



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 MOKOWE FISH
LANDING SITE
Country: Republic of Kenya
Loan No./Credit No/Grant No.: 6540-KE
RFBNo.: KE-MOMBE&MA-LM-2024-010-CW
Issued on: 13-02-2024

VOLUME 4 OF 4
DRAWINGS

1 .CONSTRUCTION OF MUKOWE FISH LANDING SITE

DRAWING NO 09-001 -001

NO.	DRAWING/DOCUMENT	DRAWING NO	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
	PROJECT 01	ARCHITECTURAL DRAWINGS.			
	LIST OF DRAWINGS.				
01	SITE PLAN	09-001-001	A1	PDF/DWG	PROVIDED
	FISH BANDA DRAWINGS				
02	GROUND FLOOR PLAN	09-001-002	A1	PDF/DWG	PROVIDED
03	ROOF LEVEL	09-001-003	A1	PDF/DWG	PROVIDED
04	ROOF SLAB	09-001-004	A1	PDF/DWG	PROVIDED
05	ELEVATION 01 & 02	09-001-005	A1	PDF/DWG	PROVIDED
06	ELEVATION 03 & 04	09-001-006	A1	PDF/DWG	PROVIDED
07	SECTION 01	09-001-007	A1	PDF/DWG	PROVIDED
08	3D PERSPECTIVES	09-001-008	A1	PDF/DWG	PROVIDED
	ABLUTION BLOCK				
09	GROUND FLOOR PLAN	09-001-009	A1	PDF/DWG	PROVIDED
10	ELEVATIONS	09-001-010	A1	PDF/DWG	PROVIDED
11	3D PERSPECTIVES	09-001-011	A1	PDF/DWG	PROVIDED
	SCHEDULES				
12	WINDOW SCHEDULES	09-001-012	A1	PDF/DWG	PROVIDED
13	DOOR SCHEDULES 01	09-001-013	A1	PDF/DWG	PROVIDED
14	DOOR SCHEDULES 02	09-001-014	A1	PDF/DWG	PROVIDED
	DETAILS				
15	GUARD HOUSE	09-001-015	A1	PDF/DWG	PROVIDED
16	BOUNDARY WALL	09-001-016	A1	PDF/DWG	PROVIDED
17	PUMP HOUSE	09-001-017	A1	PDF/DWG	PROVIDED
18	POWER HOUSE 01	09-001-018	A1	PDF/DWG	PROVIDED
19	POWER HOUSE 02	09-001-019	A1	PDF/DWG	PROVIDED

NOTES

GENERAL
+All dimensions are shown in mm unless otherwise specified.
+Drawings are not to be scaled. Only figured dimensions to be used.
+The contractor must check and verify all dimensions on site before commencement of any work.

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

CIVIL WORKS
+All soil under slabs and all around external foundations to be treated with anti- termite pesticide AND should be executed bylicensed and duly registered sub contractor.
+Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
+All levels for sewer and road works must be approved by the engineer before work commences.

STRUCTURAL
+This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
+Concrete to be class 20/20 (1:2:4).
+Steel reinforcement bar to be: "Y" – high tensile steel to B.S 4461.
+ "R" – Round mild steel to B.S 449.
+All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
+All timber to preservative treated in accordance with KS 02 914:1982.
+Depth of the foundation to be determined on site to S.E's approval.

MECHANICAL
+Pipe dimensions are in mm.
+Cold water device pipes steel, with class B to B.S 1387.
+Draining pipe above ground shall have grey while those below ground shall be upvc golden brown.
+All underground foul and waste drain pipes shall be upvc to comply.
+All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
+The storm water pipe to comply with BS 556.
+Minimum slope in the drain to be 1%.
+All testing of pipes must be completed before plastering.

ELECTRICAL
+All conduits must be laid before plastering.
+General conditions of contract for sub contract works.
+Government electrical specification number 1.
+Government electrical specification number 2.
+Electrical act and rules made there under.
+The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
+Kenya power and lighting Co. Ltd.

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

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
ic	inspection chamber
rcc	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
wc	water closet
shw	shower
ce	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject :

MUKOWE FISH LANDING SITE

Consultancy :

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

Drawn by:
CHRIS NGARE
B. Arch. (Hons)

Checked by :
F. TUNDULI
B. Arch. (Hons)
.M. Arch.
(reg. No.A1552)

Checked by :
J. MOMANYI
B. Arch. (Hons)
.M. Arch.
(reg. No.A1122)

Date:JAN 2024 Drawing No .

Scale 1:100

Mukowe Fish landing Site

Site Plan



NOTES

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- CONSTRUCTION**
- Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
 - All slab at grade to be poured on 100gauge polythene 50mm stone dust blinding on compacted hardcore.
 - All soils under slab and around external foundation to be treated for termite control.
 - Window sills must be finished before internal plastering.
- CIVIL WORKS**
- All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub-contractor.
 - Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
 - All levels for sewer and road works must be approved by the engineer before work commences.
- STRUCTURAL**
- This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
 - Concrete to be class 20/20 (1:2:4).
 - Steel reinforcement bar to be: "Y" = high tensile steel to B.S.4461.
 - Steel reinforcement bar to be: "R" = Round mild steel to B.S.449.
 - All timber to be sawn cypress G.S grade to KS 02-771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
 - All timber to preservative treated in accordance with KS 02-914:1982.
 - Depth of the foundation to be determined on site to S.E.'s approval.
- MECHANICAL**
- Pipe dimensions are in mm.
 - Cold water device pipes steel, with class B to B.S.1387.
 - Draining pipe above ground shall have grey while those below ground shall be upvc golden brown.
 - All underground foul and waste drain pipes shall be upvc to comply.
 - All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
 - The storm water pipe to comply with BS 556.
 - Minimum slope in the drain to be 1%.
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- ELECTRICAL**
- All conduits must be laid before plastering.
 - General conditions of contract for sub contract works.
 - Government electrical specification number 1.
 - Government electrical specification number 2.
 - Electrical act and rules made there under.
 - The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
 - Kenya power and lighting Co. Ltd.
- FIRE**
- Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - Provide underground water tank with automatic electric booster pump for ring main
 - Provide automatic push button fire alarm system
 - Provide heat and smoke detectors in each room
 - Provide 9kg. dry powder fire extinguishers to ME specifications

Abbreviations	Meaning
syp	soil vent pipe
mh	man hole
ic	inspection chamber
rec	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
wc	water closet
shw	shower
cc	centre to centre
st. eng./S.E.	structural engineer
dpc	damp proof course-under all grt. ft. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

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Project : PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT

Plot L . R. No.:

Location : MUKOWE,LAMU

Client :STATE DEPARTMENT FOR FISHERIES AQUACULTURE AND THE BLUE ECONOMY

Signature :

Subject : MUKOWE FISH LANDING SITE

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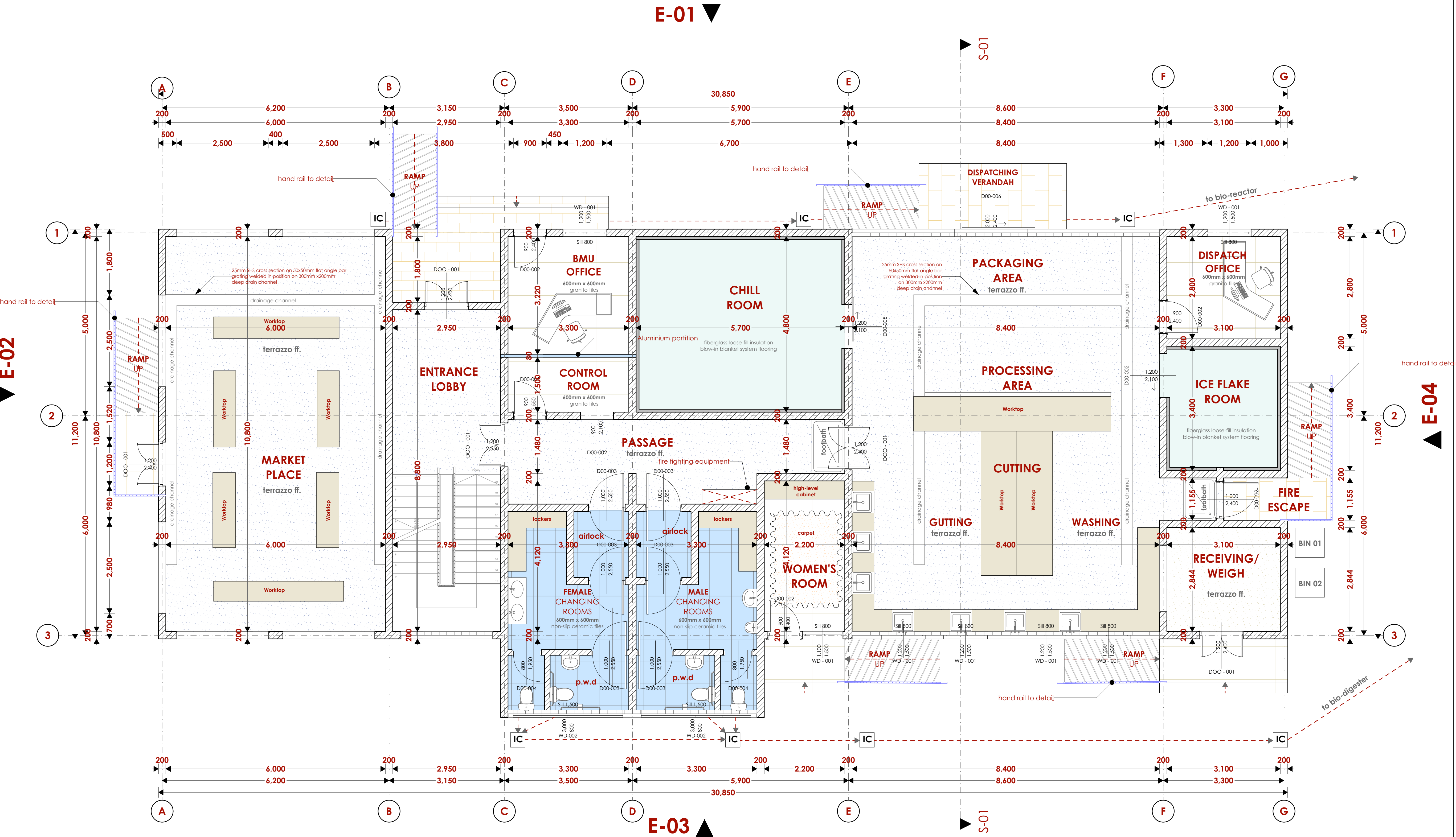
Drawn by: CHRISNGARE B. Arch. (Hons)	Checked by: - F. TUNDULI B. Arch. (Hons) M. Arch. (reg. No.A1552)	Checked by: - J. MOMANYI B. Arch. (Hons) M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No. 09-001-001

Scale 1:100

Mukowe Fish landing Site

Fish Banda-Ground Floor



NOTES

- GENERAL**
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- CONSTRUCTION**
- Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
 - All slab at grade to be poured on 1000gauge polythene 50mm stone dust blinding on compacted hardcore.
 - All soils under slab and around external foundation to be treated for termite control.
 - Window sills must be finished before internal plastering.
- CIVIL WORKS**
- All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor.
 - Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
 - All levels for sewer and road works must be approved by the engineer before work commences.
- STRUCTURAL**
- This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
 - Concrete to be class 20/20 (1:2:4).
 - Steel reinforcement bar to be: "Y" = high tensile steel to B.S.4461.
 - "R" = Round mild steel to B.S.449.
 - All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
 - All timber to preservative treated in accordance with KS 02 914:1982.
 - Depth of the foundation to be determined on site to S.E's approval.
- MECHANICAL**
- Pipe dimensions are in mm.
 - Cold water device pipes steel, with class B to B.S.1387.
 - Draining pipe above ground shall have grey while those below ground shall be upvc golden brown.
 - All underground foul and waste drain pipes shall be upvc to comply.
 - All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
 - The storm water pipe to comply with BS 556.
 - Minimum slope in the drain to be 1%.
 - All testing of pipes must be completed before plastering.
- ELECTRICAL**
- All conduits must be laid before plastering.
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 - Government electrical specification number 1.
 - Government electrical specification number 2.
 - Electrical act and rules made there under.
 - The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
 - Kenya power and lighting Co. Ltd.
- FIRE**
- Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - Provide underground water tank with automatic electric booster pump for ring main
 - Provide automatic push button fire alarm system
 - Provide heat and smoke detectors in each room
 - Provide 9kg. dry powder fire extinguishers to MEI specifications

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
ic	inspection chamber
rec	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
wc	water closet
shw	shower
cc	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. ft. walling
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

Project : PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT

Plot L. R. No.:

Location : MUKOWE,LAMU

Client :STATE DEPARTMENT FOR FISHERIES AQUACULTURE AND THE BLUE ECONOMY

Signature :
Subject :

MUKOWE FISH LANDING SITE

Consultancy :
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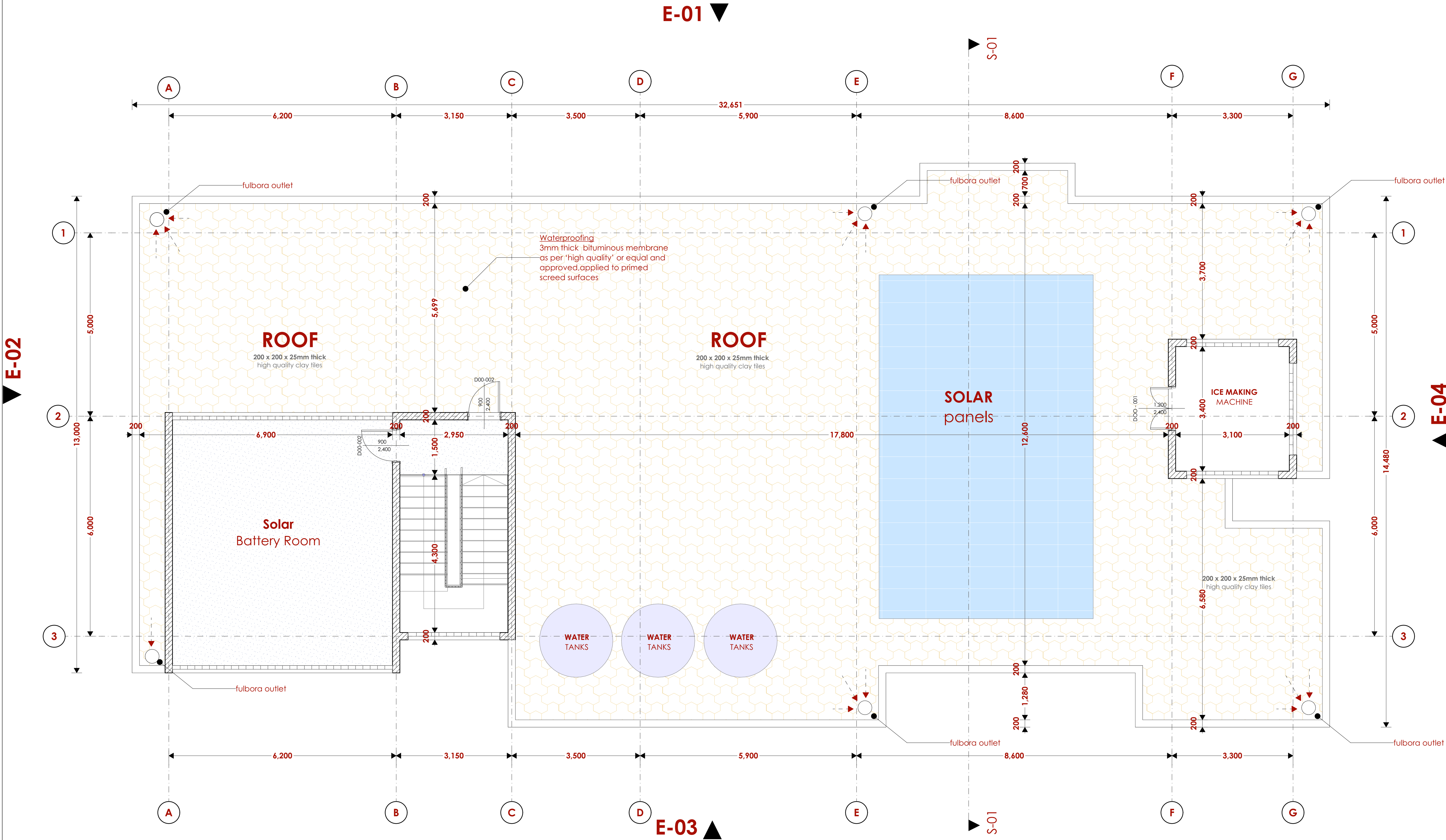
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Date:JAN 2024 Drawing No. 09-001-002

Scale 1:100

Mukowe Fish landing Site

Fish Banda - Roof Level



NOTES

GENERAL

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CONSTRUCTION

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

CIVIL WORKS

- +All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor.
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STRUCTURAL

- +This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
- +Concrete to be class 20/20 (1:2:4).
- +Steel reinforcement bar to be: "Y" = high tensile steel to B.S.4461.
- + "R" = Round mild steel to B.S.449.
- +All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
- +All timber to preservative treated in accordance with KS 02 914:1982.
- +Depth of the foundation to be determined on site to S.E's approval.

MECHANICAL

- +Pipe dimensions are in mm.
- +Cold water device pipes steel, with class B to B.S.1387.
- +Draining pipe above ground shall have grey while those below ground shall be upvc golden brown.
- +All underground foul and waste drain pipes shall be upvc to comply.
- +All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
- +The storm water pipe to comply with BS 556.
- +Minimum slope in the drain to be 1%.
- +All testing of pipes must be completed before plastering.

ELECTRICAL

- +All conduits must be laid before plastering.
- +General conditions of contract for sub contract works.
- +Government electrical specification number 1.
- +Government electrical specification number 2.
- +Electrical act and rules made there under.
- +The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
- +Kenya power and lighting Co. Ltd.

FIRE

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

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
ic	inspection chamber
rcc	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
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shw	shower
cc	centre to centre
st. eng./S.E.	structural engineer
dpc	damp proof course-under all grd. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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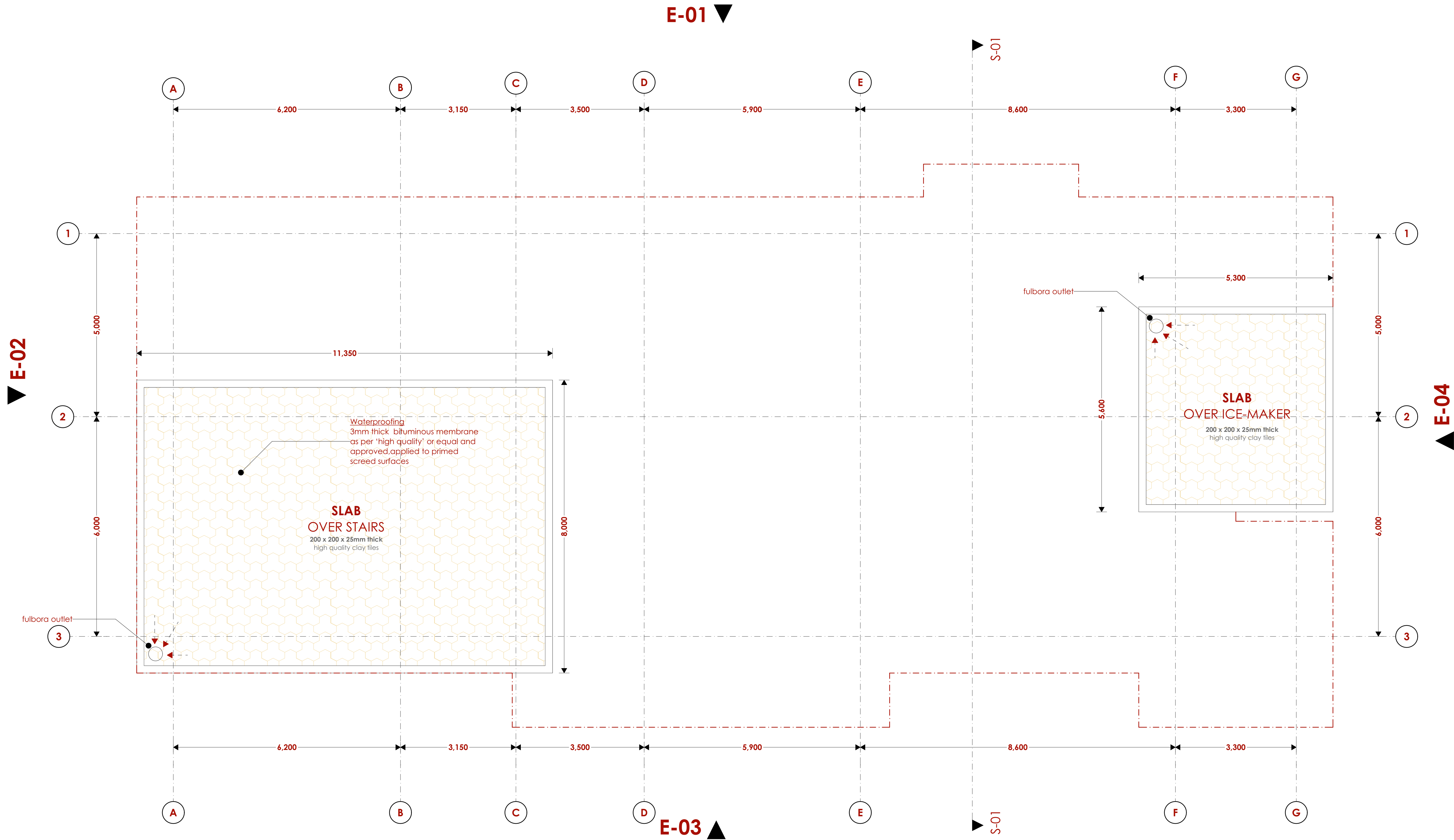
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Date:JAN 2024 Drawing No. **09-001-003**

Scale 1:100

Mukowe Fish landing Site

Fish Banda-Roof Slab



NOTES

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CONSTRUCTION

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

CIVIL WORKS

- *All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor.
- *Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
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- *Depth of the foundation to be determined on site to S.E's approval.

MECHANICAL

- *Pipe dimensions are in mm.
- *Cold water device pipes steel, with class B to B.S.1387.
- *Draining pipe above ground shall apply grey while those below ground shall be upvc golden brown.
- *All underground foul and waste drain pipes shall be upvc to comply.
- *All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
- *The storm water pipe to comply with BS 556.
- *Minimum slope in the drain to be 1%.
- *All testing of pipes must be completed before plastering.

ELECTRICAL

- *All conduits must be laid before plastering.
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FIRE

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

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
lc	inspection chamber
rec	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
wc	water closet
shw	shower
cc	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
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pv	permanent ventilation-on all windows & doors except on internal toilet doors.

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

Plot L. R. No.:

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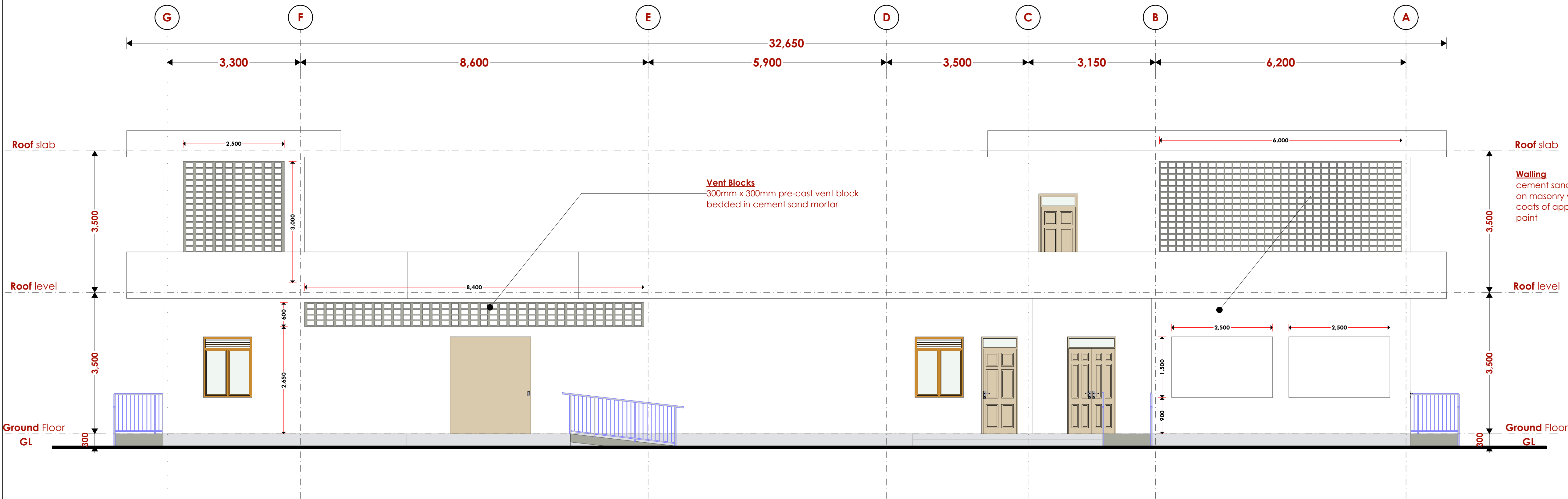
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Date: JAN 2024 Drawing No. **09-001-004**

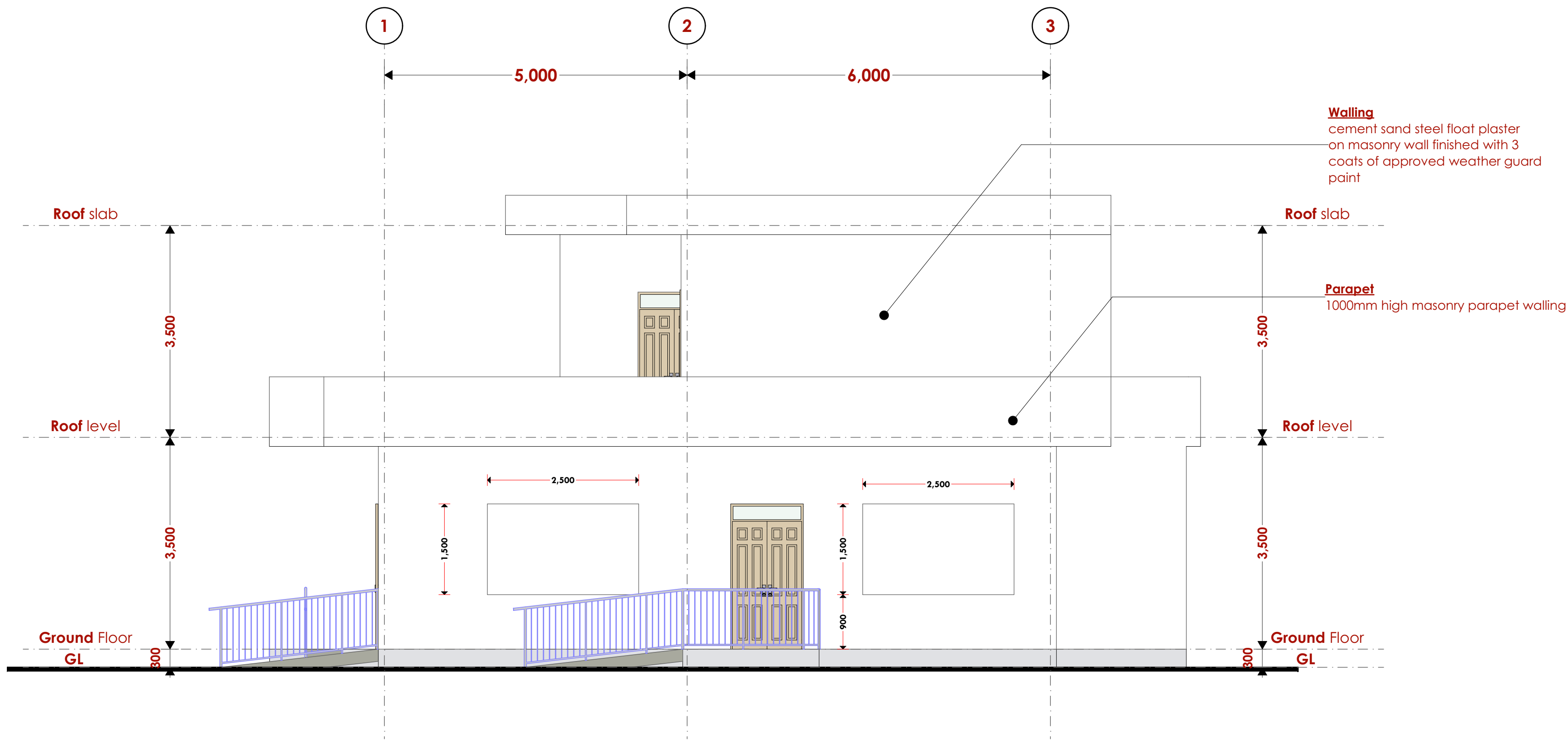
Scale 1:100

Mukowe Fish landing Site

Fish Banda-Elevations



Elevations 01



Elevations 02

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- Provide underground water tank with automatic electric booster pump for ring main
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- Provide 9kg. dry powder fire extinguishers to MEI specifications

Abbreviations	Meaning
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No	REVISIONS	DATE	SIGNATURE

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

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P.O BOX 12969-0040 NAIROBI
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Website :www.arprimconsultants.com

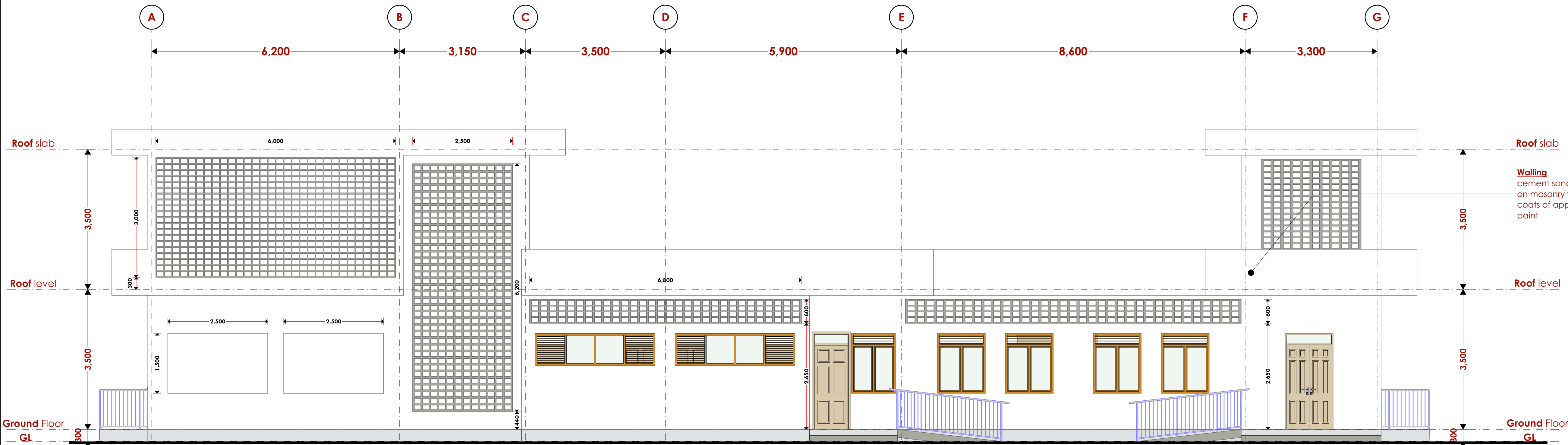
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Date:JAN 2024 Drawing No. **09-001-005**

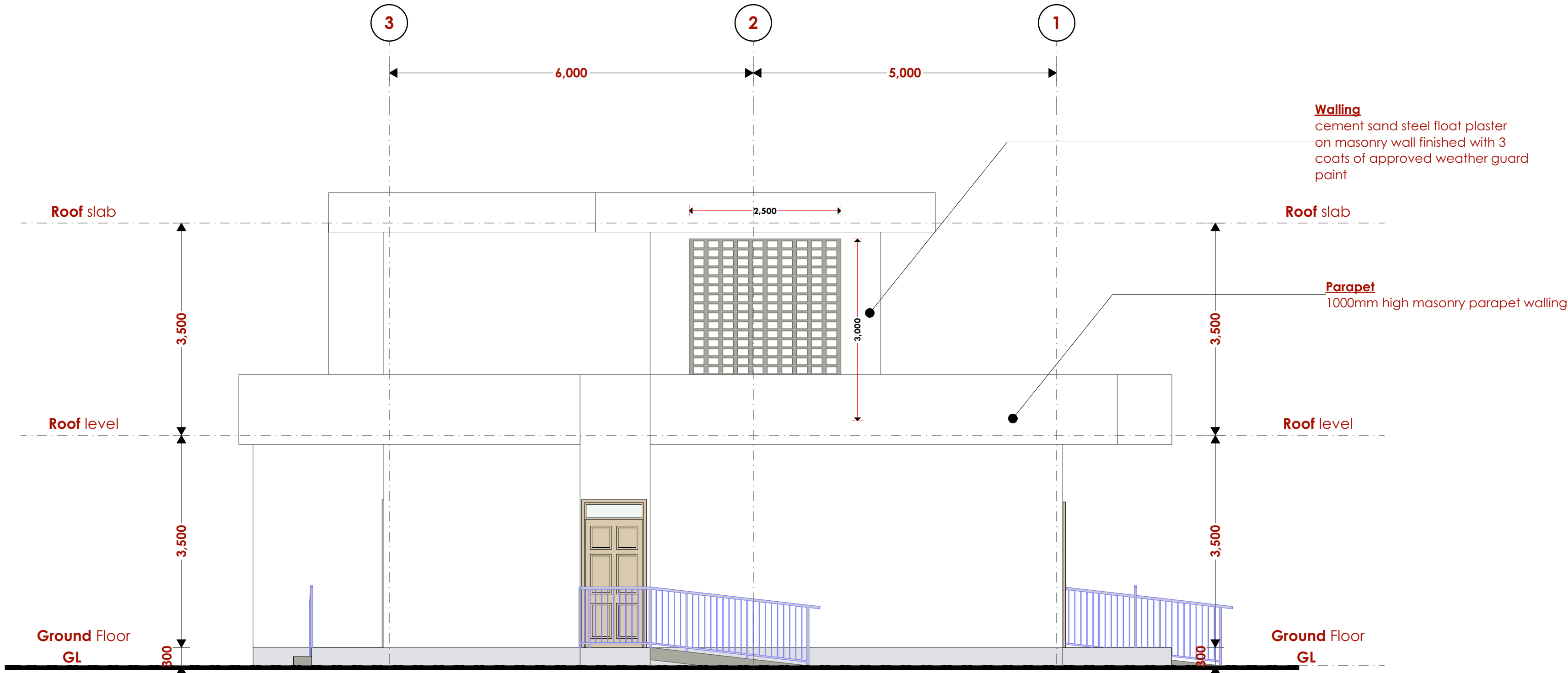
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Mukowe Fish landing Site

Fish Banda- Elevations



Elevation 03



Elevation 04

NOTES

GENERAL

- *All dimensions are shown in mm unless otherwise specified.
- *Drawings are not to be scaled. Only figured dimensions to be used.
- *The contractor must check and verify all dimensions on site before commencement of any work.

CONSTRUCTION

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

CIVIL WORKS

- *All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor.
- *Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
- *All levels for sewer and road works must be approved by the engineer before work commences.

STRUCTURAL

- *This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
- *Concrete to be class 20/20 (1:2:4).
- *Steel reinforcement bar to be: "Y" = high tensile steel to B.S 4461.
- *"R" = Round mild steel to B.S 449.
- *All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
- *All timber to preservative treated in accordance with KS 02 914:1982.
- *Depth of the foundation to be determined on site to S.E's approval.

MECHANICAL

- *Pipe dimensions are in mm.
- *Cold water device pipes steel, with class B to B.S 1387.
- *Draining pipe above ground shall apply grey while those below ground shall be upvc golden brown.
- *All underground foul and waste drain pipes shall be upvc to comply.
- *All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
- *The storm water pipe to comply with BS 556.
- *Minimum slope in the drain to be 1%.
- *All testing of pipes must be completed before plastering.

ELECTRICAL

- *All conduits must be laid before plastering.
- *General conditions of contract for sub contract works.
- *Government electrical specification number 1.
- *Government electrical specification number 2.
- *Electrical act and rules made here under.
- *The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
- *Kenya power and lighting Co. Ltd.

FIRE

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

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
ic	inspection chamber
rec	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
we	water closet
shw	shower
cc	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject : **MUKOWE FISH LANDING SITE**

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

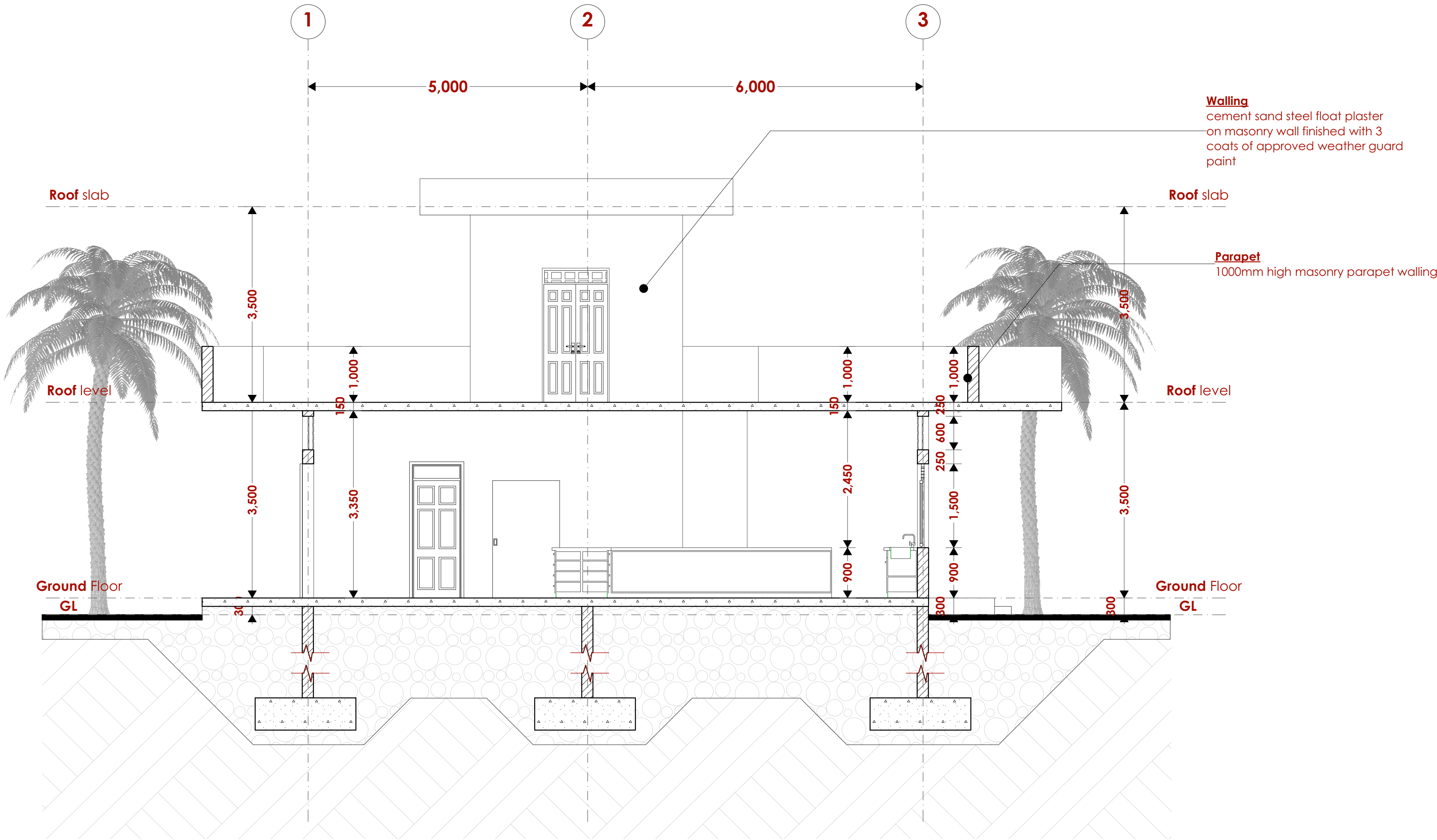
Drawn by: CHRISNGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No. **09-001-006**

Scale 1:100

Mukowe Fish landing Site

Fish Banda-Section 01



NOTES

GENERAL

- All dimensions are shown in mm unless otherwise specified.
- Drawings are not to be scaled. Only figured dimensions to be used.
- The contractor must check and verify all dimensions on site before commencement of any work.

CONSTRUCTION

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

CIVIL WORKS

- All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor.
- Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
- All levels for sewer and road works must be approved by the engineer before work commences.

STRUCTURAL

- This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
- Concrete to be class 20/20 (1:2:4).
- Steel reinforcement bar to be: "Y" = high tensile steel to B.S 4461.
- "R" = Round mild steel to B.S 449.
- All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
- All timber to preservative treated in accordance with KS 02 914:1982.
- Depth of the foundation to be determined on site to S.E's approval.

MECHANICAL

- Pipe dimensions are in mm.
- Cold water device pipes steel, with class B to B.S 1387.
- Draining pipe above ground shall have grey while those below ground shall be upvc golden brown.
- All underground foul and waste drain pipes shall be upvc to comply.
- All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
- The storm water pipe to comply with BS 556.
- Minimum slope in the drain to be 1%.
- All testing of pipes must be completed before plastering.

ELECTRICAL

- All conduits must be laid before plastering.
- General conditions of contract for sub contract works.
- Government electrical specification number 1.
- Government electrical specification number 2.
- Electrical act and rules made there under.
- The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
- Kenya power and lighting Co. Ltd.

FIRE

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

Abbreviations	Meaning
syp	soil vent pipe
mh	man hole
ic	inspection chamber
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gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
we	water closet
shw	shower
cc	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject :

MUKOWE FISH LANDING SITE

Consultancy :

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

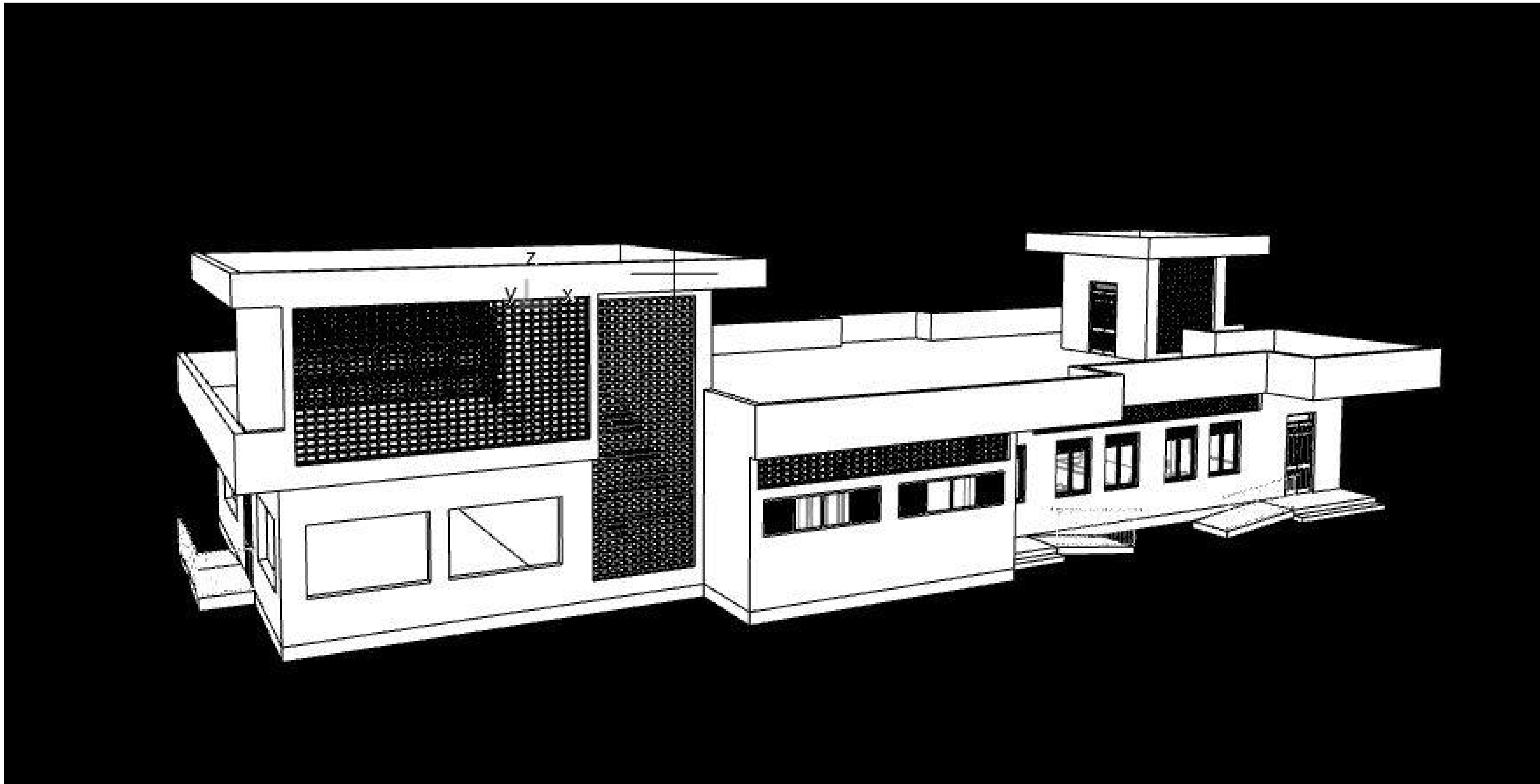
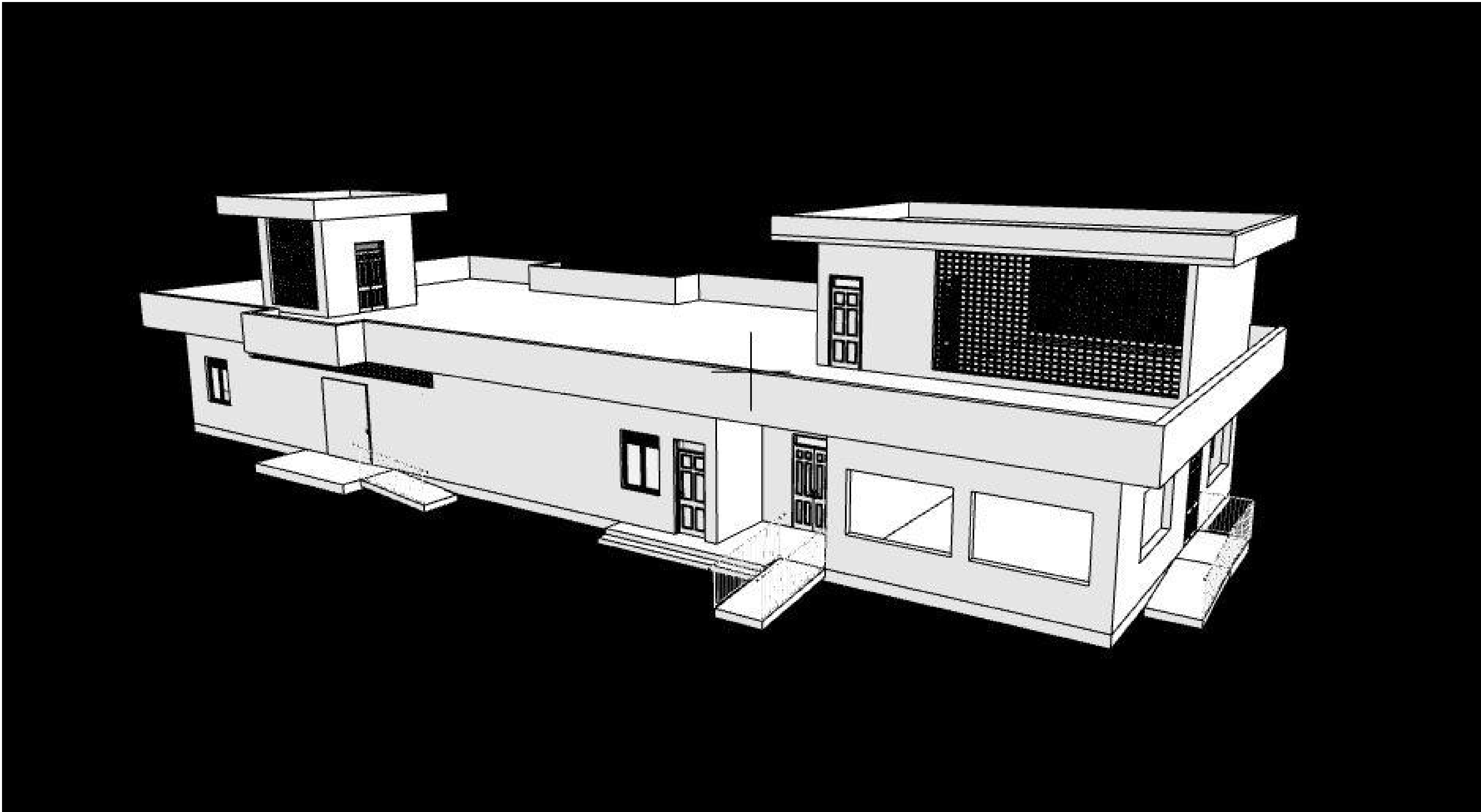
Drawn by: CHRIS NGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No. **09-001-007**

Scale 1:100

Mukowe Fish landing Site

Fish Banda-3d Perspectives



NOTES

- GENERAL**
- +All dimensions are shown in mm unless otherwise specified.
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- CONSTRUCTION**
- +Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
 - +All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
 - +All soils under slab and around external foundation to be treated for termite control.
 - +Window sills must be finished before internal plastering.
- CIVIL WORKS**
- +All soil under slabs and all around external foundations to be treated with anti- termite pesticide AND should be executed by/licensed and duly registered sub contractor.
 - +Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
 - +All levels for sewer and road works must be approved by the engineer before work commences.
- STRUCTURAL**
- +This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
 - +Concrete to be class 20/20 (1:2:4).
 - +Steel reinforcement bar to be: "Y" = high tensile steel to B.S 4461.
 - + "R" = Round mild steel to B.S 449.
 - +All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
 - +All timber to preservative treated in accordance with KS 02 914:1982.
 - +Depth of the foundation to be determined on site to S.E's approval.
- MECHANICAL**
- +Pipe dimensions are in mm.
 - +Cold water device pipes steel, with class B to B.S 1387.
 - +Draining pipe above ground shall above grey while those below ground shall be upvc golden brown.
 - +All underground foul and waste drain pipes shall be upvc to comply.
 - +All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
 - +The storm water pipe to comply with BS 556.
 - +Minimum slope in the drain to be 1%.
 - +All testing of pipes must be completed before plastering.
- ELECTRICAL**
- +All conduits must be laid before plastering.
 - +General conditions of contract for sub contract works.
 - +Government electrical specification number 1.
 - +Government electrical specification number 2.
 - +Electrical act and rules made there under.
 - +The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
 - +Kenya power and lighting Co. Ltd.
- FIRE**
- +Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - + Provide underground water tank with automatic electric booster pump for ring main
 - + Provide automatic push button fire alarm system
 - + Provide heat and smoke detectors in each room
 - + Provide 9kg. dry powder fire extinguishers to MEI specifications

Abbreviations	Meaning
syp	soil vent pipe
mh	man hole
ic	inspection chamber
rcc	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
wc	water closet
shw	shower
ce	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject : **MUKOWE FISH LANDING SITE**

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

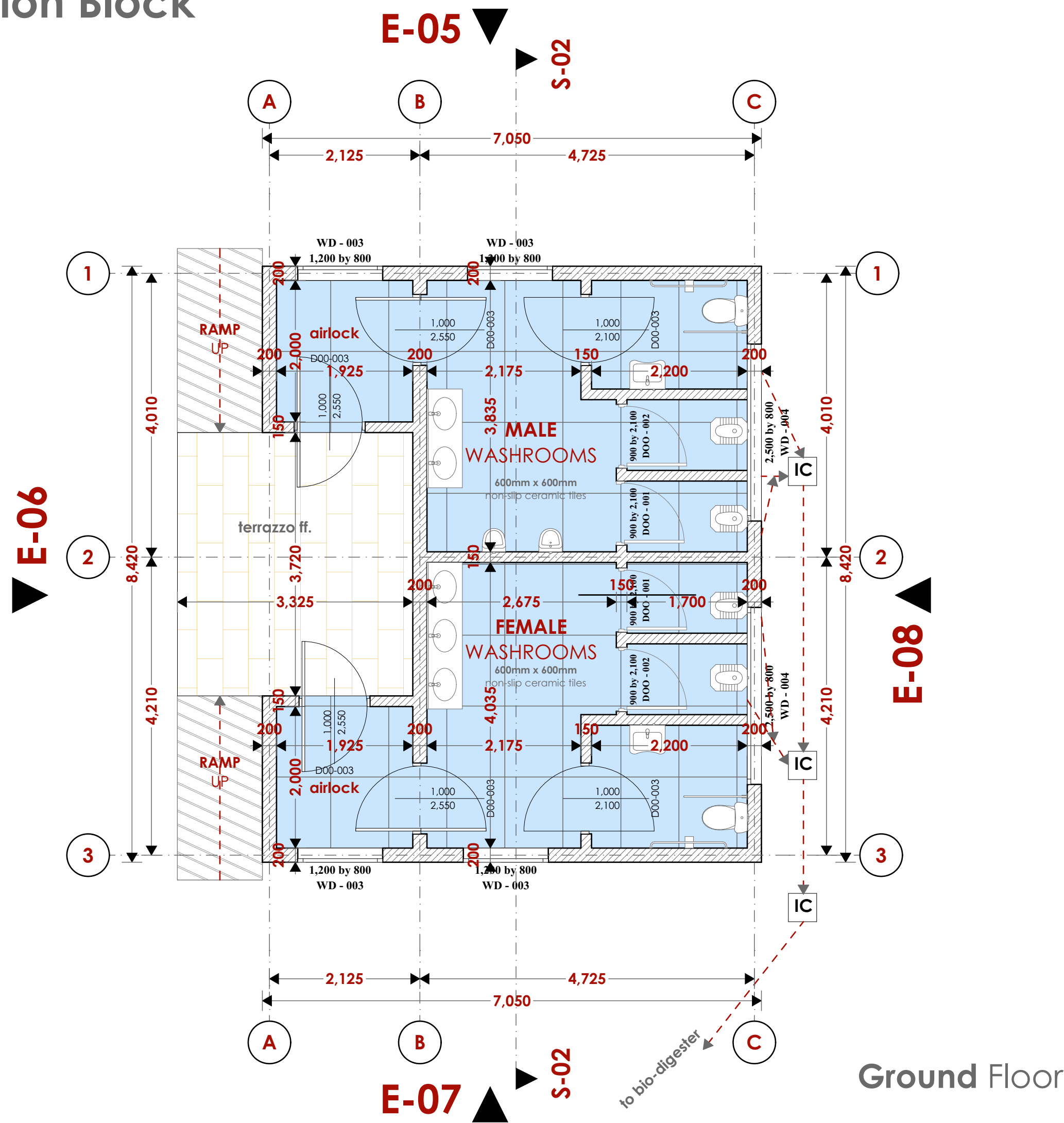
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Date:JAN 2024 Drawing No. **09-001-008**

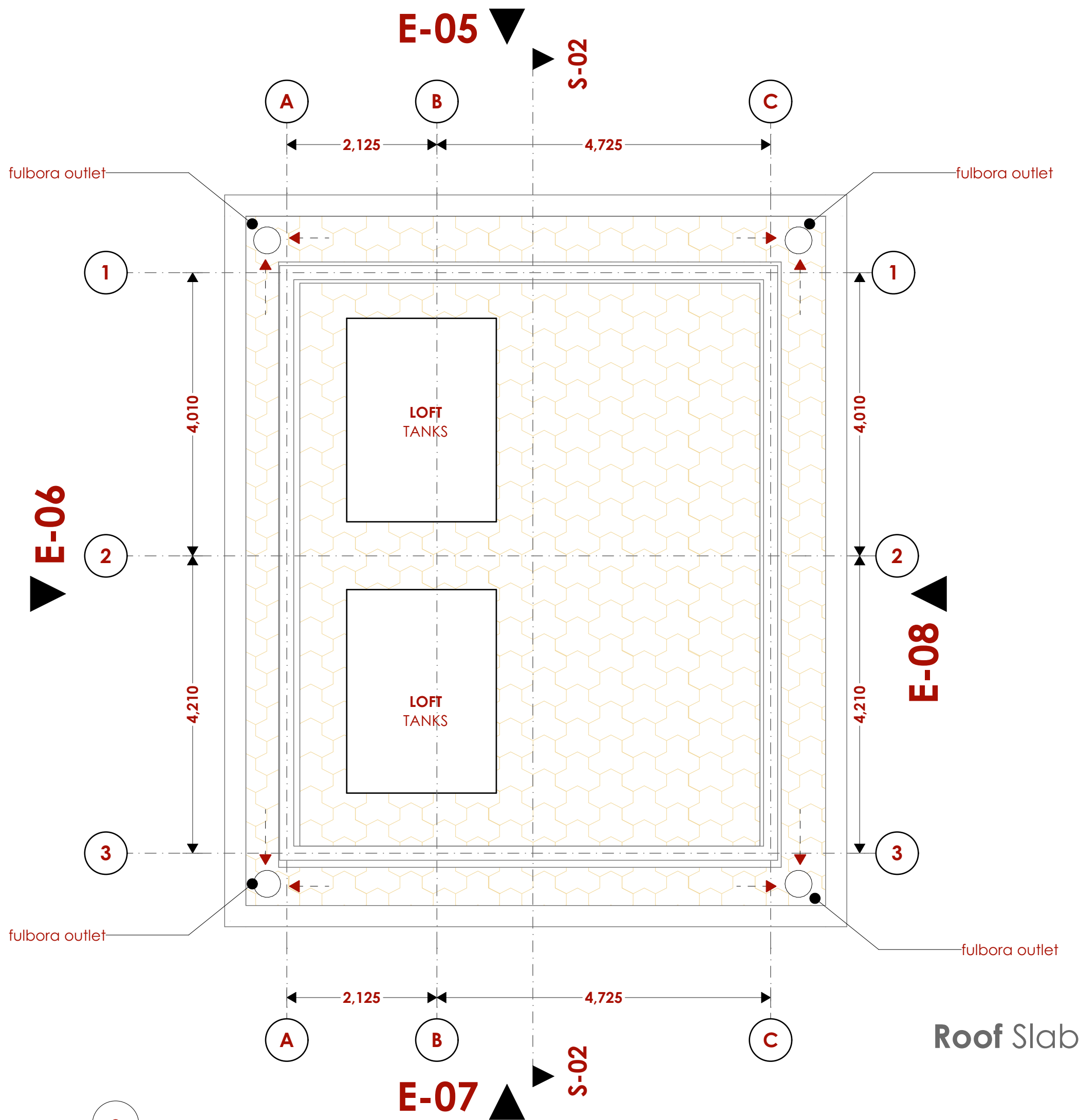
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Mukowe Fish landing Site

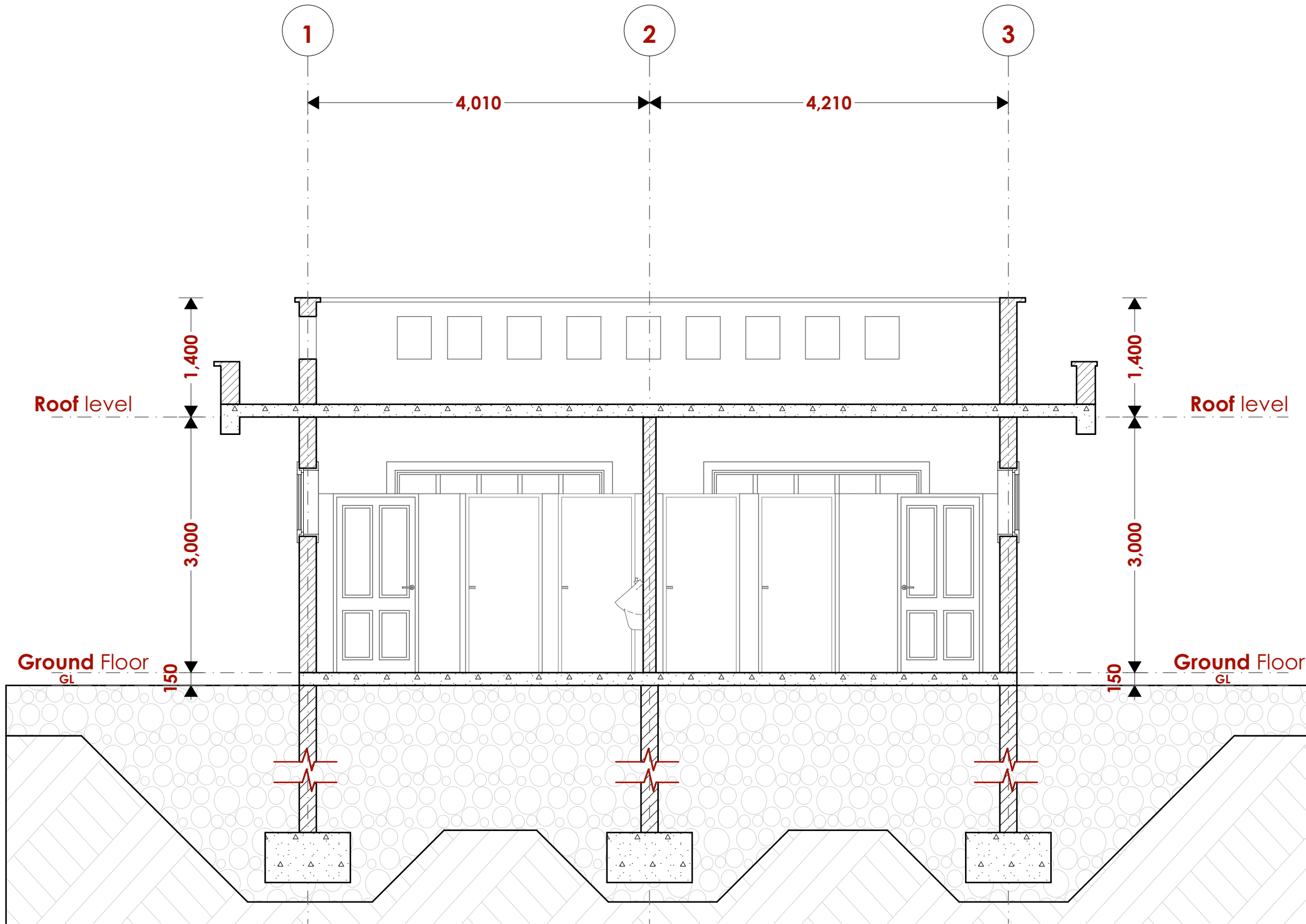
Ablution Block



Ground Floor



Roof Slab



Section 02

NOTES

- GENERAL**
- *All dimensions are shown in mm unless otherwise specified.
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 - *The contractor must check and verify all dimensions on site before commencement of any work.
- CONSTRUCTION**
- *Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
 - *All slabs at grade to be poured on 100gauge polythene 50mm stone dust blinding on compacted hardcore.
 - *All slabs under slab and around external foundation to be treated for termite control.
 - *Window sills must be finished before internal plastering.
- CIVIL WORKS**
- *All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub-contractor.
 - *Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
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- STRUCTURAL**
- *This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
 - *Concrete to be class 20/20 (1:2:4).
 - *Steel reinforcement bar to be: "Y" - high tensile steel to B.S 4461.
 - *"R" - Round mild steel to B.S 449.
 - *All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
 - *All timber to preservative treated in accordance with KS 02 914:1982.
 - *Depth of the foundation to be determined on site to S.E's approval.
- MECHANICAL**
- *Pipe dimensions are in mm.
 - *Cold water device pipes steel, with class B to B.S 1387.
 - *Draining pipe above ground shall give grey while those below ground shall be upvc golden brown.
 - *All underground foul and waste drain pipes shall be upvc to comply.
 - *All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
 - *The storm water pipe to comply with BS 556.
 - *Minimum slope in the drain to be 1%.
 - *All testing of pipes must be completed before plastering.
- ELECTRICAL**
- *All conduits must be laid before plastering.
 - *General conditions of contract for sub contract works.
 - *Government electrical specification number 1.
 - *Government electrical specification number 2.
 - *Electrical act and rules made there under.
 - *The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
 - *Kenya power and lighting Co. Ltd.
- FIRE**
- *Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - *Provide underground water tank with automatic electric booster pump for ring main
 - *Provide automatic push button fire alarm system
 - *Provide heat and smoke detectors in each room
 - *Provide 9kg. dry powder fire extinguishers to ME specifications

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
ic	inspection chamber
rec	reinforced cement concrete
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wc	water closet
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dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature

Subject : **MUKOWE FISH LANDING SITE**

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

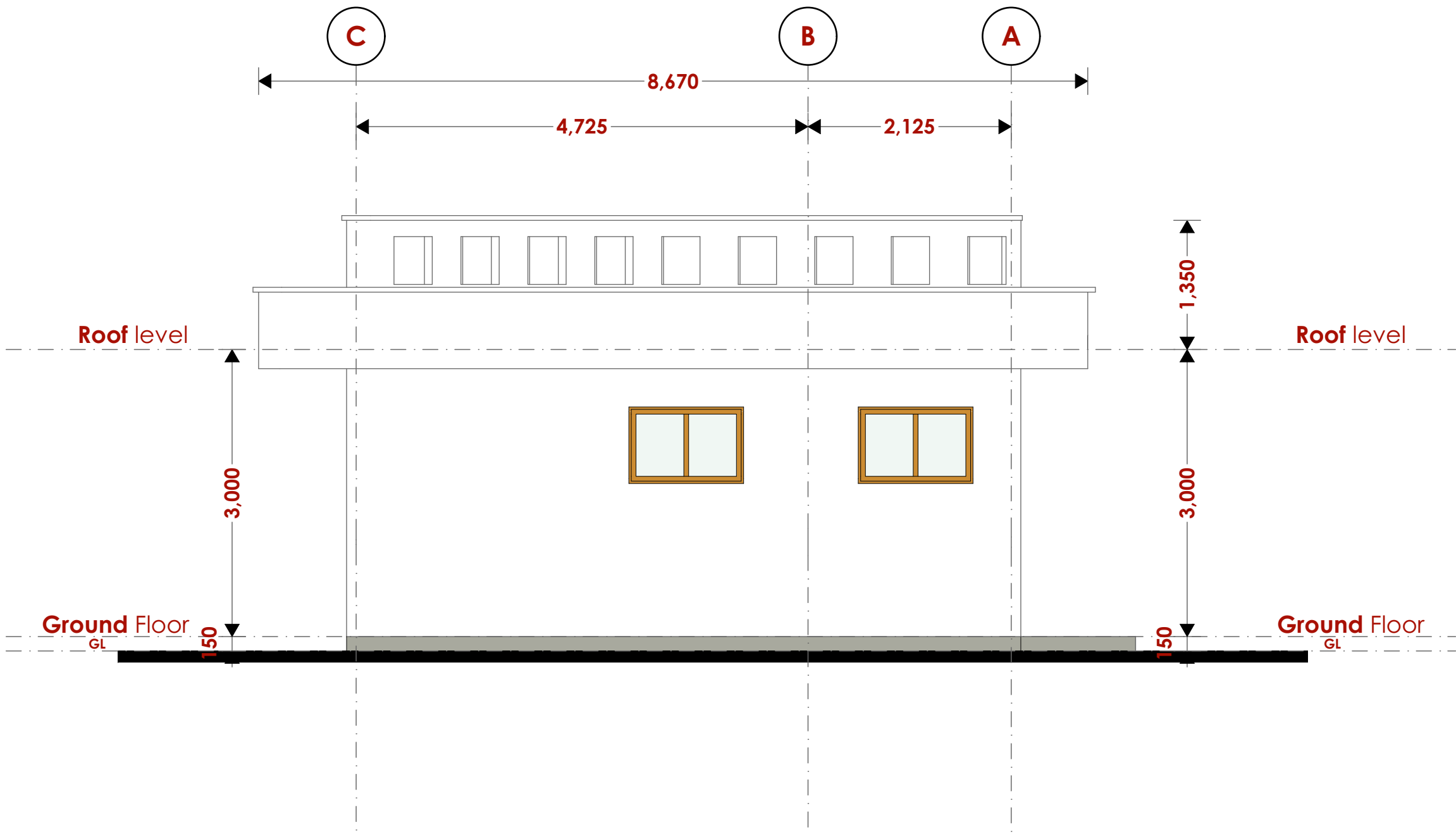
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Date:JAN 2024 Drawing No. **09-001-009**

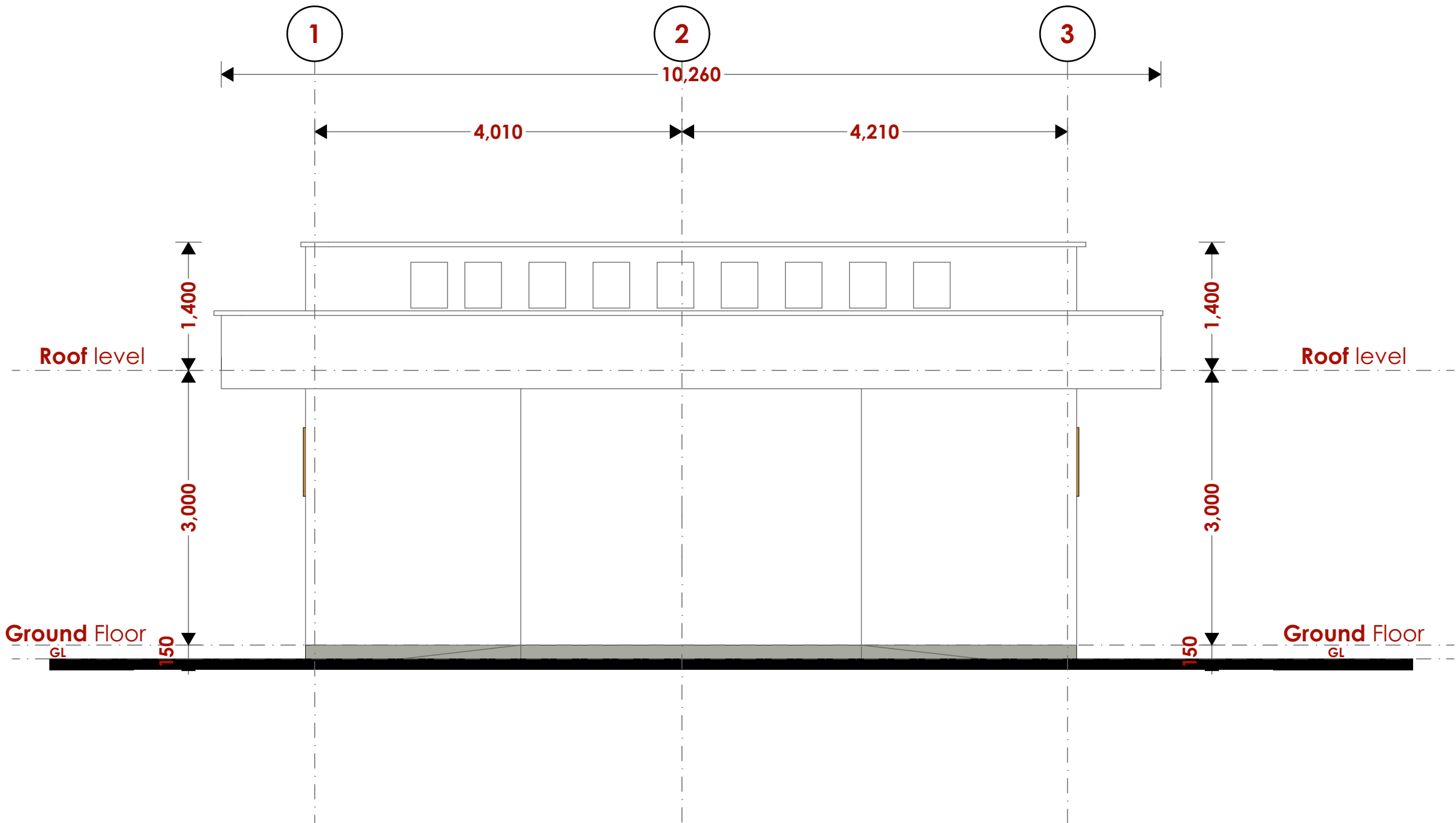
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Mukowe Fish landing Site

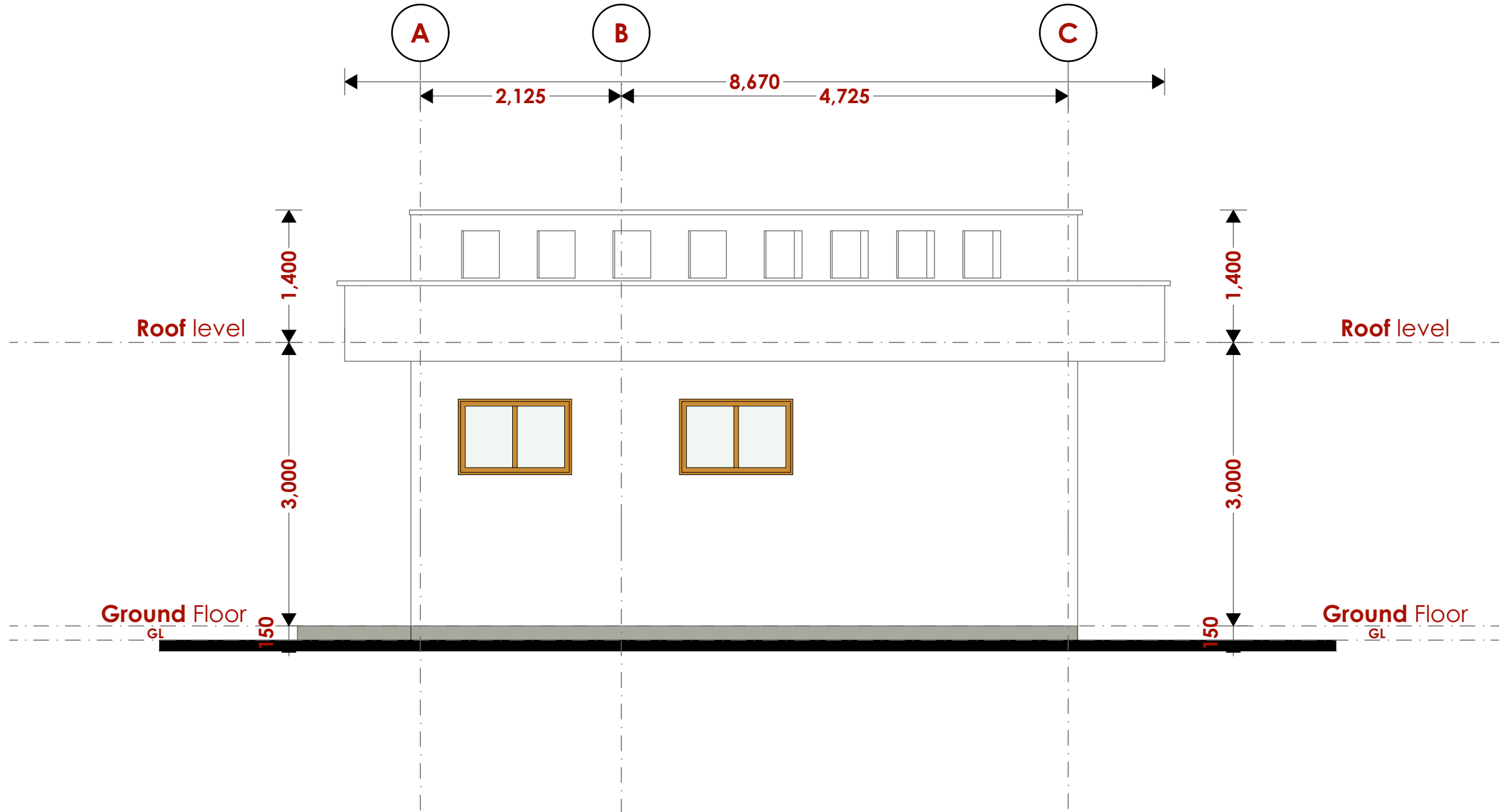
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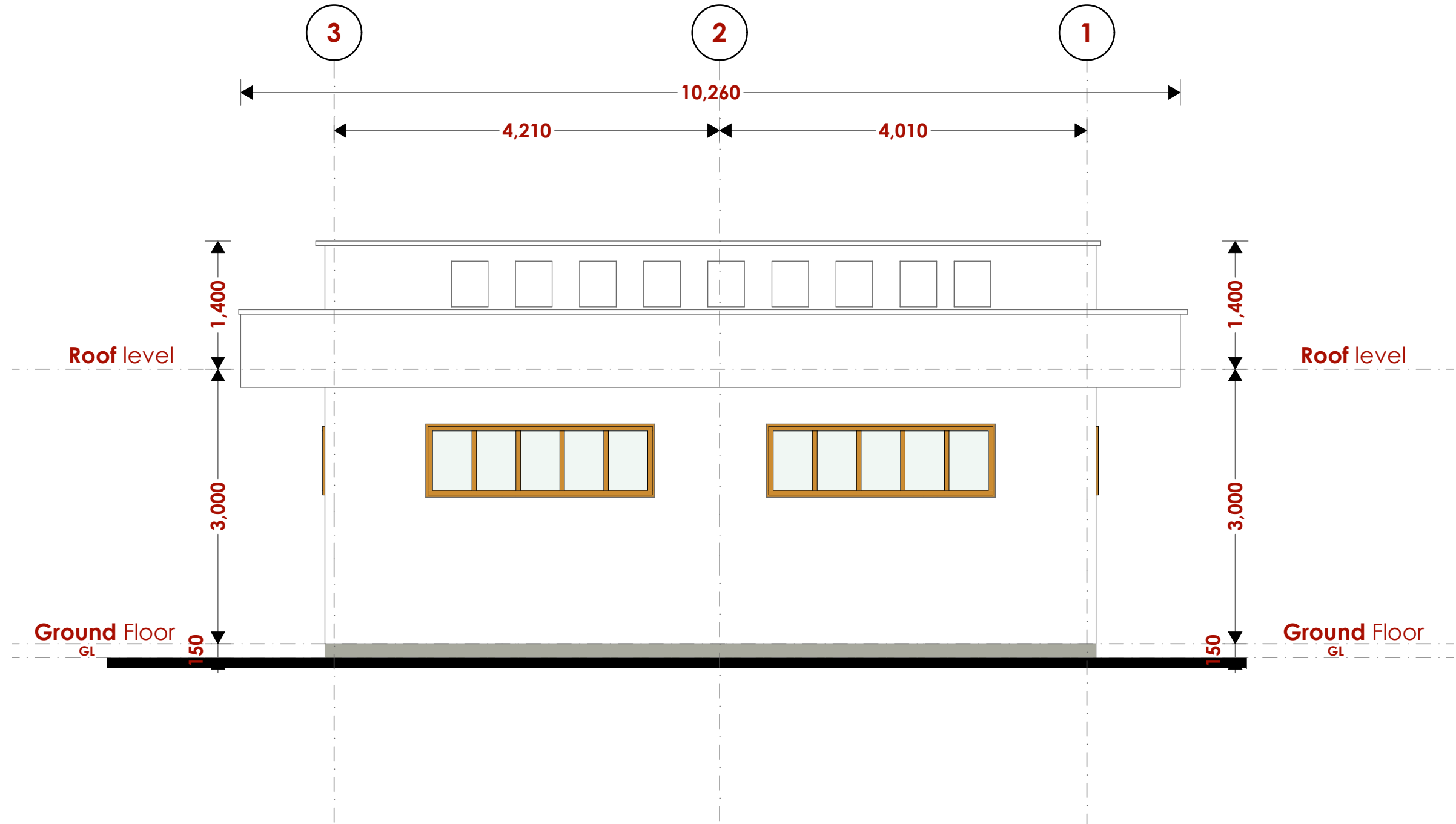
Elevation 05



Elevation 06



Elevation 07



Elevation 08

NOTES

GENERAL

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CONSTRUCTION

- Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
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- Window sills must be finished before internal plastering.

CIVIL WORKS

- All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor.
- Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
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STRUCTURAL

- This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
- Concrete to be class 20/20 (1:2:4).
- Steel reinforcement bar to be: "Y" = high tensile steel to B.S 4461.
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- All timber to preservative treated in accordance with KS 02 914:1982.
- Depth of the foundation to be determined on site to S.E's approval.

MECHANICAL

- Pipe dimensions are in mm.
- Cold water device pipes steel, with class B to B.S 1387.
- Draining pipe above ground shall have grey while those below ground shall be upvc golden brown.
- All underground foul and waste drain pipes shall be upvc to comply.
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- The storm water pipe to comply with BS 556.
- Minimum slope in the drain to be 1%.
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ELECTRICAL

- All conduits must be laid before plastering.
- General conditions of contract for sub contract works.
- Government electrical specification number 1.
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- Electrical act and rules made there under.
- The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
- Kenya power and lighting Co. Ltd.

FIRE

- Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
- Provide underground water tank with automatic electric booster pump for ring main
- Provide automatic push button fire alarm system
- Provide heat and smoke detectors in each room
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Abbreviations	Meaning
syp	soil vent pipe
mh	man hole
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pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject : **MUKOWE FISH LANDING SITE**

Consultancy :
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TEL: 020-884312/8
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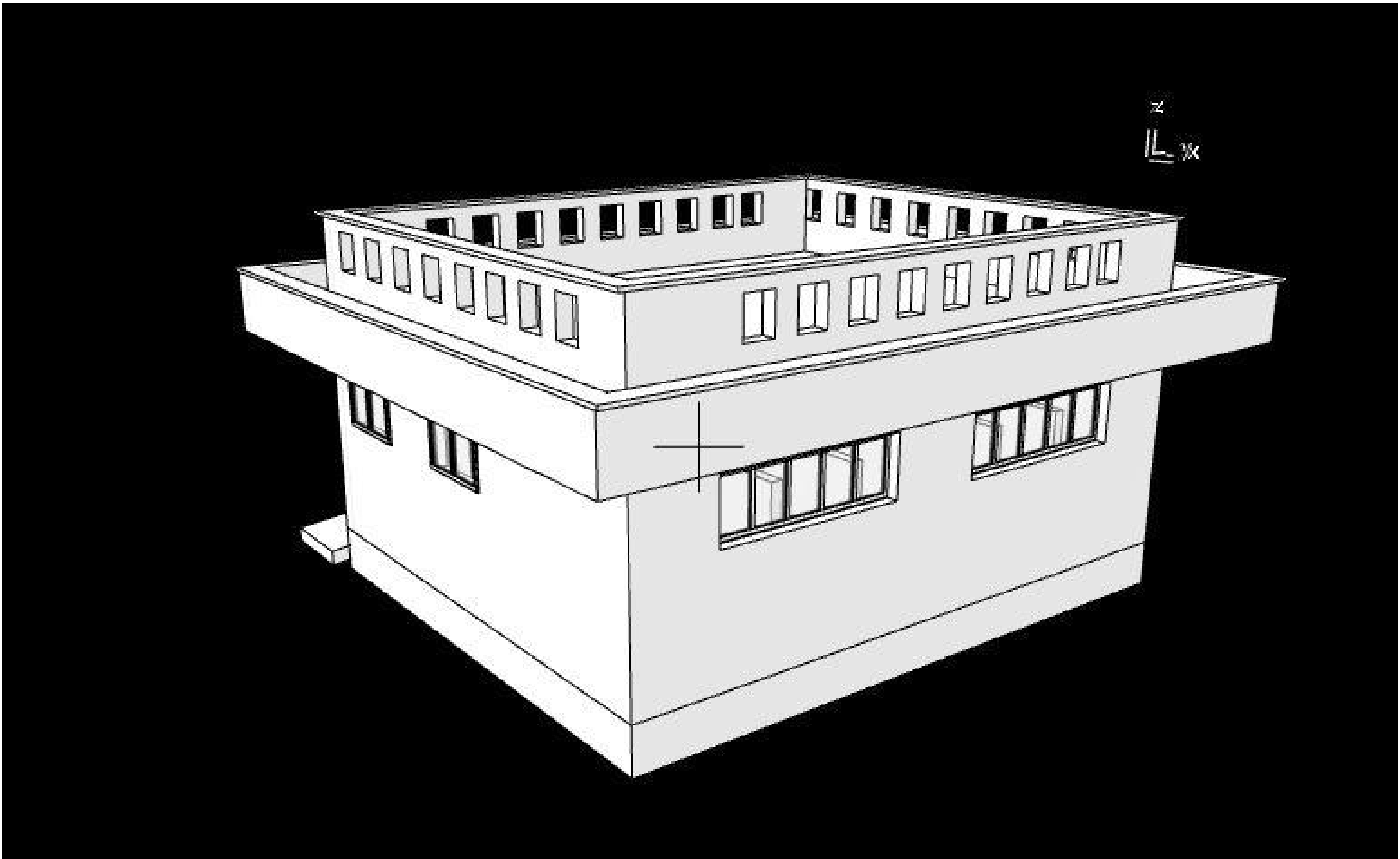
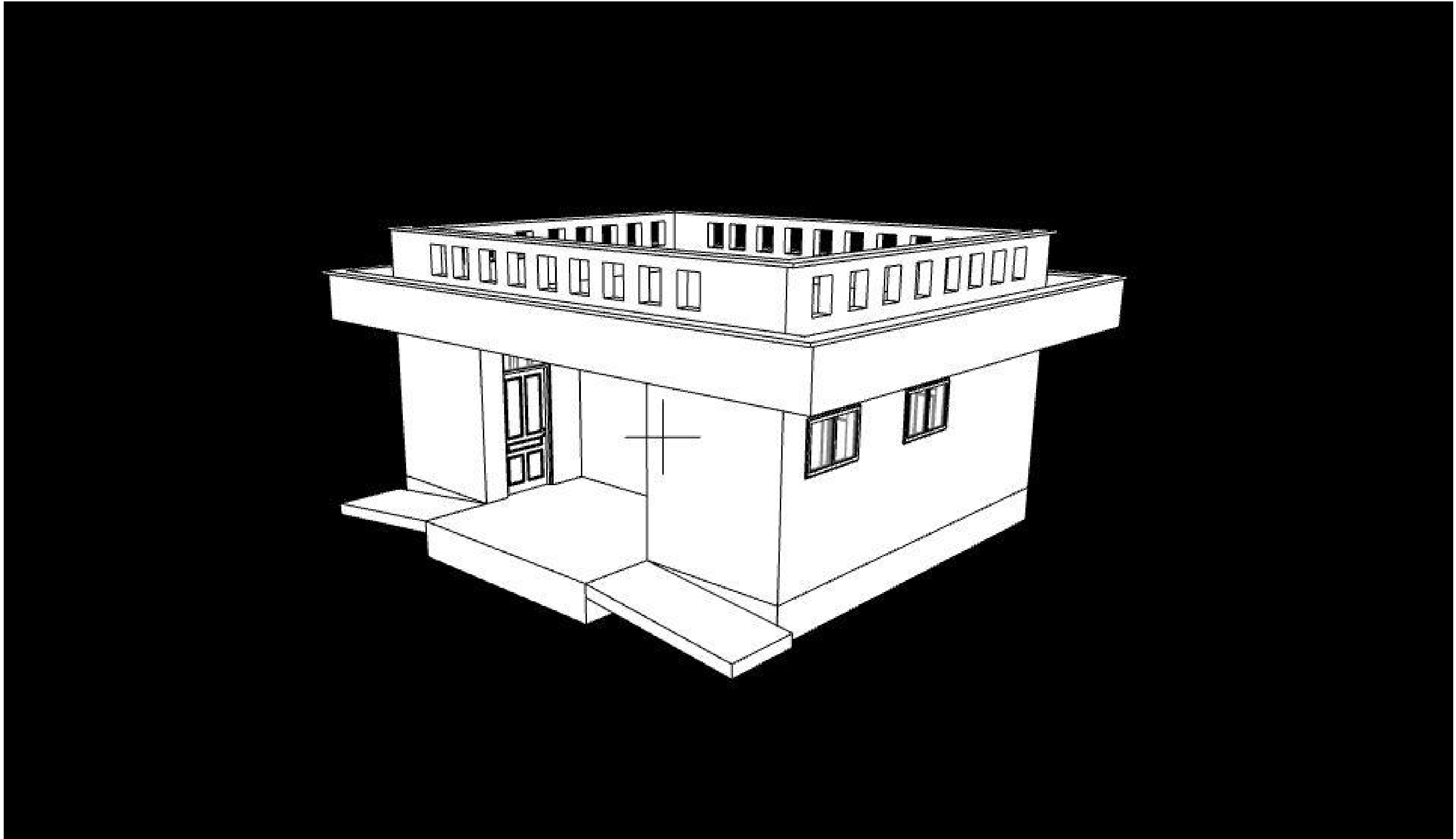
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Date:JAN 2024 Drawing No. **09-001-010**

Scale 1:100

Mukowe Fish landing Site

Ablution Block - 3D Perspectives



NOTES

GENERAL

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- +Kenya power and lighting Co. Ltd.

FIRE

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gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject :

MUKOWE FISH LANDING SITE

Consultancy :

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

Drawn by: CHRIS NGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No. **09-001-011**

Scale 1:100

Mukowe Fish landing Site

Window Schedule

WINDOW DESIGN				
NAME	WD -001	WD -002	WD -003	WD -004
QUANTITY	06	2	4	2
LOCATION				
SPECIFICATIONS	powder coated aluminium framed sliding windows complete with ironmongery, mullions, transomes, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips,couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally; panes fixed with 6mm thick one way glass fixed with beadings.	powder coated aluminium framed top-hung windows complete with ironmongery, mullions, transomes, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips,couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally; panes fixed with 6mm thick one way glass fixed with beadings.	powder coated aluminium framed top-hung windows complete with ironmongery, mullions, transomes, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips,couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally; panes fixed with 6mm thick one way glass fixed with beadings.	powder coated aluminium framed top-hung windows complete with ironmongery, mullions, transomes, railing and necessary intermediate reinforcement elements including all weather strips, rubber glazing strips,couplings, sliding rails bars, window cills and window boards, quadrant & painted externally and internally; panes fixed with 6mm thick one way glass fixed with beadings.

NOTES

- GENERAL
- All dimensions are shown in mm unless otherwise specified.

•Drawings are not to be scaled. Only figured dimensions to be used.

•The contractor must check and verify all dimensions on site before commencement of any work.
- CONSTRUCTION
- Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.

•All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.

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

•Window sills must be finished before internal plastering.
- CIVIL WORKS
- All soil under slabs and all around external foundations to be treated with anti- termite pesticide AND should be executed by/licensed and duly registered sub contractor.

•Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.

•All levels for sewer and road works must be approved by the engineer before work commences.
- STRUCTURAL
- This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.

•Concrete to be class 20/20 (1:2:4).

•Steel reinforcement bar to be: "Y" = high tensile steel to B.S 4461.

•"R" = Round mild steel to B.S 449.

•All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.

•All timber to preservative treated in accordance with KS 02 914:1982.

•Depth of the foundation to be determined on site to S.E's approval.

- MECHANICAL
- Pipe dimensions are in mm.

•Cold water device pipes steel, with class B to B.S 1387.

•Draining pipe above ground shall have grey while those below ground shall be upvc golden brown.

•All underground foul and waste drain pipes shall be upvc to comply.

•All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.

•The storm water pipe to comply with BS 556.

•Minimum slope in the drain to be 1%.

•All testing of pipes must be completed before plastering.
- ELECTRICAL
- All conduits must be laid before plastering.

•General conditions of contract for sub contract works.

•Government electrical specification number 1.

•Government electrical specification number 2.

•Electrical act and rules made there under.

•The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.

•Kenya power and lighting Co. Ltd.
- FIRE
- Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors

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

• Provide automatic push button fire alarm system

• Provide heat and smoke detectors in each room

• Provide 9kg. dry powder fire extinguishers to ME specifications

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
lc	inspection chamber
rec	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
wc	water closet
shw	shower
ce	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. walling
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject : **MUKOWE FISH LANDING SITE**

Consultancy :

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

Drawn by: CHRISNGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No. **09-001-012**

Scale 1:100

Mukowe Fish landing Site

Door Schedule

			
DOO - 001	DOO - 002	DOO - 003	DOO - 004
1200*2400MM HARDWOOD MVULE PANELLED DOUBLE LEAF DOOR IRON MONGERY DETAILS AS PER BoQ SPECIFICATIONS	900*2400MM HARDWOOD MVULE PANELLED SINGLE LEAF DOOR IRON MONGERY DETAILS AS PER BoQ SPECIFICATIONS	1000*2400MM HARDWOOD MVULE PANELLED SINGLE LEAF DOOR- DOUBLE ACTING IRON MONGERY DETAILS AS PER BoQ SPECIFICATIONS	800*1950MM HARDWOOD MVULE PANELLED SINGLE LEAF DOOR IRON MONGERY DETAILS AS PER BoQ SPECIFICATIONS
6 NO .	6 NO .	6 NO .	2 NO .

NOTES

- GENERAL**
- +All dimensions are shown in mm unless otherwise specified.
 - +Drawings are not to be scaled. Only figured dimensions to be used.
 - +The contractor must check and verify all dimensions on site before commencement of any work.
- CONSTRUCTION**
- +Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
 - +All slab at grade to be poured on 1000gauge polytheneon 50mm stone dust blinding on compacted hardcore.
 - +All soils under slab and around external foundation to be treated for termite control.
 - +Window sills must be finished before internal plastering.
- CIVIL WORKS**
- +All soil under slabs and all around external foundations to be treated with anti- termite pesticide AND should be executed by/licensed and duly registered sub contractor.
 - +Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
 - +All levels for sewer and road works must be approved by the engineer before work commences.
- STRUCTURAL**
- +This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
 - +Concrete to be class 20/20 (1:2:4).
 - +Steel reinforcement bar to be: "Y" = high tensile steel to B.S 4461. "R" = Round mild steel to B.S 449.
 - +All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
 - +All timber to preservative treated in accordance with KS 02 914:1982.
 - +Depth of the foundation to be determined on site to S.E's approval.
- MECHANICAL**
- +Pipe dimensions are in mm.
 - +Cold water device pipes steel, with class B to B.S 1387.
 - +Draining pipe above ground shall apply grey while those below ground shall be upvc golden brown.
 - +All underground foul and waste drain pipes shall be upvc to comply.
 - +All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
 - +The storm water pipe to comply with BS 556.
 - +Minimum slope in the drain to be 1%.
 - +All testing of pipes must be completed before plastering.
- ELECTRICAL**
- +All conduits must be laid before plastering.
 - +General conditions of contract for sub contract works.
 - +Government electrical specification number 1.
 - +Government electrical specification number 2.
 - +Electrical act and rules made there under.
 - +The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
 - +Kenya power and lighting Co. Ltd.
- FIRE**
- +Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - + Provide underground water tank with automatic electric booster pump for ring main
 - + Provide automatic push button fire alarm system
 - + Provide heat and smoke detectors in each room
 - + Provide 9kg. dry powder fire extinguishers to ME specifications

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
ic	inspection chamber
rcc	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
wc	water closet
shw	shower
cc	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject : **MUKOWE FISH LANDING SITE**

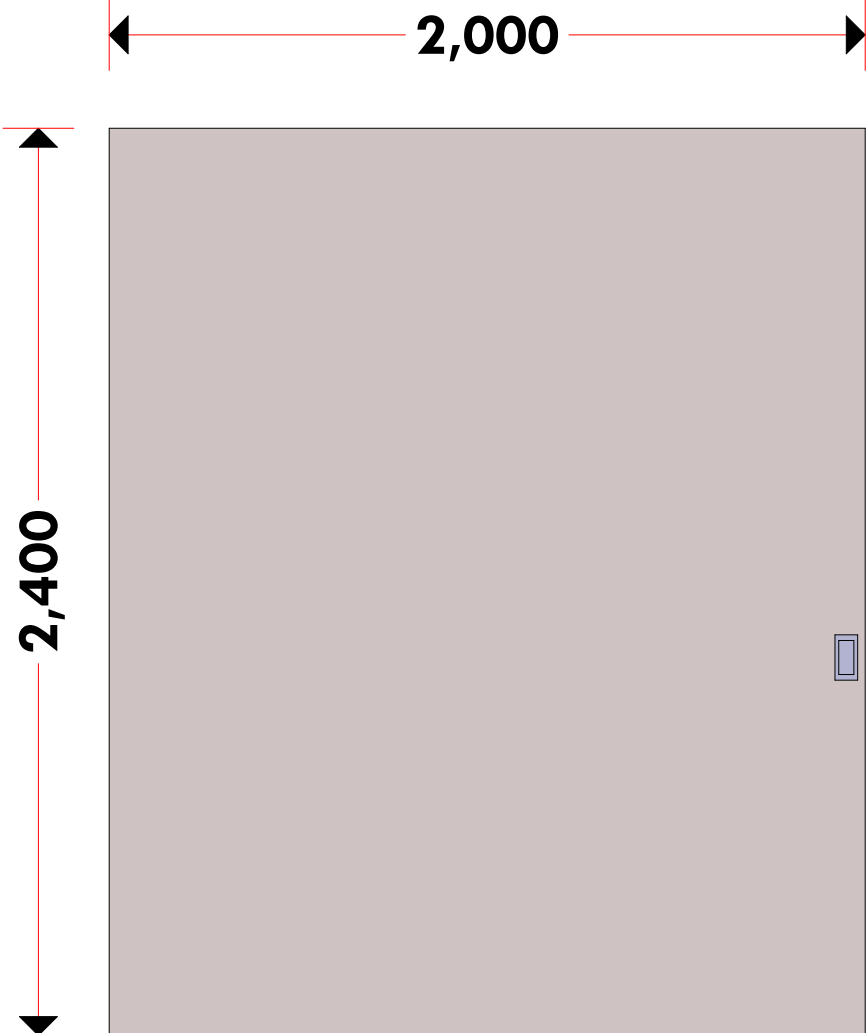
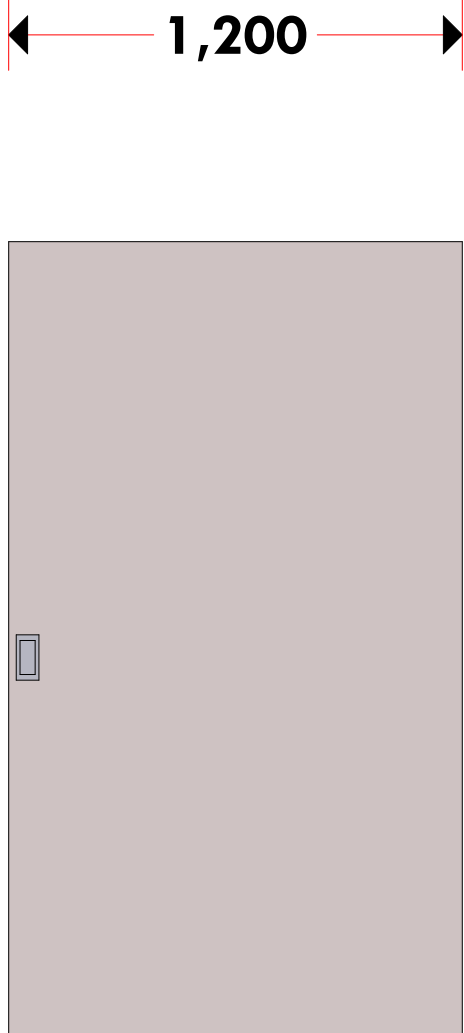
Consultancy :

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

Drawn by: CHRIS NGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
Date:JAN 2024	Drawing No .	09-001-013
Scale 1:100		

Mukowe Fish landing Site

Door Schedule

	
D O O - 006	D O O - 005
2000*2400MM STEEL SLIDING DOOR IRON MONGERY DETAILS AS PER BoQ SPECIFICATIONS	2000*2400MM STEEL SLIDING DOOR IRON MONGERY DETAILS AS PER BoQ SPECIFICATIONS
1 N O .	1 N O .

NOTES

GENERAL

- +All dimensions are shown in mm unless otherwise specified.
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- +The contractor must check and verify all dimensions on site before commencement of any work.

CONSTRUCTION

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

CIVIL WORKS

- +All soil under slabs and all around external foundations to be treated with anti- termite pesticide AND should be executed by/licensed and duly registered sub contractor.
- +Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
- +All levels for sewer and road works must be approved by the engineer before work commences.

STRUCTURAL

- +This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
- +Concrete to be class 20/20 (1:2:4).
- +Steel reinforcement bar to be: "Y" = high tensile steel to B.S 4461. "R" = Round mild steel to B.S 449.
- +All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
- +All timber to preservative treated in accordance with KS 02 914:1982.
- +Depth of the foundation to be determined on site to S.E's approval.

MECHANICAL

- +Pipe dimensions are in mm.
- +Cold water device pipes steel, with class B to B.S 1387.
- +Draining pipe above ground shall above grey while those below ground shall be upvc golden brown.
- +All underground foul and waste drain pipes shall be upvc to comply.
- +All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
- +The storm water pipe to comply with BS 556.
- +Minimum slope in the drain to be 1%.
- +All testing of pipes must be completed before plastering.

ELECTRICAL

- +All conduits must be laid before plastering.
- +General conditions of contract for sub contract works.
- +Government electrical specification number 1.
- +Government electrical specification number 2.
- +Electrical act and rules made there under.
- +The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
- +Kenya power and lighting Co. Ltd.

BIBL

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

Abbreviations	Meaning
syp	soil vent pipe
mh	man hole
ic	inspection chamber
rcc	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
we	water closet
shw	shower
ce	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject :

MUKOWE FISH LANDING SITE

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

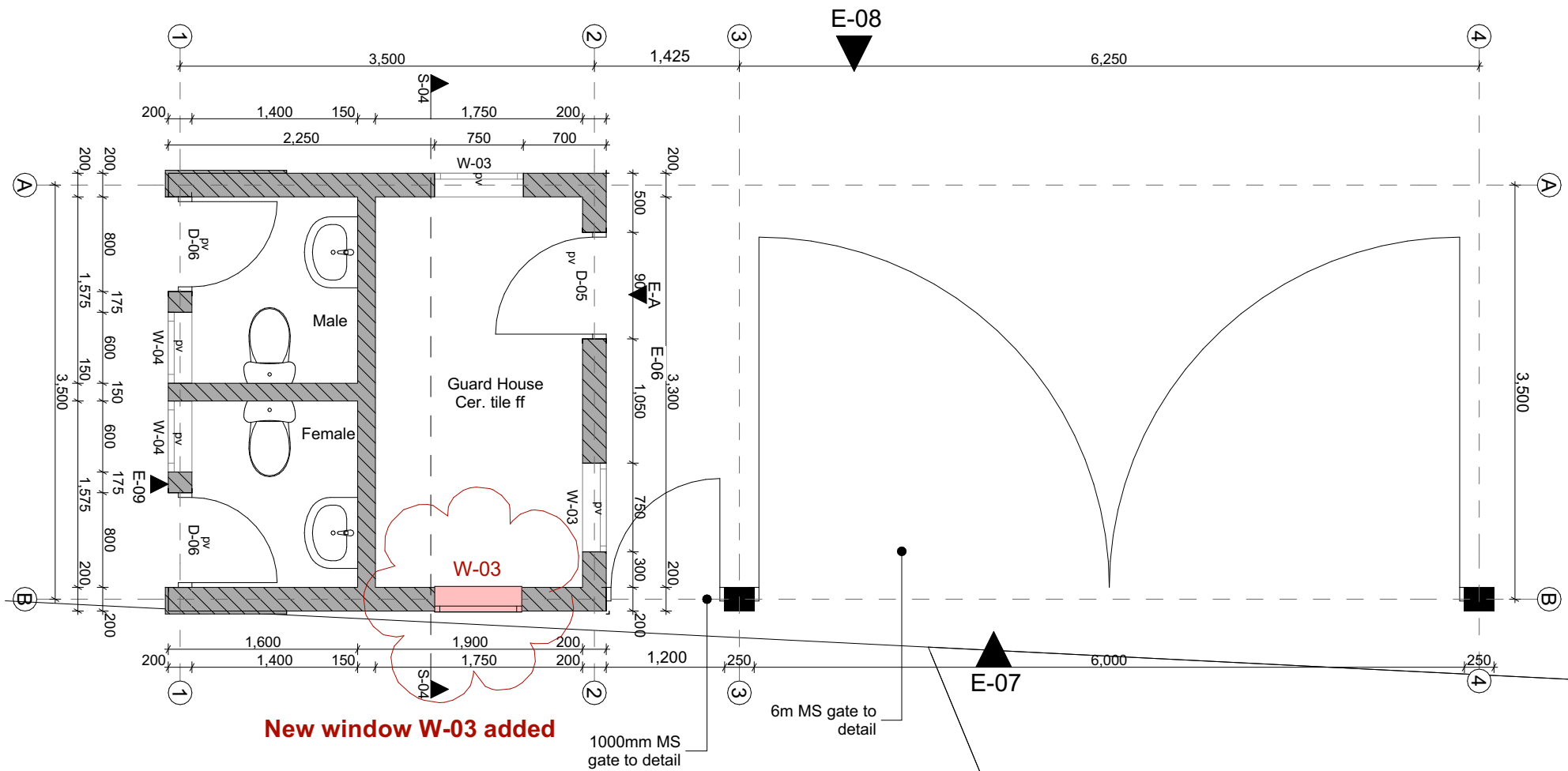
Drawn by: CHRISNGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) , M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) , M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No . **09-001-014**

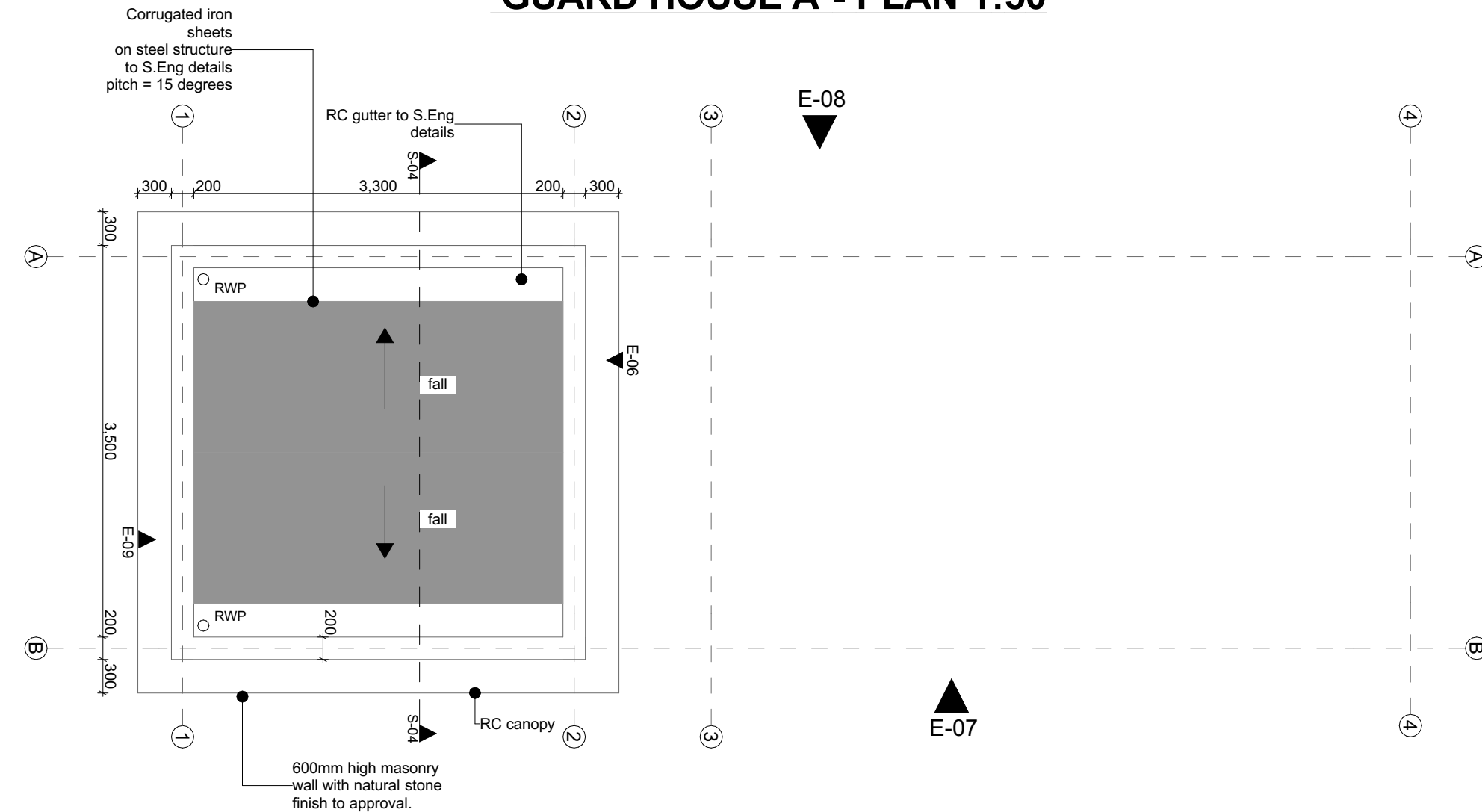
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Mukowe Fish landing Site

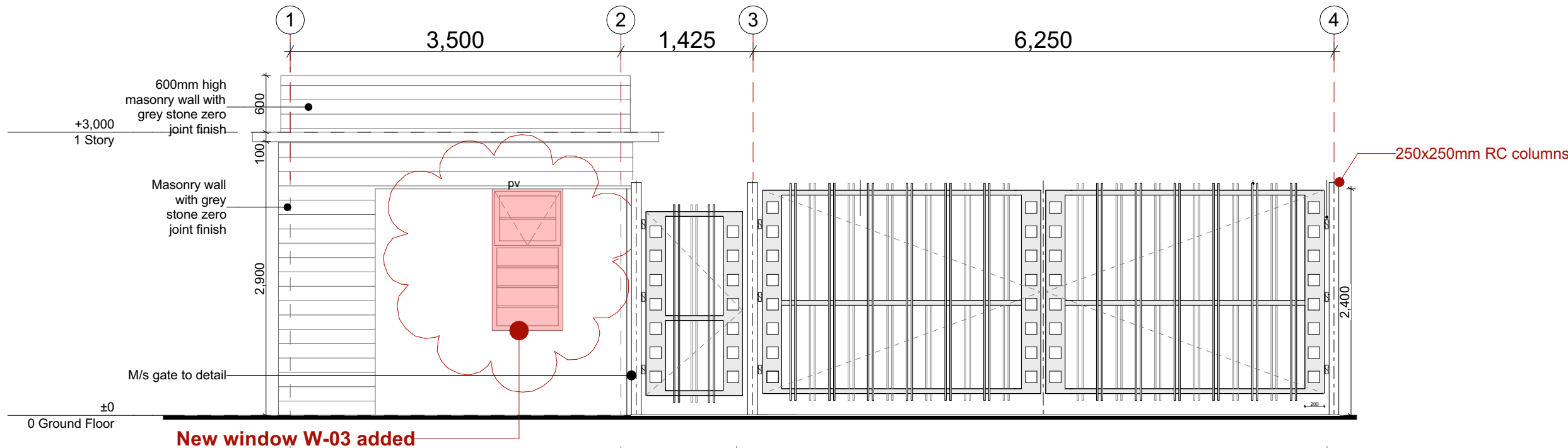
Gate House



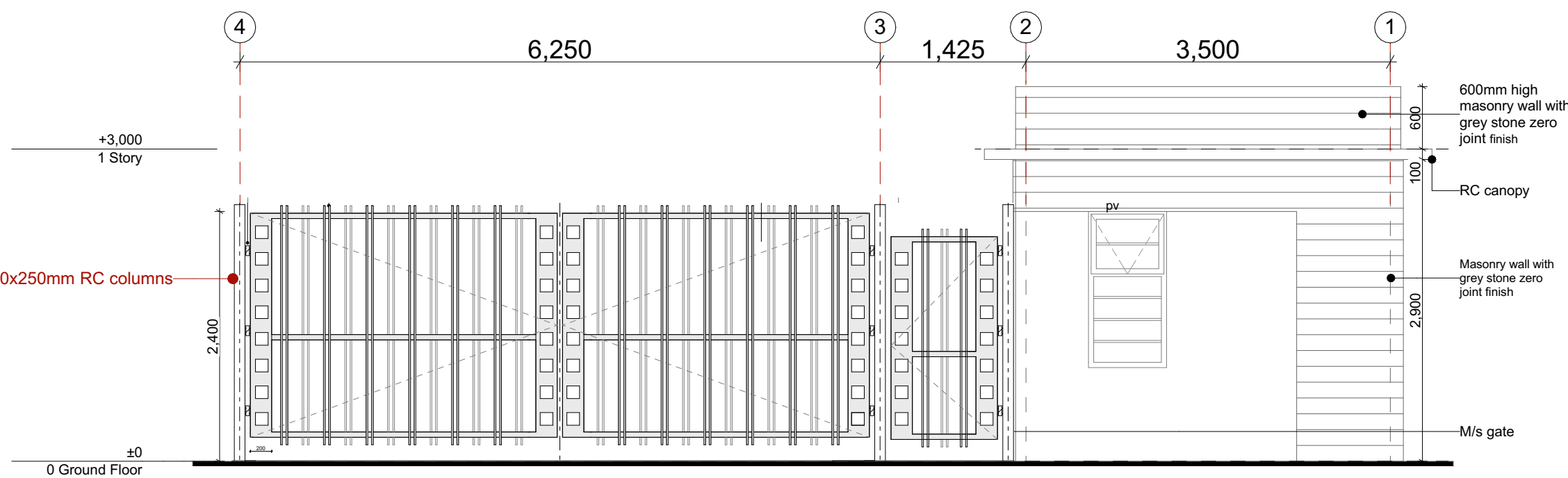
GUARD HOUSE A - PLAN 1:50



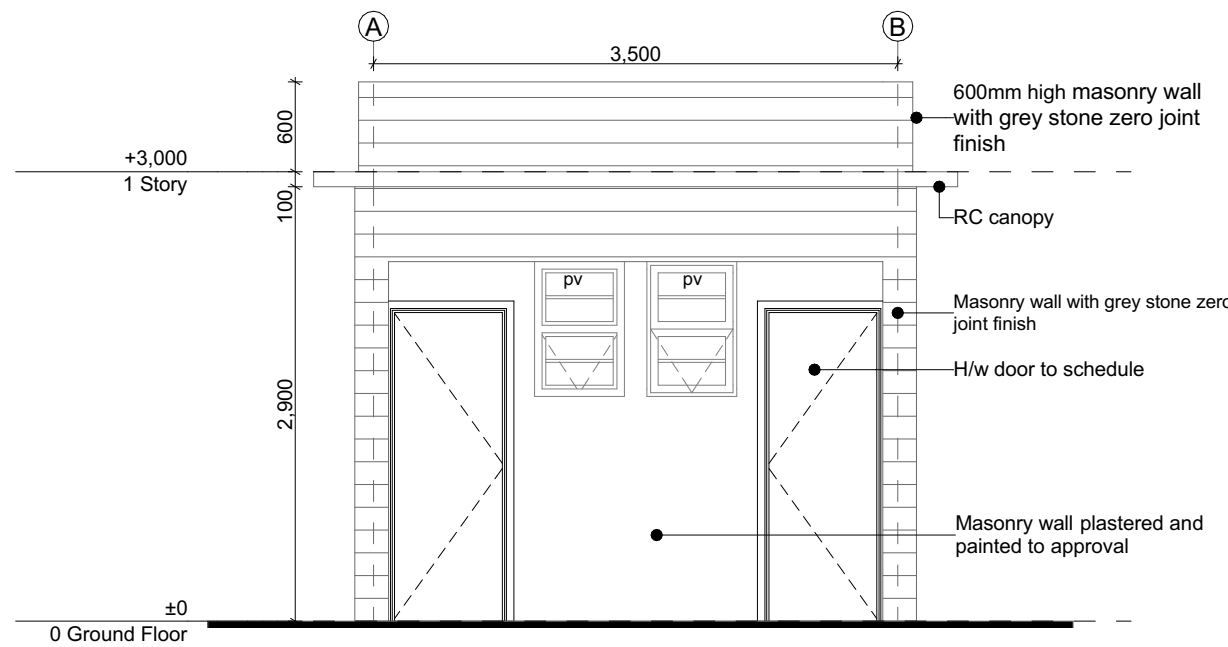
GUARD HOUSE A - ROOF PLAN 1:50



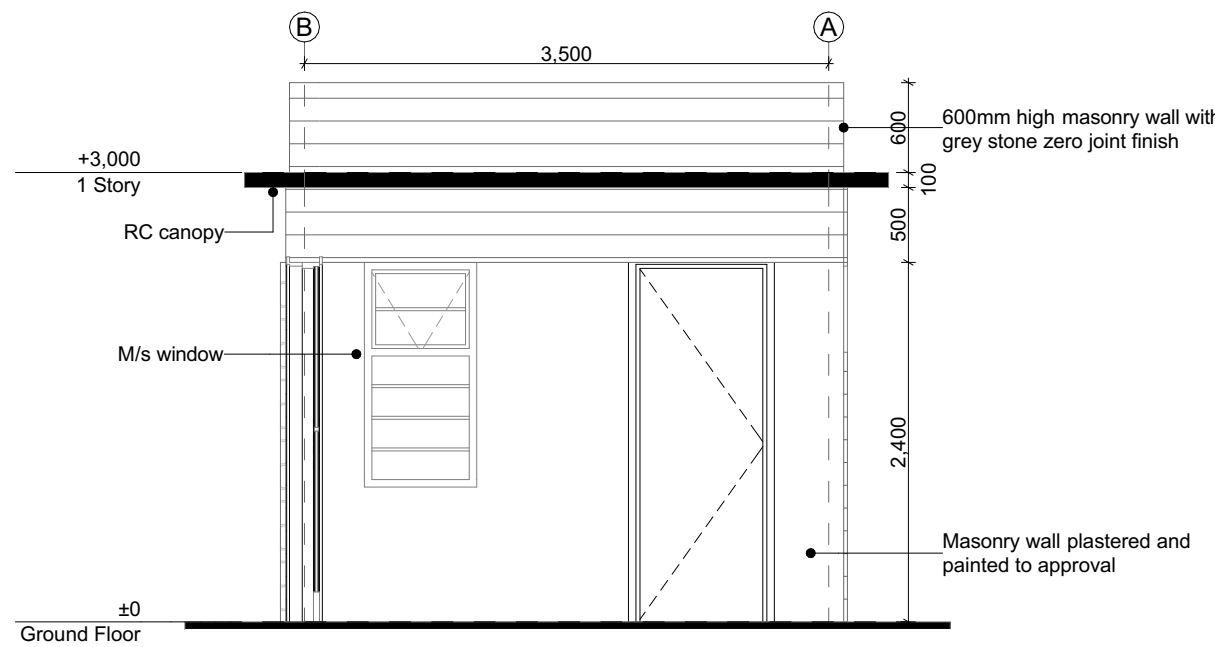
GUARD HOUSE A - FRONT ELEVATION 07 1:50



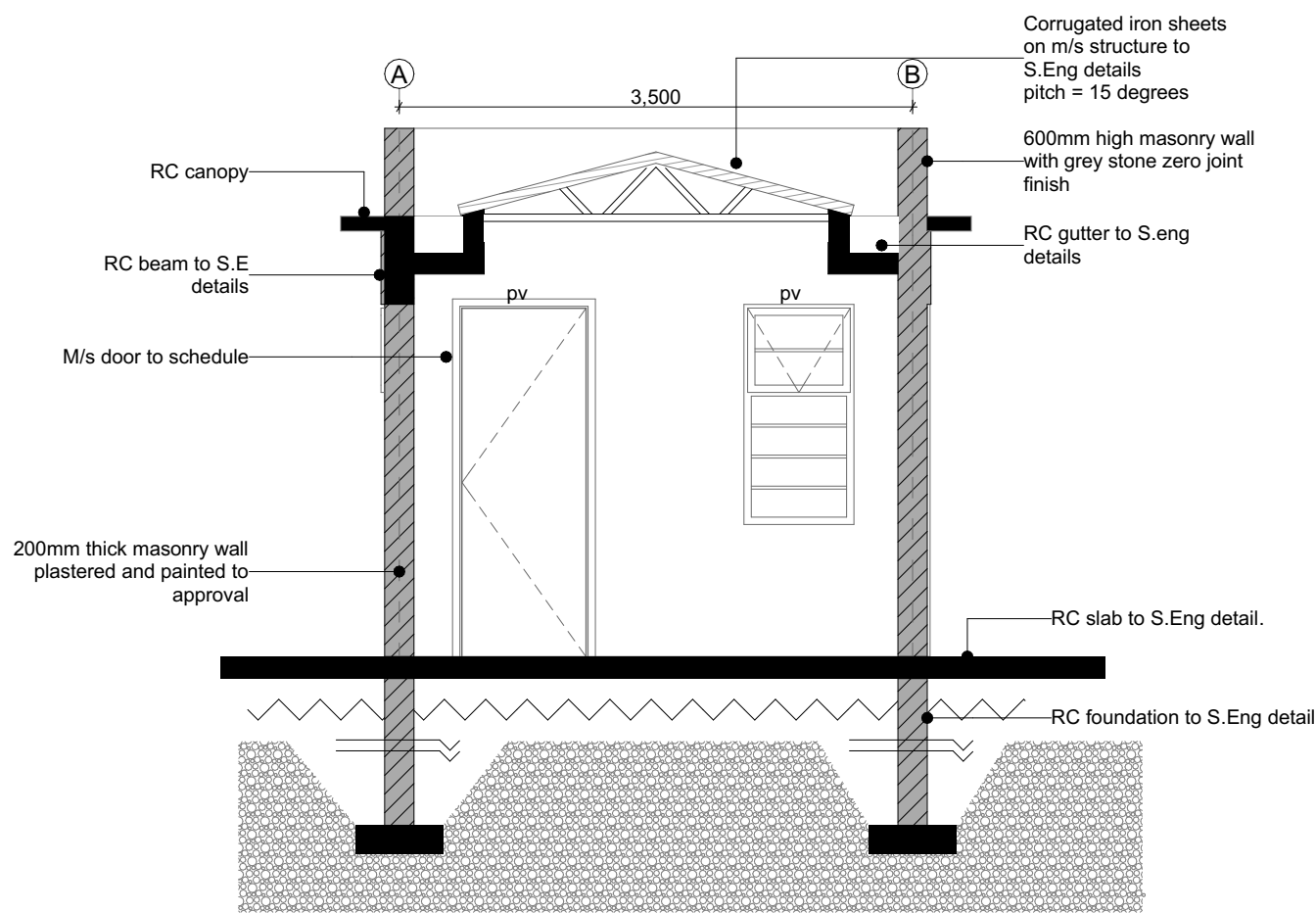
GUARD HOUSE A - REAR ELEVATION 08 1:50



GUARD HOUSE A - SIDE ELEVATION 09 1:50



GUARD HOUSE A - SIDE ELEVATION 06 1:50



GUARD HOUSE A - SECTION 04 1:50

NOTES

GENERAL

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CONSTRUCTION

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- +All slab at grade to be poured on 100gauge polythene 50mm stone dust blinding on compacted hardcore.
- +All soils under slab and around external foundation to be treated for termite control.
- +Window sills must be finished before internal plastering.

CIVIL WORKS

- +All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub-contractor.
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- +All levels for sewer and road works must be approved by the engineer before work commences.

STRUCTURAL

- +This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
- +Concrete to be class 20/20 (1:2:4).
- +Steel reinforcement bar to be: "Y" = high tensile steel to B.S.4461, "RC" = Round mild steel to B.S.449.
- +All timber to be sawn cypress G.S grade to KS 02-771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
- +All timber to preservative treated in accordance with KS 02-914:1982.
- +Depth of the foundation to be determined on site to S.E.'s approval.

MECHANICAL

- +Pipe dimensions are in mm.
- +Cold water device pipes steel, with class B to B.S.1387.
- +Draining pipe above ground shall have grey while those below ground shall be upvc golden brown.
- +All underground foul and waste drain pipes shall be upvc to comply.
- +All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
- +The storm water pipe to comply with BS 556.
- +Minimum slope in the drain to be 1%.
- +All testing of pipes must be completed before plastering.

ELECTRICAL

- +All conduits must be laid before plastering.
- +General conditions of contract for sub contract works.
- +Government electrical specification number 1.
- +Government electrical specification number 2.
- +Electrical act and rules made there under.
- +The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
- +Kenya power and lighting Co. Ltd.

BIBL

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

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
ic	inspection chamber
rec	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
wc	water closet
shw	shower
cc	centre to centre
st. eng./S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject :

MUKOWE FISH LANDING SITE

Consultancy :

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

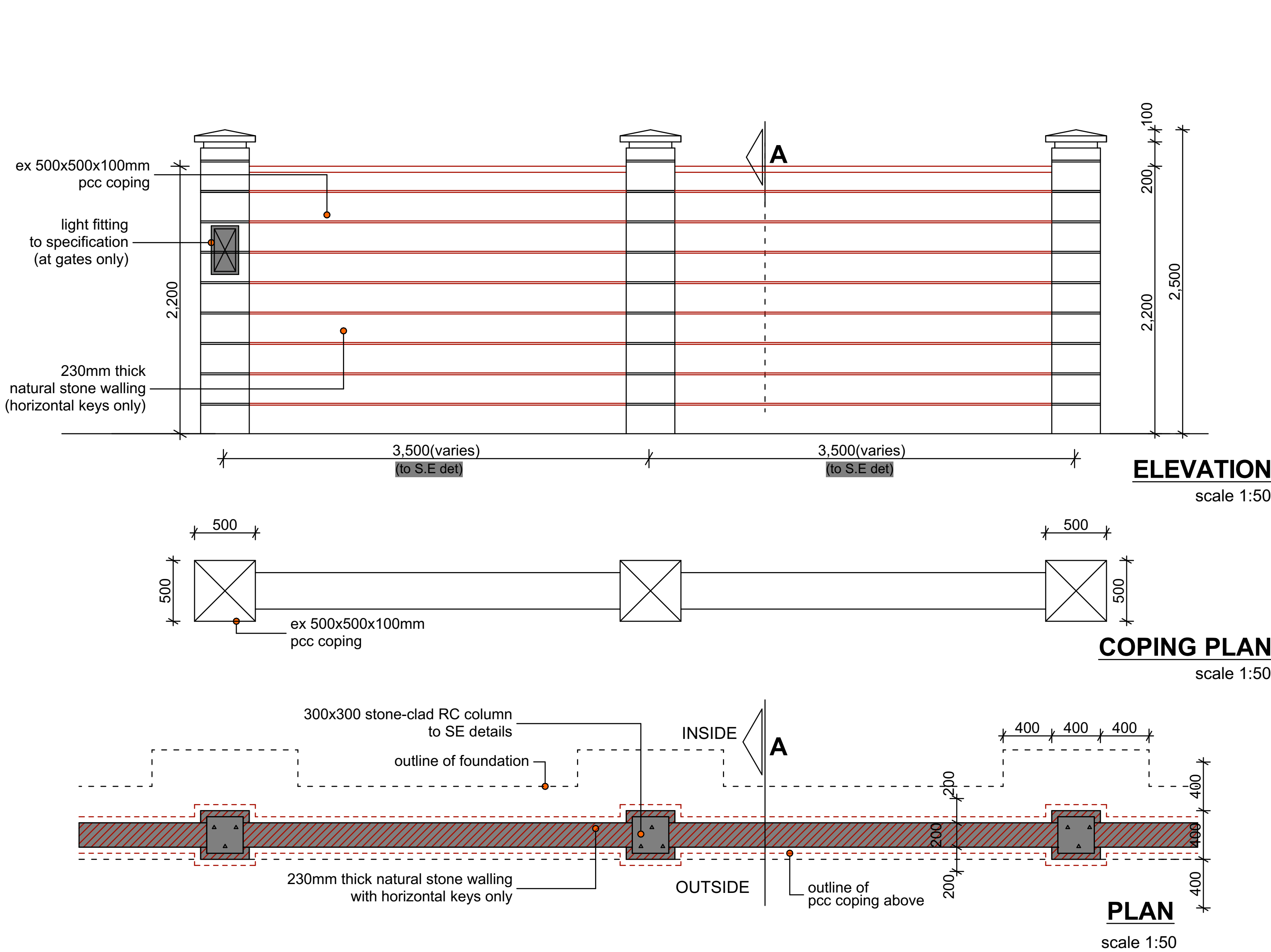
Drawn by: CHRIS NGARE B. Arch. (Hons)	Checked by: - F. TUNDULI B. Arch. (Hons) . M. Arch. (reg. No.A1552)	Checked by: - J. MOMANYI B. Arch. (Hons) . M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No. **09-001-015**

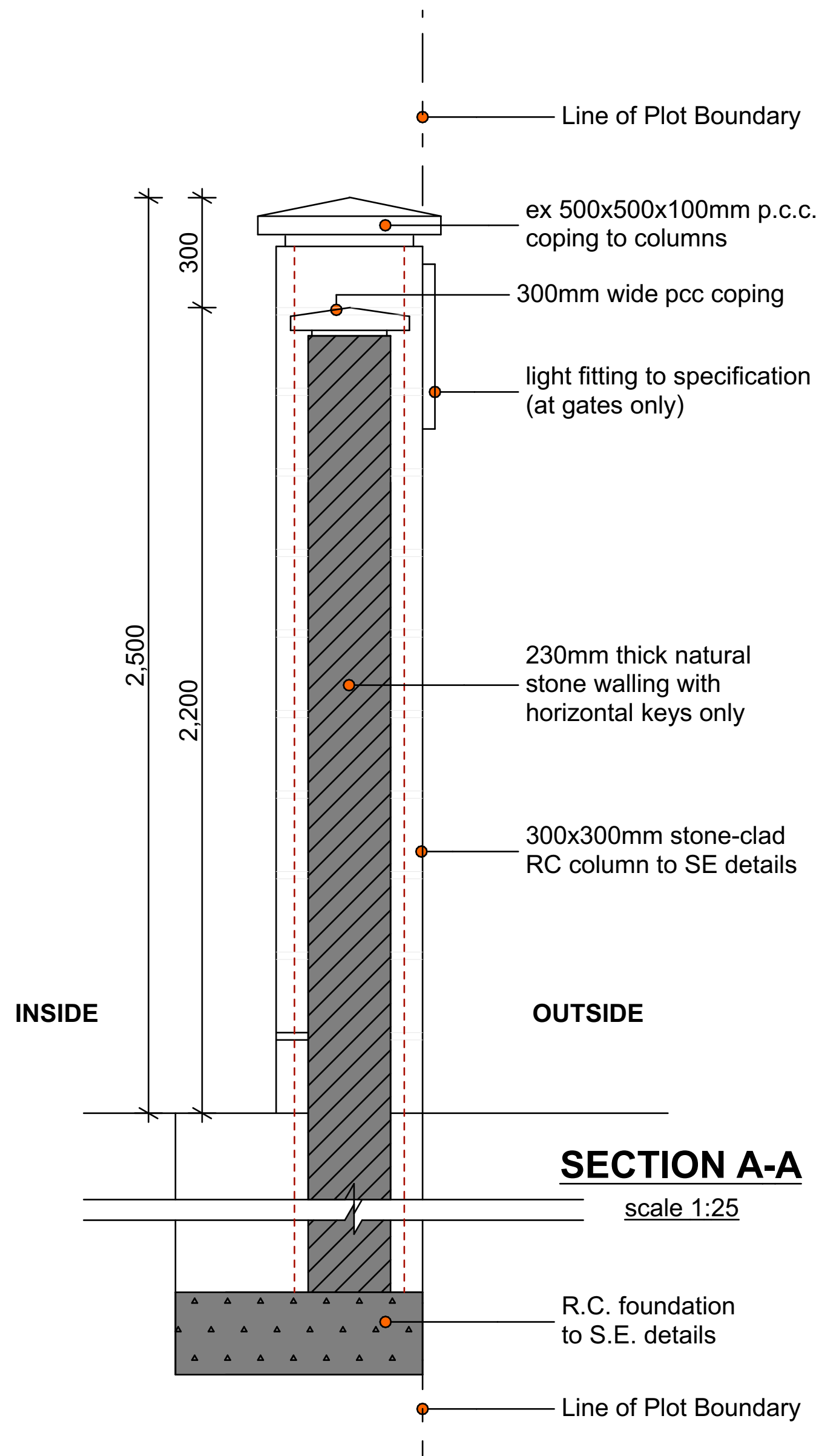
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Mukowe Fish landing Site

Boundary Wall



EXTERNAL BOUNDARY WALL



SECTION A-A

NOTES

- GENERAL**
- *All dimensions are shown in mm unless otherwise specified.
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- CONSTRUCTION**
- *Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
 - *All slab at grade to be poured on 100gauge polythene 50mm stone dust blinding on compacted hardcore.
 - *All soils under slab and around external foundation to be treated for termite control.
 - *Window sills must be finished before internal plastering.
- CIVIL WORKS**
- *All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor.
 - *Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
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- *This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
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 - *Steel reinforcement bar to be: "Y" = high tensile steel to B.S. 4461.
 - *"R" = Round mild steel to B.S. 449.
 - *All timber to be sawn cypress G.S. grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
 - *All timber to preservative treated in accordance with KS 02 914:1982.
 - *Depth of the foundation to be determined on site to S.E.'s approval.
- MECHANICAL**
- *Pipe dimensions are in mm.
 - *Cold water device pipes steel, with class B to S. 1387.
 - *Draining pipe above ground shall apply grey while those below ground shall be upvc golden brown.
 - *All underground foul and waste drain pipes shall be upvc to comply.
 - *All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
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 - *All testing of pipes must be completed before plastering.
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 - *Government electrical specification number 2.
 - *Electrical act and rules made there under.
 - *The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
 - *Kenya power and lighting Co. Ltd.
- BIBL**
- *Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors
 - * Provide underground water tank with automatic electric booster pump for ring main
 - * Provide automatic push button fire alarm system
 - * Provide heat and smoke detectors in each room
 - * Provide 9kg. dry powder fire extinguishers to MEI specifications

Abbreviations	Meaning
svp	soil vent pipe
mh	man hole
ic	inspection chamber
rcc	reinforced cement concrete
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whb	wash hand basin
wc	water closet
shw	shower
cc	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. ft. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L. R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject :

MUKOWE FISH LANDING SITE

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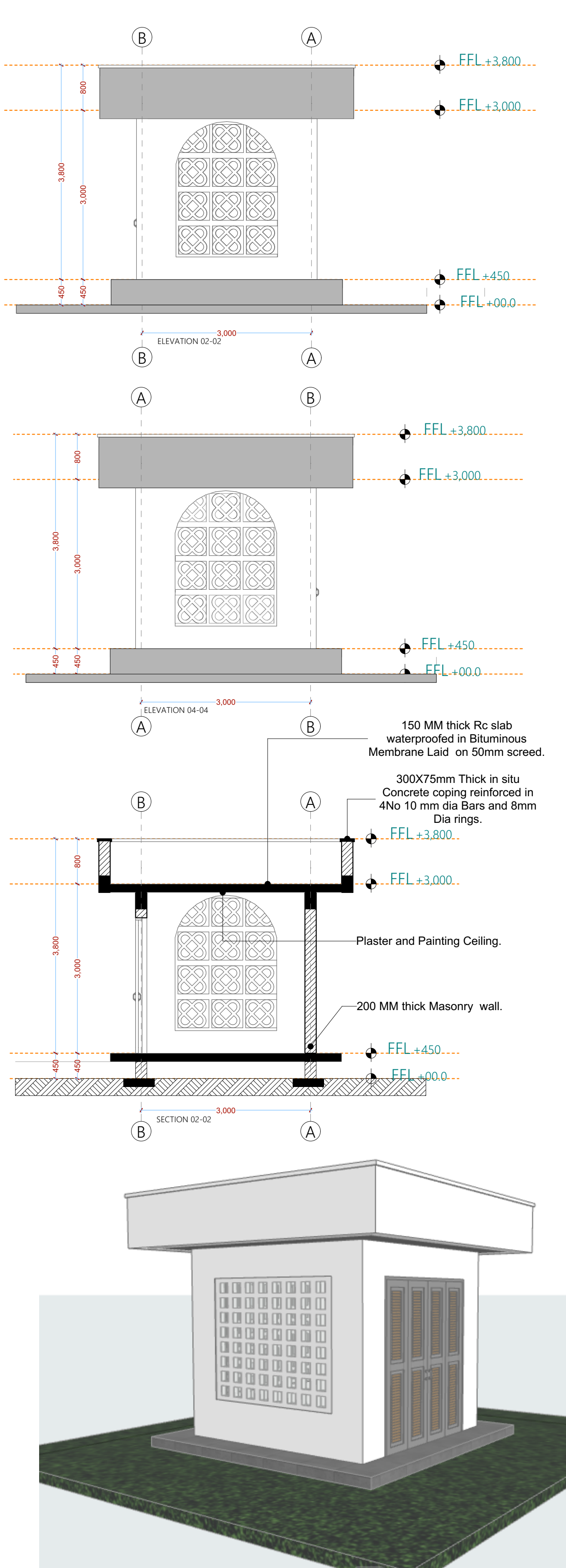
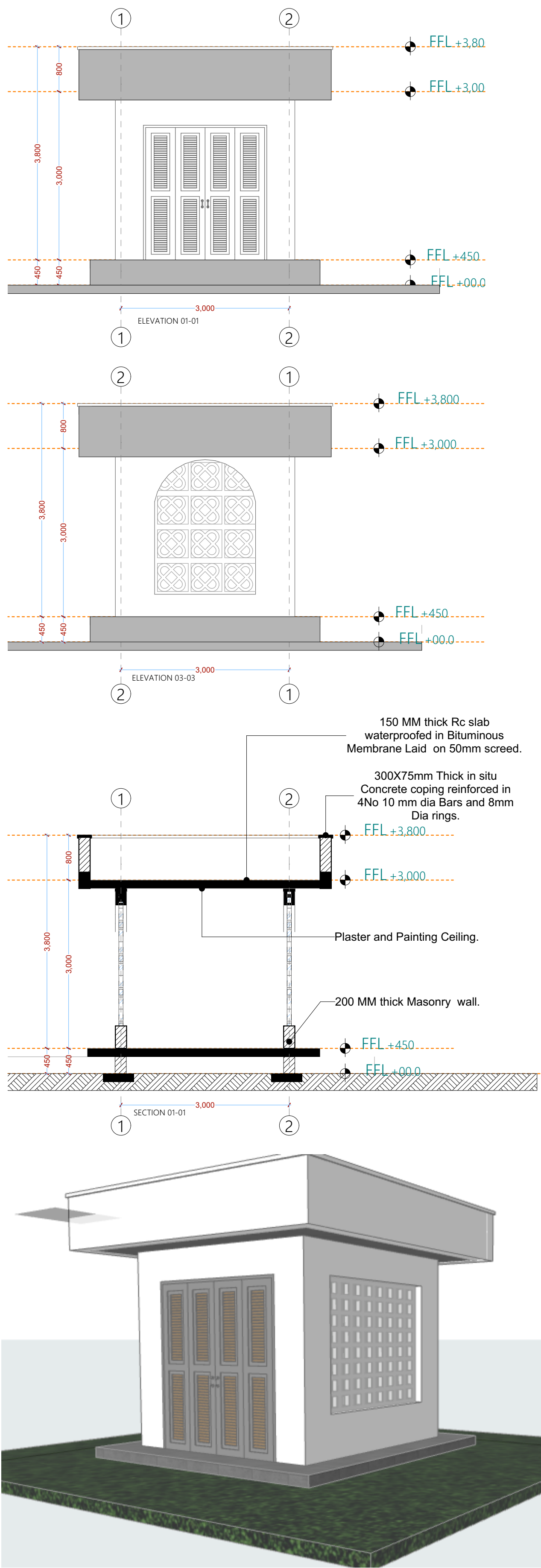
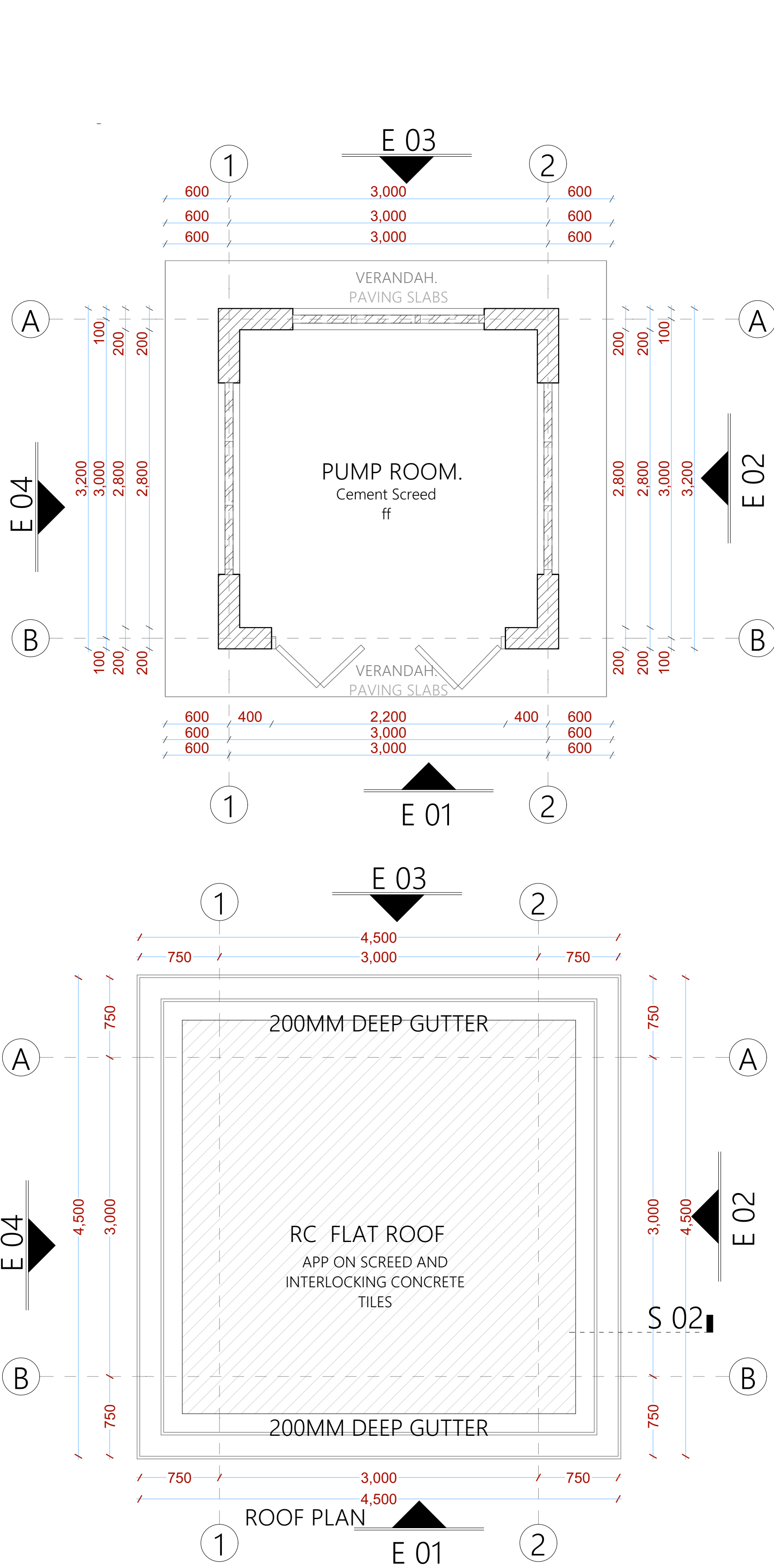
Drawn by: CHRIS NGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No. : **09-001-016**

Scale 1:100

Mukowe Fish landing Site

Pump House

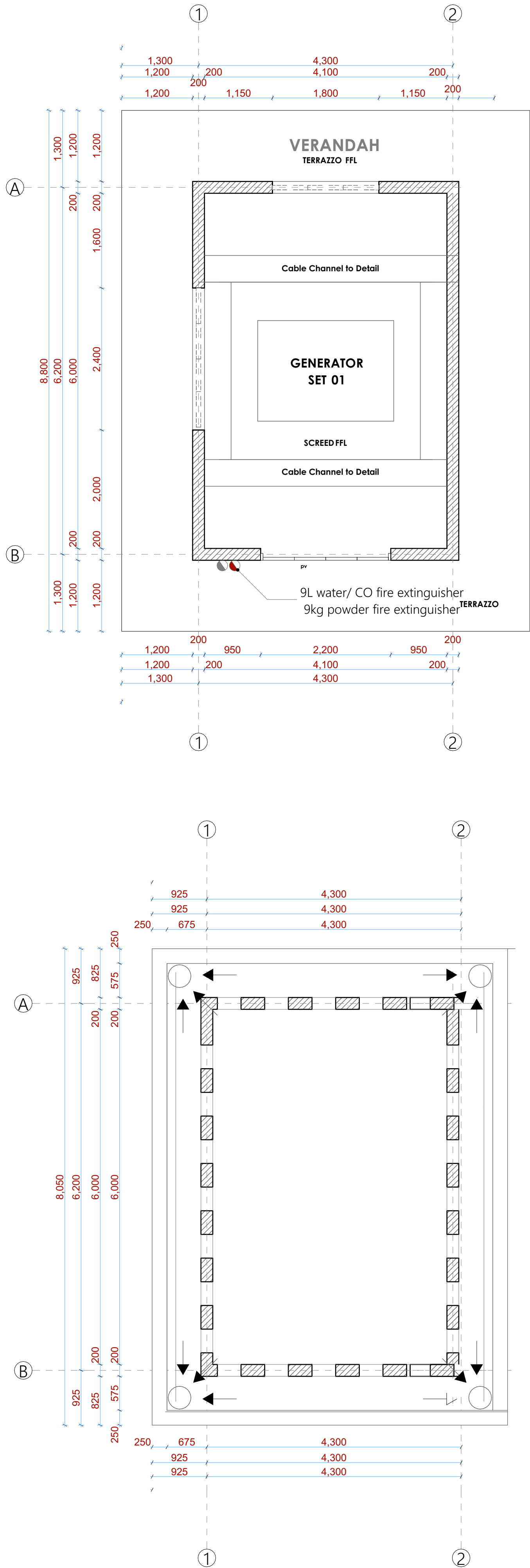


NOTES

GENERAL +All dimensions are shown in mm unless otherwise specified. +Drawings are not to be scaled. Only figured dimensions to be used. +The contractor must check and verify all dimensions on site before commencement of any work.																																			
CONSTRUCTION + Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level. + All slab at grade to be poured on 100gauge polythene 50mm stone dust bedding on compacted hardcore. + All soils under slab and around external foundation to be treated for termite control. + Window sills must be finished before internal plastering.																																			
CIVIL WORKS + All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor. + Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences. + All levels for sewer and road works must be approved by the engineer before work commences.																																			
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MECHANICAL + Pipe dimensions are in mm. + Cold water device pipes steel, with class B to B.S 1387. + Draining pipe above ground shall give grey while those below ground shall be upvc golden brown. + All underground foul and waste drain pipes shall be upvc to comply. + All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A. + The storm water pipe to comply with BS 556. + Minimum slope in the drain to be 1%. + All testing of pipes must be completed before plastering.																																			
ELECTRICAL + All conduits must be laid before plastering. + General conditions of contract for sub contract works. + Government electrical specification number 1. + Government electrical specification number 2. + Electrical act and rules made there under. + The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers. + Kenya power and lighting Co. Ltd.																																			
FIRE + Install water ring main with fire hydrant with 2.5" instantaneous coupling adaptors + Provide underground water tank with automatic electric booster pump for ring main + Provide automatic push button fire alarm system + Provide heat and smoke detectors in each room + Provide 9kg. dry powder fire extinguishers to MEI specifications																																			
<table><tr><th>Abbreviations</th><th>Meaning</th></tr><tr><td>svp</td><td>soil vent pipe</td></tr><tr><td>mh</td><td>man hole</td></tr><tr><td>ic</td><td>inspection chamber</td></tr><tr><td>rec</td><td>reinforced cement concrete</td></tr><tr><td>gt</td><td>gully trap</td></tr><tr><td>ss sink</td><td>stain-less steel sink</td></tr><tr><td>whb</td><td>wash hand basin</td></tr><tr><td>wc</td><td>water closet</td></tr><tr><td>shw</td><td>shower</td></tr><tr><td>cc</td><td>centre to centre</td></tr><tr><td>st. eng/S.E.</td><td>structural engineer</td></tr><tr><td>dpc</td><td>damp proof course-under all grt. ft. wallings</td></tr><tr><td>dpm</td><td>damp proof membrane</td></tr><tr><td>gl</td><td>ground level</td></tr><tr><td>pv</td><td>permanent ventilation-on all windows & doors except on internal toilet doors.</td></tr></table>				Abbreviations	Meaning	svp	soil vent pipe	mh	man hole	ic	inspection chamber	rec	reinforced cement concrete	gt	gully trap	ss sink	stain-less steel sink	whb	wash hand basin	wc	water closet	shw	shower	cc	centre to centre	st. eng/S.E.	structural engineer	dpc	damp proof course-under all grt. ft. wallings	dpm	damp proof membrane	gl	ground level	pv	permanent ventilation-on all windows & doors except on internal toilet doors.
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No	REVISIONS	DATE	SIGNATURE																																
Project : PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT																																			
Plot L. R. No.:																																			
Location : MUKOWE,LAMU																																			
Client : STATE DEPARTMENT FOR FISHERIES AQUACULTURE AND THE BLUE ECONOMY																																			
Signature																																			
Subject : MUKOWE FISH LANDING SITE																																			
Consultancy : ARPRIM CONSULTANTS P.O BOX 12969-0040 NAIROBI TEL: 020-884312/8 Website :www.arprimconsultants.com																																			
Drawn by: CHRISNGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) M. Arch. (reg. No.A1122)																																	
Date:JAN 2024 Drawing No. 09-001-017																																			
Scale 1:100																																			

Mukowe Fish landing Site

Power House



NOTES

GENERAL

- +All dimensions are shown in mm unless otherwise specified.
- +Drawings are not to be scaled. Only figured dimensions to be used.
- +The contractor must check and verify all dimensions on site before commencement of any work.

CONSTRUCTION

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

CIVIL WORKS

- +All soil under slabs and all around external foundations to be treated with anti- termite pesticide AND should be executed by/licensed and duly registered sub contractor.
- +Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
- +All levels for sewer and road works must be approved by the engineer before work commences.

STRUCTURAL

- +This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
- +Concrete to be class 20/20 (1:2:4).
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- +All timber to preservative treated in accordance with KS 02 914:1982.
- +Depth of the foundation to be determined on site to S.E's approval.

MECHANICAL

- +Pipe dimensions are in mm.
- +Cold water device pipes steel, with class B to B.S 1387.
- +Draining pipe above ground shall apply grey while those below ground shall be upvc golden brown.
- +All underground foul and waste drain pipes shall be upvc to comply.
- +All inspection chambers covers and framing shall be cast iron to comply with BS497 TABLE 2 GRADE A.
- +The storm water pipe to comply with BS 556.
- +Minimum slope in the drain to be 1%.
- +All testing of pipes must be completed before plastering.

ELECTRICAL

- +All conduits must be laid before plastering.
- +General conditions of contract for sub contract works.
- +Government electrical specification number 1.
- +Government electrical specification number 2.
- +Electrical act and rules made there under.
- +The current edition of regulation for the electrical equipment of buildings issued by the institution of electrical engineers.
- +Kenya power and lighting Co. Ltd.

BIRE

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

Abbreviations	Meaning
syp	soil vent pipe
mh	man hole
ic	inspection chamber
rec	reinforced cement concrete
gt	gully trap
ss sink	stain-less steel sink
whb	wash hand basin
we	water closet
shw	shower
ce	centre to centre
st. eng/S.E.	structural engineer
dpc	damp proof course-under all grt. fl. wallings
dpm	damp proof membrane
gl	ground level
pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature :

Subject :

MUKOWE FISH LANDING SITE

Consultancy :

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

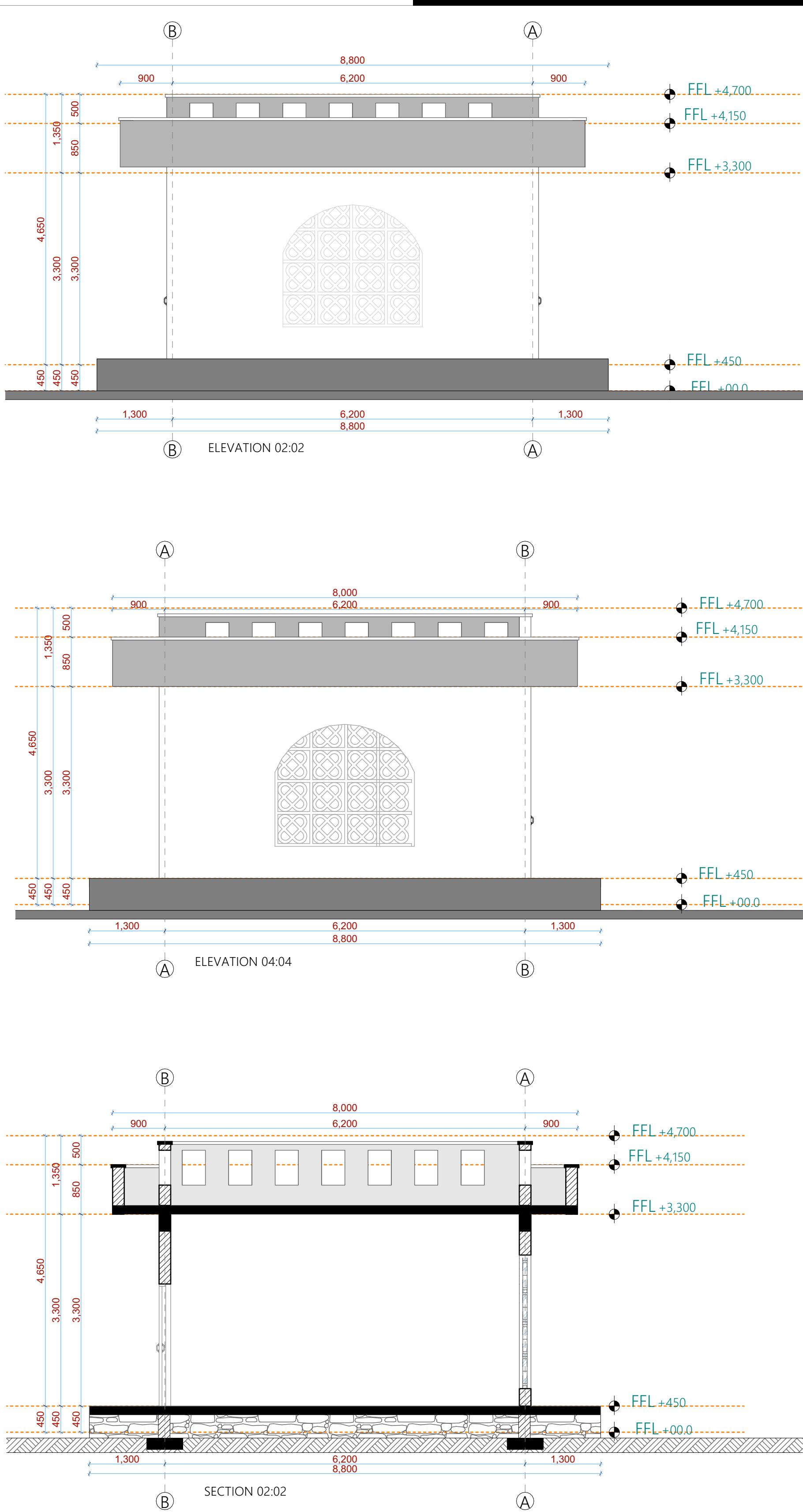
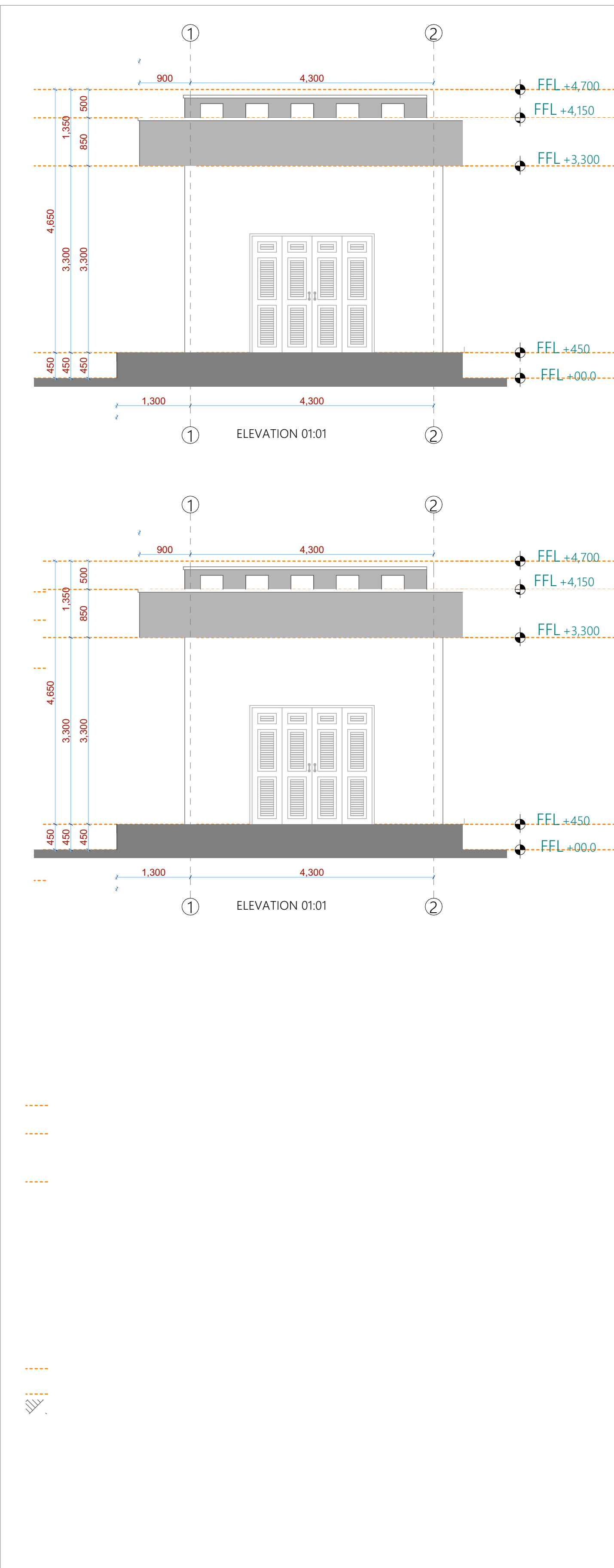
Drawn by: CHRISNGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) M. Arch. (reg. No.A1122)
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Date:JAN 2024 Drawing No. **09-001-018**

Scale 1:100

Mukowe Fish landing Site

Power House



NOTES

- GENERAL**
- *All dimensions are shown in mm unless otherwise specified.
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- *Damp proof course must be provided under all external walls at grade. DPC to be minimum 150mm above ground level.
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 - *All soils under slab and around external foundation to be treated for termite control.
 - *Window sills must be finished before internal plastering.
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- *All soil under slabs and all around external foundations to be treated with anti-termite pesticide AND should be executed by licensed and duly registered sub contractor.
 - *Sample for pipe works and other materials for road works specified to be presented to the engineer before works commences.
 - *All levels for sewer and road works must be approved by the engineer before work commences.
- STRUCTURAL**
- *This drawing must be read in conjunction with related architectural drawing, engineers and any other relevant drawings.
 - *Concrete to be class 20/20 (1:2:4).
 - *Steel reinforcement bar to be: "Y" = high tensile steel to B.S 4461.
 - *"R" = Round mild steel to B.S 449.
 - *All timber to be sawn cypress G.S grade to KS 02- 771:1989 and seasoned to equilibrium moisture content between 9% and 15%.
 - *All timber to preservative treated in accordance with KS 02 914:1982.
 - *Depth of the foundation to be determined on site to S.E's approval.
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 - *Kenya power and lighting Co. Ltd.
- BIBL**
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 - * Provide underground water tank with automatic electric booster pump for ring main
 - * Provide automatic push button fire alarm system
 - * Provide heat and smoke detectors in each room
 - * Provide 9kg. dry powder fire extinguishers to MEI specifications

Abbreviations	Meaning
svp	soil vent pipe
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dpc	damp proof course-under all grd. fl. wallings
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pv	permanent ventilation-on all windows & doors except on internal toilet doors.

No	REVISIONS	DATE	SIGNATURE

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

Plot L . R. No.:

Location : **MUKOWE,LAMU**

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

Signature

Subject :

MUKOWE FISH LANDING SITE

Consultancy :

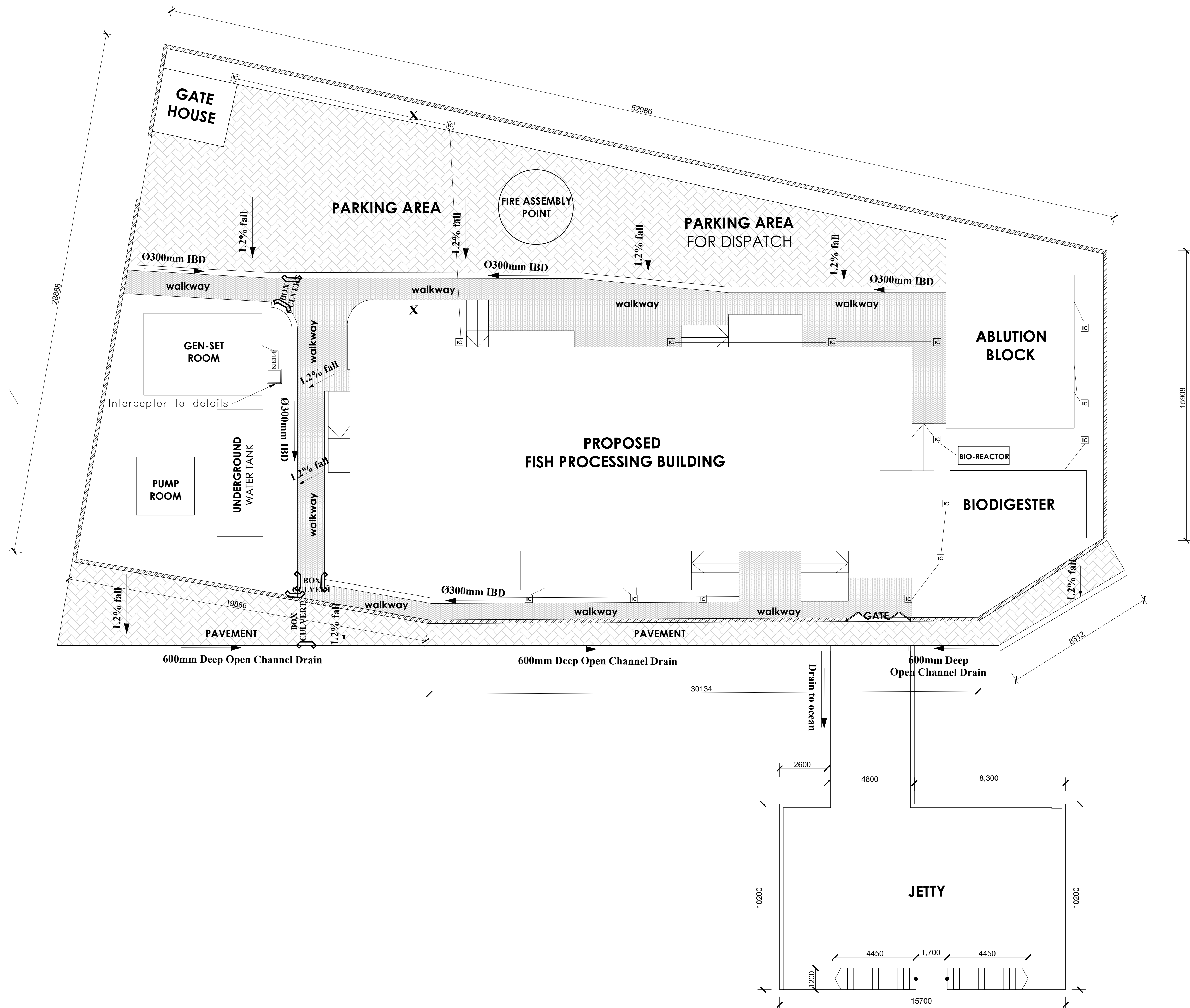
ARPRIM CONSULTANTS
P.O BOX 12969-0040 NAIROBI
TEL: 020-884312/8
Website :www.arprimconsultants.com

Drawn by: CHRISNGARE B. Arch. (Hons)	Checked by : F. TUNDULI B. Arch. (Hons) M. Arch. (reg. No.A1552)	Checked by : J. MOMANYI B. Arch. (Hons) M. Arch. (reg. No.A1122)
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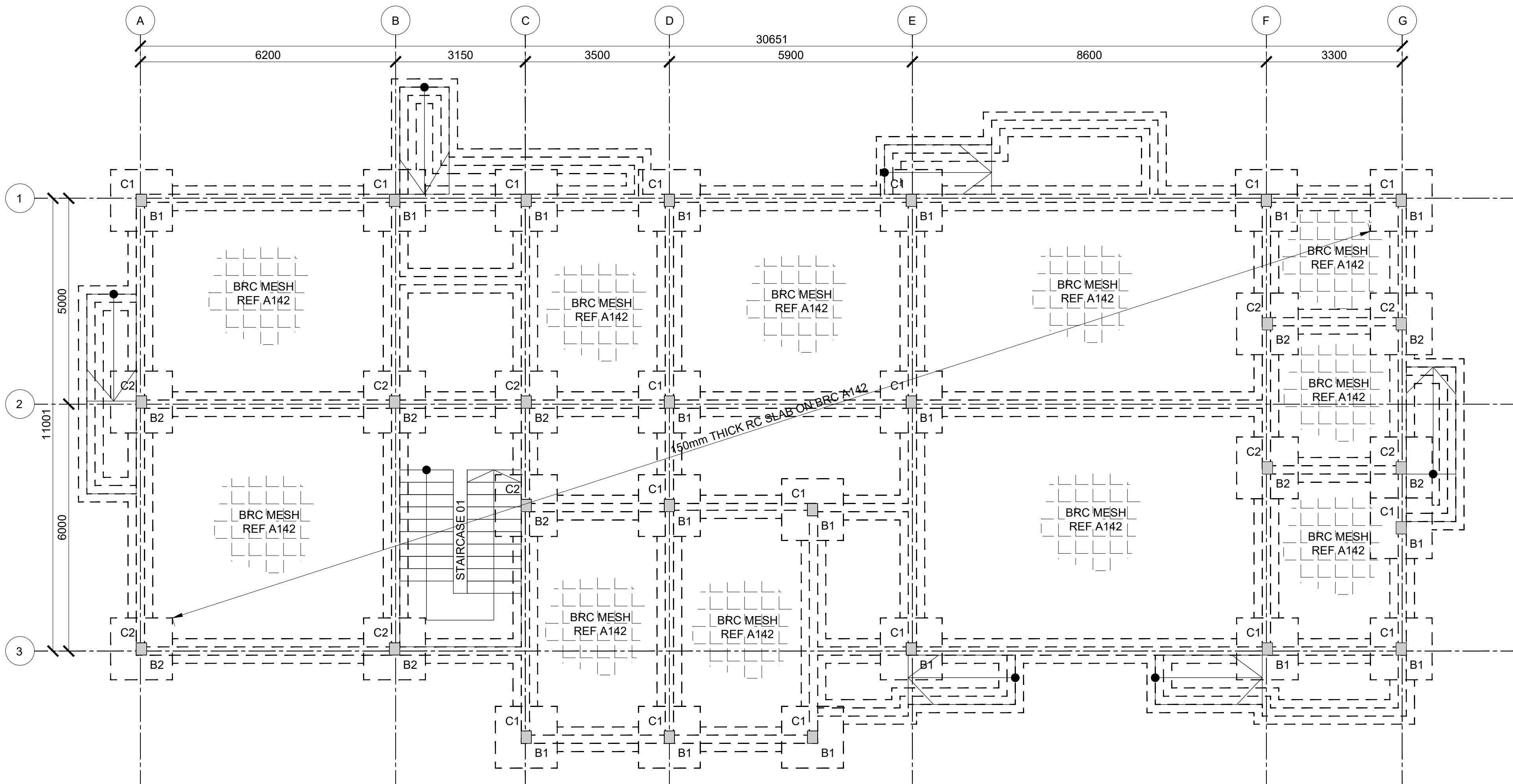
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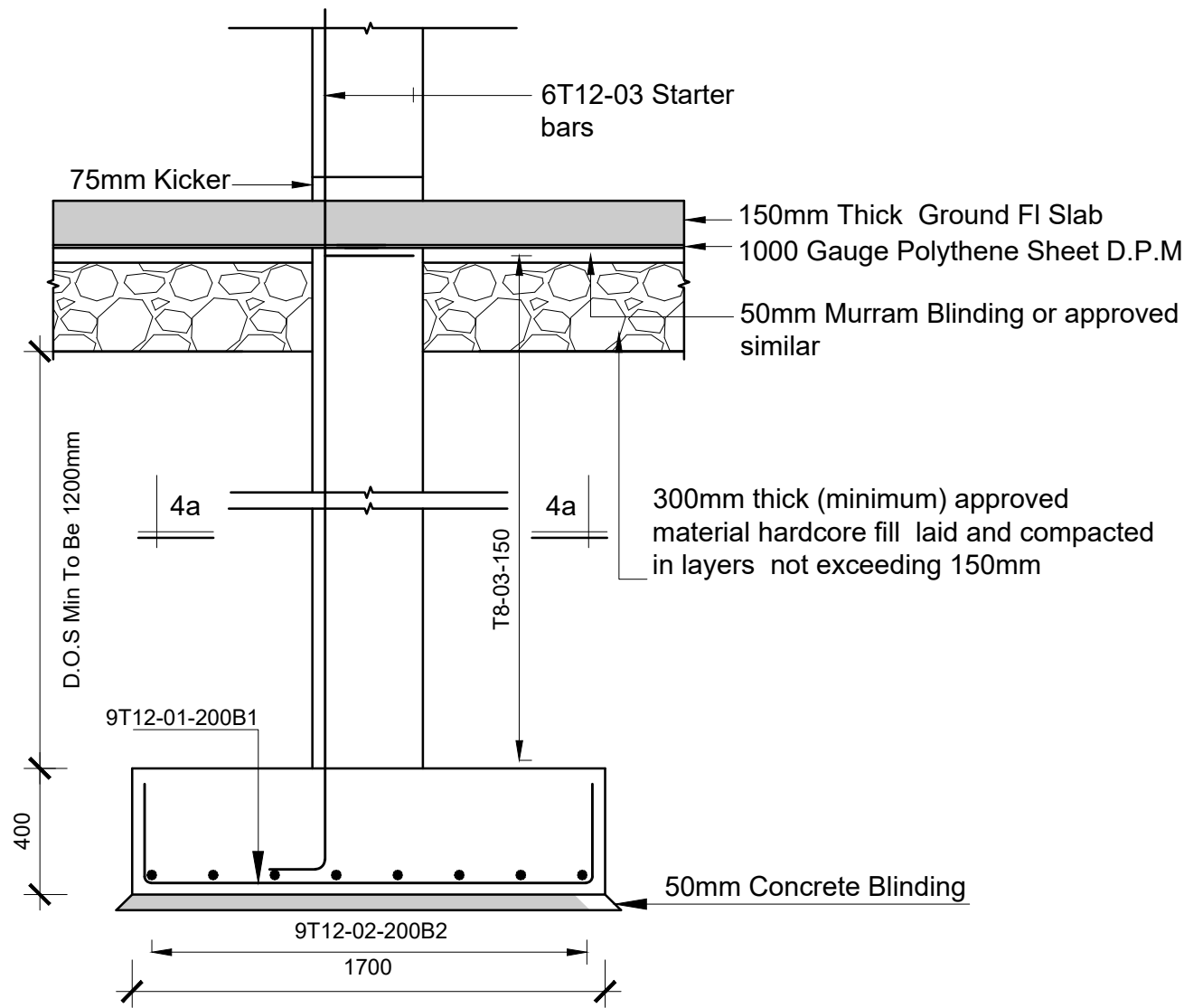
PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.									
PAGE		DRAWING NUMBER		DRAWING TITLE					
1		09-002-01		DRAWING LIST					
2		09-002-02		SITE PLAN					
3		09-002-03		MODERN FISH BANDA - FOUNDATION LAYOUT AND DETAIL					
4		09-002-04		MODERN FISH BANDA - ROOF AND COLUMN DETAIL					
5		09-002-05		MODERN FISH BANDA - ROOF SLAB RC DETAIL					
6		09-002-06		MODERN FISH BANDA - BEAM AND STAIRCASE DETAIL					
7		09-002-07		ABLUTION BLOCK - STRUCTURAL DETAIL					
8		09-002-08		GATE HOUSE - STRUCTURAL DETAIL					
9		09-002-09		UNDERGROUND WATER TANK					
10		09-002-10		CIVIL WORKS 1					
11		09-002-11		BOUNDARY WALL DETAIL					
12		09-002-12		CIVIL WORKS 2					
13		09-002-13		CIVIL WORKS 3					
14		09-002-14		BIO-DIGESTER AND SOAK-PIT DETAIL					
15		09-002-15		BIO-REACTOR AND INTERCEPTOR DETAIL					
16		09-002-16		JETTY LAYOUT, SLAB AND BEAM DETAIL					
17		09-002-17		JETTY SECTION AND PILE DETAIL					
18		09-002-18		PUMP ROOM DETAIL					
19		09-002-19		TYPICAL RECLAMATION SECTION					
20		09-002-20		GENERATOR ROOM					
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 MUKOWE FISH LANDING SITE, LAMU COUNTY.		DRAWING TITLE:- DRAWING LIST	
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.		Stairs, Slabs & Walls Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm		8. Safe Bearing Pressure taken to be 250 KN/m². 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/mm².		Designed by: DAN Drawn by: DAN Checked by: HOH Scale: AS SHOWN		Rev Description By Date D C B A	
								DRAWING NO. 09-002-01	



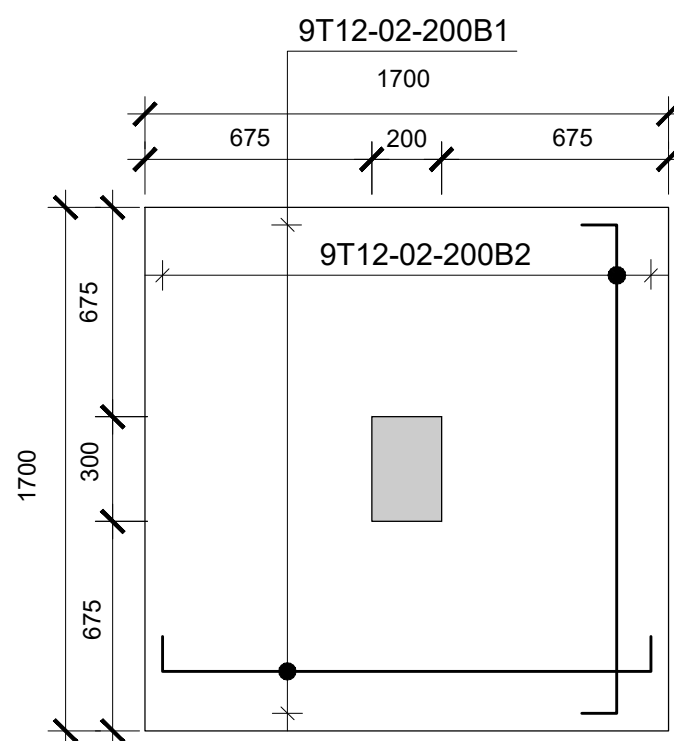
<p>Consultant:- ARPRIM CONSORTIUM P.O. Box 12969-00100, Nairobi, KENYA. Tel: 02 608 906 Fax: 02 608 907 E-mail: info@arprimconsultants.com</p>	<p>CLIENT:- STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.</p>	<p>PROJECT:- PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFSED) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.</p>	<p>PROJECT TITLE:- PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.</p> <p>DRAWING TITLE:- SITE PLAN</p>	<p>NOTES</p> <ol style="list-style-type: none">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: <p>Stairs, Slabs & Walls = 35mm Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm</p> <ol style="list-style-type: none">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. <p>8. Safe Bearing Pressure taken to be 250 KN/m².</p> <ol style="list-style-type: none">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/mm².	<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. 09-002-02</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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Scale	AS SHOWN	B																																	
		A																																	



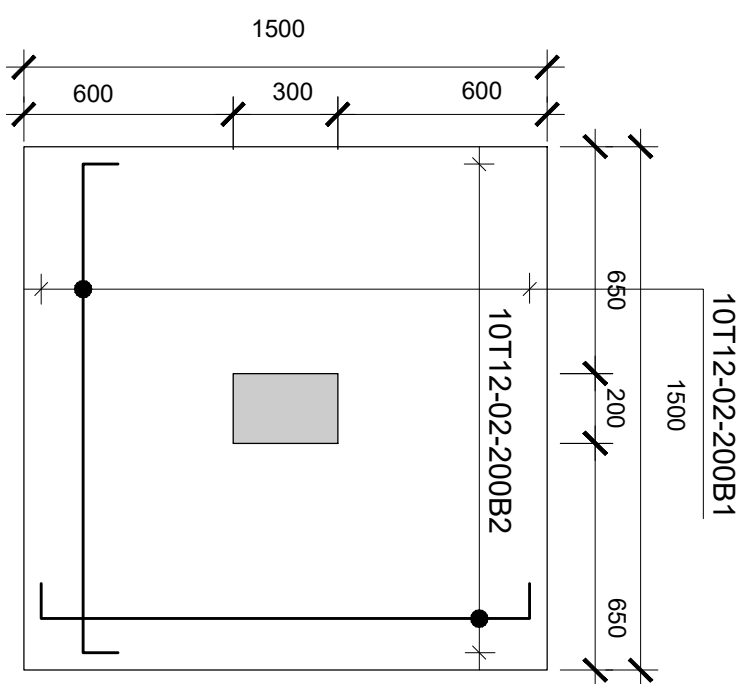
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(SCALE 1:100)



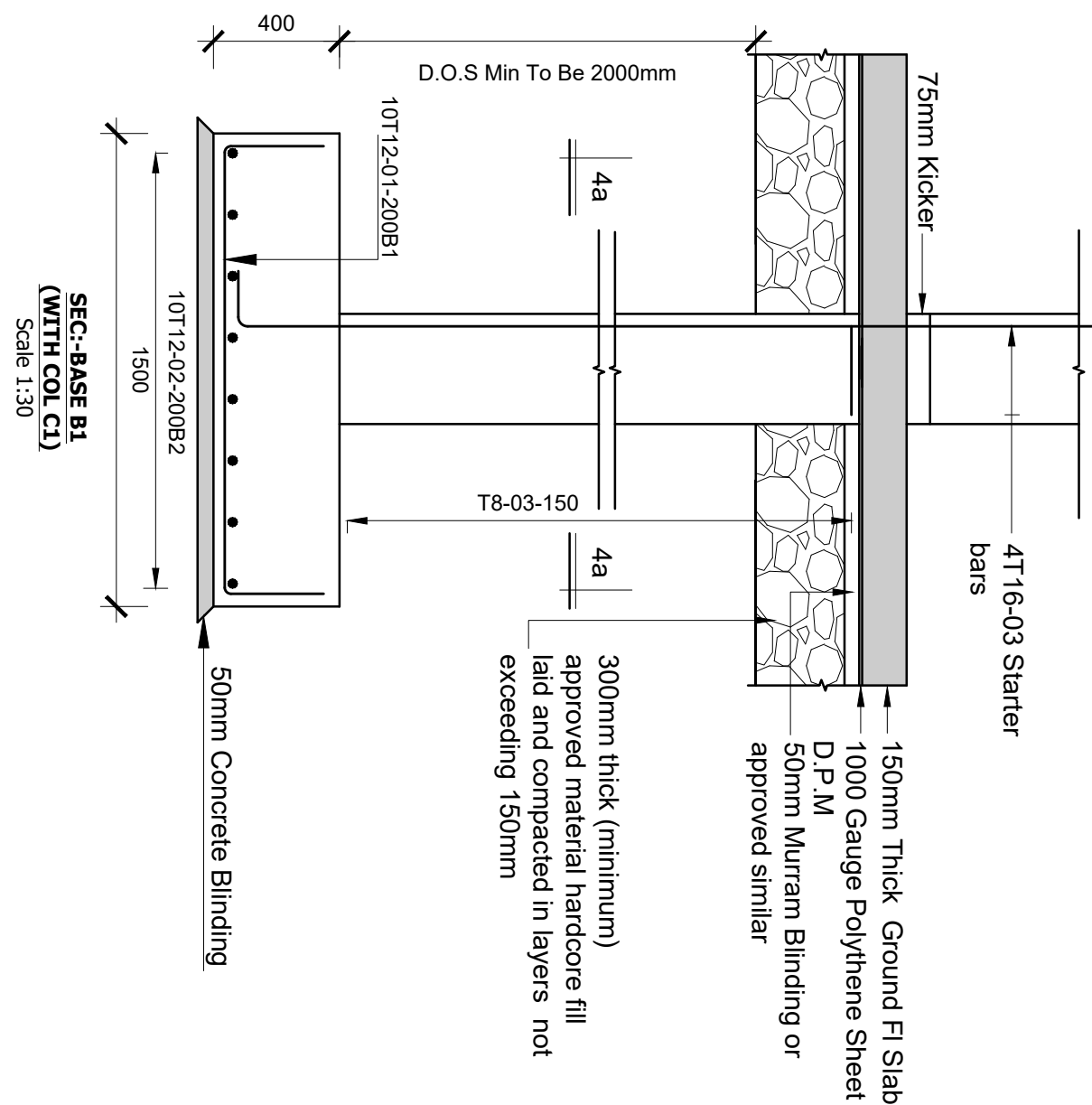
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(WITH COL C2)
Scale 1:30



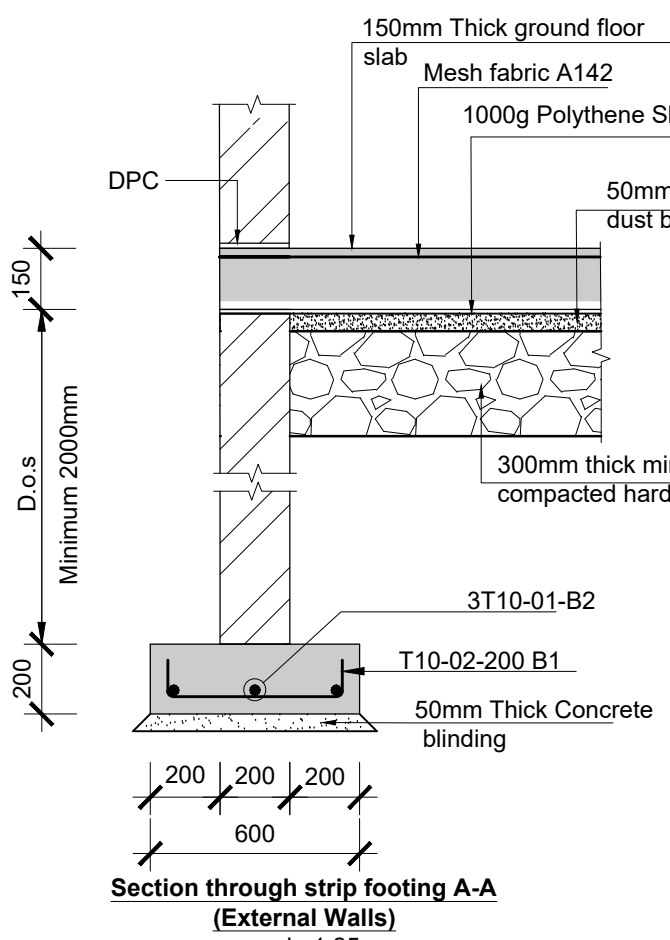
PLAN-BASE B2
10 No.
Scale 1:30



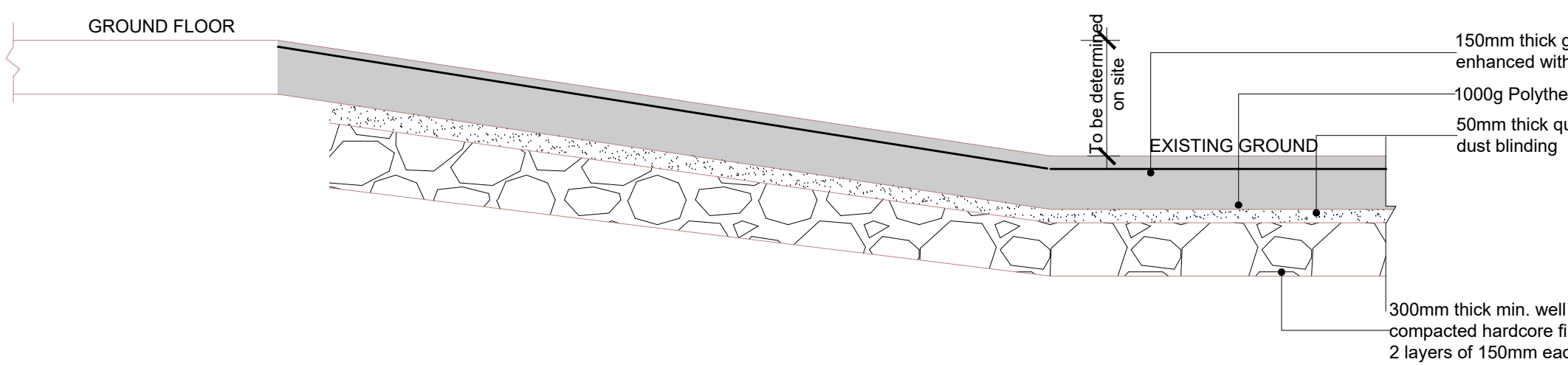
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Scale 1:30



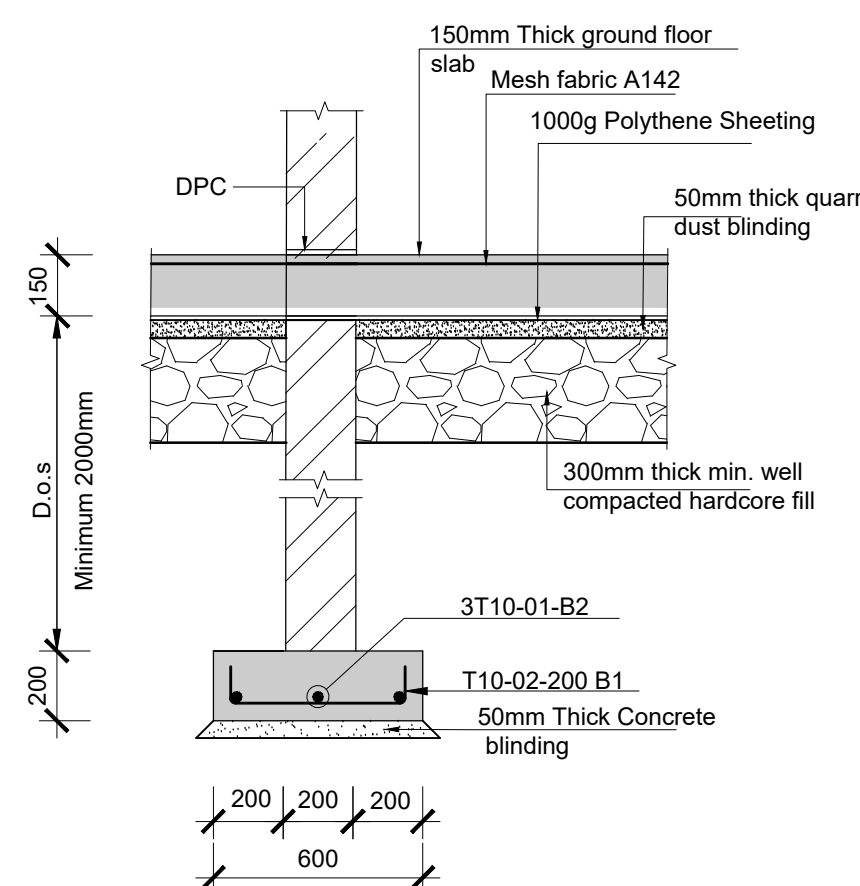
SEC-BASE B1
(WITH COL C1)
Scale 1:30



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



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



Section through strip footing B-B
(Internal Walls)
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 (KEMFSD) NATIONAL
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.

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

NOTES

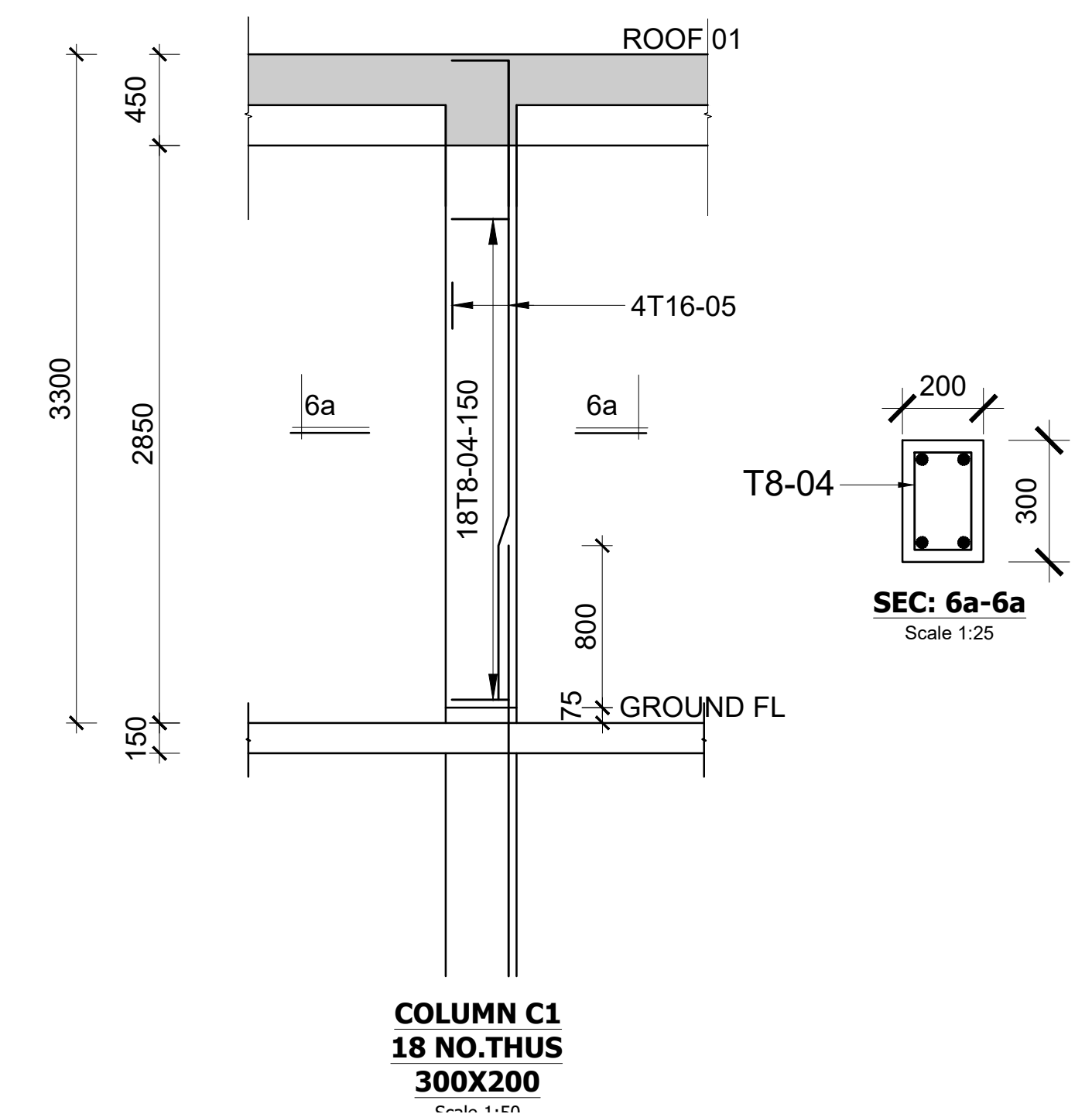
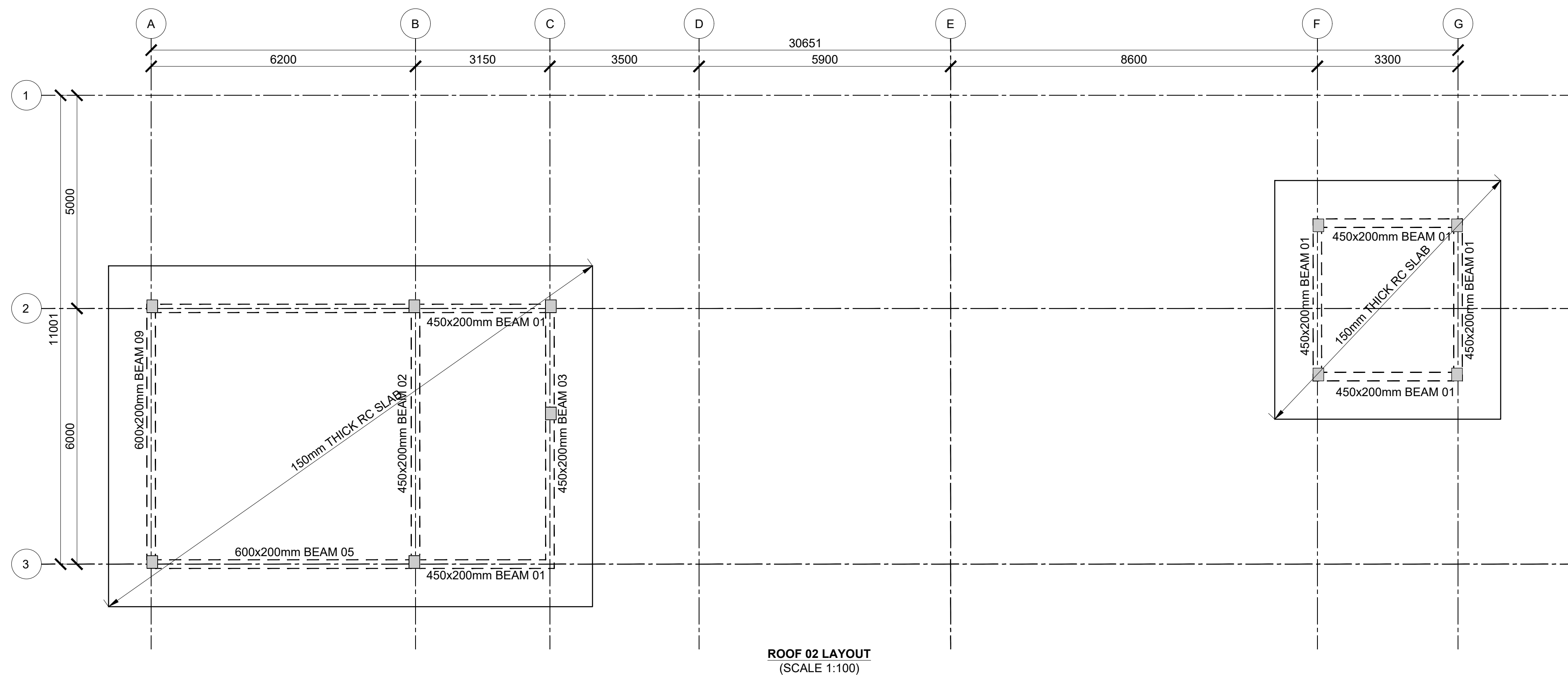
1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.
2. All dimensions are in millimetres unless specified otherwise.
3. All levels are indicated in m unless specified otherwise.
4. Minimum cover to all reinforcement 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/m².
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/mm².

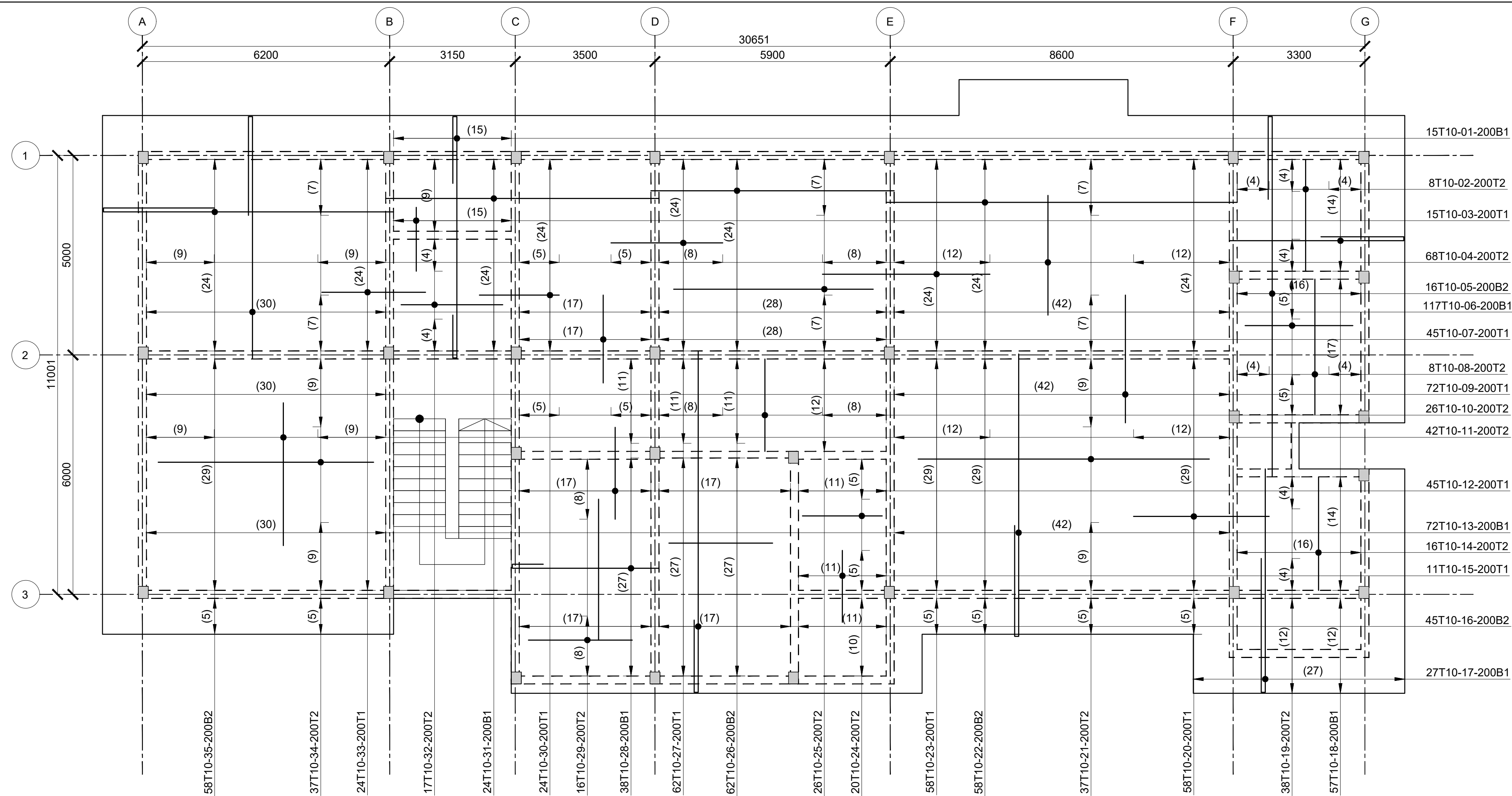
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Checked by	HOH	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO. 09-002-03

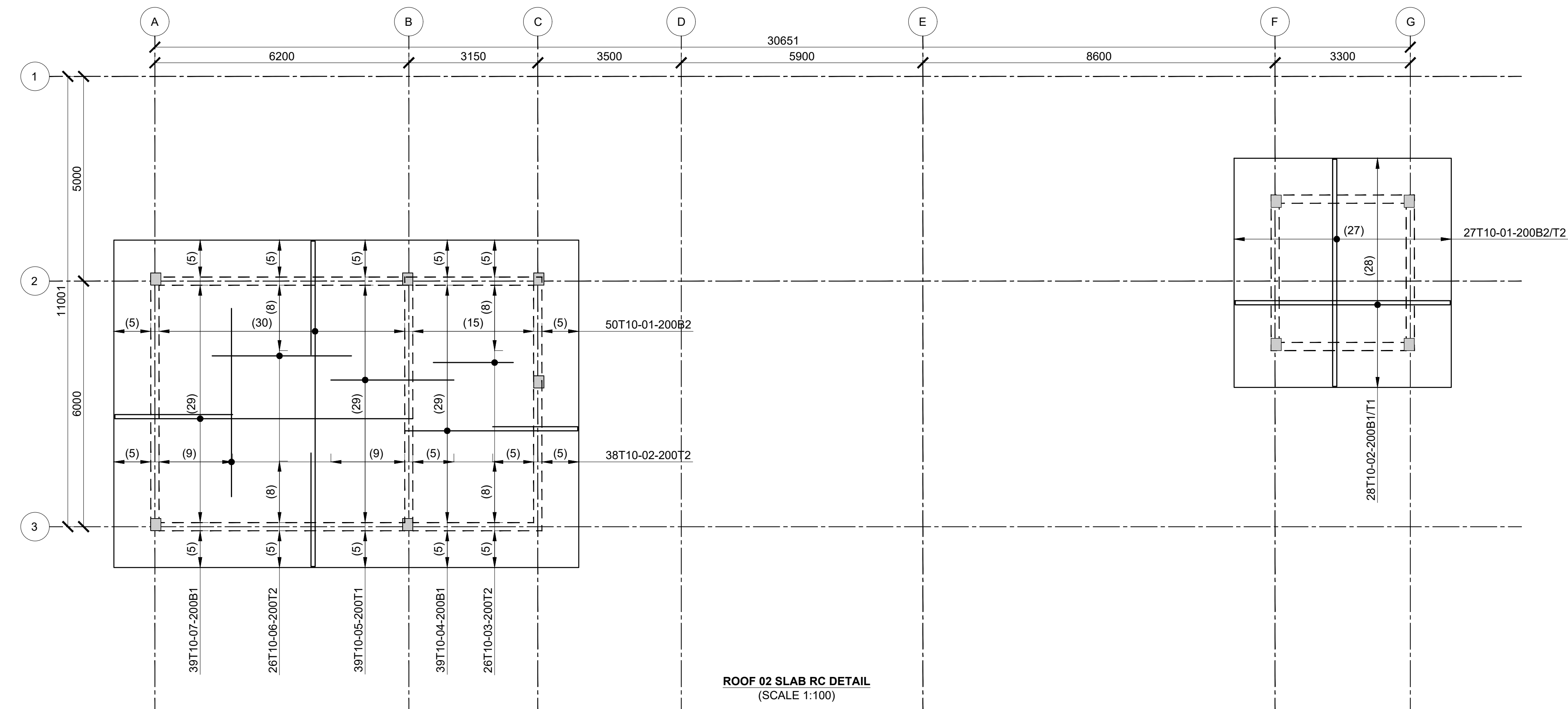


Designed by	DAN	Rev	Description	By	Date
Drawn by	DAN	D			
Checked by	HOH	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO. 09-002-04



ROOF 01 SLAB RC DETAIL
(SCALE 1:100)



ROOF 02 SLAB RC DETAIL
(SCALE 1:100)

NOTES

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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 ± 5 mm.
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/m².
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/mm².

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.**

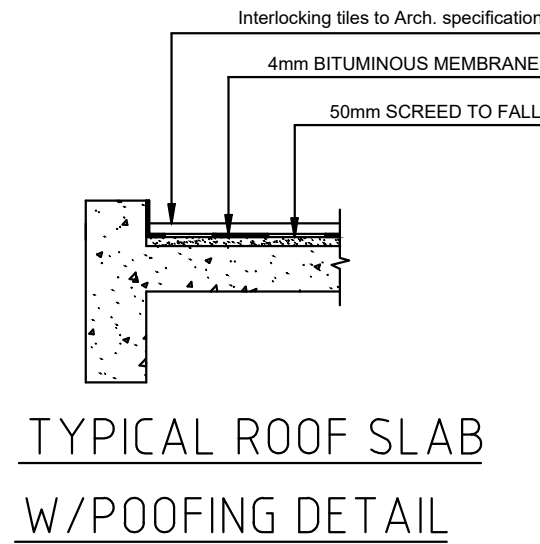
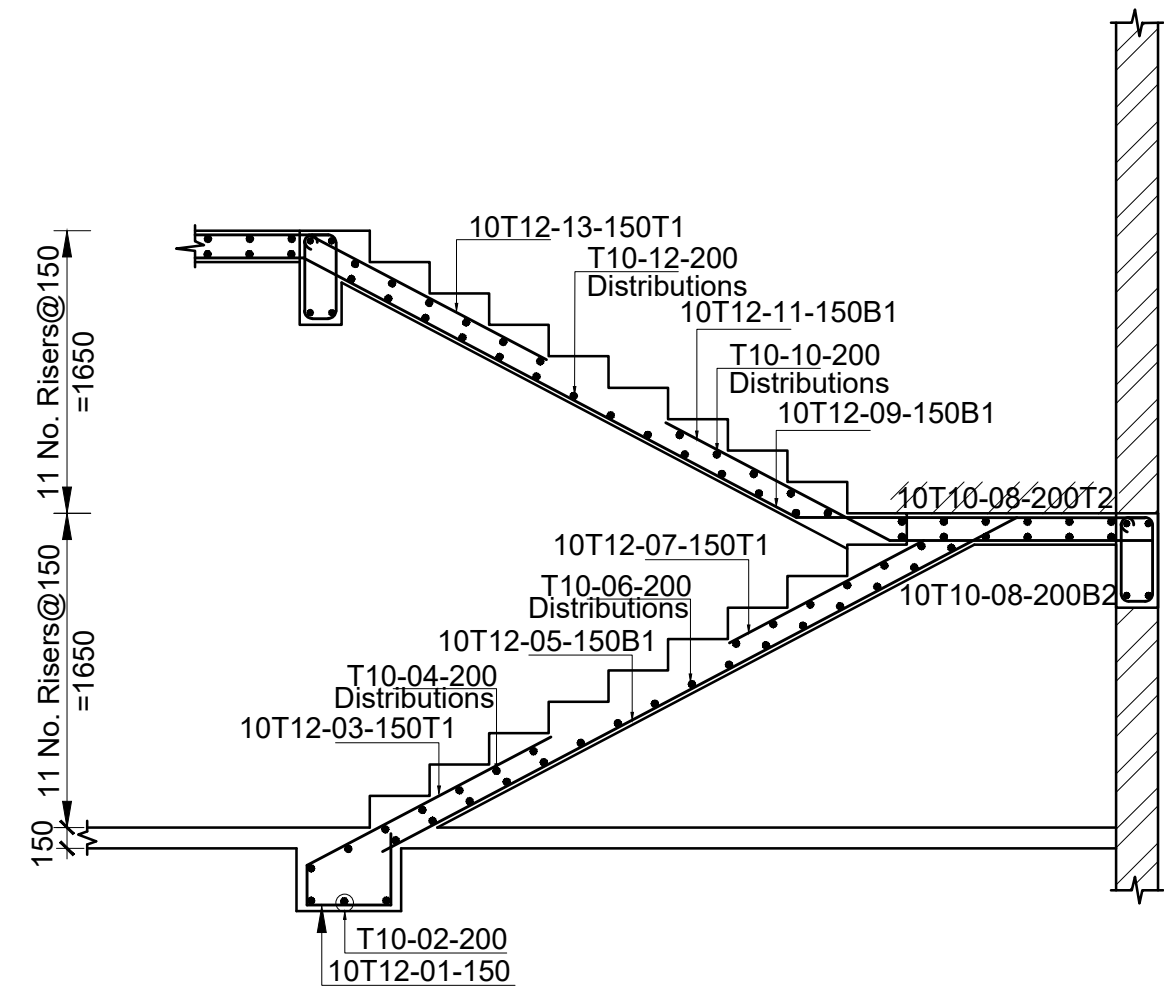
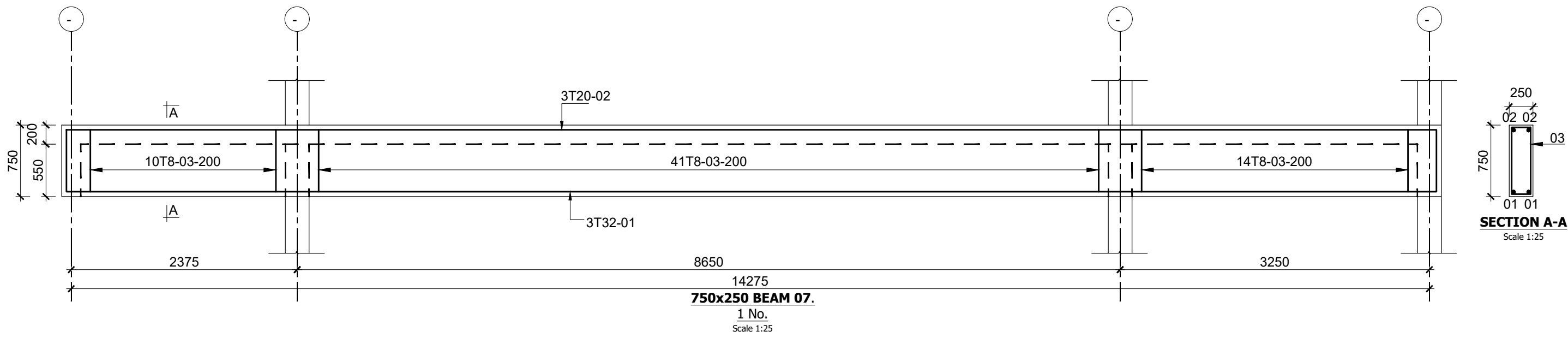
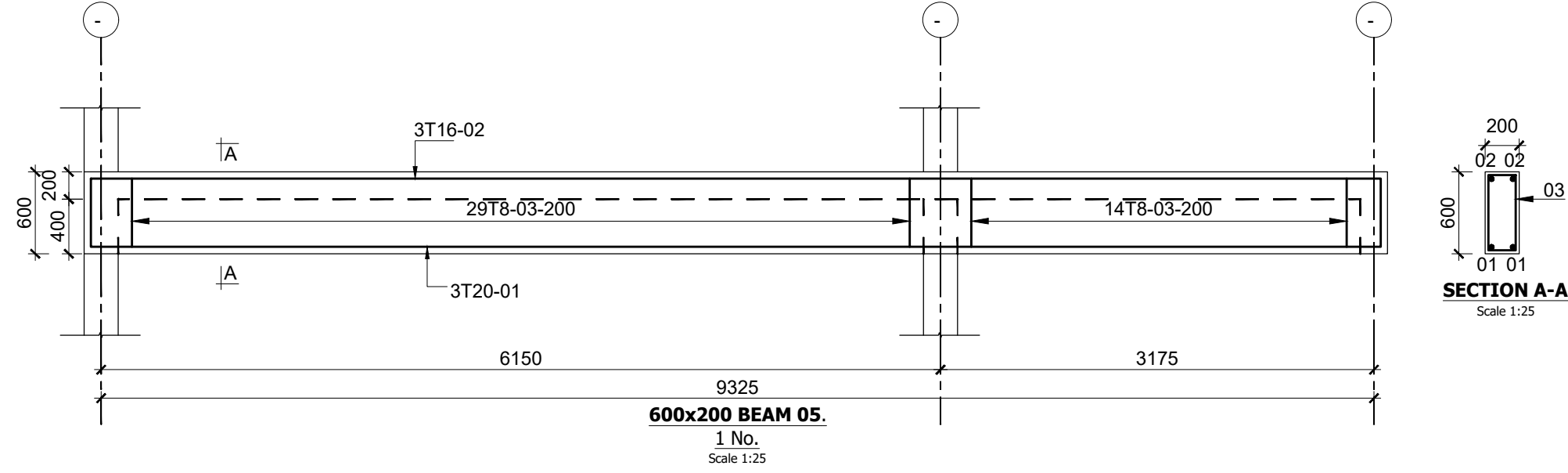
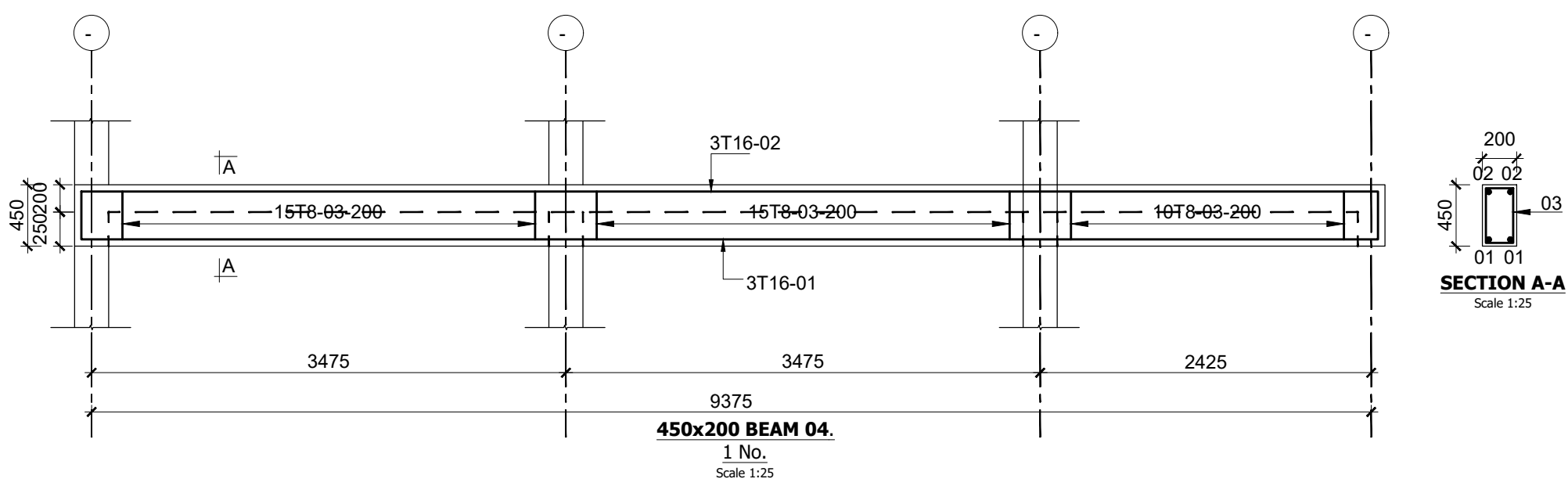
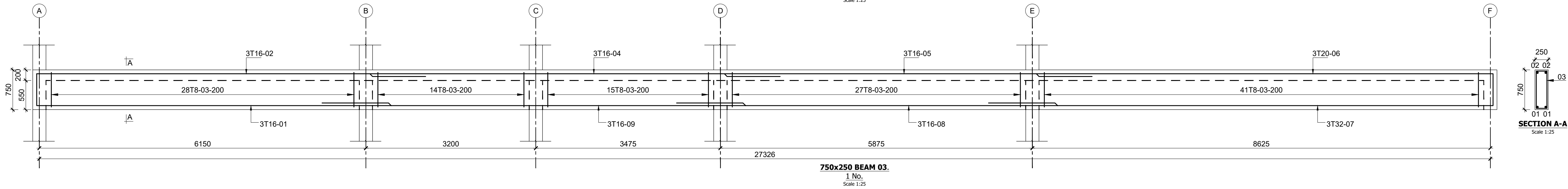
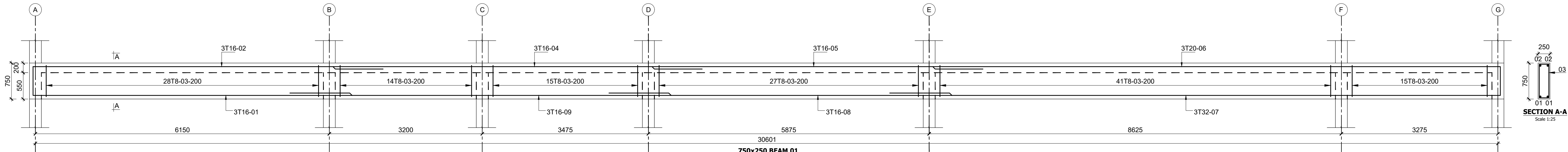
PROJECT:-
**PROPOSED KENYA MARINE FISHERIES AND
SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.

DRAWING TITLE:-
MODERN FISH BANDA - ROOF SLAB RC DETAIL

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

DRAWING NO. 09-002-05



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 MUKOWE FISH LANDING SITE, LAMU COUNTY.

DRAWING TITLE:-
MODERN FISH BANDA - BEAM AND STAIRCASE 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
Beams (main bars) = 35mm
Post-tensioned beams = 40mm
Columns (main bars) = 40mm
Foundations = 75mm

5. Maximum tolerance on concrete cover is +/- 5mm.

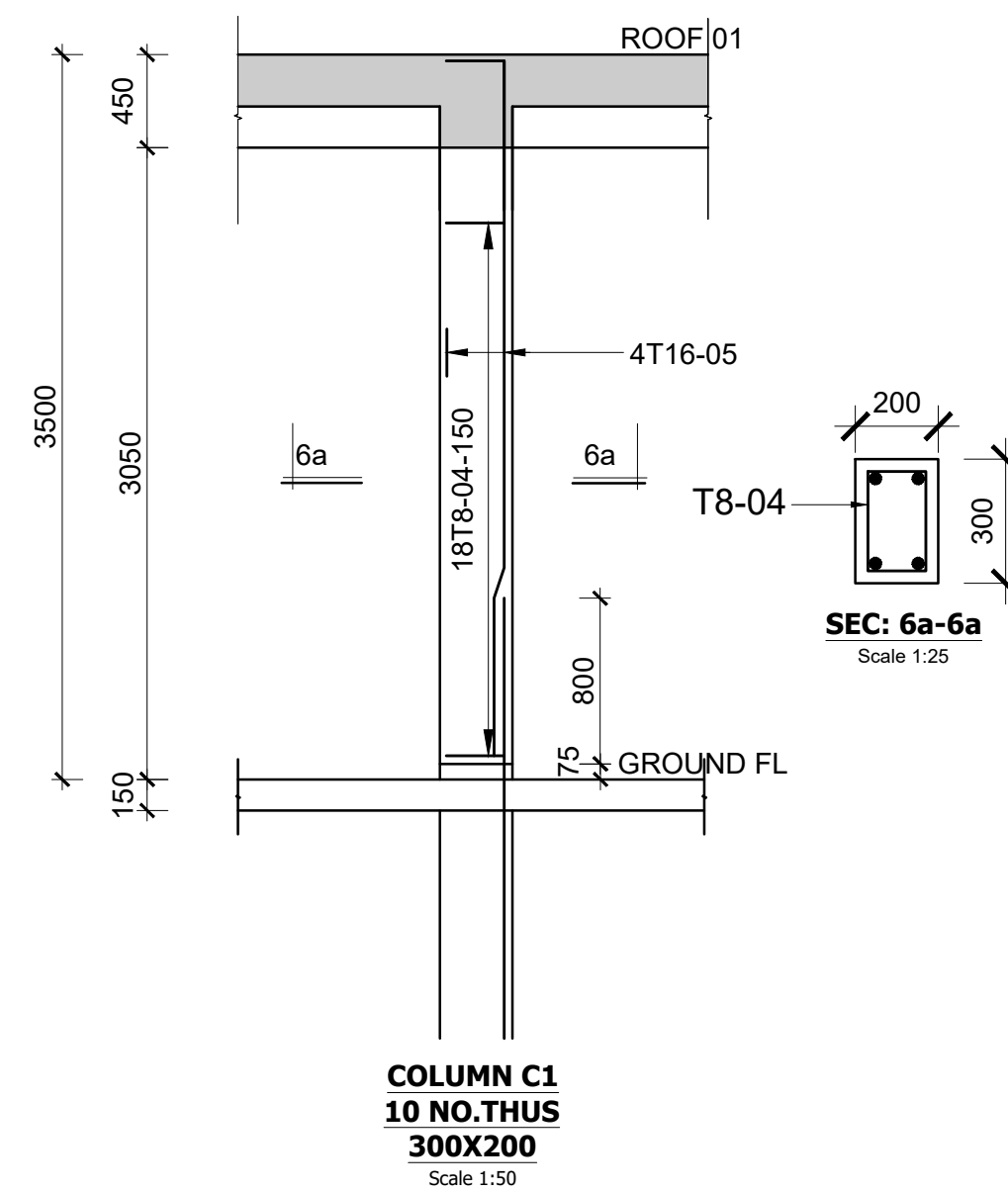
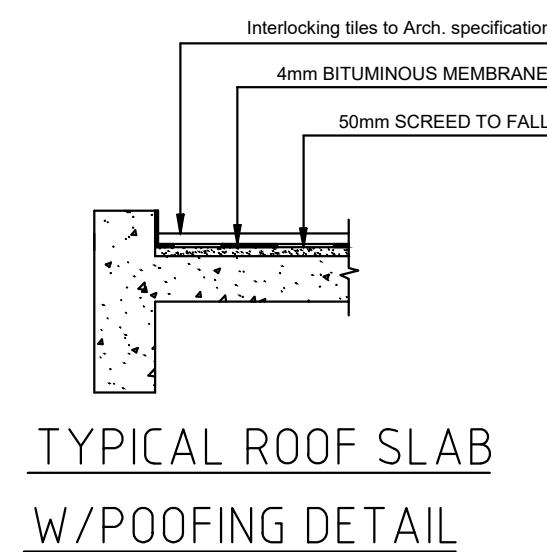
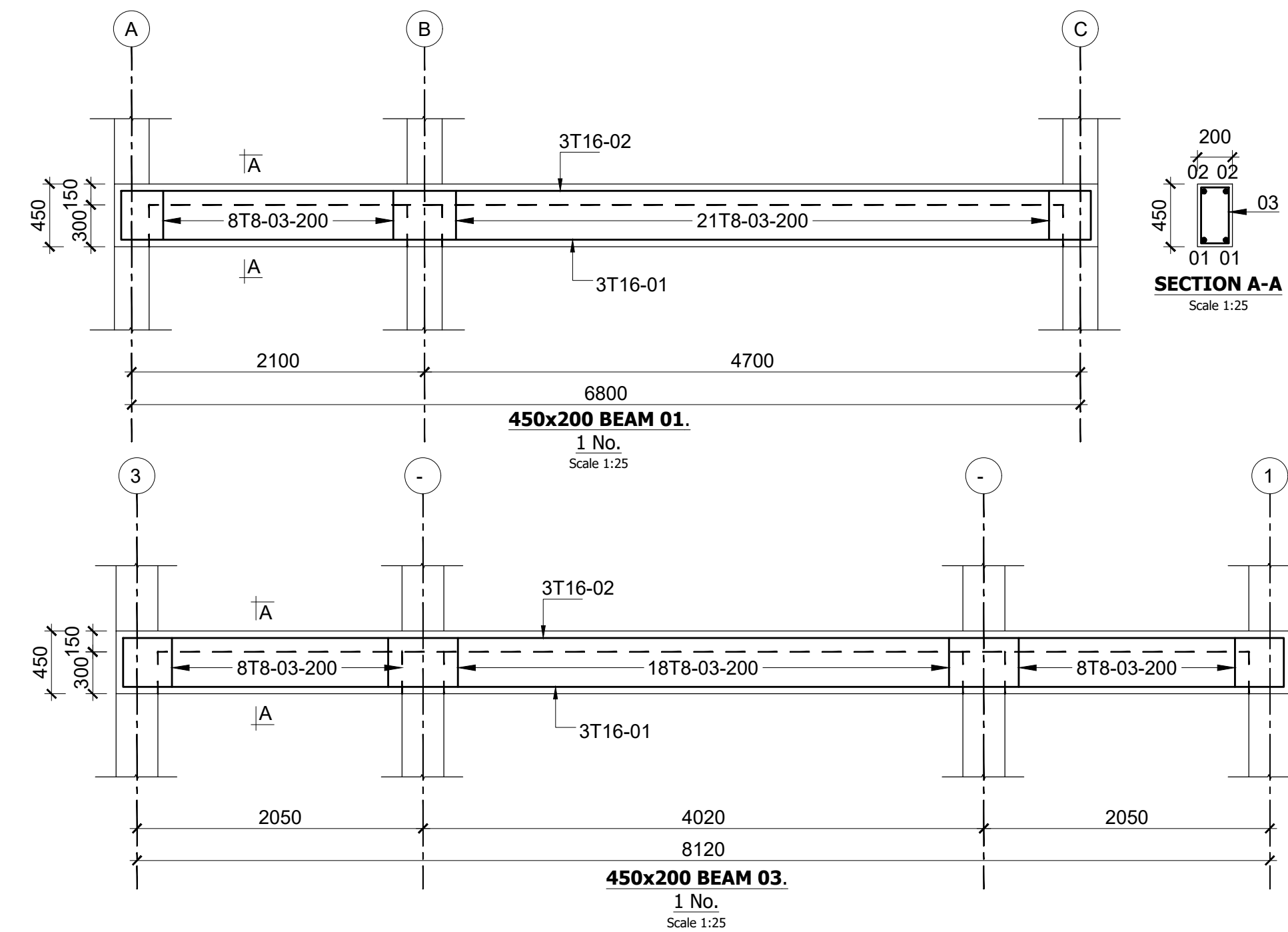
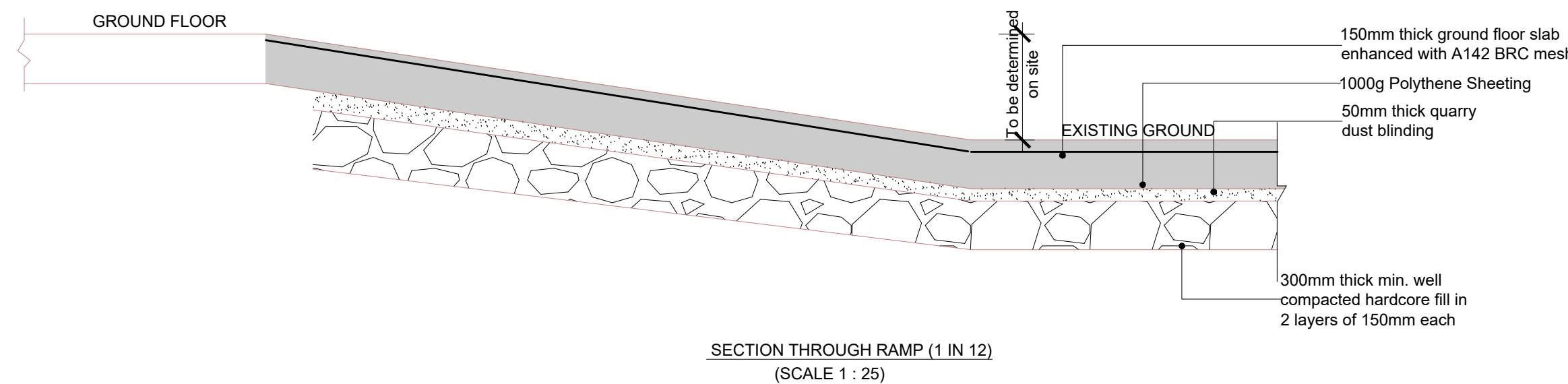
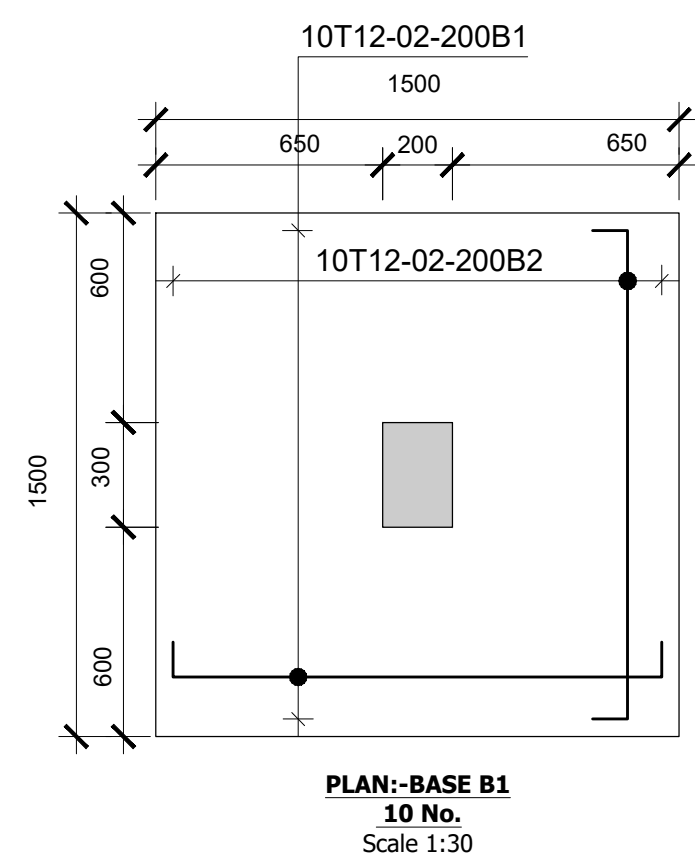
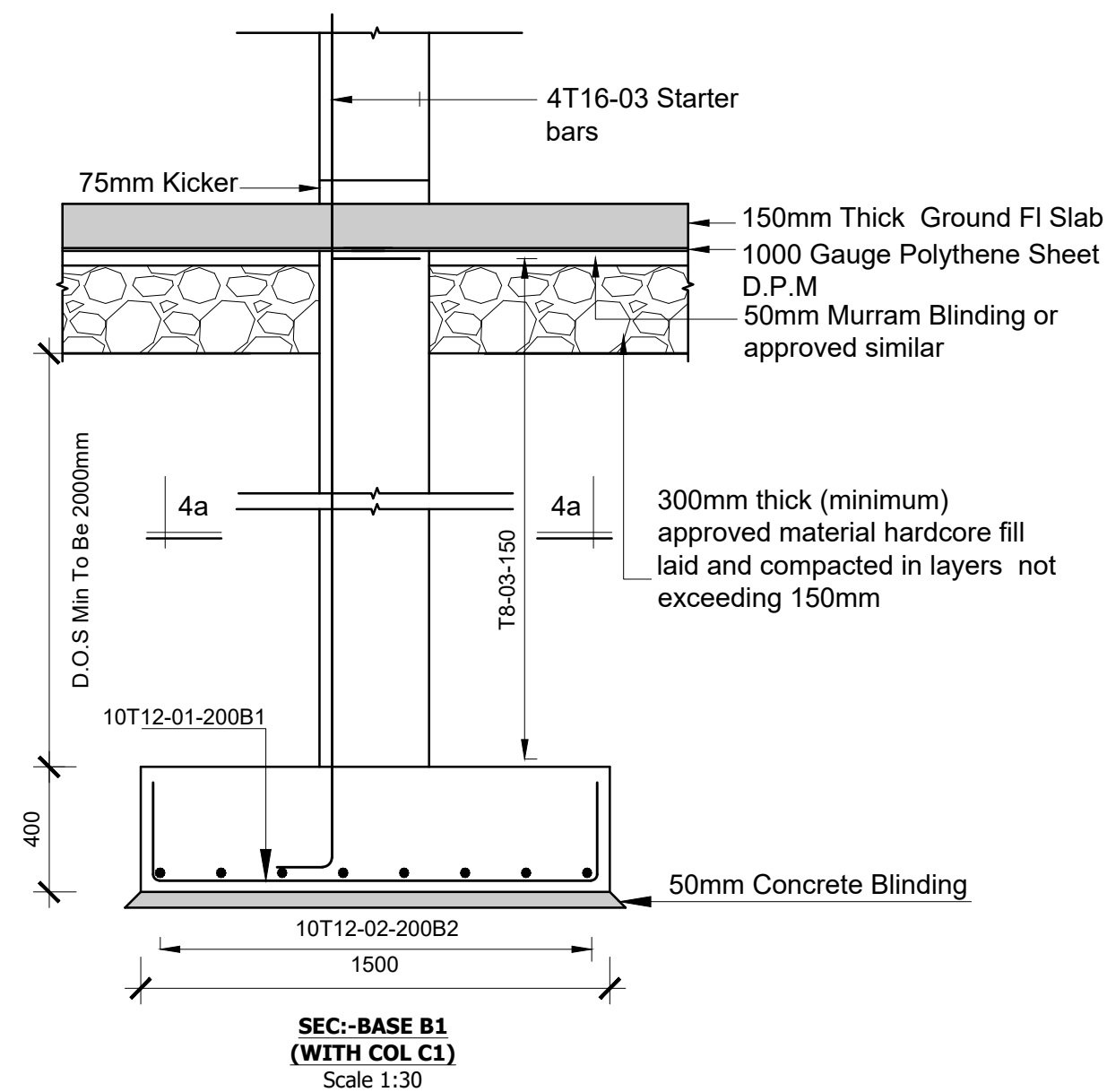
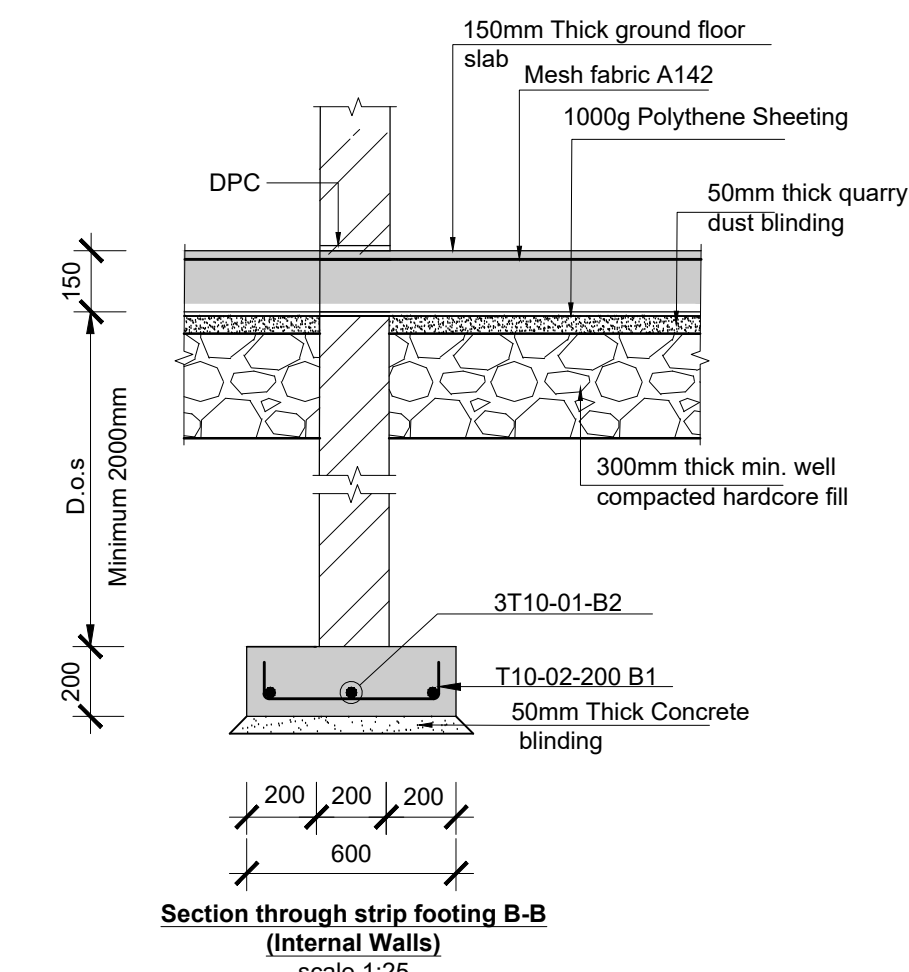
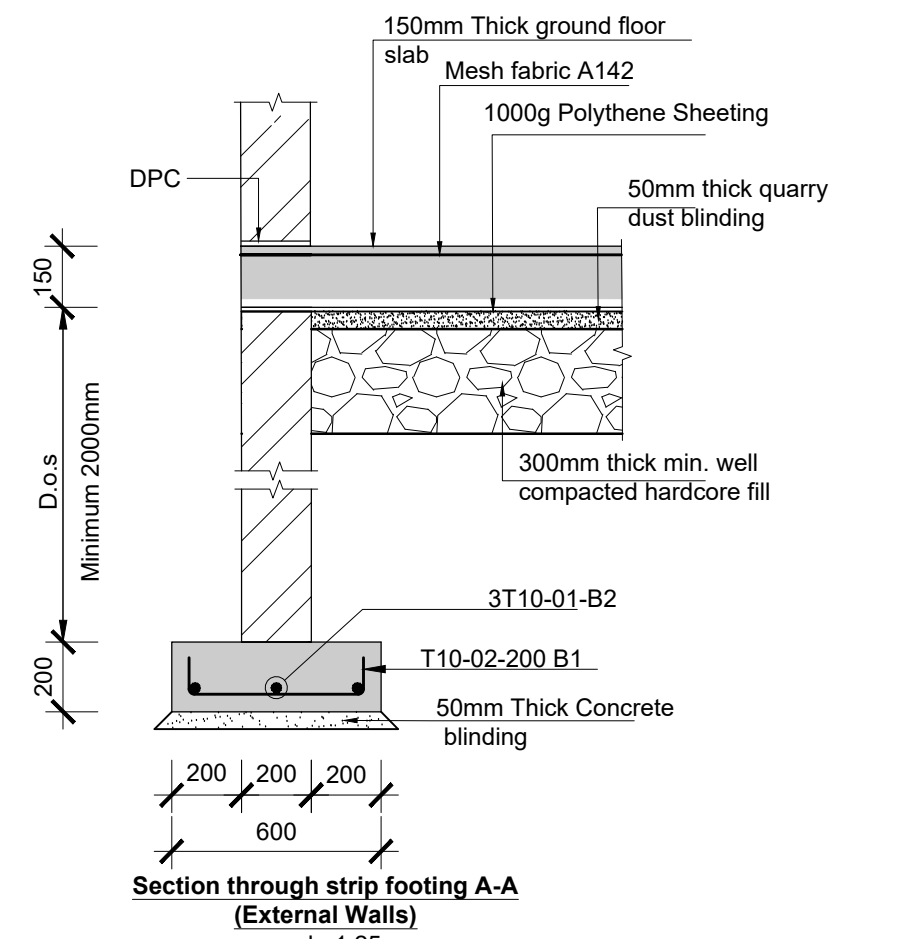
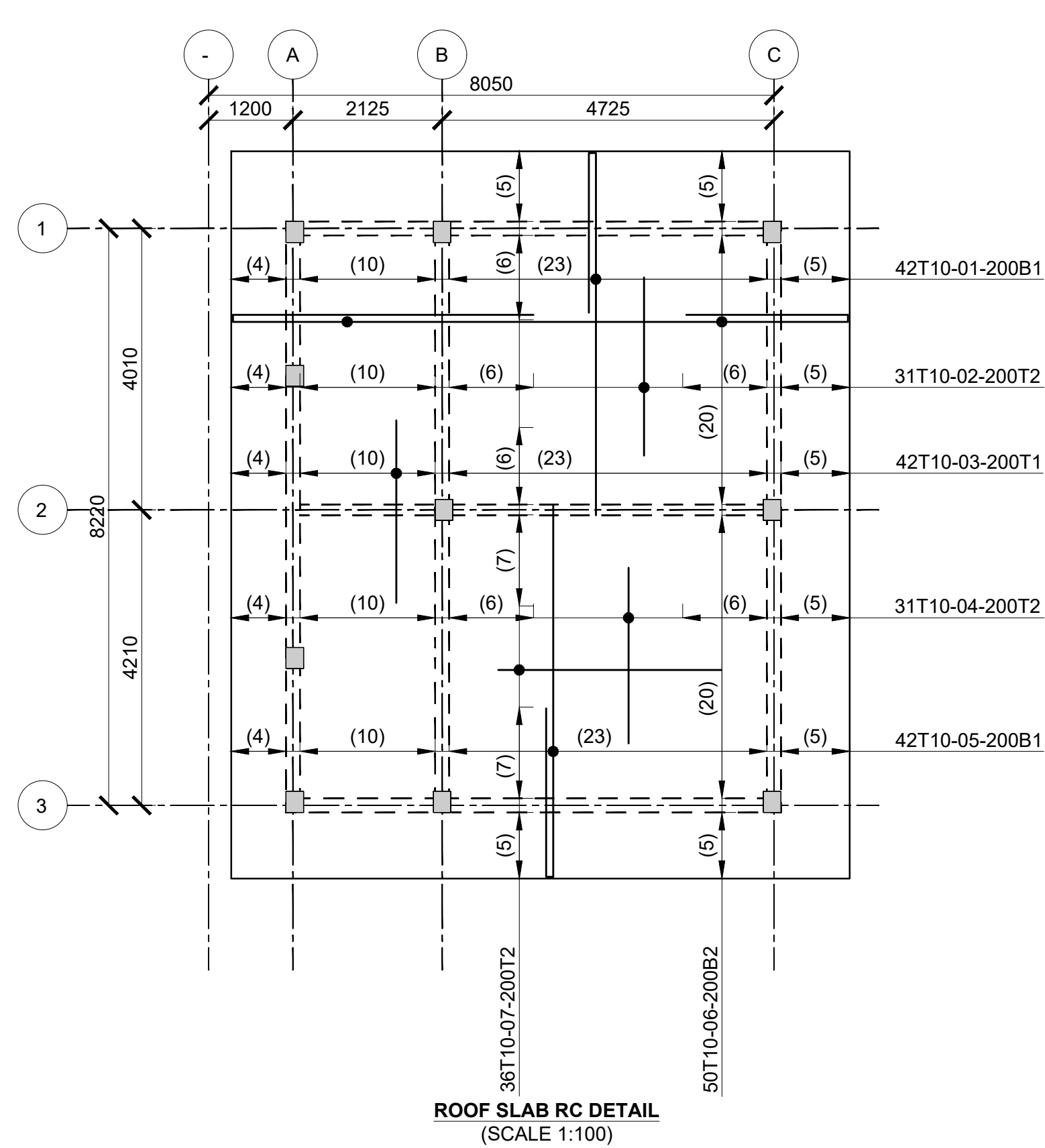
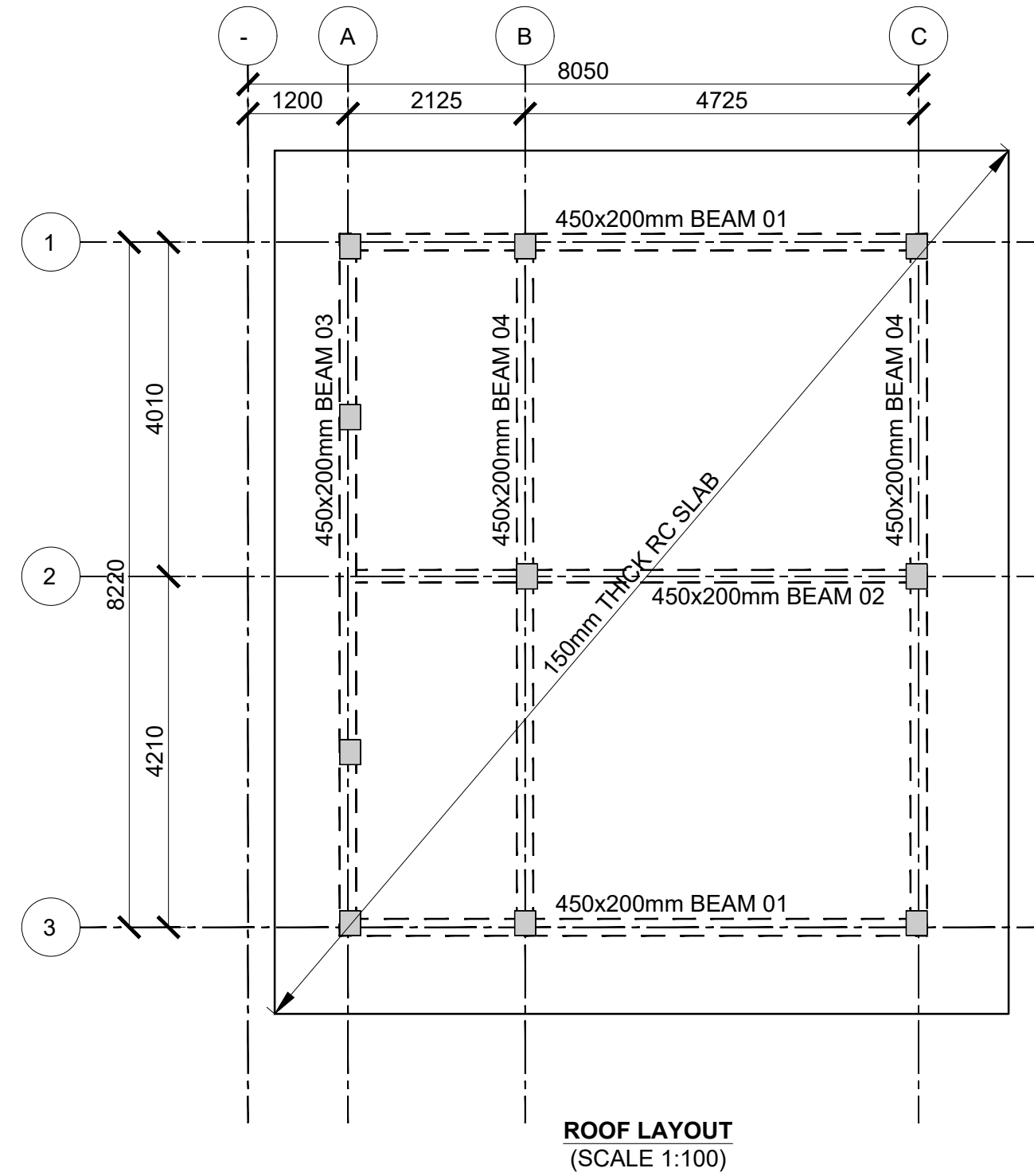
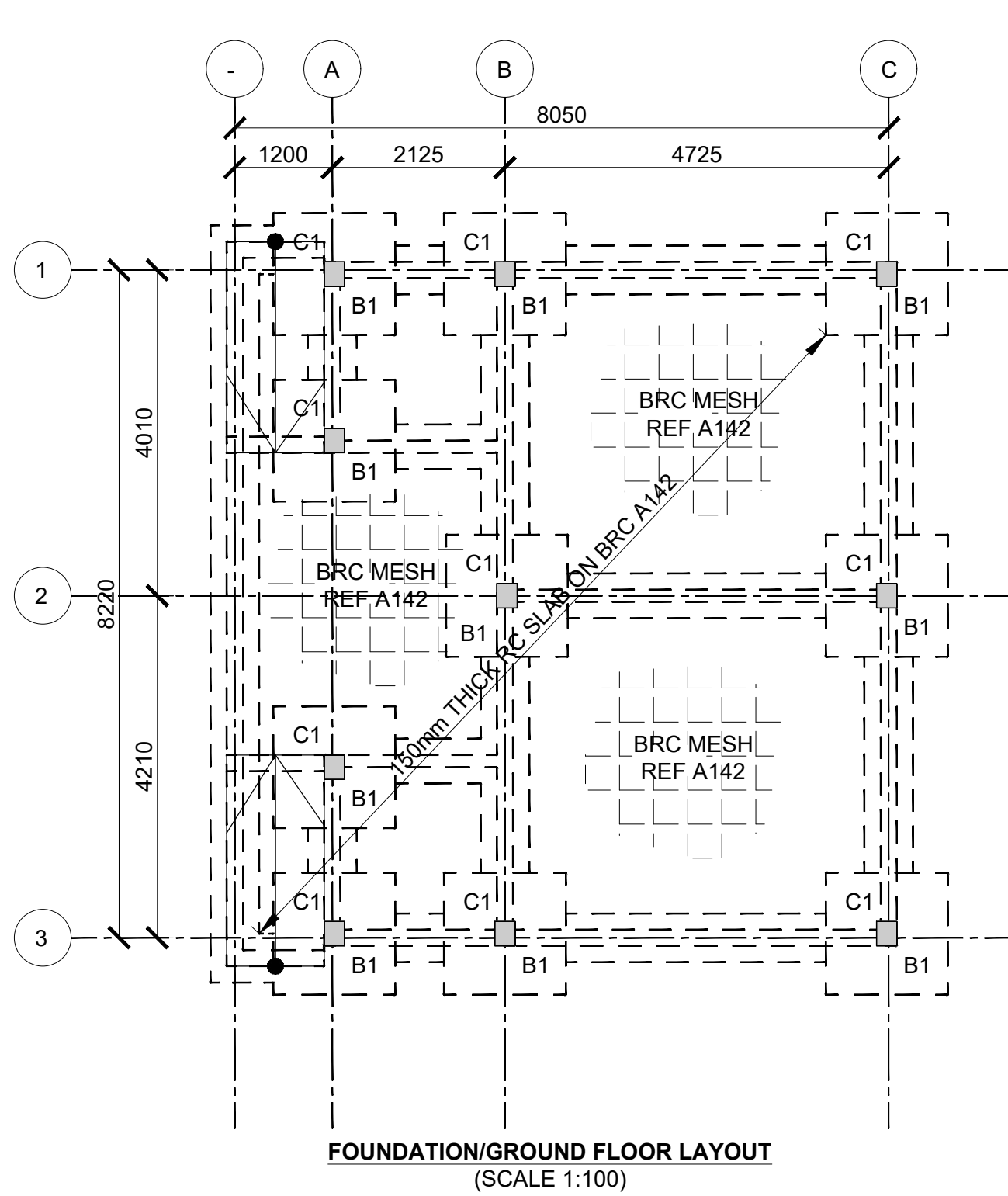
6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 and fabric mesh to be made from cold worked steel bars in accordance with BS 4483.

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

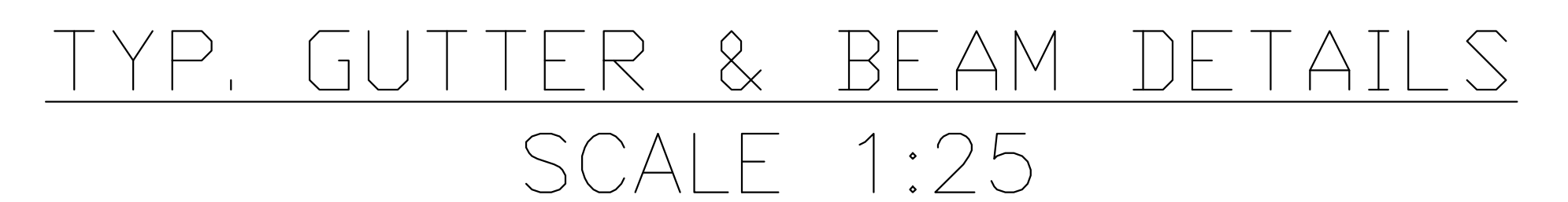
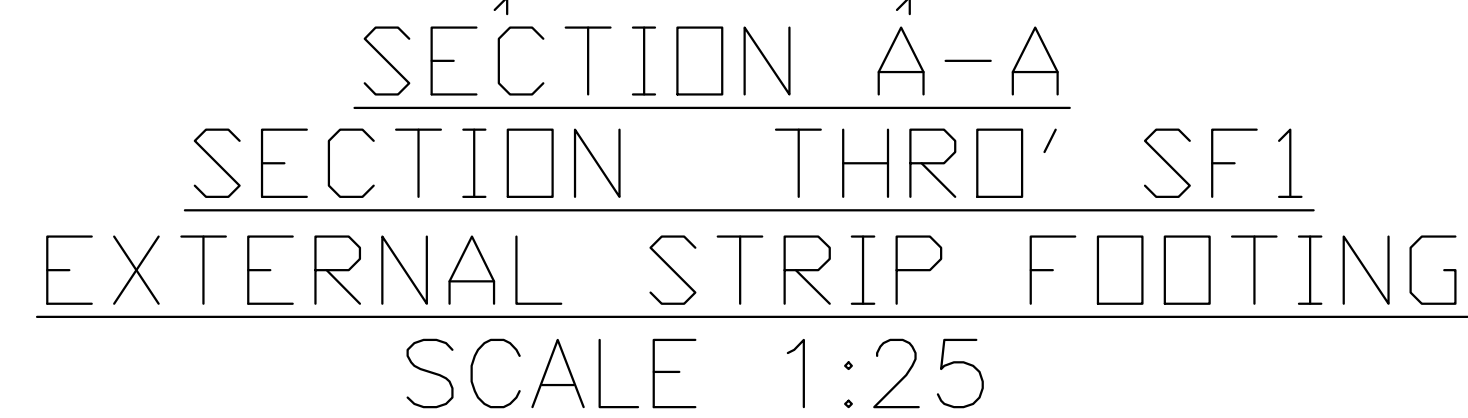
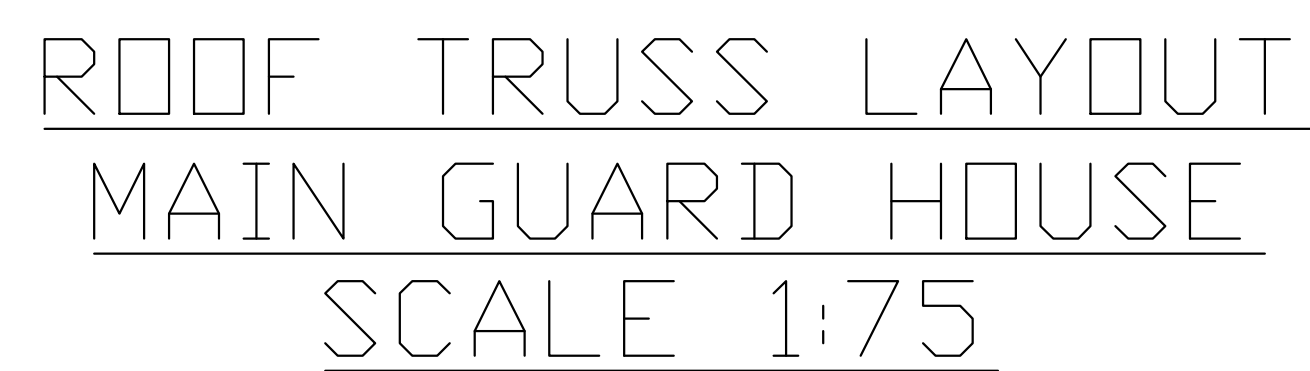
8. Safe Bearing Pressure taken to be 250 KN/m².
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 25 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm².

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

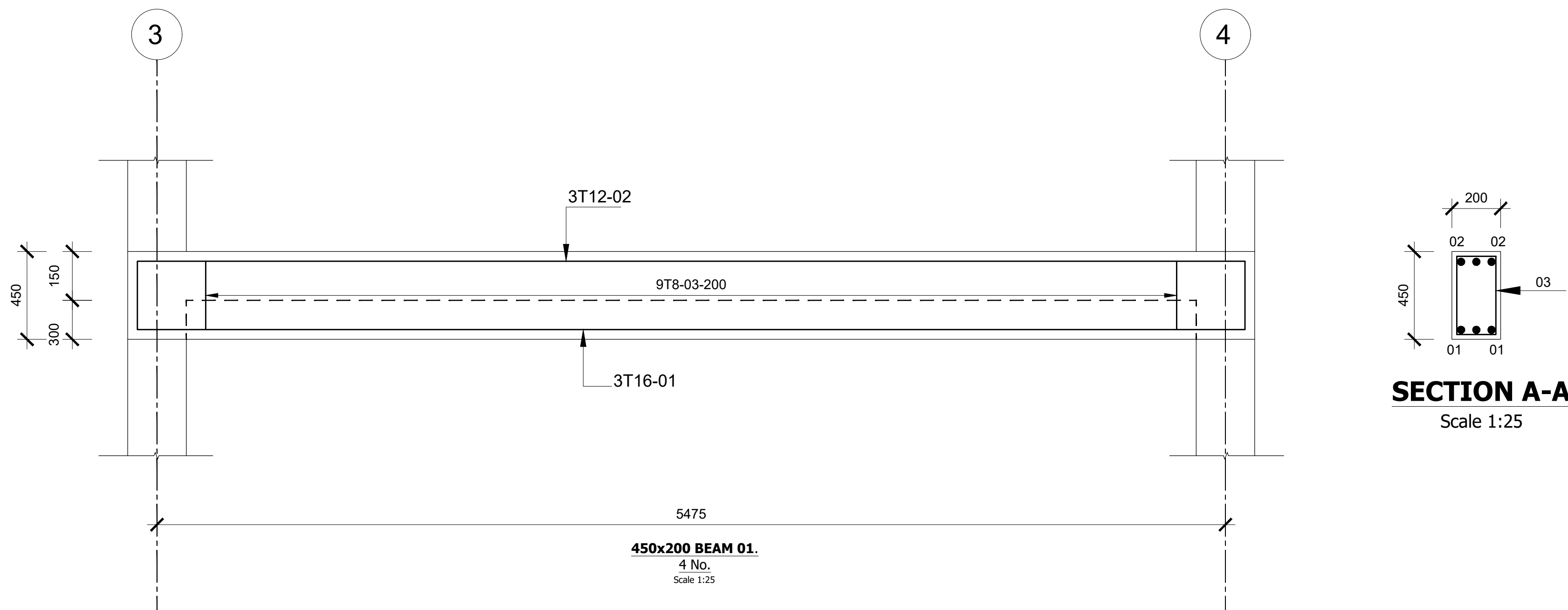
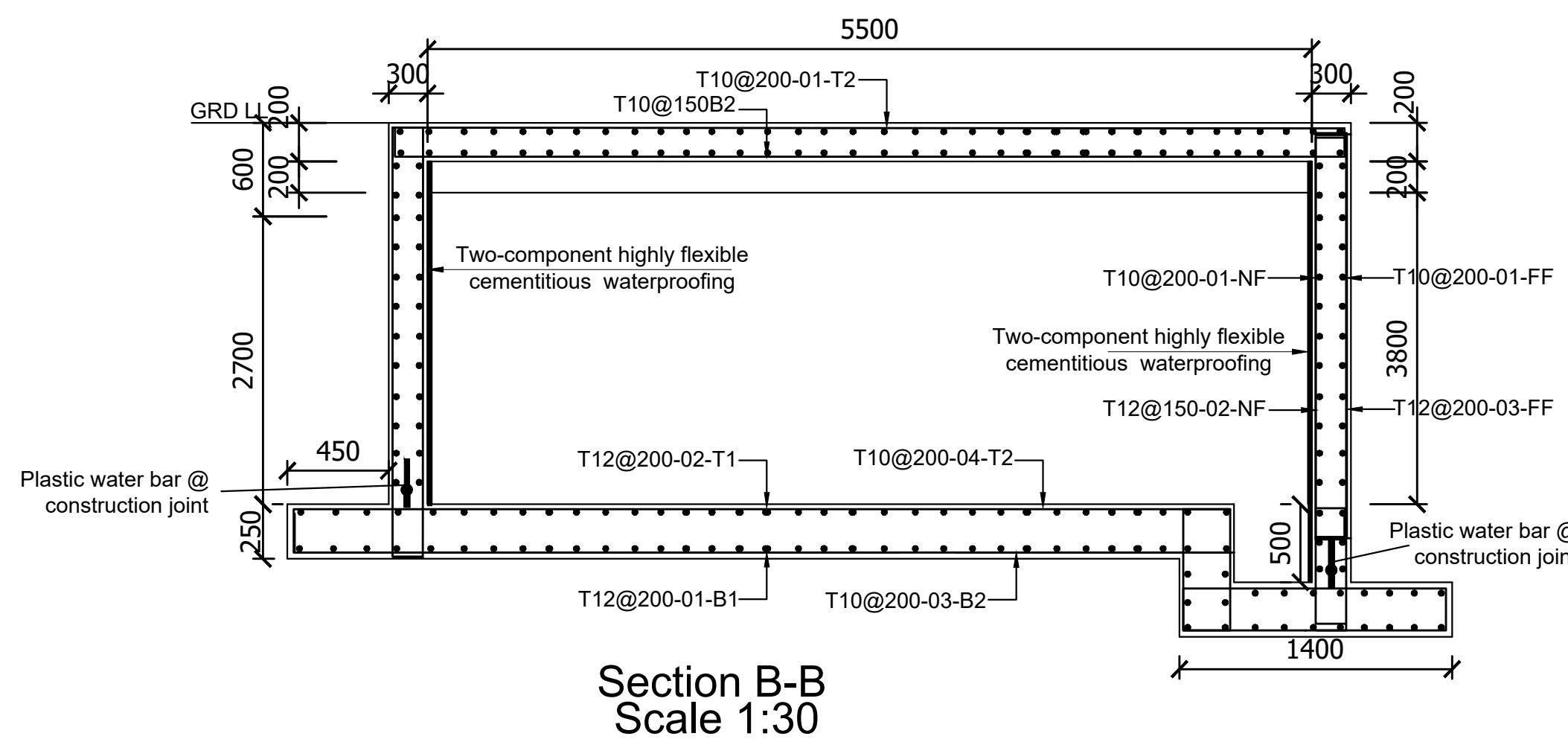
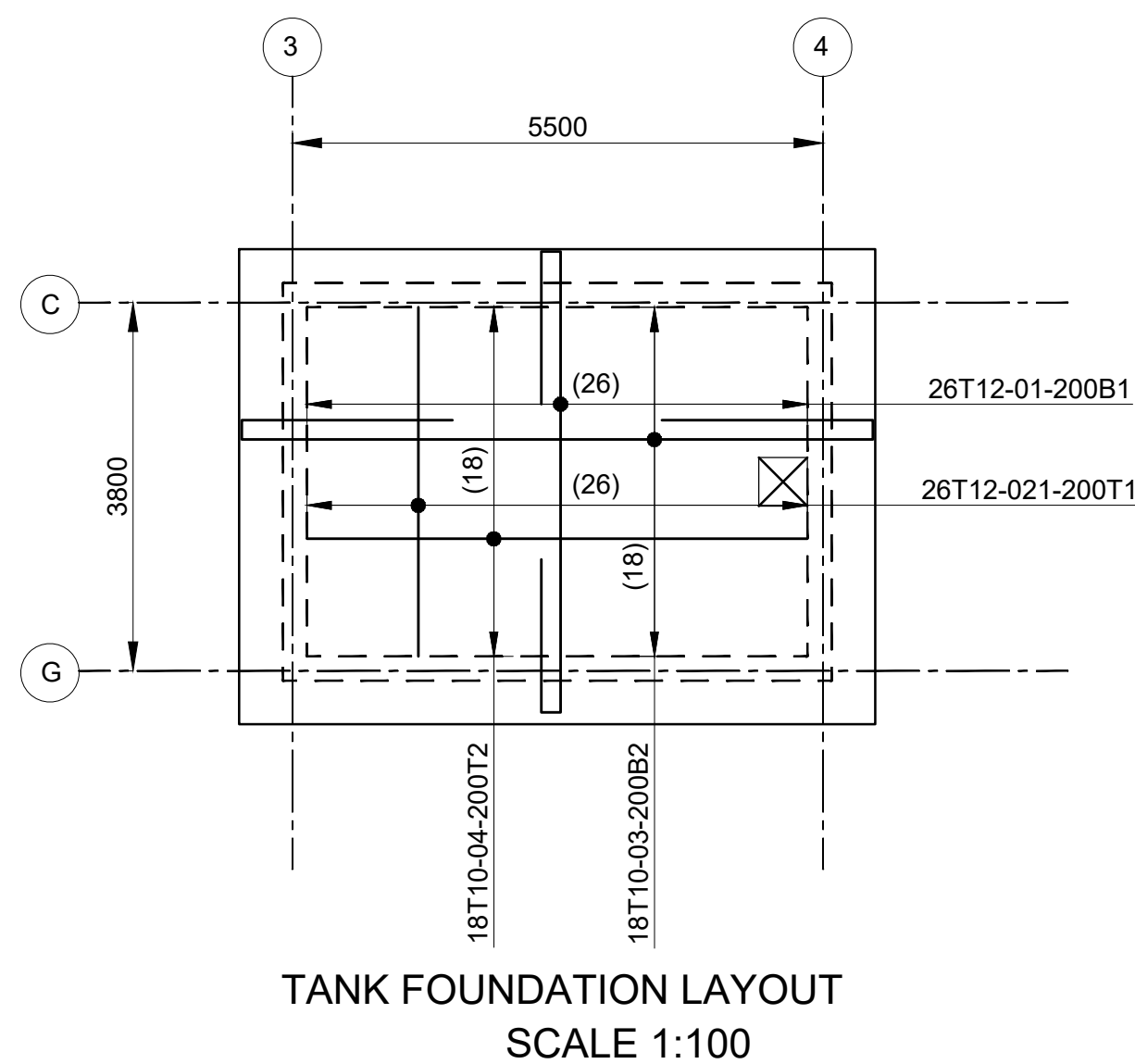
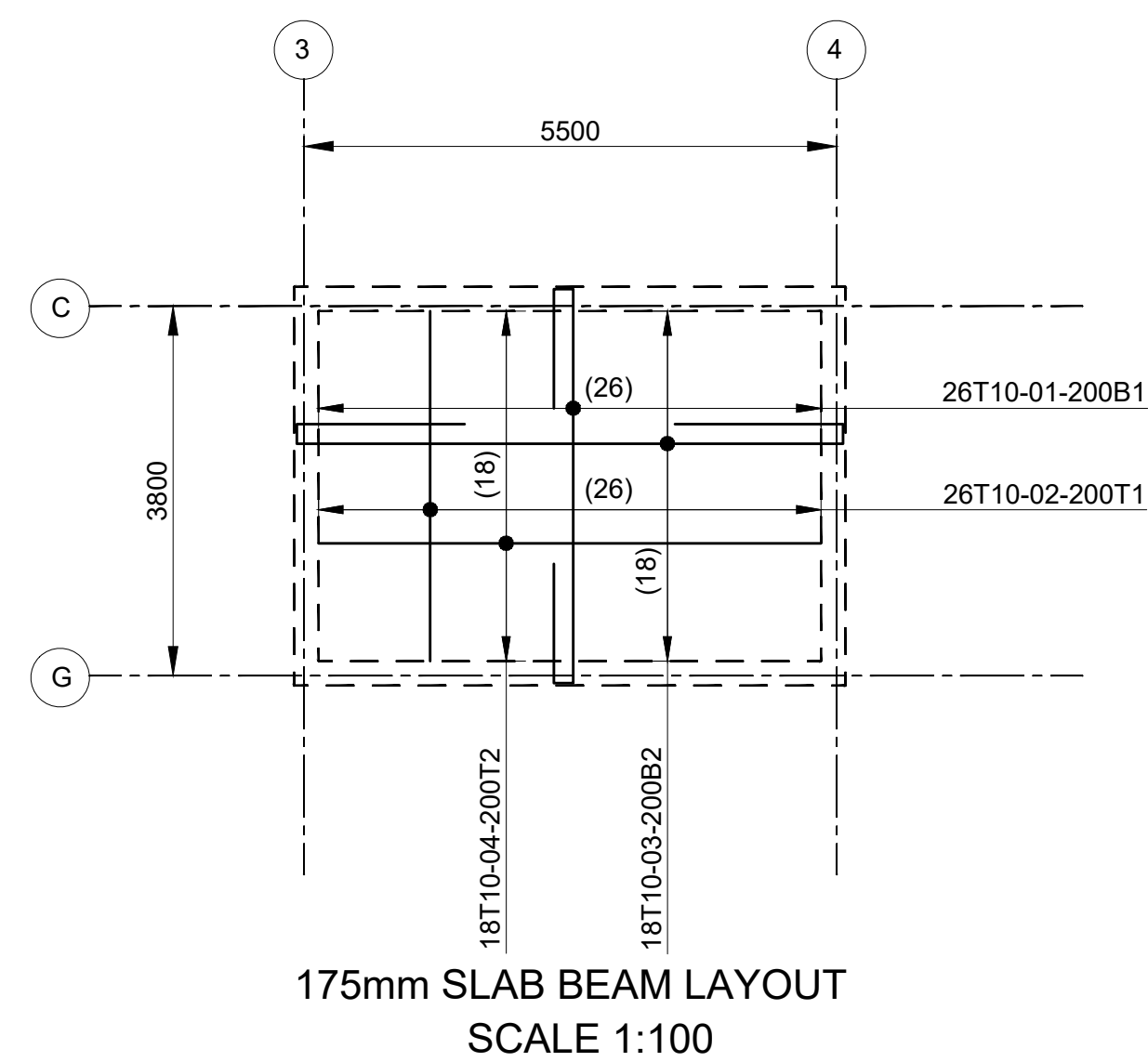
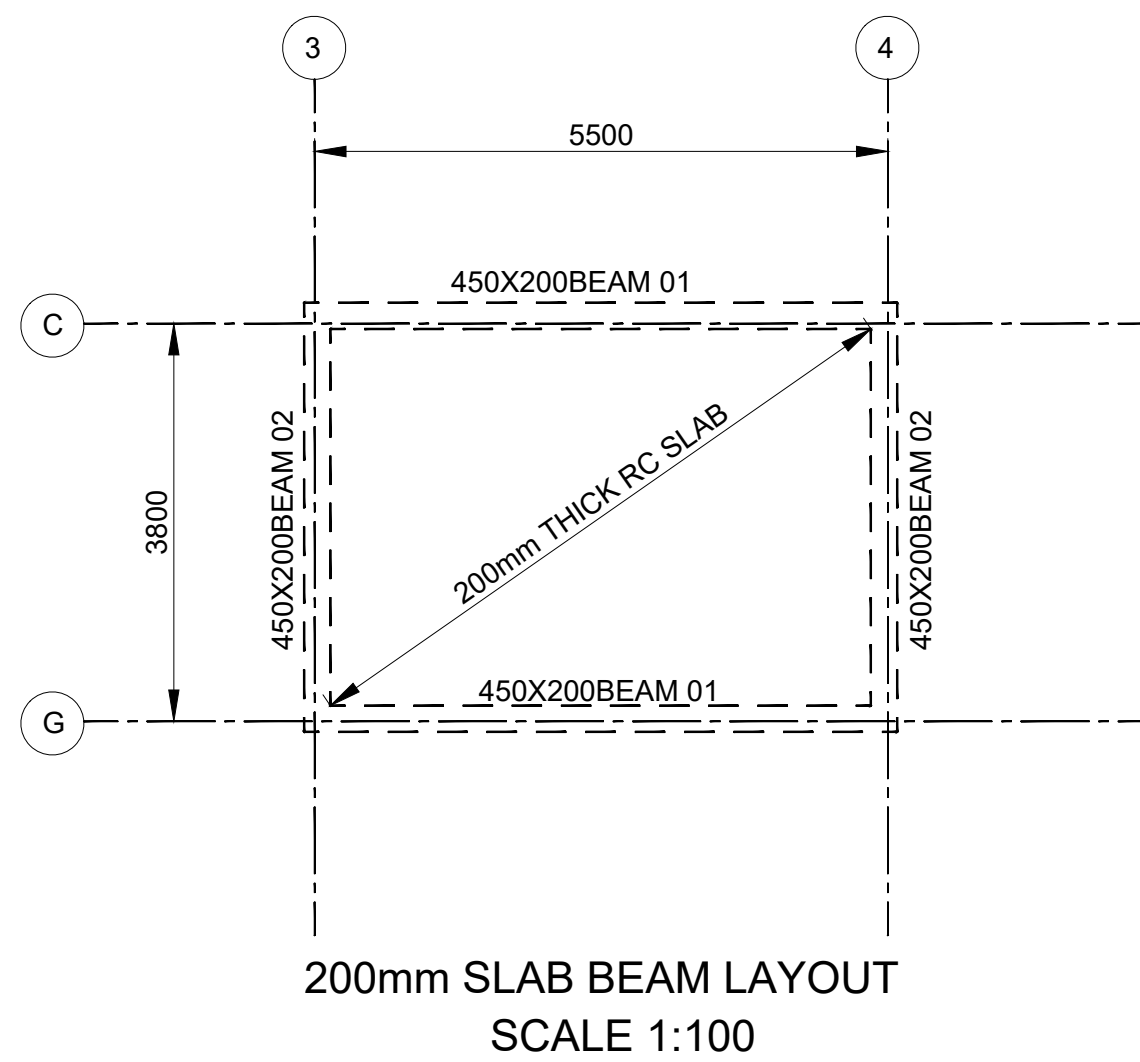
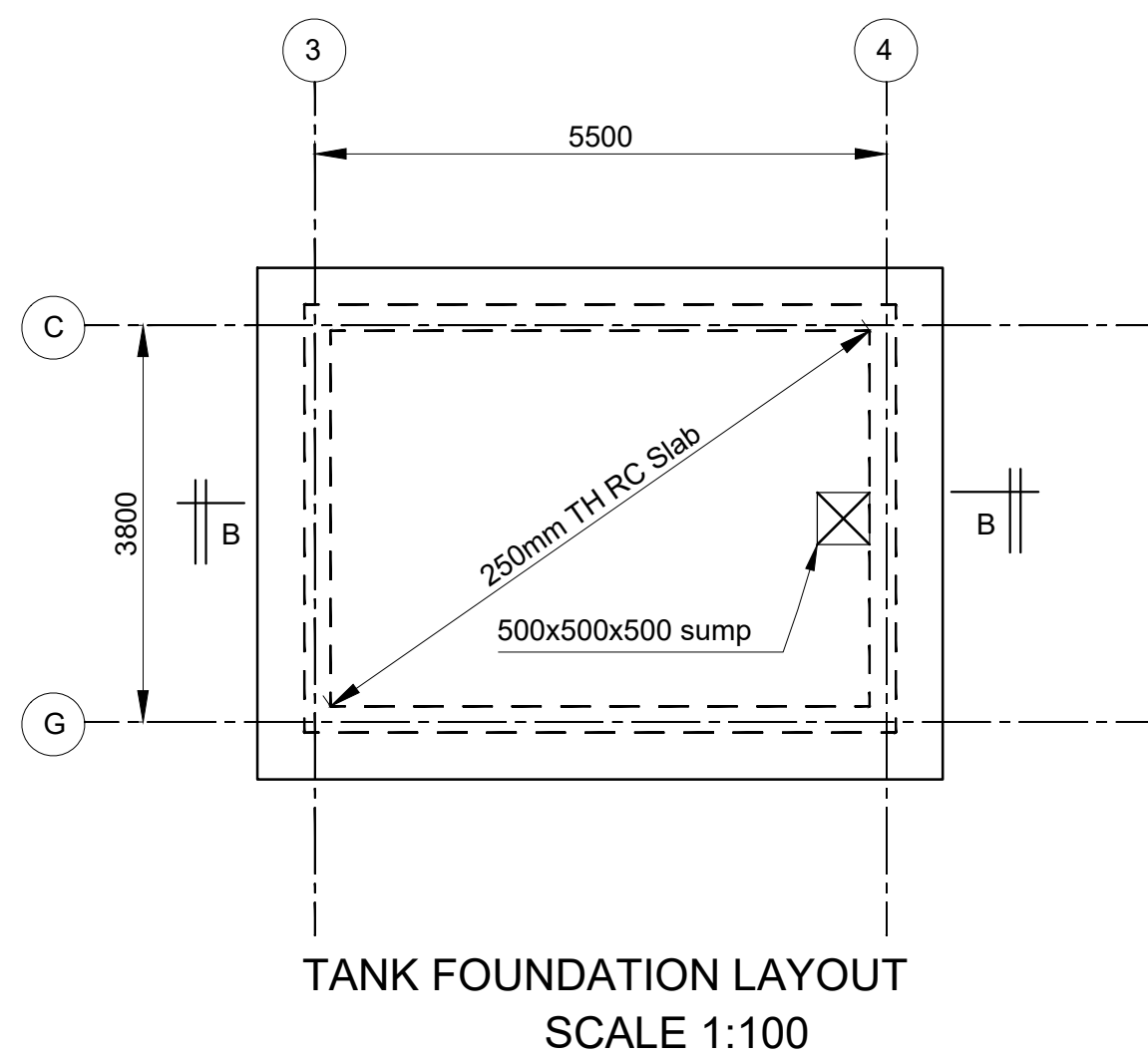
DRAWING NO. 09-002-06



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 MUKOWE FISH LANDING SITE, LAMU COUNTY.	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/m². 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/mm².	Designed by DAN Drawn by DAN Checked by HOH Scale AS SHOWN	Rev D C B A	Description	By	Date
DRAWING NO. 09-002-07									



Consultant:- APRIM CONSORTIUM P.O. Box 12969-00100, Nairobi, KENYA. Tel: 02 608 906 Fax: 02 608 907 E-mail: info@aprimconsultants.com	CLIENT:- STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.	PROJECT:- PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFED) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.	PROJECT TITLE:- PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.	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:	DRAWING TITLE:- GATE HOUSE - STRUCTURAL DETAIL	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 ² . 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 ² .	Designed by	DAN	Rev	D	Description	By	Date
								Drawn by	DAN					
								Checked by	NOH					
								Scale	AS SHOWN					
DRAWING NO. 09-002-08														



Consultant:-
ARPRIM CONSORTIUM
P.O. Box 12969-00100,
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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 (KEMFSED) NATIONAL
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.

DRAWING TITLE:-
UNDERGROUND WATER TANK

NOTES

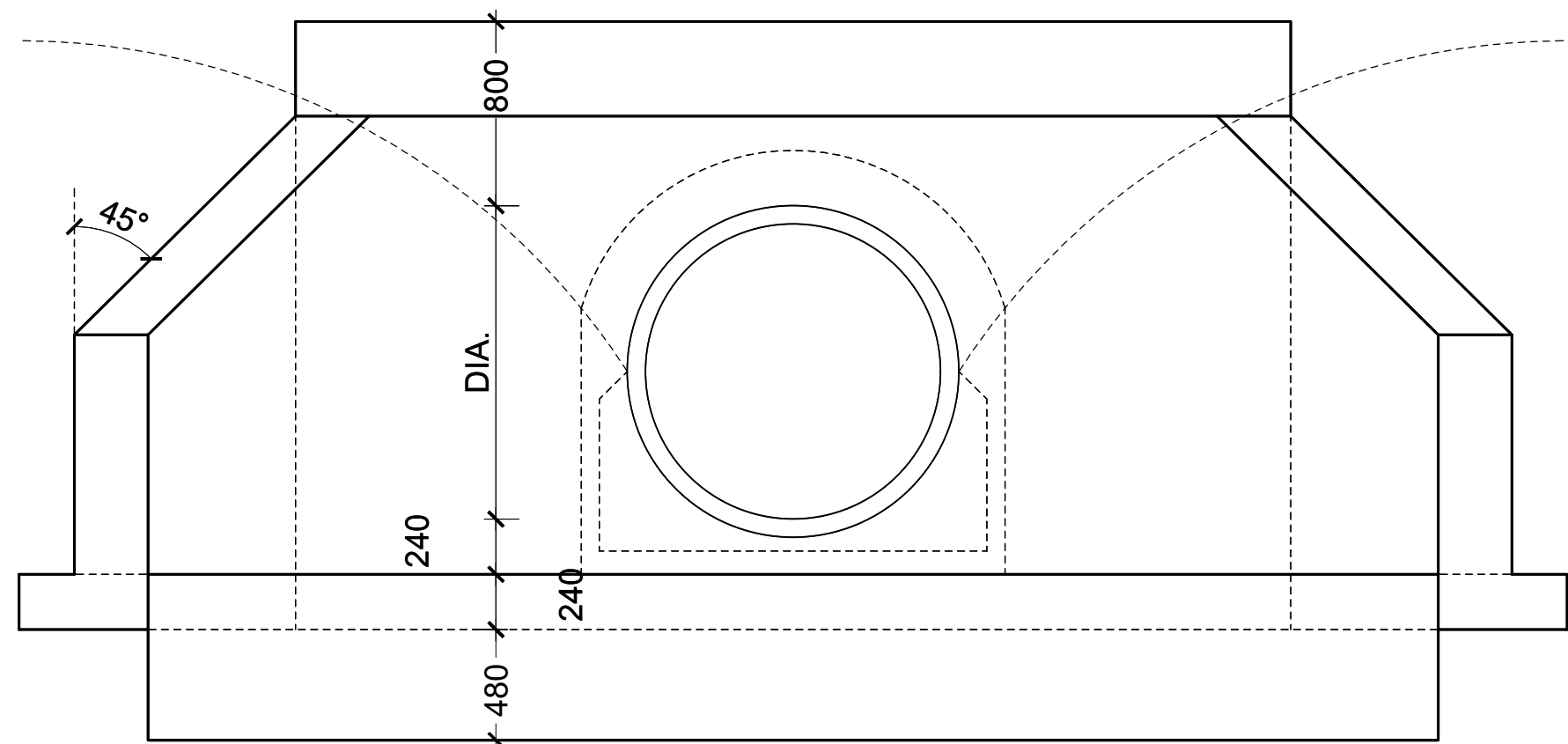
1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.
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- Post-tensioned beams = 40mm
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- Foundations = 75mm
- 5. 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.
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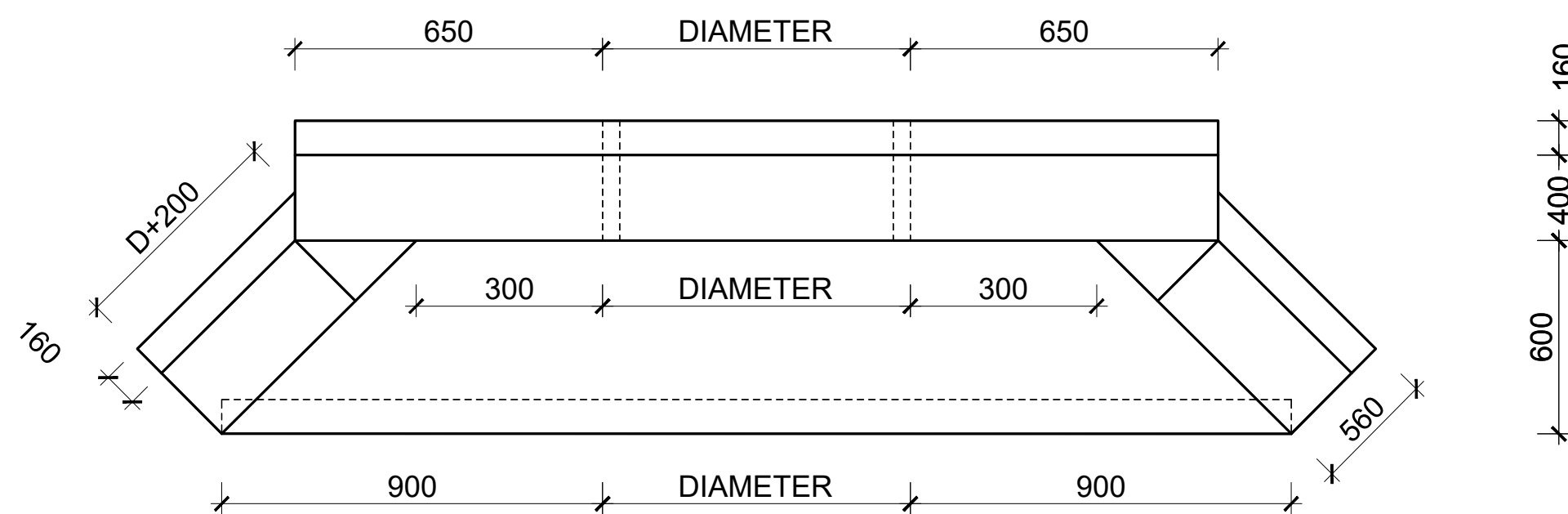
- 8. Safe Bearing Pressure taken to be 250 KN/m².
- 9. Nominal aggregate size to be 20mm.
- 10. Structural concrete to be Class 25 unless stated otherwise.
- 11. Concrete blinding to be Class 15 unless stated otherwise.
- 12. Masonry Strength to be 7.0 N/mm².

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

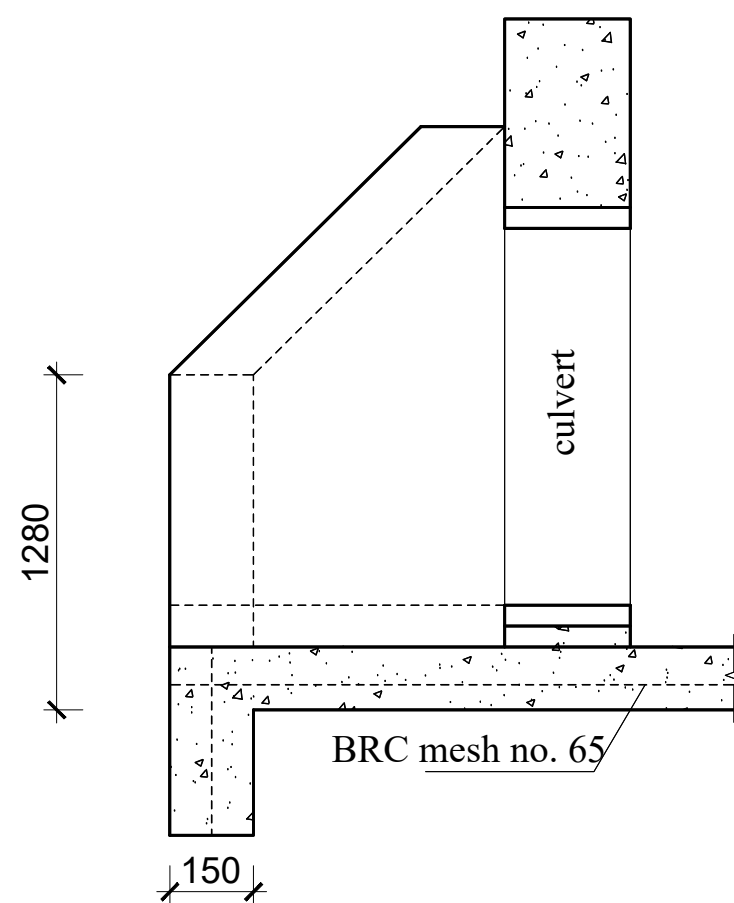
DRAWING NO. 09-002-09



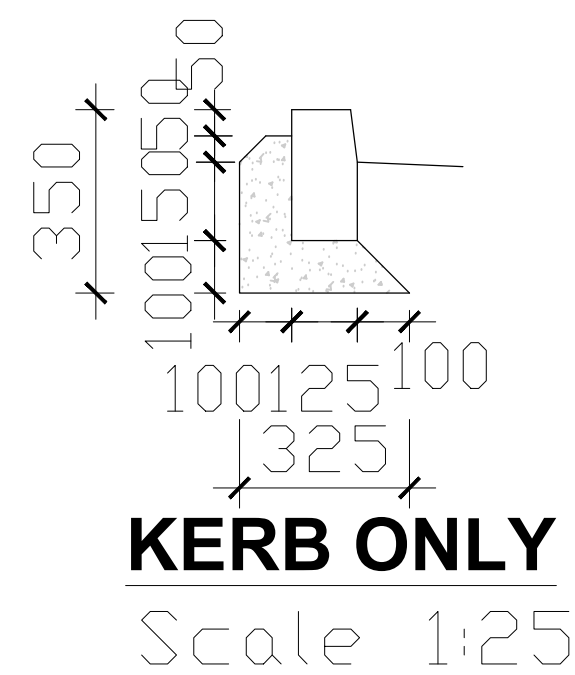
ELEVATION



PLAN

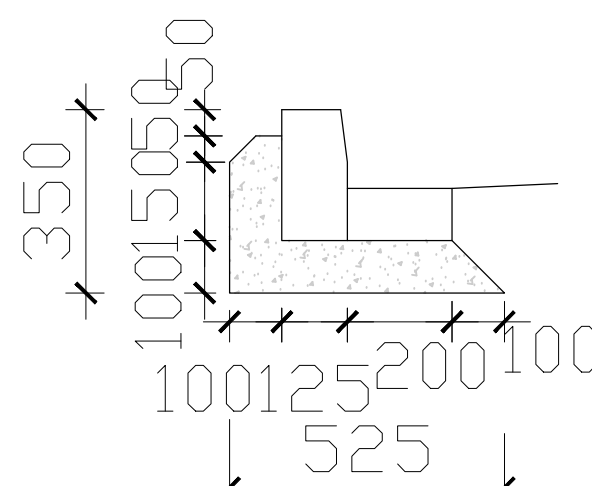


SECTION



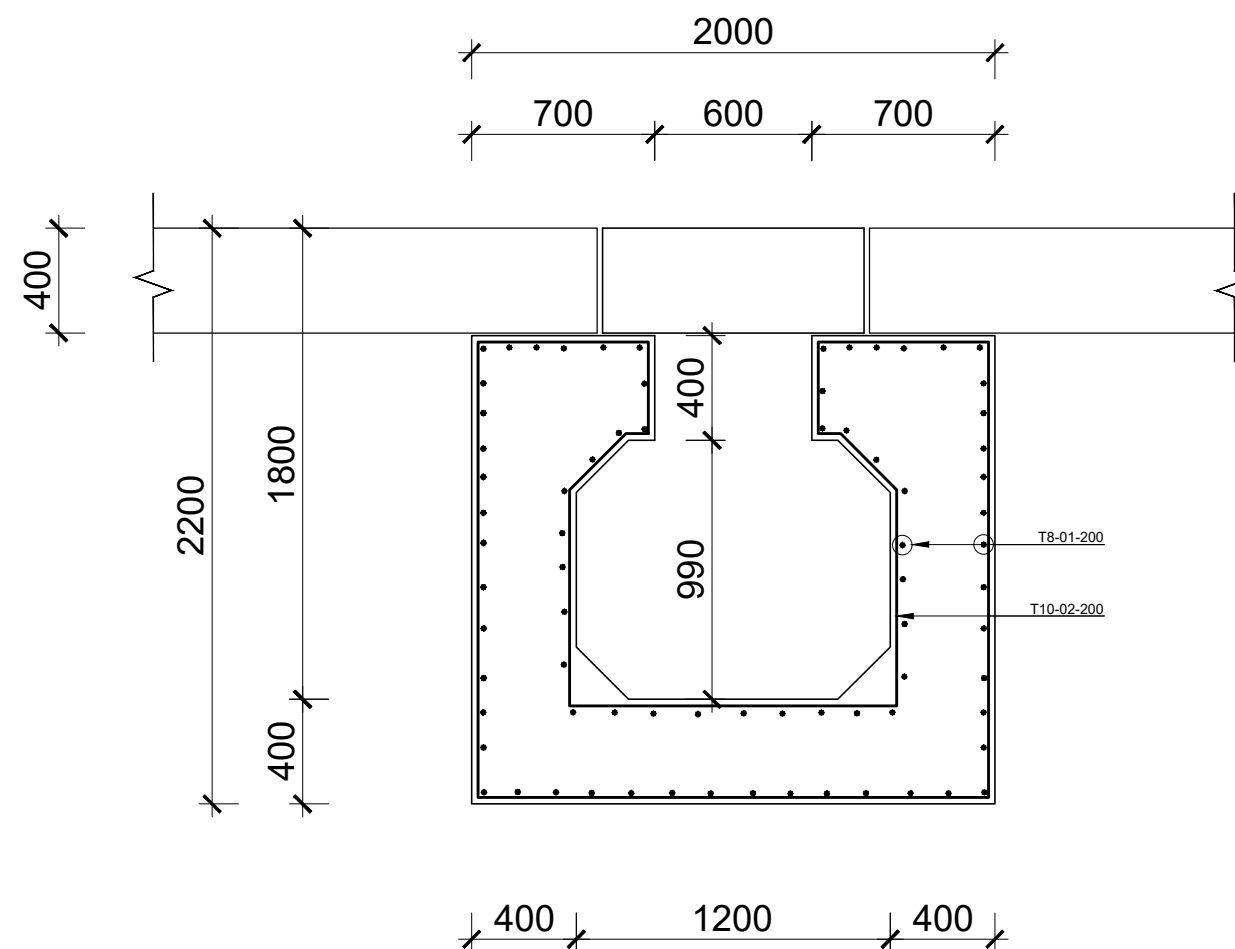
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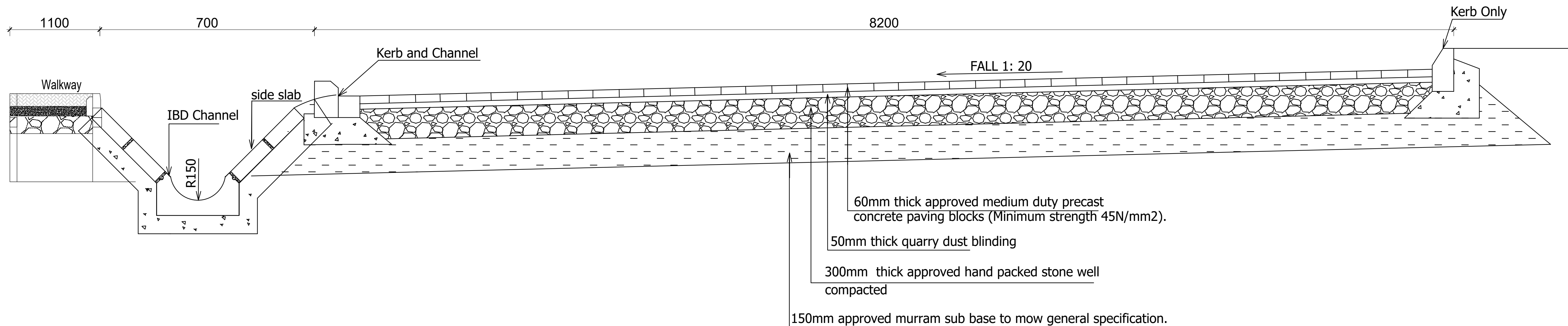


250x125 KERB AND
200x100 CHANNEL

Scale 1:25



DRAIN TYPE A: R.C COVERED OPEN DRAIN



ROAD SECTION X-X (ONE WAY FALL)

SCALE 1:50

Consultant:-
ARPRIM CONSORTIUM
P.O. Box 12969-00100,
Nairobi, KENYA.
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PROJECT:-
**PROPOSED KENYA MARINE FISHERIES AND
SOCIO-ECONOMIC DEVELOPMENT (KEMFSD) NATIONAL
AND COUNTY FISHERIES INFRASTRUCTURE.**

PROJECT TITLE:-
PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.

DRAWING TITLE:-
CIVIL WORKS 1

NOTES

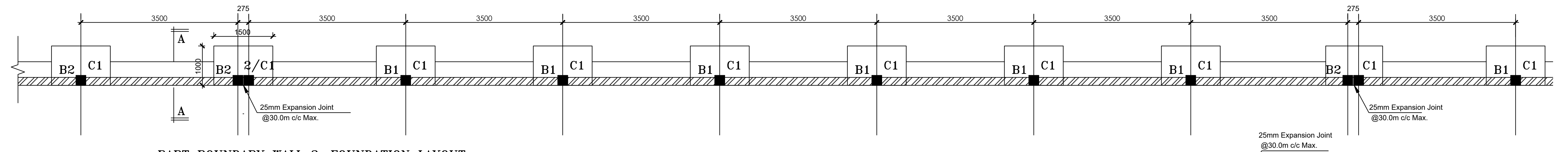
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11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm².

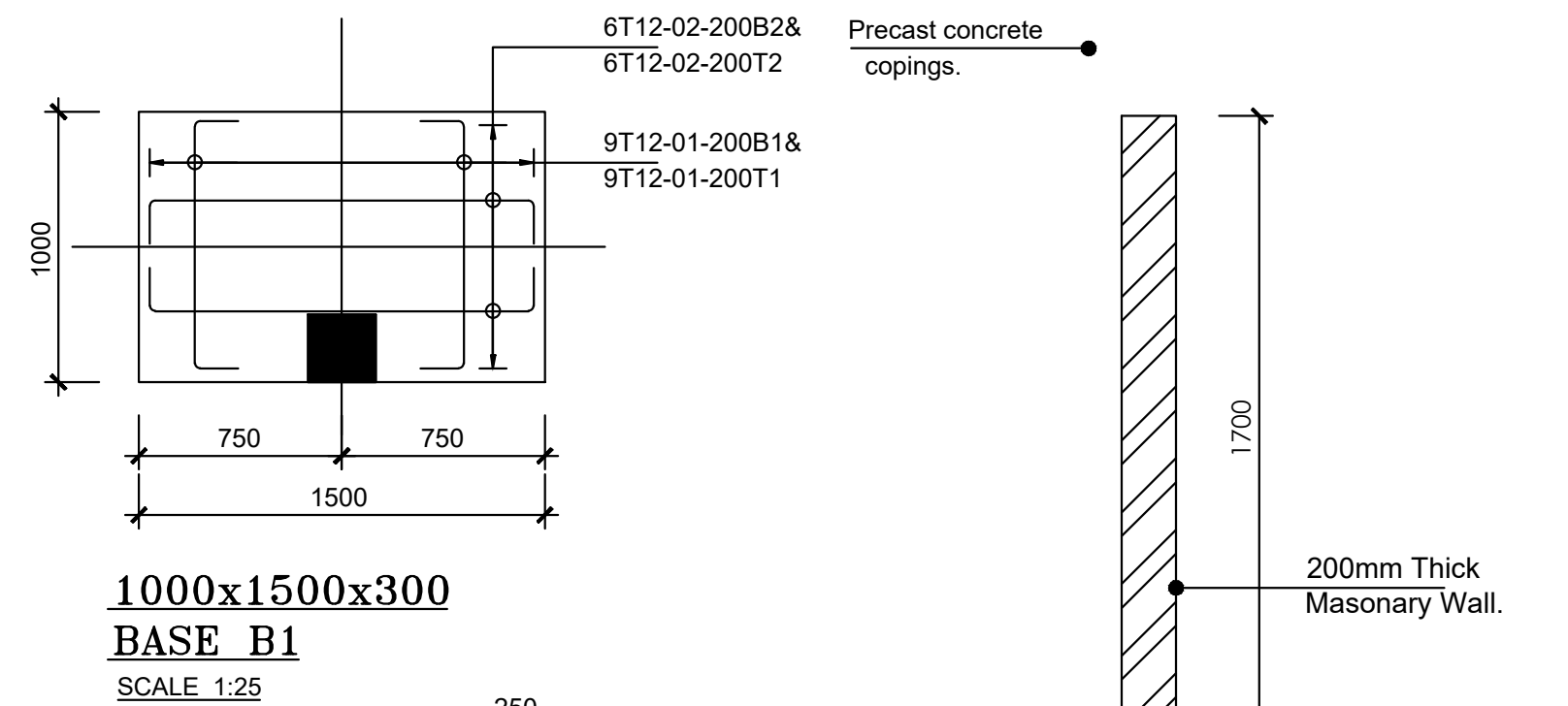
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Drawn by	DAN	D			
Checked by	HOH	C			
Scale	AS SHOWN	B			
		A			

DRAWING NO. 09-002-10

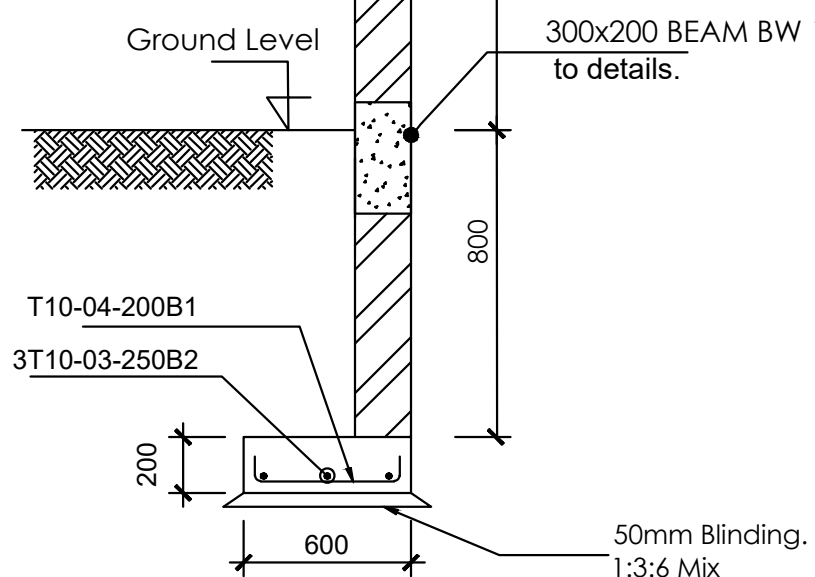
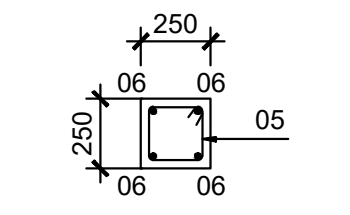


PART BOUNDARY WALL 2: FOUNDATION LAYOUT.

SCALE 1:50

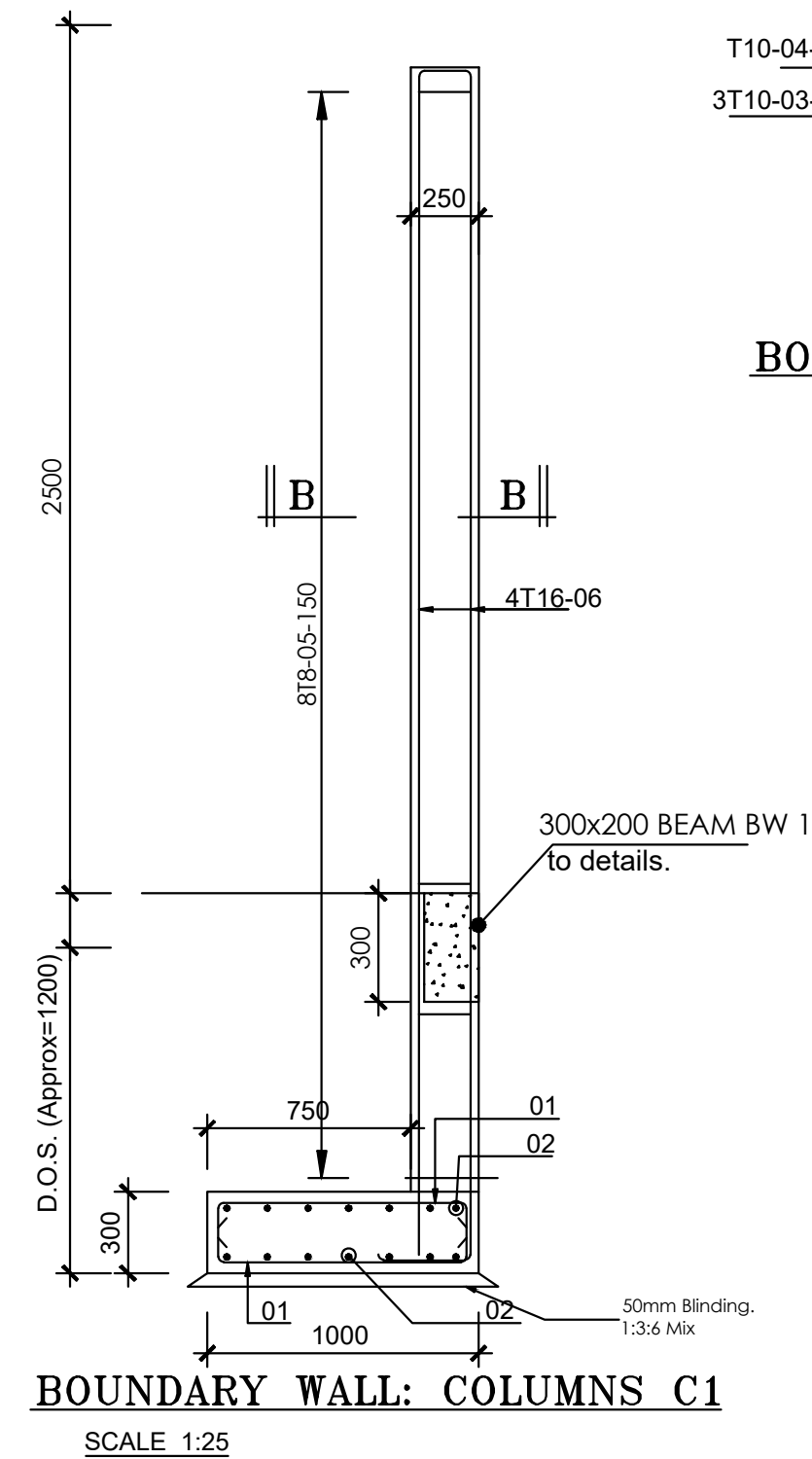


SECTION B-B



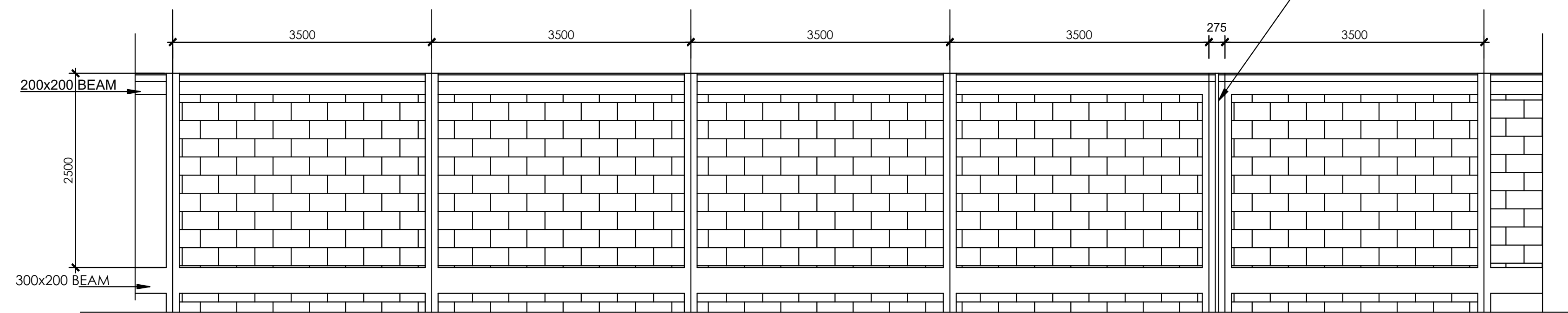
BOUNDARY WALL: SECTION A-A.

SCALE 1:25

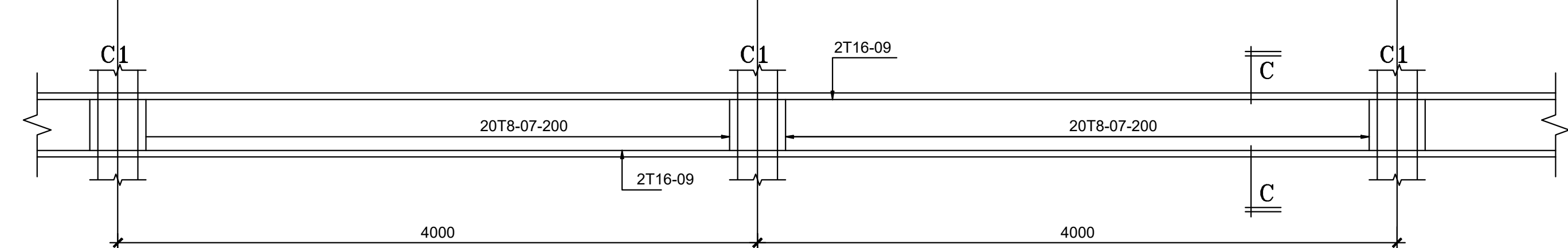


BOUNDARY WALL: COLUMNS C1

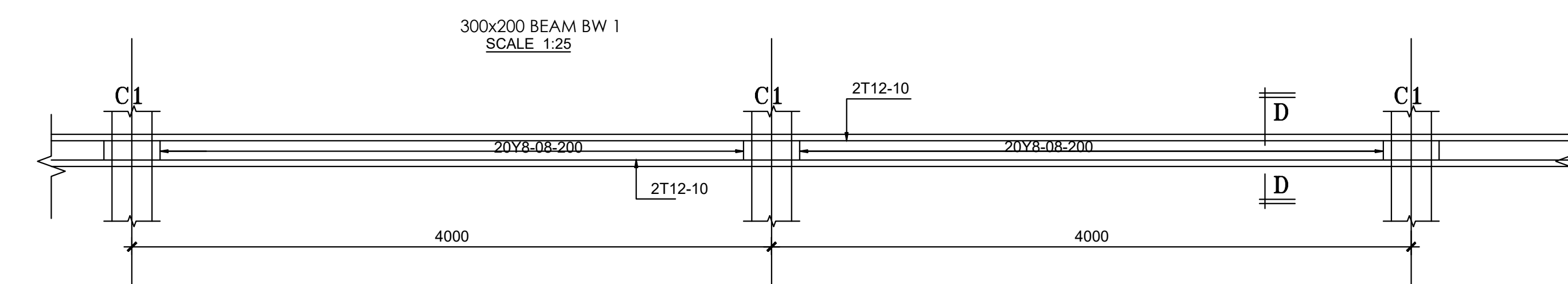
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PARTIAL ELEVATION OF THE PROPOSED BOUNDARY WALL

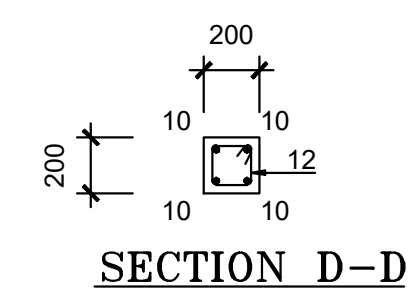


SECTION C-C

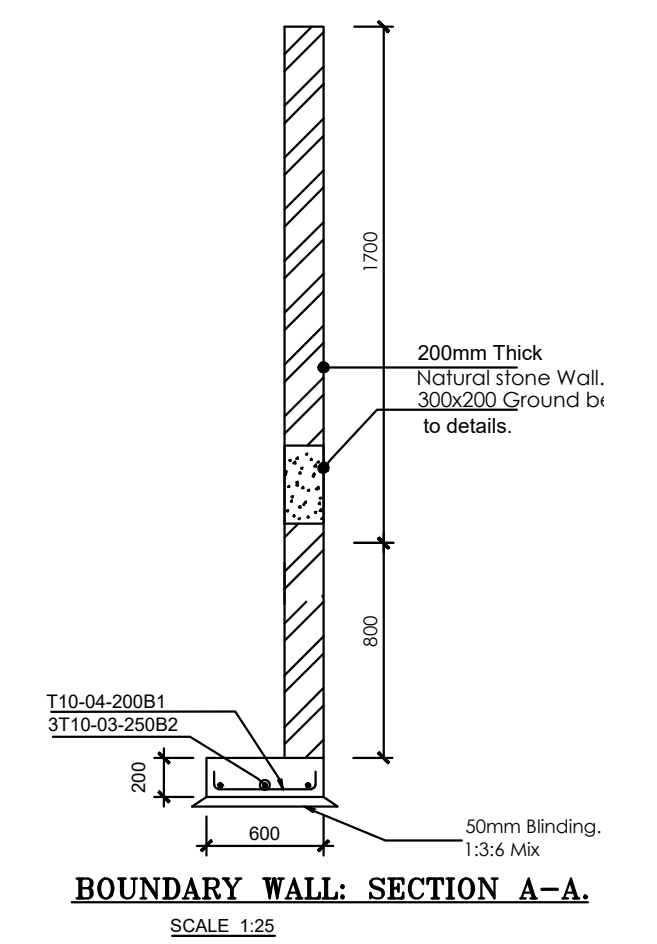


200x200 BEAM BW 2

SCALE 1:25



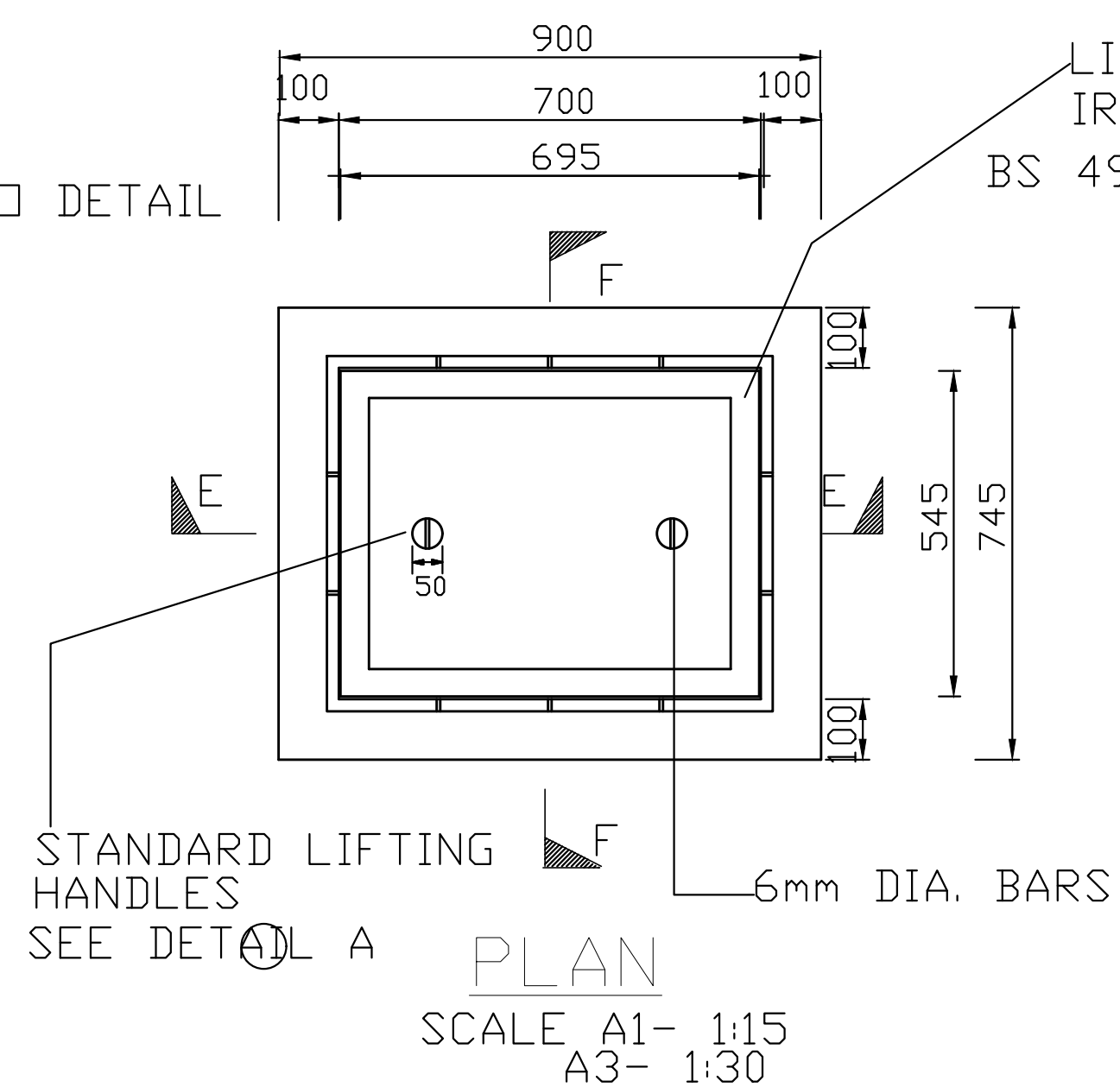
SECTION D-D



BOUNDARY WALL: SECTION A-A.

SCALE 1:25

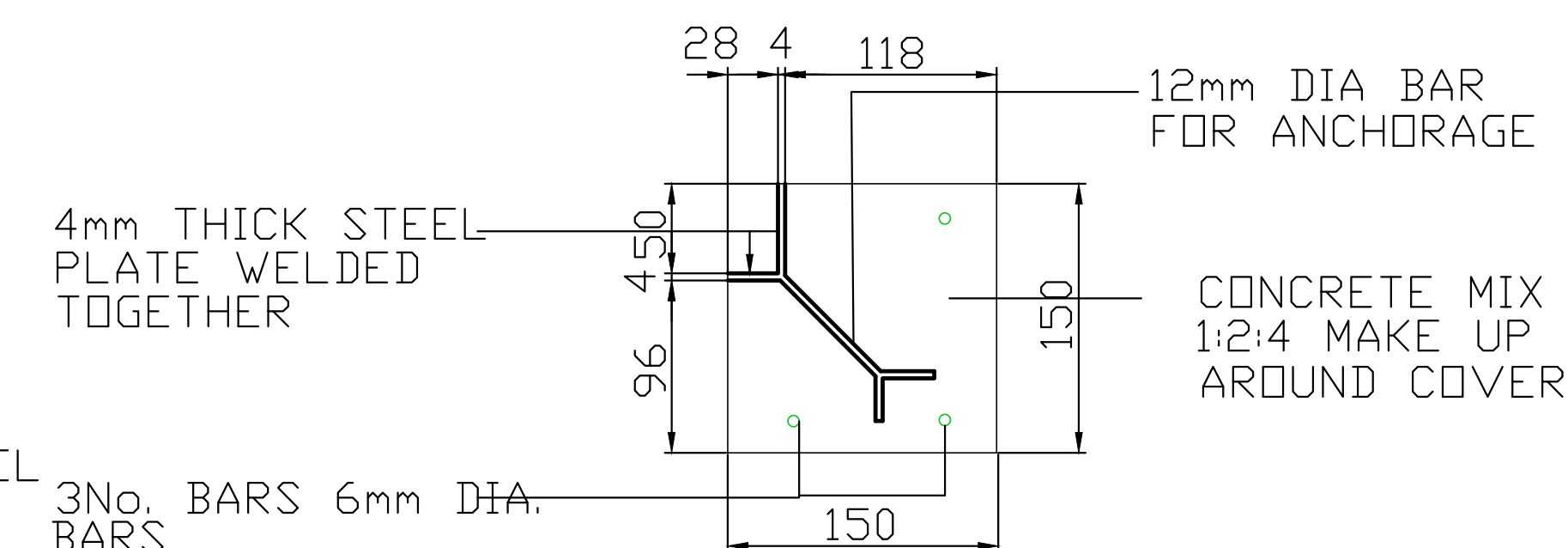
<p>Consultant:- ARPRIM CONSORTIUM P.O. Box 12969-00100, Nairobi, KENYA. Tel: 02 608 906 Fax: 02 608 907 E-mail: info@arprimconsultants.com</p>	<p>CLIENT:- STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.</p>	<p>PROJECT:- PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFSED) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.</p>	<p>PROJECT TITLE:- PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.</p> <p>DRAWING TITLE:- BOUNDARY WALL DETAIL</p>	<p>NOTES</p> <ol style="list-style-type: none"> 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: <p>Stairs, Slabs & Walls Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm</p> <ol style="list-style-type: none"> 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/m². 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/mm². 	<table border="1"> <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> <p>DRAWING NO. 09-002-11</p>	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																																	



Technical drawing of a circular part. The drawing shows a circular cross-section with a central vertical slot. The dimensions are indicated by arrows and numbers: 5, 20, 10, 20, and 5. The section lines are indicated by arrows pointing to the part, with the letter 'A' at the end of each arrow.

SECTION F-F

SCALE A1- 1:15
A3- 1:30



DETAIL B

SECTION SHOWING DETAIL

OF FRAME FOR P.C.C - I.C COVER

DETAIL A — 2mm THICK BLOCK PLATE
SECTION A-A
DETAIL OF LIFTING KEY HOLE
SCALE 1 : 1

1. INSPECTION CHAMBER SHOULD BE SIZE 600×450mm UPTO DEPTH OF 1000mm
2. FOR INSPECTION CHAMBER EXCEEDING DEPTH 1000mm SIZE SHOULD BE 850×1200mm
3. WALLS OF INSPECTION CHAMBER TO BE OF MASONRY

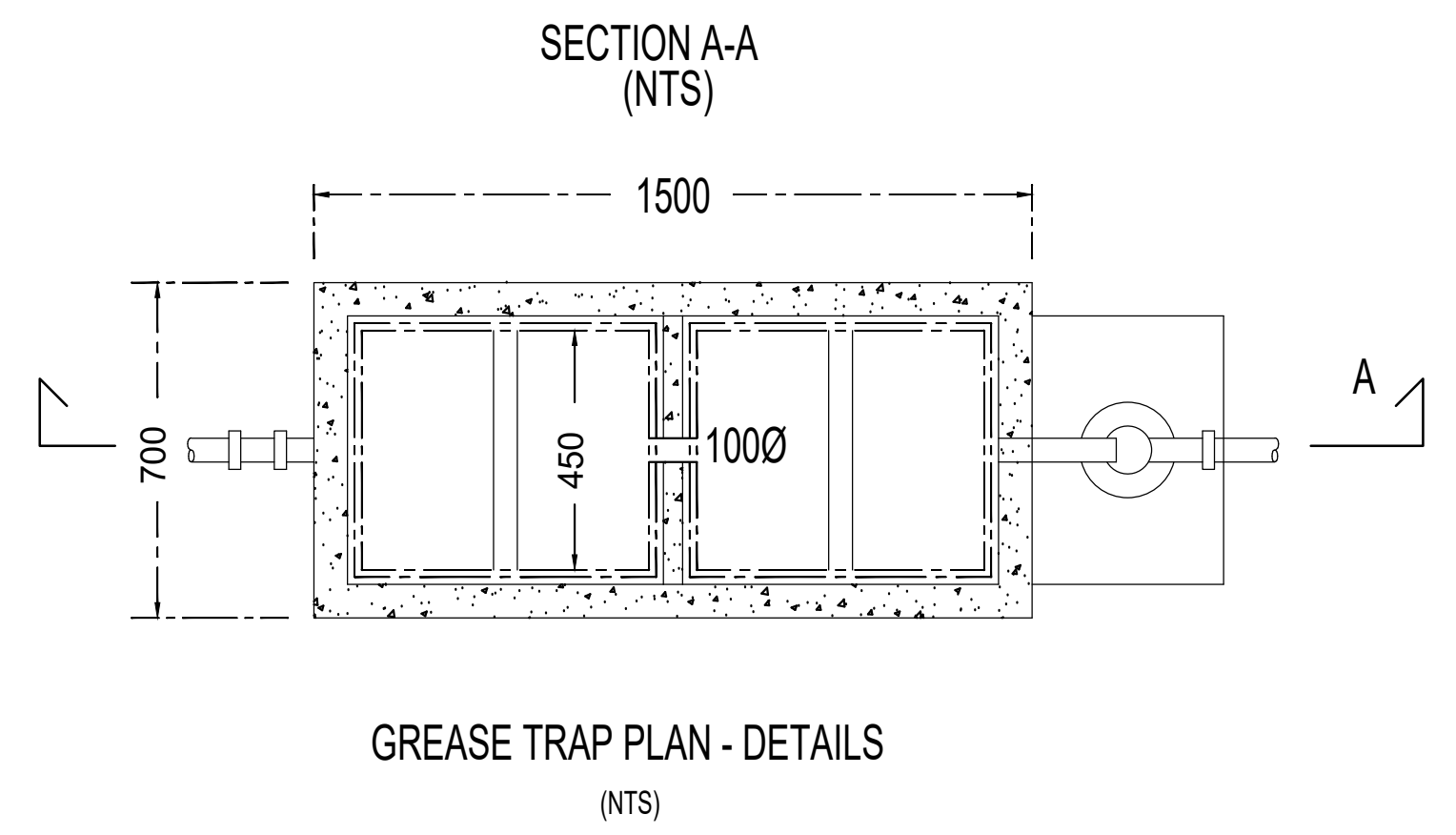
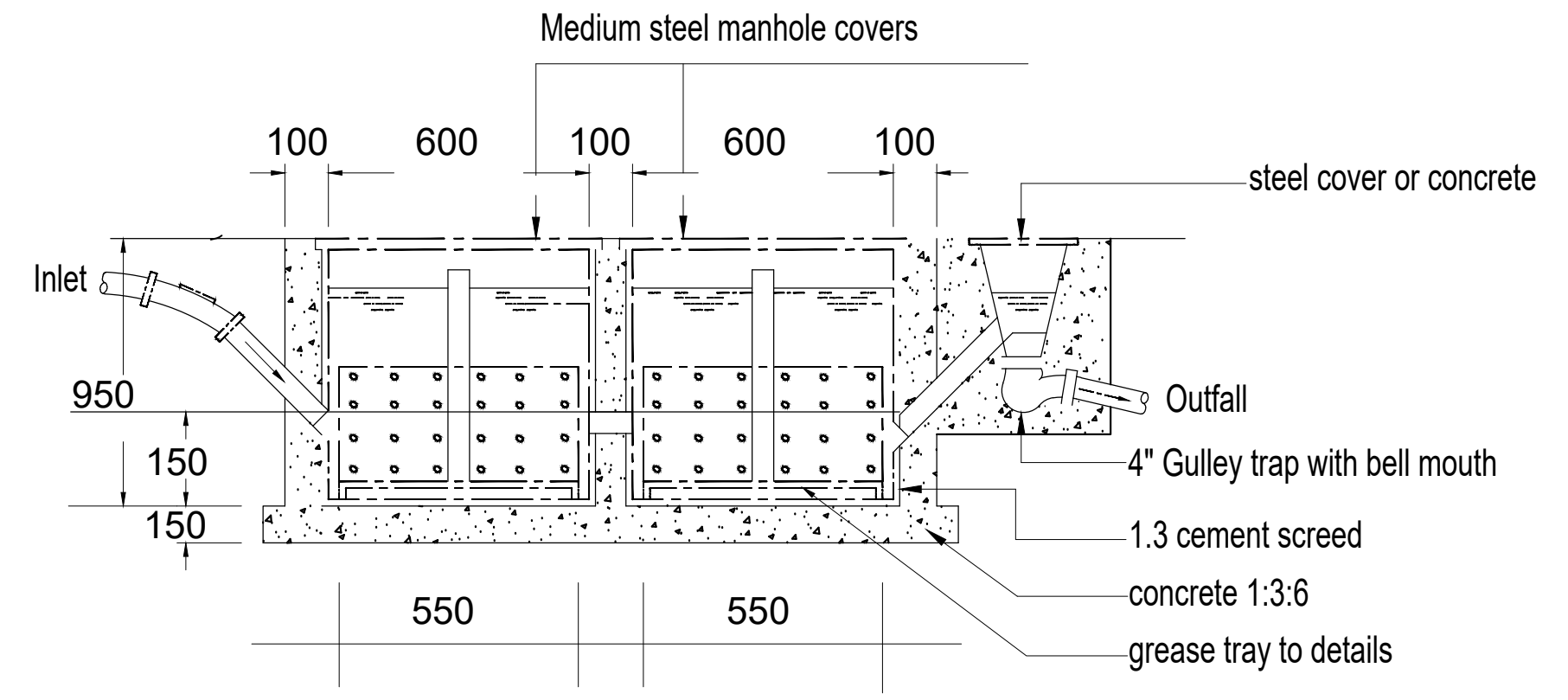
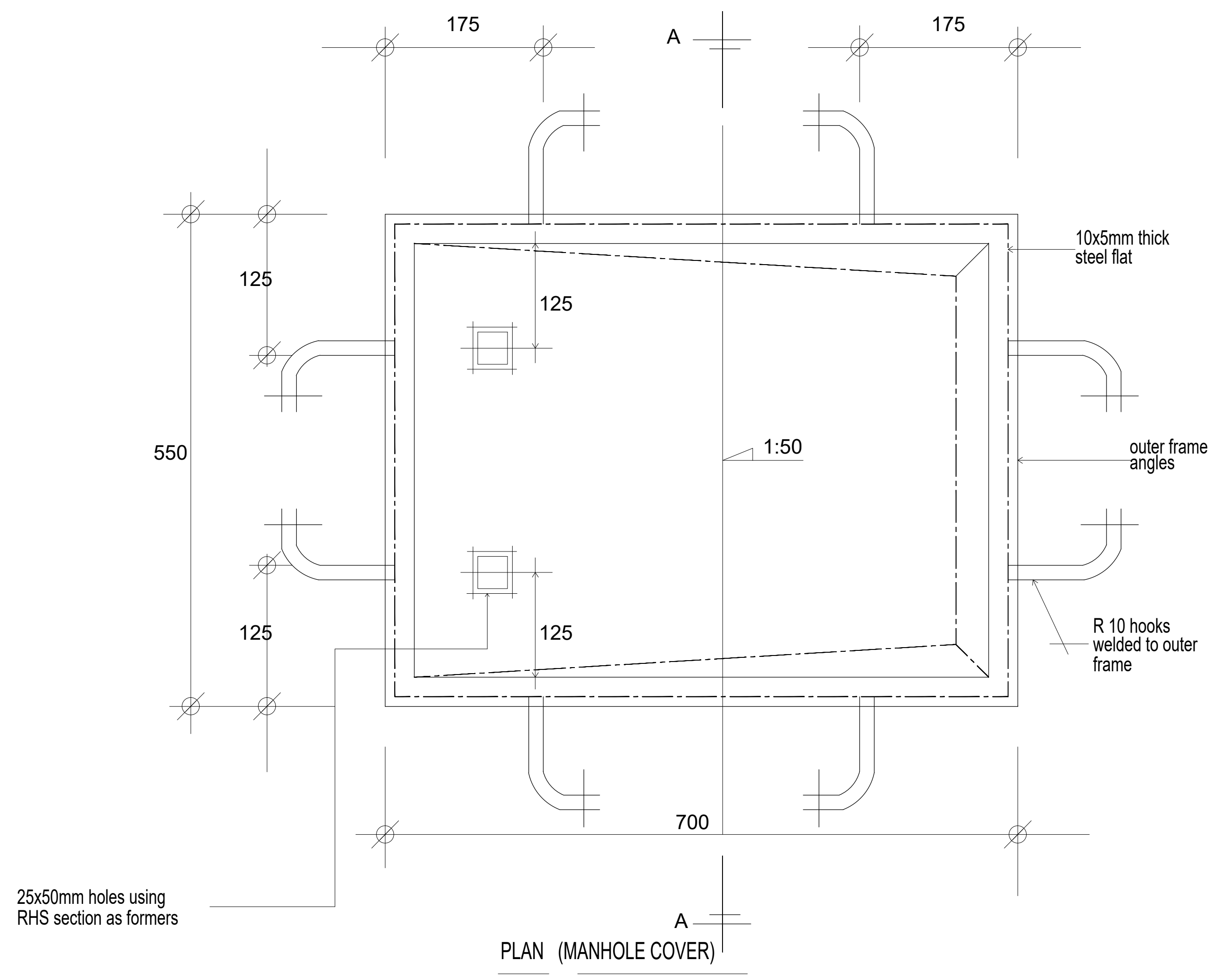
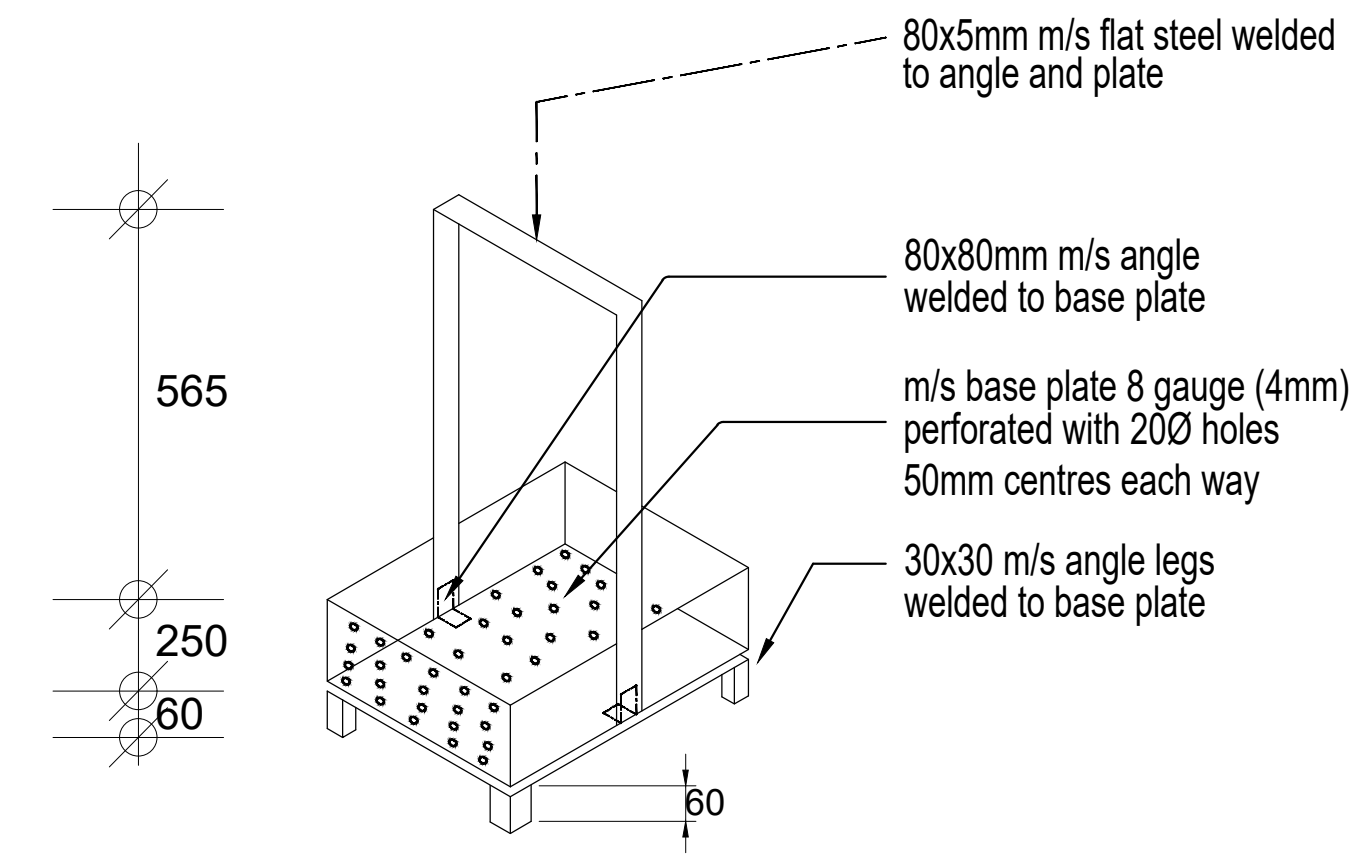
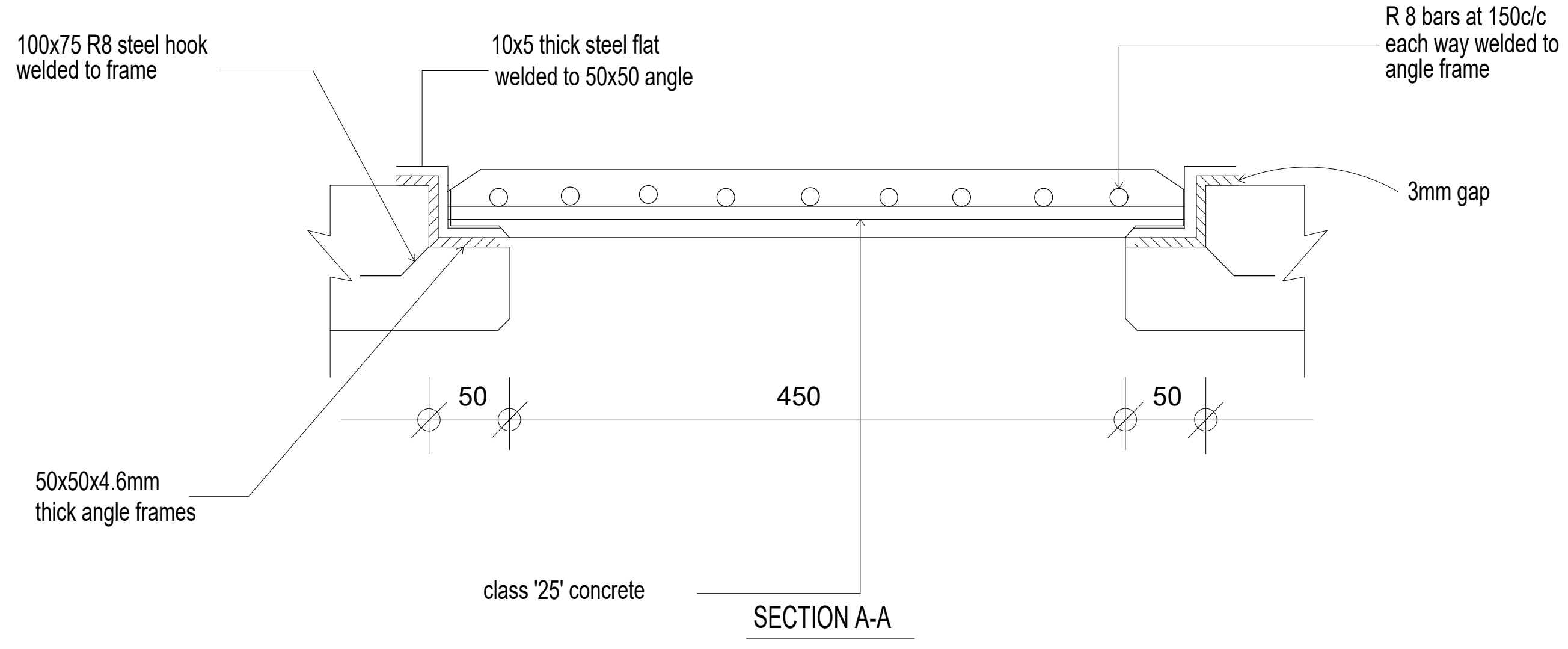
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DIA. STEEL BARS

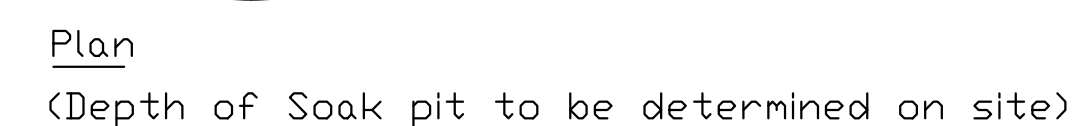
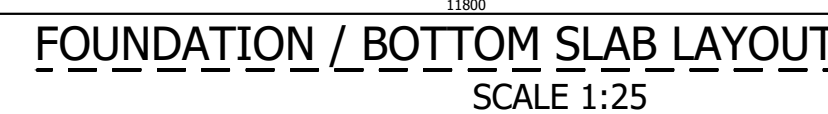
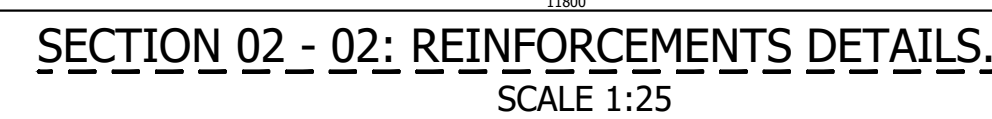
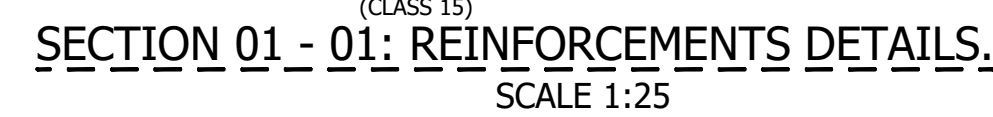
1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.
2. All dimensions are in millimetres unless specified otherwise.
3. All levels are indicated in m unless specified otherwise.
4. Minimum cover to all reinforcement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

8. Safe Bearing Pressure taken to be 250 kN/m².
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/mm².

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

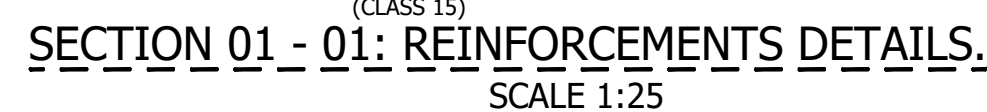
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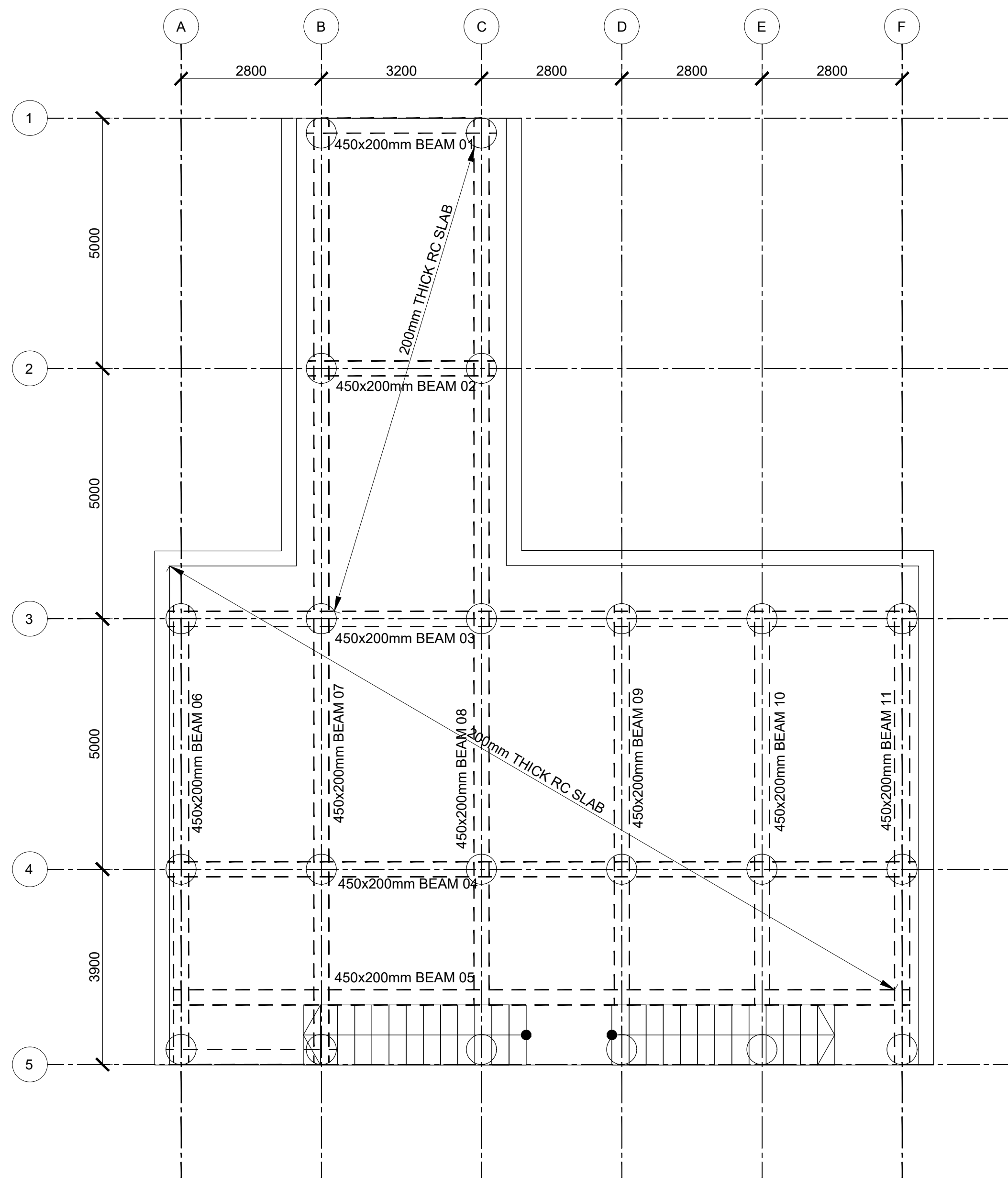
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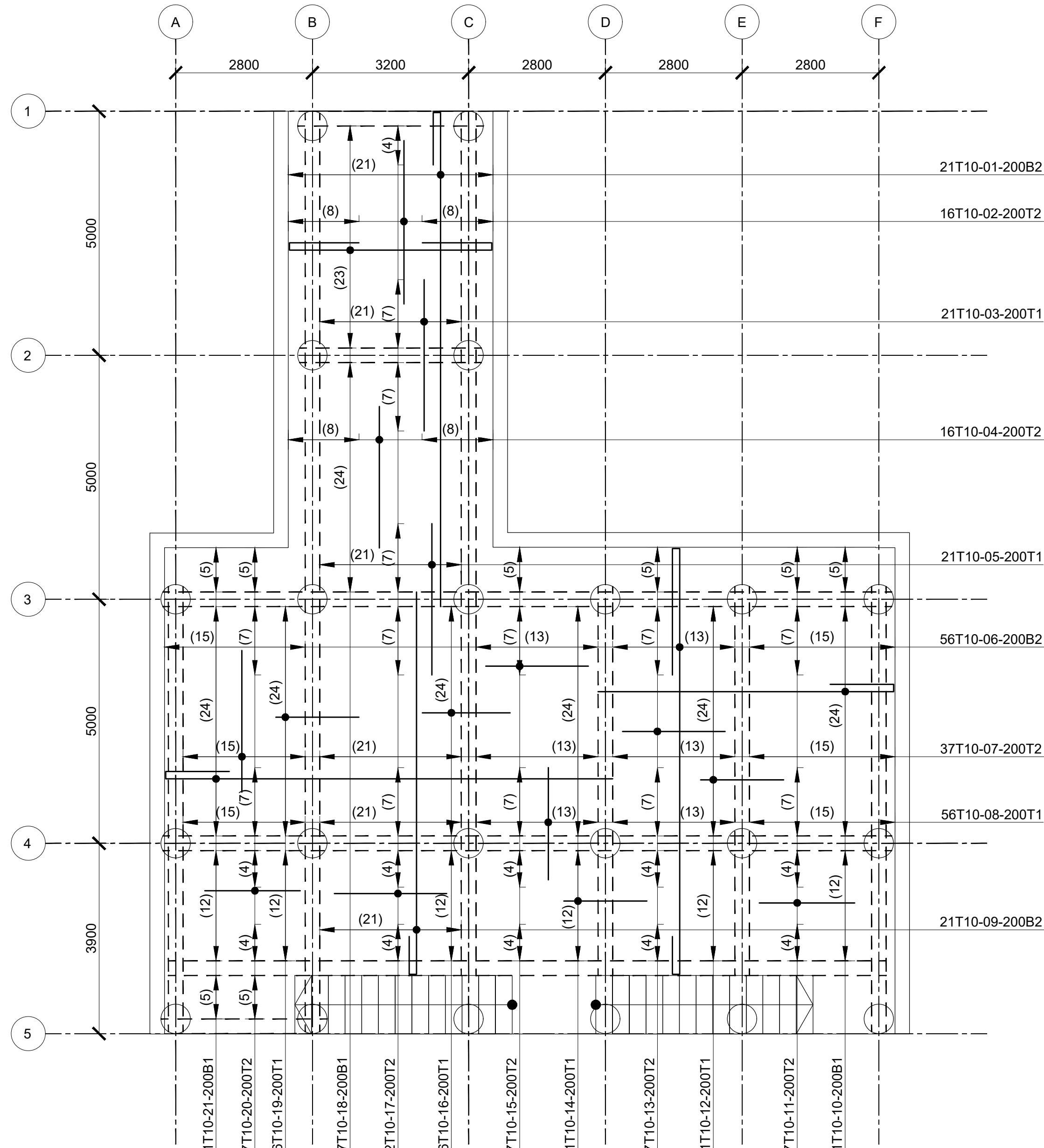


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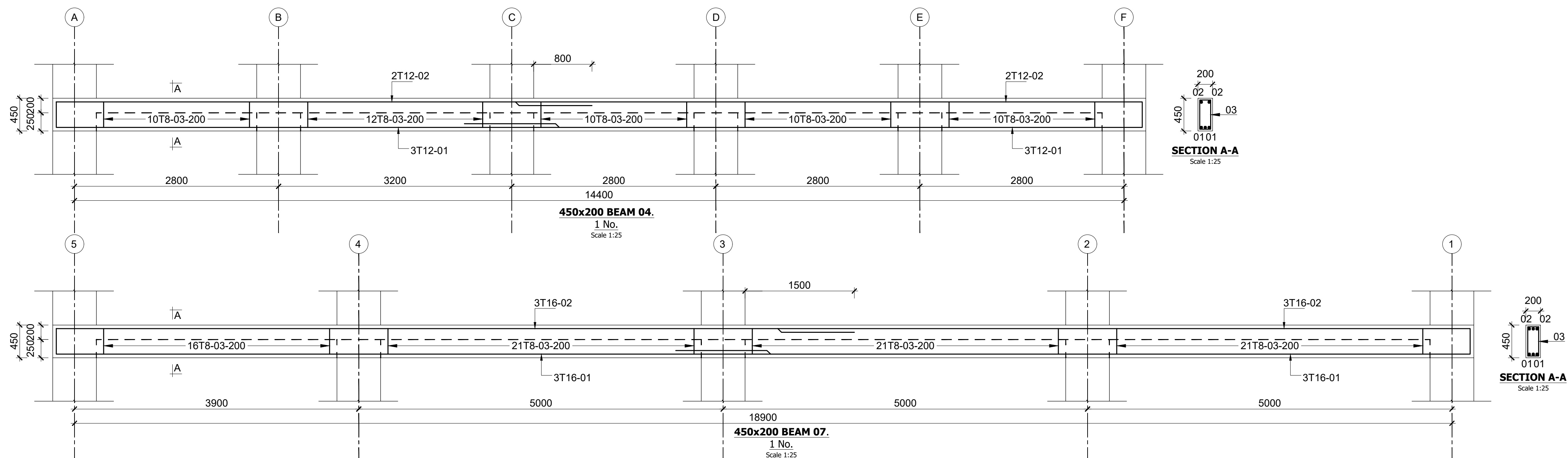
DRAWING NO. 09-002-15



JETTY LAYOUT



JETTY SLAB RC DETAIL



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 MUKOWE FISH LANDING SITE, LAMU COUNTY.

DRAWING TITLE:-
JETTY LAYOUT, SLAB AND BEAM DETAIL

NOTES

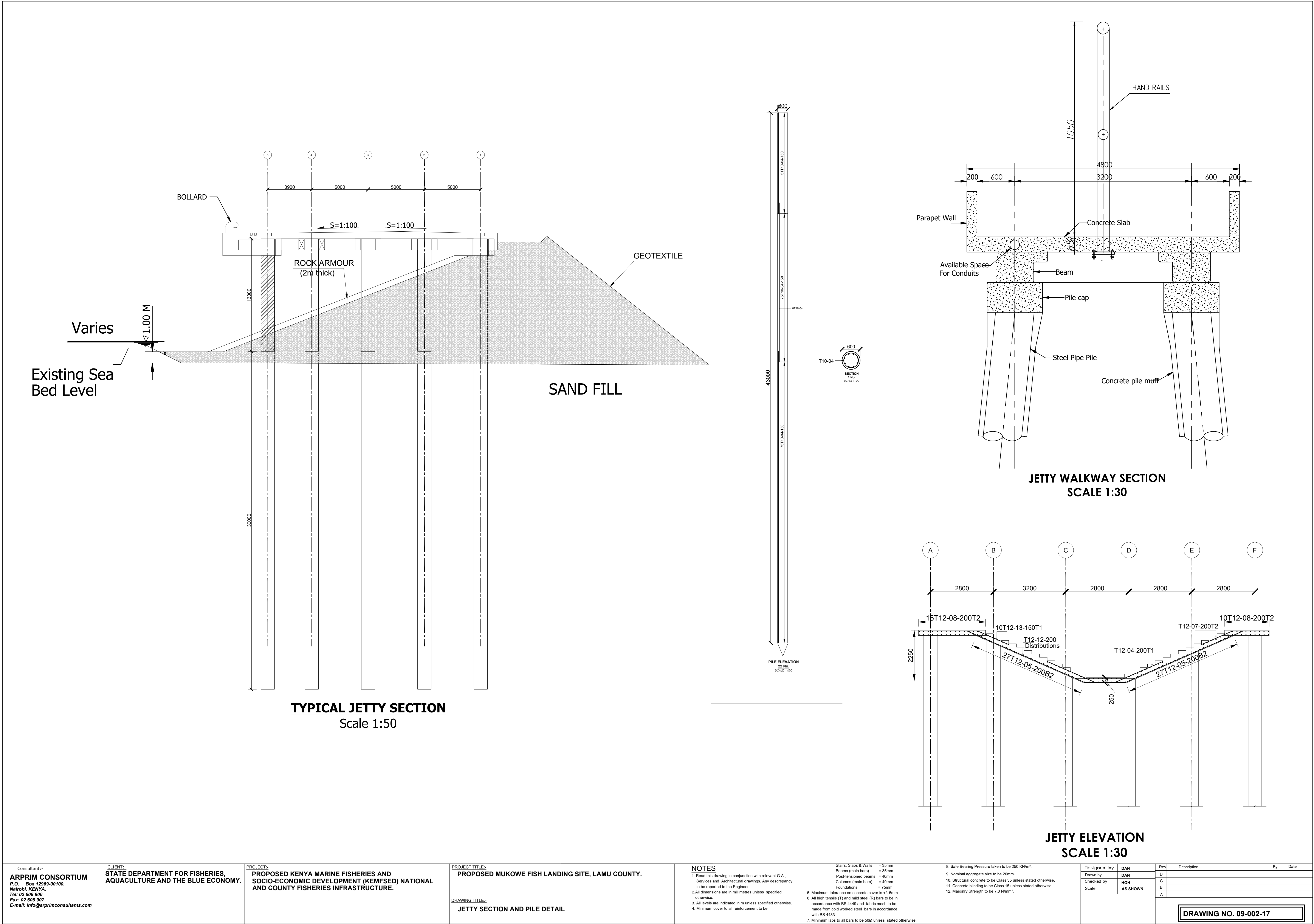
1. Read this drawing in conjunction with relevant G.A., Services and Architectural drawings. Any discrepancy to be reported to the Engineer.
2. All dimensions are in millimetres unless specified otherwise.
3. All levels are indicated in m unless specified otherwise.
4. Minimum cover to all reinforcement 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/m².
9. Nominal aggregate size to be 20mm.
10. Structural concrete to be Class 35 unless stated otherwise.
11. Concrete blinding to be Class 15 unless stated otherwise.
12. Masonry Strength to be 7.0 N/mm².

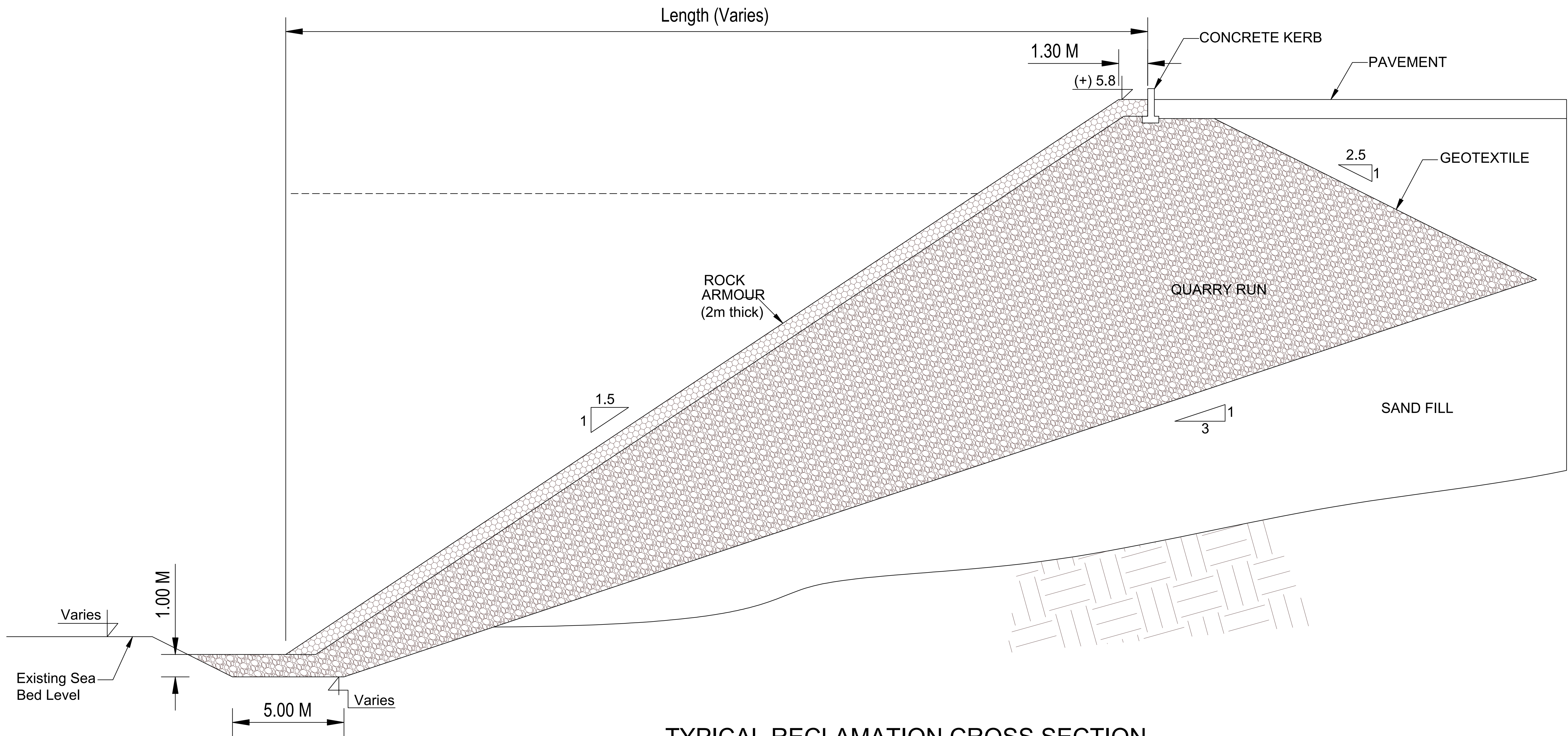
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Checked by	HOH	C			
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		A			

DRAWING NO. 09-002-16



<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	8. Safe Bearing Pressure taken to be 250 KN/m ² .	Designed by	DAN	Rev	Description	By	Date
	STATE DEPARTMENT FOR FISHERIES, AQUACULTURE AND THE BLUE ECONOMY.	PROPOSED KENYA MARINE FISHERIES AND SOCIO-ECONOMIC DEVELOPMENT (KEMFED) NATIONAL AND COUNTY FISHERIES INFRASTRUCTURE.	PROPOSED MUKOWE FISH LANDING SITE, LAMU COUNTY.	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 Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm 5. Maximum tolerance on concrete cover is +1.5mm. 6. All high tensile (T) and mild steel (R) bars to be in accordance with BS 4449 & fabric mesh to be made from cold worked steel bars in accordance with BS 4443. 7. Minimum laps to all bars to be 500 unless stated otherwise.	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 ² .	Drawn by	DAN	D		
							Checked by	HOH	C		
							Scale	AS SHOWN	B		
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			<div>DRAWING TITLE:-</div> <div>PUMP HOUSE - STRUCTURAL DETAIL</div>								

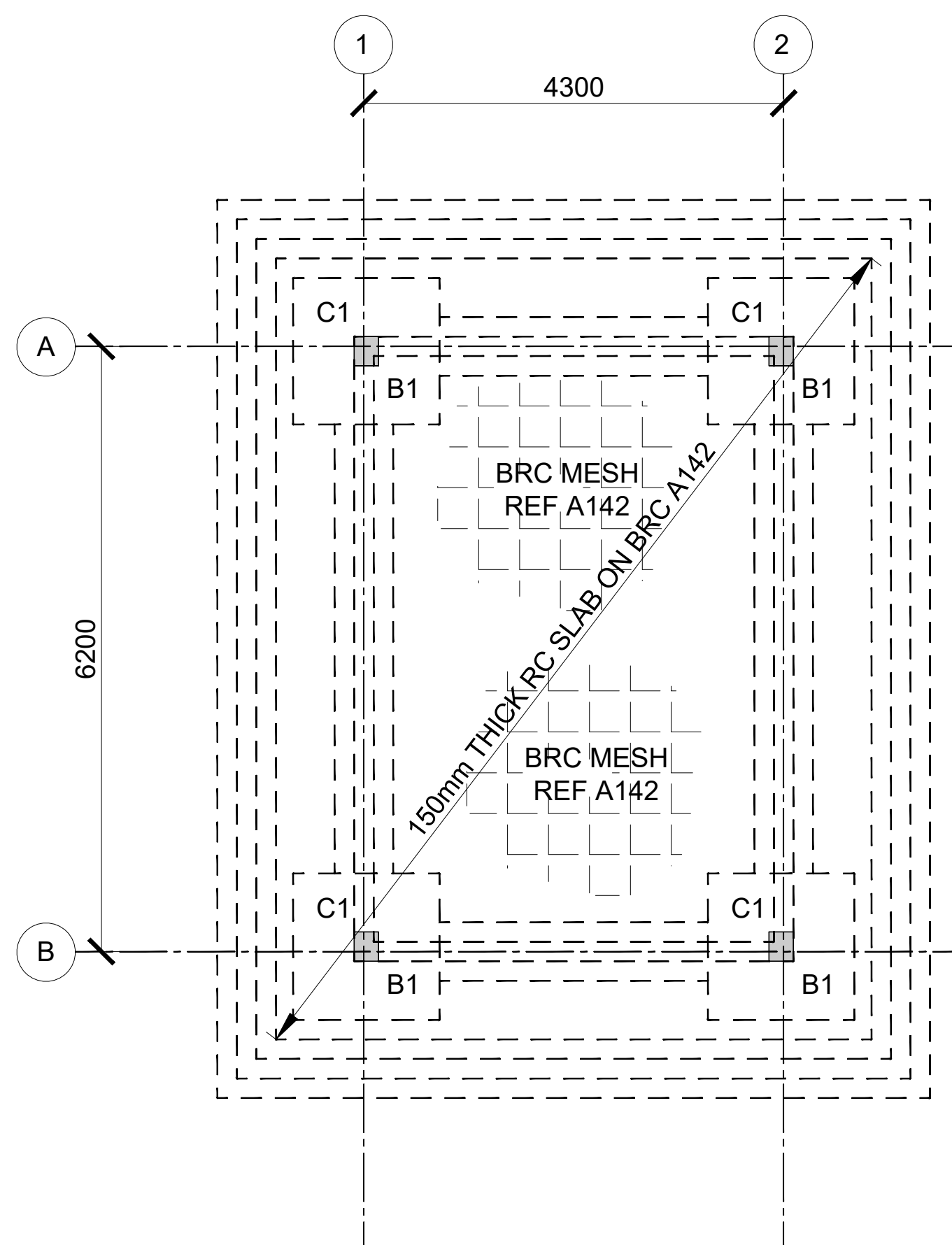
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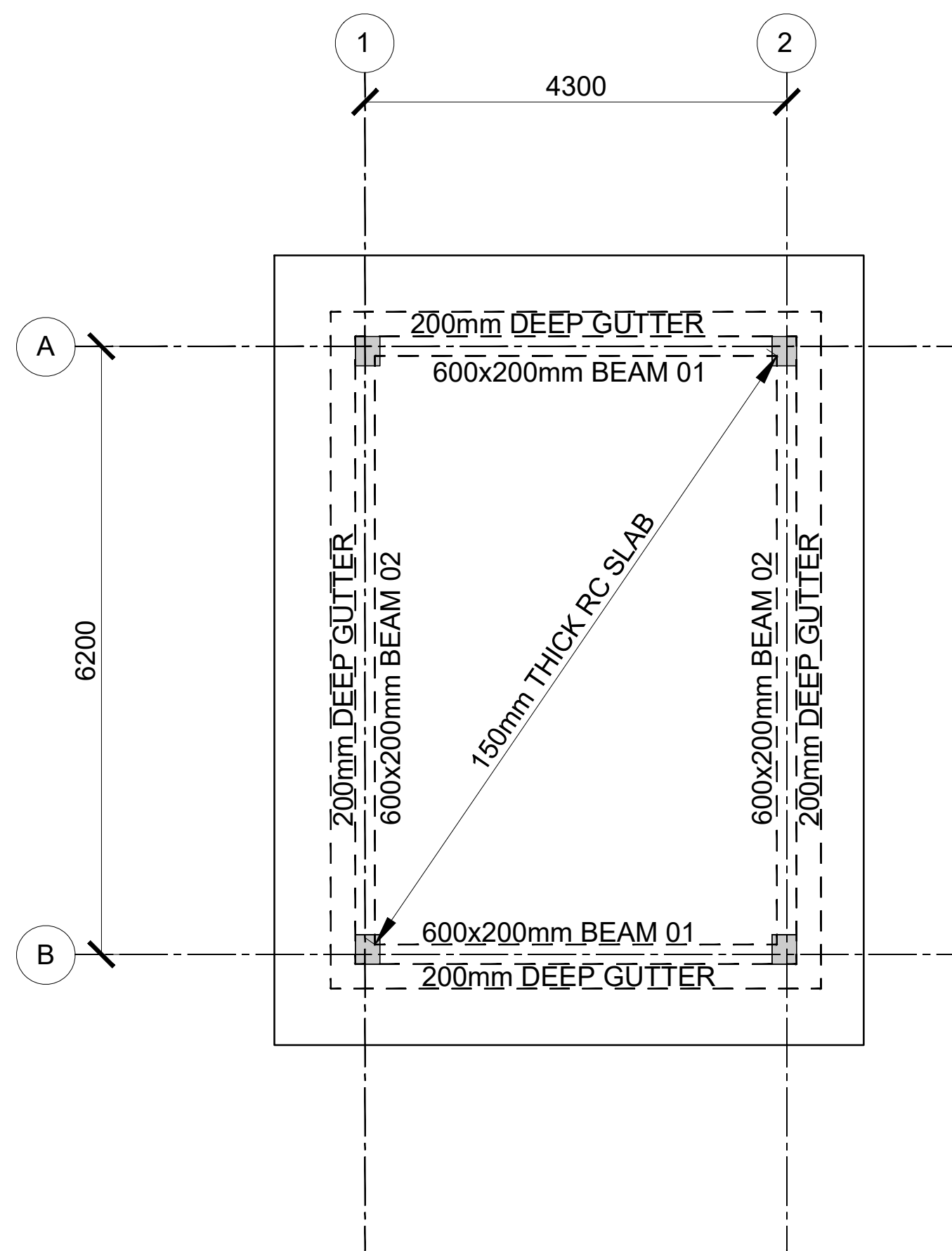
TYPICAL RECLAMATION CROSS SECTION

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 MUKOWE FISH LANDING SITE, LAMU COUNTY. DRAWING TITLE:- RECLAMATION TYPICAL CROSS-SECTION AND RETAINING WALL 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.	Stairs, Slabs & Walls = 35mm Beams (main bars) = 35mm Post-tensioned beams = 40mm Columns (main bars) = 40mm Foundations = 75mm 8. Safe Bearing Pressure taken to be 250 KN/m². 9. Nominal aggregate size to be 20mm. 10. Structural concrete to be Class 30 unless stated otherwise. 11. Concrete blinding to be Class 15 unless stated otherwise. 12. Masonry Strength to be 7.0 N/mm².	<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																															
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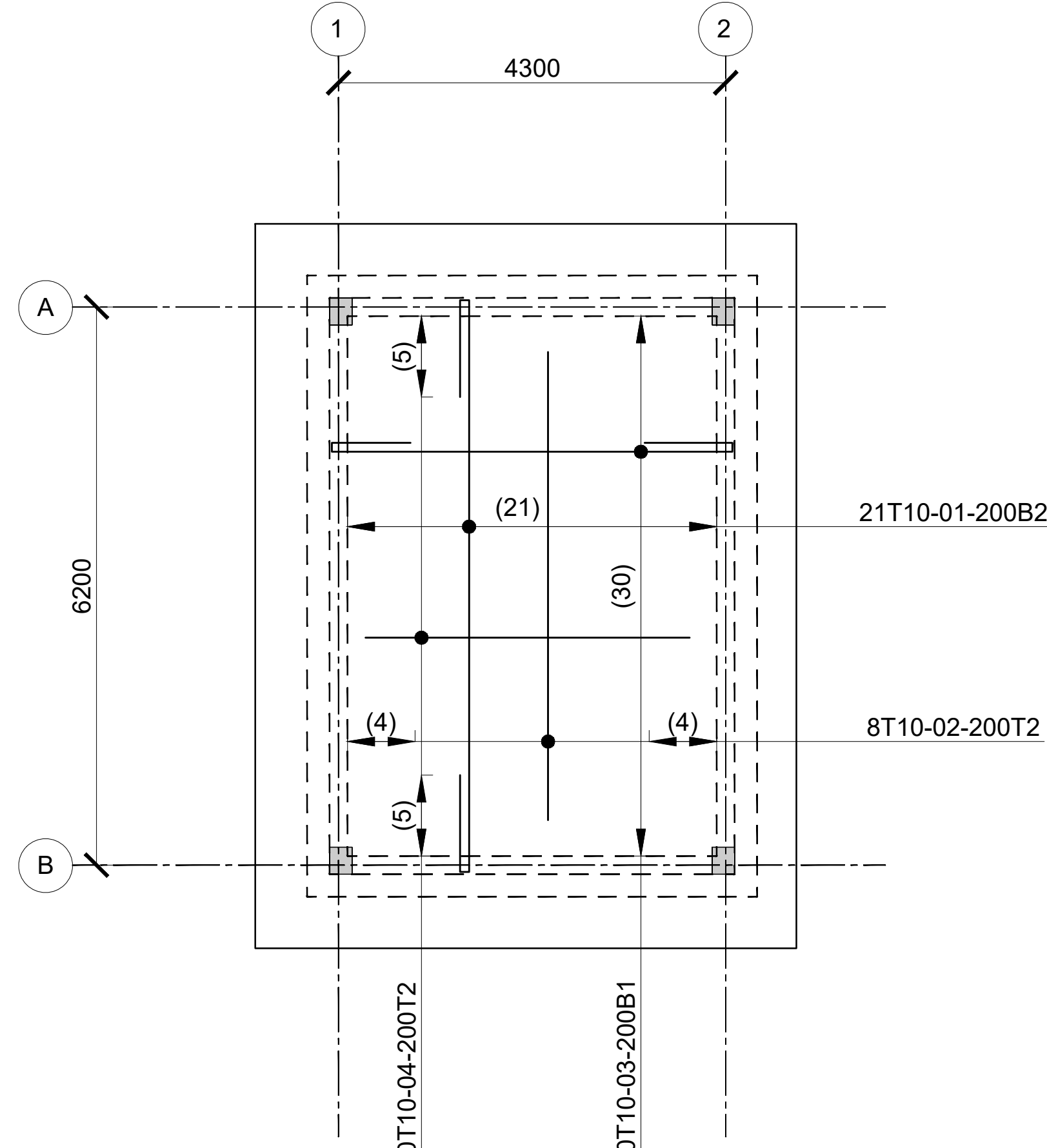
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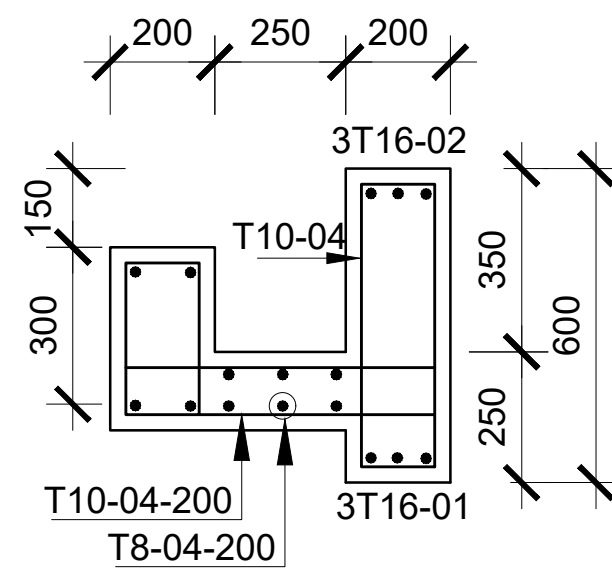
FOUNDATION/GROUND FLOOR LAYOUT
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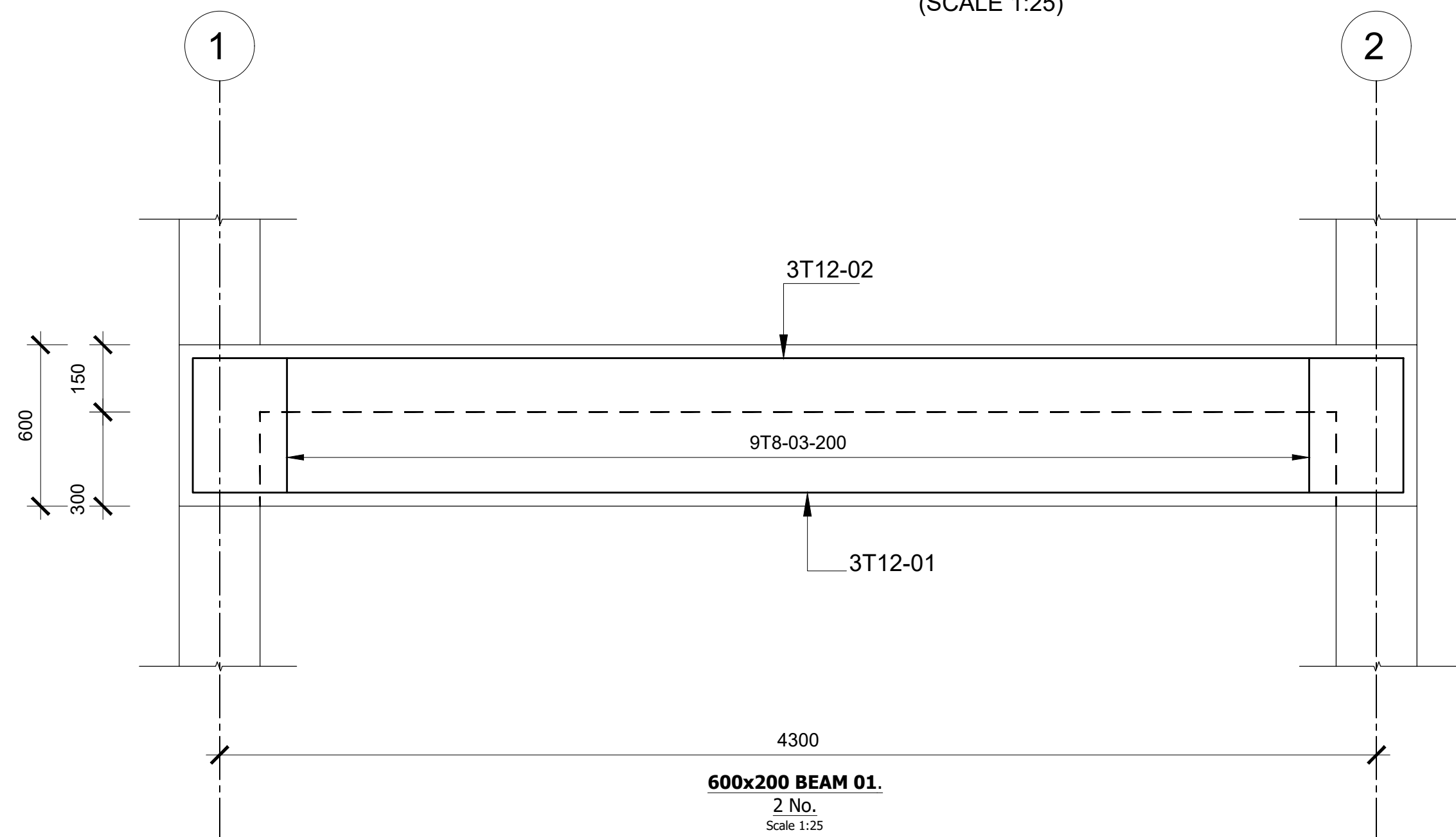
ROOF LAYOUT
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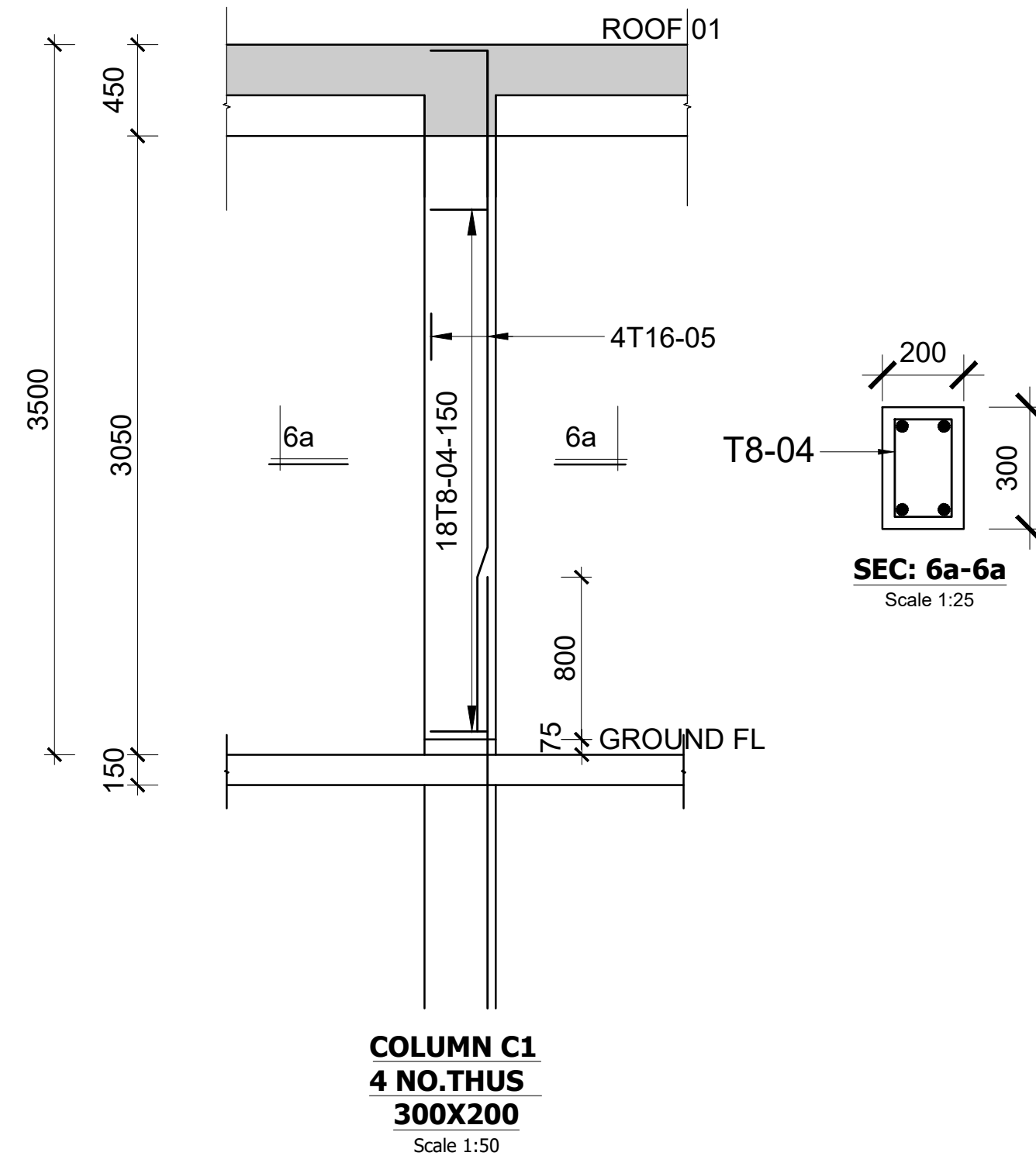
ROOF SLAB RC DETAIL
(SCALE 1:100)



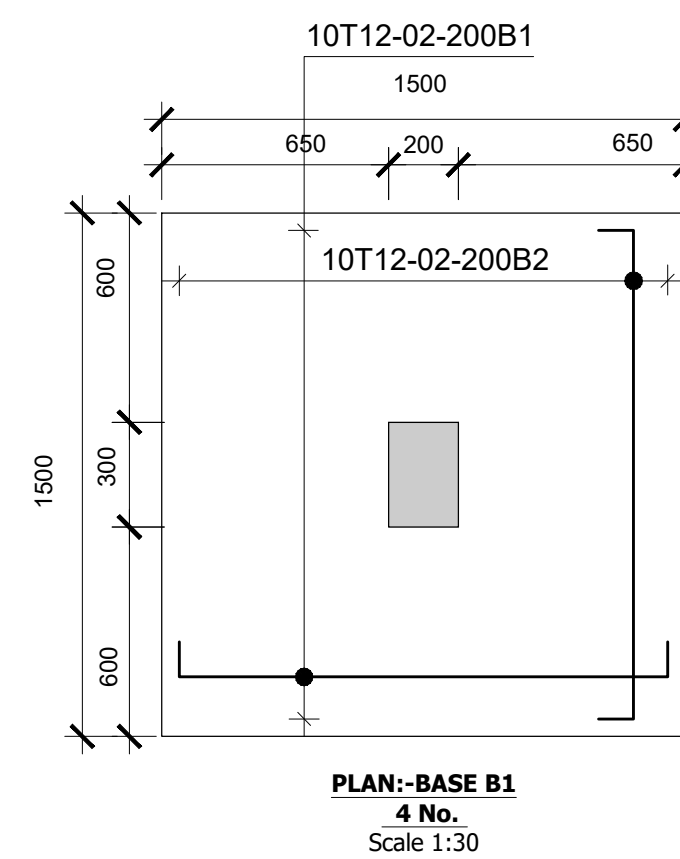
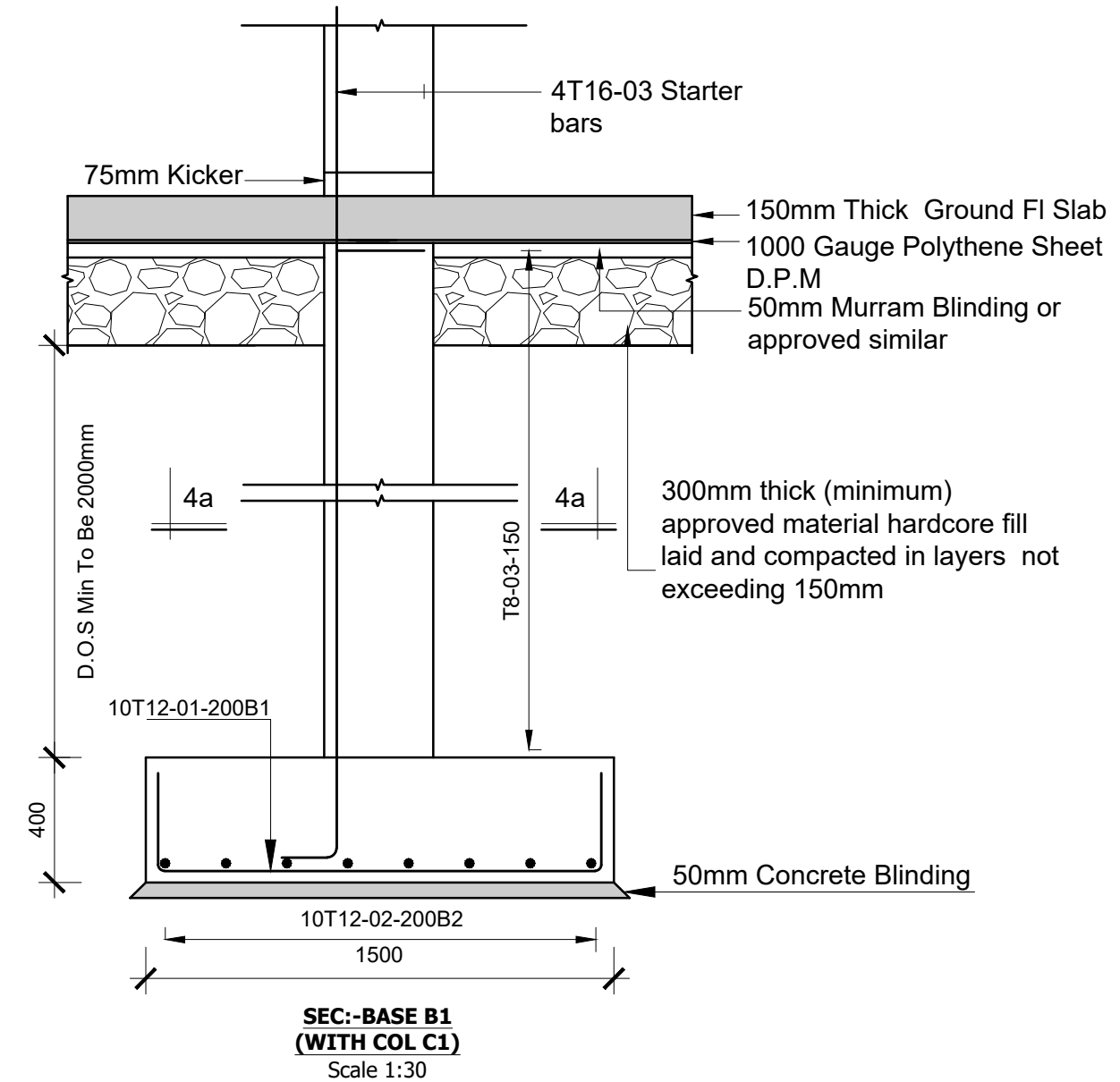
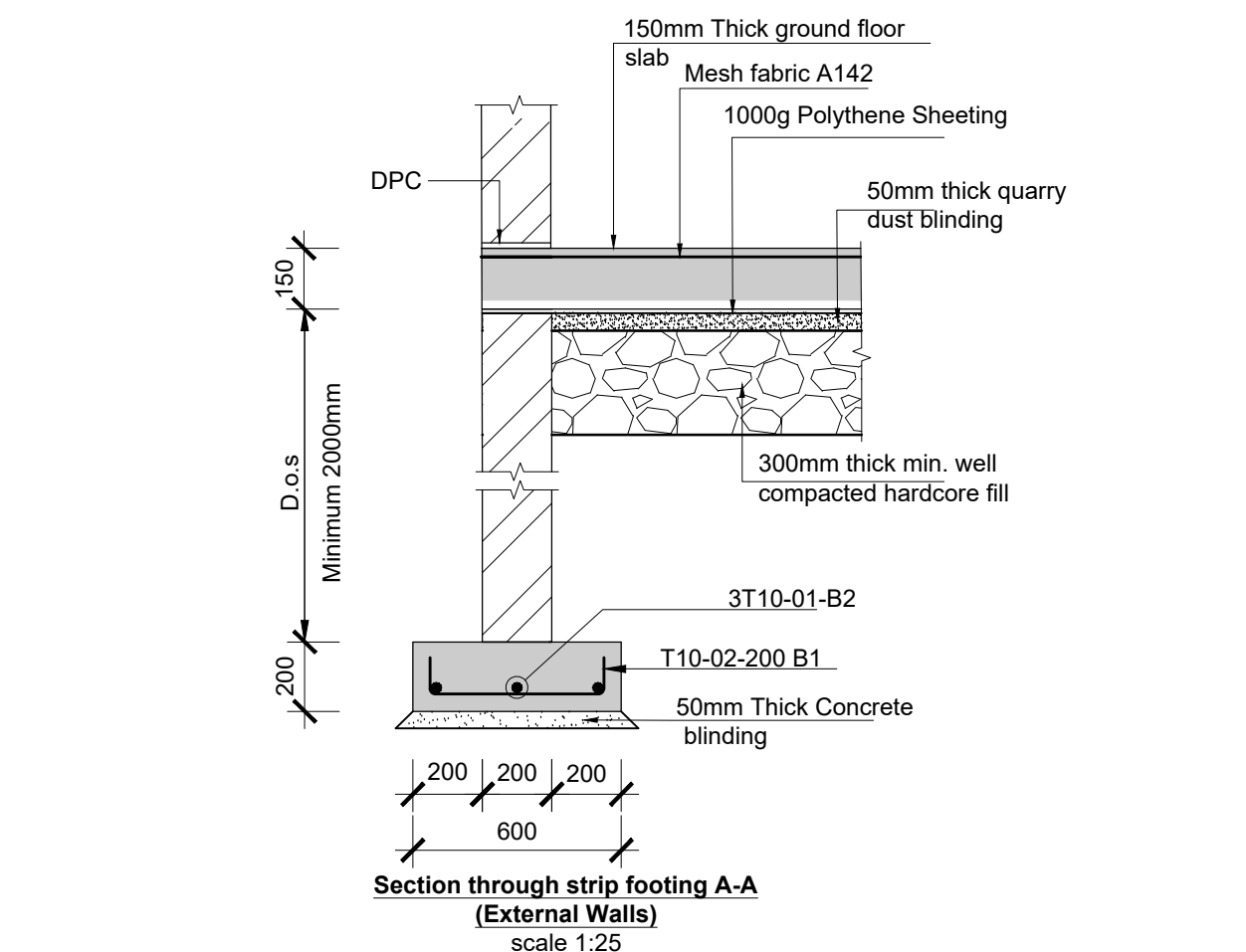
GUTTER SECTION
(SCALE 1:25)



SECTION A-A
Scale 1:25



COLUMN C1
4 NO. THUS
300X200
Scale 1:50



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

DRAWING NO. 09-002-20

Consultant:-
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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 MUKOWE FISH LANDING SITE, LAMU COUNTY.

DRAWING TITLE:-
GENERATOR ROOM - STRUCTURAL 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.
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4. Minimum cover to all reinforcement to be:

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- 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/mm².

DRAWING TITLE: PROPOSED FISH LANDING SITES/MARKETS FISHERIES OFFICES - MUKOWE**DRAWING NUMBER: 09-003E- 001**

No.	DRAWING/ DOCUMENT TITLE	DRAWING NUMBER	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
D	ELECTRICAL ENGINEERING DRAWINGS				
1	LIST OF DRAWINGS	09- 003E- 001	A3	PDF/ EXCEL	Provided
2	LIGHTING & POWER SYSTEM GENERAL NOTES	09- 003E- 002	A3	PDF/ DWG	Provided
3	ELECTRICAL SCHEDULE OF SYMBOLS	09- 003E- 003	A3	PDF/ DWG	Provided
4	ABLUTION BLOCK LIGHTING LAYOUT	09- 003E- 004	A2	PDF/ DWG	Provided
5	ABLUTION BLOCK POWER LAYOUT	09- 003E- 005	A2	PDF/ DWG	Provided
6	FISH BANDA GROUND FLOOR LIGHTING LAYOUT	09- 003E- 006	A2	PDF/ DWG	Provided
7	FISH BANDA GROUND FLOOR POWER LAYOUT	09- 003E- 007	A2	PDF/ DWG	Provided
8	FISH BANDA GROUND FLOOR FIRE ALARM	09- 003E- 008	A2	PDF/ DWG	Provided
9	FISH BANDA GROUND FLOOR CCTV LAYOUT	09- 003E- 009	A2	PDF/ DWG	Provided
10	FISH BANDA GROUND FLOOR FANS LAYOUT	09- 003E- 010	A2	PDF/ DWG	Provided
11	FISH BANDA SCHEMATIC	09- 003E- 011	A2	PDF/ DWG	Provided
12	FISH BANDA FIRST FLOOR ELECTRICAL LAYOUT	09- 003E- 012	A2	PDF/ DWG	Provided
13	FISH BANDA LIGHTNING ARRESTOR LAYOUT	09- 003E- 013	A2	PDF/ DWG	Provided
14	GUARD HOUSE ELECTRICAL LAYOUT	09- 003E- 014	A2	PDF/ DWG	Provided
15	GUARD HOUSE SCHEMATIC LAYOUT	09- 003E- 015	A2	PDF/ DWG	Provided
16	PUMP HOUSE LIGHTING LAYOUT	09- 003E- 016	A2	PDF/ DWG	Provided
17	PUMP HOUSE POWER LAYOUT	09- 003E- 017	A2	PDF/ DWG	Provided
18	PUMP HOUSE FIRE ALARM LAYOUT	09- 003E- 018	A2	PDF/ DWG	Provided
19	PUMP HOUSE SCHEMATIC	09- 003E- 019	A2	PDF/ DWG	Provided
20	SOLAR SCHEMATIC	09- 003E- 020	A2	PDF/ DWG	Provided
21	POWER HOUSE ELECTRICAL LAYOUT	09- 003E- 021	A2	PDF/ DWG	Provided
22	POWER HOUSE SCHEMATIC	09- 003E- 022	A2	PDF/ DWG	Provided
23	SITE POWER LAYOUT	09- 003E- 021	A2	PDF/ DWG	Provided
24	STREET LIGHT DETAIL	09- 003E- 022	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 KPLC 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 KPLC 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 'C' MAGNETIC CURVE RATING UNLESS OTHERWISE INDICATED IN THE PLANS. UNLESS OTHERWISE STATED, ALL BUSBAR ARE OF HD COPPER AND SHALL BE RATED AT A CURRENT DENSITY OF NO MORE THAN 1.55A/sq. mm.
20. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL NECESSARY LABOUR, MATERIALS AND EQUIPMENT FOR SATISFACTORY COMPLETION OF THE ENTIRE ELECTRICAL INSTALLATION AS GENERALLY DESCRIBED IN THE SPECIFICATION AND/OR SHOWN ON DRAWINGS.
21. ALL LOCATIONS OF EQUIPMENT AND CABLE ROUTES SHOWN ON THE DRAWING ARE APPROXIMATE. THE EXACT LOCATIONS MUST BE CO-ORDINATED ON SITE BEFORE INSTALLATION. FULLY CO-ORDINATED SHOP DRAWINGS MUST BE SUBMITTED TO THE CONSULTANT FOR APPROVAL BEFORE COMMENCEMENT OF WORK.
22. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST DEWA REGULATIONS AND THE APPROVAL OF POWER UTILITY COMPANY. THEY SHALL BE PAINTED WITH A COAT OF ANTI-RUST PAINT AND TWO COATS OF SEMI-GLOSS TEAK PAINT OF BEST QUALITY TO THE APPROVAL OF THE CONSULTANT.
23. ALL POWER CONDUITS AND TRUNKING WHICH ARE EXPOSED SHALL BE PAINTED WITH A COAT OF RUST-RESISTING PRIMER AND TWO COATS OF ELECTRIC ORANGE.
24. ALL CONDUITS SHALL BE G.I., G.I. CONDUITS SHALL COMPLY WITH THE LATEST DEWA REGULATIONS ON ELECTRICAL INSTALLATIONS. MINIMUM SIZE SHALL NOT BE LESS THAN 20mm (INSIDE DIAMETER). ALL THREADS IN CONDUITS SHALL BE TREATED WITH ALUMINUM PAINT OR SIMILAR ANTITRUST 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 RUPITURING 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 LIASE 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 RESISTIVITY 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 SERVICES. EXPOSE CONDUIT/ WIRE SHALL NOT BE ACCEPTED.
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 SUPERVISOR 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 CRCUIT 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 - 1400mm TO CENTRELINE

SWITCH SOCKET OUTLETS - 300mm TO CENTRELINE

DISTRIBUTION BOARDS - GENERALLY 1800mm TO TOP OF BOARD

WALL/COLUMN LIGHTS - 2500mm TO CENTRELINE
5. THE ELECTRICAL CONTRACTOR SHALL NOTE THAT THE POSITIONS OF ELECTRICAL POINTS, LUMINAIRES, LIGHTING SWITCHES, SWITCH SOCKET OUTLETS ETC. ARE INDICATIVE AND APPROXIMATE AS SHOWN ON DRAWINGS. THE ACTUAL POSITIONS SHALL BE BASED ON THE CONSULTANT'S OR INTERIOR DESIGNER'S DRAWING. THE ELECTRICAL SUB-CONTRACTOR IS DEEMED TO 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

PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH
LANDING SITE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
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DRAWING TITLE:

ELECTRICAL DRAWINGS
NOTES

Dwg. No.	09- 003E- 002		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:		Date:	
09		24.11.2023	

SCHEDULE OF SYMBOLS AND LIGHTING LUMINAIRES



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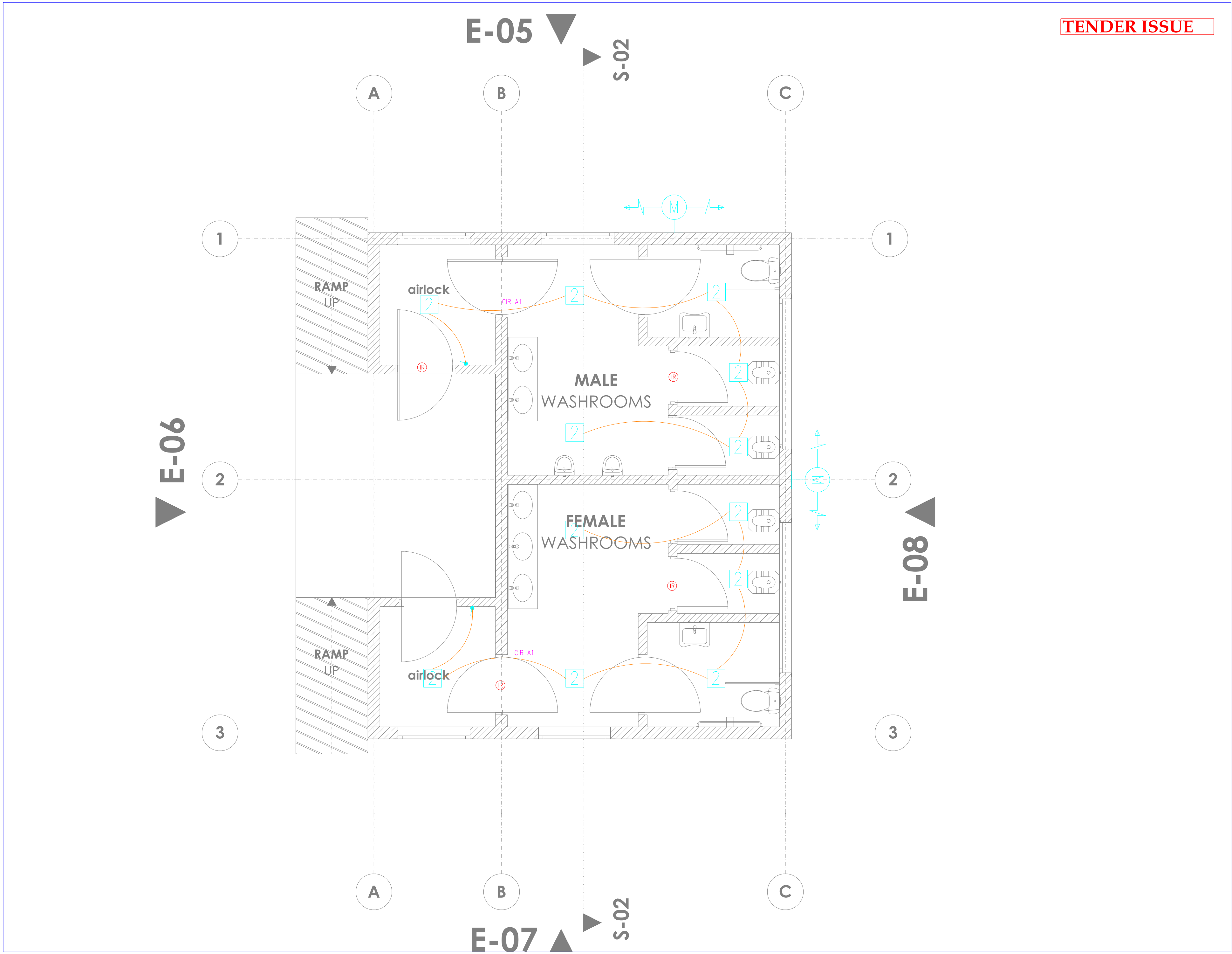
DRAWING TITLE:

SCHEDULE OF SYMBOLS
AND LIGHTING
LUMINAIRES

Dwg. No.	09- 003E- 003		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
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	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 Complete with 100A TP integral isolator and all accessories including lockable cover with the the required MCB's and Blanking plates		SPN Consumer Unit 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 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 luminaire
	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. Blade size: 12 feet; Fan Speed: 50RPM; Noise Level: 50DB		Type 'F1' 49W 3 Blade Basic Ceiling Sweep Fan . Sweep: 1200mm; Fan Speed: 350RPM
	IP 67- Water & Dust Resistant, 4MP, Excellent low- light performance, 24/7 colourful imaging, Efficient Compression Technology Bullet CCTV Camera		IP 67- Water & Dust Resistant, 4MP, Excellent low- light performance, 24/7 colourful imaging, Efficient Compression Technology DOME CCTV Camera
	Type '4U' 34W 1200mm High performance LED UV IP65, dust and moisture resistant luminaire		



TENDER ISSUE

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REVISIONS:

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

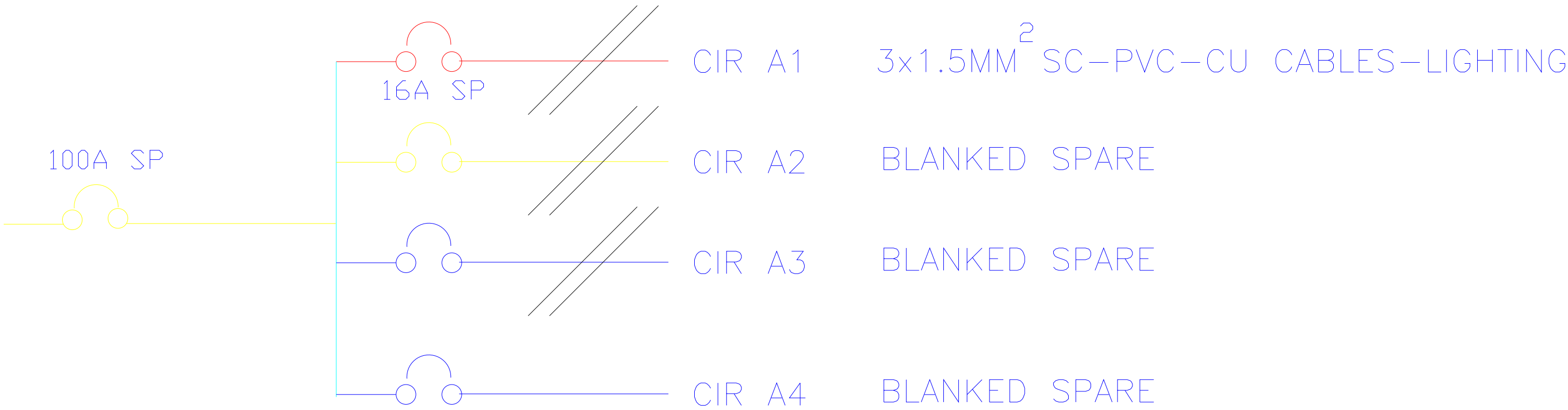
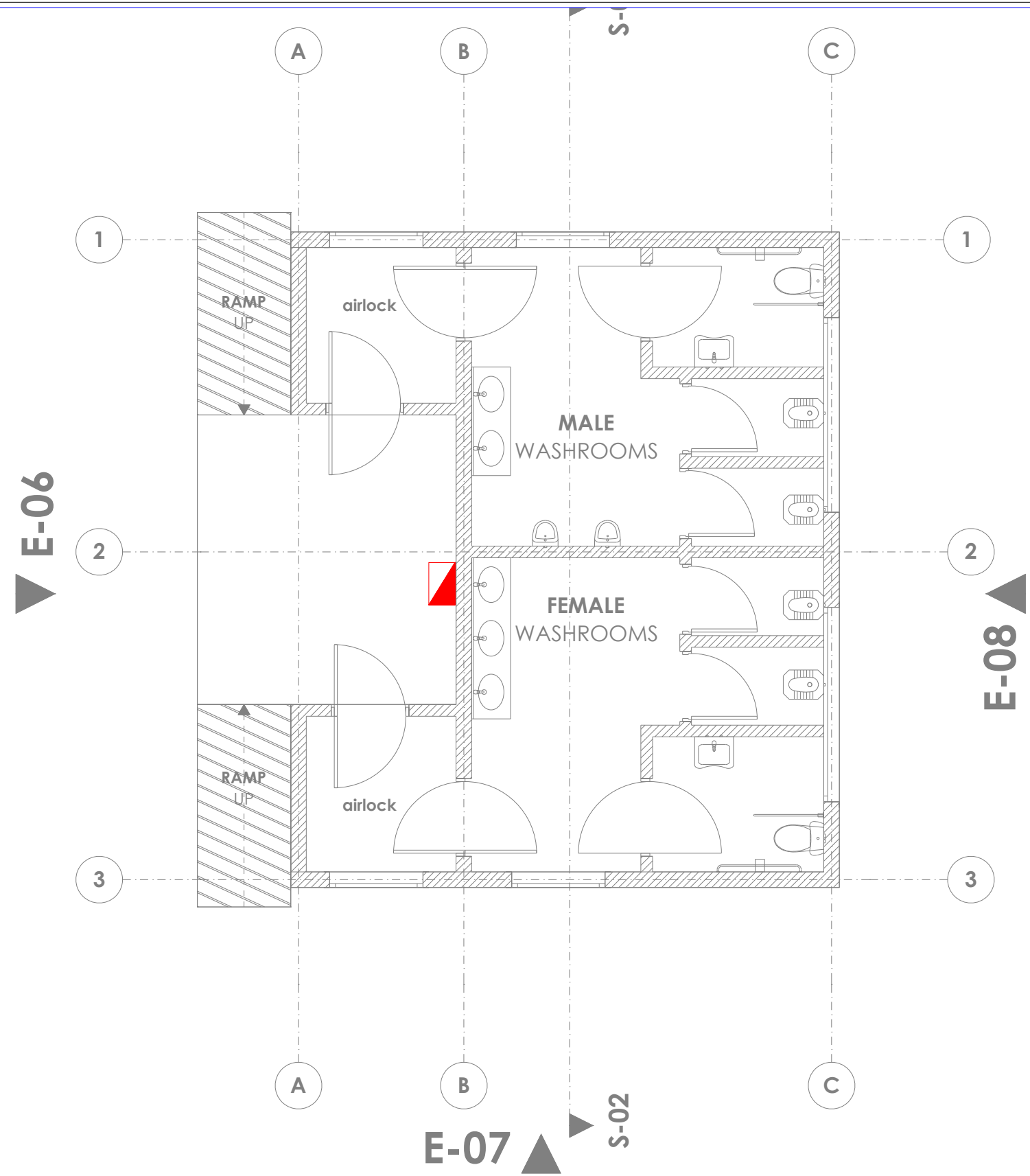
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DRAWING TITLE:

ABLUTION BLOCK
LIGHTING LAYOUT

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Project no.:	Date:
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TENDER ISSUE



4- WAY 100A CONSUMER UNIT FOR ABOLITION BLOCK

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DRAWING TITLE:

ABOLITION BLOCK POWER
LAYOUT

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

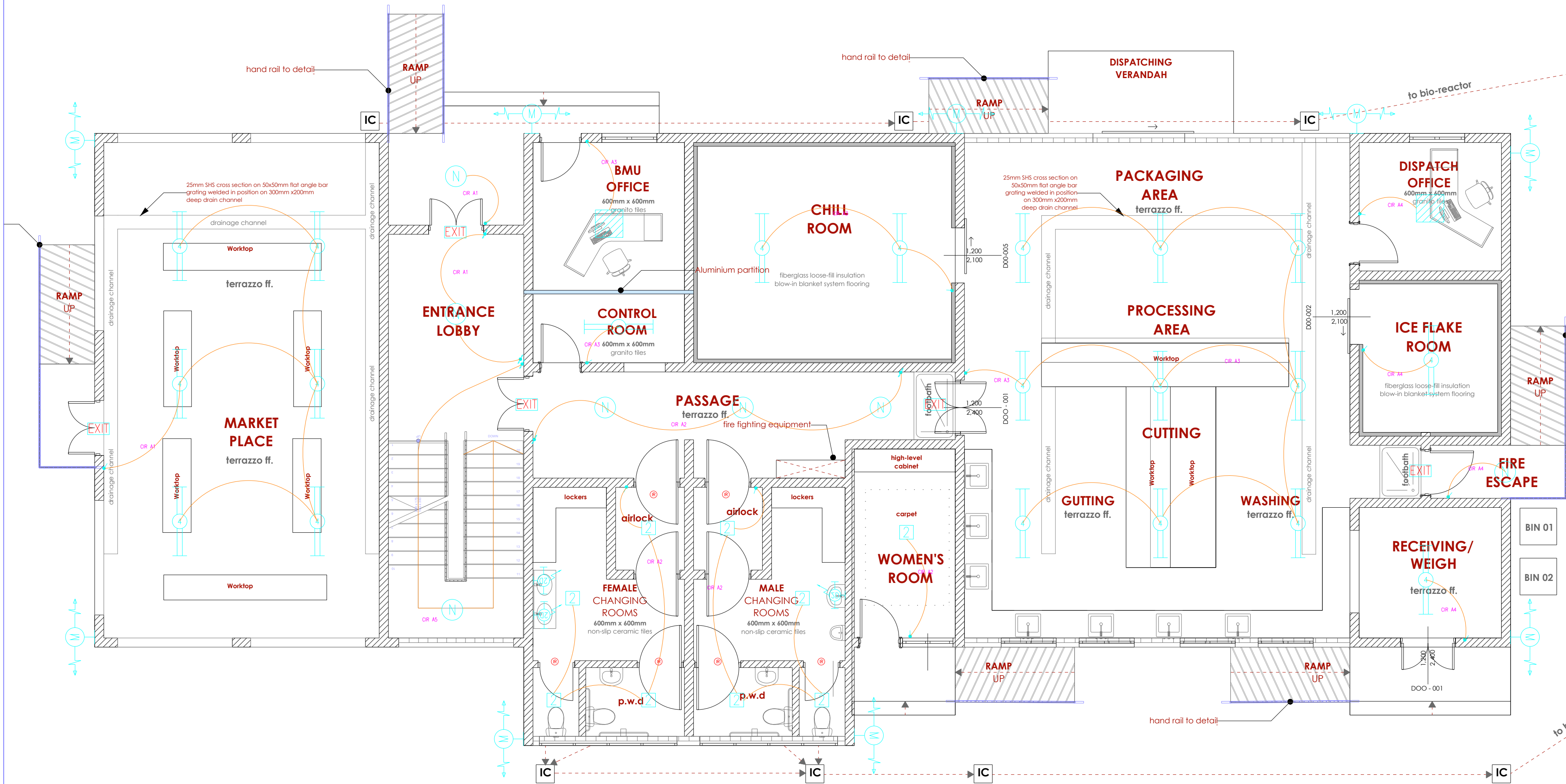
GROUND FLOOR LIGHTING
LAYOUT

Dwg. No. 09- 003E- 006

Scale: NTS

Drawn by Chek'd By

Project no.: 09 Date: 10.01.2024



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:

GROUND FLOOR POWER
LAYOUT

Dwg. No. **09- 003E- 007**

Scale: NTS

Drawn by _____

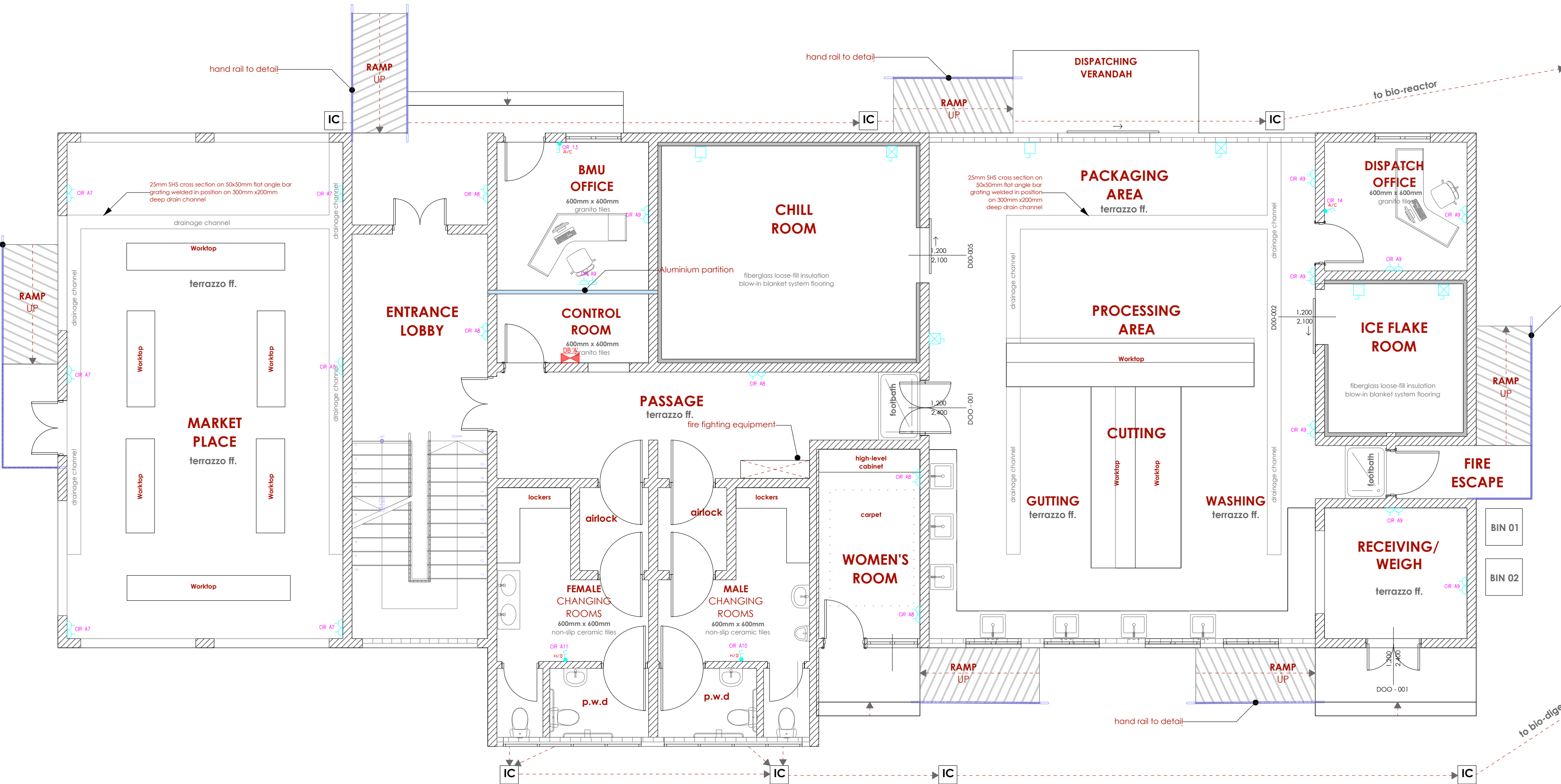
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Project no.: _____

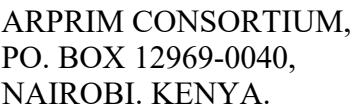
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10.01.2024



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REV. No.	Details of Revision

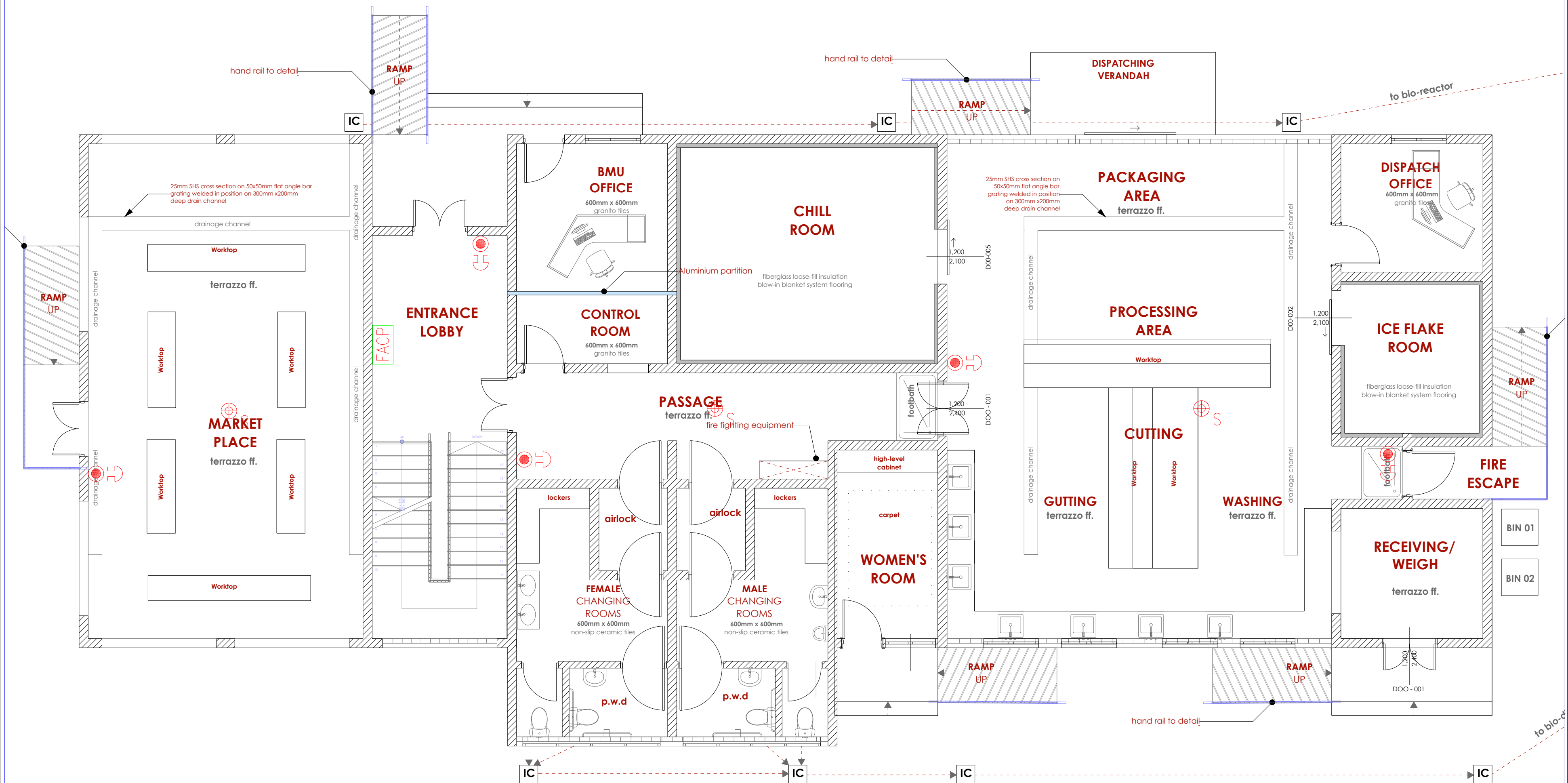
PROPOSED CONSTRUCTION OF MUKOWE FISH LANDING SITE

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

Sign:	
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GROUND FLOOR FIRE ALARM LAYOUT

Dwg. No.	09- 003E- 008		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
09	10.01.2024		



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

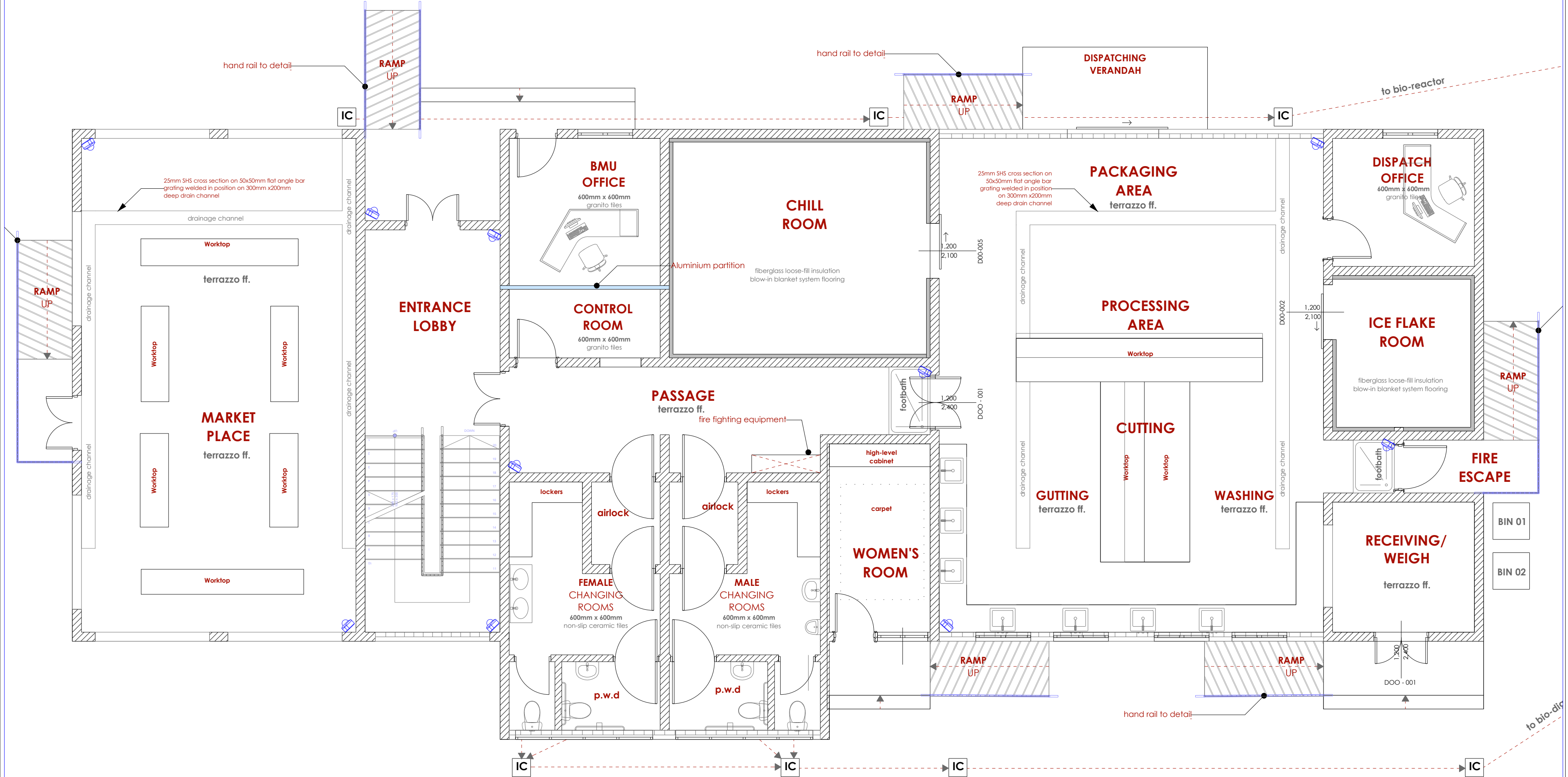
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GROUND FLOOR CCTV
LAYOUT

Dwg. No. 09- 003E- 009

Scale: NTS

Drawn by Chek'd By

Project no.: 09 Date: 10.01.2024



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:

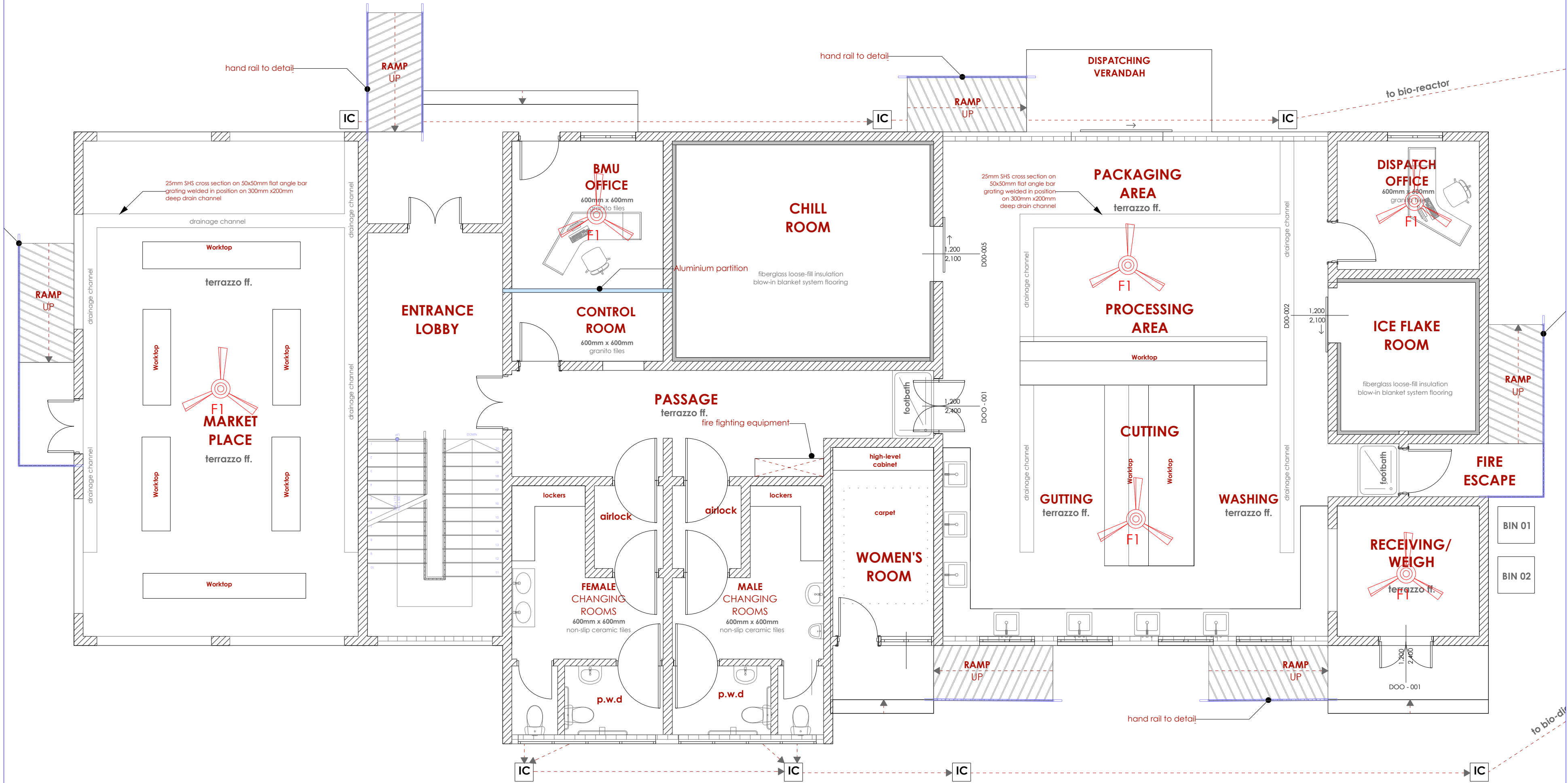
GROUND FLOOR FANS
LAYOUT

Dwg. No. **09- 003E- 010**

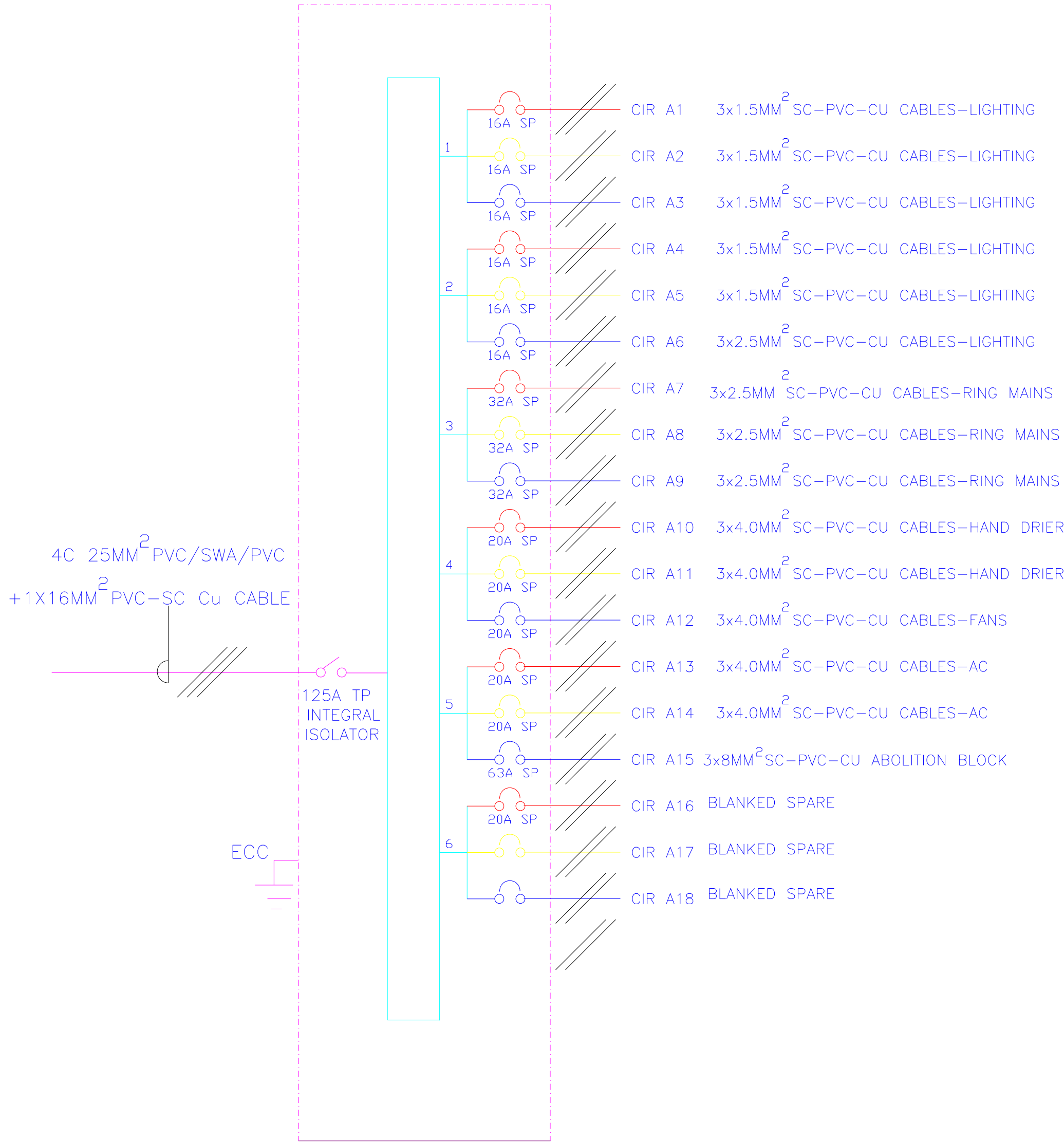
Scale: NTS

Drawn by _____ Chek'd By _____

Project no.:	Date:
09	10.01.2024



TENDER ISSUE



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

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
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DRAWING TITLE:

GROUND FLOOR
SCHEMATIC

Dwg. No.	09- 003E- 011		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:	Date:		
09	10.01.2024		

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

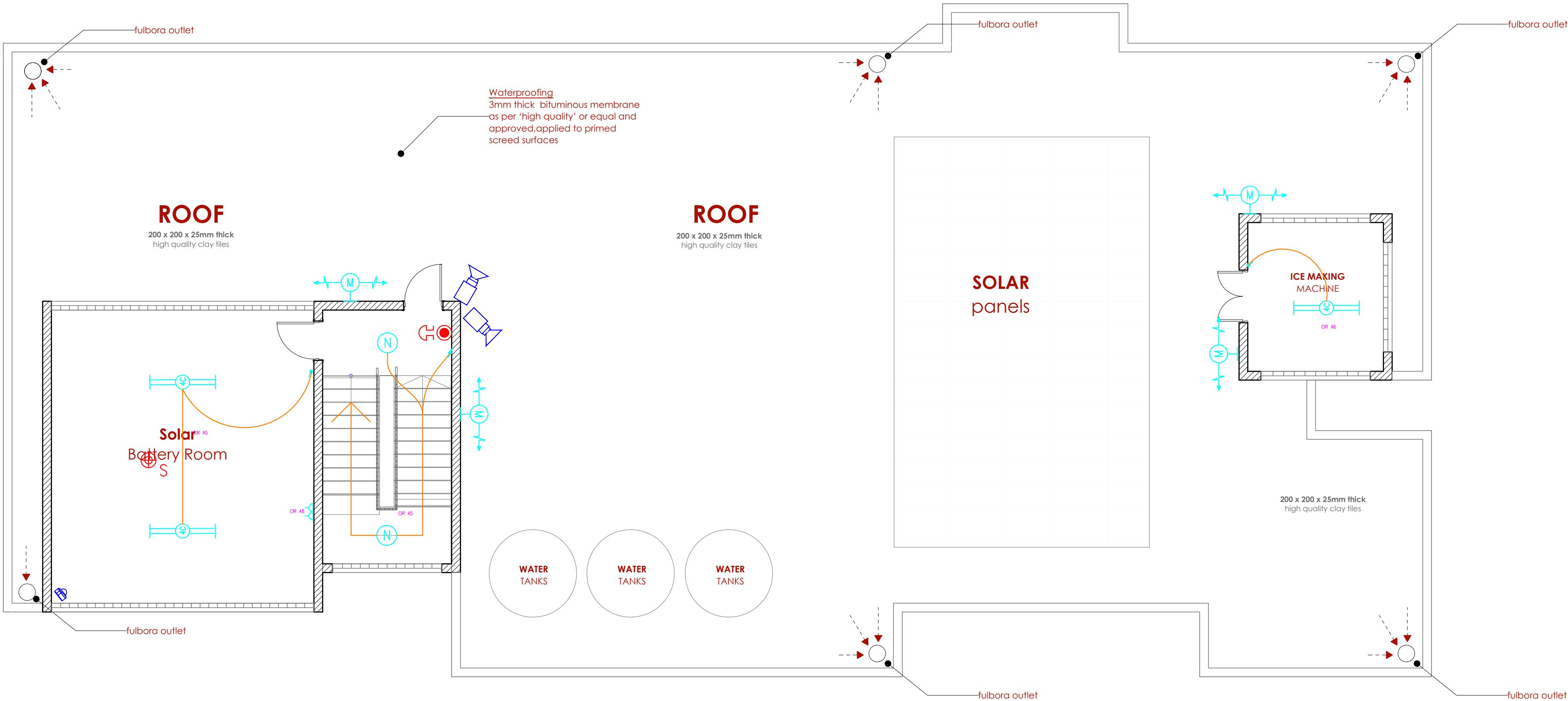
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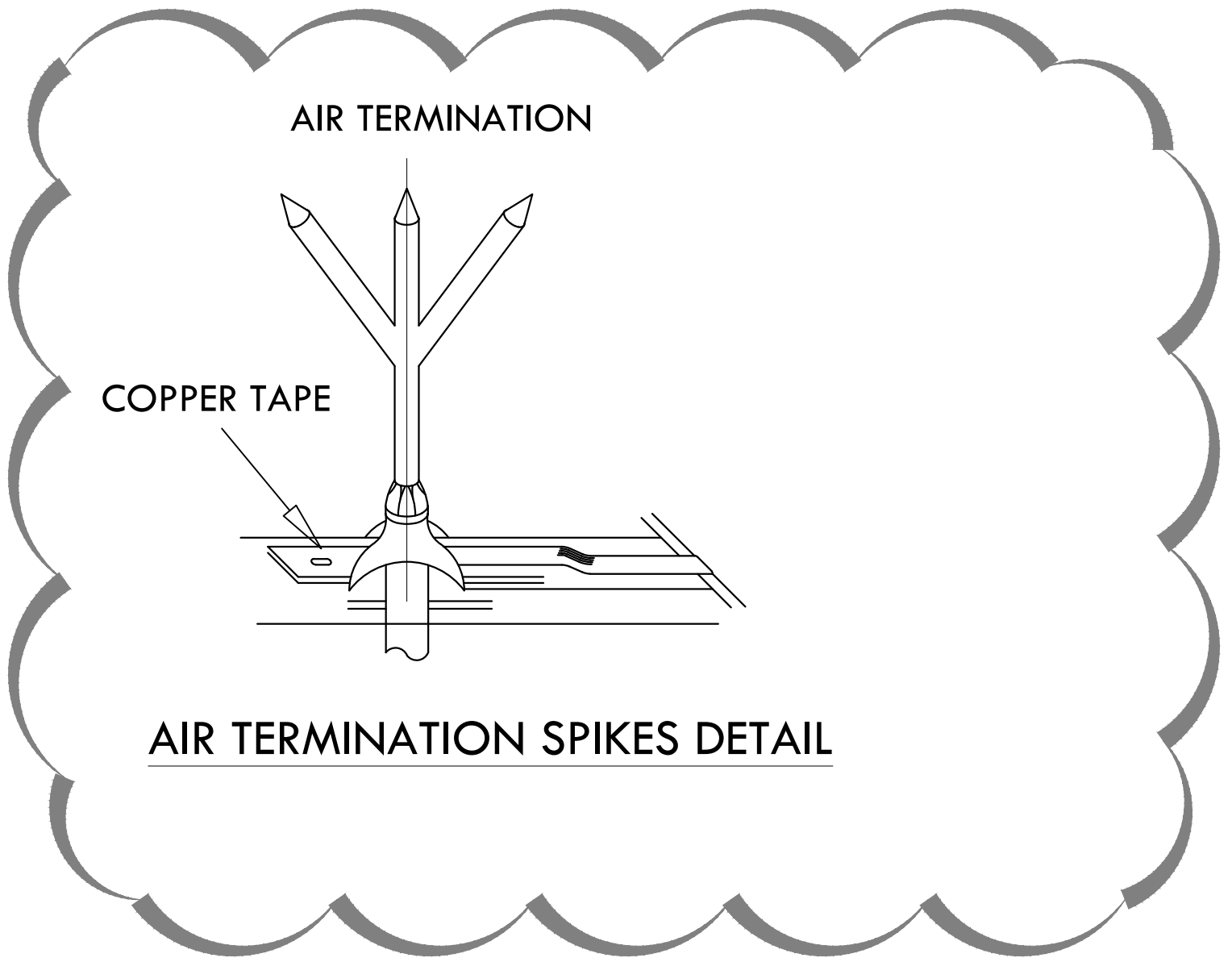
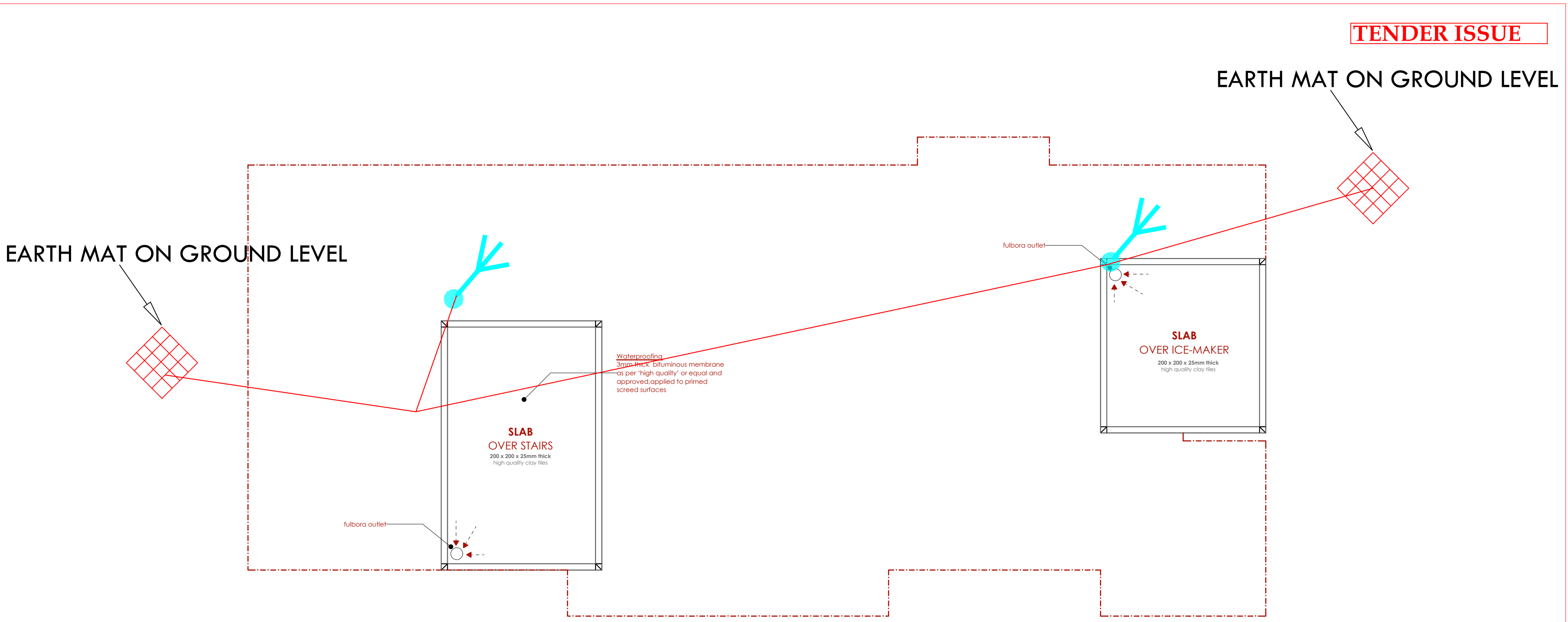
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DRAWING TITLE:


FISH BANDA FIRST FLOOR
ELECTRICAL LAYOUT

Dwg. No.	09- 003E- 012		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:		Date:	
09		10.01.2024	





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
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DRAWING TITLE:

FISH BANDA LIGHTNING
ARRESTORS

Dwg. No.	09- 003E- 013		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:		Date:	
09		10.01.2024	



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH
LANDING- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

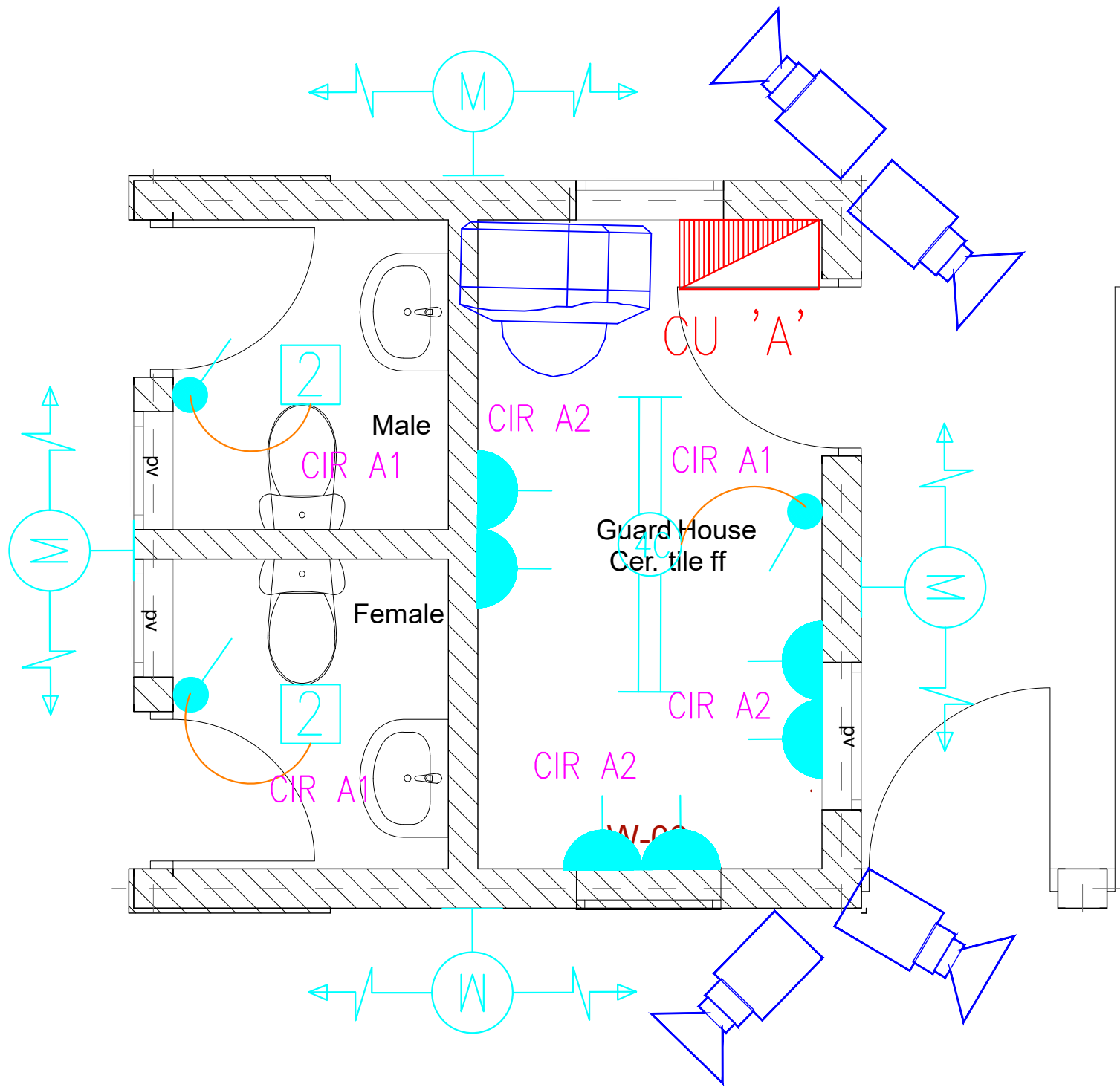
GATE HOUSE ELECTRICAL
LAYOUT

Dwg. No. 09- 003E- 14

Scale: NTS

Drawn by Chek'd By

Project no.: Date: 29.12.2023



GATE HOUSE PLAN
ELECTRICAL LAYOUT



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH
LANDING- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

GATE HOUSE SCHEMATIC

Dwg. No. 09- 003E- 15

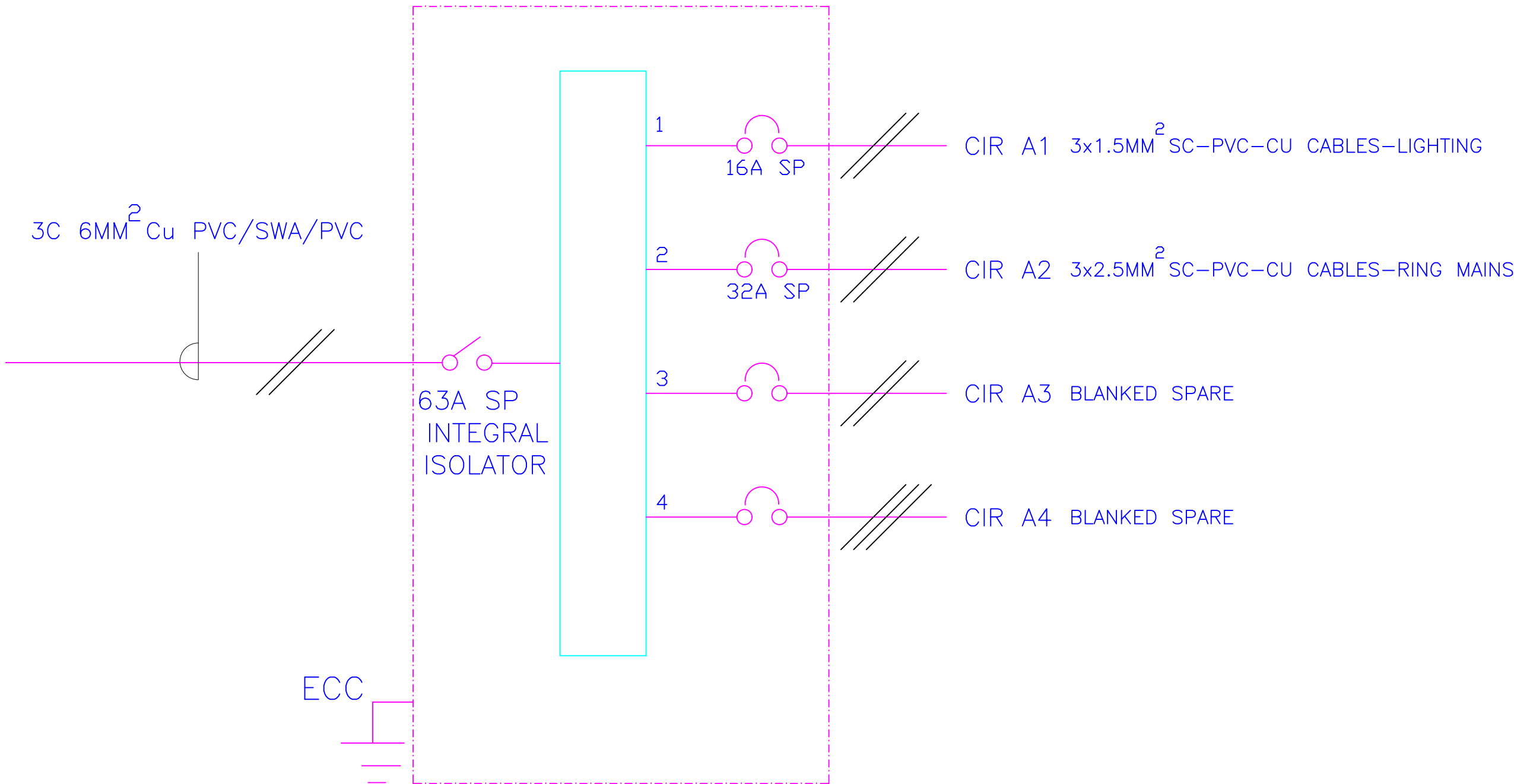
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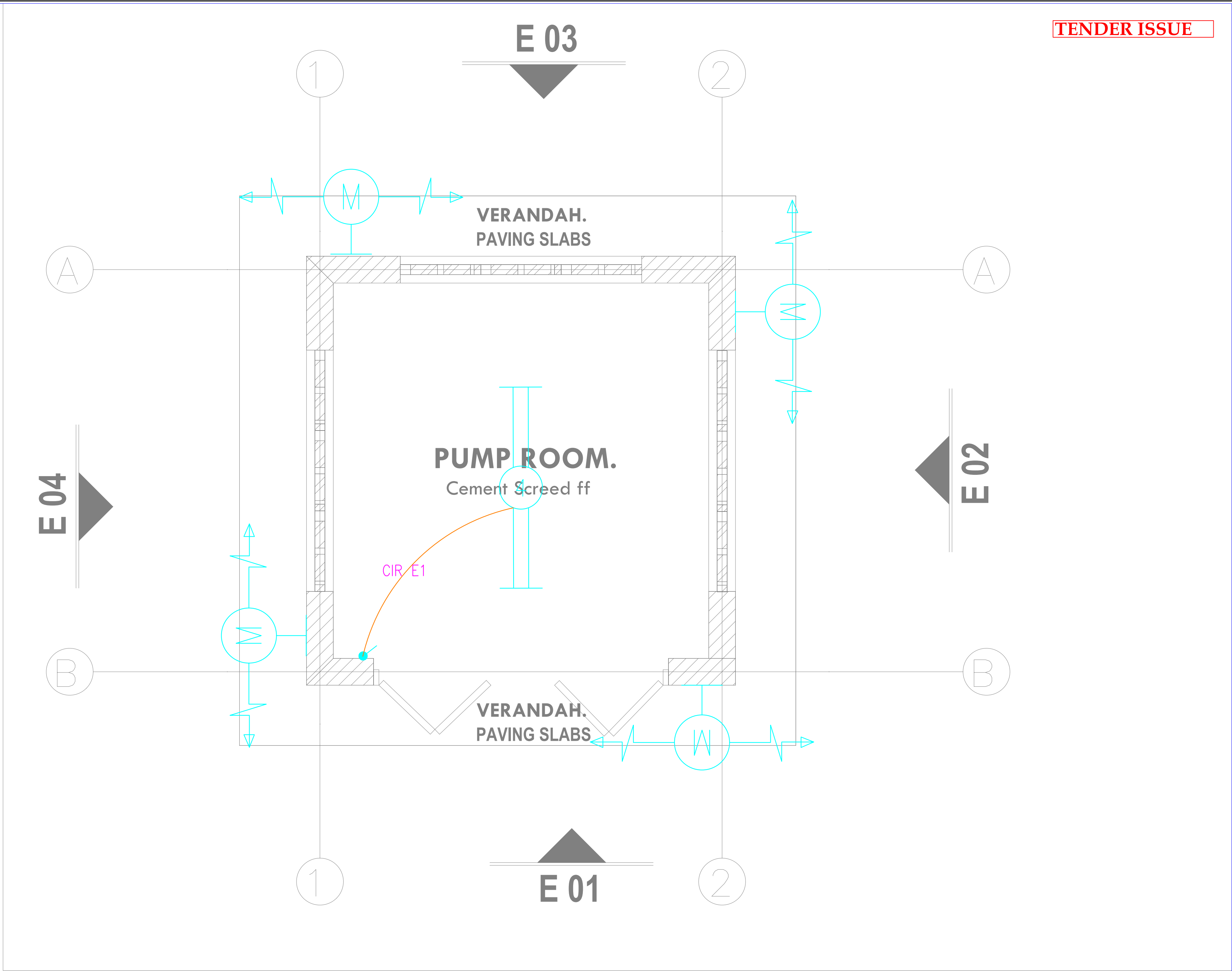
Drawn by Chek'd By

Project no.: Date:

09 29.12.2023

4- WAY 100A SPN CONSUMER UNIT 'A' FOR RAW POWER DISTRIBUTION- GUARD HOUSE





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH
LANDING- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

PUMP ROOM BLOCK
LIGHTING LAYOUT

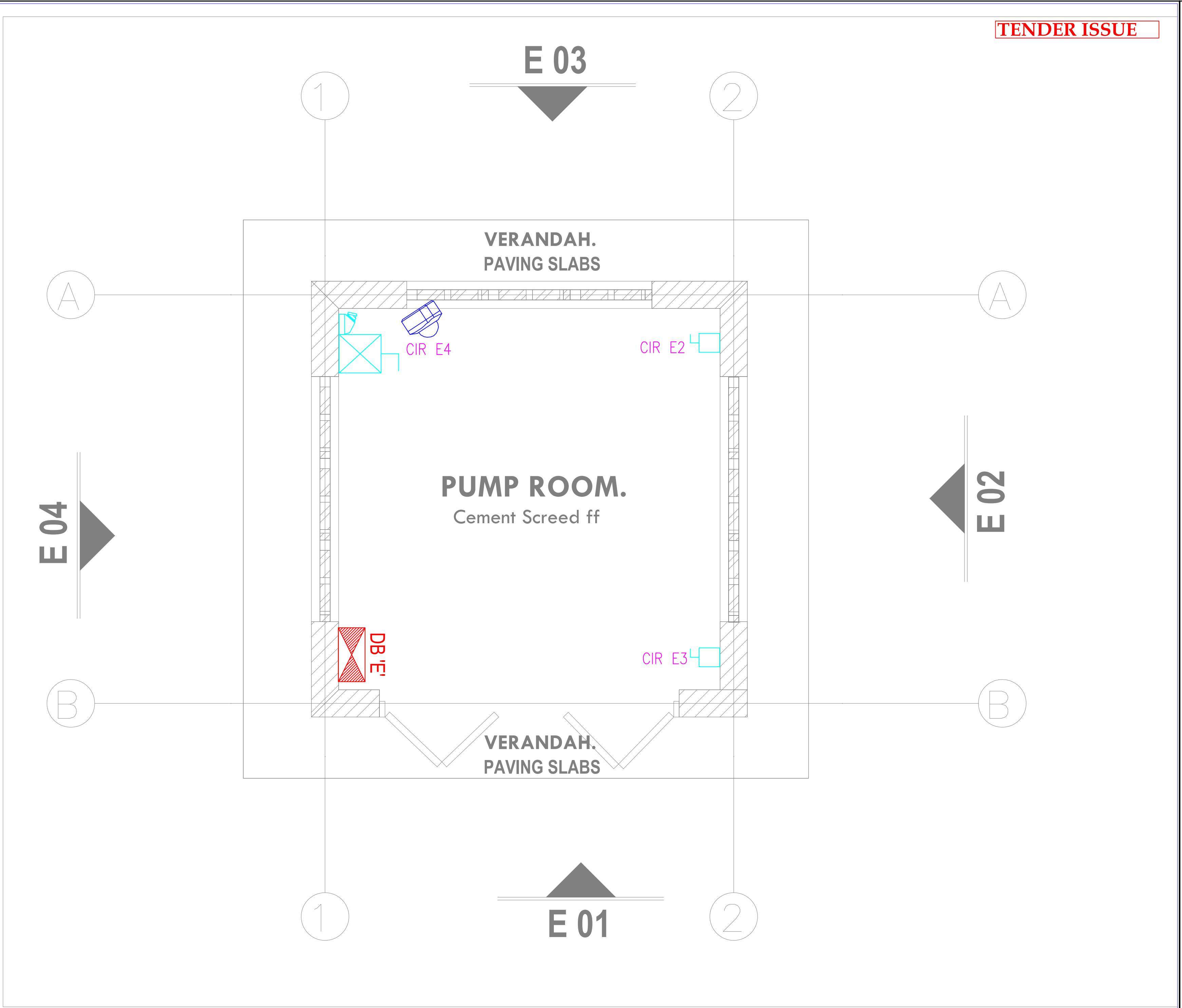
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09 31.01.2024



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH
LANDING- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

PUMP ROOM BLOCK
POWER LAYOUT

Dwg. No. 09- 003E- 017

Scale: NTS

Drawn by Chek'd By

Project no.:	Date:
09	31.01.2024



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

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH
LANDING- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

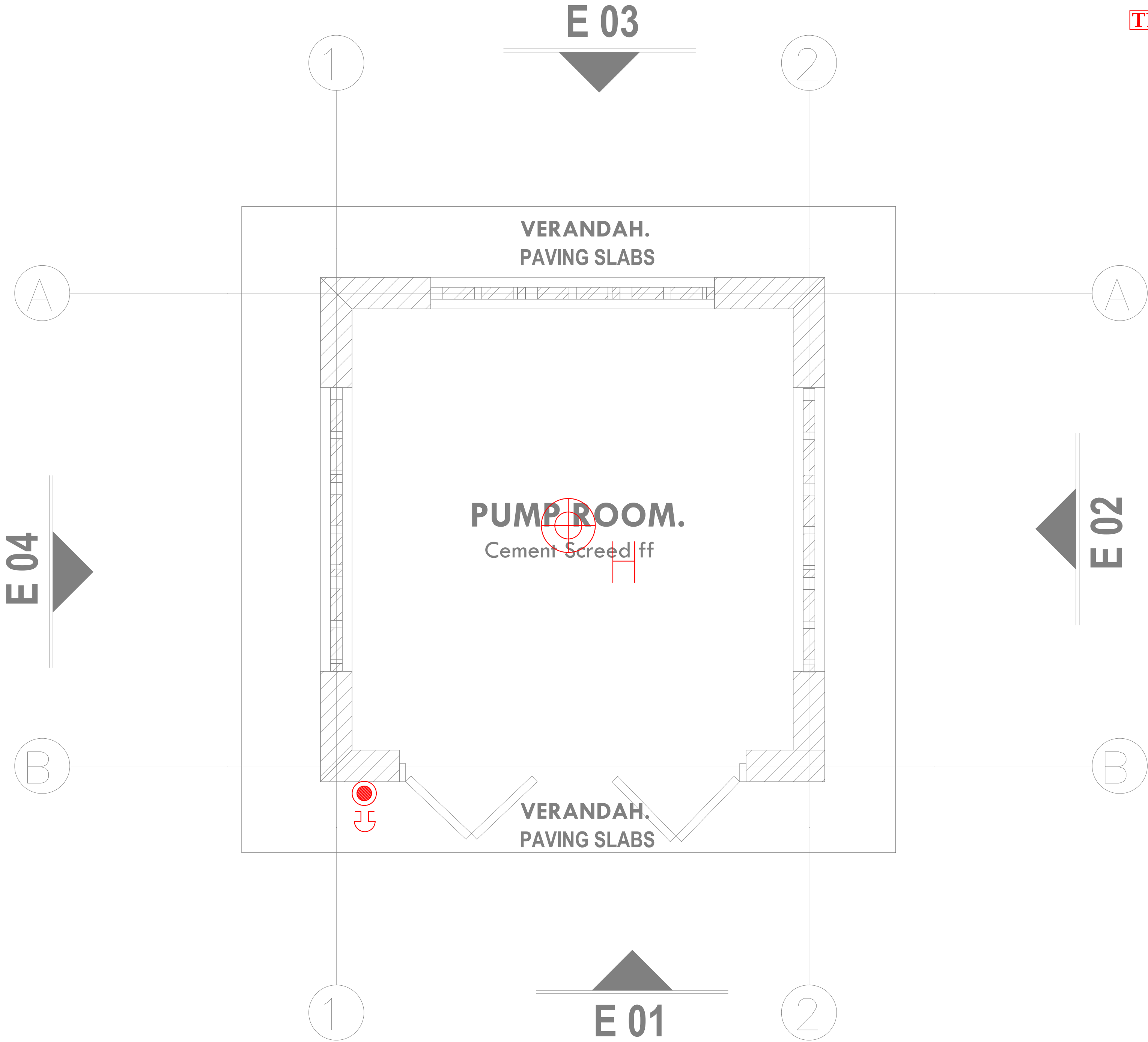
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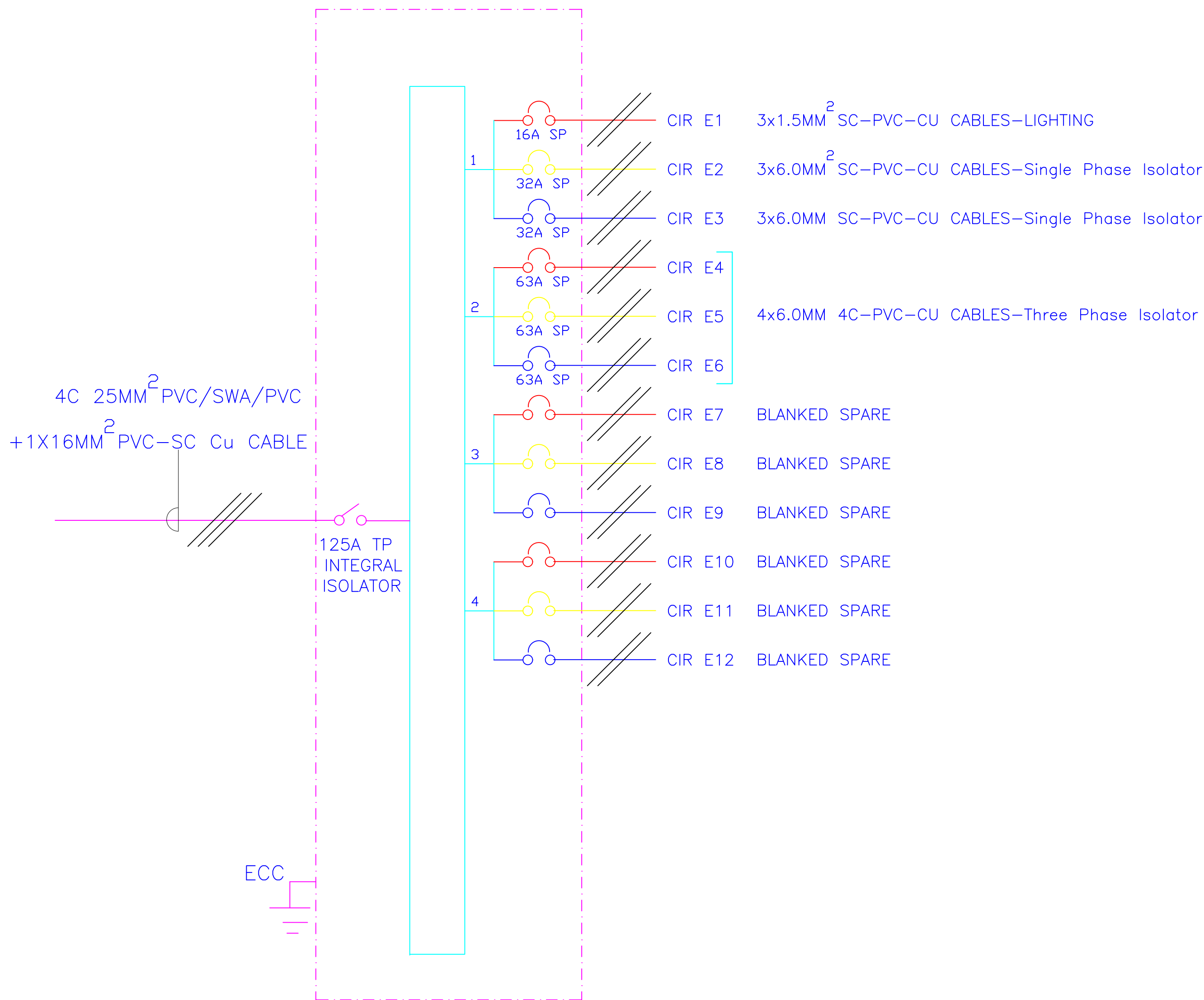
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DRAWING TITLE:

PUMP ROOM BLOCK FIRE
ALARM LAYOUT

Dwg. No.	09- 003E- 018		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:		Date:	
09		31.01.2024	





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



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH
LANDING- MUKOWE

CLIENT:

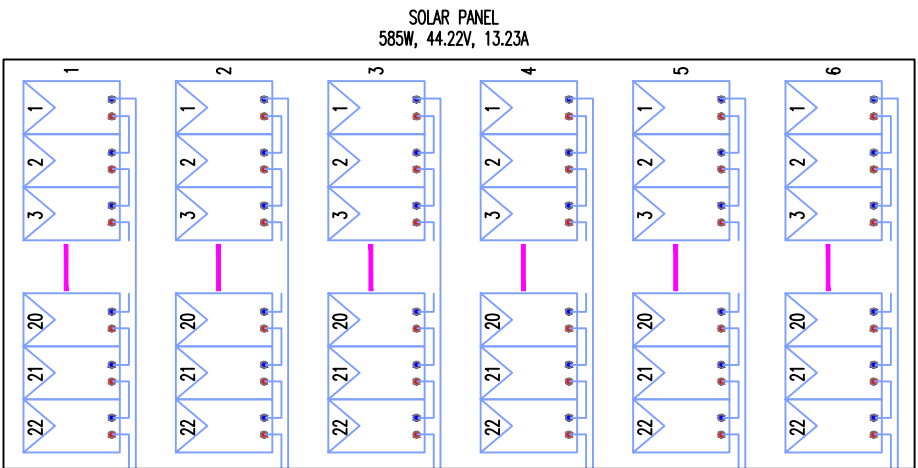
STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
PUMP ROOM BLOCK
SCHEMATIC LAYOUT

Dwg. No.	09- 003E- 019
Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
09	31.01.2024



10 STRING DC
COMBINER BOX 1

40KW INVERTER

25kWh Battery Pack

SOLAR PV POWER TO GRID SYNCHRONIZATION PANEL

MAIN POWER BOARD

POWER SYSTEM SOLAR SCHEMATIC

TENDER ISSUE

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF FISH
LANDING- MUKOWE

CLIENT:

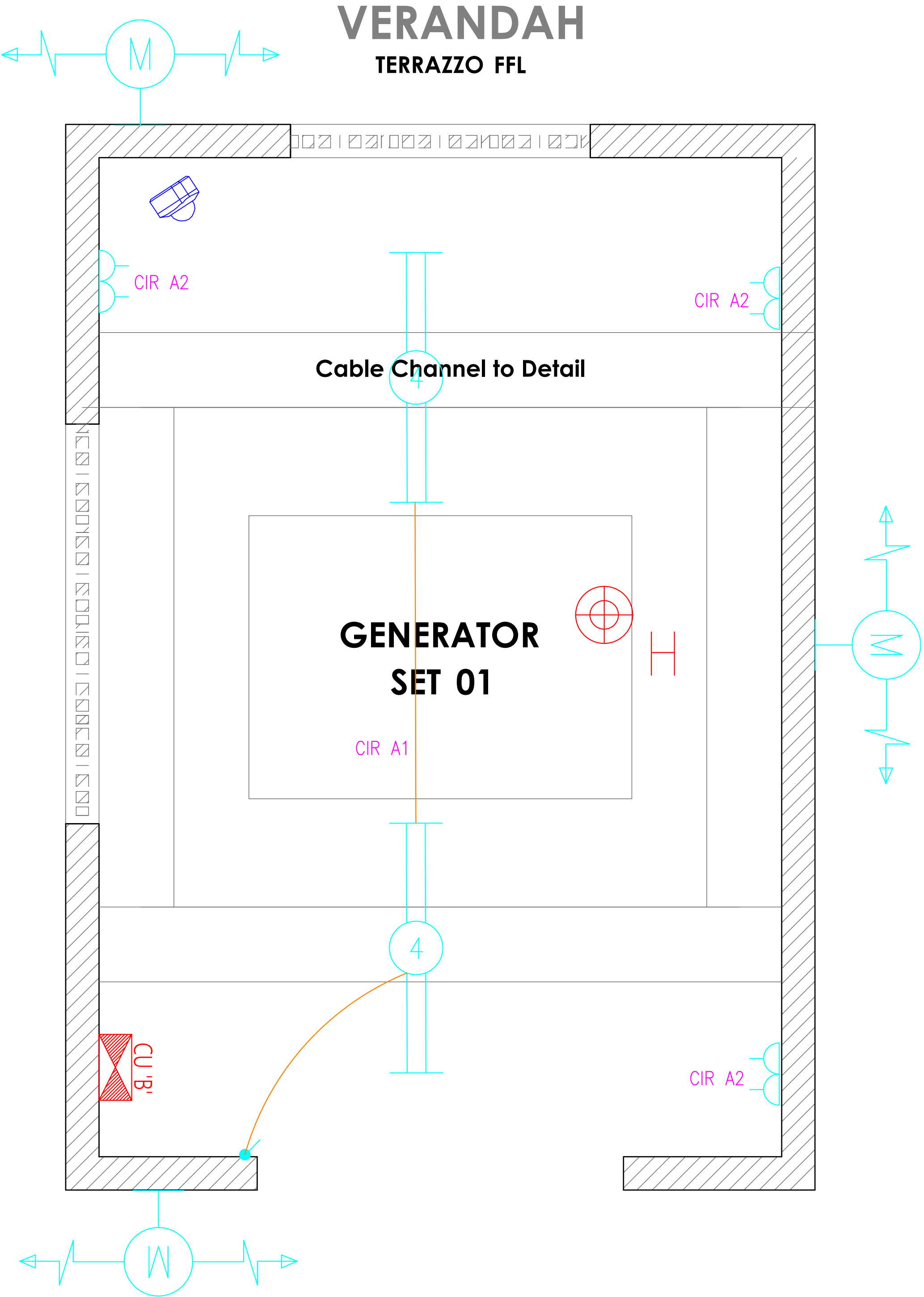
STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
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DRAWING TITLE:
**POWER SYSTEM SOLAR
SCHEMATIC**

Dwg. No.	09- 003E- 020		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:		Date:	
09		24.11.2023	



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REVISIONS:

REV. No.	Details of Revision
01	FIRE HYDRANT ADDED

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

STREET LIGHT DETAIL

Dwg. No.	09- 003E- 021
Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
09	31/01/2024



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REVISIONS:

REV. No.	Details of Revision
01	FIRE HYDRANT ADDED

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

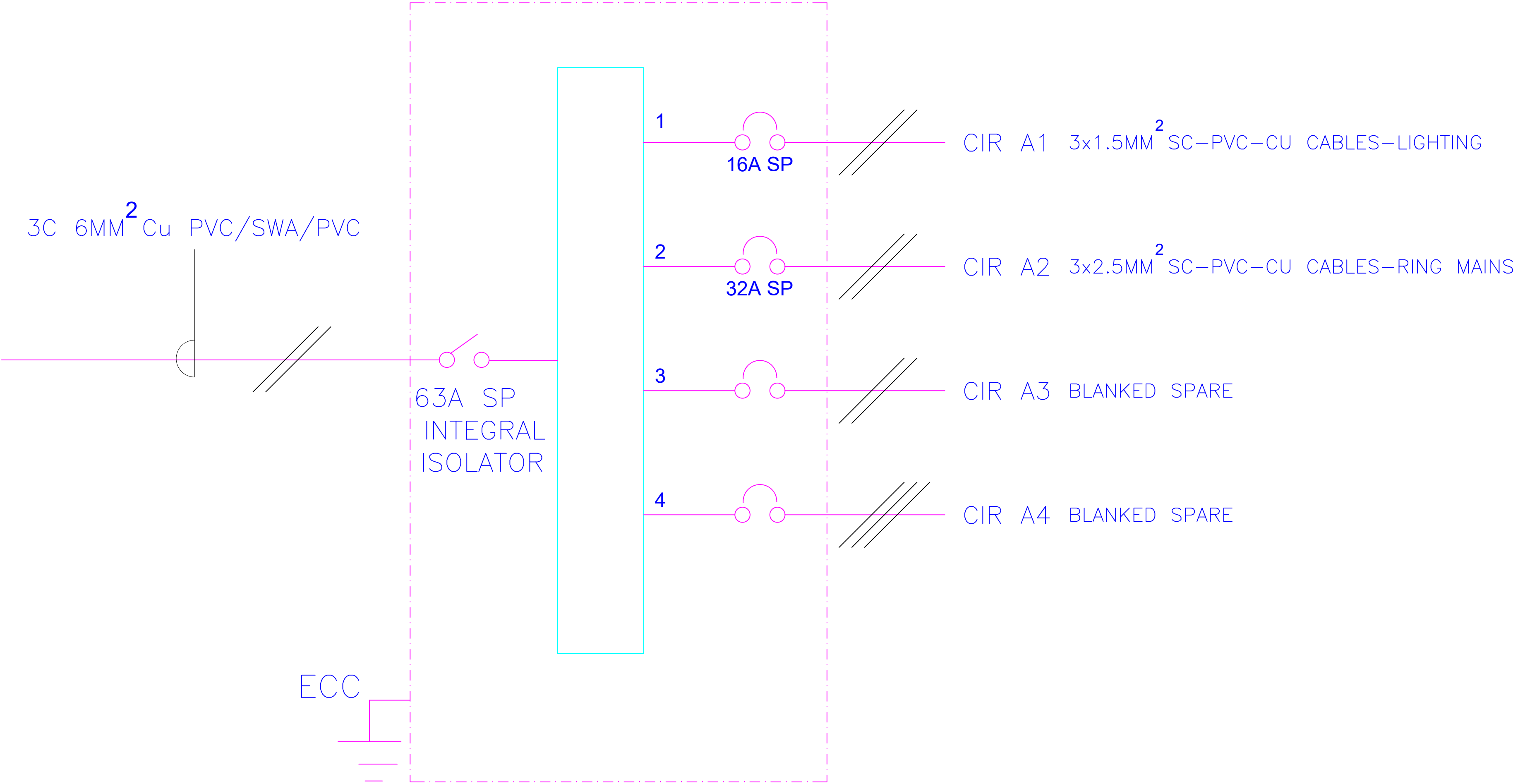
Sign:

DRAWING TITLE:

POWER HOUSE SCHEMATIC

Dwg. No.	09- 003E- 022
Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
09	31/01/2024

4- WAY 100A SPN CONSUMER UNIT 'A' FOR RAW POWER DISTRIBUTION



TENDER ISSUE

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REVISIONS:

REV. No.	Details of Revision
01	FIRE HYDRANT ADDED

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

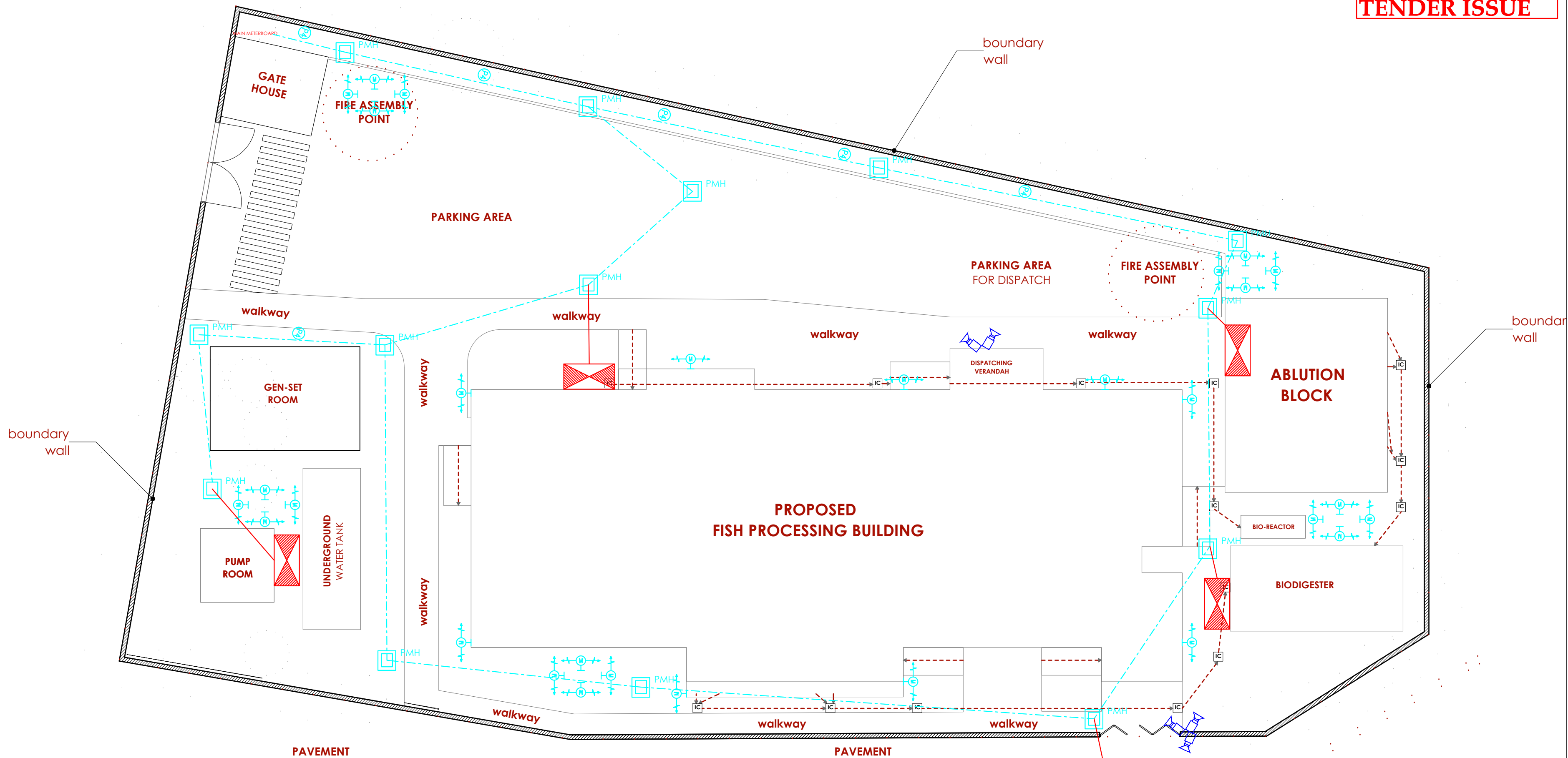
STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:
SITE PLAN ELECTRICAL
LAYOUT

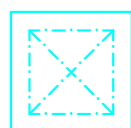
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Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
09	31/01/2024



LEGEND

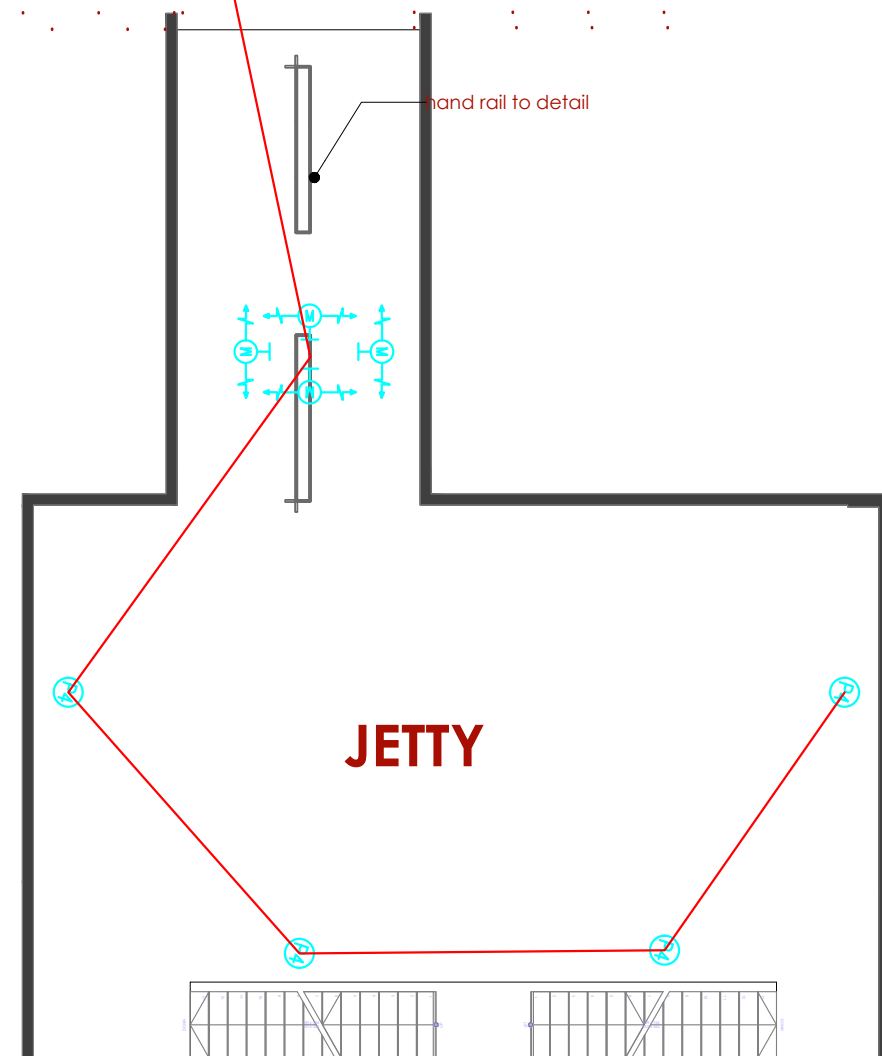
1 No. 150mm dia
HGPVC ducts in slab/ belowground

1 No. 50mm dia
HGPVC ducts in slab/ belowground



600X600X700mm Deep
Manhole

SITE PLAN
ELECTRICAL LAYOUT



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REVISIONS:

REV. No.	Details of Revision
01	FIRE HYDRANT ADDED

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

STREET LIGHT DETAIL

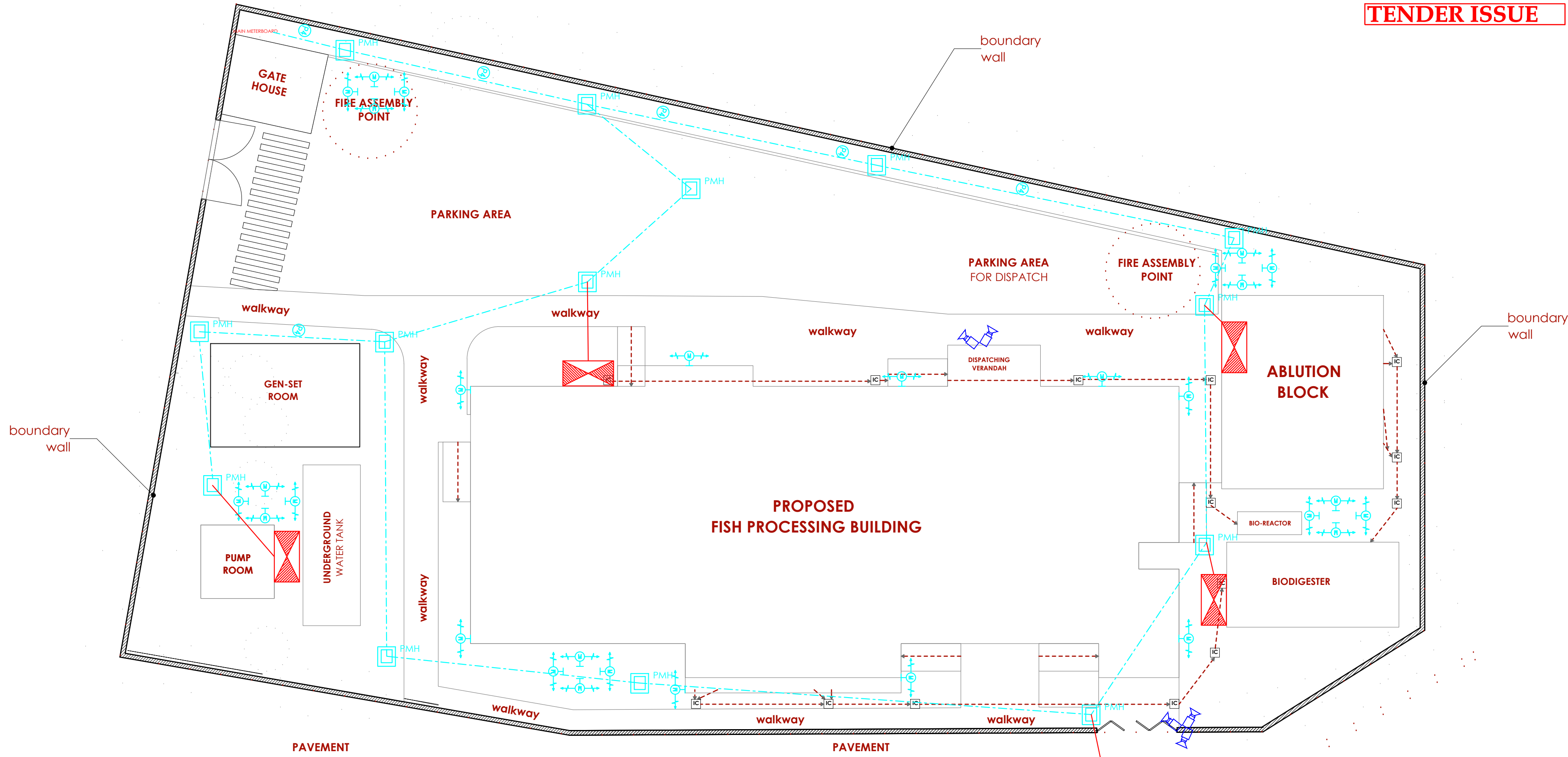
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Scale: NTS

Drawn by Chek'd By

Project no.: Date:

09 31/01/2024



LEGEND

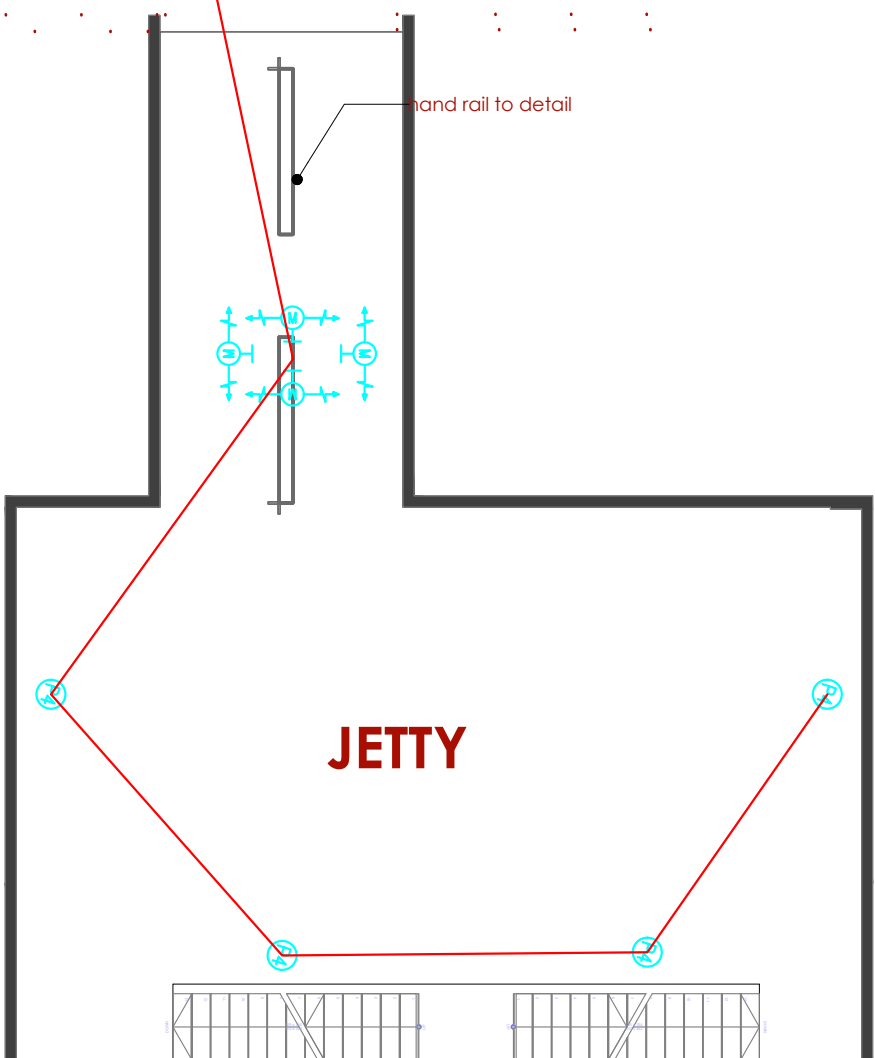
1 No. 150mm dia
HGPVC ducts in slab/ belowground

1 No. 50mm dia
HGPVC ducts in slab/ belowground



600X600X700mm Deep
Manhole

SITE PLAN
ELECTRICAL LAYOUT



DRAWING TITLE: PROPOSED CONSTRUCTION OF MUKOWE FISH LANDING SITE**DRAWING NUMBER: 09-003M- 001**

No.	DRAWING/ DOCUMENT TITLE	DRAWING NUMBER	DRAWING SHEET	DRAWING FORMAT	DOCUMENT STATUS
D	ELECTRICAL ENGINEERING DRAWINGS				
1	LIST OF DRAWINGS	09- 003M- 001	A3	PDF/ EXCEL	Provided
2	ABLUTION BLOCK GROUND FLOOR WATER SUPPLY	09- 003M- 002	A3	PDF/ DWG	Provided
3	ABLUTION BLOCK FIRST FLOOR WATER SUPPLY	09- 003M- 003	A3	PDF/ DWG	Provided
4	FISH BANDA GROUND FLOOR WATER SUPPLY	09- 003M- 004	A3	PDF/ DWG	Provided
5	FISH BANDA FIRST FLOOR WATER SUPPLY	09- 003M- 005	A3	PDF/ DWG	Provided
6	SITE PLAN WATER RETICULATION LAYOUT	09- 003M- 006	A3	PDF/ DWG	Provided
7	ABLUTION BLOCK GROUND FLOOR DRAINAGE	09- 003M- 007	A3	PDF/ DWG	Provided
8	FISH BANDA GROUND FLOOR DRAINAGE	09- 003M- 008	A3	PDF/ DWG	Provided
9	ABLUTION BLOCK GROUND FLOOR STORM WATER DRAINAGE	09- 003M- 009	A3	PDF/ DWG	Provided
10	ABLUTION BLOCK FRIST FLOOR STORM WATER DRAINAGE	09- 003M- 010	A3	PDF/ DWG	Provided
11	FISH BANDA GROUND FLOOR STORM WATER DRAINAGE	09- 003M- 011	A3	PDF/ DWG	Provided
12	FISH BANDA FIRST FLOOR STORM WATER DRAINAGE	09- 003M- 012	A3	PDF/ DWG	Provided
13	GATE HOUSE DRAINAGE	09- 003M- 013	A3	PDF/ DWG	Provided
14	GATE HOUSE PLUMBING	09- 003M- 014	A3	PDF/ DWG	Provided
15	POWER HOUSE & PUMP ROOM DRAINAGE	09- 003M- 015	A3	PDF/ DWG	Provided



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
**ABLUTION BLOCK GROUND
FLOOR WATER
SUPPLY**

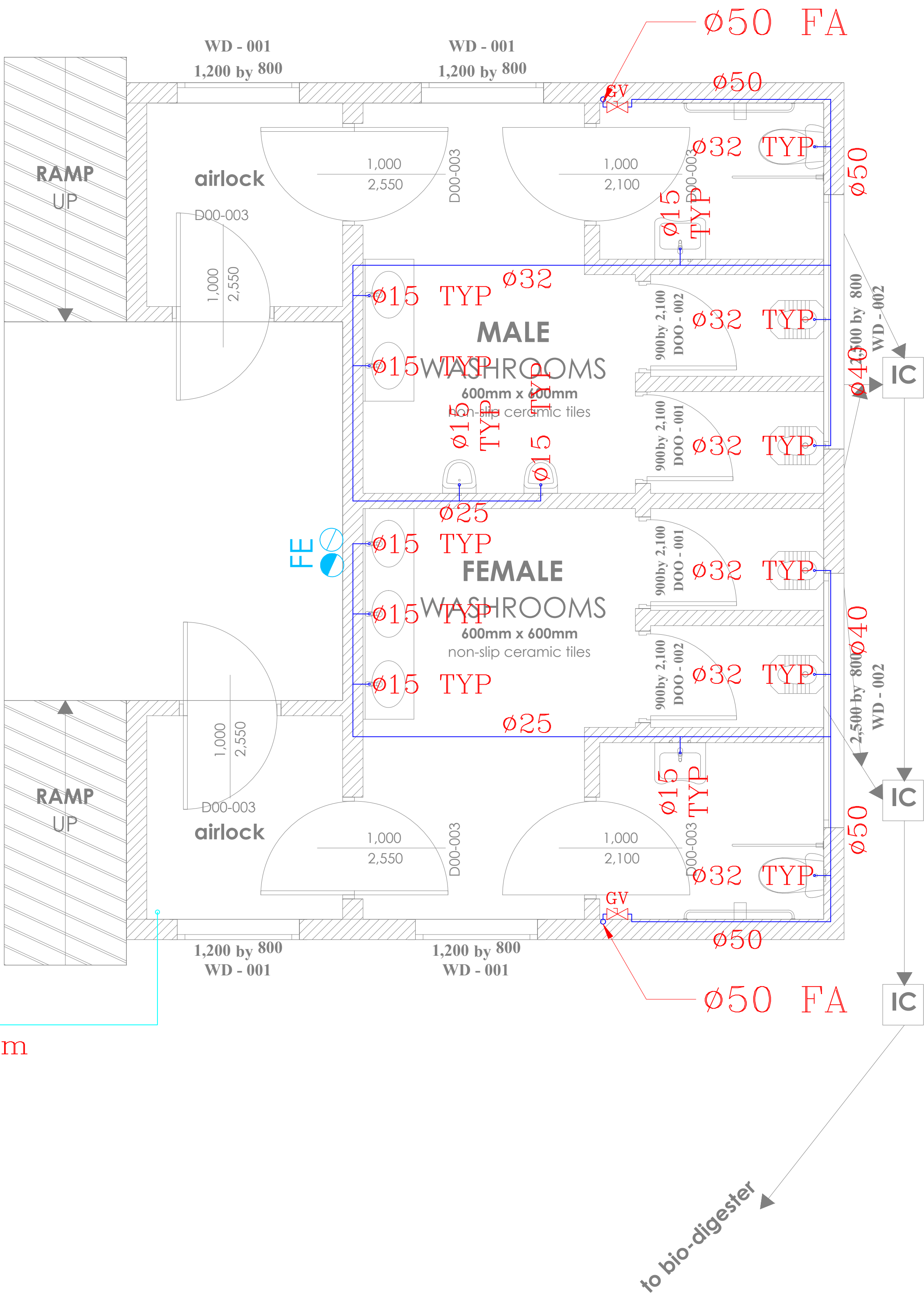
Dwg. No. **09-003M-002**

Scale: NTS

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

Project no.: Date:

09 14.01.2024



LEGEND

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

ø40 Rising Main from
Underground tank



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

**ABLUTION BLOCK FIRST
FLOOR WATER
SUPPLY**

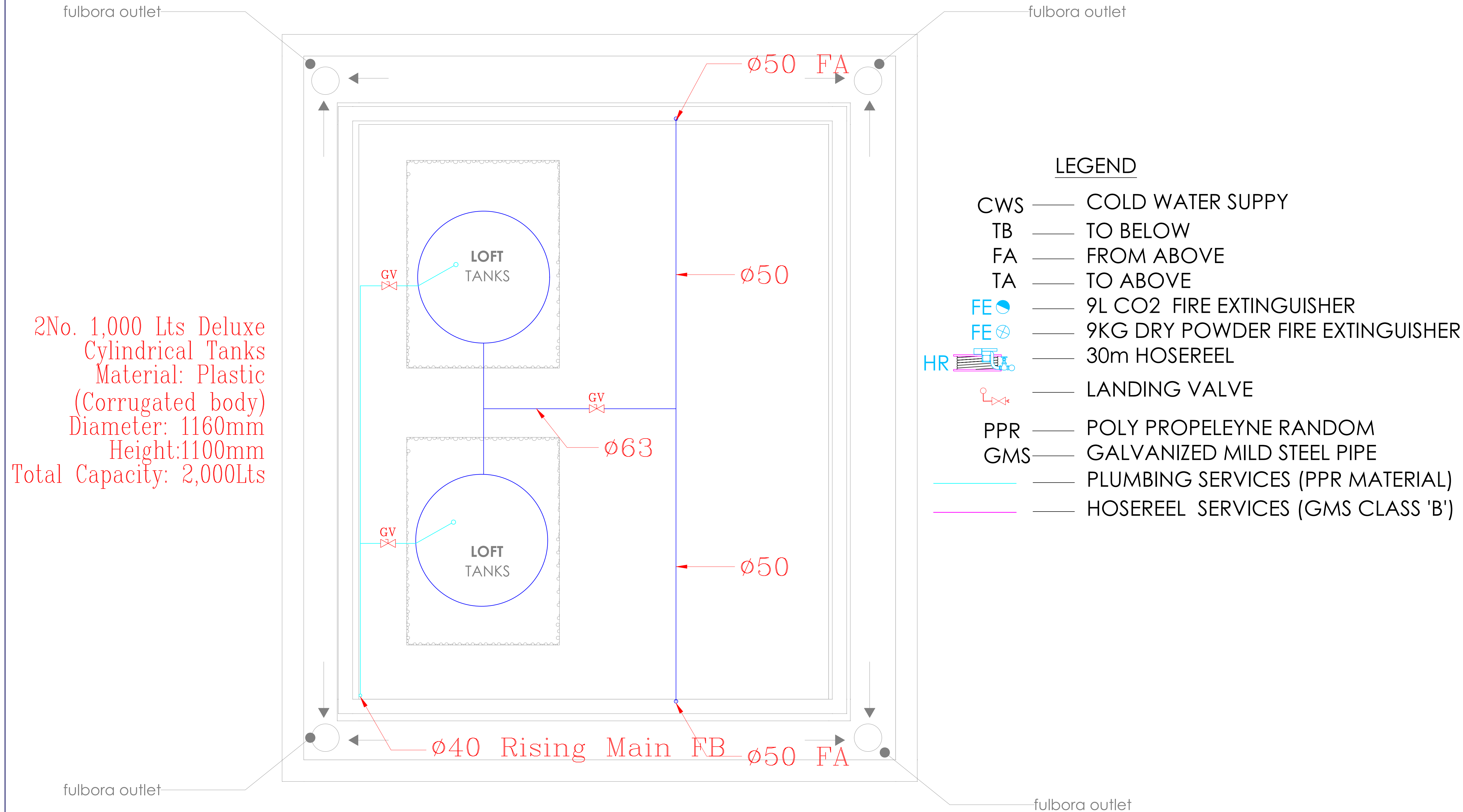
Dwg. No. **09-003M-003**

Scale: NTS

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

Project no.: Date:

09 14.01.2024





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NAIROBI. KENYA.

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REVISIONS:

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PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
**FISH BANDA GROUND
FLOOR WATER
SUPPLY**

Dwg. No. **09-003M-004**

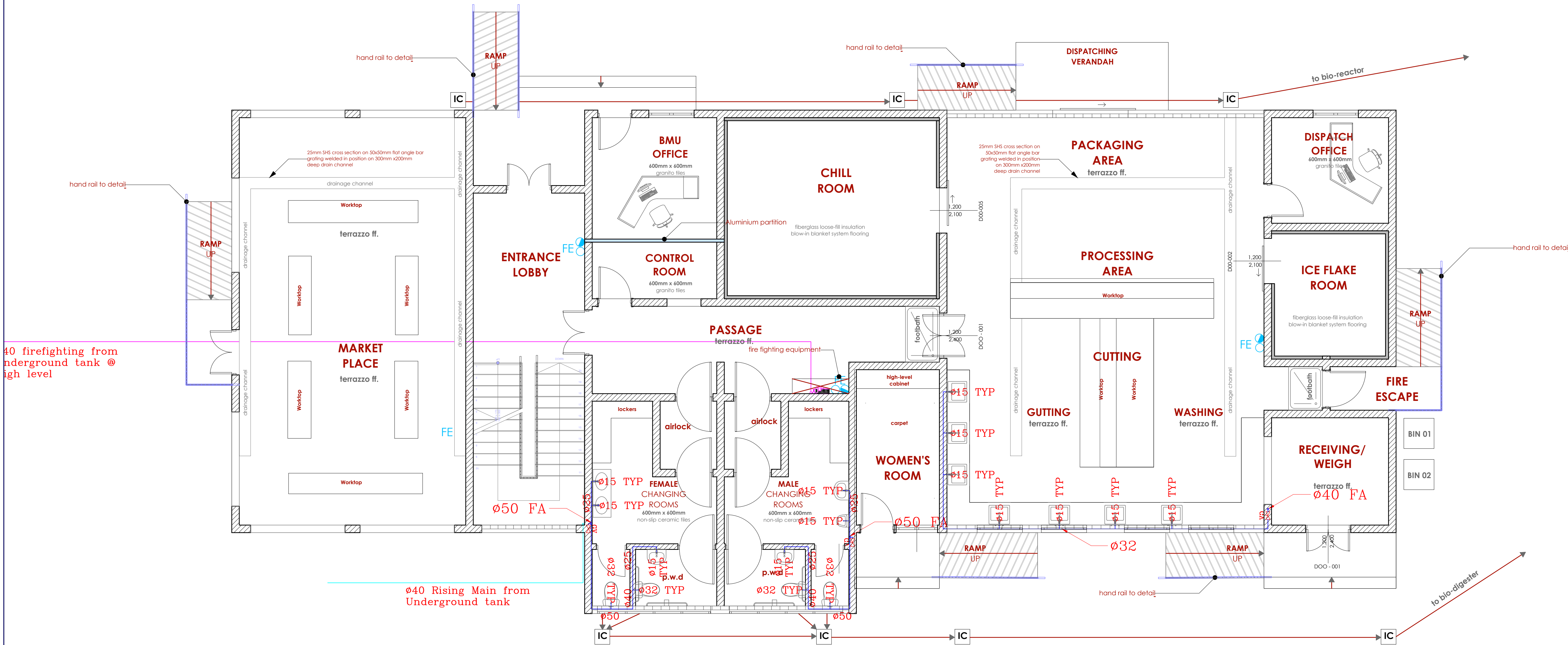
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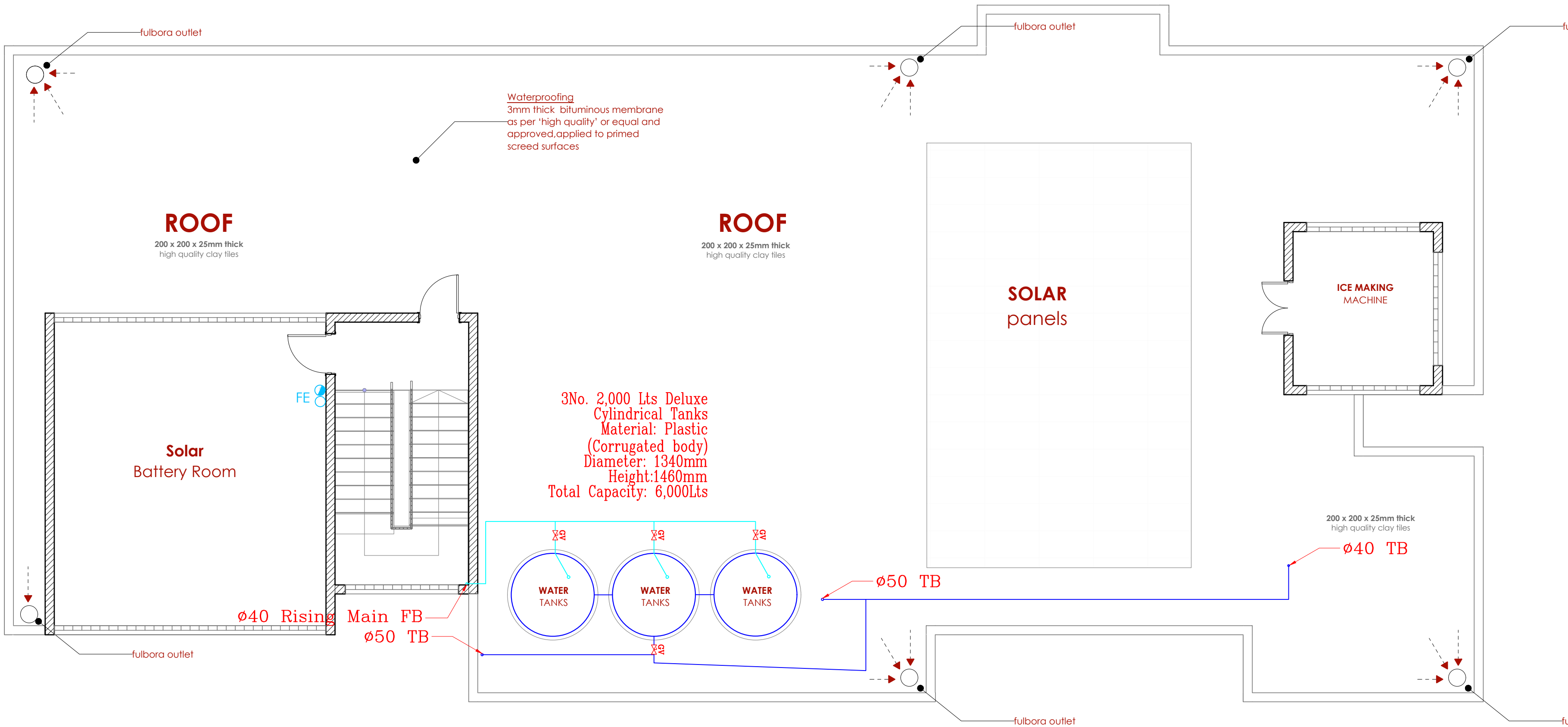
Drawn by **E.M.** Chek'd By **G.O.**

Project no.: Date:
09 14.01.2024

LEGEND

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





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

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

REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
-------	--

DRAWING TITLE:

FISH BANDA FIRST FLOOR
WATER SUPPLY

Dwg. No. 09- 003M- 005

Scale: NTS

Drawn by Chek'd By

Project no.: 09 Date: 10.01.2024

TENDER ISSUE

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REVISIONS:

REV. No.	Details of Revision
01	FIRE HYDRANT ADDED

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

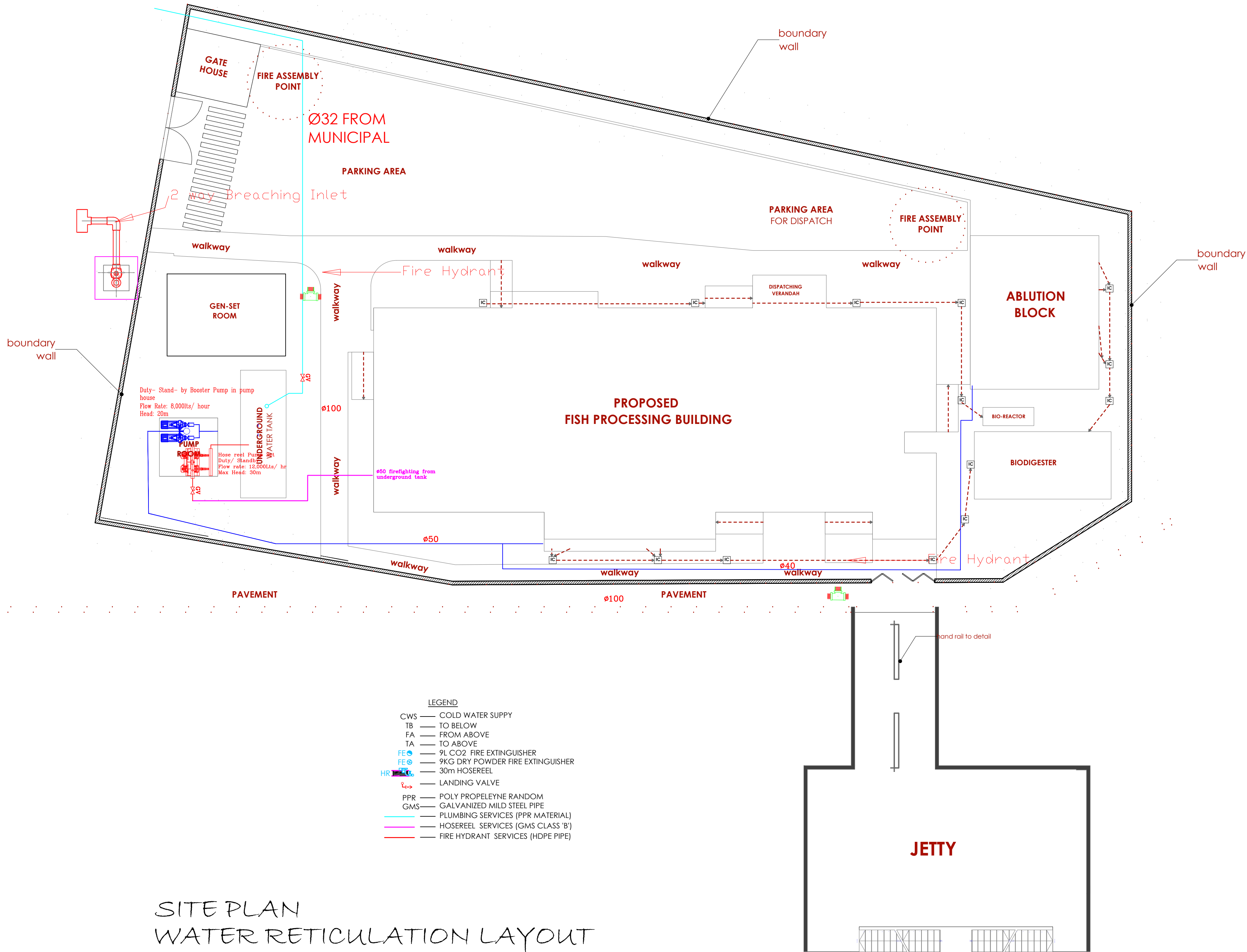
CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:

SITE PLAN WATER
RETICULATION LAYOUT

Dwg. No.	09- 003M- 006
Scale:	NTS
Drawn by	Chek'd By
Project no.:	Date:
09	05/02/2024



SITE PLAN
WATER RETICULATION LAYOUT



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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

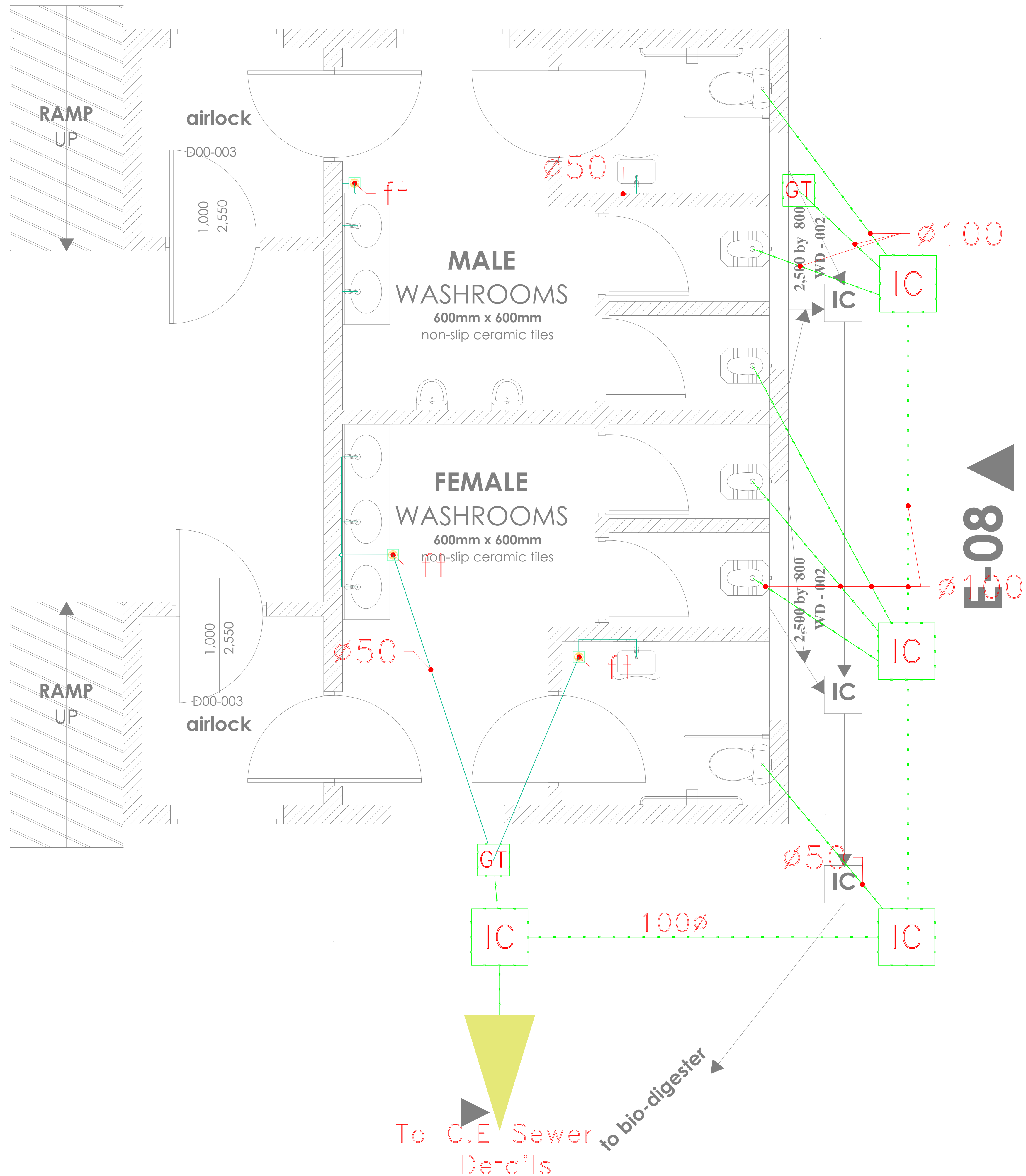
ABLUTION BLOCK GROUND
FLOOR DRAIAGE

Dwg. No. **09-003M-007**

Scale: NTS

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

Project no.: Date:





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
FISH BANDA GROUND
FLOOR DRAINAGE

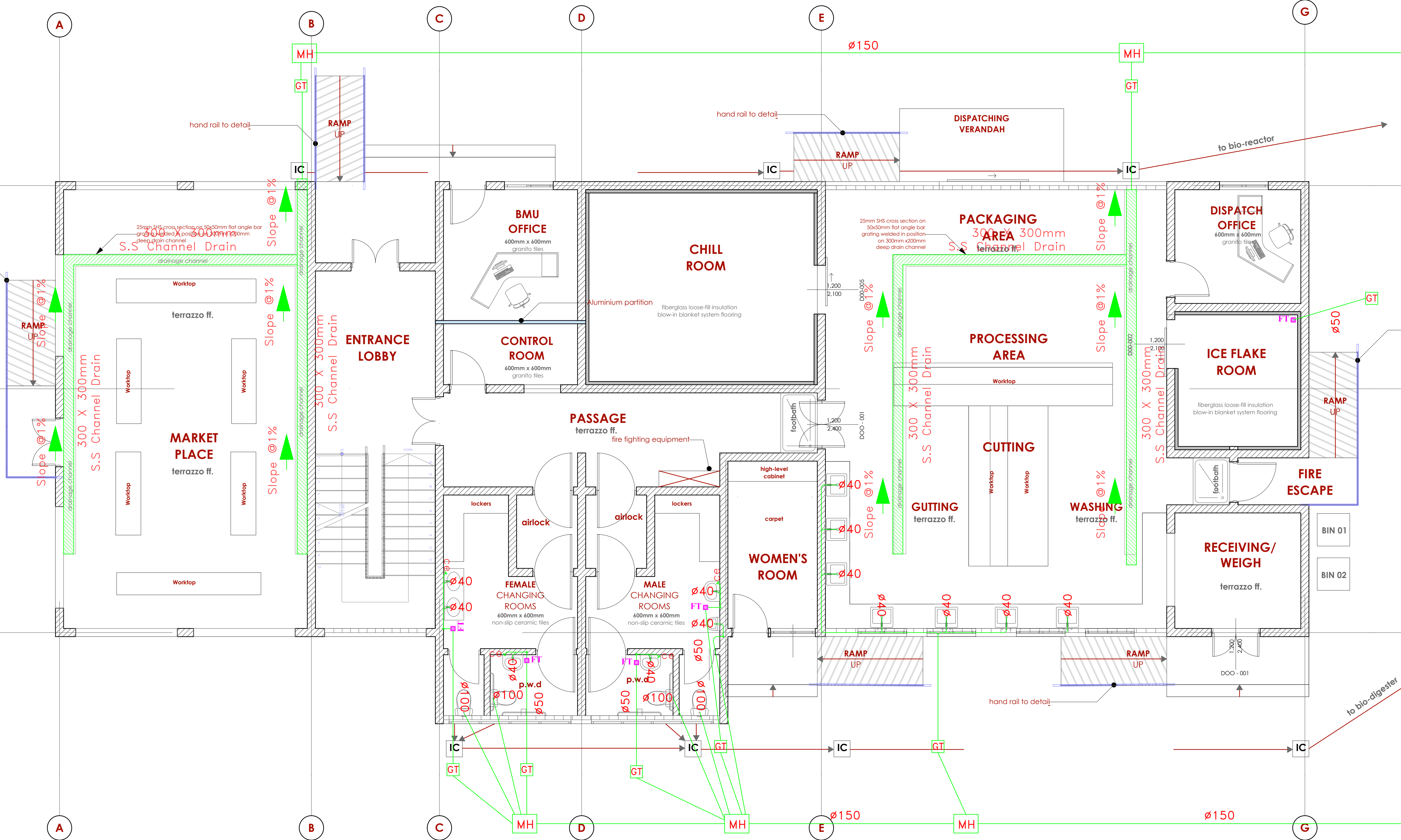
Dwg. No. **09-003M-008**

Scale: NTS

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

Project no.: Date:

09 14.01.2024





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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
**ABLUTION BLOCK GROUND
FLOOR STORM WATER
DRAINAGE**

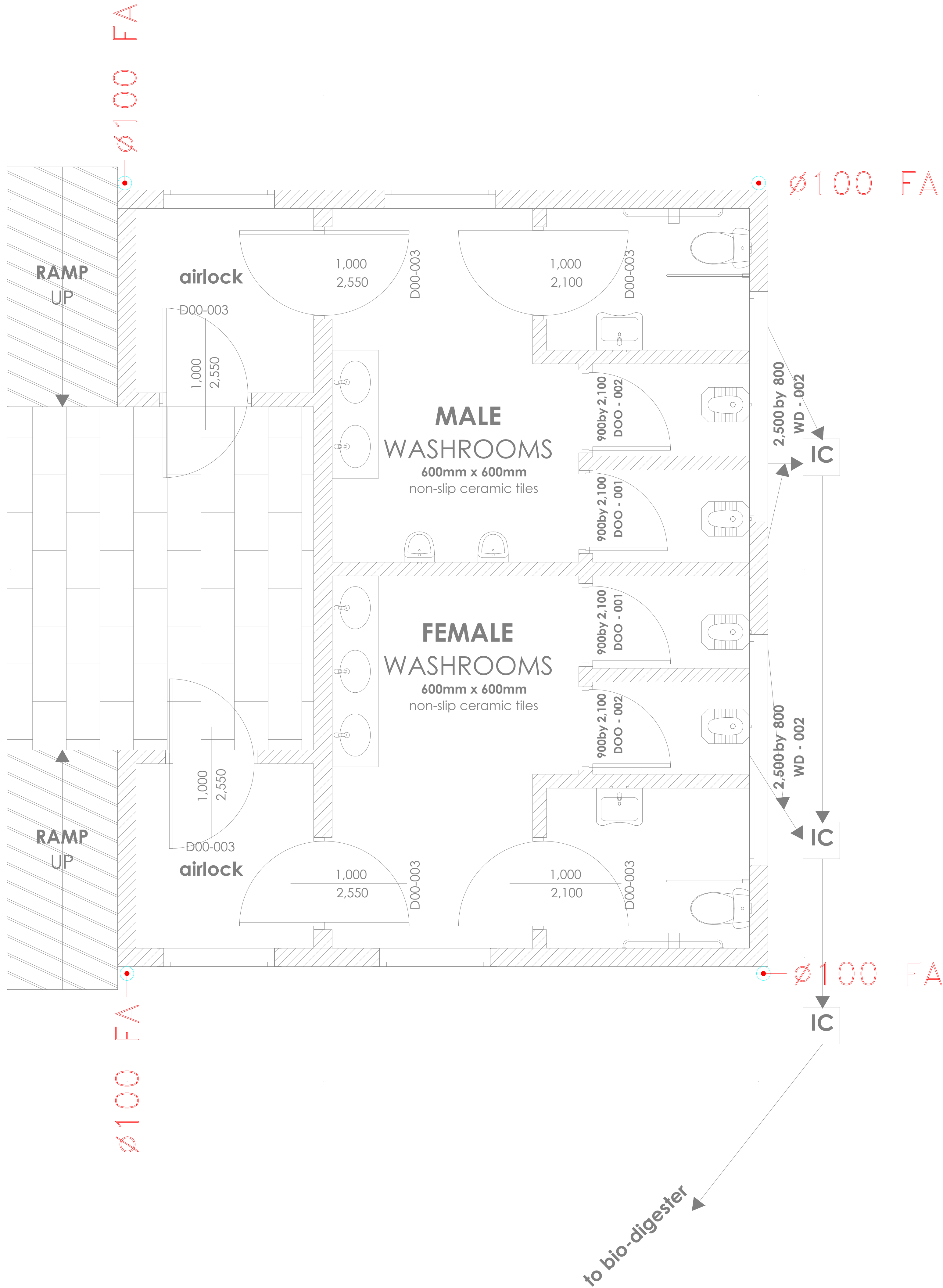
Dwg. No. **09-003M-009**

Scale: NTS

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

Project no.: Date:

09 14.01.2024



fulbora outlet

fulbora outlet

Ø100 TB

Ø100 TB

LOFT
TANKS

LOFT
TANKS

E-08

Ø100 TB

Ø100 TB

fulbora outlet

fulbora outlet

DETAILED DESIGN

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
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DRAWING TITLE:

ABLUTION BLOCK FIRST
FLOOR STORM WATER
DRAINAGE

Dwg. No.	09-003M-010
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Scale:	NTS
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Drawn by	E.M.	Chek'd By	G.O.
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Project no.:	Date:
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09	14.01.2024
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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
RESOURCE CENTER & RELATED
INFRASTRUCTURE- MUKOWE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:
FISH BANDA GROUND
FLOOR STORM WATER
DRAINAGE

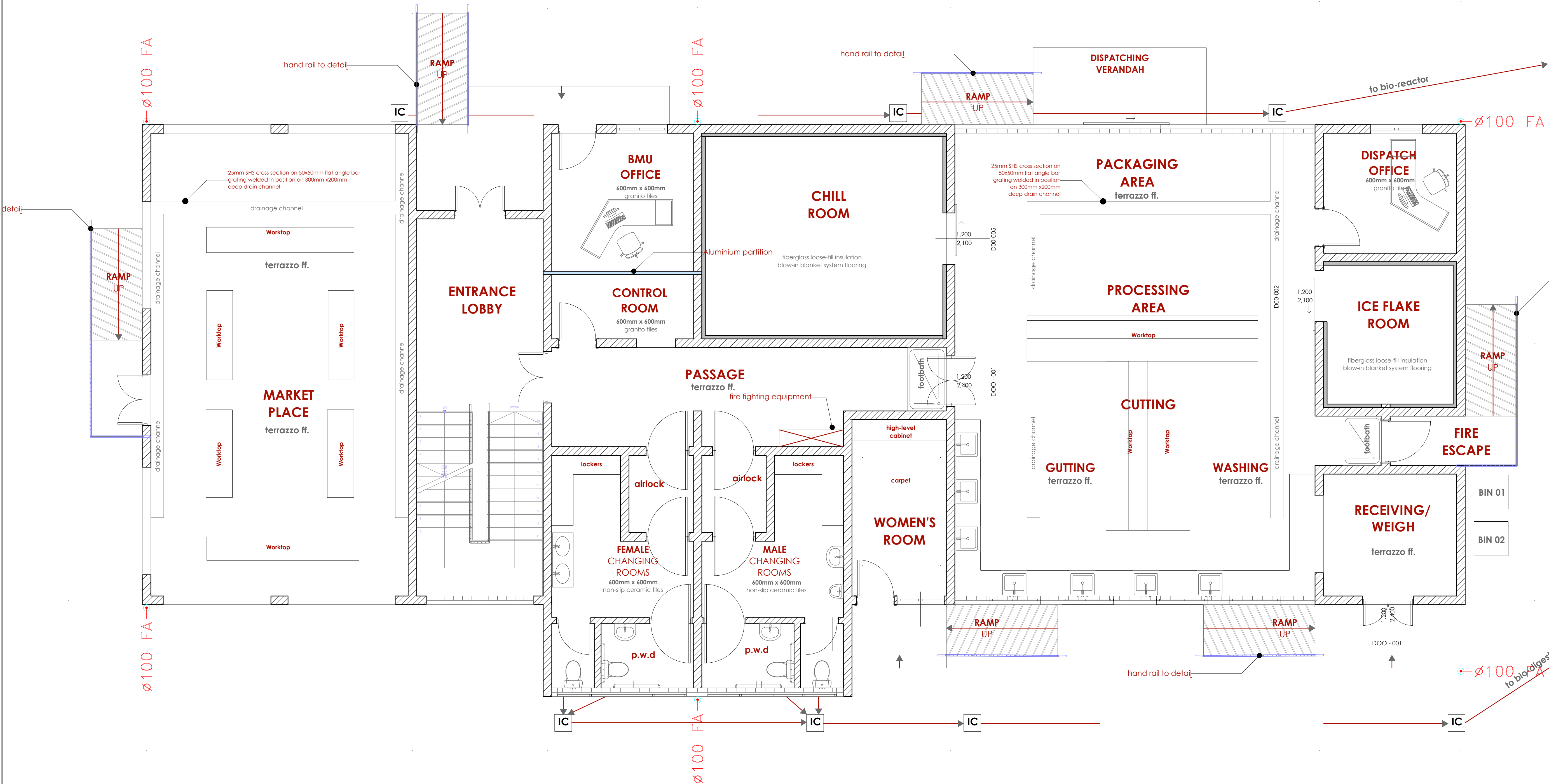
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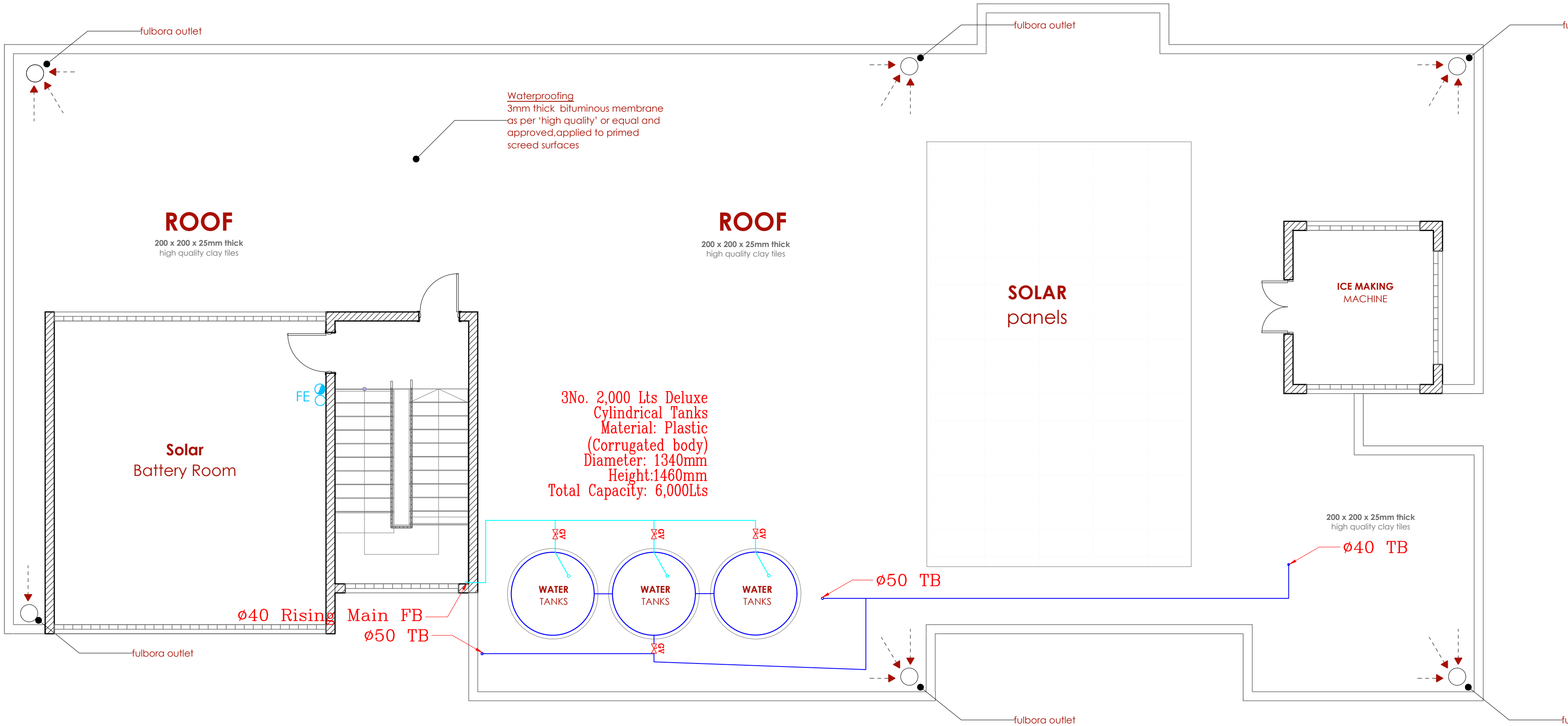
Scale: NTS

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

Project no.: Date:

09 14.01.2024





LEGEND

- CWS

—

COLD WATER SUPPLY
- TB

—

TO BELOW
- FA

—

FROM ABOVE
- TA

—

TO ABOVE
- FE

●

—

9L CO2 FIRE EXTINGUISHER
- FE

⊗

—

9KG DRY POWDER FIRE EXTINGUISHER
- HR

⊞

—

30m HOSEREEL
- ⌵

—

LANDING VALVE
- PPR

—

POLY PROPELEYNE RANDOM
- GMS

—

GALVANIZED MILD STEEL PIPE
- PLUMBING SERVICES (PPR MATERIAL)
- HOSEREEL SERVICES (GMS CLASS 'B')

TENDER ISSUE

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:	
-------	--

DRAWING TITLE:

FISH BANDA FIRST FLOOR
STORM WATER DRAINAGE

Dwg. No.	09- 003M- 012		
Scale:	NTS		
Drawn by		Chek'd By	
Project no.:		Date:	
09		10.01.2024	

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

GATE HOUSE DRAINAGE
LAYOUT

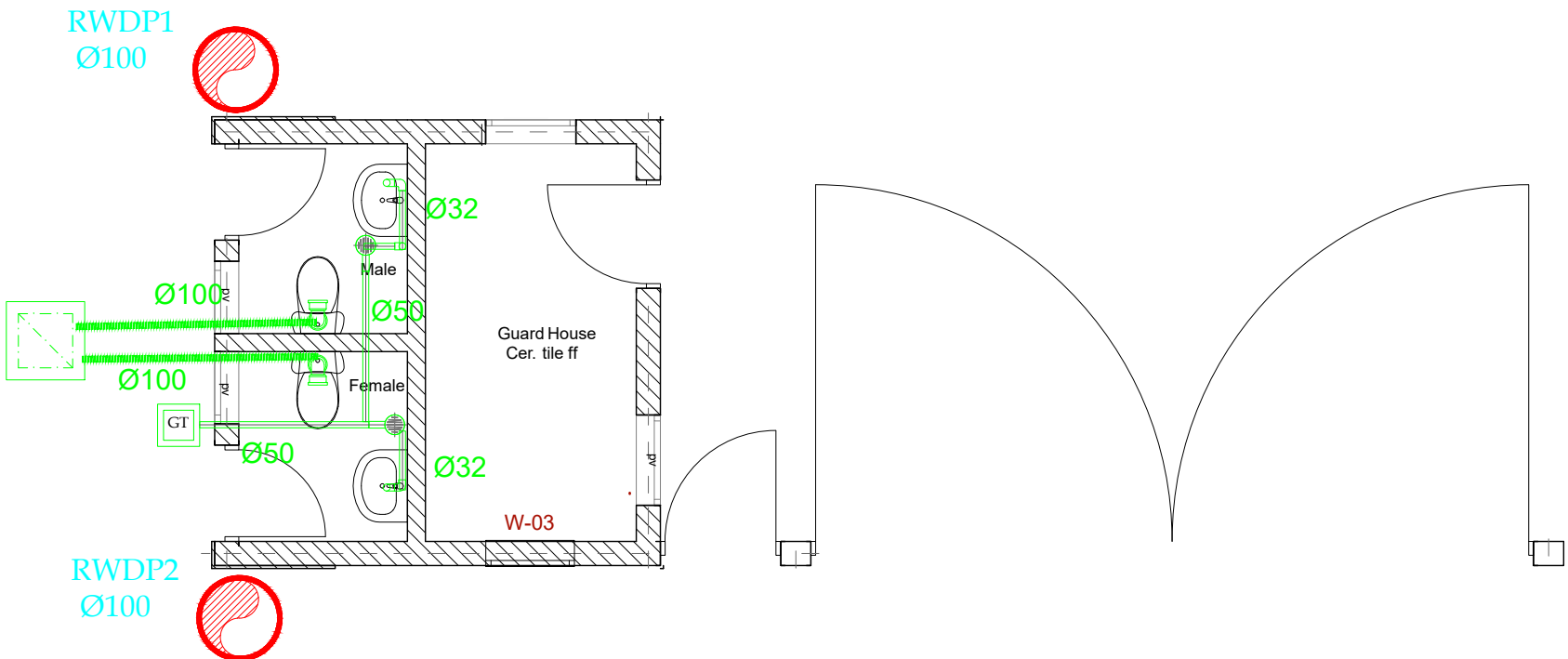
Dwg. No. 09- 003M- 13

Scale: NTS

Drawn by Chek'd By

Project no.: Date:

09 29.12.2023



LEGEND

WVP — WASTE VENT PIPE

SVP — SOIL VENT PIPE

I.S — INSIDE SLAB PIPING

S — SURFACE PIPING

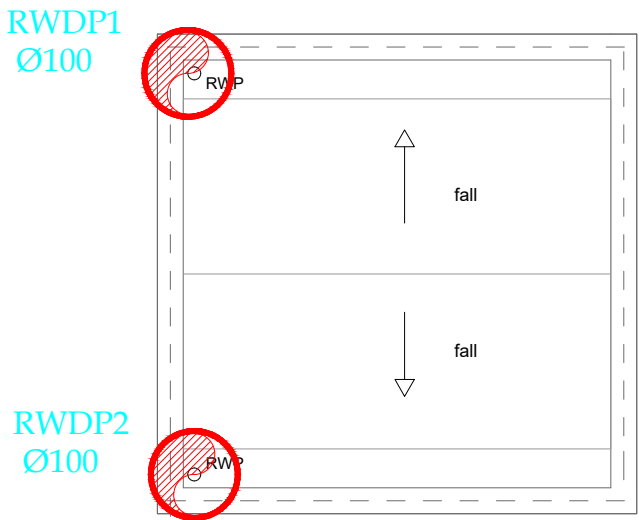
TB — TO BELOW

FA — FROM ABOVE

RWDP X Ø100 — RAIN WATER DOWN PIPE

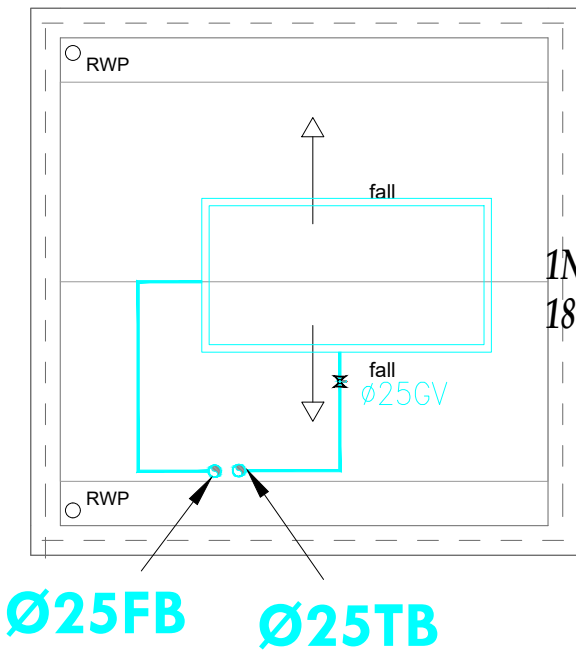
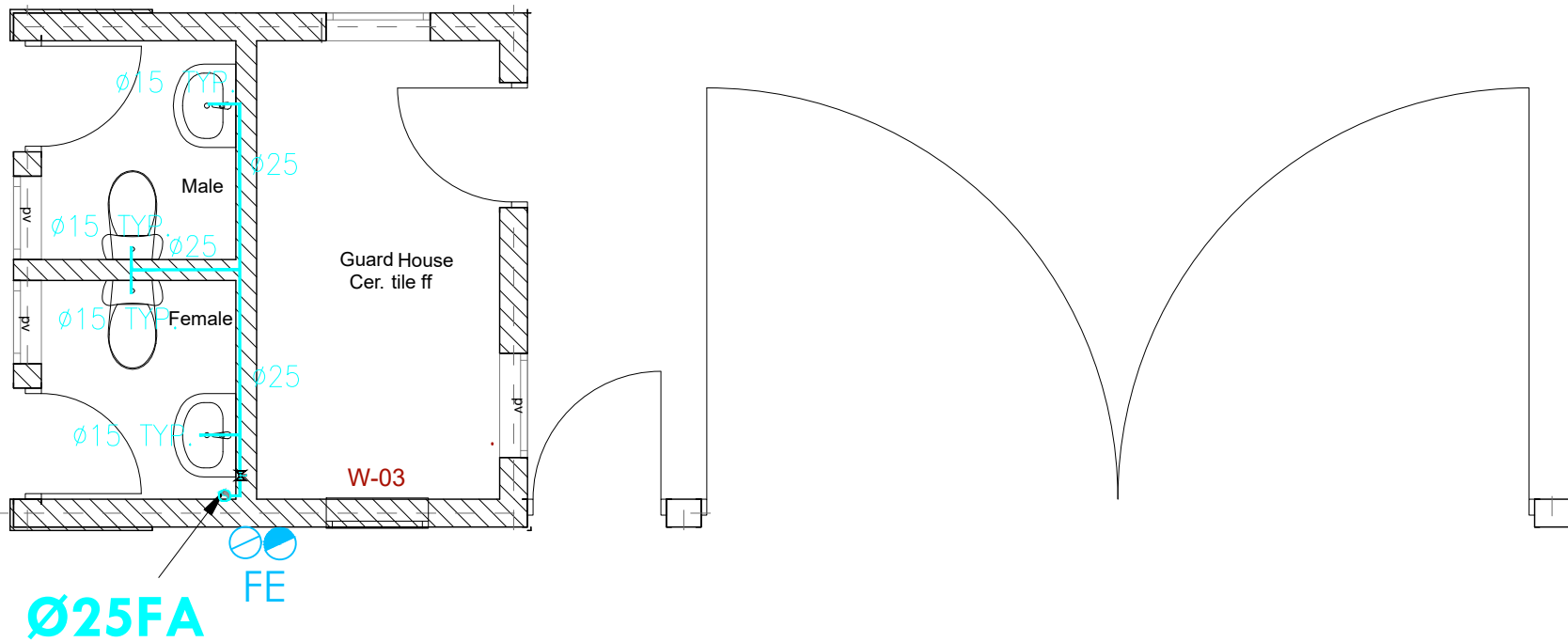
— DRAINAGE SERVICES (uPVC GREY PIPE)

GT — 4" GULLY TRAP



DRAINAGE

TENDER ISSUE



1 No. 1,000 Lt Rectangular Loft Tank
1860mm X 940mm X 650mm

PLUMBING

LEGEND

CWS	—	COLD WATER SUPPLY
TB	—	TO BELOW
FA	—	FROM ABOVE
TA	—	TO ABOVE
FE	—	9L WATER CO FIRE EXTINGUISHER
FE	—	9KG DRY POWDER FIRE EXTINGUISHER
HR	—	30m HOSEREEL
	—	LANDING VALVE
PPR	—	POLY PROPELEYNE RANDOM
GMS	—	GALVANIZED STEEL PIPE (CLASS B)
	—	PLUMBING SERVICES (PPR PN 20 MATERIAL)
	—	HOSEREEL SERVICES (GMS CLASS 'B')

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REVISIONS:

REV. No.	Details of Revision

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign: _____

DRAWING TITLE:

GATE HOUSE PLUMBING

Dwg. No. **09- 003M- 14**

Scale: NTS

Drawn by _____ Chek'd By _____

Project no.: _____ Date: _____

09 18.01.2024

TENDER ISSUE

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7. THIS DRAWING SHOULD ONLY BE USED FOR THE SPECIFIC SERVICES INTENDED.
8. THIS DRAWING SHOWS THE DESIGN INTENT ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FULL CO-ORDINATION OF THE SERVICES INDICATED ON THIS AND ALL OTHER SERVICES DRAWINGS.
9. FINAL ACCESS AND 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

PROJECT TITLE:

PROPOSED CONSTRUCTION OF
MUKOWE FISH LANDING SITE

CLIENT:

STATE DEPARTMENT FOR FISHERIES,
AQUACULTURE & THE BLUE
ECONOMY

CLIENT'S SIGNATURE:

Sign:

DRAWING TITLE:

**POWER HOUSE & PUMP
ROOMS MECHANICAL
LAYOUT**

Dwg. No. **09- 003M- 015**

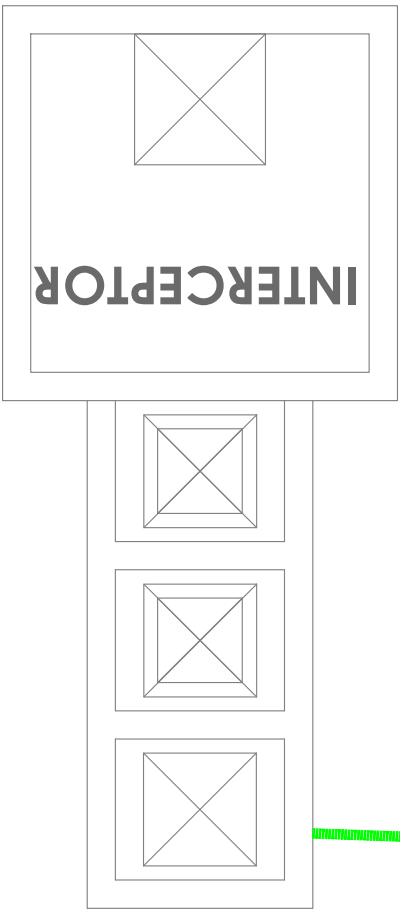
Scale: NTS

Drawn by Chek'd By

Project no.: Date:

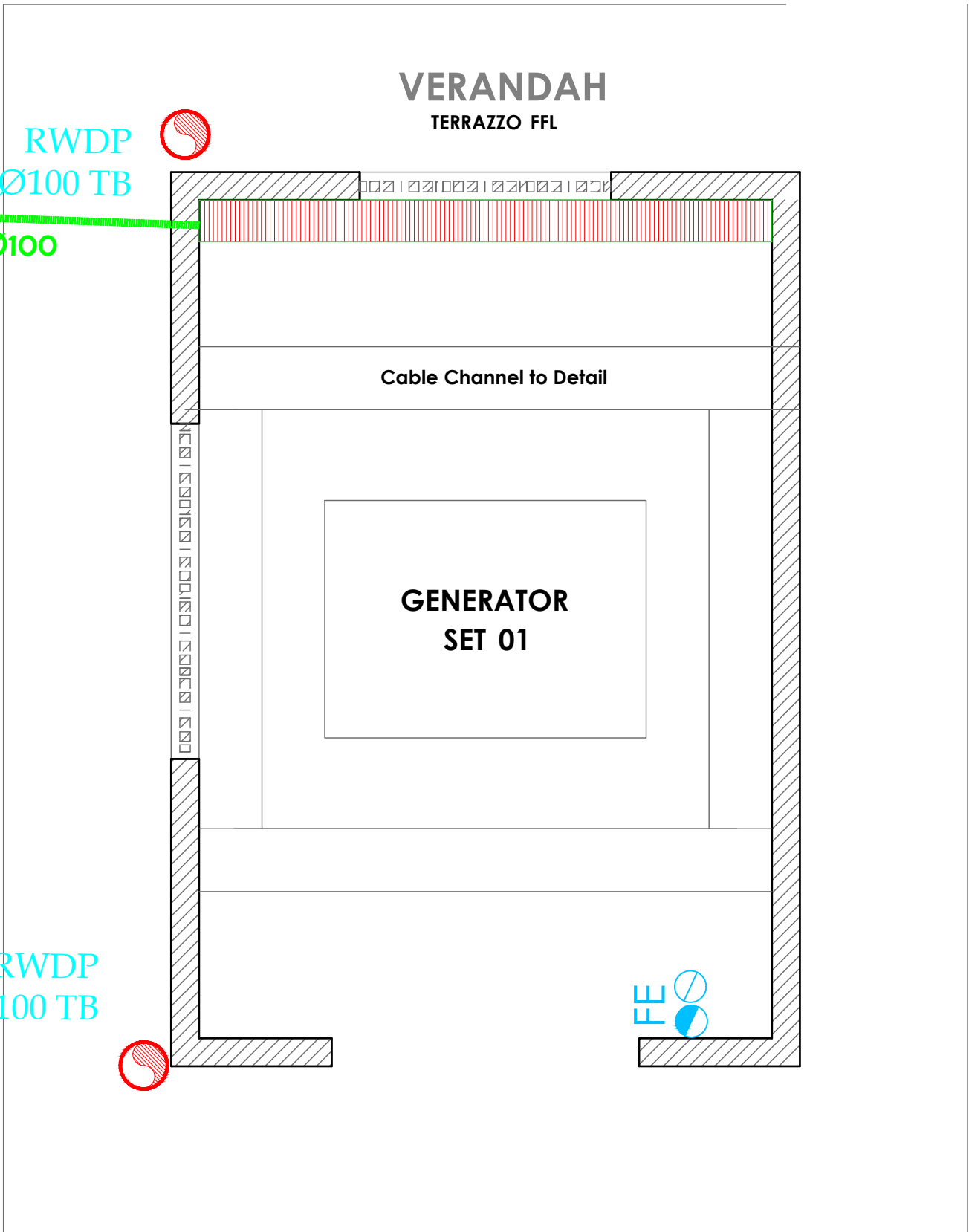
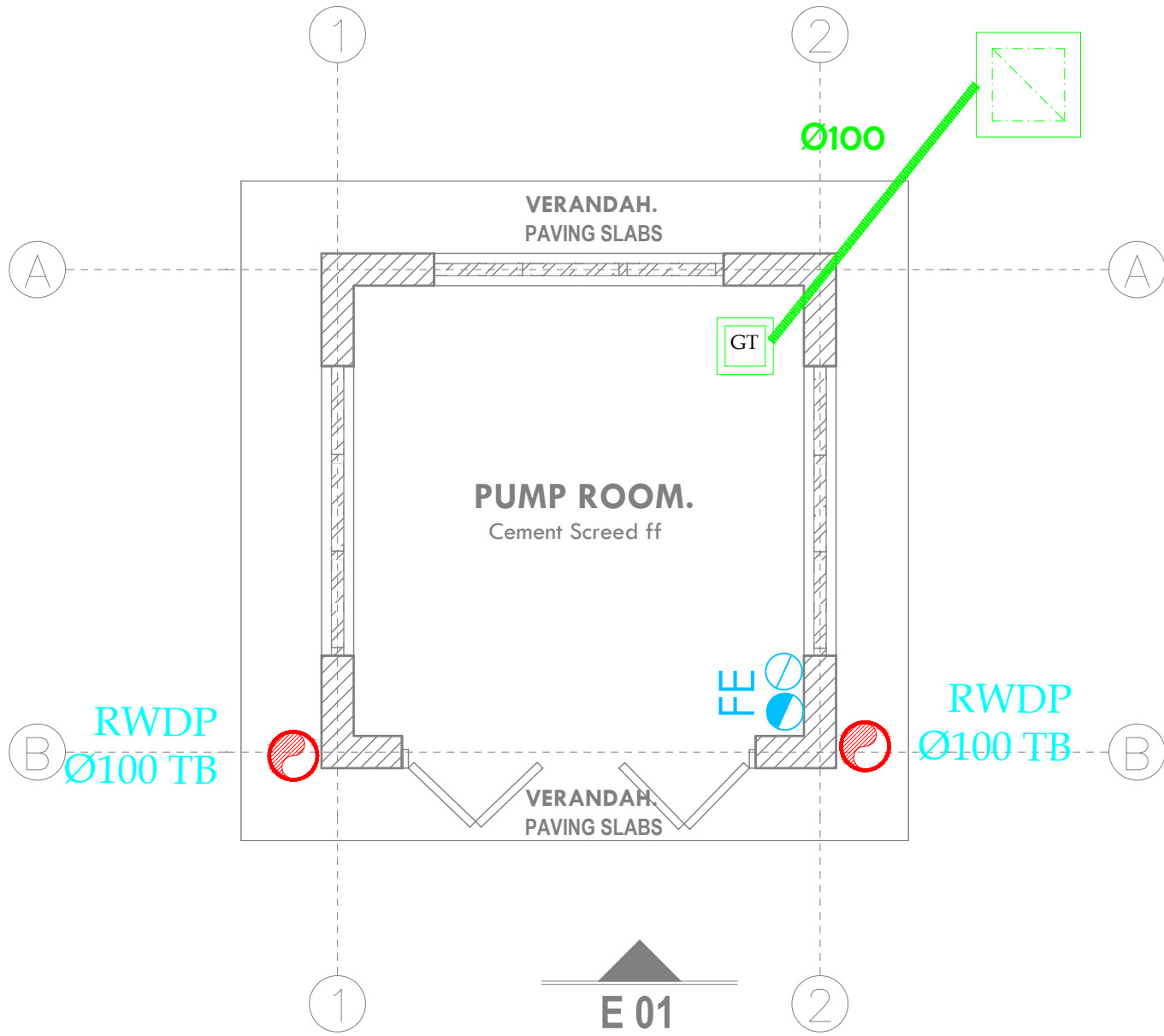
09 29.01.2024

Petrol interceptor
to C.E. Detail



RWDP
Ø100 TB
Ø100

RWDP
Ø100 TB



PUMP ROOM & POWER HOUSE
MECHANICAL LAYOUTS