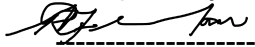


SCOPE OF WORK DOCUMENT

Battery Room Refurbishment at Various Eskom Telecommunication sites within Gauteng. Scope of work. The scope of work is extracted from the planning book which has been signed off. A copy of the planning book with drawings of the various sites will be included.

Compiled by:



S.R Feldman

Project Manager

Date: 19 July 2021

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Background of the Project

- Various Radio Site have been identified by ET Gauteng region and North West region to have the DC and Aircon equipment replaced, the chargers and batteries have been in service for a time far exceeding their design lifespan and the physical conditions and performance has deteriorated. The battery rooms are not in good condition and has to be refurbished.
- The radio sites are backbone sites and carries a lot of links and continued use of such batteries and chargers compromise the standby time of the radio station in case of AC failure or high rise of temperature in case air cons fails. Failure not to replace the equipment will have a huge impact on our links, circuits and network and we also need to protect ET's revenue.

Additional Information

The Scope that will be fulfilled by the supplier will be done in conjunction with the Battery Room Standard Document – 240-5617718. Items as per the detailed scope of work will be referenced back to the Battery Room Standard Document. Procedure 240-89797258(The safe handling, transportation and disposal of cells, batteries and electrolyte) will be applicable for the management of any acid spillage

During the refurbishments of the battery rooms the successful tenderer will comply with Eskom Standards and adhere to Eskom SHEQS Standards.

Only Qualified Technicians and Artisans shall remove and commission batteries and will be responsible for the refurbishments of the battery rooms as per scope of work.

Detailed Scope of Work

- Decommission existing 48v battery banks in the battery room.
- Remove the stands in the battery room and move them to the auxiliary room.
- Connect temporary battery bank to the charger.
- Neutralize, Grind, Fill and level the floor of all acid traps.

- Prime the floor and apply acid resistant epoxy paint.

The epoxy floor finish shall:

- Be uniform and impermeable to the battery electrolyte.
- The epoxy shall have a high abrasion resistance and weathering resistance.
- The epoxy shall be resistant to chemicals of greater concentration than the battery electrolyte (35% sulphuric acid or 35% potassium hydroxide).
- The epoxy shall be no less than 5 mm thick when dry.
- The epoxy and floor preparations shall be done as specified by the epoxy manufacturer.
- Paint walls and ceiling with acid resistance paint.
- The walls of the battery rooms shall be painted with an approved, acid resistant primer and white enamel paint.

The chemical-resistant paint shall:

- Be resistant to occasional splashing of the chemicals being housed in the battery room.

Install and commission back the battery banks and stands and insure that battery stands are not directly under lights for maintenance purpose.

The supplier shall:

- Supply all material required to refurbish the battery room
- Supply own traveling and accommodation as required
- Battery room sizes have been supplied. Refer to room drawings
- Supply manpower to refurbish the battery room
- Supply the necessary equipment to refurbish the battery room
- Comply with Eskom Safety rules and regulations

Site Information

Refurbishment of battery rooms at seven sites within the Gauteng Area. Sites are as follow:

- Sunnyridge RS
- Fontana RS

- Lethabo RS
- Grootvlei RS
- Driehoek RS
- Pabx Room
- Eloff RS

Detailed coordinates can be made available on request to tenderers.

[Procedures/Standards.](#)

Battery Room Standard –240-5617718



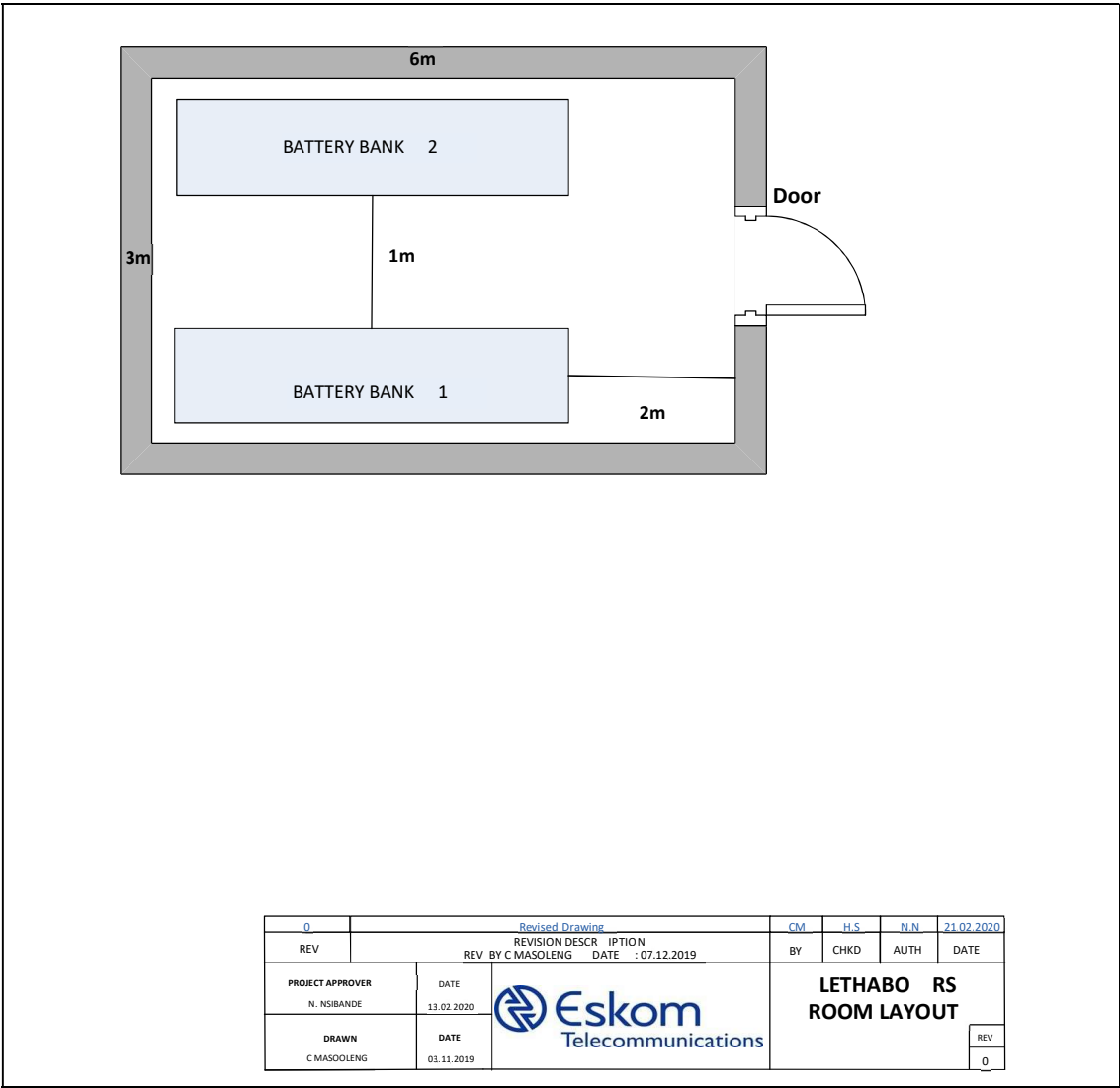
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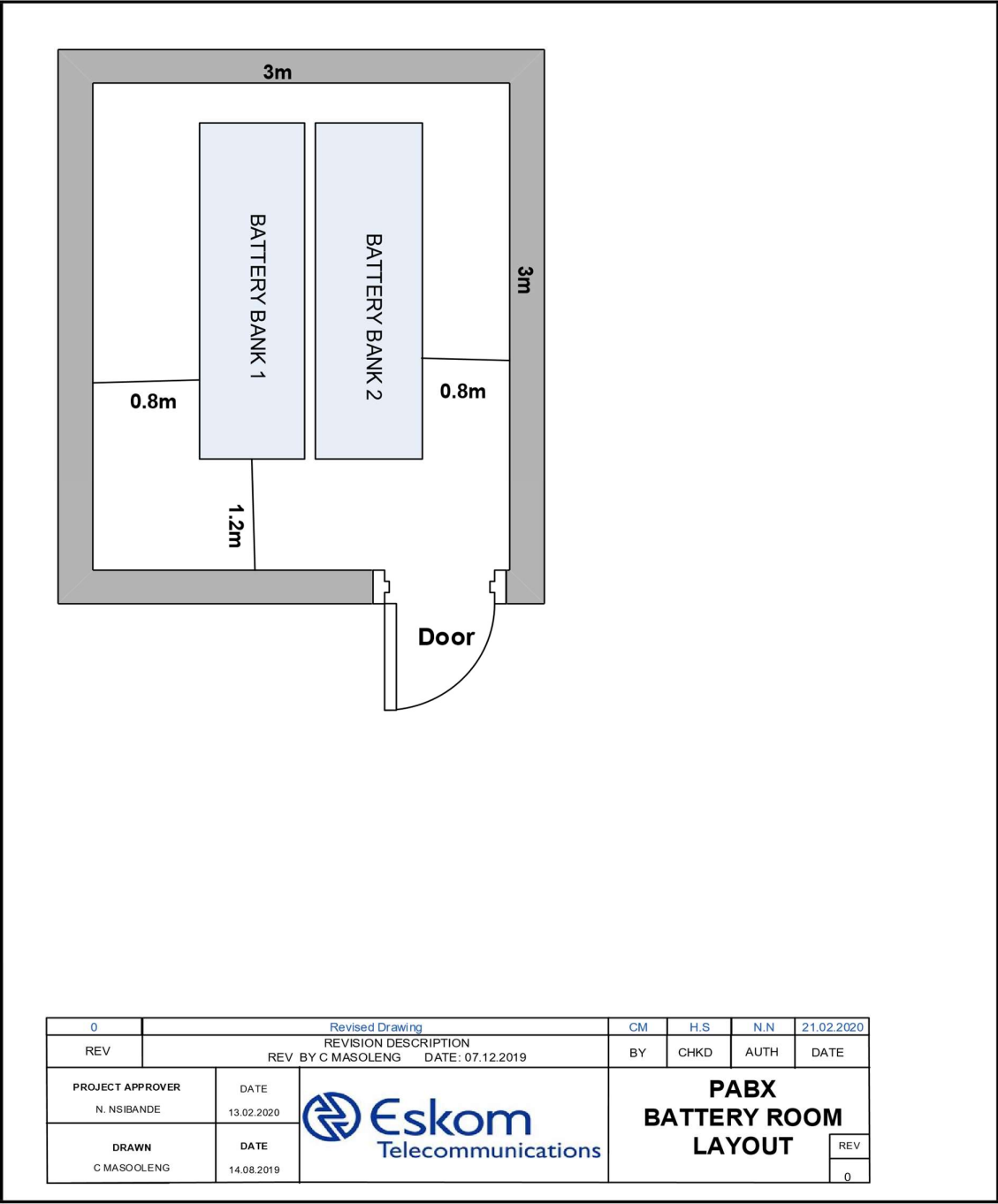
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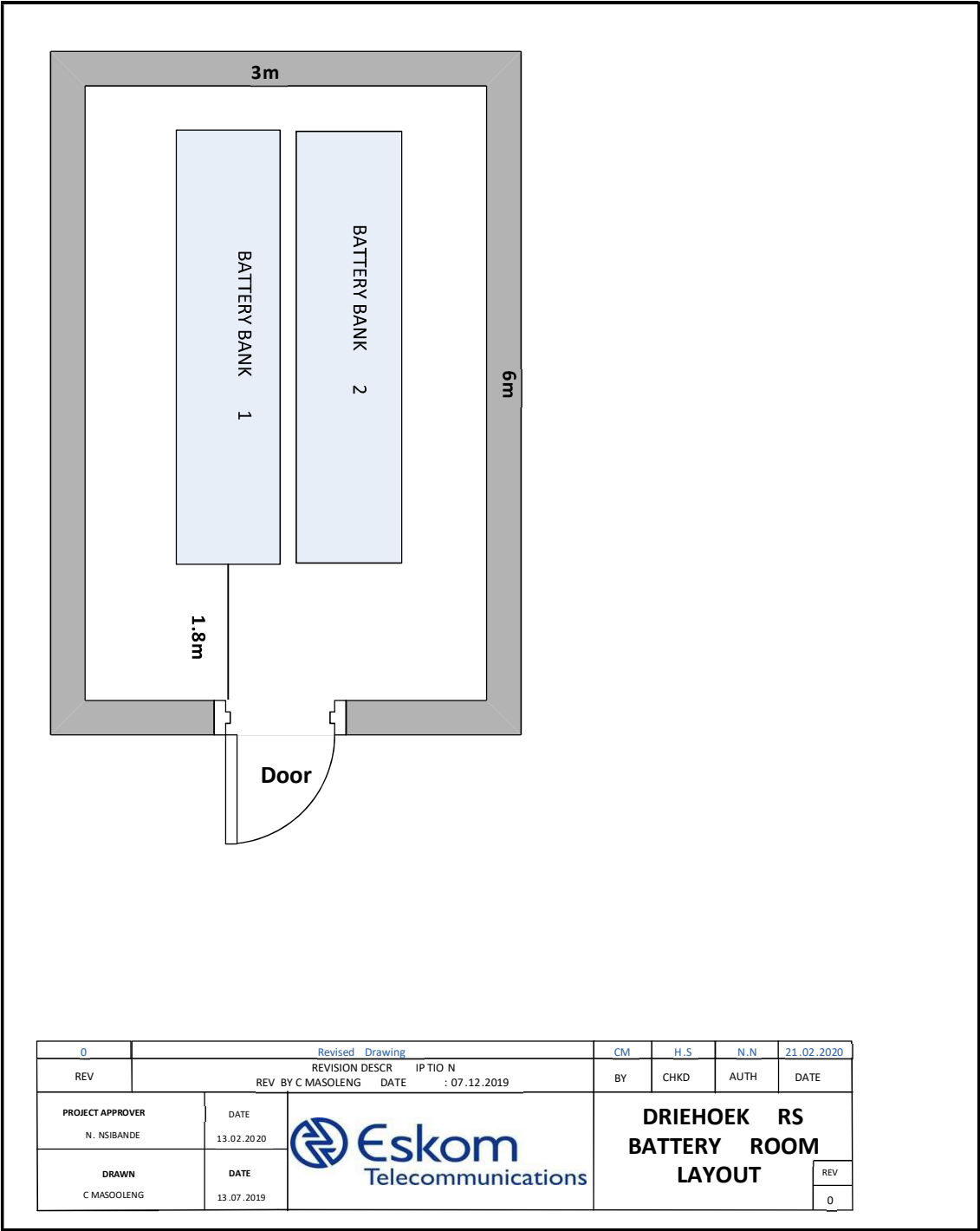


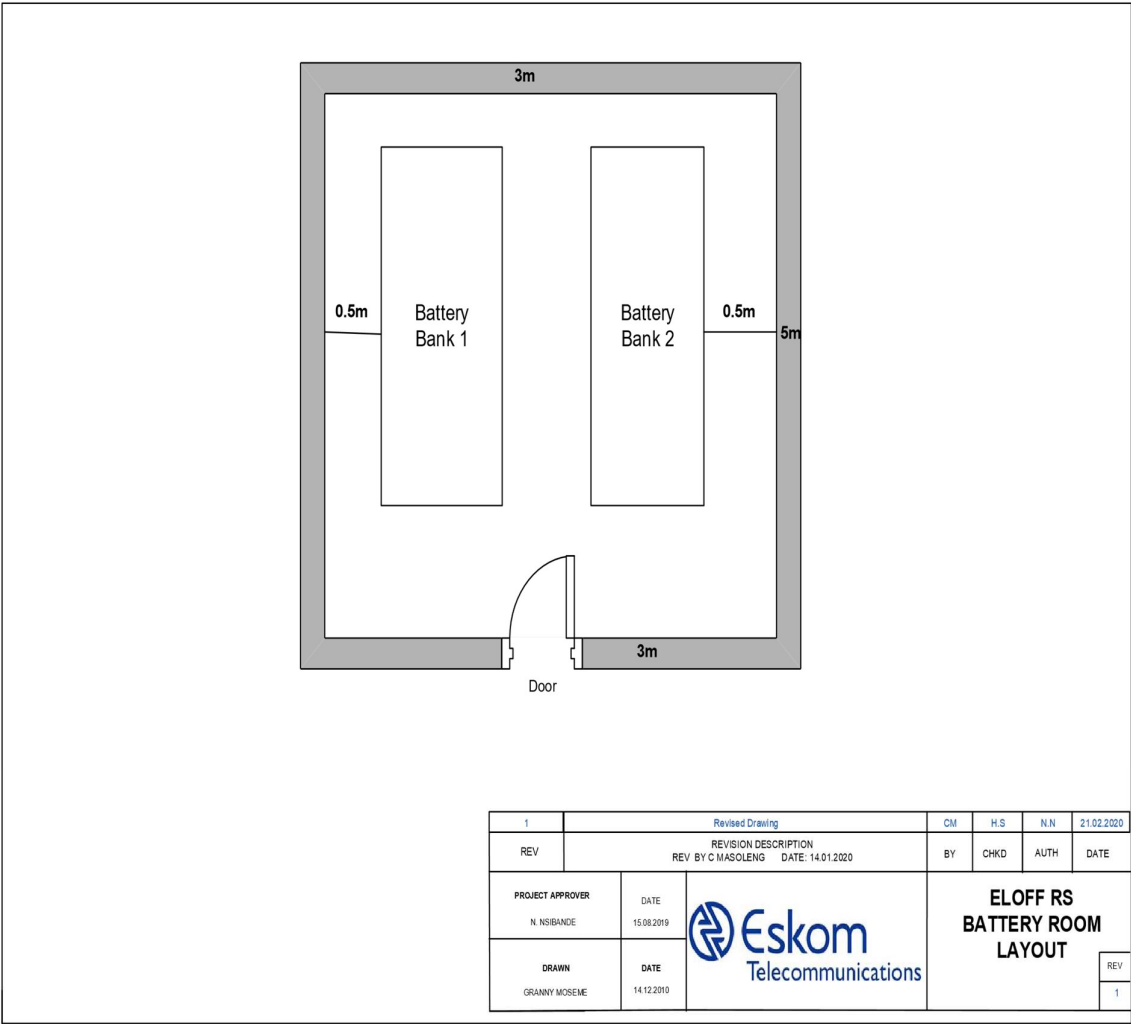
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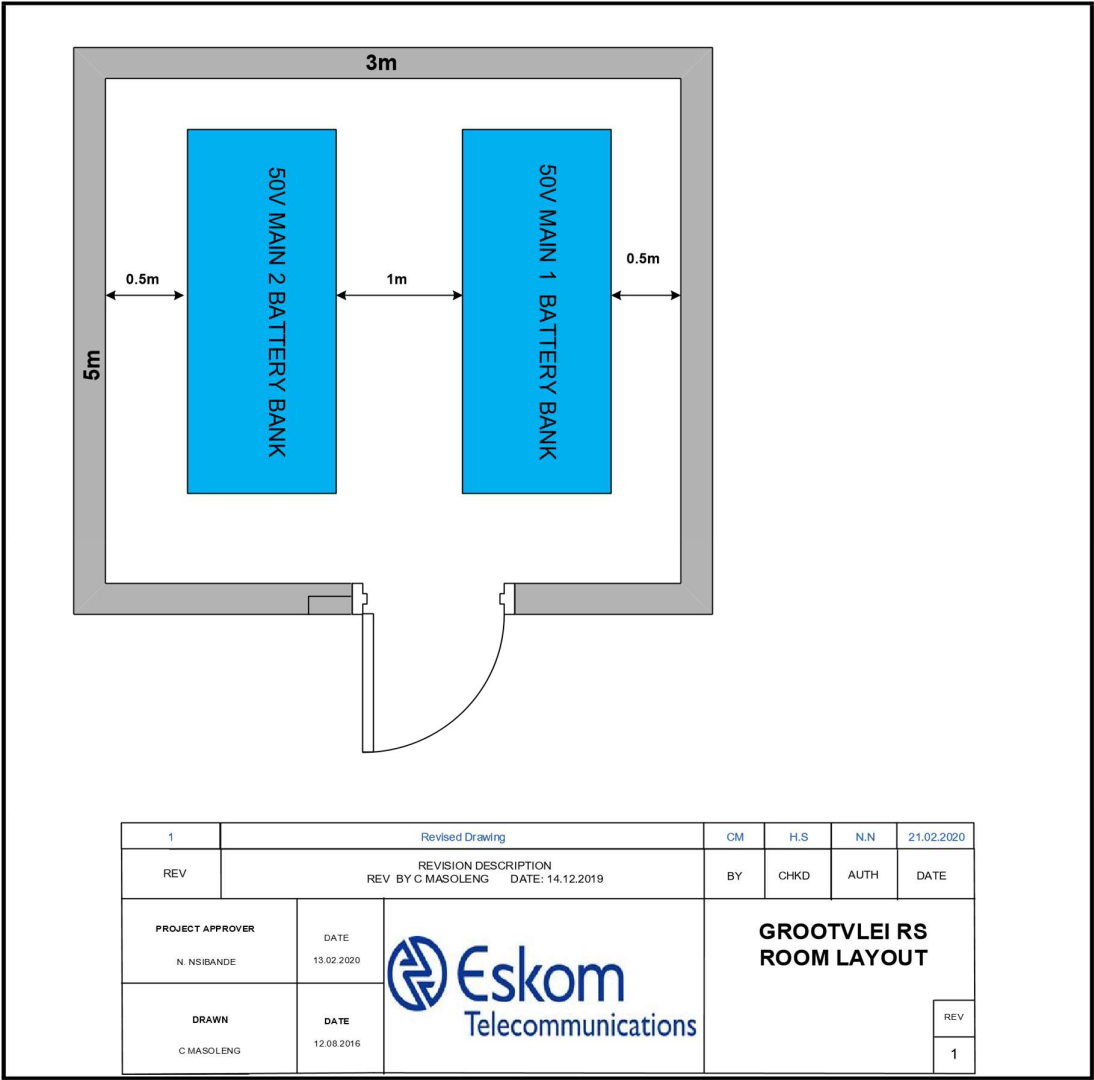
DRAWINGS

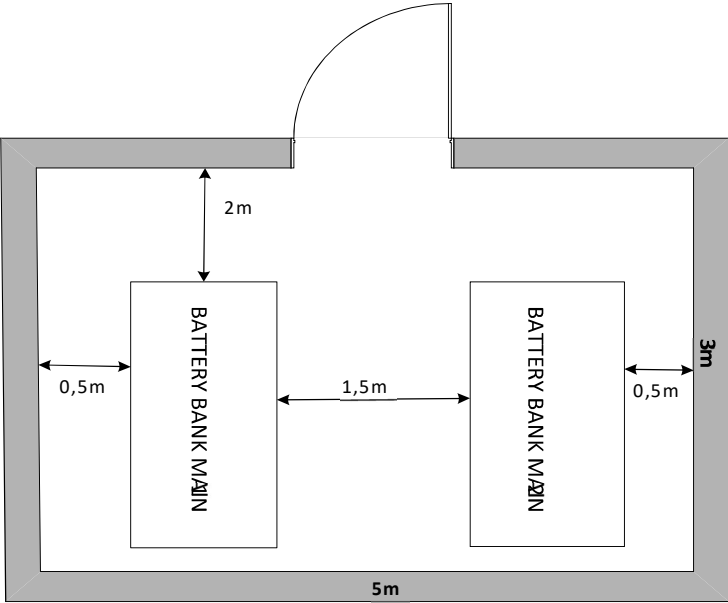






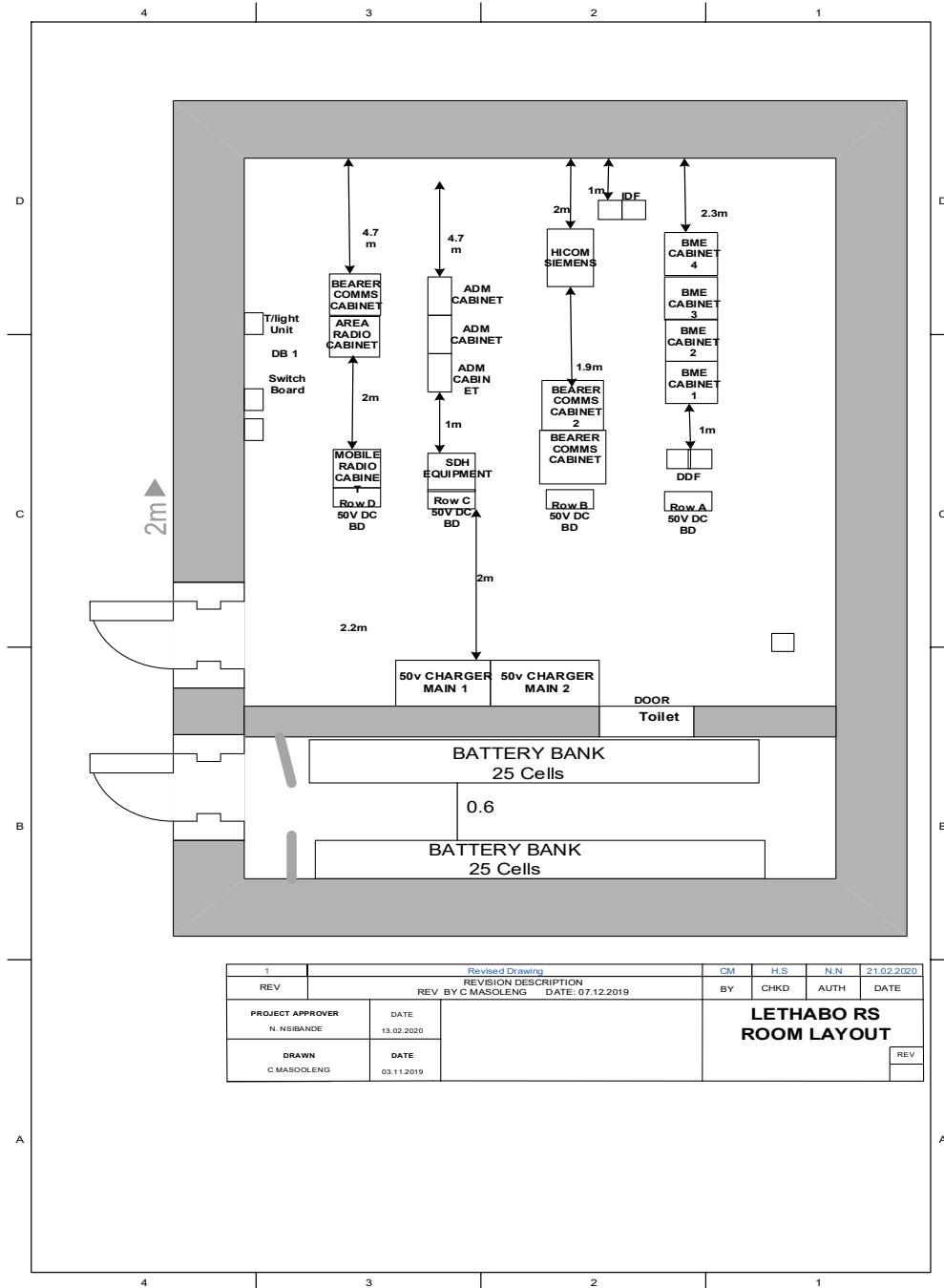






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REV	REVISION	DESCR	IP TIO N	BY	CHKD	AUTH	DATE
	REV BY C MASOLENG	DATE	: 07.12.2019				
PROJECT APPROVER		DATE	 FONTANA RS BATTERY ROOM LAYOUT				
N. N. N. N. N. N		13.02.2020					
DRAWN		DATE					
C. MASOLENG		13.10.2019					
							REV

Sunnyridge RS Room Layout



1	Revised Drawing				CM	H.S	N.N	21.02.2020
REV	REVISION DESCRIPTION REV BY C MASOLENG DATE: 07.12.2019				BY	CHKD	AUTH	DATE
PROJECT APPROVER N. NSIBANDE		DATE 13.02.2020		LETHABO RS ROOM LAYOUT				
DRAWN C MASOLENG		DATE 03.11.2019						
								REV