QARAOUN - COMPOSTING STATION

PROJECT BRIEF

INTRODUCTION:

In Year I, DAWERR started developing sustainable composting value chains for organic waste and strengthening existing Recycling Value Chains (RVCs) for recyclable materials in seven selected municipalities, including QARAOUN, as solid waste diversion and valorization pilots (the "pilots").

As part of the pilots, DAWERR will support QARAOUN Municipality and its local community to develop sustainable composting value chains for organic waste (representing 50% of the total municipal solid waste stream) 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, creating local demand for the compost produced for agricultural, landscaping, or other uses as soil conditioner/ fertilizer supplement. DAWERR also will facilitate linkages with existing material recovery facilities and engaging the private sector to strengthen value chains for other, non-organic recyclables.

DAWERR is providing targeted technical, financial, and business support to QARAOUN Municipality to design, implement, and manage the "pilot".

SUMMARY OF CONSTRUCTION ACTIVITIES AND PROVISION OF EQUIPMENT

DAWERR will construct a composting station - bunker composter (see details in the drawings below), 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:

a. 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#8135, QARAOUN) that will host the composting station including:

- I. The topographic surveys during the project implementation, where needed.
- 2. Rehabilitation and asphalting the access road leading to the project's site.
- 3. The construction of cyclopean concrete walls for the project's fence.
- 4. Planting trees all around the project's fence.

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

b. **DAWERR** Contribution:

DAWERR will be responsible for the following:

- I. The earth works and land's preparation including Base coarse layer, excavation of the foundations, etc.
- 2. The reinforced concrete works including blinding concrete, foundations, tie beams, channels and pits, slab on grade, columns, retaining walls, cover slabs, etc.
- 3. The steel works including: the construction of Block A steel hangar, The steel fence, the project's gates, etc.
- 4. Finishing for the Block A, B and C (as shown in top of Roof Plan drawing) including partition plastering painting doors, windows, tiling, etc.
- 5. Electrical installation including power, lighting and low current, networks, earthing, etc.
- 6. Mechanical installation including drainage and water supply networks, sanitary fixtures for the reception's toilet, etc.
- 7. Landscaping works including the asphalting of the external yards, etc.

2. Provision of Equipment:

Once the construction phase is completed, DAWERR will provide and install:

- I. The bunkers' equipment.
- 2. One screening machine to screen the compost produced.
- 3. A new Solar Photovoltaic (PV) system or operating the existing one for the Electrical power supply. (To be confirmed; not included in this submission)

Important Note:

This submission is an intermediary design and will be used by the municipality in the permit's acquisition process.

The detailed drawings, calculation notes, tests, etc., will be submitted after the permit issuance.

QARAOUN COMPOSTING FACILITY LIST OF ARCHITECTURAL INTERMEDIARY DESIGN DRAWINGS

Sheet Number	SHEET TITLE	SCALE
A-00	LIST OF DRAWINGS — PROJECT BRIEF	N.T.S.
A-01	MASS PLAN	1/1000
A-02	SCHEMATIC SANITARY PLAN	1/100
A-03	SCHEMATIC FOUNDATIONS PLAN	1/100
A-04	GROUND FLOOR PLAN	1/100
A-05	TOP OF ROOF PLAN	1/100
A-06	SECTIONS AA & BB	1/100
A-07	ELEVATIONS	1/100
A-08	PRODUCTION LINE AND EQUIPMENT	1/100



ACTIVITY:

DAWERR

PILOT:

QARAOUN MUNICIPALITY

ENGINEER:

ROY T. HELOU
Civil Engineer

Mobile : +961 (70) 169547

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.

3-ALL LEVELS ARE IN METERS.

KEY PLAN:

 2
 30/06/2022
 Rev2-INTERMEDIARY DESIGN
 RM
 CA
 RHE

 1
 28/05/2022
 Rev1-INTERMEDIARY DESIGN
 RM
 CA
 RHE

 0
 22/04/2022
 INTERMEDIARY DESIGN
 RM
 CA
 RHE

 REV.
 DATE
 MODIFICATION
 DRAWN
 DESIGNED
 CHECKED

QARAOUN 8135

<u>Project Name</u>

COMPOSTING STATION

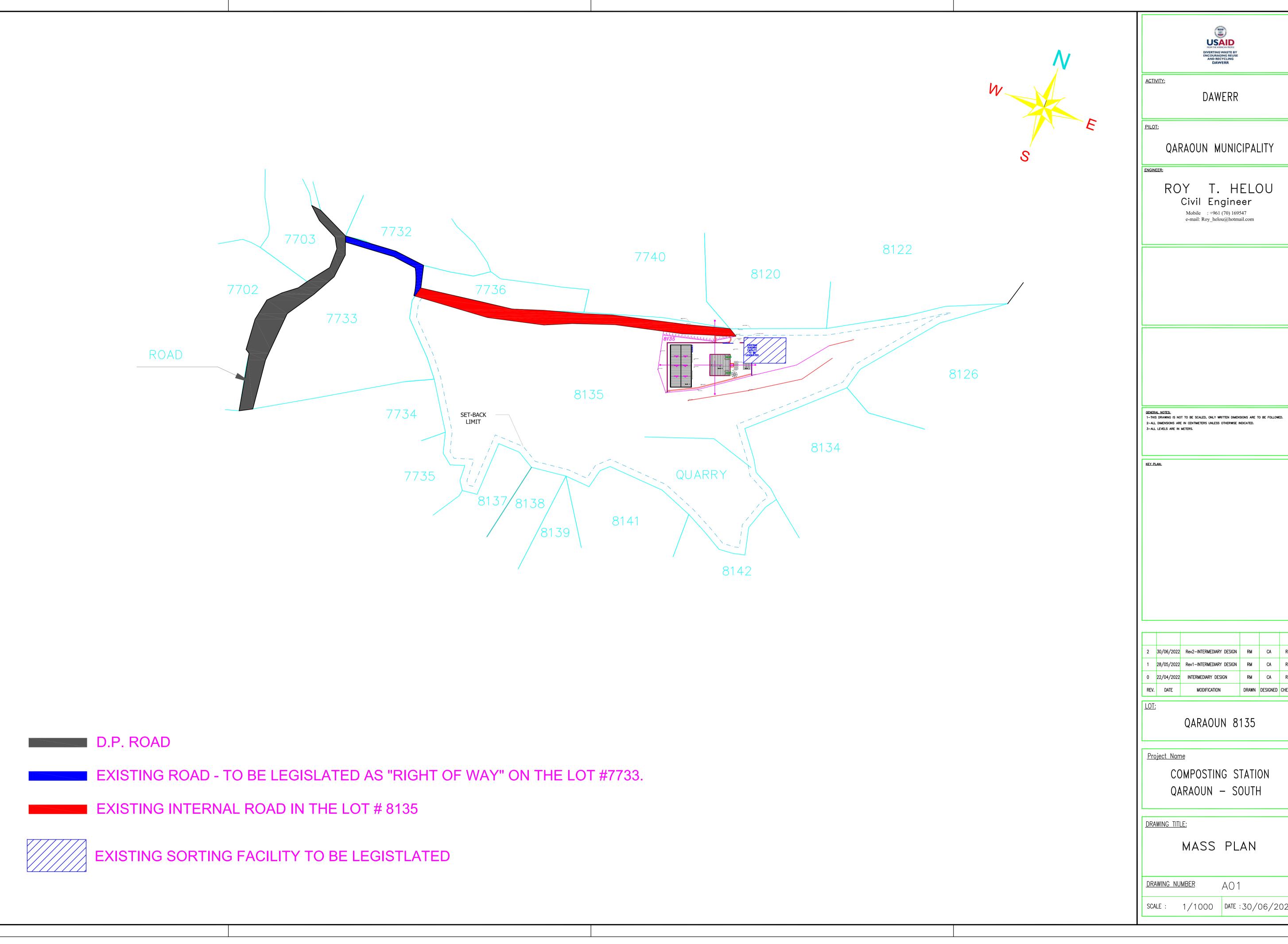
QARAOUN - SOUTH

DRAWING TITLE:

LIST OF DRAWINGS —
PROJECT BRIEF &
GENERAL NOTES

DRAWING NUMBER AOO

SCALE: N.T.S. DATE:30/06/2022



2	30/06/2022	Rev2-INTERMEDIARY DESIGN	RM	CA	RHE
1	28/05/2022	Rev1-INTERMEDIARY DESIGN	RM	CA	RHE
0	22/04/2022	INTERMEDIARY DESIGN	RM	CA	RHE
REV.	DATE	MODIFICATION	DRAWN	DESIGNED	CHECKED

COMPOSTING STATION QARAOUN - SOUTH

MASS PLAN

SCALE: 1/1000 DATE:30/06/2022

