

J Raglan Navigation Beacons Height Restriction Plane

J1 Introduction

Three leading navigation beacons are in place in the Raglan Harbour (Whaingaroa). These navigation beacons are registered on the New Zealand Maritime Charts and are used by boats to safely navigate across the Raglan Harbour bar. Developments in Raglan have indicated the possibility of the beacons being obscured and no longer visible and useful for navigation. To ensure the harbour bar leading lights and beacons are protected from land use activities, it is considered prudent to take steps that will enable the navigational aids to remain visible and useful.

J2 Positioning of the Beacons

The seaward beacon is located in the sandhills at the harbour shore behind the motor camp with a red light to the front and near the apex of the triangular structure. The middle beacon is located on an elevated site behind the Police Station in Nero Street with a red light to the front and near the apex of the triangular structure. The landward beacon is located on an elevated site in Long Street. A precision electrical light (PEL) is located to the front and below the landward beacon, and is a directional light shining down the beacon line and over the safest crossing point of the Raglan Harbour bar.

J3 The Height Restriction Plane

To preserve the visibility and utility of the beacons a height restriction plane has been defined. This enables the designers of potential developments to determine when a proposed development might breach the height restriction plane and potentially obscure the beacons or part of a beacon.

J3.1 In Front of the Seaward Beacon

There are no concerns in regard to this area as it comprises seashore and water.

J3.2 The Area Between the Seaward Beacon and the Middle Beacon

This area comprises the motor camp, reserve and playground. Development in this area is controlled by the Waikato District Council.

J3.3 The Area Between the Middle Beacon and the Landward Beacon

This area is over land, encompassing both business and residential areas. There are some elevated sites affording good views of the harbour entrance. Visual inspection showed that a plane containing a line from a point below the precision electrical light on the landward beacon to a point below the light on the seaward beacon would define a suitable height restriction plane over this area which would enable the visibility and utility of the beacons to be maintained. A point 1 metre below the above-mentioned lights was considered suitable. In the case of each beacon a theoretical point at the centre of the base of the beacon, with a height 1 metre below that of the respective beacon light, has been determined. The marks are considered theoretical because the positions are not marked.

J3.4 Definition of the Height Restriction Plane by Survey

Survey investigations were undertaken to determine positions and ground points in the area of the proposed height restriction plane. These points are recorded in the survey control data attached. Heights and coordinates were determined in terms of the Raglan fundamental (B4BT) and checked onto other available marks in the area. Positions and heights were established on a number of new marks in and about and adjacent to the height restriction plane in order to determine indicative heights to the plane. The definition of the height restriction plane has been described in descriptive

terms only. Survey data is provided but should be verified before use (refer figure 2).

J3.5 Description of the Height Restriction Plane

An inclined plane extending from a theoretical point at the centre of the base of the landward beacon, with height 1metre below the level of the PEL light tube at the front of the beacon to a theoretical point at the centre of the base of the seaward beacon, with a height 1metre below the level of the top of the light box on the front of the seaward beacon. The plane extends 5metres horizontal and either side of the theoretical point at the landward beacon, and 70metres horizontal and either side of the theoretical point at the seaward beacon (refer figure 1).

Figure 1 Raglan Navigation Beacons - Height Restriction Plane

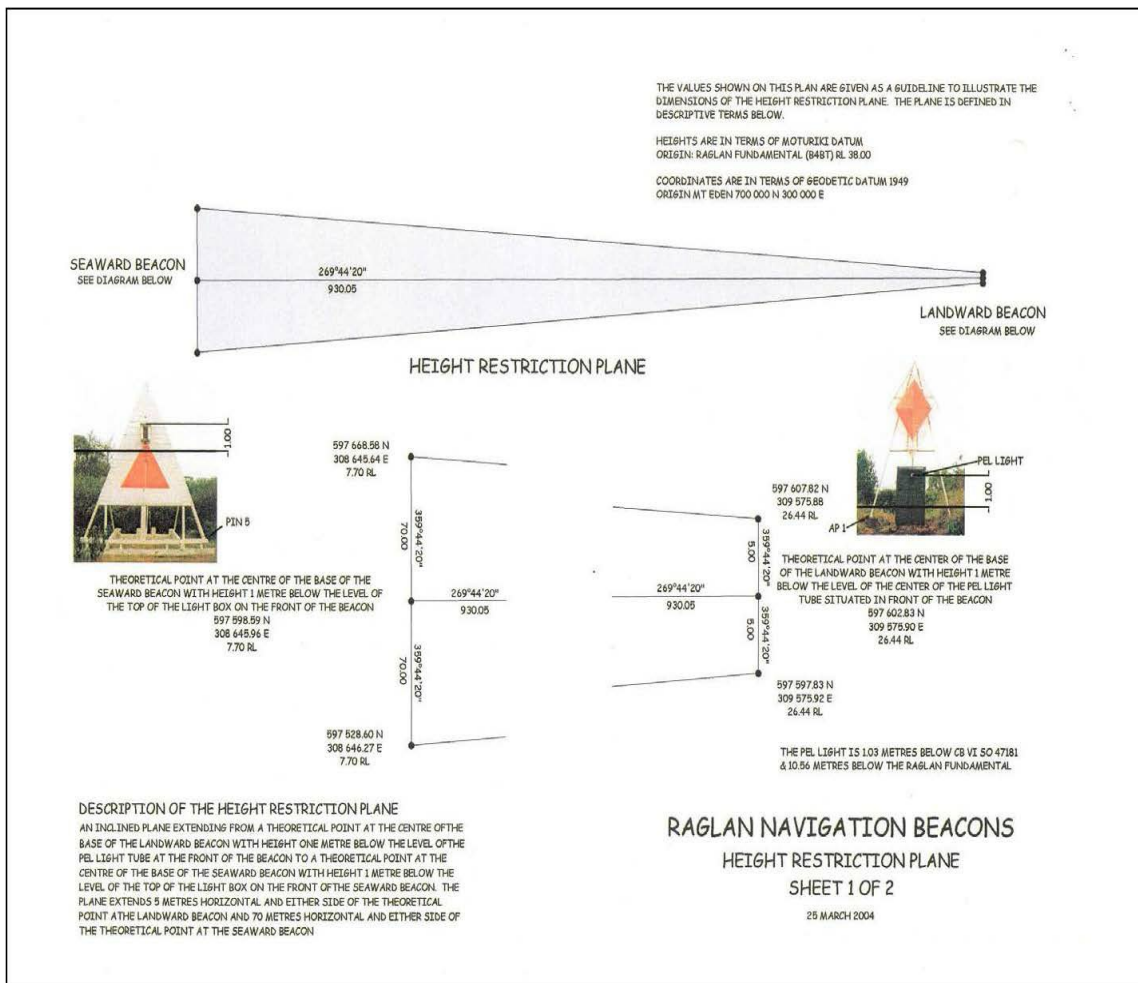


Figure 2 Raglan Navigation Beacons - Survey Control

Waikato District Plan - Waikato Section

