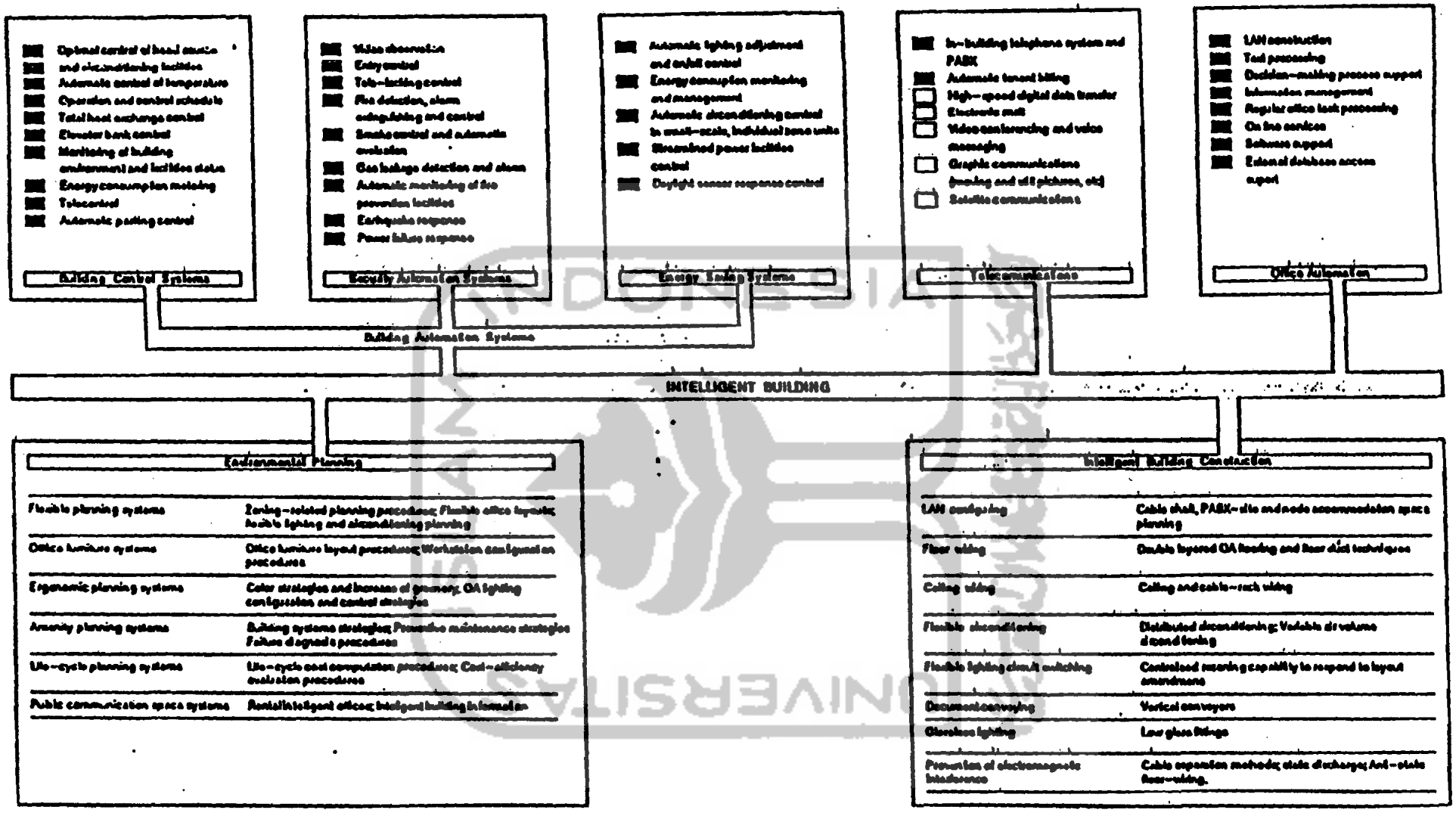
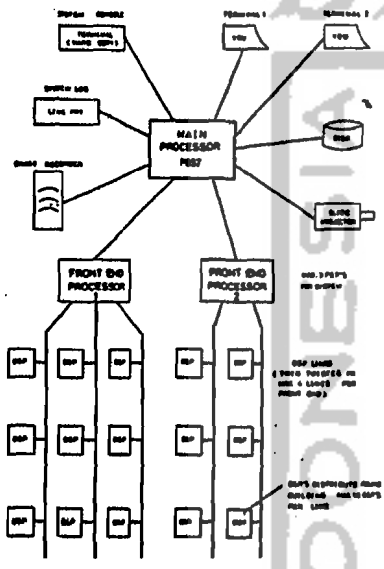
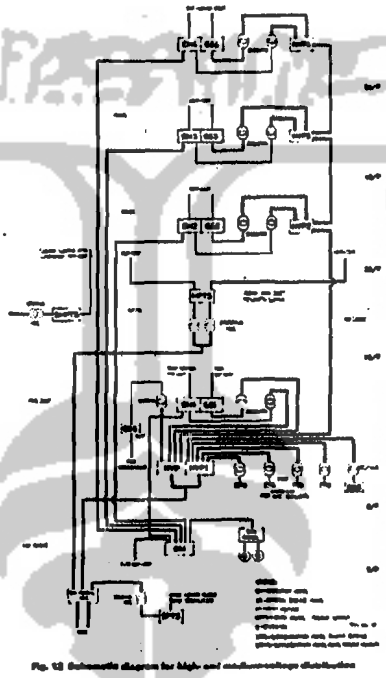


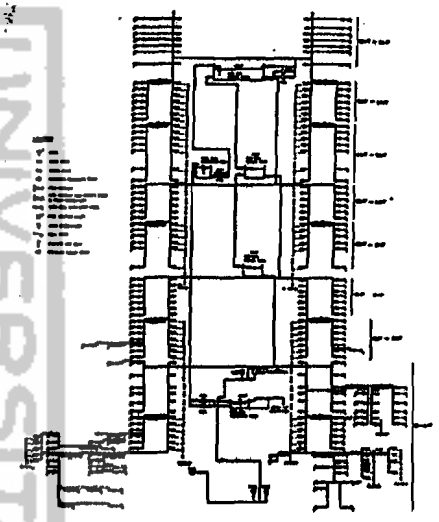
Sumber : SDR – 1989

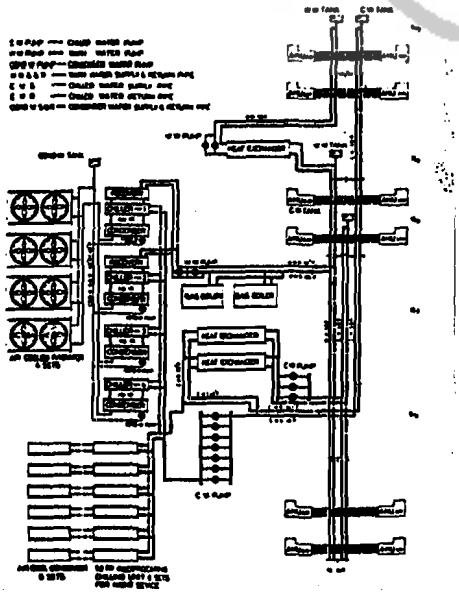
LAMPIRAN SISTEM-SISTEM
PADA SISTEM BANGUNAN PINTAR

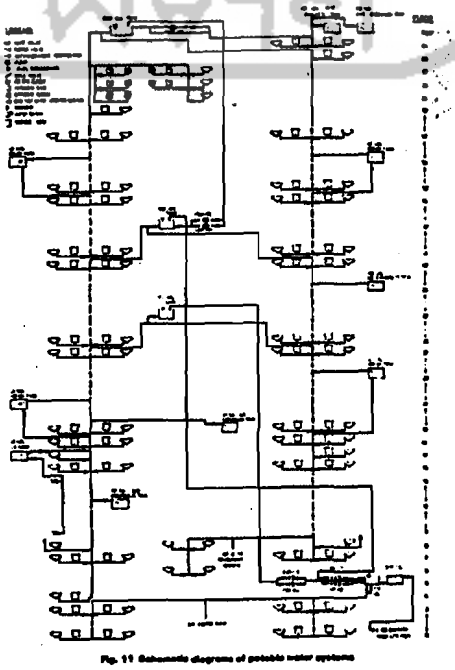
(Fig. 7) controls all building services automatically and is programmed for energy savings. Functions incorporated in the BAS include security, HVAC, lighting control, the electrical plant, fire fighting control, the potable and flushing water systems, the emergency/evacuation system, and the weather monitoring system.



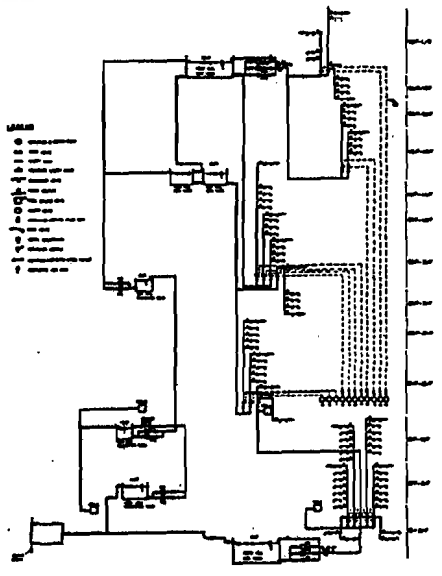


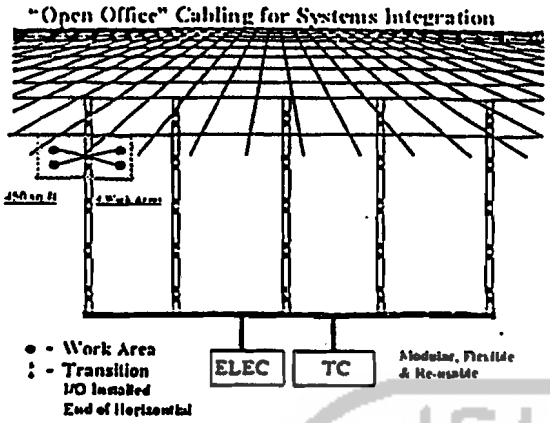


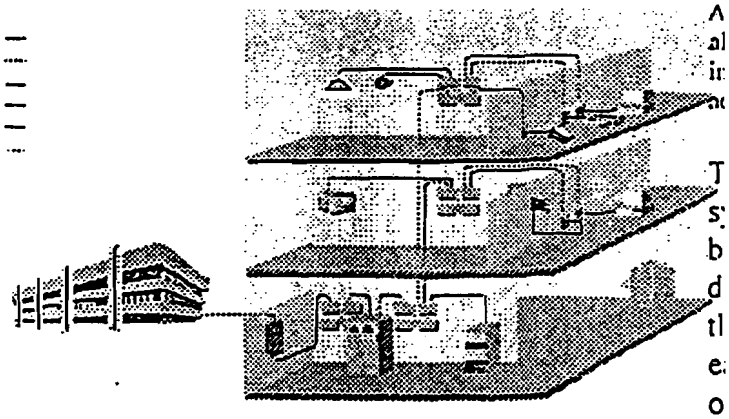


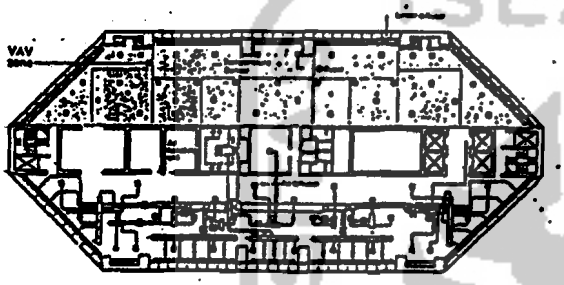


Since a four-pipe system (that is, separate chilled and hot water piping) is utilized, both cooling and heating facilities are available throughout the year. Basically, the entire building is air-conditioned by means of the systems outlined in Table 4.

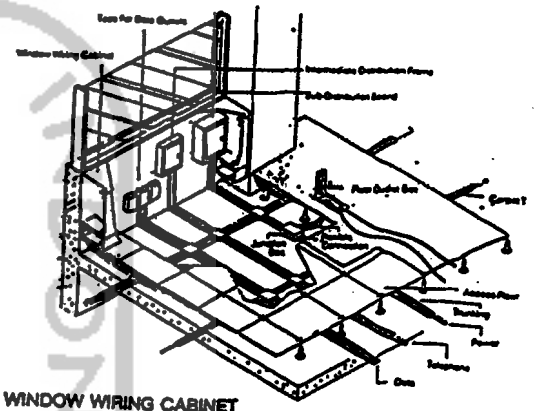




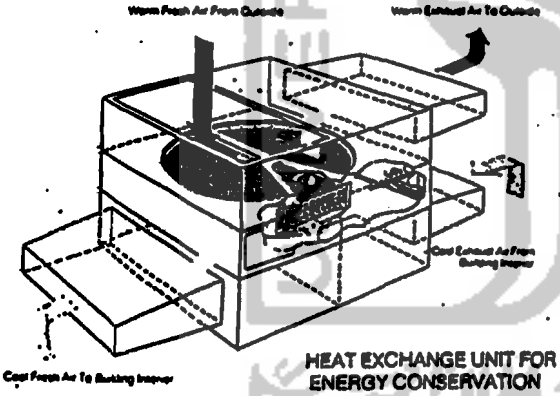




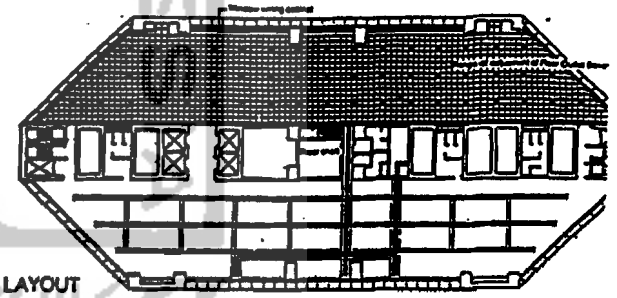
VAV & DUCTING LAYOUT ON TYPICAL FLOOR



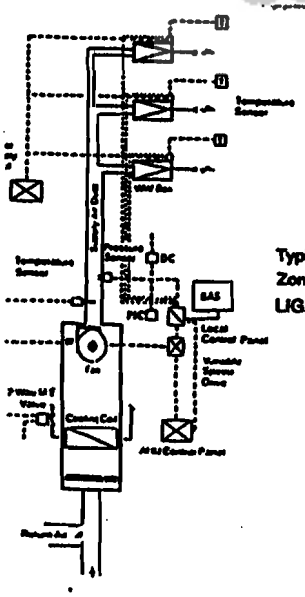
WINDOW WIRING CABINET
AND UNDERFLOOR TRUNKING



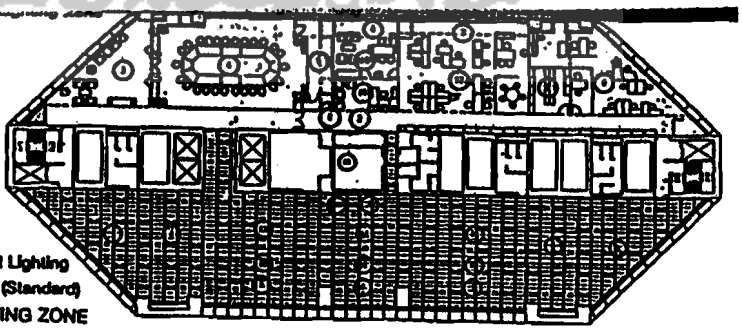
HEAT EXCHANGE UNIT FOR
ENERGY CONSERVATION



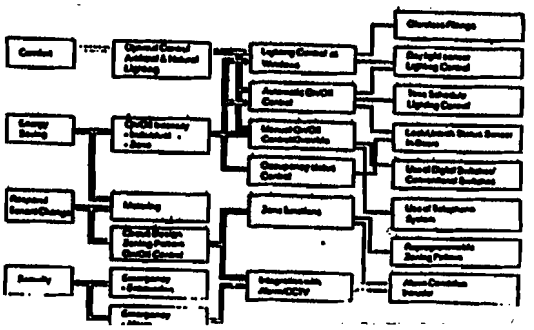
WIRING LAYOUT
Under floor trunking layout & Floor Outlet Box distribution

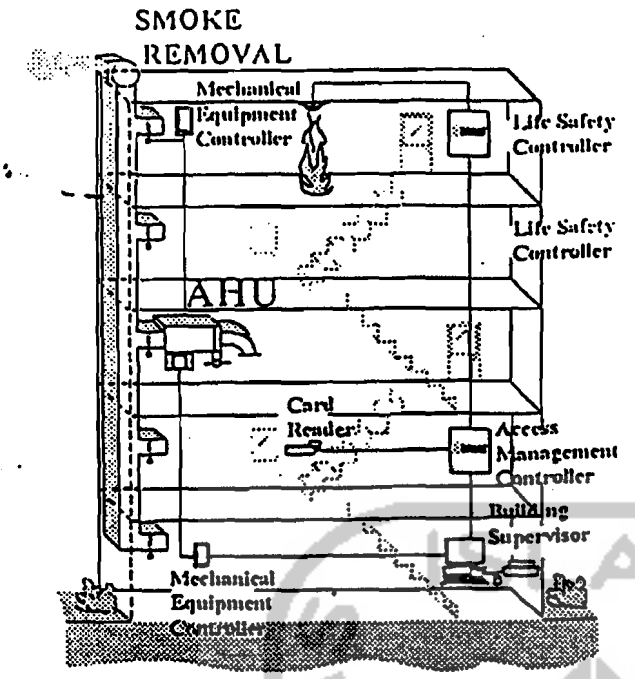


VAV CONTROL SYSTEM



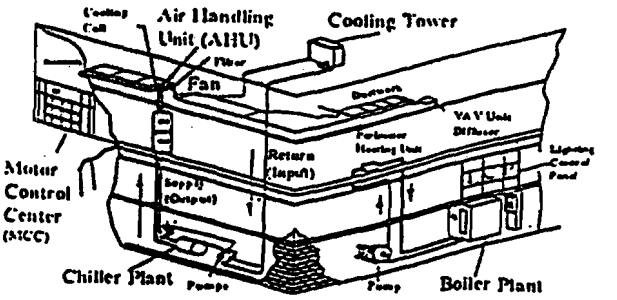
Typical Lighting
Zones (Standard)
LIGHTING ZONE





The Building System:

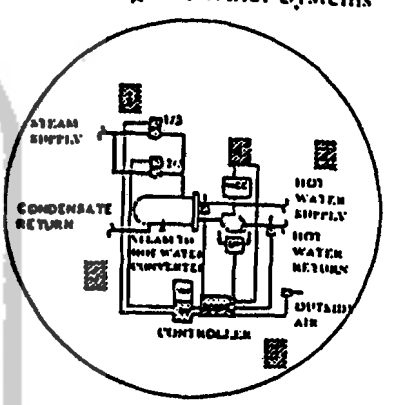
The Mechanical Equipment Areas of the Building Management Systems



HVAC: Heating Hot Water Systems

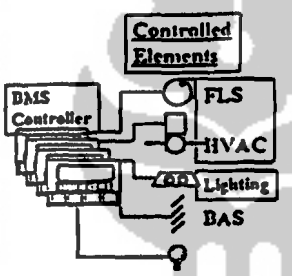
Wire Point Requirements:

1. Meter Circuit
2. Supply Temp
3. Outside Temp
4. Valve Control
5. Water Meter



Purpose

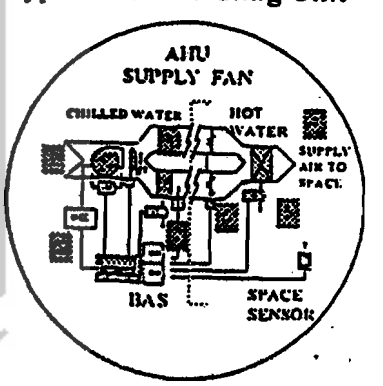
♦The purpose of a Building Management System is to provide a comfortable, safe, and efficient environment, by monitoring and controlling mechanical and electrical systems.

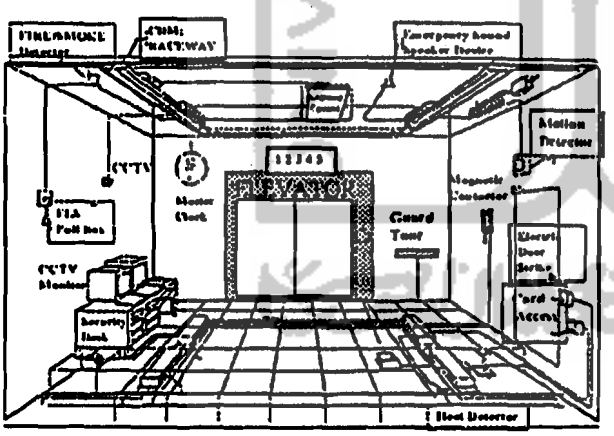


HVAC: Typical Air Handling Unit

Point Requirements

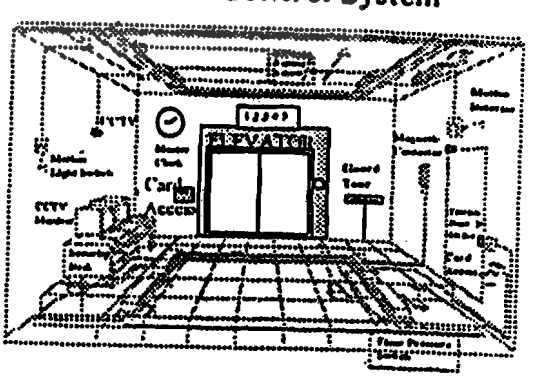
1. Return Air Temperature
2. Binary Filter Alarm
3. Valve Coil Control
4. Supply Air Temperature
5. Space Temp
6. Binary Airflow Sensor
7. Damper Control
8. Fan On/Off Control



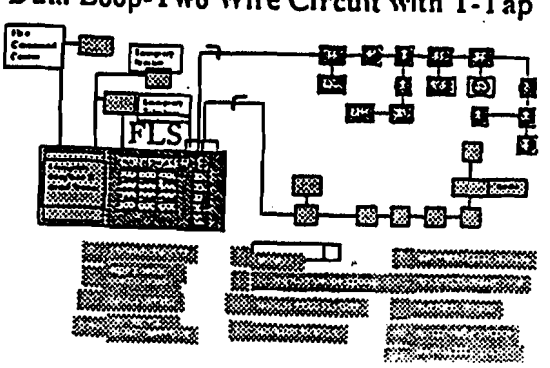


SECURITY SYSTEMS

Elevator Control System

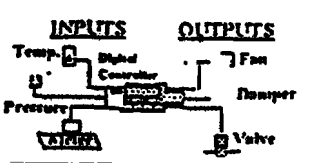


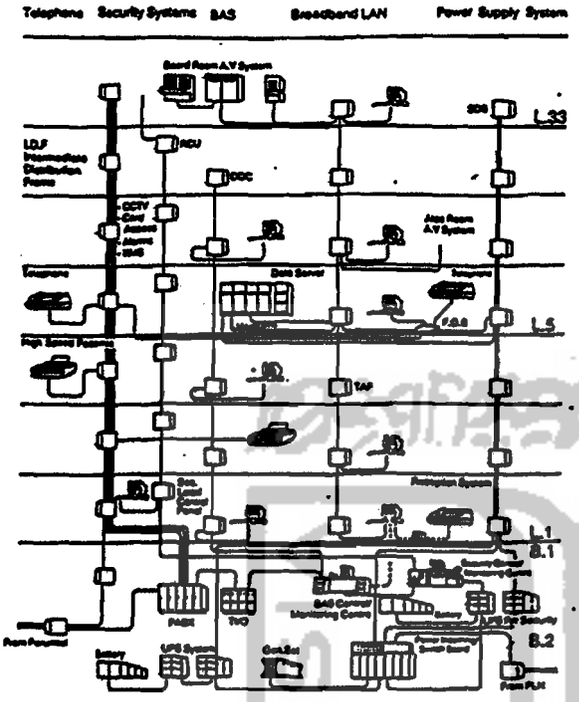
Intelligent Fire Management System
Dual Loop-Two Wire Circuit with T-Tap

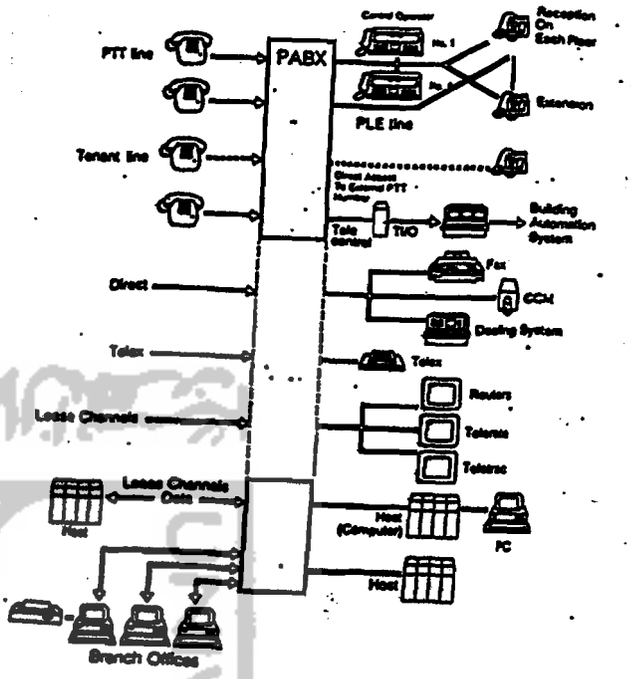


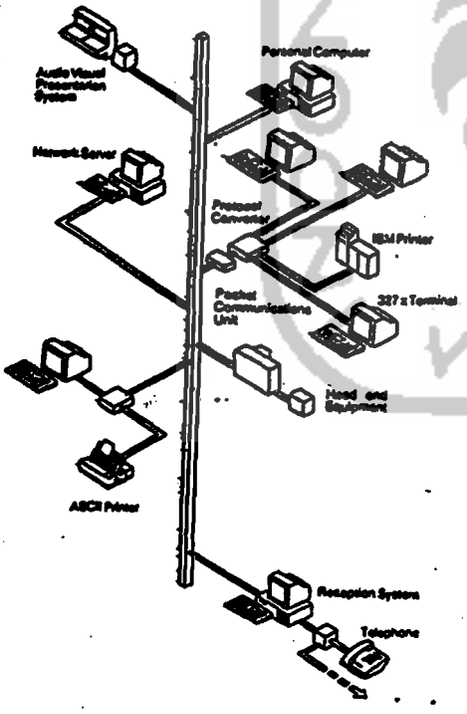
Energy Management Equipment: Direct Digital Control (DDC)

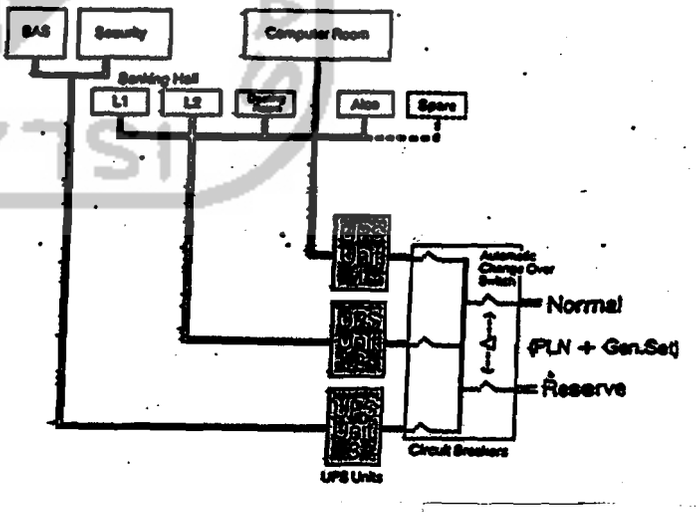
- Digital microprocessor electronic sensor inputs
- Performs mathematical and logical calculations
- Transmits outputs based on processor analysis











92/dian aryanto/Arch/038

KAVLING PERKANTORAN (B-2)

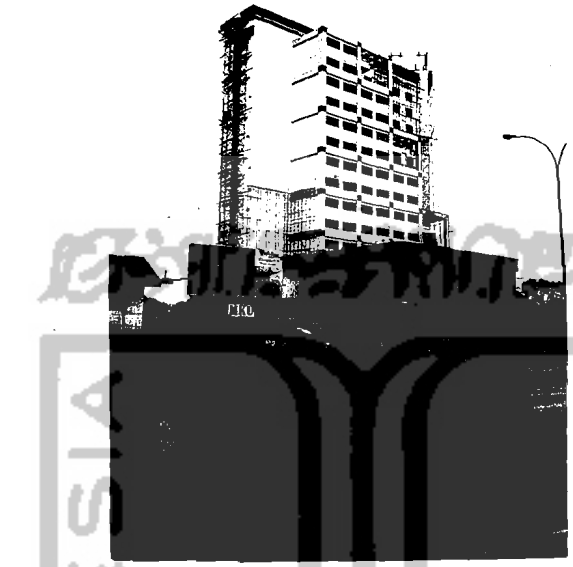
Sumber Observasi

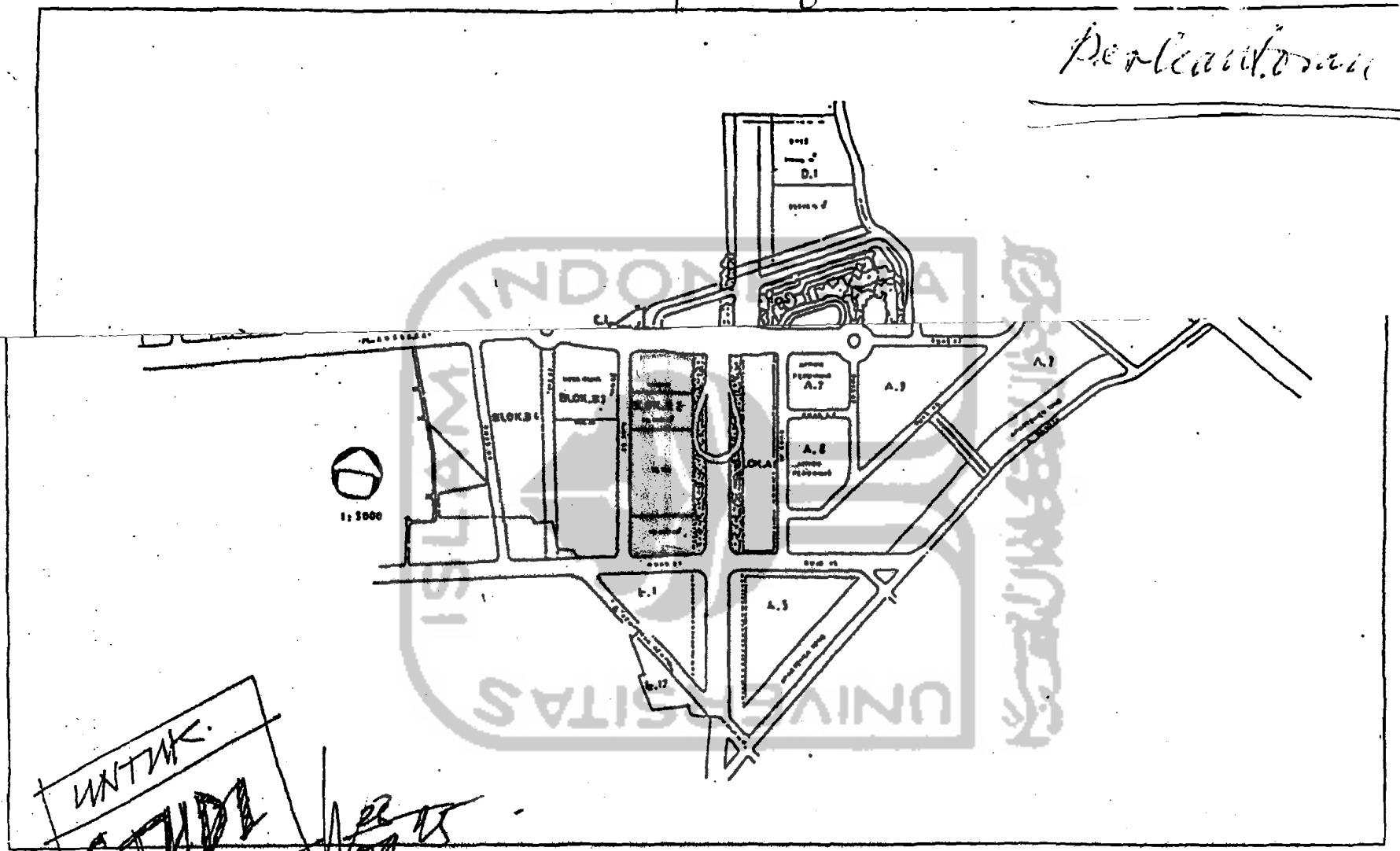
Poros Utara-Selatan

Poros Selatan-Utara

FACADE DI SEKITAR SITE (B-2)

Sumber Observasi





U S U L A N

MASTERPLAN

KOTA BARU BANDAR KEMAYORAN 1995