## RAS EL MATN - COMPOSTING STATION

# PROJECT BRIEF

#### **INTRODUCTION:**

The Diverting Waste by Encouraging Reuse and Recycling Activity (DAWERR) is a five-year activity funded by the United States Agency for International Development (USAID) that aims to establish sustainable solid waste diversion and valorization solutions in collaboration with municipalities in various rural areas of Lebanon, thereby improving the social, environmental, and economic well-being of Lebanese citizens. To address the challenges and harness the opportunities in Lebanon's SWM sector, DAWERR is implementing a phased research and development (R&D) approach to execute its activities.

In DAWERR's second phase and building on the lessons learned from the pilot, DAWERR is supporting three groupings of municipalities consisting of 3 to 4 municipalities across Lebanon. Among the three groupings, DAWERR is targeting the Ras El Matn grouping, which consists of three municipalities: Deyr El Harf, Qortada, and Ras EL Matn (Hosting the composting station), and their local communities to develop sustainable composting value chains for organic waste, including source separation, collection, and composting of organic waste through the construction of small-scale, low-tech (with spare parts available in the local market), low-cost (capital and O&M) composting stations and strengthening existing value chains for recyclable materials with the aim to divert solid waste from landfills and promote waste valorization.

DAWERR is facilitating a collaboration model between the three municipalities and is providing targeted technical, financial, and business support to design, implement, and manage a joint comprehensive Solid Waste Management (SWM) solution.

## SUMMARY OF CONSTRUCTION ACTIVITIES AND PROVISION OF **EQUIPMENT**

DAWERR will construct a composting station - container composter, and conduct training to the Municipality/Operator to operate and maintain the station and ensure its sustainability beyond the life of the Activity as follows:

#### I. Construction Activities:

### **Municipality Contribution:**

The municipality will be responsible for obtaining the necessary permits and approvals for the composting station (including establishment permit and construction permit) from the related authorities and will contribute to the construction works in the selected plot/site (plot#3706, Ras EL Matn) that will host the composting station including:

- The topographic surveys during the project implementation, when needed.
- Rehabilitation and asphalting of the access road leading to the project's site.
- Planting trees all around the project's fence.

Municipality work contribution will be implemented under the design and supervision of DAWERR consultant engineer.

#### **DAWERR Contribution:**

DAWERR will be responsible for the following:

- The earth works and land's preparation including excavation works, base coarse layer, etc.
- The reinforced concrete works for block A, block B & and the platforms under block C including blinding concrete, foundations, tie beams, channels and pits, slab on grade, columns, retaining walls, cover slabs, etc.
- The steel works including: the construction of Block A steel hangar, The steel fence, the project's gates, etc.
- Finishing for the Block A and B including partition, plastering, painting, water-proofing, doors, windows, tiling, etc.
- Electrical installation including power, lighting and low current, networks, earthing, etc.
- Mechanical installation including drainage and water supply networks, sanitary fixtures for the reception's toilet, etc.
- Landscaping works including the asphalting of the external yards, etc.

#### Provision of Equipment:

Once the construction phase is completed, DAWERR will provide and install the following equipment through other contractors:

- Four container composter 40' (Blocks C) with all its related equipment.
- One Waste Water treatment unit.
- One screening machine to screen the compost produced.
- One generator for the electrical power supply.
- Solar Photovoltaic (PV) system for the Electrical power supply.

## RAS EL MATN COMPOSTING FACILITY LIST OF ARCHITECTURAL INTERMEDIARY DESIGN DRAWINGS

Sheet Number	SHEET TITLE	SCALE	
A-01	PROJECT BRIEF & LIST OF DRAWINGS	N.T.S.	
A-02	MASS PLAN	1/200	
A-03	GROUND FLOOR PLAN	1/100	
A-04	TOP OF ROOF PLAN	1/100	
A-05	SECTIONS AA & BB	1/100	
A-06	ELEVATIONS	1/100	
A-07 PRODUCTION LINE AND EQUIPMENT			



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0 19/07/2023INTERMEDIARY DESIGN RM RM RH REV. DATE MODIFICATION DRAWN DESIGNED CHECKED APPROVE

RAS EL MATN

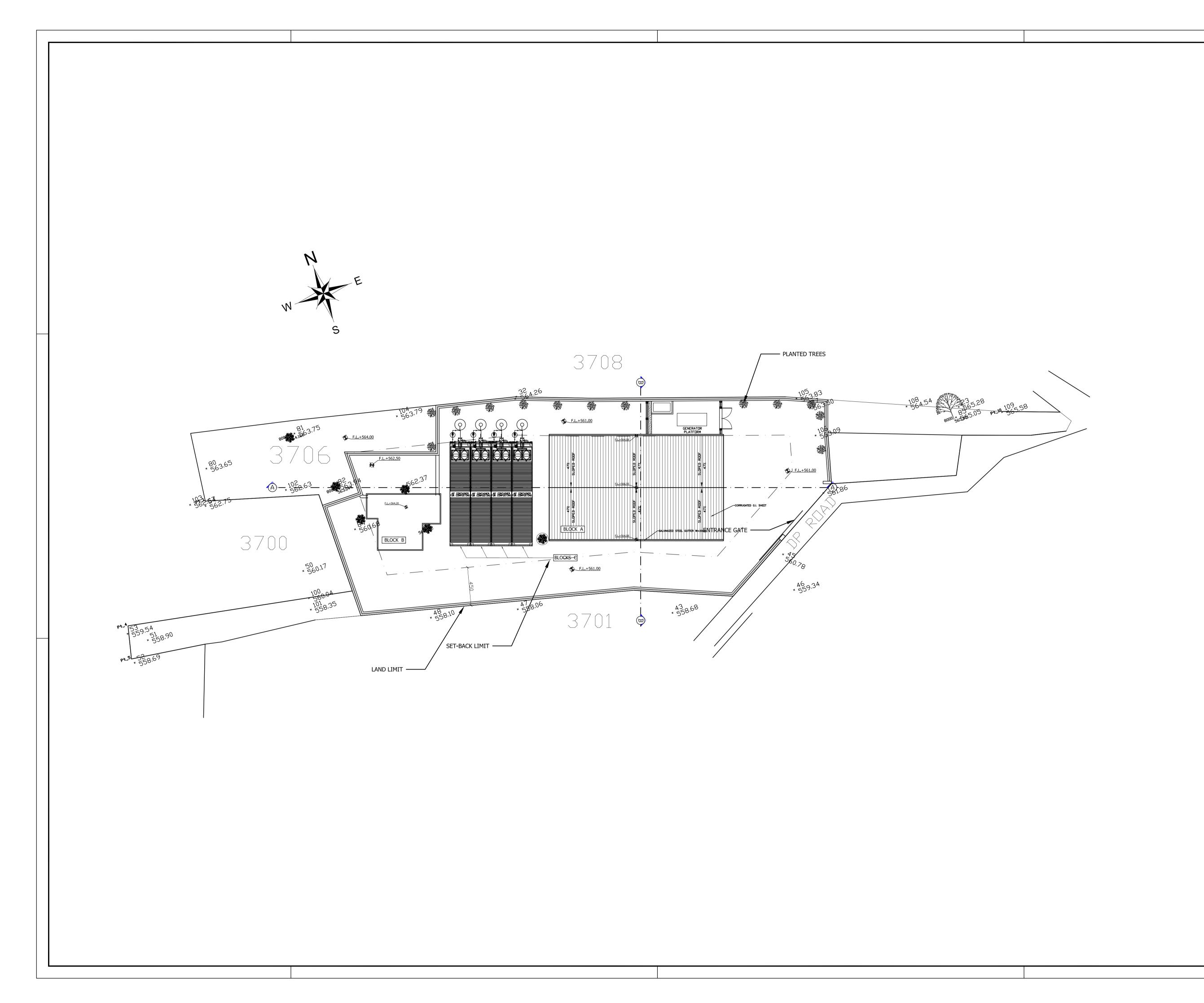
COMPOSTING STATTION RAS EL MATN

DRAWING TITLE:

PROJECT BRIEF LIST OF DRAWINGS

A01 DRAWING NUMBER

DATE: 19/07/2023 SCALE: N.T.S.





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GENERAL NOTES:

1-THIS DRAWING IS NOT TO BE SCALED, ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. 2-ALL DIMENSIONS ARE IN CENTIMETERS UNLESS OTHERWISE INDICATED.

0	19/07/2023	INTERMEDIARY DESIGN	RM	RM	RH	RH
REV.	DATE	MODIFICATION	DRAWN	DESIGNED	CHECKED	approved

RAS EL MATN

<u>Project Name</u>

COMPOSTING STATTION RAS EL MATN

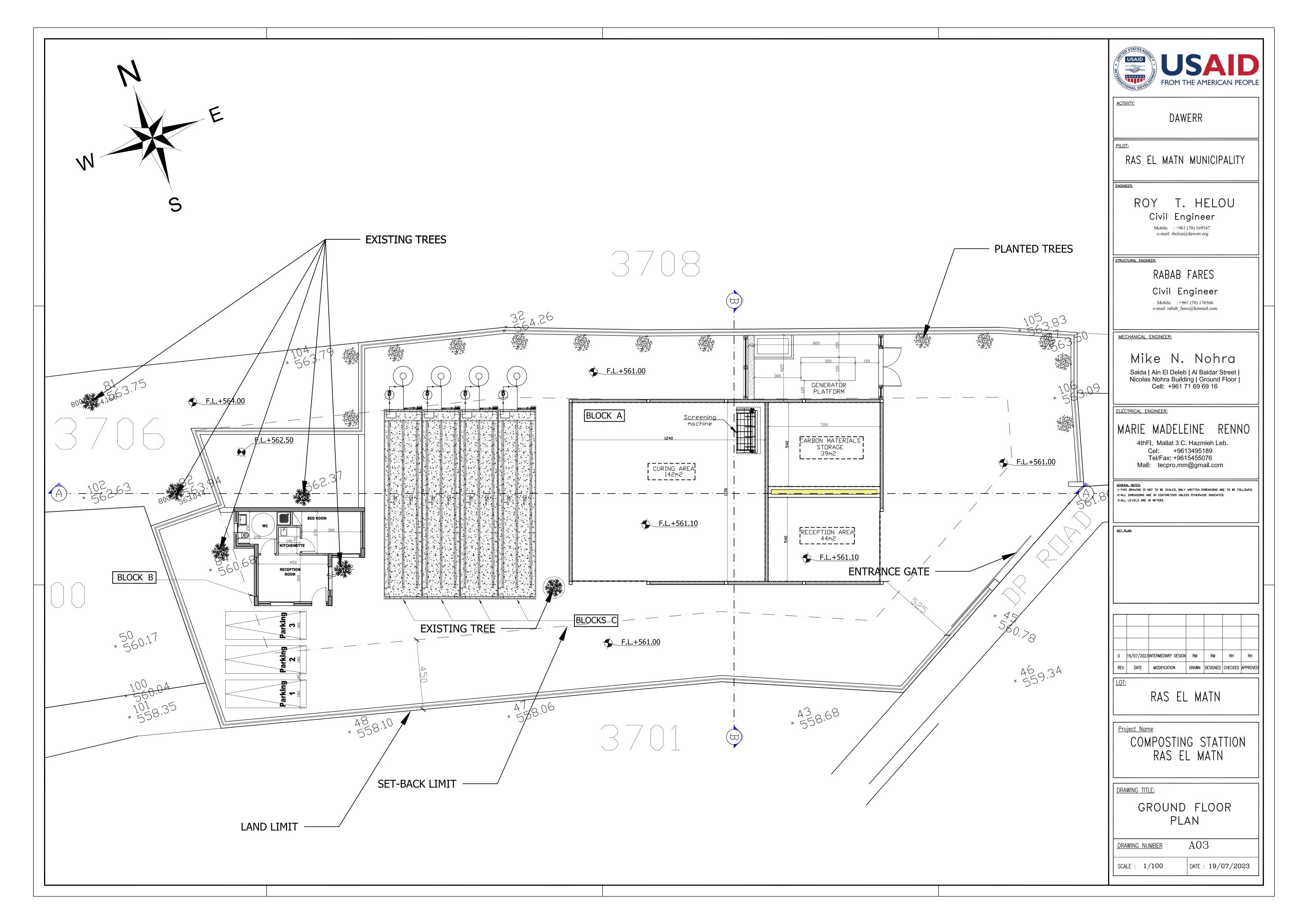
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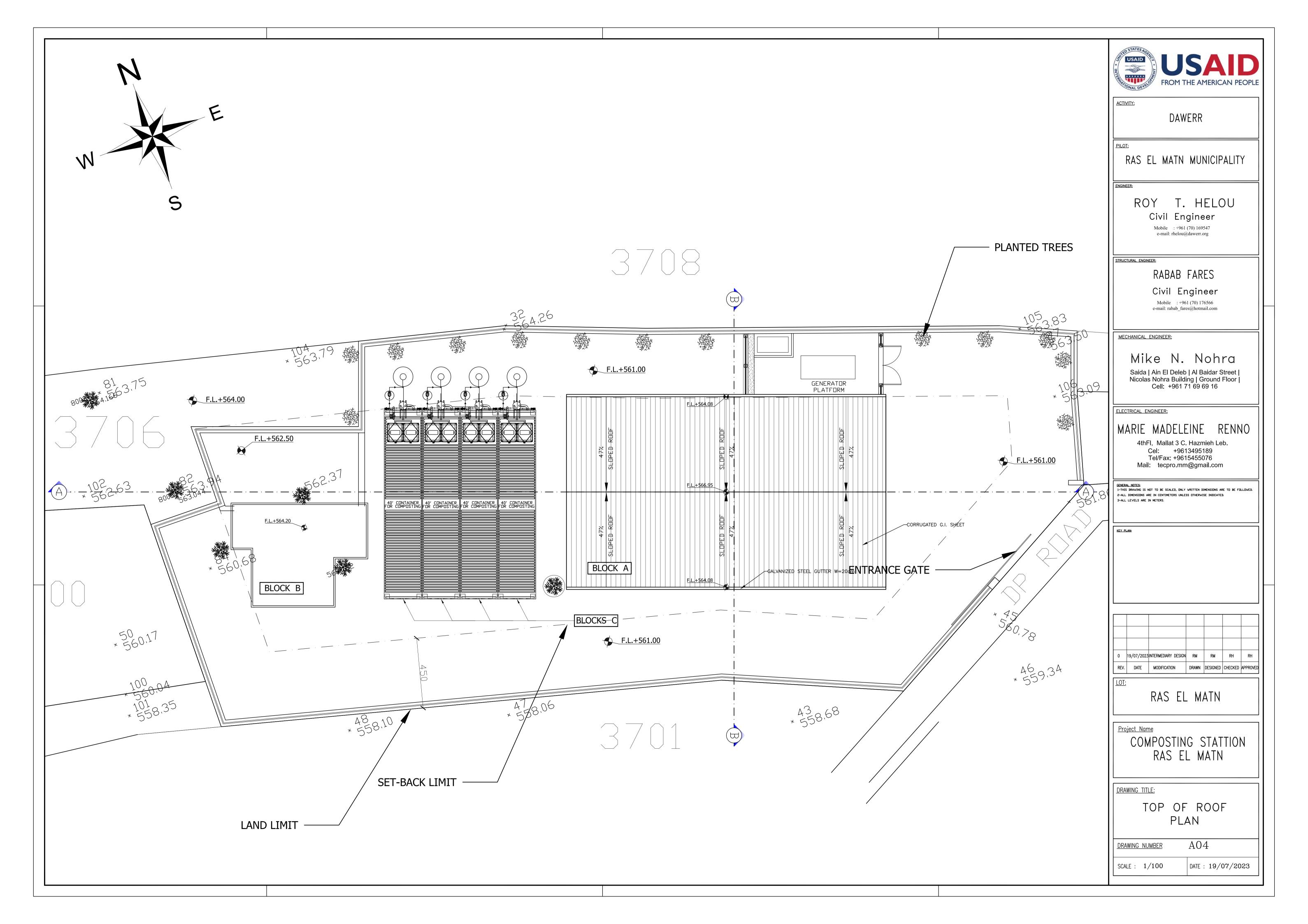
MASS PLAN

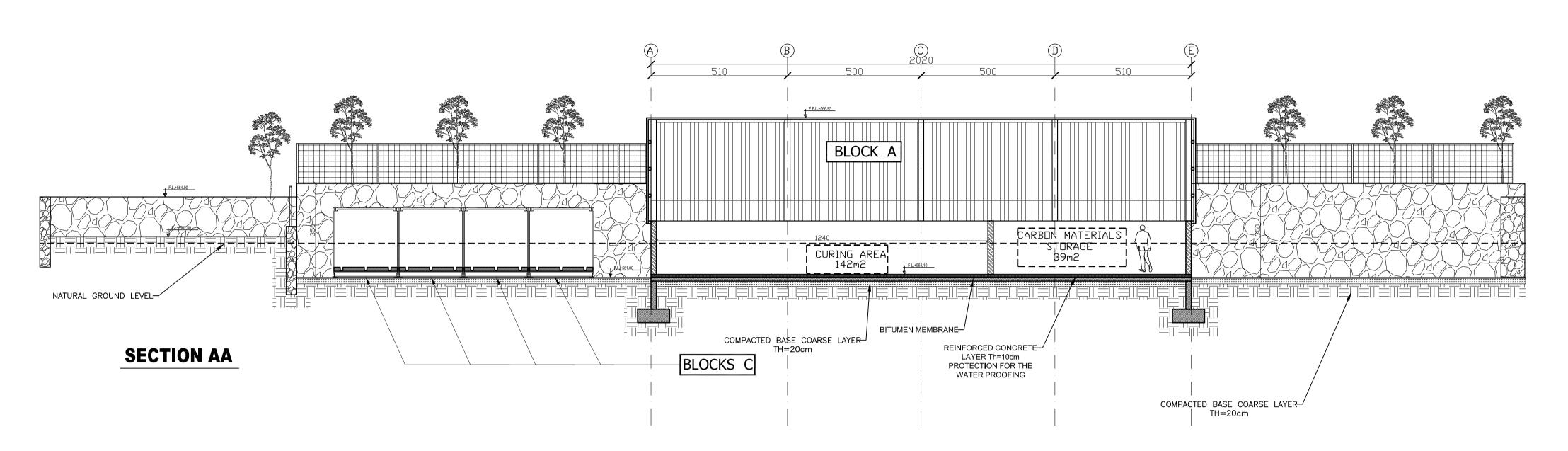
A02 DRAWING NUMBER

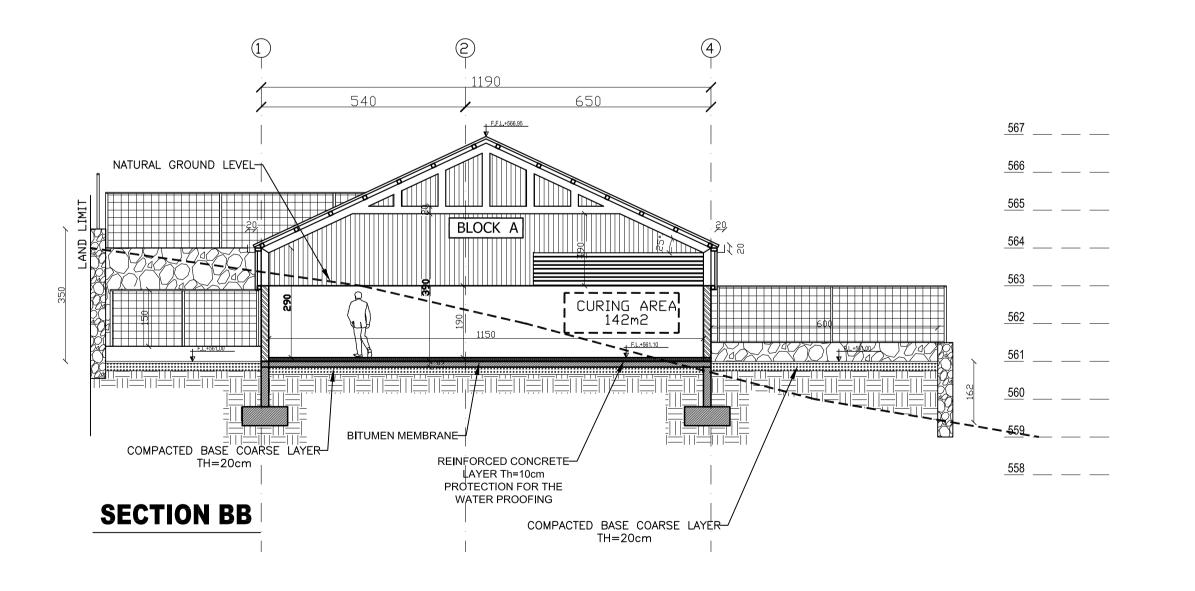
SCALE : 1/200

DATE: 19/07/2023











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	19/07/2023	INTERMEDIARY DESIGN	RM	RM	RH	RH
REV.	DATE	MODIFICATION	DRAWN	DESIGNED	CHECKED	APPROVED

RAS EL MATN

<u>Project Name</u>

COMPOSTING STATTION RAS EL MATN

DRAWING TITLE:

SECTIONS AA & BB

A05 DRAWING NUMBER

SCALE : 1/100

DATE: 19/07/2023

