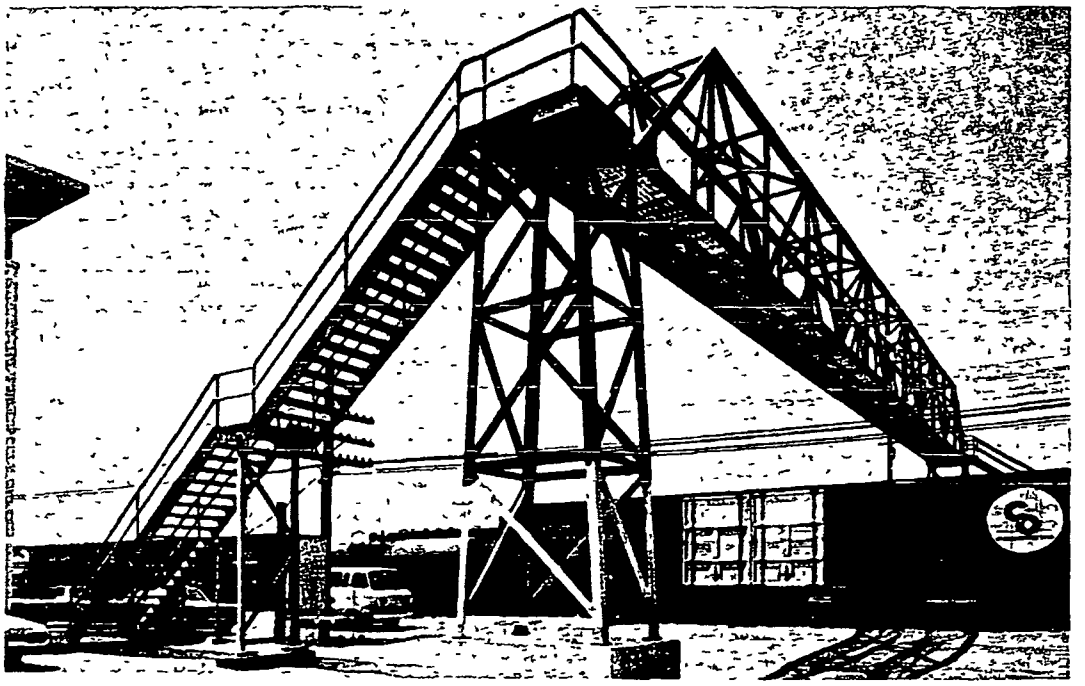

FIG 16-1 —A bridge provides safe crossover of a freight yard Be sure construction and personnel protection are adequate

*Courtesy Guardian Engineering & Development Co*

and health hazards

New developments may figure in the size of the plant site Some companies, anticipating increased use of air transportation, are allowing space for landing fields or heliports as they acquire new property Plans for such installations should include all necessary safety precautions

Fire prevention codes specify minimum distances between buildings according to their size, type, and occupancy Laws governing storage of explosives and of highly flammable materials specify minimum distances between manufacturing and storage facilities for various quantities of such materials, as well as minimum distances of the materials from adjoining property

Ample space for outdoor storage areas is essential When the area for storing such materials as steel, pipe, and lumber adjacent to shops proves insufficient, space must be provided elsewhere This necessitates added handling and transportation and increases both costs and accident risk

Parking lots are best located inside the plant fence for convenience, protection, and safety Since a considerable area may be necessary to accommodate employee and visitor cars, space requirements are important in site planning

In some cases, well located disposal areas for solid wastes also must be provided when a site is being laid out

Scale relief models of the site in addition to maps can be of much help to the planner in predesign, and will help in spotting potential safety problems

## Outside Facilities

In the planning of outside facilities, safety considerations must be kept in mind in order to reduce the future accident potential Here are a number of them