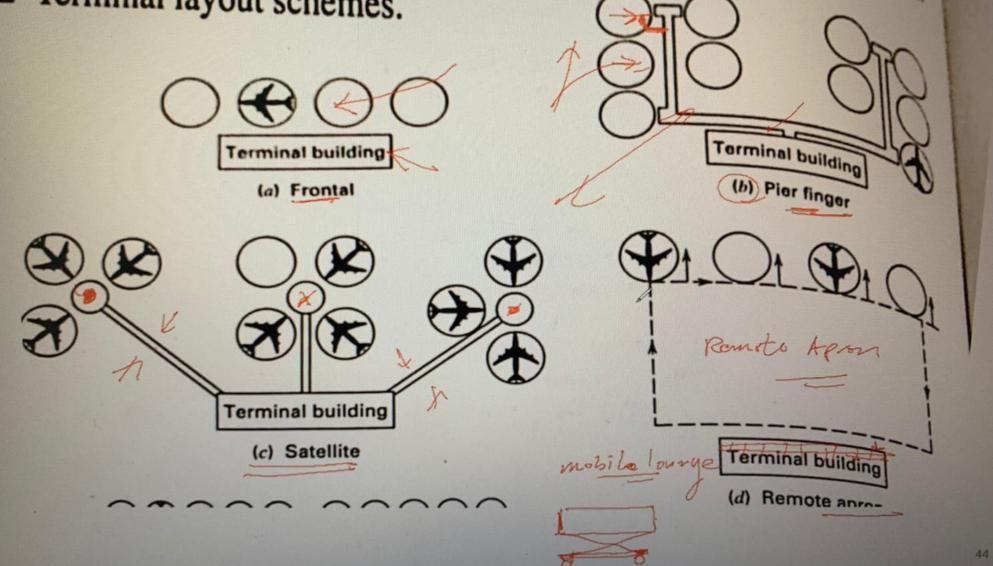
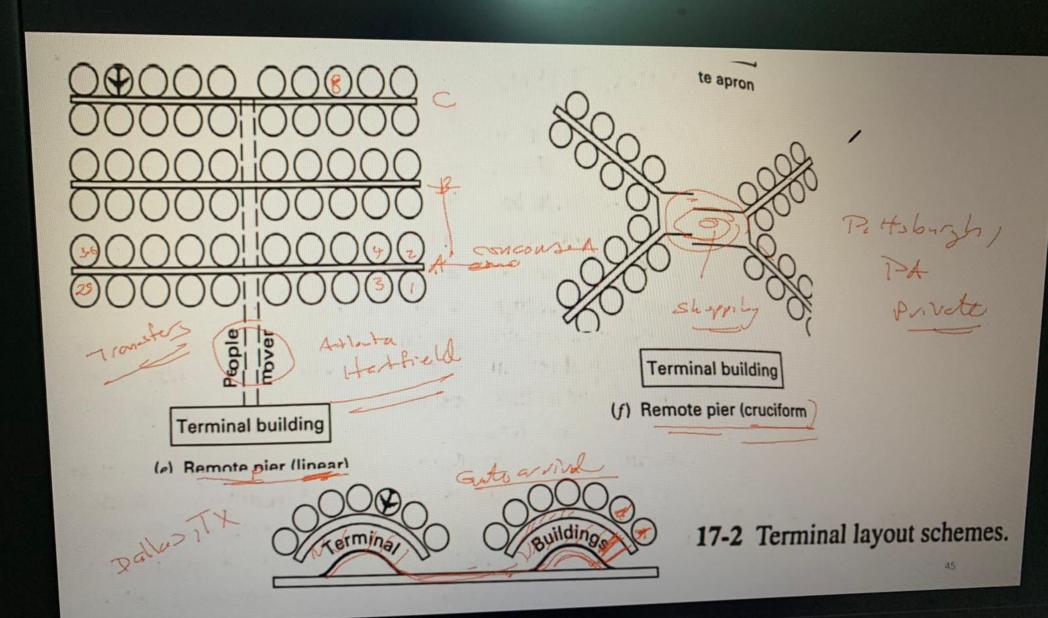
17-2 Terminal layout schemes.





Intra-terminal transport: within terminal. Average walking distance for transfers (US), ~ 1250 m, recommended ~ 300 m. Use of:

- o Moving sidewalks
- o Electric vehicles for handicaps

Inter-terminal transport: between terminals

- o Automatic vehicle system (Atlanta, Dallas- Fort Worth, fig. 17.5, p. 532)
- o Conventional buses (JKF)
- o Mobile lounge (Dulles, Jeddah, Baltimore)

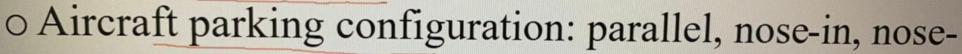
Automobile Parking

- Clockwise Circulation, one-way isles and less than 90 degree angle parking is preferred
- Curb space for loading and unloading (~ 100m curb length/ a million non-interlining passengers)
- o Maximum walking distance to terminal ~ 120 m
- o About 1000 parking spaces per a million annual passengers
- o Thus large parking garages are needed some larger than 10 000 spaces
- o Parking should be divided to categories:
 - o Short-term/long term
 - o Passenger, visitors, employees, car rentals, taxis, etc.,

Terminal Apron Space Requirements:

This is a function of:

o Size of stand position



out (by tractor)

o Number of stand positions

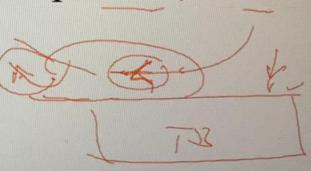
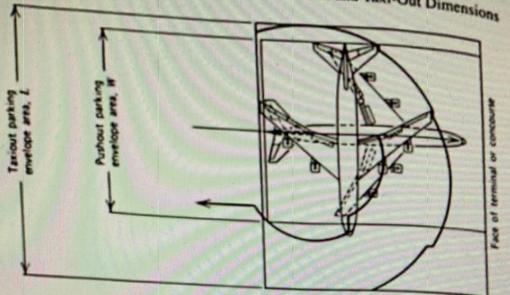


Table 17-1 Diagram and Summary of Push-Out and Taxi-Out Dimensions



Group A/C	Push-Out*		Area	Taxi-Out ^b		
	L	W	(yd²)	L		
A. FH-227 YS-11B BAC-111 DC9-10 B. DC9-21, 30 727 (all) 737 (all) C. B-707 (all) B-720 D. DC-8-43,	103 ft 1 in. 106 ft 3 in. 123 ft 6 in. 134 ft 5 in. 149 ft 4 in. 173 ft 2 in. 120 ft 0 in. 172 ft 11 in. 156 ft 9 in.	115 ft 2 in. 124 ft 11 in. 113 ft 6 in. 109 ft 5 in. 113 ft 4 in. 128 ft 0 in. 113 ft 0 in. 165 ft 9 in. 150 ft 10 in.	1319 1474 1557 1634 1880 2463 1507 3188 2627	148 ft 10 in. 171 ft 0 in. 130 ft 0 in. 149 ft 2 in. 149 ft 0 in. 194 ft 0 in. 145 ft 4 in. 258 ft 0 in. 228 ft 0 in.	W 140 ft 2 in. 149 ft 11 in. 138 ft 6 in. 134 ft 5 in. 138 ft 4 in. 153 ft 0 in. 138 ft 0 in. 190 ft 9 in. 175 ft 10 in.	Ast (1) do 23: 23: 22: 23: 22: 24: 44:
51 DC 8-61, 63 E. L-1011	170 ft 9 in. 207 ft 5 in. 188 ft 8 in.	162 ft 5 in. 168 ft 5 in. 175 ft 4 in.	3081 3882 3676	211 ft 10 in. 252 ft 4 in. 263 ft 6 in.	187 ft 5 in. 193 ft 5 in. 200 ft 4 in.	5 5
DC10 F. B-747	192 ft 3 in. 241 ft 10 in.	185 ft 4 in. 215 ft 8 in.	3959 5795	291 ft 0 in. 328 ft 0 in.	210 ft 4 in. 240 ft 8 in.	6

[&]quot;Including clearances of 20-ft wing-tip, nose to building; 30-ft group A and B, 20-ft group C and D, 10-ft group E and F.

^{*}Including clearance of 20-ft to other A/C and GSE: 45 ft.

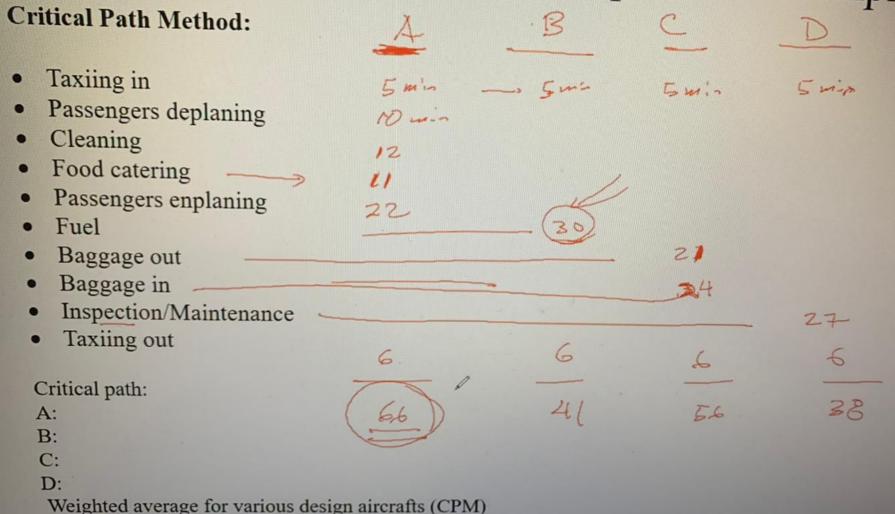
Number of stand position: depends on:



- o Aircraft type
- No. deplaning and enplaning passengers
 - Amount of baggage
 - Other service/ fuel, catering service, cleaning etc.
 - o Efficiency of personnel

51

Equations for planning purposes p. 535 + Example (CPM)



P. \$535 weight many coupery try Europen Stand occuping 66 20