



ENVIRONMENTAL REFURBISHMENT OF TIBI'S RESERVIOR

CONTRACT INFORMATION

ADMINISTRATIVE INFORMATION

TYPE OF CONTRACT:
Construction Project

CONTRACT NAME:
"Technical Assistance for the Drafting of the Landscape and Scenic Environment of Tibi's Reservoir and the Monnegre River"

LOCATION: Tibi (Alicante)

ESTIMATE: 90.924,03 €

WORK ESTIMATE: 1.640.440,20 €

CLIENT: Confederación Hidrográfica del Júcar.
Ministerio de Medio Ambiente, Rural y Marino.

DATE (BEGINNING - END): March 2010-December 2010.

TECHNICAL INFORMATION

Earth Movement: 4,449.67 m³

Riprap Protection: 135 m³

Fields :

Mediterranean Woodland: 18,078.30 m²

Riverside Woodland: 3,412.47 m²

Floating Islands 80 m²

Suitable trails: 2,333 ml

Wooden Walkways: 2 Units

Maximum Longitude: 36 ml

Recreation Surface Area: 2,200 m²

Masonry Wall:

Longitude 65.4 m

Maximum Height 4.2 m

Viewpoint surface: 544.58 m²

Parking Area: 841 m²

Visitor Reception Center: 180 m²

Photovoltaic Panels (For installation): 5.6 kW

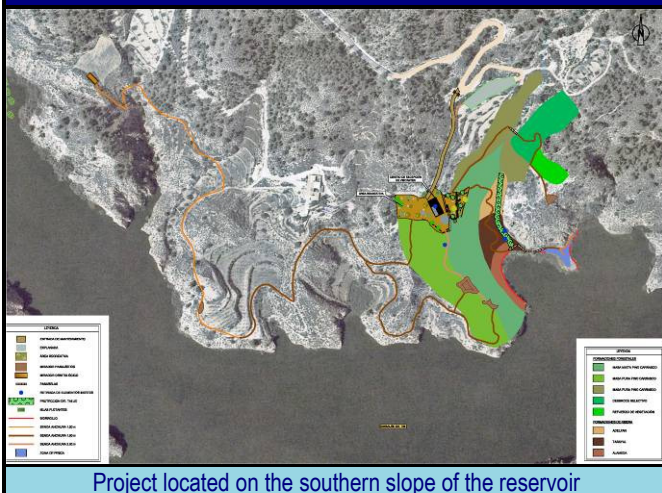
WORK OBJECTIVE

The main objective of the actions to be carried out at Tibi's Reservoir is to preserve and disseminate among the population the natural, environmental and cultural values of the area. For this purpose, the left margin of the reservoir, as it is the most conveniently located in the area, is to be made an orderly and adequate space for the enjoyment of the area in conditions of quality and safety.

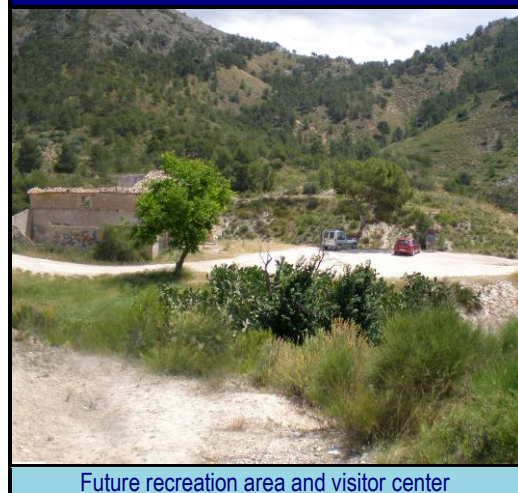
TASKS PERFORMED

- Topographic survey
- Geotechnical Survey
- Hydraulic modeling of the drainage network
- Ranking of pedestrian and road routes
- Calculate structures: masonry walls, buildings and walkways
- Generation of scenic viewpoints and birds
- Inventory of flora and fauna
- Stabilization of instable slope
- Approval of a recreation area
- Reforestation of the hillside slopes of the reservoir.
- Design of the Visitor Reception Center
- Refurbishment of fishing spots
- Facilities calculation: supply, sanitation, and light

GENERAL PROJECT PLAN



SCOPE OF WORK





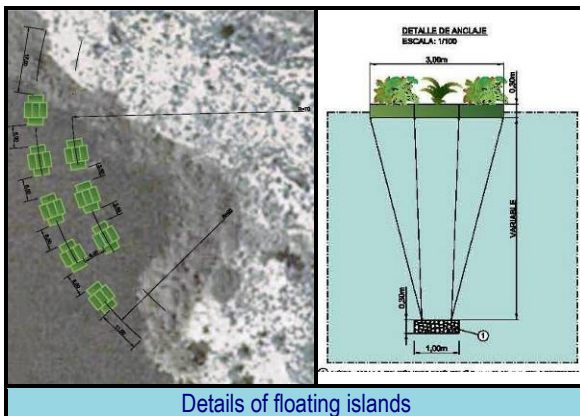
WORK DESCRIPTION



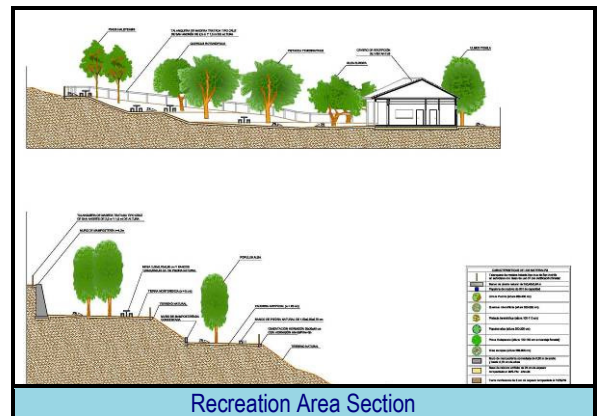
The **Tibi reservoir** is between the Mos del Bou and La Cresta Hills; constructed between 1580 and 1594, it is one of the oldest reservoirs of Europe. A series of actions are aimed to improve the landscape and environment and its use to the public in order to develop recovery of the landscape.

The actions designed to improve the reservoir's environmental conditions are centered around the reforestation on the reservoir's hillside slope using Mediterranean species, both on the forest and riverside. This provides stabilization of the high unstable slopes through restitution of the natural channel of the drainage network and the application of bioengineering techniques (fiber rolls and floating islands) that improve the potential of the habitats located near the water surface.

In terms of actions to improve public use, the actions defined in the Project allow a distributive use of the location due to improving road access at this location, refurbishment of a recreational area, organization and signage of pedestrian routes, the accessibility improvement to fishing spots and the creation of scenic and ornithological viewpoints. At the same time, the visitor's knowledge about the area will increase through the renovation of the Alcomia House into a Visitor Reception Center.



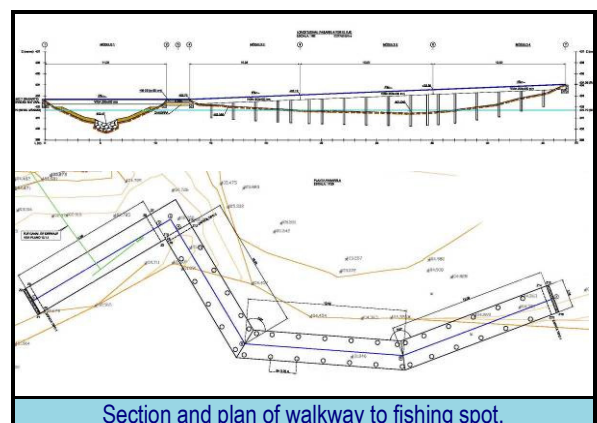
Details of floating islands



Recreation Area Section



Floor and Elevation Plan of the Visitor Reception Center



Section and plan of walkway to fishing spot.