

1.4 SITE CONSTRAINTS

The following site constraints have been taken into consideration during the preparation of the General Aviation layout:

- Airport Security
- Airport Height Constraints and Obstacle Limitation Surfaces.
- Airport Flight Path and Safety Zones.

The above mentioned site constraints were considered in the planning and designing of General Aviation (MROs, FBOs) Area and have the major impact on the flexibility of the adopted planning approach.

The General Aviation Area has direct access to the Airfield due to its operational requirements. Special security measures concerning this area are taken into consideration while planning and designing this area.

1.5 DESIGN APPROACH AND PRINCIPLES

The five basic principles used in the General Aviation master planning are:

- Acknowledge contextual constraints and address site limitations
- Provision of necessary support facilities.
- Direct access provided to each MRO and FBO plot.
- Necessary support/safety facilities and utility services.
- Safety and security concerns.

1.6 LAND USE DEVELOPMENT CONCEPT

The General Aviation Area consists of MROs and FBOs area, Executive Jet Terminal Area and Opened and Covered Aircraft Parking. The MROs and FBOs hangars area will be used for the maintenance, repair and overhauling of aircrafts. It will be the major source of revenue generating activities for General Aviation Area. The FBOs will provide ground support service to the adjacent Executive Jet Terminal area along with other maintenance related services. The entire MROs, FBOs area will accommodate 5470 employees, staff and executives working per shift on its completion. The MRO and FBO area will be provided with fire fighting station and security measures to ensure the safe working environment in hangars.

The MROs and FBOs area shown in Figure 1.3 is mainly divided into three categories of plots such as:

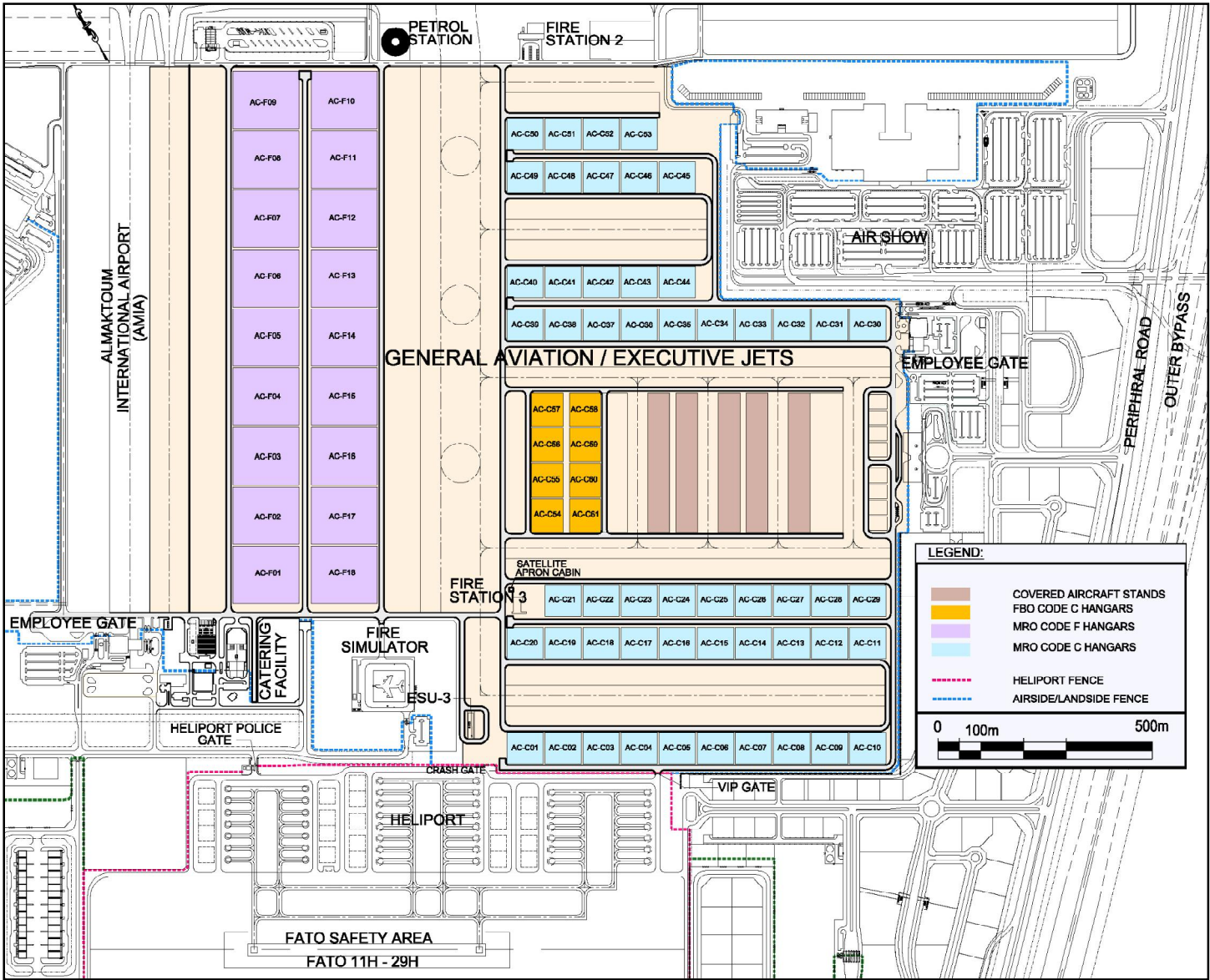


Figure 1.3: General Aviation Parcellation Plan

- a. Code "F" plots with plot size of 145mx166.75m covering an area of 24178.75 Square meters.
- b. Code "C" plots with plot size of 80mx92m covering an area of 7360 Square meter.
- c. FBOs (Fixed Base Operators) plots close to executive jet terminal area with plot size of 80x85 m covering an area of 6800 Square meter.

In addition to these three categories of plots the executive jet terminal area and covered and opened aircraft parking are also planned in the General Aviation area.