



Government of the Cook Islands INFRASTRUCTURE COOK ISLANDS

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File Ref: 2017.01 Palmerston Island Cyclone Shelter

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Palmerston Island Cyclone Shelter Project

SURVEY INFORMATION REQUIRED

The activities listed below are to provide guidance with regards to the design of the Palmerston Island Cyclone Shelter.

1. Topographic Survey, According to the 2003 Feasibility Report, the land area allocated for the Cyclone Shelter was **2,265m²** (approx. half acre). As the site is now changed we would therefore require a topographic survey for the new site capturing all relevant land features, comprising:
 - a. Vegetation; capture all trees within the land boundary also extend a further 50m outwards from the boundary in all directions. If possible to define each tree and provide estimated heights.
 - i. **Purpose:** This information will gauge the risk to the Cyclone Shelter from nearby trees, help develop guide for minimum set-back distances.
 - b. Buildings; capture all structures within 100m of the cyclone shelter site, estimate conditions if they pose a risk to the new cyclone shelter such as flying debris.
 - i. **Purpose:** Similar to the trees, derelict structures pose a serious risk to all surrounding areas.
2. Elevations; please provide elevation (reduce levels) along with the general survey info (bearing and distance) for all boundary pegs. Please also carry out spot heights along the cyclone shelter property in a 10m by 10m grid, also spot heights along the proposed road through to the harbour or nearest beach.
 - i. **Purpose:** The ground elevation will assist with defining set-heights for the new cyclone shelter.
3. Local Knowledge; please obtain from local residence any other useful information, of importance:
 - a. Extent of wave run-up from past cyclones, locate and identify on topo map
 - b. Direction of damaging winds and general winds
4. Datum; All survey works to be reference to survey office datum.

Meitaki,



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