



Sugar Storage Silo 10.000 t and 30.000 t

Planned by: **I.K.B.** Industrieplanung GmbH

Our Task:

Planning of two sugar storage silos with a capacity of 10.000 t and 30.000 t each.

The planning services included: detail planning of the system technique and pre-dimensioning of buildings as well as project assistance within building phase.

For the conditioning of the sugar before the packaging, the following new buildings for the new erected refinery in DaFeng / China were built:

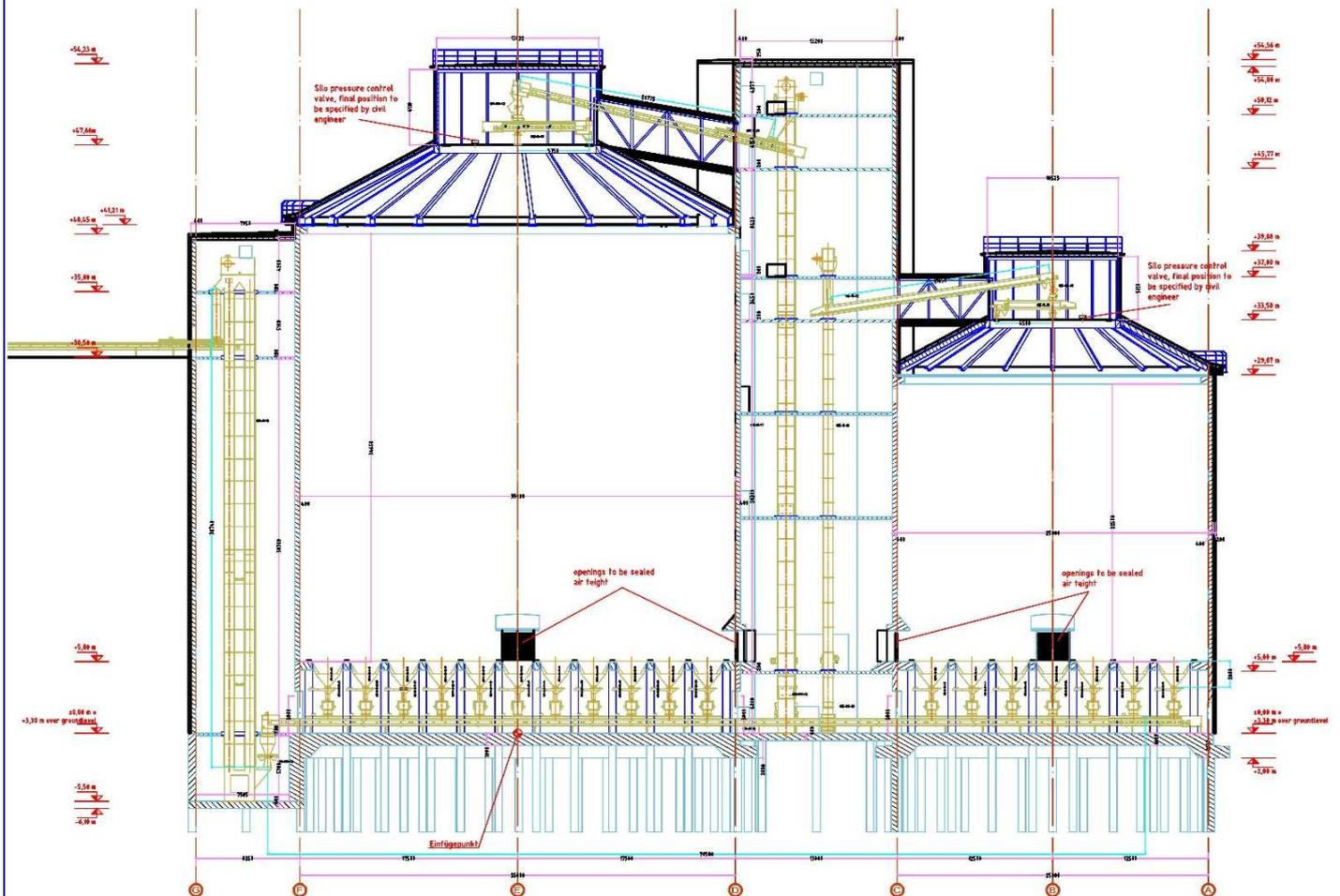
- sugar silos 10.000 t and 30.000 t in cylinder-design as mass flow silos
- the factory building, which belongs to the silos
- new conveyor bridges from the refinery via the silos towards the packaging, incl. the necessary elevator towers



Picture 1: Total view of the building object
(Silo dimensions: \varnothing 25,0 m x 39,1 m high and \varnothing 35,0 m x 54,2 m high)

Via a belt conveyor the corresponding sugar type is transported by trough belt conveyors to the elevator tower and from there led to the corresponding silo body, where it is stored and conditioned.

The infeed of the sugar into the silo is carried out by a rotating filling belt positioned in the silo dome house. The belt discharges via an insertion slot at the outer edge of the silo head-house into the silo body, what ensures an optimum filling rate.



Picture 2: Section drawing of silos

Because a simultaneous filling and discharge of the silos is requested, the silo floor was provided with multicones to be able to create an almost continuous mass flow. In the cellar, in transvers direction underneath the cones, trough belt conveyors are planned, which drop onto a lengthwise running trough belt conveyor, which transports the sugar further to the packaging. The cones are provided with valves, which can be correspondingly controlled.

A simultaneous discharge from both silos is not requested, because only one type of sugar is packed. With this also only a central discharge belt here is necessary.