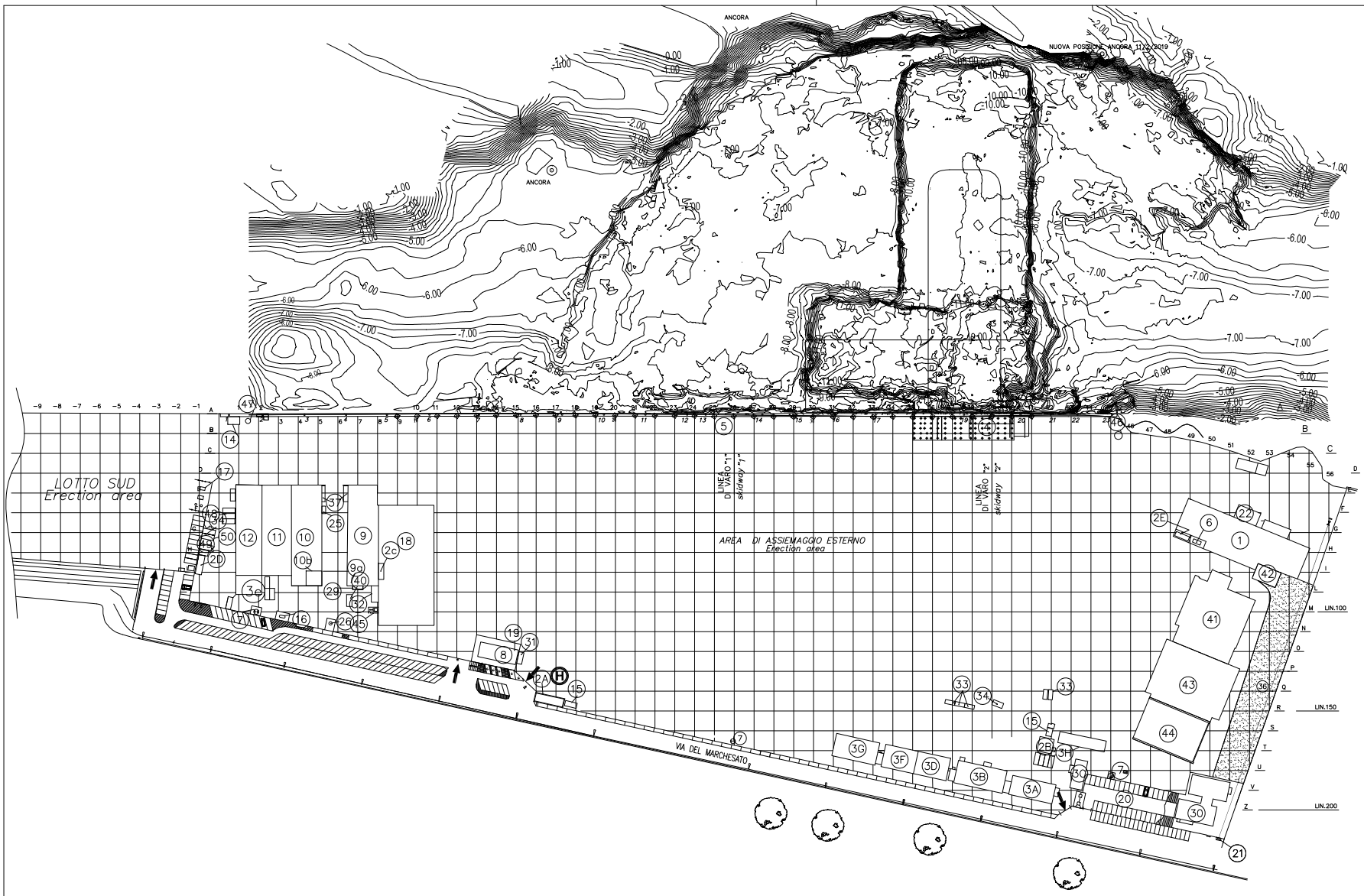
Software: Auto–CAD r2000 File: CADdraw.dwg



Quote batimetriche riferite al L.M.M.
riferimento CS RMN2–mareometro di Marina di Ravenna

ROSETTI MARINO RAVENNA ITALY

REV. REV.	DATA DATE	DESCRIZIONE / DESCRIPTION	DISEGN. DRAWN.	CONTR. CHECK.	APPROV. APPROV.	Q. A APPROV.
3						
2						
1						
0	18/03/19	EMISSIONE	MTM			

CANTIERE PIOMBONE
Via del Marchesato 37
Marina di Ravenna

PLANIMETRIA GENERALE/GENERAL LAY–OUT
BATIMETRIA STATO DI FATTO AL 28.02.2019
BATHIMETRY AS–BUILT AL 28.02.2019

DIS. N° / DWG Nr 79004.855
SCALA / SCALE 1:2000
FOGLIO SHEET 1 DI OF 1

Stampa: _ Foglio: A3

SIDE SCAN SONAR
MORPHOLOGICAL SURVEYS

Morphological survey for the verification of the seabed in front of ROSETTI YARD inside the Piomboni area (Port of Ravenna)

Rif. C2124

CONFORMITY CERTIFICATE OF THE AREA

Client:

ROSETTI MARINO

Index of revision

Rev.	Date	Description	Issue	Verified	Approved
0	21/05/2021	Emissione	S. Mancini	I. Malavolti	F. Morello
1					
2					
3					

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1.0 SCOP OF WORK

Subsea Fenix Srl from Ravenna have been completed morphological surveys in front of the Rosetti Marino Yard in the area known as the Piomboni inside Ravenna Harbor.

The entire work was carried out with the aim of mapping the seabed surface and identifying the presence of any targets / anomalies such as wrecks or debris, that could be dangerous or an obstacle to the clear navigation and safe approach to the Rosetti jetty. The focus of the survey must guarantee the following information:

- Mapping the morphology of the seabed;
- Target identification;
- Sizing and positioning of any target identified;
- Bathymetric and Morphological data merging;



Image 1 – Rosetti Marino "Piomboni" Yard

The service offered by Subsea Fenix srl included the supply of equipment, operators and everything necessary to perform the required survey, including data processing and their cartographic representation.

2.0 SCOP OF DOCUMNT

To complete the scope of work, this declaration was drawn up and delivered. The document hold the conclusions reached from the analysis of the onsite collected data.

The annex of this document was written to describe i the methods of execution of surveys and data processing, the list and characteristics of the instrumentation used and the personnel employed.

The conclusions was obtained by the analysis of the data acquired and mapped. All the info and the data used to determinate this conclusion was summarized in all the document and map annex to this document.

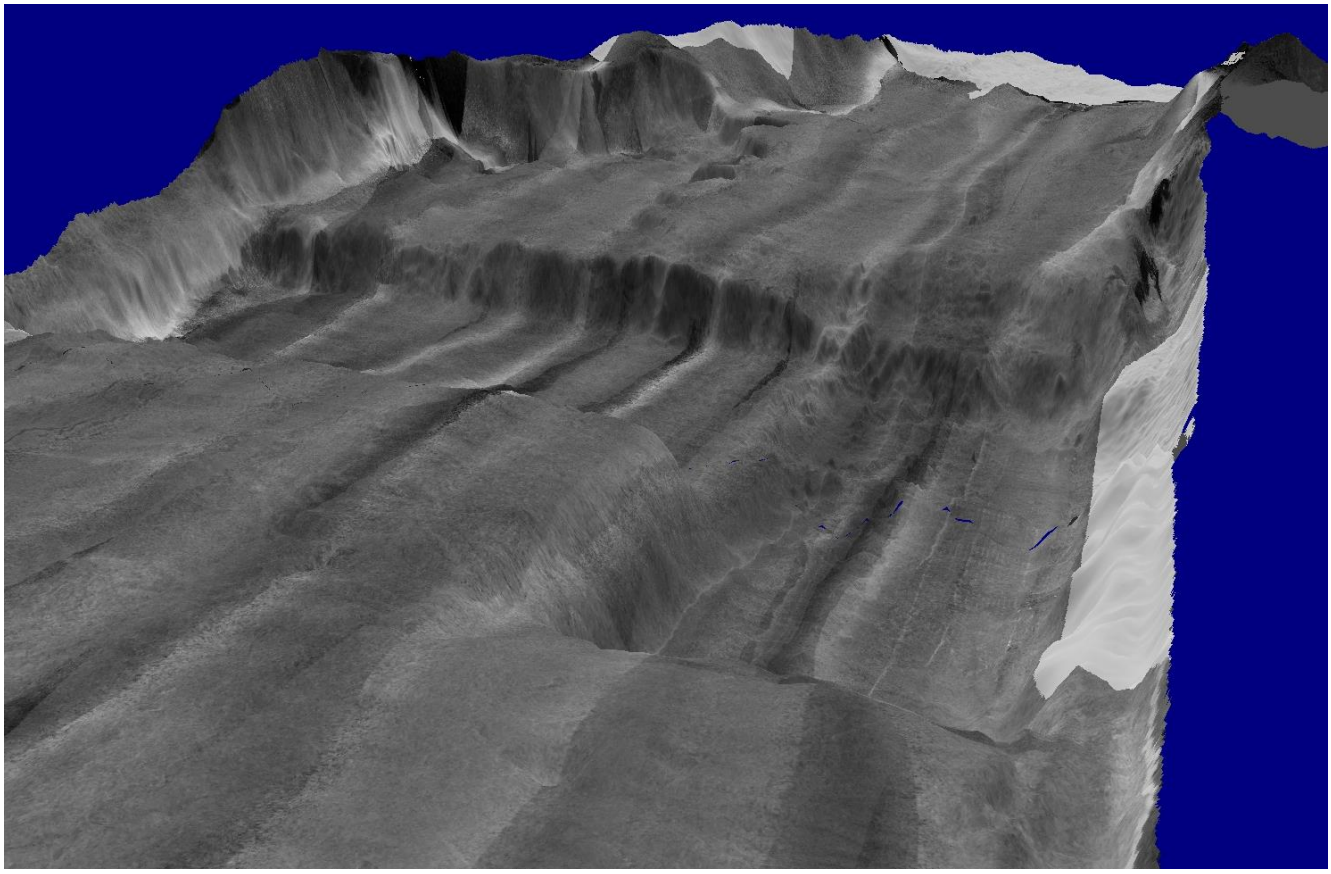


Image 2 – 3D Image of photomosaic

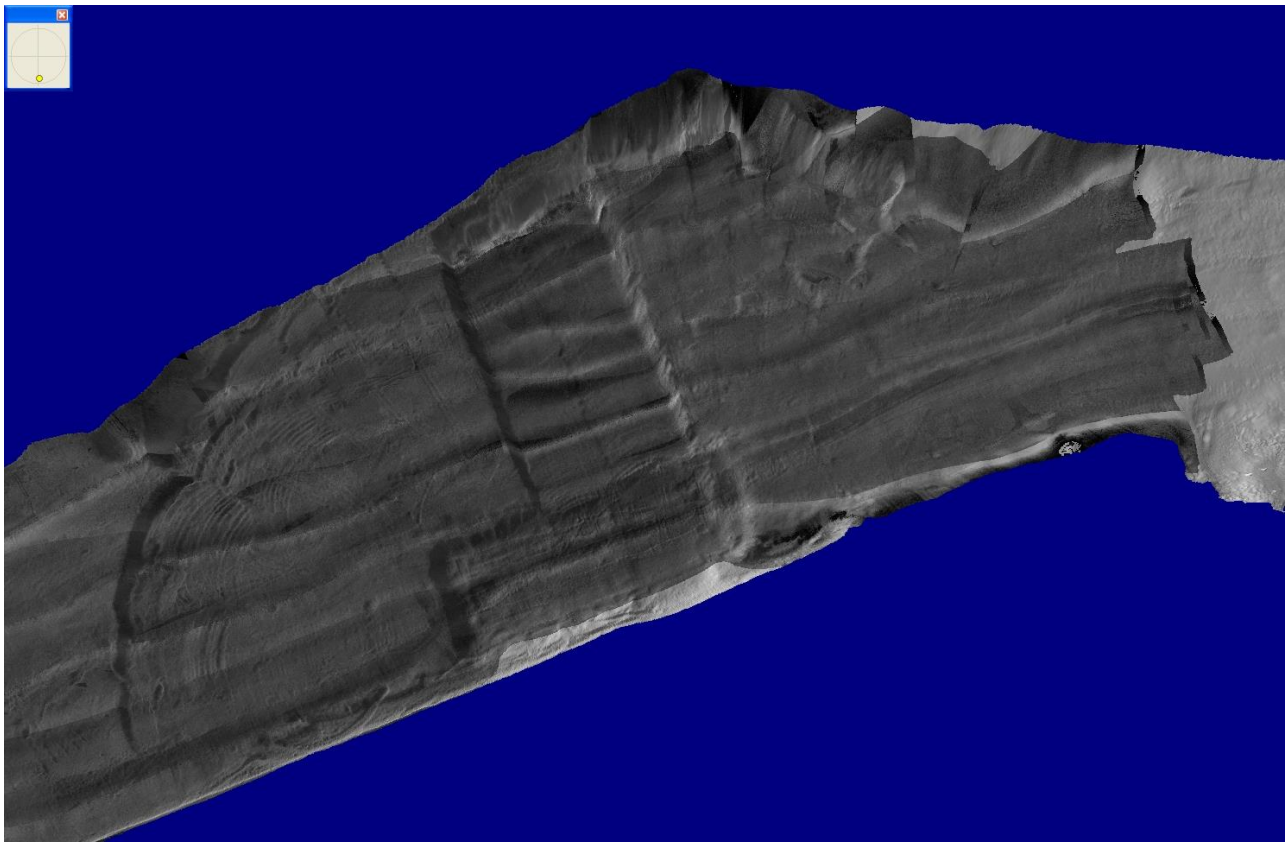


Image 3 – 2D Image of photomosaic

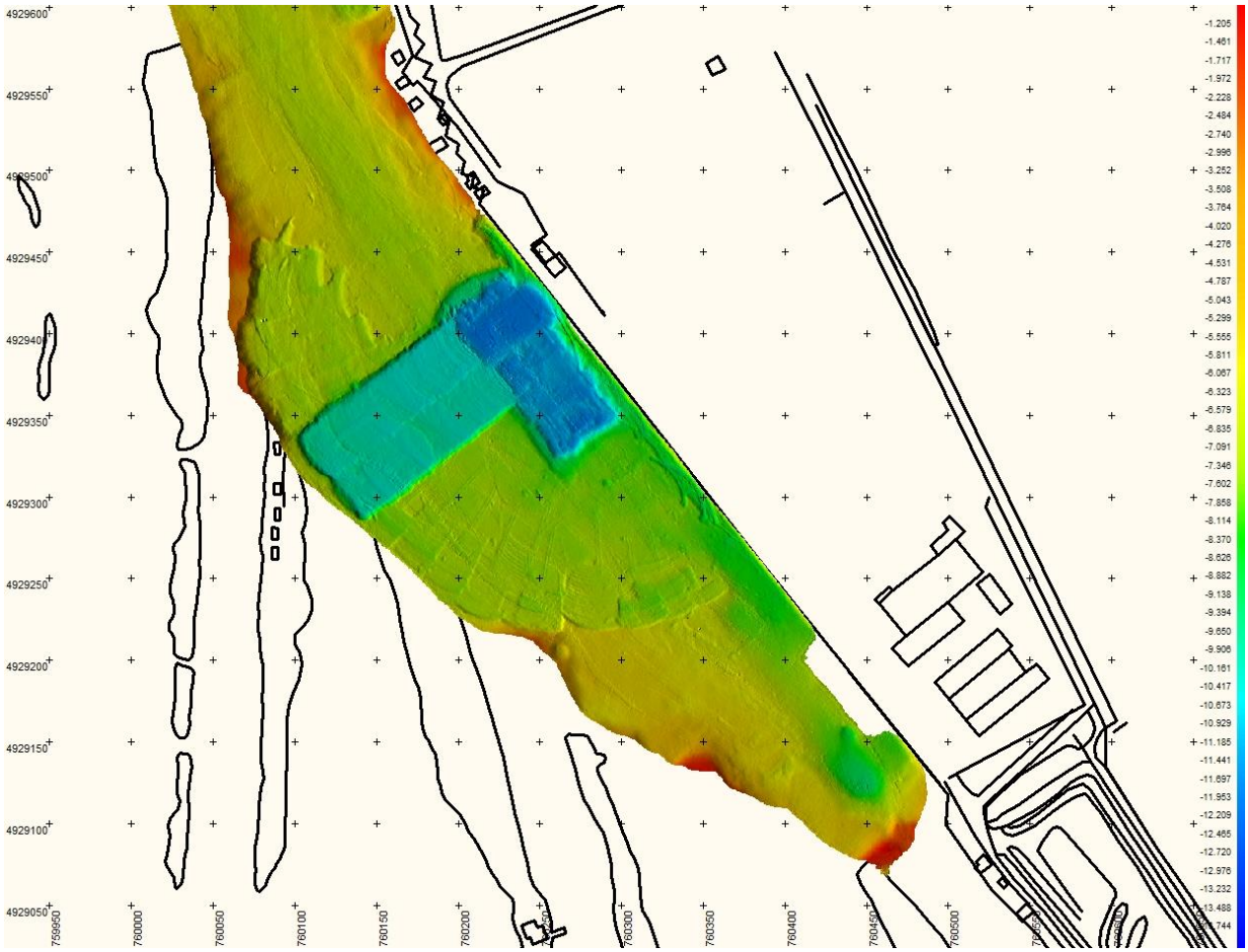


Image 4 – DTM Image

3.0 DEFINITION

- **Client** **Rosetti Marino Srl;**
- **Contractor** Subsea Fenix Srl;
- **Executor** Subsea Fenix Srl;

4.0 CONFORMITY DECLARATION OF SEABED AREA

On 14th May 2021 Subsea Fenix Srl has performed a detailed morphological survey of the Seabad Morphological survey for the verification of the seabed in front of ROSETTI YARD inside the Piomboni area (Port of Ravenna)

The entire work was carried out with the aim of mapping the seabed surface and identifying the presence of any targets / anomalies such as wrecks or debris, that could be dangerous or an obstacle to the clear navigation and safe approach to the Rosetti jetty.

The survey inspection was execute by using a very High Fr3equacy Side Scan Sonar 1250 kHz) system combined with appropriate positioning system and software capable to recording, validate and analyse the acquired data. By making a series of dockside parallel line, spaced 25m, we obtained 100% of coverage of the seabed and 200% of data overlap.

The summary results obtained with the survey, did not report inside the on the seabed any targets, anomalies such as wrecks or debris, that could be dangerous or an obstacle to the clear navigation and safe approach to the Rosetti jetty.