

REHABILITATION DUE TO UNDERMINING IN VILLALOBOS

VILLA LOBOS - VILLANUEVA - Guatemala



TYPE OF PROJECT

Reinforced Soil Walls And
Slope Reinforcement

YEAR OF CONSTRUCTION

2023

CLIENT

CODICSA

CONTRACTOR

Ing. Fernando Salguero

DESIGNER

PRIVADO

PROD. RELATED

TerraMesh (1942 Sqm), Gabions (1020 Sqm), MonoAxial GeoGrids (37830 Sqm), Nonwoven Geotextiles (14599 Sqm), Drainage Geocomposites (180 Sqm)

Challenge

There is a significant erosion issue posing a risk to the stability of the area. Due to the erosion caused by a transverse culvert, the safety factors of the slope are compromised, exacerbating the situation. Additionally, the presence of a river at the base of the slope, flowing

into the southern basin of Guatemala, exacerbates the problem due to flooding and ongoing rains that continue to erode the area. A protective structure with metal mesh DT is required to safeguard the integrity of the infrastructure.



Before the construction



Starting of the works

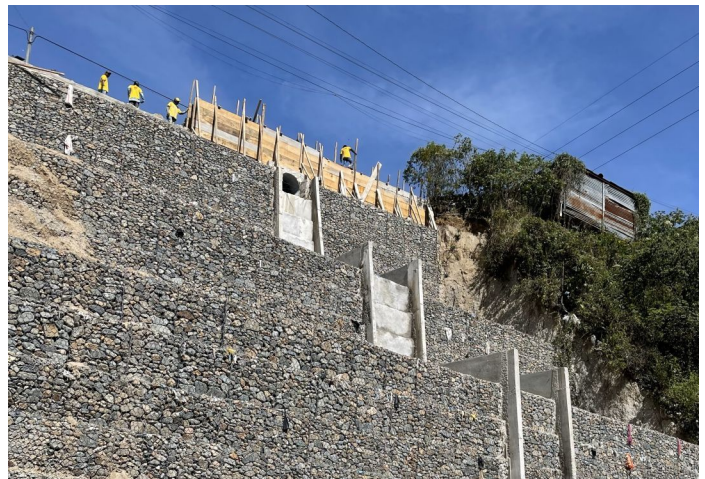
Solution

An environmentally sustainable engineering solution will be implemented. Technologies such as Terramesh System and Macgrid WG will be used to stabilize the slope. Additionally, gabions will be constructed at the base of the slope to protect it from the culvert and river floods, ensuring a long-lasting and environmentally

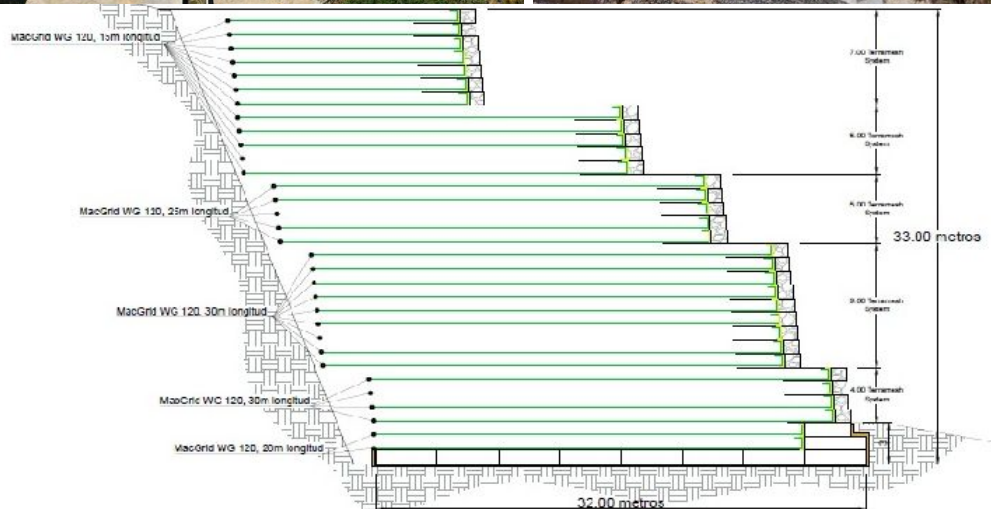
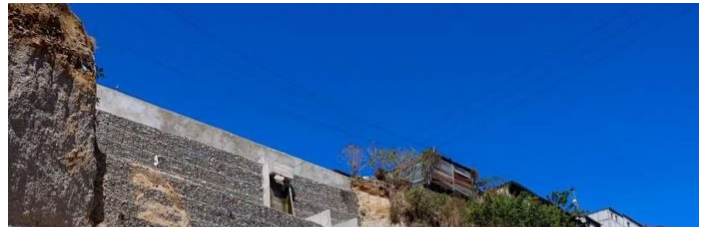
responsible solution. This comprehensive strategy not only efficiently addresses the problem but also guarantees the preservation of the environment and the well-being of over 1,500 benefiting families, demonstrating a committed approach to sustainability.



During the construction



During the construction - 2



Technical Design



OPEN GOOGLE MAPS



OPEN GOOGLE EARTH