AIRPORT PLANNING AND DESIGN

RUNWAY AND TAXIWAY RECONSTRUCTION AT SZENTGYÖRGYI DEZSŐ AIRBASE KECSKEMÉT

Client:
Defence Economic Bureau, Ministry of Defence

Features:
Asphalt shoulder along the runway: 36 200 m^2
New joint filling on concrete surface: 56 300 m
Repaired surface imperfections: 860 pcs
New concrete pavement for runway end safety areas and new taxiway connections: 25 500 m^2
New asphalt top layer: 29 200 m^2
New or refurbished markings: 16 100 m^2

Concrete pavement:
Load bearing concrete pavement 22 cm thick on runway end safety areas and 33 cm thick on new taxiways, 5.00 m x 5.00 m slabs.

Runway marking
Airfield ground lighting and modernization of transformer station apparatus
Complex drainage system for the northern part of the Airbase connected to an open ditch outside the area.

Time of design: November 2018 – February 2019

Services:
Preparation of design for approval and construction design

The following works were carried out in the framework of comprehensive pavement reconstruction works at the MH (Hungarian Army) 59 Szentgyörgyi Dezső Airbase:
Repair of runway surface defects, filling of joints with new technology and more resistant material, construction of shoulders. The existing asphalt runway end safety areas were replaced with concrete pavements.
On the north side of the runway, four new 45 m long concrete paved taxiway sections were completed in preparation for later development.
The wearing course of the asphalt-paved taxiways was replaced.
As part of the investment, the markings in the concerned air traffic areas were renovated, the entire airfield ground lighting network of the runway was renewed, new primary and secondary cables were installed, and new shafts and their dewatering were completed. All of these now comply with ICAO CAT III/B requirements.
The drainage of the northern area of the air base was renewed and extended, as well as the equipment of two transformer houses.

During the project the following sectoral designs were completed:
- geodesy, geotechnical engineering
- airport design (pavement, markings)
- hydraulic engineering (pavement structure dewatering)
- high voltage power supply (airfield ground lighting)
- organization