

LEGEND	
SYMBOL	DESCRIPTION
	400KVA POWER TRANSFORMER 400V 50HZ
	WIND TURBINE
	540W SOLAR PANEL
	INDOOR LIGHTING
	50W LED WALL MOUNTED OUTDOOR LIGHTING
	13A 240V/50Hz +E POWER SOCKET OUTLET
	10A TWO GANGS - ONE WAY LIGHTING SWITCH.
	10A THREE GANGS - ONE WAY LIGHTING SWITCH.
	CIRCUIT BREAKER
	SUB-DISTRIBUTION BOARD
	EARTHING PIT
	EARTHING BUSBAR

International Organisation for Migration (IOM)

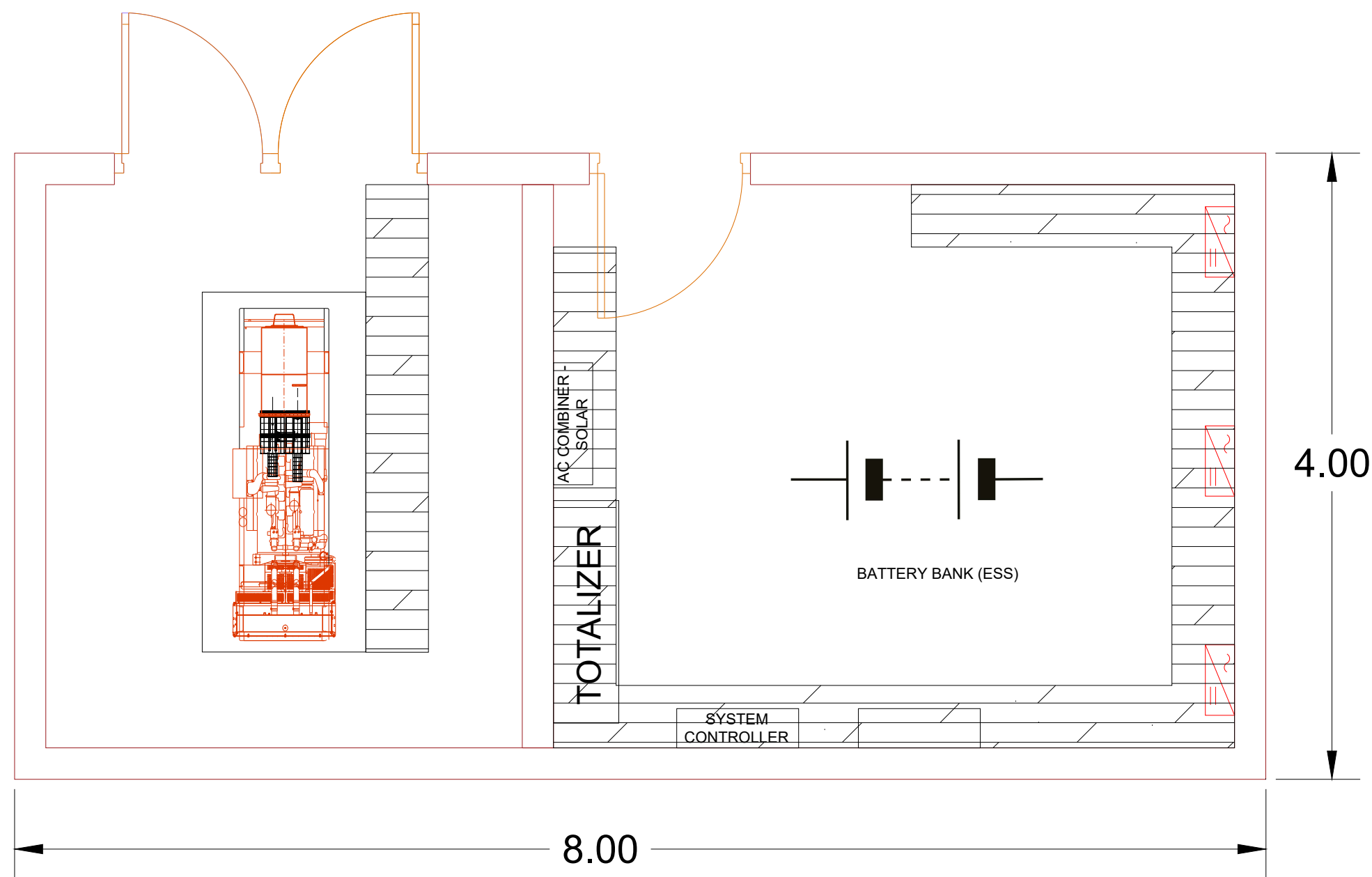
Project: Solar PV Microgrid for Beergadiid Region

Location: Beergadiid Somalia

Drawing Title: CABLE TRENCH DETAILS

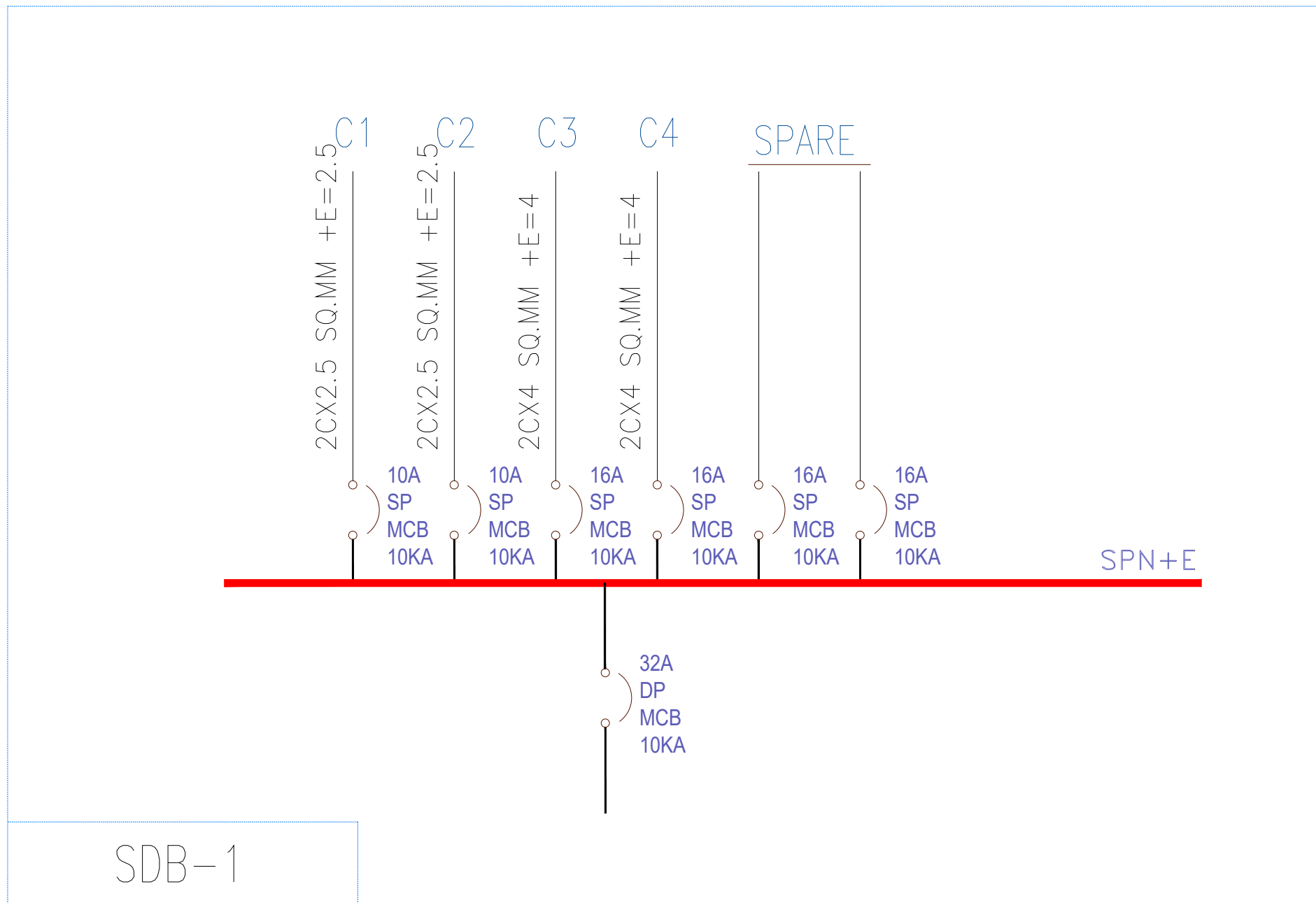
Date: 6 June 2024 Drawing Type: ELECTRICAL

Paper Size: A3 Drawing No. 1



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<i>International Organization for Migration (IOM)</i>			
Project: <b>Microgrid System in Beergadiid</b>			
Location: <i>Beergadiid , Somalia</i>			
Drawing Title: <b>CONTROL ROOM LAYOUT</b>			
Date	6 June 2024	Drawing Type	<b>ELECTRICAL</b>
Paper Size	A3	Drawing No.	<b>2</b>



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	SUB-DISTRIBUTION BOARD
	EARTHING PIT
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International Organization for Migration (IOM)

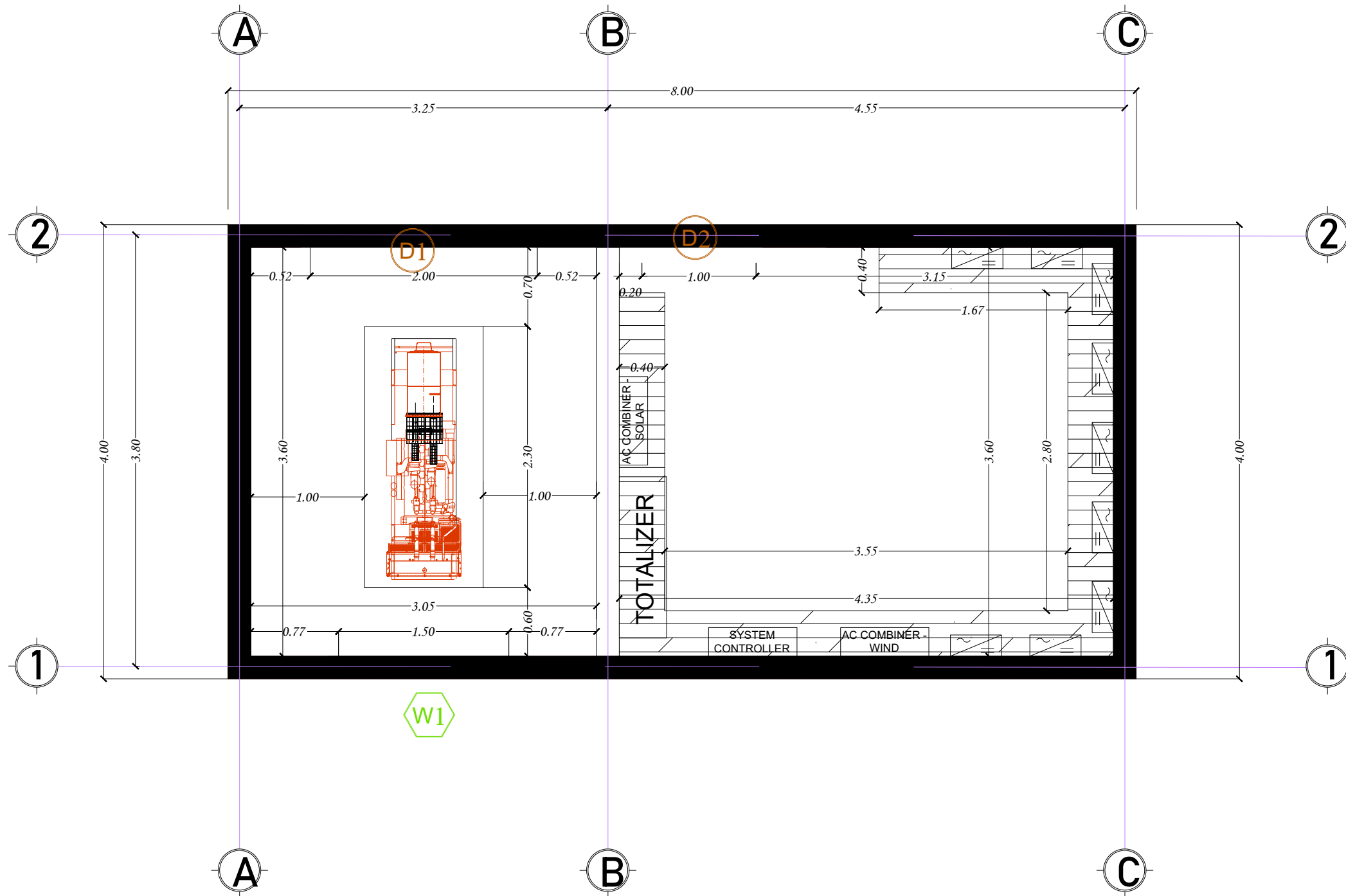
Project: **Microgrid in Beergadiid**

Location: *Beergadiid Somalia*

Drawing Title: **CONTROL ROOM DISTRIBUTION BOARD DETAILS**

Date: 6 June 2024      Drawing Type: **ELECTRICAL**

Paper Size: A3      Drawing No. **3**



Schedule of Windows

Symbol	Specification	Width	High	Sill	Number
W1	Steel Louver Window	1.50m	1.50m	0.80 m	1

Schedule of Doors

Symbol	Specification	Width	High	Number
D1	Steel Louver Door Detail 1	2.00m	2.50m	1
D2	Steel Door Detail 2	1.00m	2.20m	1

International Organization for Migration (IOM)

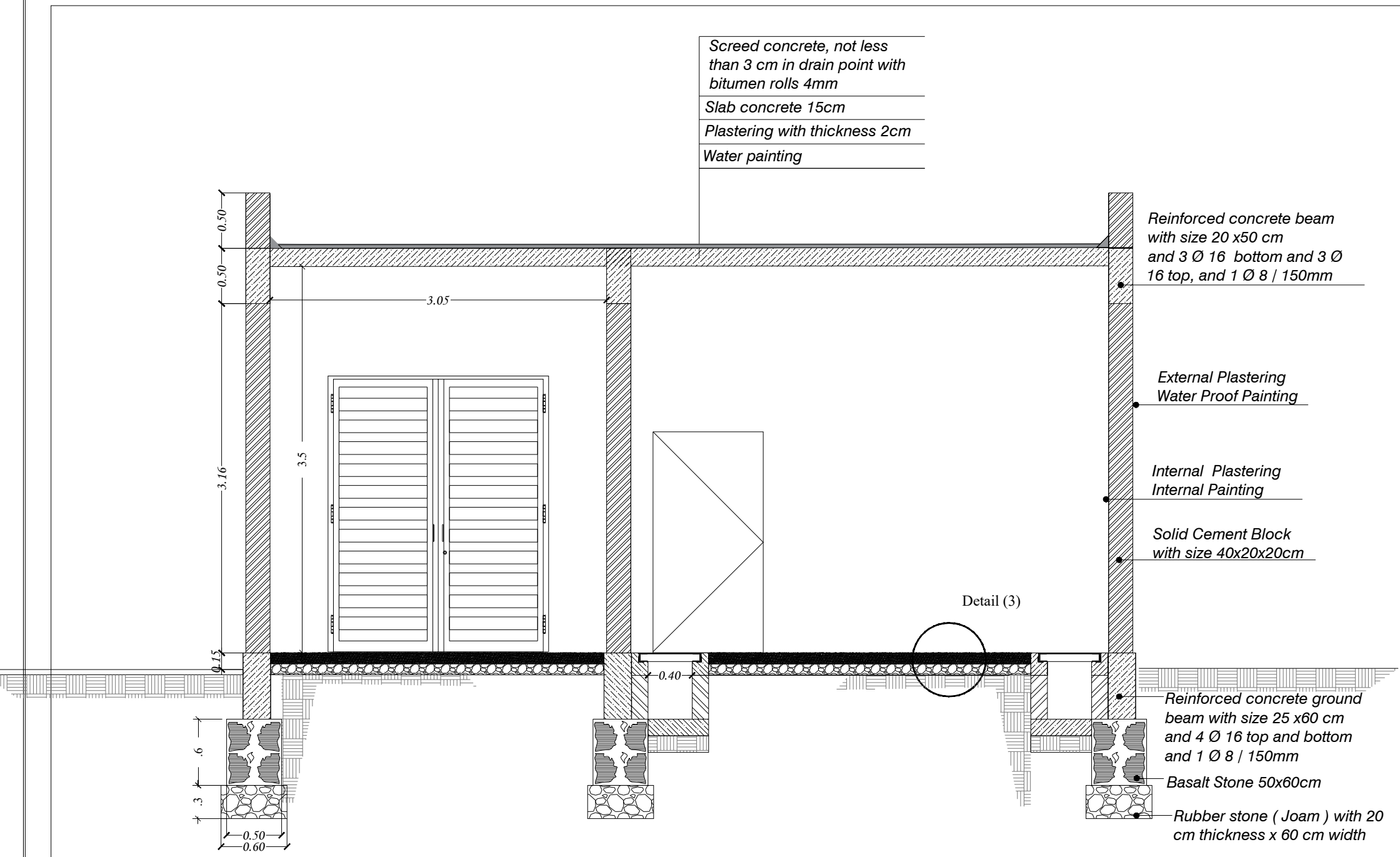
Project: Microgrid in Beergadiid

Location: Beergadiid , Somalia

Drawing Title: CONTROL ROOM DOOR & WINDOWS SCHEDULES

Date: 6 June 2024 Drawing Type: STRUCTURAL

Paper Size: A3 Drawing No. 1



Screed concrete, not less than 3 cm in drain point with bitumen rolls 4mm  
 Slab concrete 15cm  
 Plastering with thickness 2cm  
 Water painting

Reinforced concrete beam with size 20 x50 cm and 3 Ø 16 bottom and 3 Ø 16 top, and 1 Ø 8 / 150mm

External Plastering  
 Water Proof Painting

Internal Plastering  
 Internal Painting

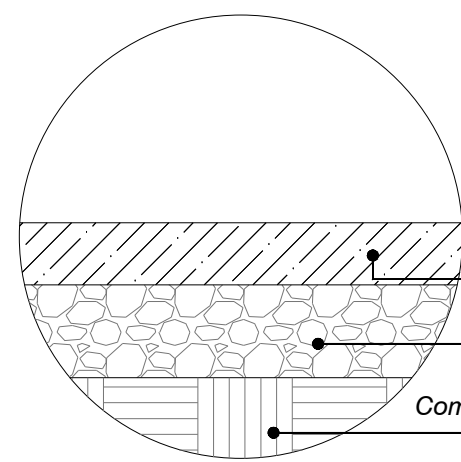
Solid Cement Block with size 40x20x20cm

Detail (3)

Reinforced concrete ground beam with size 25 x60 cm and 4 Ø 16 top and bottom and 1 Ø 8 / 150mm

Basalt Stone 50x60cm

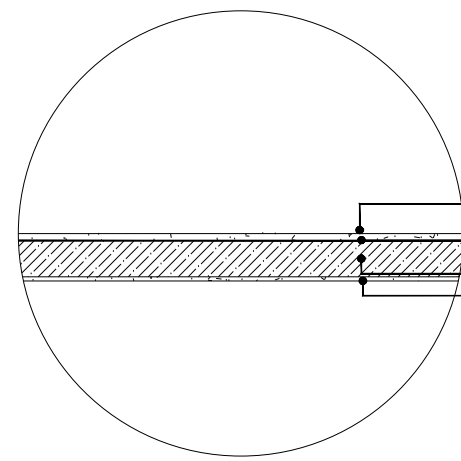
Rubber stone ( Joam ) with 20 cm thickness x 60 cm width



Reinforced Concrete 10cm with screed plain concrete, steel bars 5Ø10/m in both direction  
 Rubber stone with 20 cm thickness

Compacted Soil

Detail (3)



screed slab class(C25) cast to falls not less than 3 cm thickness in drain point.  
 bitumen rolls 4mm thick with primer  
 Solid slab concrete 15cm thickness  
 Plastering 2cm thickness  
 Painting

Detail (4)

International Organization for Migration (IOM)

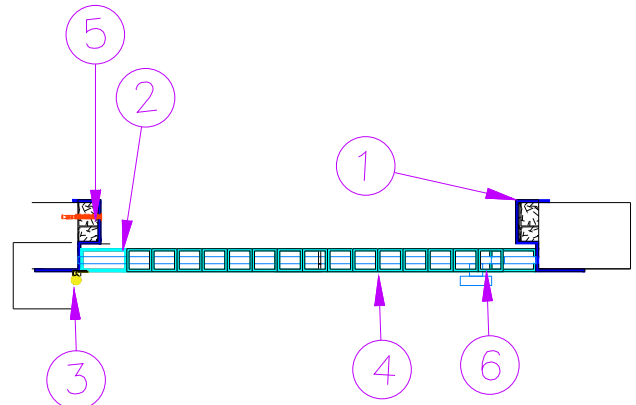
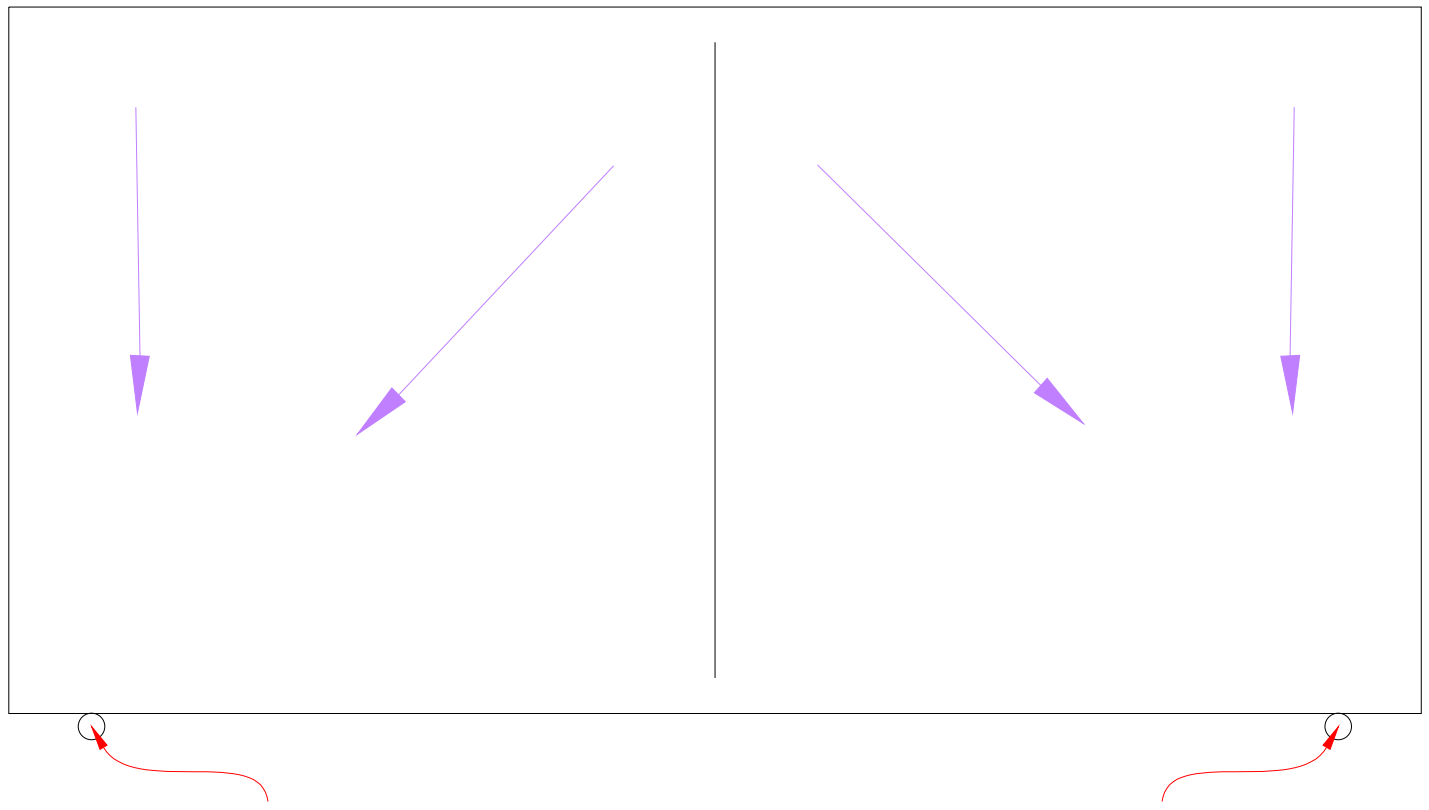
Project: **Microgrid in Beergadiid**

Location: **Beergadiid, Somalia**

Drawing Title: **CONTROL ROOM ELEVATION SECTION PLAN**

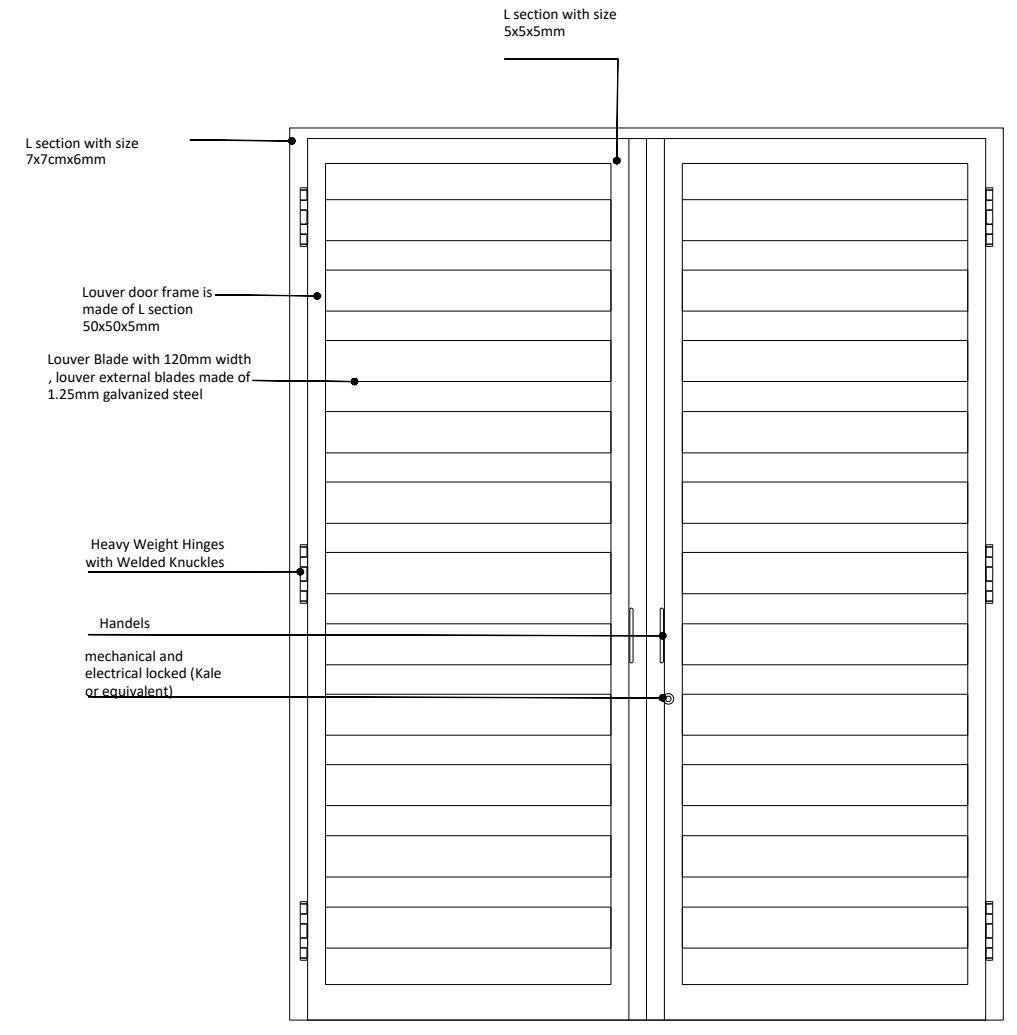
Date: 6, June 2024      Drawing Type: **STRUCTURAL**

Paper Size: A3      Drawing No.: **2**



- 1-External Frame size 20cm \*10 cm \*1.5mm\*2
- 2- Internal Frame size 40mm \* 80mm \* 1.5 mm
- 3-Heavy Weight Hinges with Welded Knuckles 12 mm \*12cm \*3
- 4- A Tube with size 40 mm \*40 mm \* 1.25 mm to distribute without leaving any space between them.
- 5-Hex Bolt on Concrete Anchor size D 20mm\* 20 cm\* 6 in each direction.
- 6. Locked.

Detail (2)



Door  
Detail (1)

International Organization for Migration (IOM)			
Project: <b>Microgrid in Beergadiid</b>			
Location: <b>Beergadiid, Somalia</b>			
Drawing Title: <b>CONTROL ROOM WATER DRAIN AND DOOR DETAILS</b>			
Date	6 June 2024	Drawing Type	<b>STRUCTURAL</b>
Paper Size	A3	Drawing No.	<b>3</b>

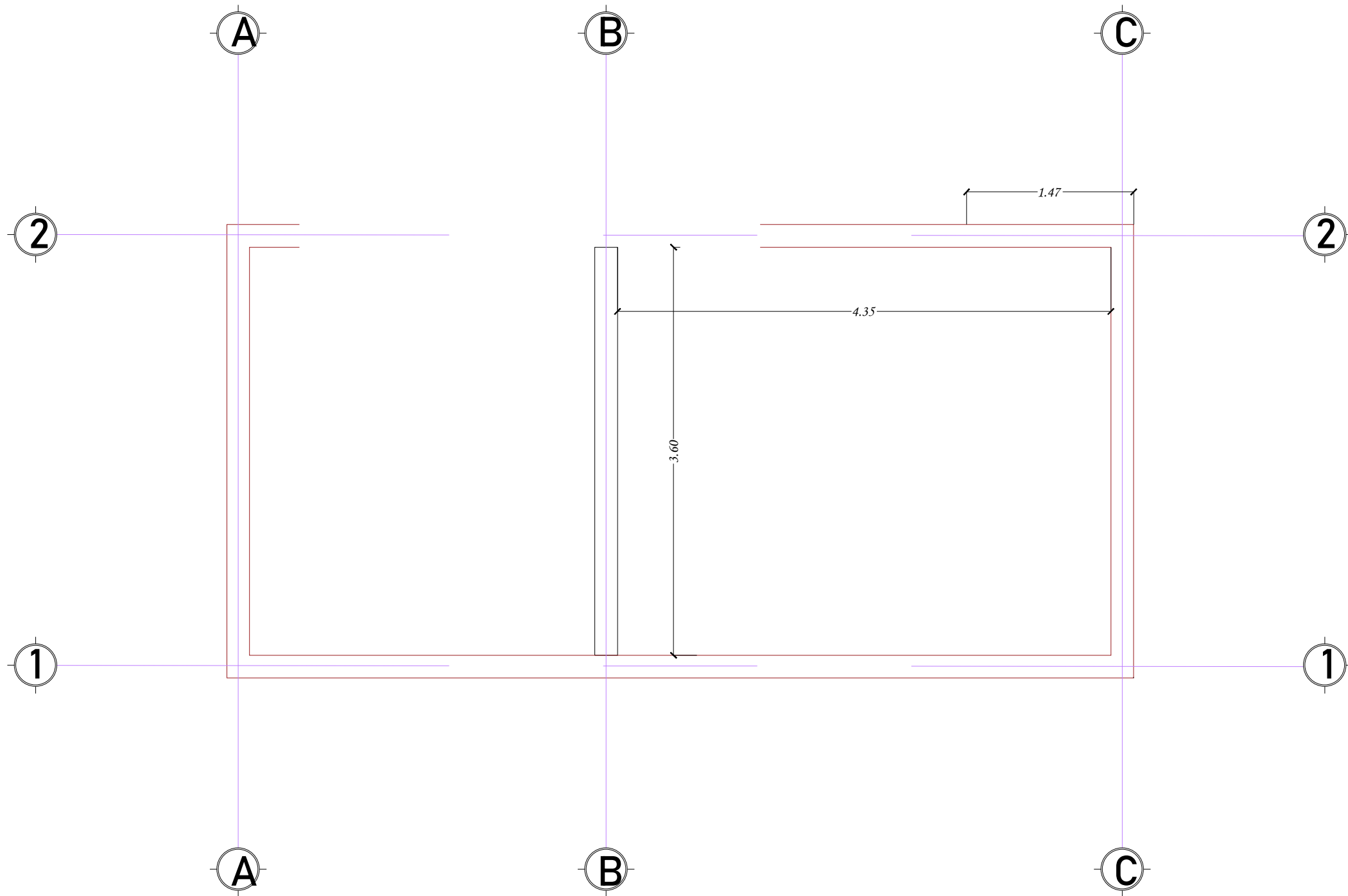


TABLE REINFORCEMENT FOR THE BEAMS

Symbol	Dimension		Reinforcement				Stirrup	
	Width (cm)	Height (cm)	Lower CON	Lower ADD	Upper CON	Upper ADD	MID	EDGE
B1	20	50	3Ø16	-----	3Ø16	-----	1Ø8@150mm	1Ø8@150mm
GB1	25	60	4Ø16	-----	4Ø16	-----	1Ø8@150mm	1Ø8@150mm

International Organization for Migration (IOM)

Project: Microgrid in Beergadiid

Location: Beergadiid, Somalia

Drawing Title: CONTROL ROOM BEAMS REINFORCEMENT DETAILS-1

Date: 6 June 2024 Drawing Type: STRUCTURAL

Paper Size: A3 Drawing No. 4

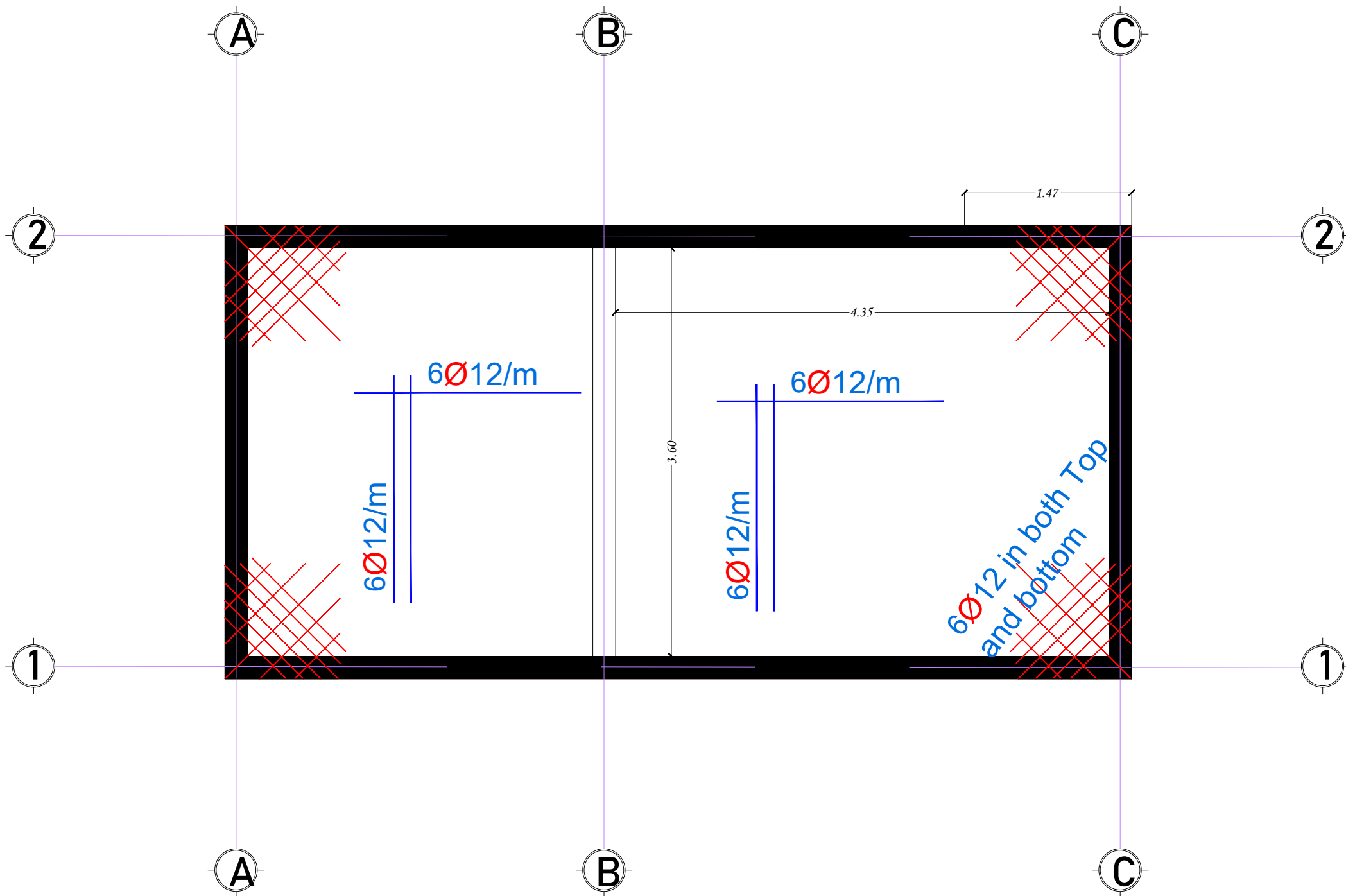


TABLE REINFORCEMENT FOR THE BEAMS

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GB1	25	60	4Ø16	-----	4Ø16	-----	1Ø8@150mm	1Ø8@150mm

International Organization of Migration (IOM)

Project: **Microgrid in Beergadiid**

Location: **Beergadiid, Somalia**

Drawing Title: **CONTROL ROOM BEAMS REINFORCEMENT DETAILS-2**

Date: 6 June 2024 Drawing Type: **STRUCTURAL**

Paper Size: A3 Drawing No.: **5**