



PROJECT: CONTAINER WAREHOUSE
LOCATION: POINT LISAS, TRINIDAD
OWNER: RED CAP DESIGNS
CLIENT: RED CAP DESIGNS
SECTOR: INDUSTRIAL
PROJECT VALUE: TT\$10m
PROJECT COMPLETION: Sep 2008

Project Description

This project consisted of the structural analysis and design of warehouse and office building floor to provide storage space for grain and rice storage, as well as the provision of office areas for staff and workers.

The overall project specifications were as follows:

- 1,258m² (13,500sf) of combined office and warehouse space
- 390 m² of warehouse space on an elevated level to allow for container loading and offloading, provision of mezzanine flooring for additional goods storage
- 868 m² of adjacent office space on four levels

Our role

- Conduct a detailed review of the structural and framing configuration to accommodate the Client and end-user requirements for a complete office and warehouse facility
- Carry out structural analysis and design of the main structural steel frame, reinforced concrete foundations and supporting structures to meet code requirements
- Designed for seismic and hurricane loading as per UBC requirements
- Frame analysis and design completed to BS5950, BS8004, ASCE07-05 and BS8110
- Provide steel re-iteration and value engineering to minimize material requirements and reduce structural frame costs

