Terminal 3, Guangzhou Baiyun International Airport, China

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The proposal T3 terminal of Baiyun Airport in Guangzhou will act the key supporting role for the future development of the transportation system in Guangzhou. As another hub compared to the T1 and T2 (un-built), the terminal will add the domestic captivity for the while airport and local airlines companies.

The key considerations of the project will focus the relationship to the local context, which included the materials, the plant and the warm weather. The steel, as the local construction material in these 30 years with the preferred in series of the constructions, will be main structure for the whole terminal. The first reason is the steel structure will provide the “light” formation for the long span construction. Another advantage is the steel structure is easy to be built in the construction process.

The local plant of kapok tree and flower will be key concept icon for the proposal terminal. As the main plant in Guangzhou, the kapok tree and flower not only presents the enterprise image for the Southern China Airlines, but also the cultural contents for the Guangzhou, which included the spirit of the positive, brave and hardworking. And the natural context of the tree and flowers will provides the main structural formations in the supports posts and the roofs for the project’s structural systems, as well as the whole master plan. The structure of the branches, petals, corollas and buds are the key icons for the main structure in the departure and arrival level.
The Local Site

Terminal 3, Guangzhou Baiyun international Airport, China

Current Site

Site Planning
- Phase 4 For Airport Developing
- Phase 3 For Terminal 3 (International)
- Phase 3 For Future Ground Transportation Center
- Phase 3 For Terminal 3 (Domestic)
- Phase 2 For Terminal 2
- Phase 1 For Terminal 1

Proposal Terminal Site

Site and Guangzhou City
- Distance: 32 kilometers
The Local Site

The Bird View Of the Site

The Coverd Range Of The Airline Companies

The Climate

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Guangzhou Average Monthly Precipitation

Guangzhou Average Monthly Precipitation

Average Humidity Graph for Guangzhou, China

Average Rainfall Graph for Guangzhou, China
The Panzhou international exhibition center

Guangzhou Stadium

Guangzhou Operal House

Guangzhou Tower
The Plan Of Arrival Level

The Plan Of Departural level
The Framming Plan Of Secondary System

The Roof Plan
The West Elevation

The Long Section
The Source of photos For the Sections Of Design Concept and locate Site

1. www.chinahights.com/guangzhou/weather.htm
2. www.travelchinaguide.com
4. www.guangzhoutravelguide.com
5. www.trekearth.com
6. www.guangzhouhotel.com
7. www.newsgd.com/specials/guangdongtoday
8. www.topchinatravel.com
9. www.architectmagazine.com
10. www.resonate-mp4.com
11. www.uq.edu.au