

摘 要

北苑大酒店位于中国北方的长春吉林市，是一个综合性的酒店结构，餐饮、娱乐、客房等设施齐全。占地 2,800 平方米，总楼面面积 35,000 平方米。建筑总高度为 79.00 米，地上 25 层，地下一层，地下一层用于水泵房、消防泵房、锅炉房等设施。地下室的两层包括游泳池、餐厅和游泳池等。一到四楼有大、中、小酒店客房和大小会议室，五层到十五层是公寓，十六至二十五层是越层公寓。

设计主要包括四个部分：室内供水系统、排水系统、消防系统和喷淋系统。供水将大楼分成三个部分。地下一层至地上四层为断面，直接通过市政管网供应。五楼至十五楼为中段，十六楼至二十五楼为高段，使用变频水泵为供水加压。排水系统把污水和废水放在一起。斜地板和标准地板采用独立的排水垂直管道。在一楼，水被单独排出，厨房的废水需要渗油，然后被排进城市污水管网。排水管安装管仅安装通风管道延伸到屋盖，其他安装通风管道不能延伸到屋盖的，采用侧墙通风。灭火系统由火塞系统和自动喷水系统组成。一是采用水平和垂直两种圆形管道系统，二是采用浇水自动洒水系统。在火灾发生的前 10 分钟，水由一个消防水箱供应，然后地下室的消防泵将被启动以供水。排水管道采用热镀锌钢管，消防系统采用热镀锌钢管。

关键词：给水系统；排水系统；消防系统

Abstract

Beiyuan Hotel is located in Jilin City, Changchun, northern China. It is a comprehensive hotel structure with complete facilities such as catering, entertainment and guest rooms. Covers an area of 2,800 square meters and a total floor area of 35,000 square meters. The total height of the building is 79.00 meters, 25 floors above ground, and the ground floor. The ground floor is used for pumps, fire pumps, boiler rooms and other facilities. The two floors of the basement include a swimming pool, restaurant and swimming pool. There are large, medium and small hotel rooms and meeting rooms on the first to fourth floors. The fifth to fifteenth floors are apartments, and the sixteenth to twenty-fifth floors are overstorey apartments.

The design consists of four main parts: indoor water supply system, drainage system, fire protection system and sprinkler system.

The water supply divides the building into three parts. The first floor to the fourth floor above the ground is a section that is directly supplied through the municipal pipe network. The fifth to fifteenth floors are the middle section, and the sixteenth to twenty-fifth floors are the high sections. The charging frequency pump is used to pressurize the water supply. Drainage systems combine sewage with wastewater. Oblique and standard floors use independent vertical drainage pipes. On the first floor, the water is discharged separately. The waste water in the kitchen needs to seep oil and is then discharged into the urban sewage network. Drainage pipe installation pipes only install ventilation pipes to extend to the roof, other installed ventilation pipes can not extend to the roof, ventilation using side walls. The fire extinguishing system consists of a fire plug system and an automatic fire blasting system. One is the use of horizontal and vertical two round pipe systems, and the other is the use of automatic sprinkler watering system. In the first 10 minutes of the fire, water is supplied by a fire tank, and then the fire pump in the basement will be activated to supply water. The drainage pipe adopts hot galvanized steel pipe, and the fire control system adopts hot galvanized steel pipe.

Key words: water supply system; Drainage system; Fire system

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