING SHED ROOF  
WATER SUPPLY

Dwg. No. **010-003M-016**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

|              |            |
|--------------|------------|
| Project no.: | Date:      |
| P.010        | 15.01.2024 |





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PROJECT TITLE:

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FISHERIES AND SOCIO-ECONOMIC  
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LANDING SITE)

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STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

DRAWING TITLE:  
FISH GEAR STORE AND  
ABLUTION GROUND FLOOR  
WATER SUPPLY

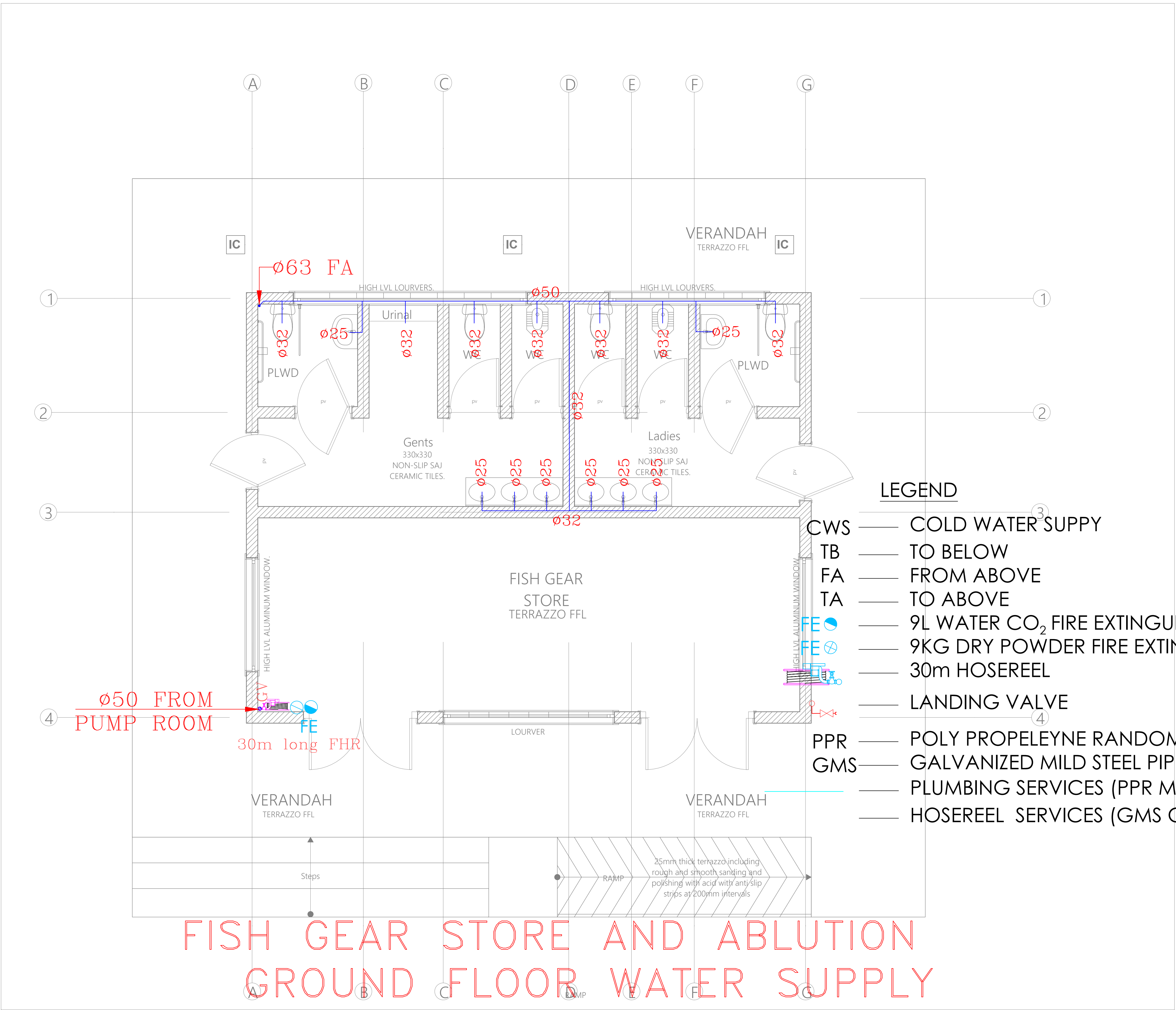
Dwg. No. **010-003M-017**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

Project no.: \_\_\_\_\_ Date: \_\_\_\_\_

P.010 15.01.2024







ARPRIM CONSORTIUM,  
PO. BOX 12969-0040,  
NAIROBI. KENYA.

NOTES

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REVISIONS:

| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign:  

DRAWING TITLE:

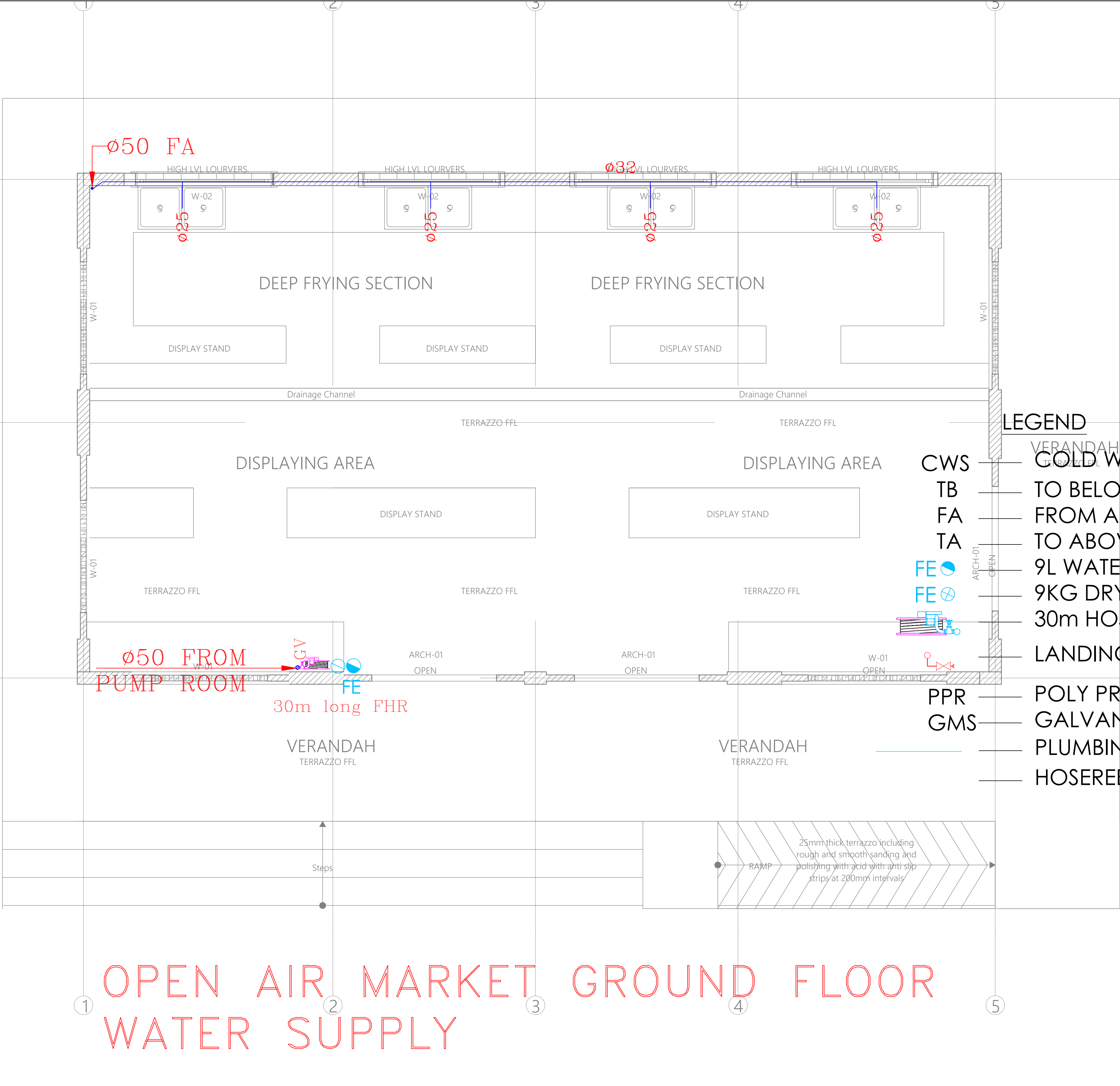
OPEN AIR MARKET  
GROUND FLOOR WATER  
SUPPLY

Dwg. No. **010-003M-018**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

Project no.:  Date:  
P.010 15.01.2024



LEGEND

- CWS — COLD WATER SUPPLY
- TB — TO BELOW
- FA — FROM ABOVE
- TA — TO ABOVE
- FE — 9L WATER CO<sub>2</sub> FIRE EXTINGUISHER
- FE — 9KG DRY POWDER FIRE EXTINGUISHER
- 30m HOSEREEL
- LANDING VALVE
- PPR — POLY PROPELEYNE RANDOM
- GMS — GALVANIZED MILD STEEL PIPE
- PLUMBING SERVICES (PPR MATERIAL)
- HOSEREEL SERVICES (GMS CLASS 'B')



ARPRIM CONSORTIUM,  
PO. BOX 12969-0040,  
NAIROBI. KENYA.

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REVISIONS:

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

DRAWING TITLE:

MODERN FISH BANDA  
GROUND FLOOR WATER  
SUPPLY

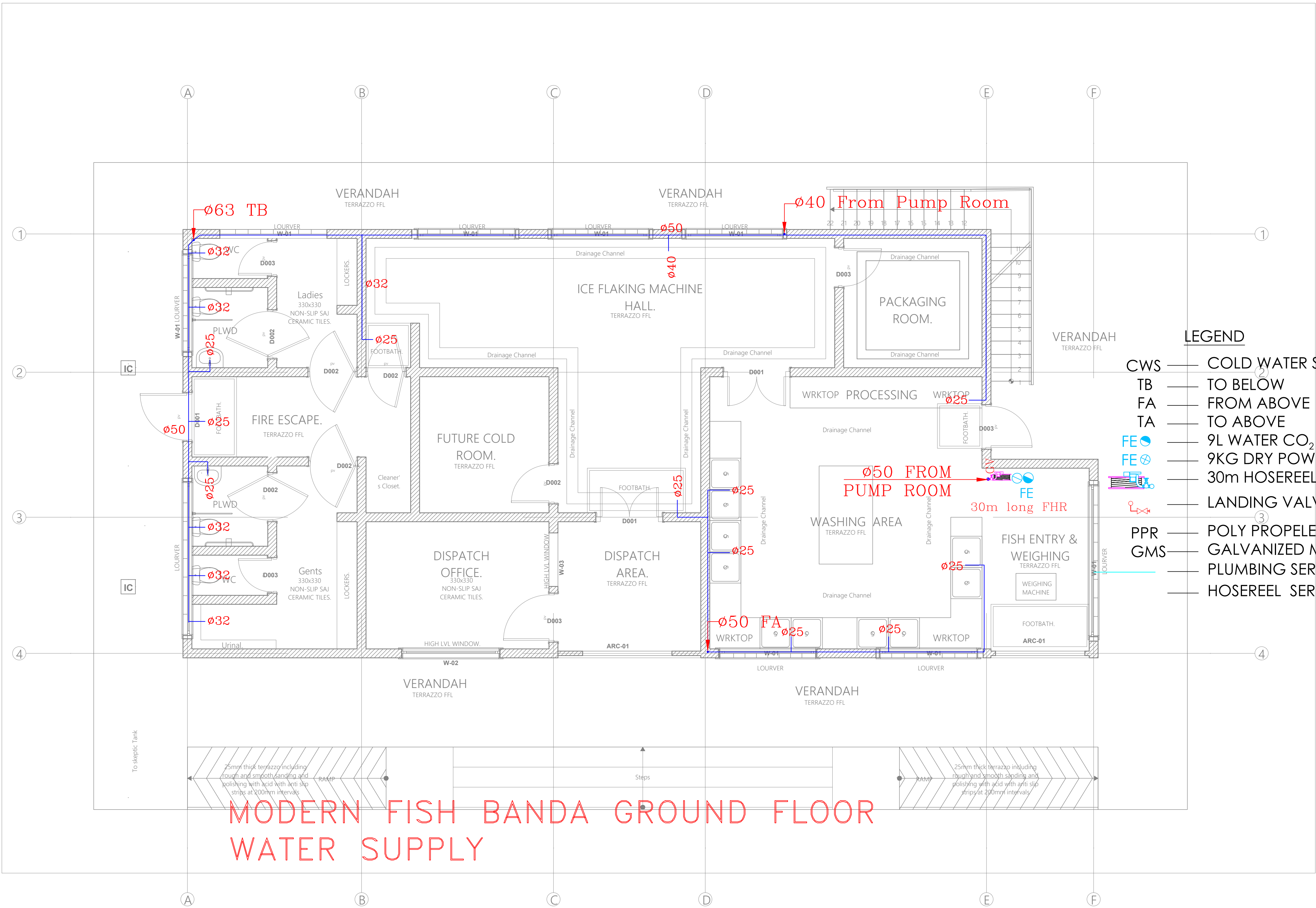
Dwg. No. **010-003M-019**

Scale: NTS

Drawn by **TO** Chek'd By **G.O.**

Project no.: Date:

P.010 15.01.2024



MODERN FISH BANDA GROUND FLOOR  
WATER SUPPLY





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PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

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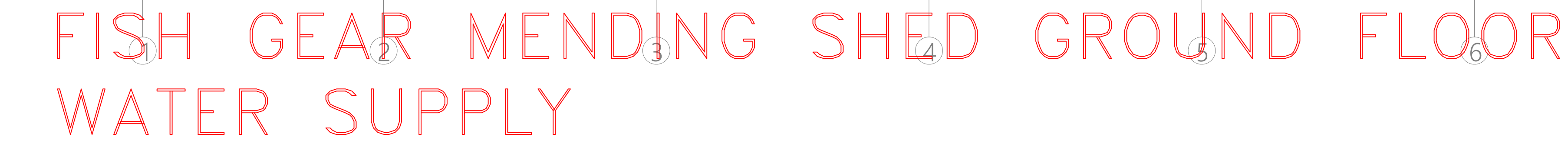
Dwg. No. **010-003M-020**

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| Drawn by | TO | Chek'd By | G.O. |
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| Project no.: | Date: |
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| P.010 | 15.01.2024 |
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PO. BOX 12969-0040,  
NAIROBI. KENYA.

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PROJECT TITLE:

PROPOSED KENYA MARINE  
FISHERIES AND SOCIO-ECONOMIC  
DEVELOPMENT (KILIFI CENTRAL FISH  
LANDING SITE)

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

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| Sign: |  |
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DRAWING TITLE:

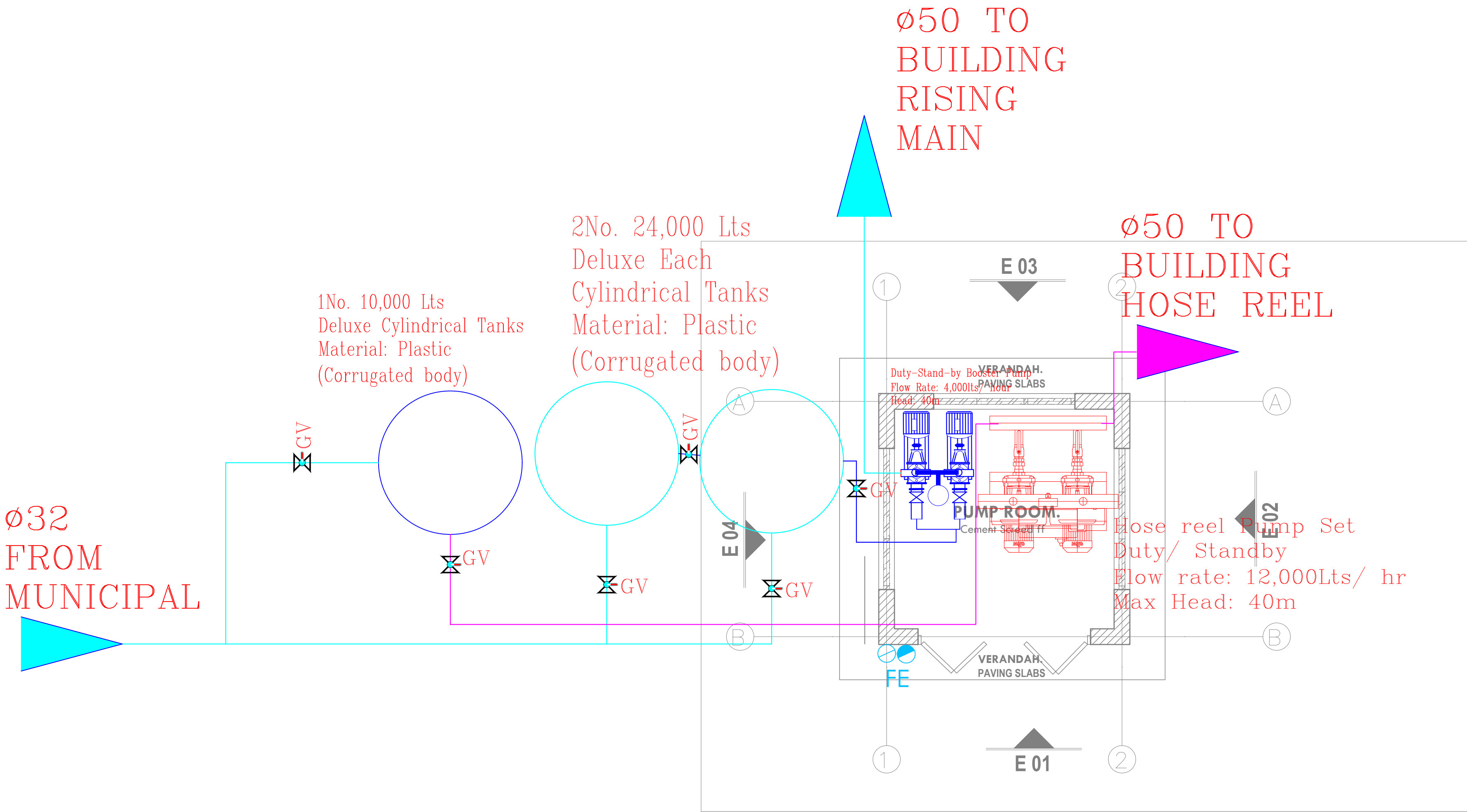
PUMP ROOM WATER  
SUPPLY AND FIRE FIGHTING

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| Dwg. No. | 010-003M-021 |
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| Drawn by | TO | Chek'd By | G.O. |
|----------|----|-----------|------|

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| Project no.: | Date:      |
| P.010        | 15.01.2024 |



PUMP ROOM WATER SUPPLY AND FIRE FIGHTING



LEGEND

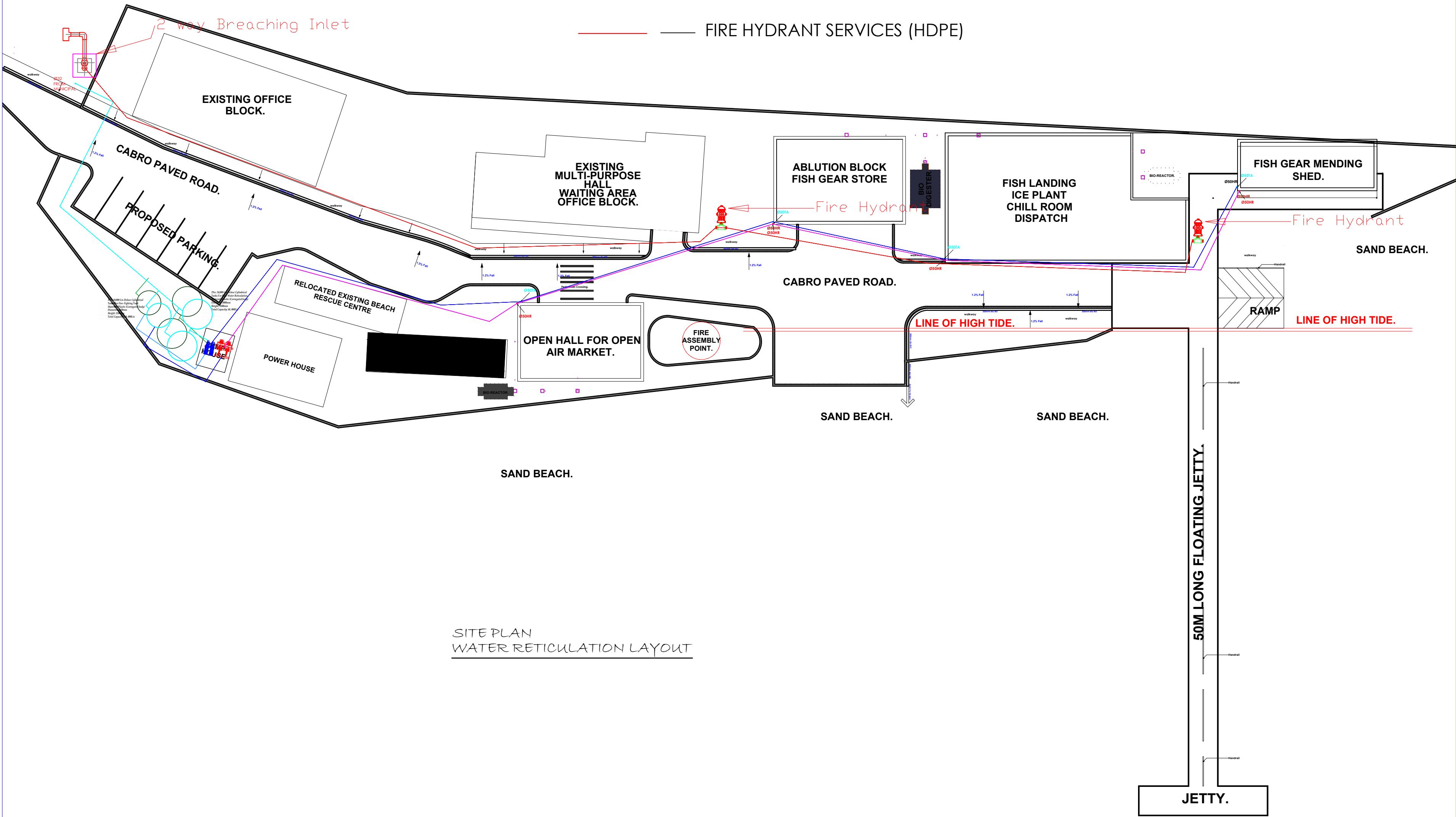
HR — HOSE REEL

TA — TO ABOVE

— Ø50 HOSE REEL SERVICE (GMS CLASS 'B')

— PLUMBING SERVICES (PPR PN 20 MATERIAL)

— FIRE HYDRANT SERVICES (HDPE)



SITE PLAN  
WATER RETICULATION LAYOUT



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PO. BOX 12969-0040,  
NAIROBI, KENYA.

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| REV. No. | Details of Revision |
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PROJECT TITLE:

PROPOSED CONSTRUCTION OF  
KILIFI CENTRAL FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,  
AQUACULTURE & THE BLUE  
ECONOMY

CLIENT'S SIGNATURE:

Sign: \_\_\_\_\_

DRAWING TITLE:

SITE PLAN WATER  
RETICULATION LAYOUT

Dwg. No. 10- 003M- 022

Scale: NTS

Drawn by \_\_\_\_\_ Chek'd By \_\_\_\_\_

Project no.: \_\_\_\_\_ Date: \_\_\_\_\_

010 09/01/2023