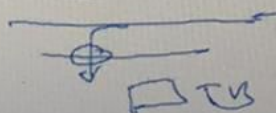
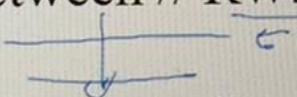
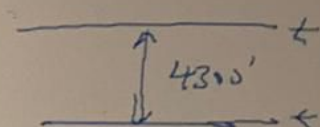


Runway Configuration: see table 16.3, and fig. 16.7 p.519-521

- Parallel runways need 700' spacing for VFR and 4300 for IFR for simultaneous landing
- Queen Alia (Amman) International airport (1.5 km or ~5000 ft) separation between parallel runways
- Angled runways are needed to continue use of airport at high wind conditions (wind rose), for all major airports
- Location of terminal is preferred between // RWs to eliminate crossing RW during taxiing
- Staggered parallel runway concept limits taxiing distance for landing and takeoff by operating one RW for landing and the other for takeoff.

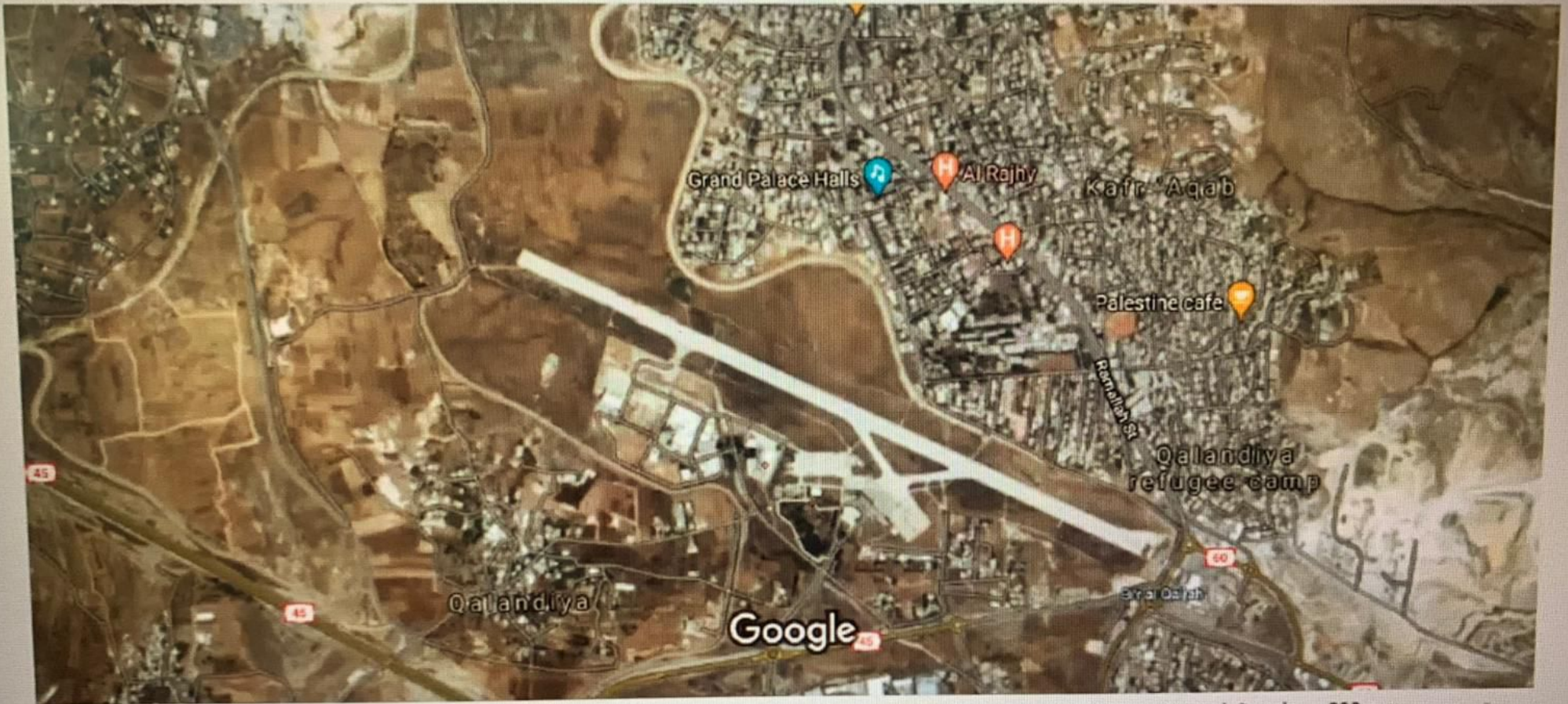




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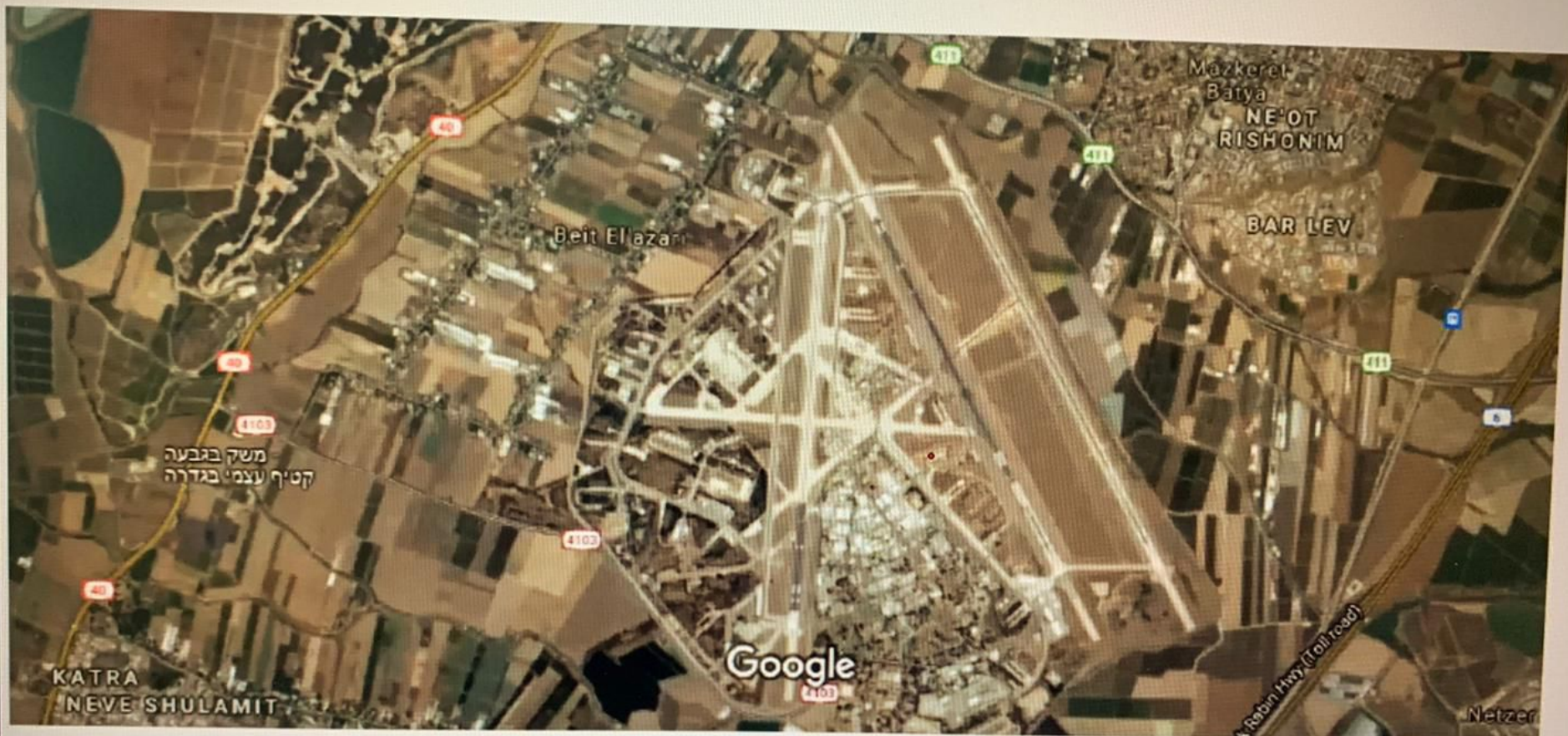
500 m

08/26 3660m



Imagery ©2021 CNES / Airbus Maxar Technologies. Map data ©2021 Mapbox, Google. 200 m

Length 1965 m, 30/12



03/21 2772
08/26 4062
12/20 3112

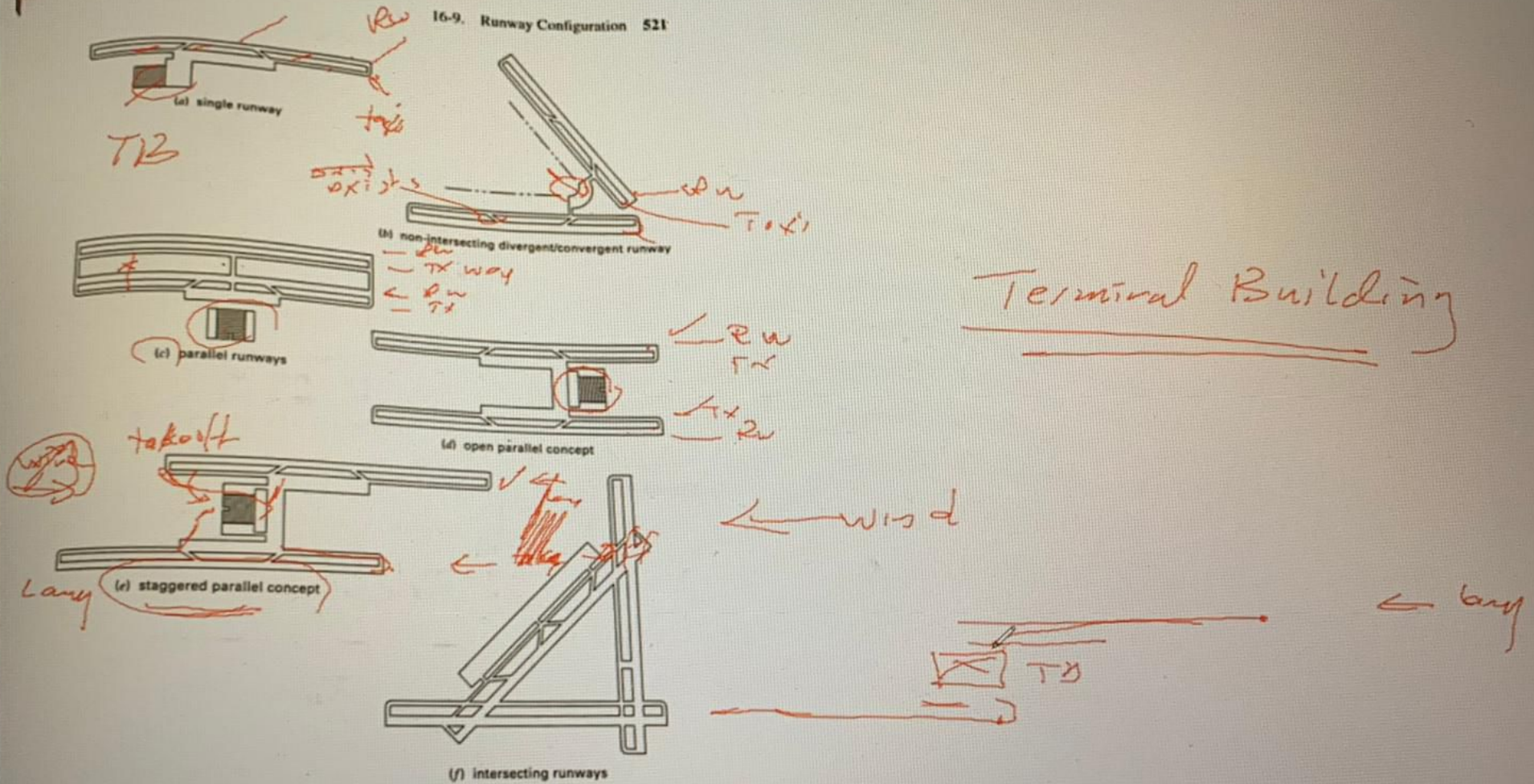


Figure 16-7 Typical airport configurations. (a) Single runway. (b) Nonintersecting divergent/convergent runways. (c) Parallel runways. (d) Open parallel runways (e) Staggered parallel concept. (f) Intersecting runways.

Airport Terminal Area

Consist of:

➤ Terminal building

➤ Land side:

✓ Auto parking

✓ Public transit queues and stops

✓ Inter-terminal transport

✓ Administration building

✓ Freight facilities

✓ Car rentals

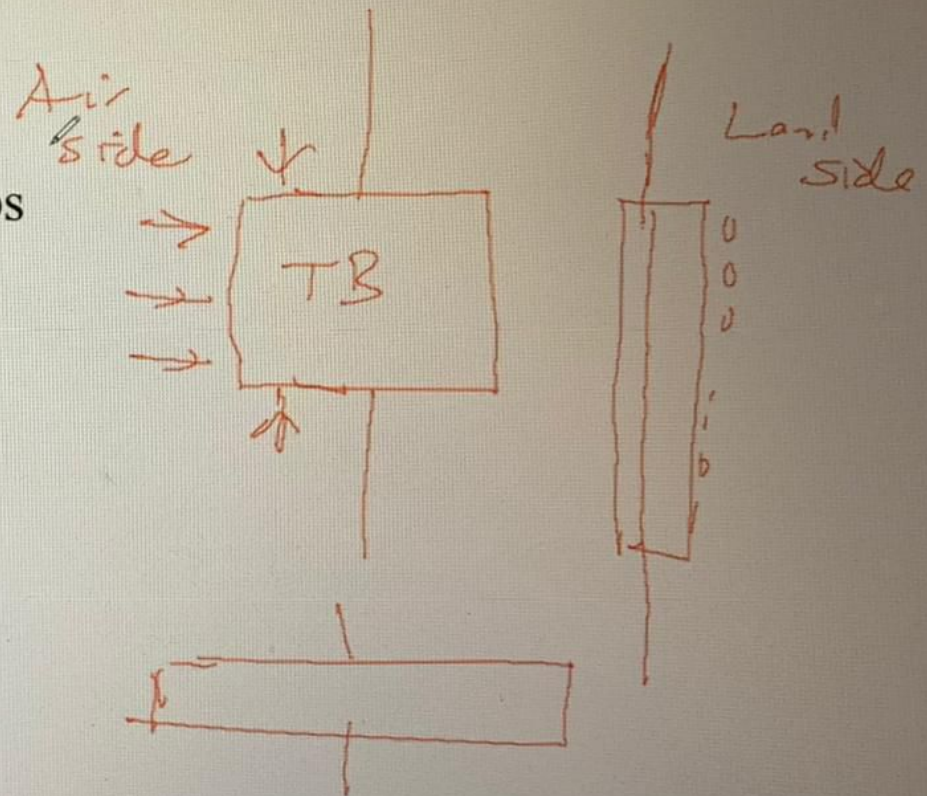
➤ Air side:

✓ Aircraft parking aprons

✓ Aircraft maintenance aprons

✓ Fueling station

○ Fire station



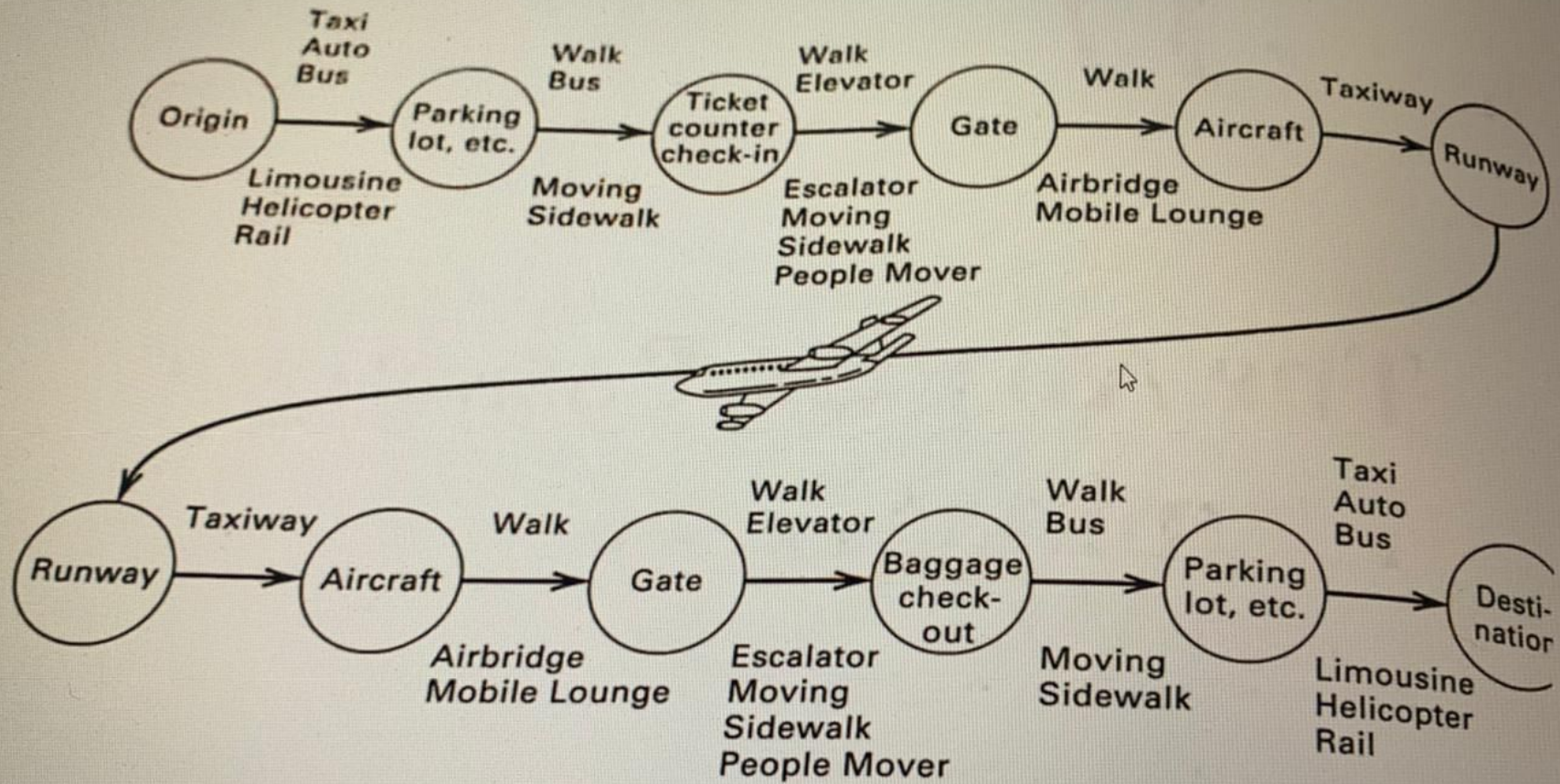


Figure 17-1 A typical air trip.

The weakest link in the chain controls. It should be the costliest component

The planning process should involve:

- The airport owner: government, municipality, private
- The national authority (Federal government)
- The Airlines
- The Concessionaires

Forecast for annual and peak periods demand for 20 years for items listed in p.527 are needed

Airport layout Concepts

Objectives:

- Minimize walking distance (parking, terminal, aircraft aprons)
- Minimize passenger, aircraft and automobile congestion
- ✓ ○ Separation of arrival and departures
- ✓ ○ Separation of national and international flights
- Separation of passenger and cargo facilities
- ✓ ○ Clear and easy process of enplaning and deplaning (arrivals and departures) of passengers (appropriate signing)

Baltimore
departures
arrivals
1B
1A
Lower

cargo building
facilities

