

# 设计说明

## 一、工程概况：

本工程为玫瑰园 S12房型内装电气工程，共上下两层，地下一层。建筑面积共约 813平方。

## 二、设计依据：

- 国家现行有关电气设计规范及地区性规定；
- 甲方提供的设计要求；
- 其它各专业所提的技术条件及甲方提出的设备标准；
- 《民用建筑电气设计规范》JGJ16-2008；
- 《建筑设计防火规范》GB50016-2006；
- 《低压配电设计规范》GB50054-1995（2005 年版）；
- 《住宅设计规范》GB50368-2005（2005 年版）；
- 《智能建筑设计标准》GB/T50314-2000；
- 《有线电视系统工程技术规范》GB50200-94；
- 《安全防范工程技术规范》GB 50348-2004；
- 《入侵报警系统工程设计规范》GB 50394-2007；
- 国家及地方其它有关现行的规范、规程、标准、规定等。

## 三、设计范围：

- 低压配电系统；
- 照明配电与装置；
- 综合布线系统（语音、数据）；
- 有线、卫星电视系统；
- 入侵报警系统；
- 紧急按钮报警系统；
- 背景音乐广播系统；

## 四、电气系统：

- 本工程用电负荷为三级负荷。
- 本工程电源由原室外电表箱引至楼层配电箱。
- 本工程电力照明配电系统均采用（TN-S）系统方式配电。

## 五、配电部分：

- 本工程原有住户电表箱位置不作改变，照明配电箱根据本图要求做位置及系统修改。
- 除地下室走道照明自带蓄电池及安防由UPS供电外，所有插座，空调回路为三级负荷；自带蓄电池灯具应急时间应不小于30分钟。
- 照明、插座、风机盘管分别由不同的支路供电，所有回路为单相三线，WDZC-BYJ-3×2.5-KBG20，普通照明回路除卧室床头阅读灯为手动调光控制外其余均为开关控制。
- 所有插座回路均设漏电断路器保护；室内风机盘管电源根据空调图纸敷设，所有风机盘管控制开关按本房间照明开关内侧布置。
- 室外景观照明及草坪灯由安装在车库的时间继电器控制，可按业主要求设置自动开关灯时间，也可根据安装在箱面板的按钮控制。
- 室外空调主机电源及预留锅炉电源等按原建筑电气施工图纸施工。
- 地下室桑拿房设备电源本图预留至桑拿房顶面，厂家安装桑拿房后可以由此

取电源。

- 所有明装控制面板、插座安装位置、安装高度根据根据装饰立面图纸尺寸施工，所有控制面板、插座底盒应由业主方确认后方可进行预埋。
- 卫生间、厨房内开关、插座选用防潮防溅型。有淋浴、浴缸的卫生间内开关、插座及其它电器应设在2区以外。
- 电线管顶面敷设和进箱时要求横平竖直。
- 导线配穿管管径见下表：

导线根数	导 线 截 面 (mm²)				
	1.0	1.5	2.5	4	6
2	KBG16			KBG20	
3	KBG20				
4					
5			KBG25		
6					
7			KBG32		
8					

- 线管支架安装见下表：

金属管种类	金属管公称直径 (mm)		
	12~20	25~32	40~50
	最大间距 (m)		
钢 管	1.5	2.0	2.5
电线管	1.0	1.5	2.0

- 电线管与水管、热水管的间距应符合现行有关规范规定，与热水平行敷设时应在热水管的下面。
- 电线管布线过长或弯多时，易适当加装拉线盒，两个拉线盒的距离应符合规范，当加装拉线盒有困难时，也可适当加大管径。

## 六、接地保护：

- 本工程有淋浴室的卫生间采用局部等电位联结，从适当地方引出一根-40×4mm 镀锌扁钢至局部等电位箱（LED），局部等电位箱暗装，底边距地0.5m。将卫生间内所有金属管道、金属构件联结。具体做法参见国标图集《等电位联结安装》02D501-2。
- 凡正常不带电，而当绝缘破坏有可能呈现电压的一切电气设备金属外壳均应可靠接地。
- 过电压保护：在电源总配电箱内装第一级浪涌保护器（SPD），分配电箱内装第二级浪涌保护器。

## 七、语音系统：

- 本工程设计共计4门直线电话，其中2门作总机使用，1门作传真机使用，1门作备用。
- 原则每个房间一个电话分机（与网络插座合用一个面板），二层书房设一门传真直线电话。
- 电话电缆按平面图示意穿金属管后至弱电电室。弱电电室设置小型分配线架，配置家庭电话交换机（4进24出）。
- 普通卧室、书房电话插座面板离地0.3m安装，其他电话插座按图示标高安装。卧室卫生间内电话分机按业主自行需要增加，与本房间同一分机回路。
- 电话干线使用HPVV绝缘聚乙烯护套市内通讯电缆，电话支线使用HJYV

户内电话经弱电线路槽及穿PC电线管暗敷设。

## 八、数据系统：

- 本工程预设计数据信号为语音信号经过 Model转换来 ADSL,再经过网络交换机及小型配线架分配到各房间（与电话插座合用一个面板）。
- 数据线的传输控制在90m长度内，不同区域数据点应根据长度来决定于数据点的来源点。
- 网络设备及配线柜在弱电电室内暗装。电脑插座选用 RJ45 超五类型，与网线匹配，底边距地0.3m安装。无线网络发射点 Wifi 可根据业主要求另行调整，但应安装在隐蔽的橱柜或活动吊顶内。

## 九、有线、卫星电视系统：

- 本工程有线电视信号进入弱电电室经过有线电视分配器转换后分至各电视点，
- 分配网络的主干线路采用光缆，由各光节点向下传输分配的网络为铜缆系统。支线同轴电缆采用相当于 75-9 的四重屏蔽物理发泡电缆，从各分支器引至用户终端盒的入户同轴电缆采用相当于75-5的四重屏蔽物理发泡电缆。电缆至电缆、电缆至分支分配器、电缆至用户终端盒之间的连接均采用全屏蔽压接式 F接头。
- 本工程应根据业主要求预留卫星天线管，管的走向应根据业主要求布置，不在本图显示。
- 卫星天线在阳台或屋顶设置天线基座，设置电源及信号管线至需要的房间。卫星天线除考虑自重外，还特别应考虑风荷载。电视系统严格按照国家有关标准进行施工，所有的产品均应应为著名厂家的产品,性能稳定可靠，系统运行后电视频道信号丰富清晰流畅，能满足用户的使用要求。

## 十、入侵报警系统及紧急按钮报警系统

- 本工程入侵探测器采用双鉴探测器、紧急报警按钮等。
- 双鉴探测器采用自适应雷达／红外双鉴探测器-AR435，使用自适应雷达技术，可控制雷达的覆盖范围（2.7米、5.5米、8.3米、10.7米）。
- 双鉴探测器布置在主要房间的通道出入口。
- 入侵报警系统具备入侵探测报警、紧急报警及报警通讯等功能，能根据系统需求和设防环境条件，合理选择配置各类探测设备。
- 入侵报警系统由报警主机、布撤防键盘、串口通讯模块、前端探测器等组成；报警主机具有接收多路同时报警的功能，并能显示、记录任何一路报警信号及报警部位。
- 系统具有防破坏功能以及被破坏报警功能，能对设备运行状态和信号传输线路进行检测，对包括线路被短路、截断、探测器被拆卸和破坏等能及时发出故障报警并指示故障位置，并对故障进行记录。
- 每个报警点相互隔离，互不影响。任一探测器故障，应在保安控制室发出声、光报警信号，并能自动调出报警平面，显示故障点位置，发生报警时主机应能循环拨打五路预设电话号码。
- 探测设备电源由主机统一供给。
- 报警系统的基本功能及基本技术指标还应符合GA/T368-2001《入侵报警系统技术要求》的规定。
- 紧急按钮报警系统终端设备设置在客厅、主要卧室等处。装置设有防误动作保

\*\*\*\*\*  
\*\*有限公司

SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

SHEET  
设计说明  
竣工图

SHEET TITLE  
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SCALE

PROJECT NO.  
SHEET NO.  
DQ-01

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SHANGHAI CHINA  
中国 · 上海

SHEET  
电气说明 (二) 图例  
竣工图

SHEET TITLE

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SCALE

PROJECT NO.

SHEET NO.

DQ-02

## 图 例

序号	图例	设备名称	型号及规格	安装方式	备注
1		照明配电箱	见系统图	暗装,下皮距地 1.8m	
2		双电源自动切换			原有系统
3		多种电源箱			原有系统
4		弱电交接箱	见系统图	暗装,下皮距地 0.5m	
5		弱电分线箱	见系统图	暗装,下皮距地 0.5m	
6		电视分线箱	见系统图	暗装,下皮距地 1.4m	
7		智能报警主机	RJ45 型	底边离地 1.4m	
8		布、撒防分机	RJ45 型	底边离地 1.4m	
9		多媒体背景音乐控制器	型号待定	底边离地 1.1m	
10		花 灯	200W/220V	吸顶安装	
11		可调角度嵌入式射灯	MR16 50W	嵌顶安装	
12		嵌入式防水射灯	MR16 50W/12V	嵌顶安装	
13		筒 灯	13W/220V	嵌顶安装	带LED灯具自带蓄电池 应急时间不小于30min
14		明装壁灯	50W/220V	墙面安装	标高按装修图示
15		T5 灯带	28W 21W 14W/220V	灯槽内暗装	
16		卫生间排气扇	36W/220V	吊顶内安装	
17		单极开关	10A/220V	暗装,底边离地 1.30m	
18		双极开关	10A/220V	暗装,底边离地 1.30m	
19		三极开关	10A/220V	暗装,底边离地 1.30m	
20		调光开关	10A/220V	暗装,底边离地 0.60m	
21		二三眼插座	10A/220V	无标注底边离地 0.30m	
22		开关带插座	10A/220V	无标注底边离地 1.30m	
23		二三眼防水插座	10A/220V	无标注底边离地 1.30m	
24		地面插座	10A/220V		
25		电视插座	RJ45 标准	标高按图示	
26		语音插座	RJ45 标准	无标注底边离地 0.30m	
27		语音数据双口插座	RJ45 标准	无标注底边离地 0.30m	
28		数据插座	RJ45 标准	无标注底边离地 0.30m	
29		地面信息插座	RJ45 标准		
30		无线路由器	TL-WR340G+	隐蔽安装	
31		可视对讲主机	型号待定	暗装,底边离地 1.40m	
32		可视对讲分机	型号待定	暗装,底边离地 1.40m	
33		紧急报警按钮	型号待定	无标注底边离地 0.80m	
34		窗、门磁	型号待定	门窗上安装	
35		煤气探测器	型号待定	吸顶安装	
36		红外探测器	型号待定	吸顶安装	
37		破玻报警器	型号待定	吸顶安装	
38		吸顶音箱	型号待定	吸顶安装	
39		接线盒	86型预留		
40		由上引下			
41		由下引上			
42		引下			
43		引上			

护。此装置一旦被启动，只有保安人员才有钥匙打开并再设定。

11. 紧急呼叫按钮距地 0.8m；门磁窗磁在顶板上预留接线盒；双鉴探测器及煤气探测器吸顶安装。护。此装置一旦被启动，只有保安人员才有钥匙打开并再设定。

### 十一. 背景音乐系统

1. 在地下一层酒吧处设置背景音乐控制主机，主机由功放、CD、AM/FM、MP3 等组成，功放具有十一路分区输出功能，并有音频输入可级联扩容。
2. MP3 可随意下载及更新到 CF 卡储存，储存空间可任意扩展。
3. 遥控器具有多键红外遥控功能，功能强大满足多样话的遥控功能。

### 十二. 其他:

1. 电气安装于易燃体之间应采取隔热防火措施。
2. 灯头盒要求安装到位，灯头盒与灯具间导线穿金属软管敷设，金属软管与灯头盒及灯具的连接应选用索咀固定，所有低压灯具配管前应首先考虑变压器安装位置。
3. 图中未标注线路根数均为 3 根；所有调光、开关照明及插座回路在金属线槽内敷设应分段绑扎，穿线至设备房后应分路套标式管。
4. 电气设备安装与线路敷设必须与装饰施工相互密切配合。
5. 本工程的设备、材料的制造、施工安装及未尽事宜必须符合国家有关规范、规程、标准所规定。
6. 在施工中若遇到问题,施工单位应及时和设计及有关部门共同协商解决。
7. 本工程施工中应参照的规范与图籍有:

《建筑电气工程施工质量验收规范》GB50303-2002  
《建筑电气工程安装图籍》  
《等电位联结安装》02D501-2  
《常用灯具安装》96D702-2  
《建筑电气工程设计常用图形和文字符号》00DX001

7. 本工程中照明配电箱内回路编号说明:

N01  
回路编号

N普通照明、T插座回路、D 动力回路、W 电源回路

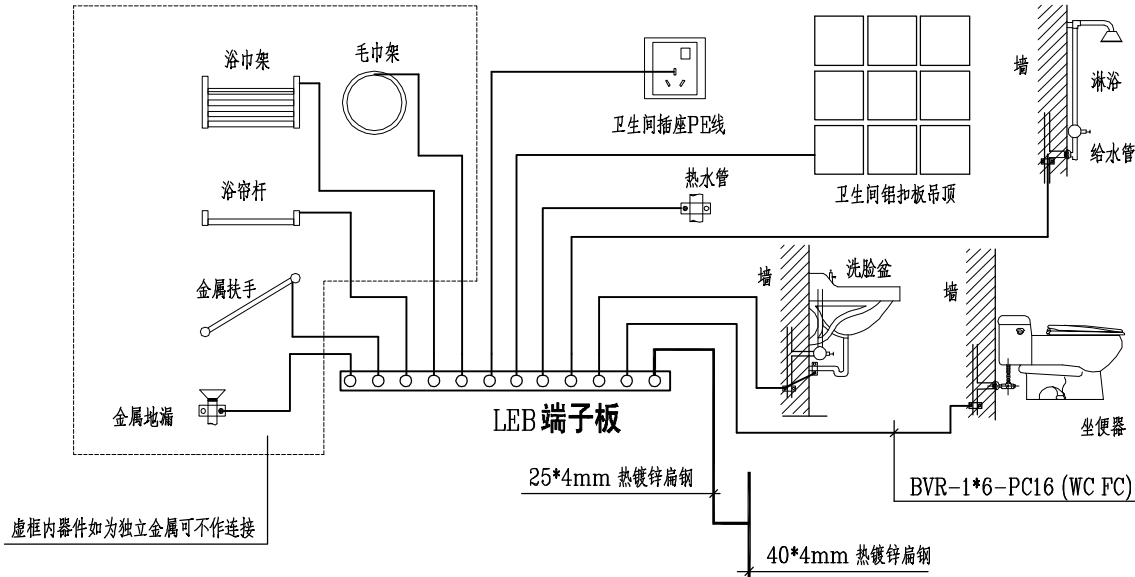
8. 本工程中敷设方式:

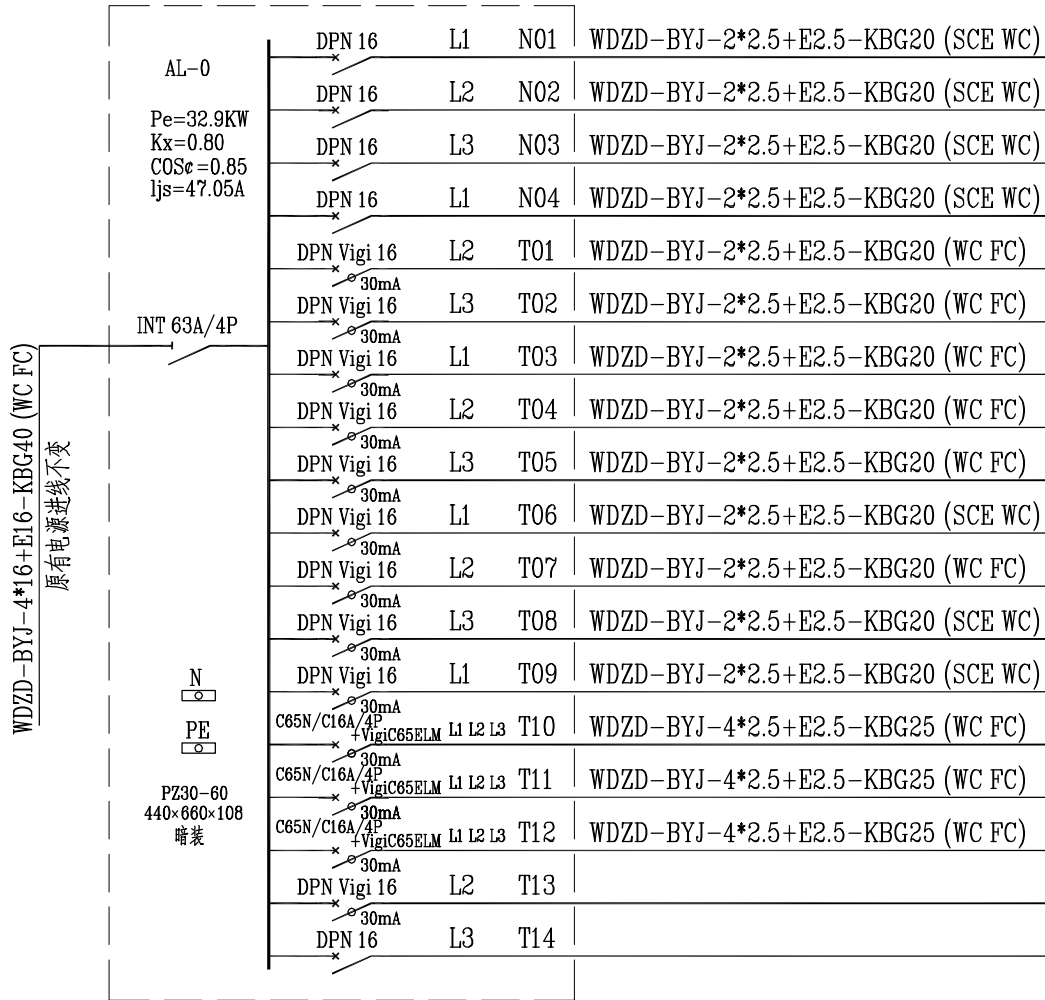
FC 地板或地下面下敷设  
WC 墙面敷设  
SCE 吊顶内敷设  
KBG 扣压式镀锌电线管敷设  
KPC 塑料波纹电线管敷设

注:

1. 等电位联结线与浴室、下水管等卫生设备的连接见02D501-2 P41、42。
2. 图中LEB出线均采用BVR-1\*6mm<sup>2</sup>电线在地面内或墙内穿 PC16 塑料管暗敷。
3. 等电位连接线在端子板处使用开口线鼻压接后螺栓连接，器具外用橡胶紧固。
4. 卫生间等电位端子板的设置位置应隐蔽且方便检测,其具体做法见 02D501-2 P24、32。
5. 等电位联结完成后，表面无影响装修的明导线

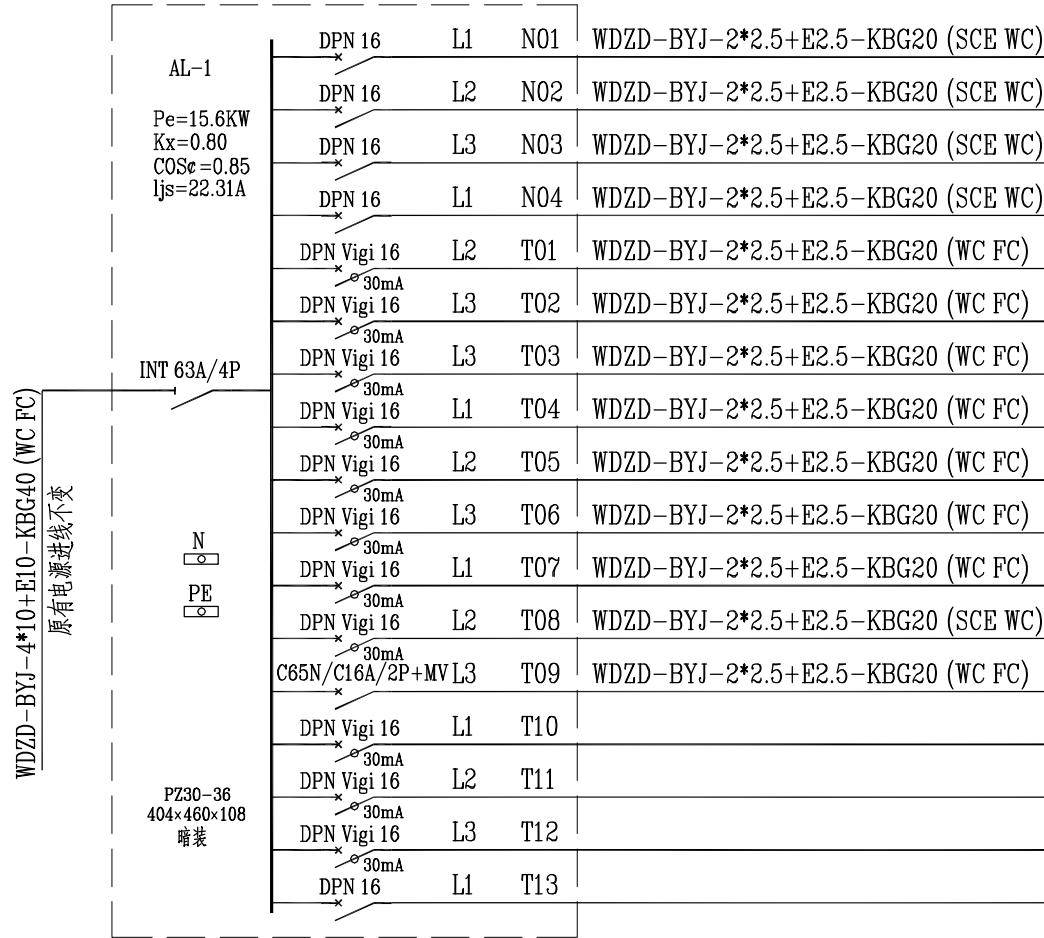
### 卫生间局部等电位联结示意图





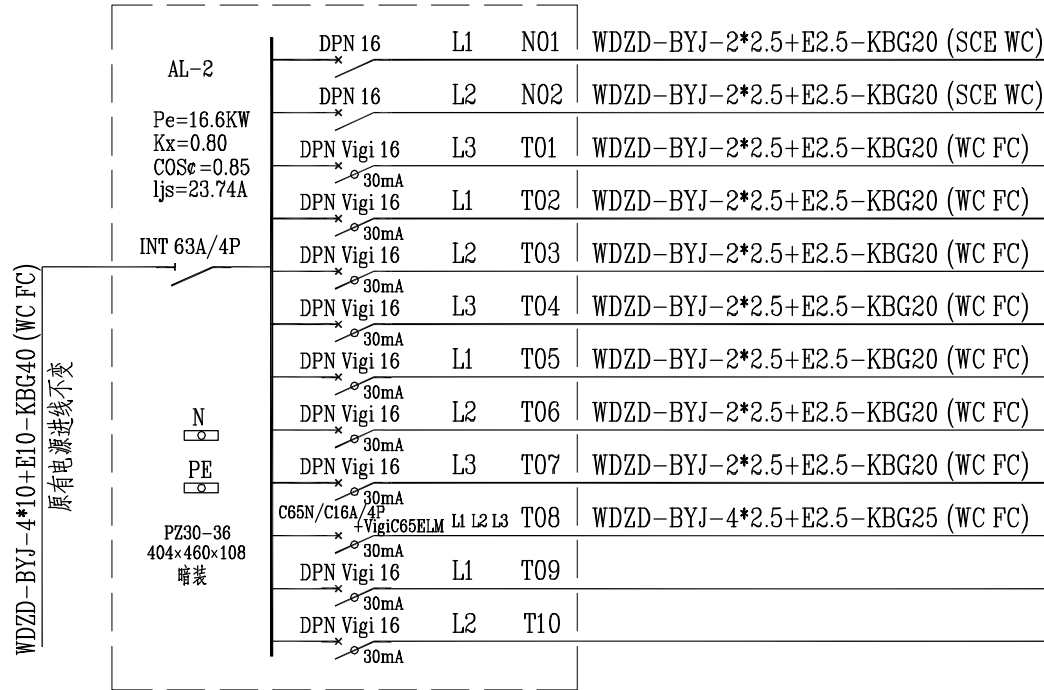
住户箱 AL-0 系统图

- 照 明 1.2KW
- 照 明 1.2KW
- 照 明 1.2KW
- 全热交换器 0.6KW
- 设备房插座 1.0KW
- 洗衣房插座 2.0KW
- 家庭影院插座 1.5KW
- 普通插座 1.0KW
- 卫生间插座 1.5KW
- 浴霸电源 1.5KW
- 卫生间插座 1.5KW
- 浴霸电源 1.5KW
- 浴霸电源 1.5KW
- 按摩浴缸电源 4.0KW
- 桑拿电源 5.0KW
- 桑拿电源 5.0KW
- 备 用
- 备 用



住户箱 AL-1 系统图

- 照 明 1.2KW
- 照 明 1.2KW
- 照 明 1.2KW
- 全热交换器 0.6KW
- 普通插座 1.0KW
- 普通插座 1.0KW
- 普通插座 1.0KW
- 车库插座 1.0KW
- 厨房插座 1.5KW
- 厨房插座 1.5KW
- 卫生间插座 1.5KW
- 浴霸电源 1.5KW
- 弱电箱电源 0.6KW
- 庭院照明 (预留)
- 庭院照明 (预留)
- 备 用
- 备 用



住户箱 AL-2 系统图

- 照 明 1.2KW
- 照 明 1.2KW
- 普通插座 1.0KW
- 普通插座 1.0KW
- 普通插座 1.0KW
- 主卫插座 1.5KW
- 主卫浴霸电源 1.5KW
- 卫生间插座 1.5KW
- 浴霸电源 1.5KW
- 按摩浴缸电源 4.0KW
- 备 用
- 备 用

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SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

S12型  
电气系统图  
施工图

SHEET TITLE

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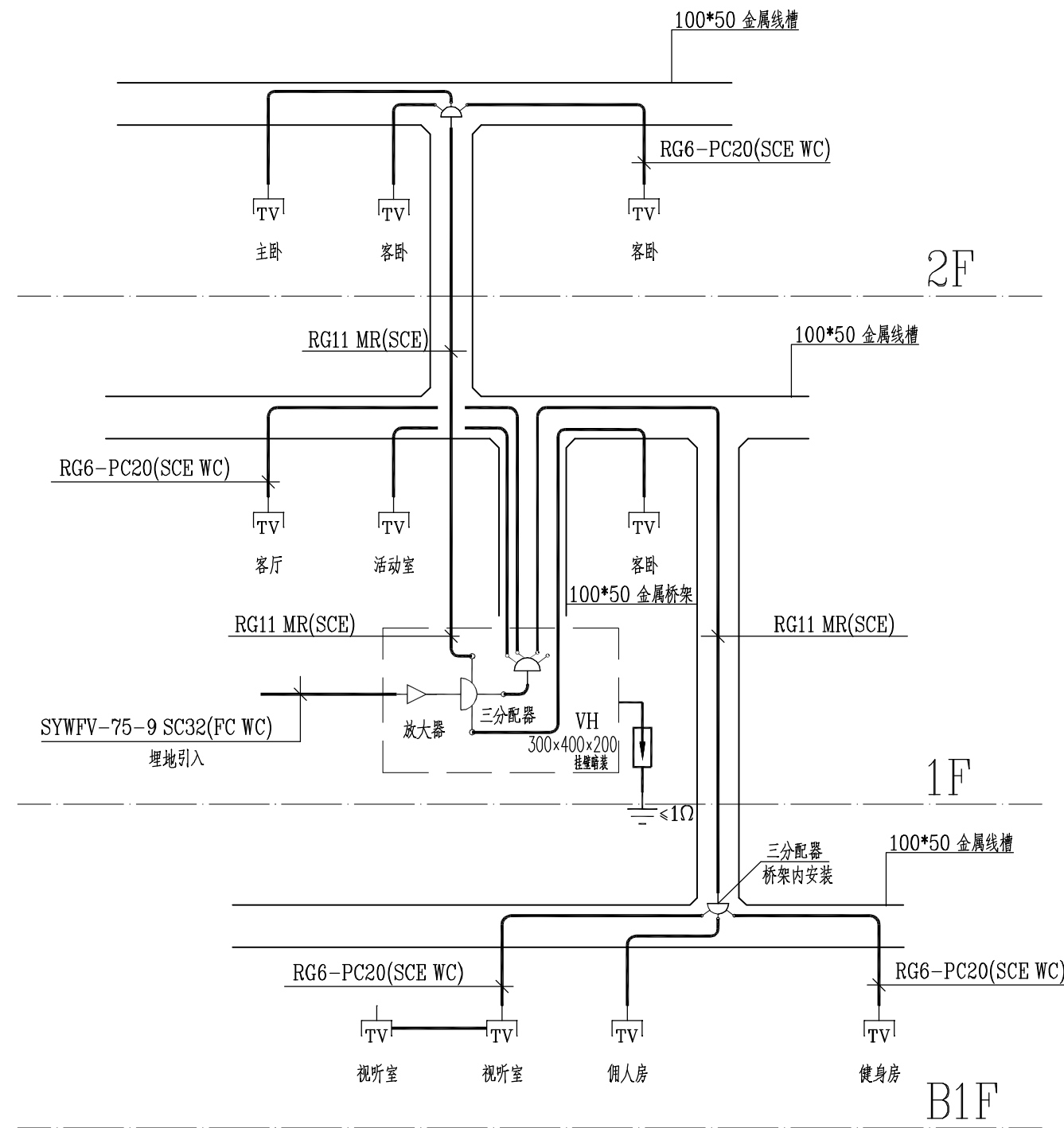
DATE MAR,2009

SCALE

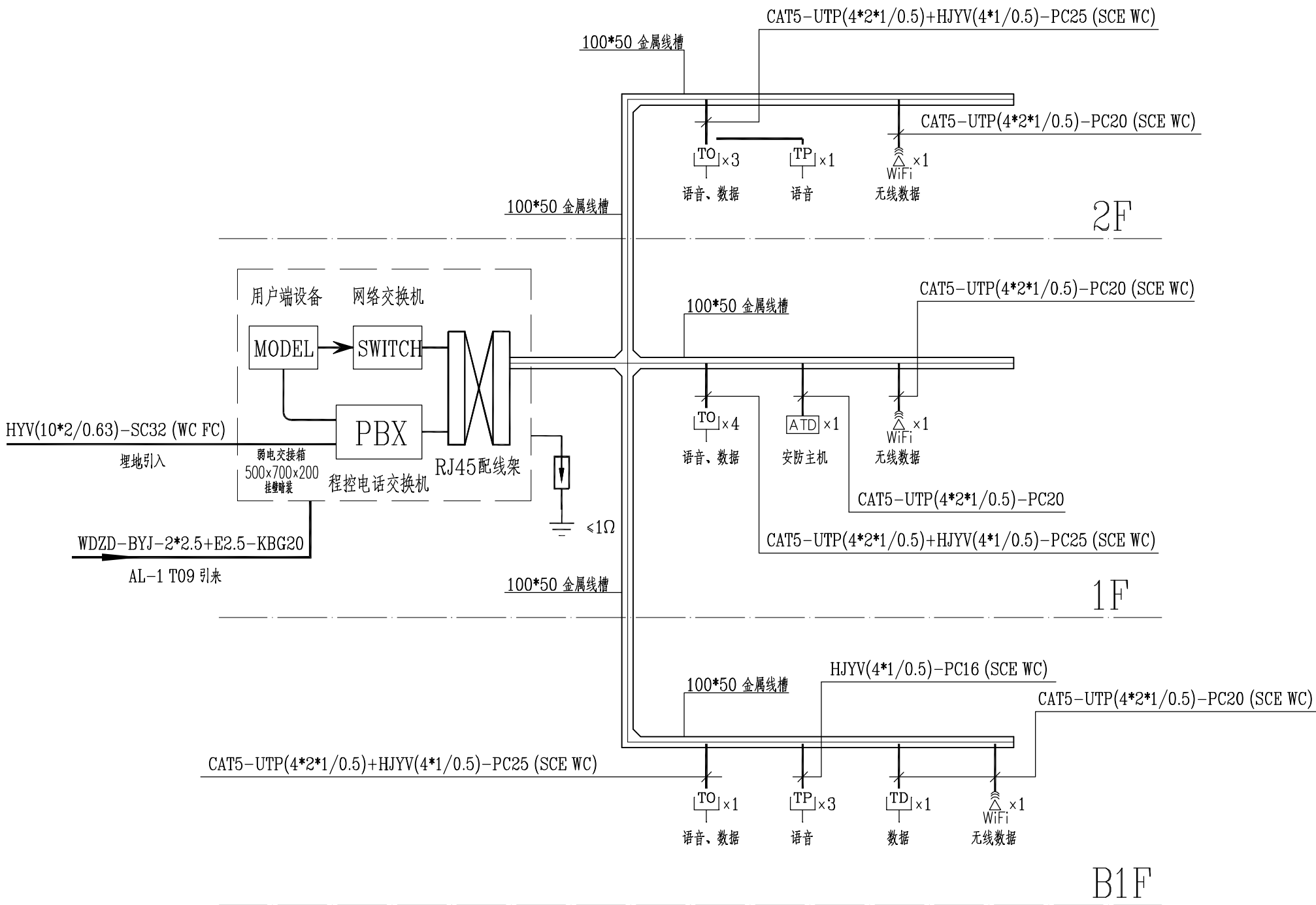
PROJECT NO.

SHEET NO.

DQ-03



有线电视系统图



语音、数据系统图

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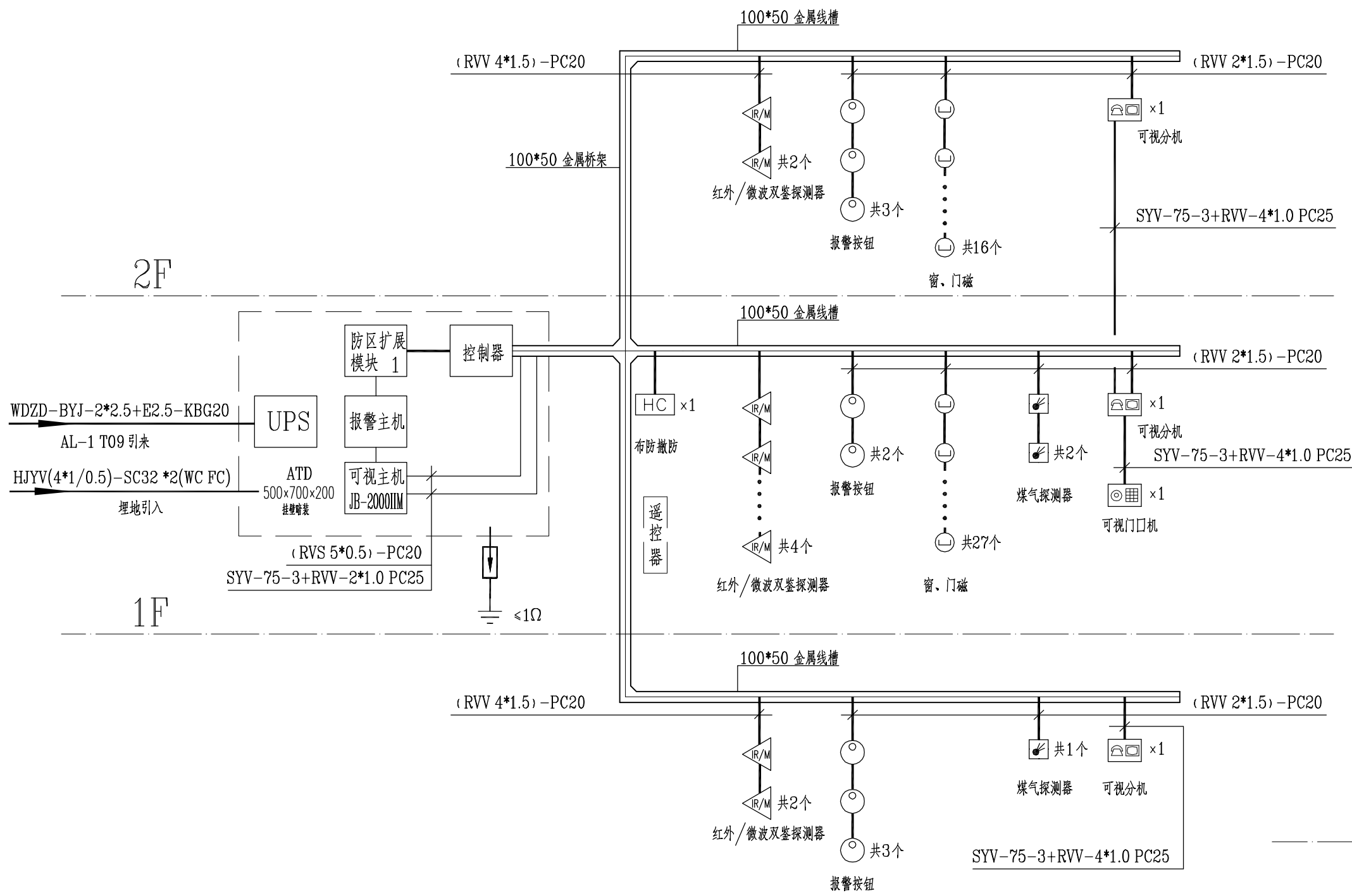
SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

SZ型  
弱电系统图 (一)  
竣工图

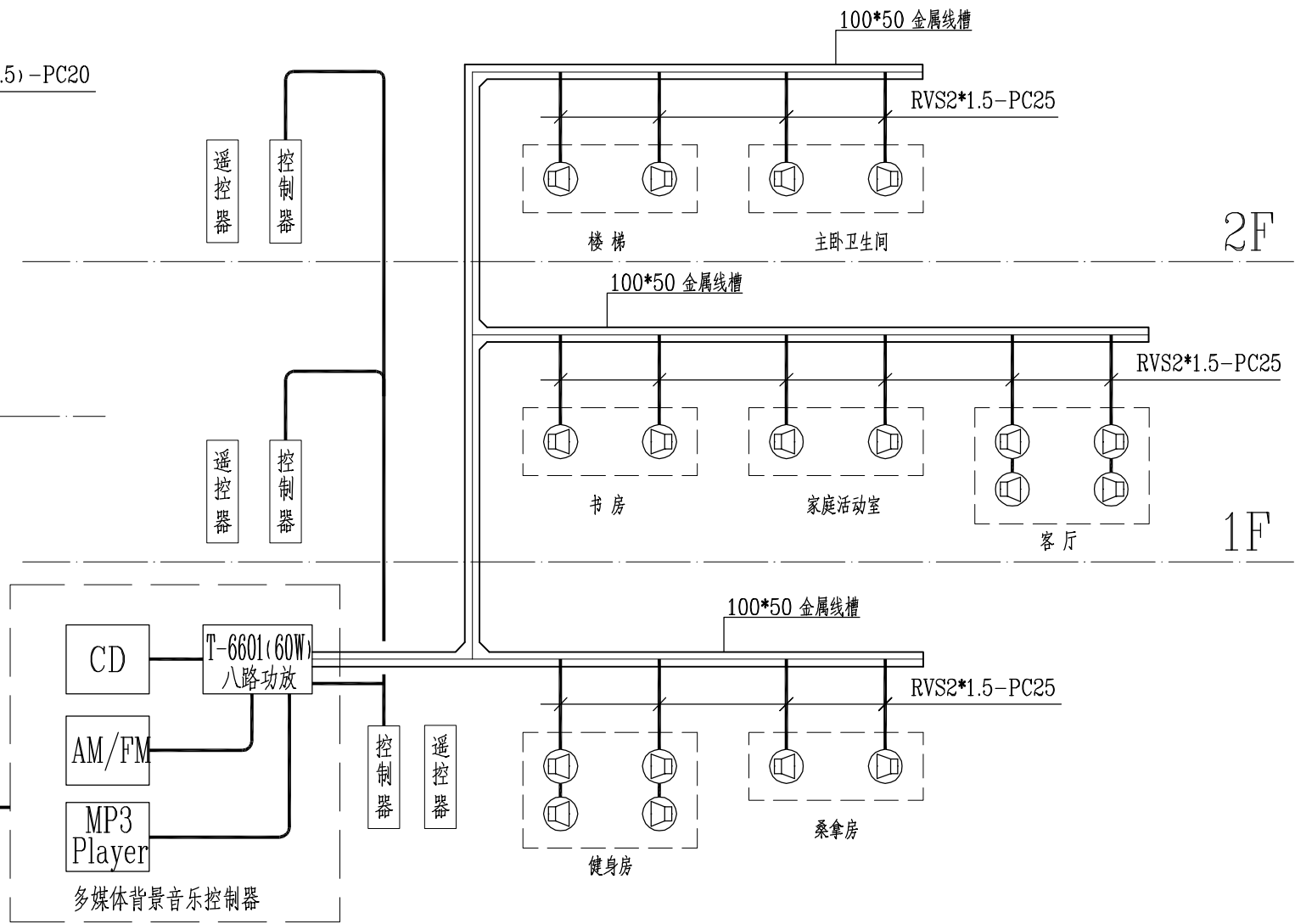
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DATE MAR,2009  
SCALE

PROJECT NO.  
SHEET NO.  
DQ-04



安防报警系统图



背景音乐系统图

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SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

SIZE  
弱电系统图 (二)  
竣工图

SHEET TITLE

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DRAWN

DATE MAR, 2009

SCALE

PROJECT NO.

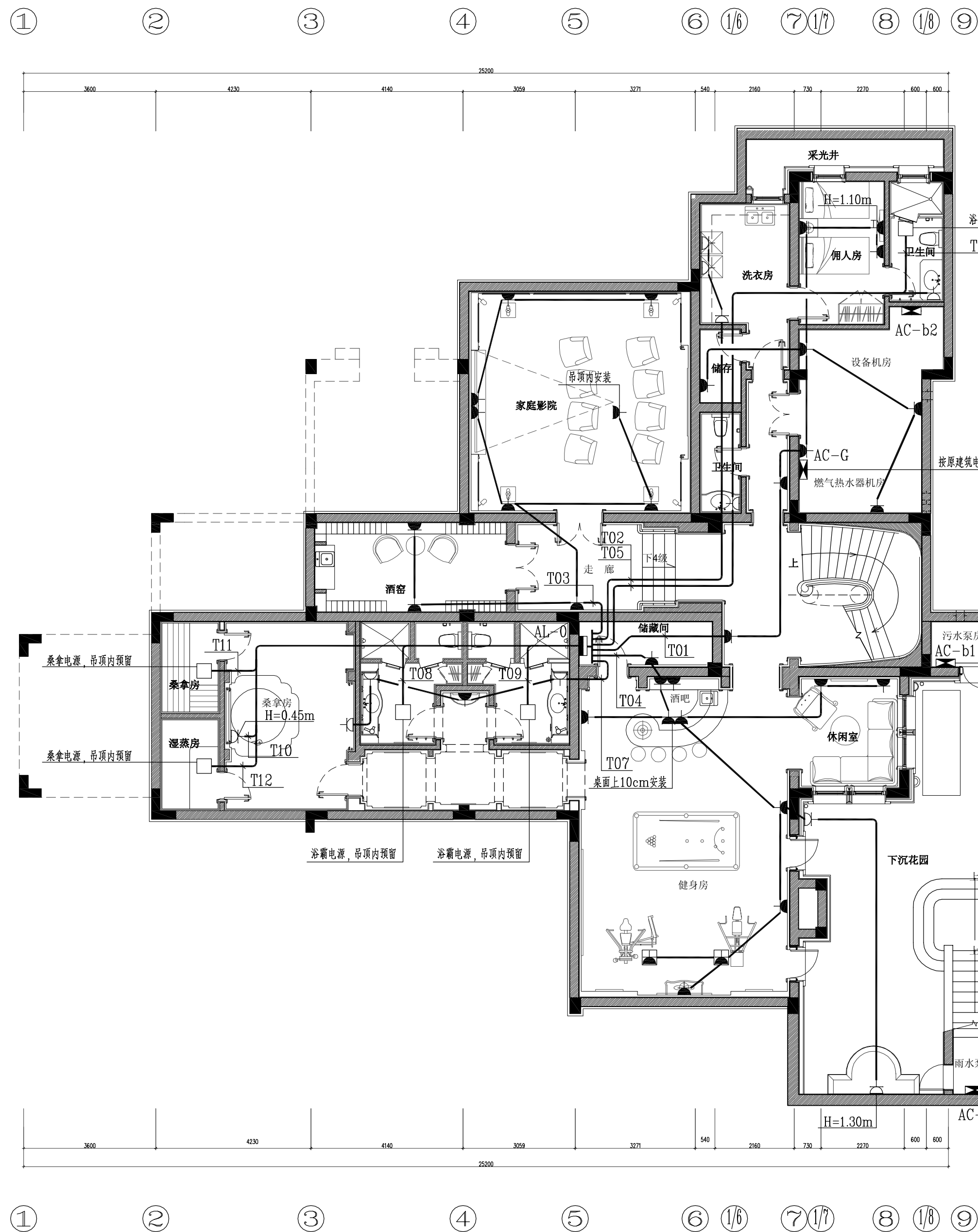
SHEET NO.

DQ-05

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2540

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SHANGHAI CHINA  
中国 · 上海

S12型  
地下室插座平面图  
施工图

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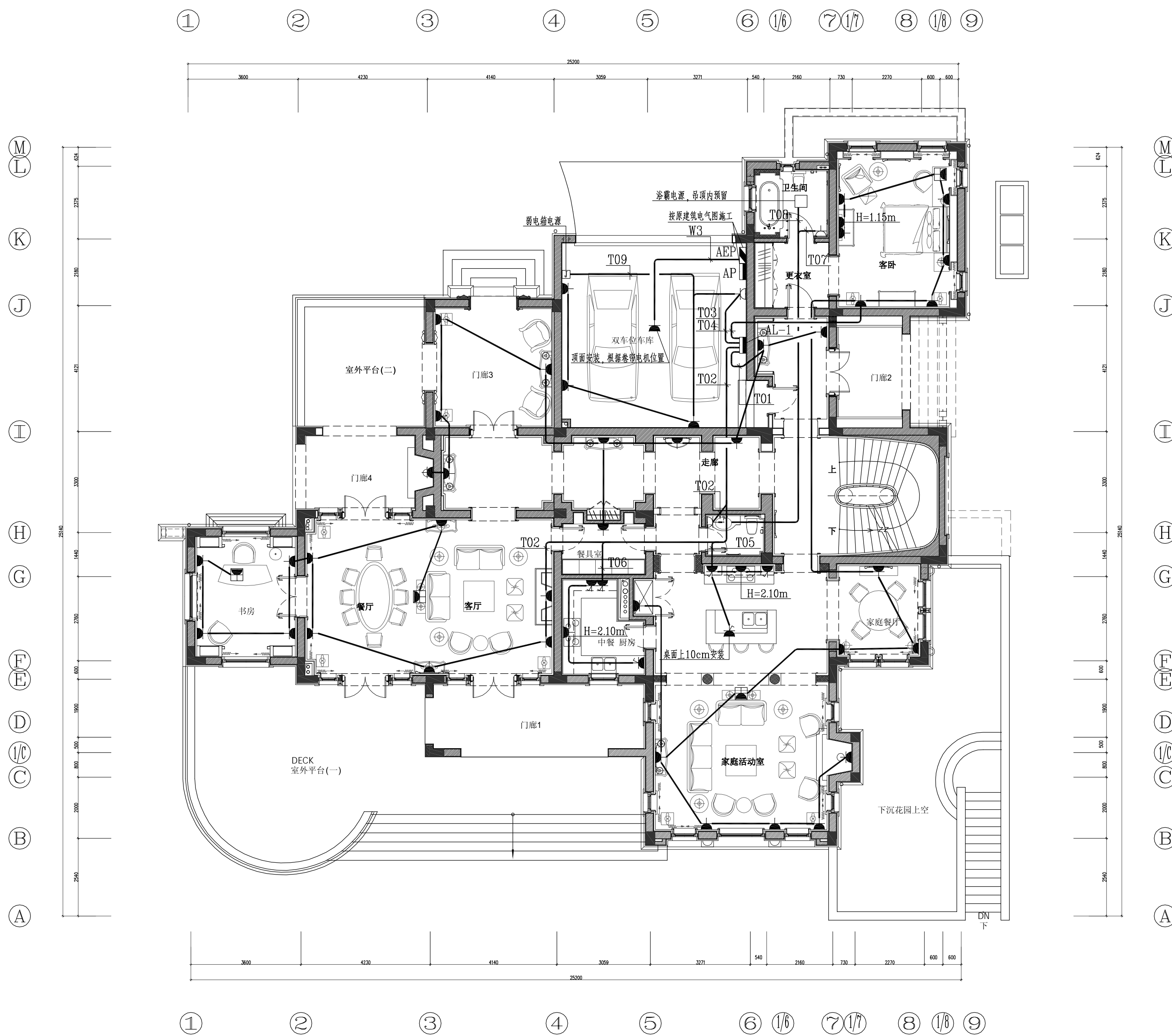
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DRAWN  
DATE MAR, 2009  
SCALE 1:100

PROJECT NO.  
SHEET NO.  
DQ-06

**S12 STYLE** 1:100  
地下室插座平面图





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SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

S12型  
一层插座平面图  
施工图

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DRAWN \_\_\_\_\_  
DATE MAR, 2009  
SCALE 1:100

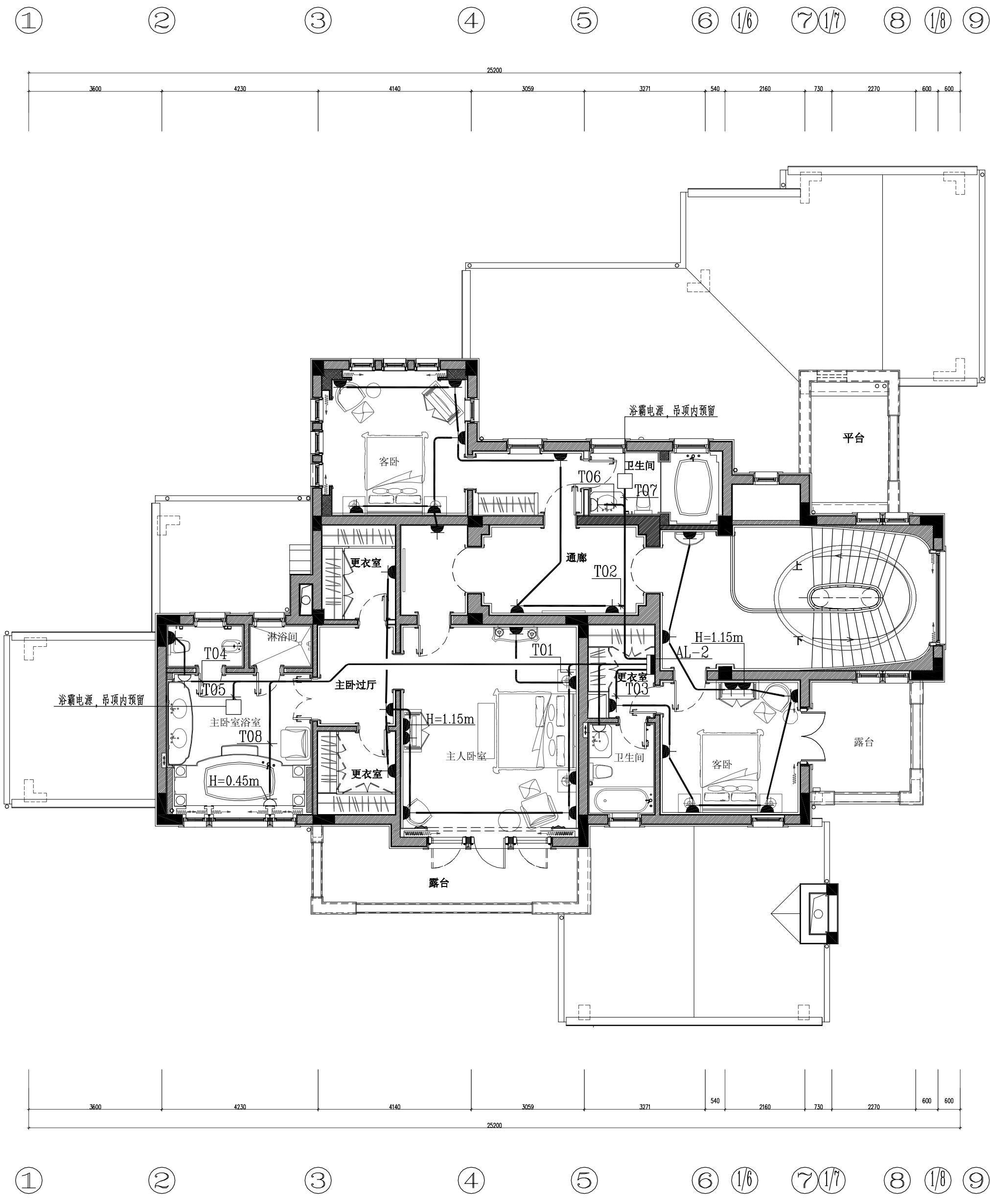
PROJECT NO. \_\_\_\_\_  
SHEET NO. \_\_\_\_\_  
DQ-07

**S12 STYLE** 1:100  
一层插座平面图

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2000 1900 1800 1700 1600 1500 1440 1300 1275 1250 1225 1200 1175 1150 1125 1100 1075 1050 1025 1000 975 950 925 900 875 850 825 800 775 750 725 700 675 650 625 600 575 550 525 500 475 450 425 400 375 350 325 300 275 250 225 200 175 150 125 100 75 50 25 0



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SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

S12型  
二层插座平面图  
施工图

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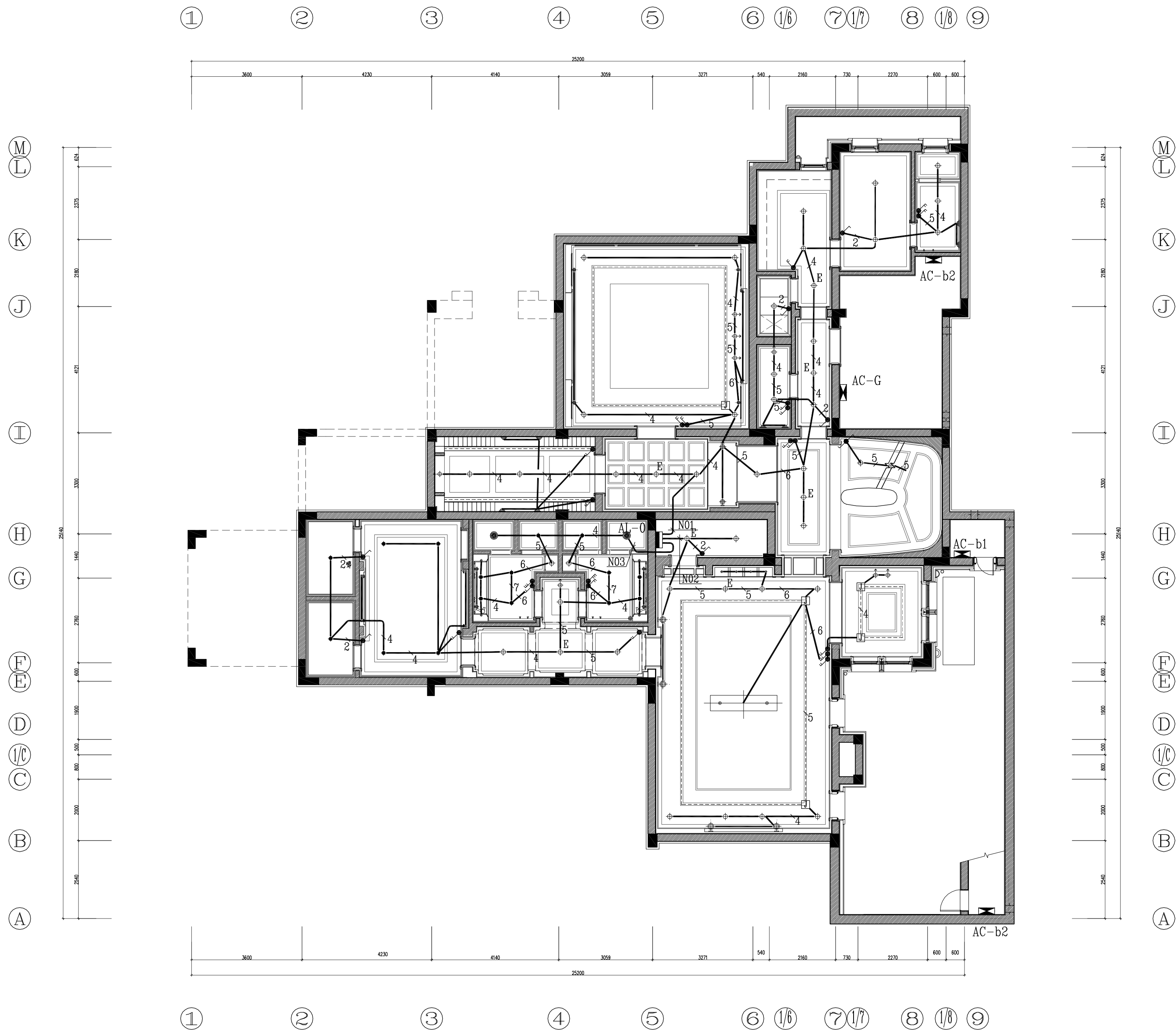
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DATE MAR, 2009  
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PROJECT NO. \_\_\_\_\_  
SHEET NO. \_\_\_\_\_  
DQ-08

**S12 STYLE** 1:100  
二层插座平面图





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上海玫瑰園  
SHANGHAI CHINA  
中国 · 上海

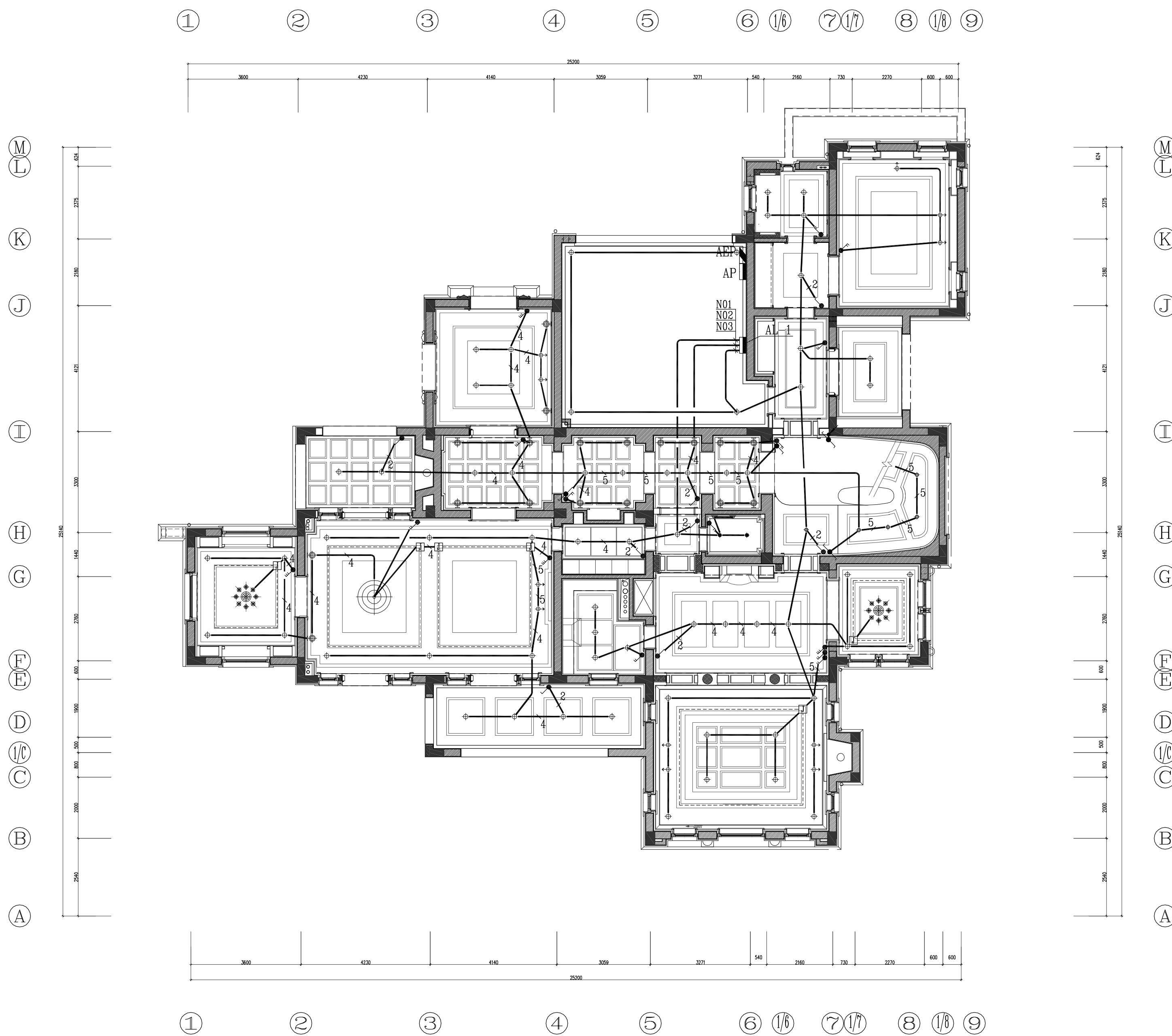
S12型  
地下室照明平面图  
施工图

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SCALE 1:100

PROJECT NO.  
SHEET NO.  
DQ-09

**S12 STYLE** 1:100  
地下室照明平面图



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SHANGHAI ROSE GARDEN  
上海玫瑰園  
SHANGHAI CHINA  
中国 · 上海

S12型  
一层照明平面图  
施工图

SHEET TITLE  
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SCALE 1:100

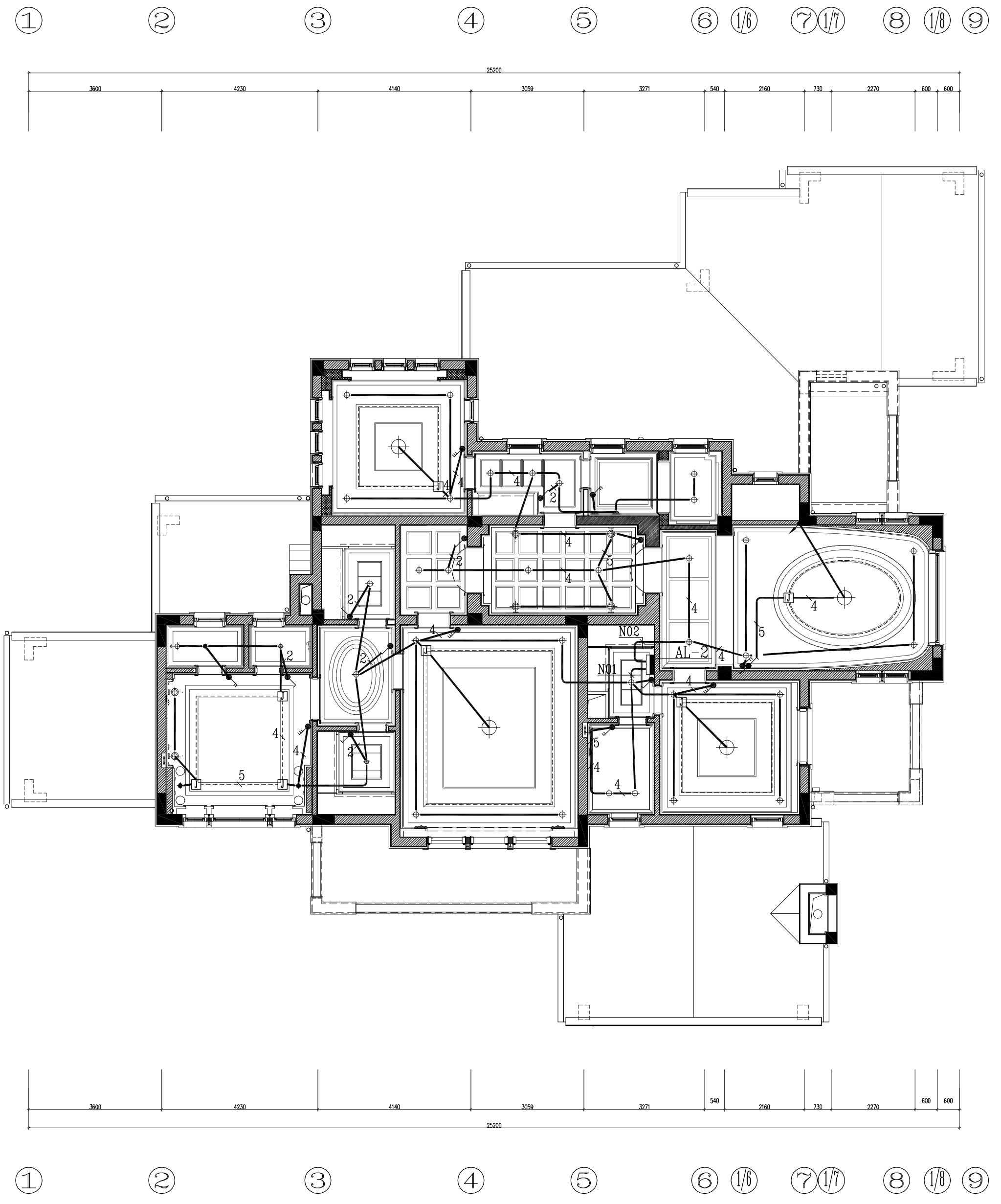
PROJECT NO. \_\_\_\_\_  
SHEET NO. \_\_\_\_\_  
DQ-10

**S12 STYLE** 1:100  
一层照明平面图

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2180  
2275  
624

**S12 STYLE** 1:100  
二层照明平面图

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SHANGHAI ROSE GARDEN  
上海玫瑰園  
SHANGHAI CHINA  
中国 · 上海

S12型  
二层照明平面图  
施工图

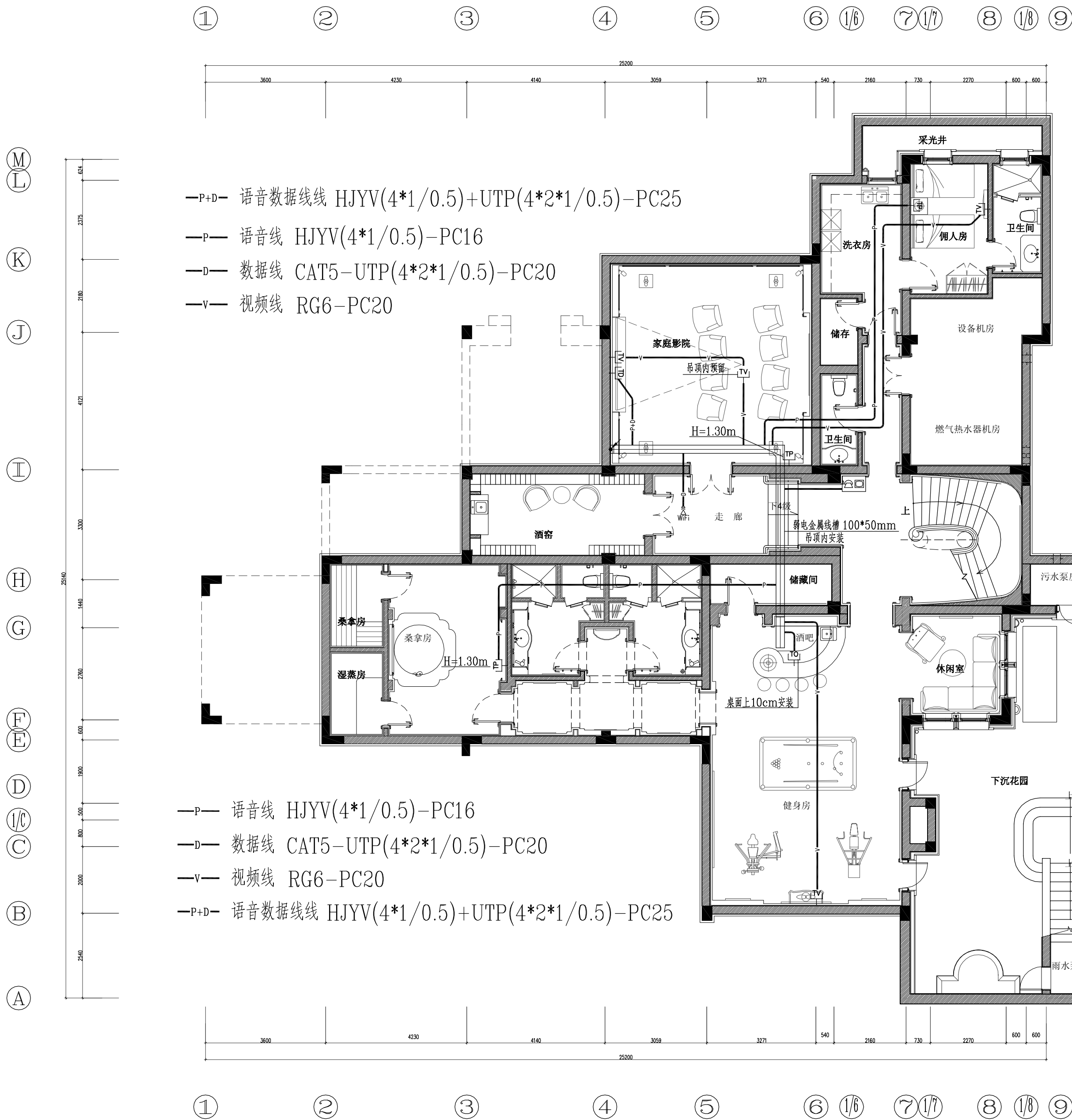
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PROJECT NO. \_\_\_\_\_  
SHEET NO. \_\_\_\_\_  
DQ-11



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SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

S12型  
地下室语音、数据平面图  
施工图

SHEET TITLE  
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SCALE 1:100

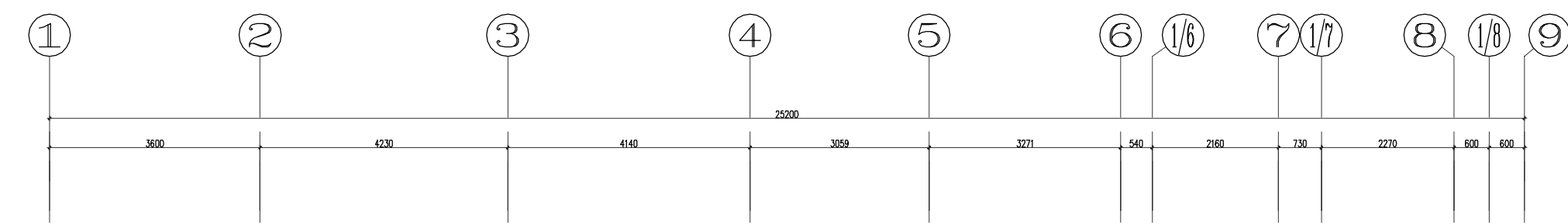
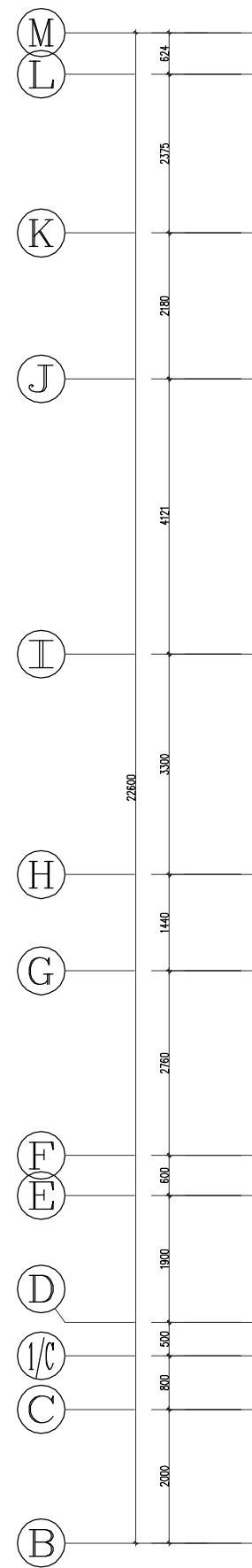
PROJECT NO.  
SHEET NO.  
DQ-12

S12 STYLE 1:100  
地下室语音、数据平面图

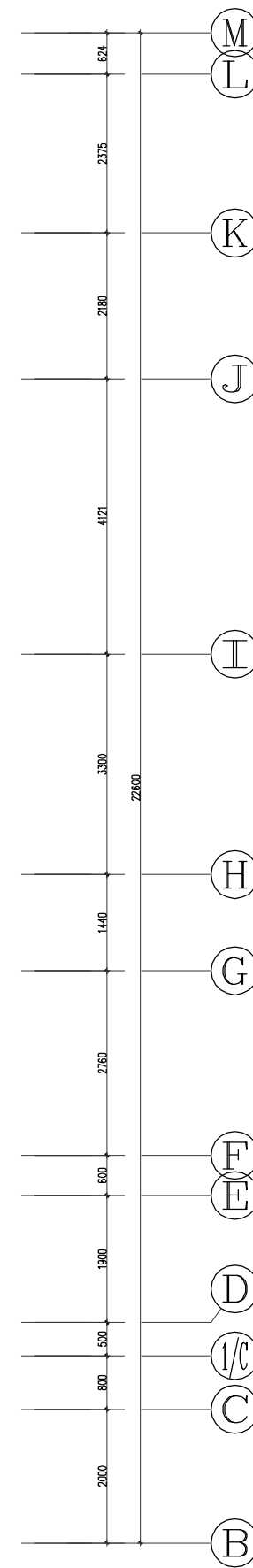
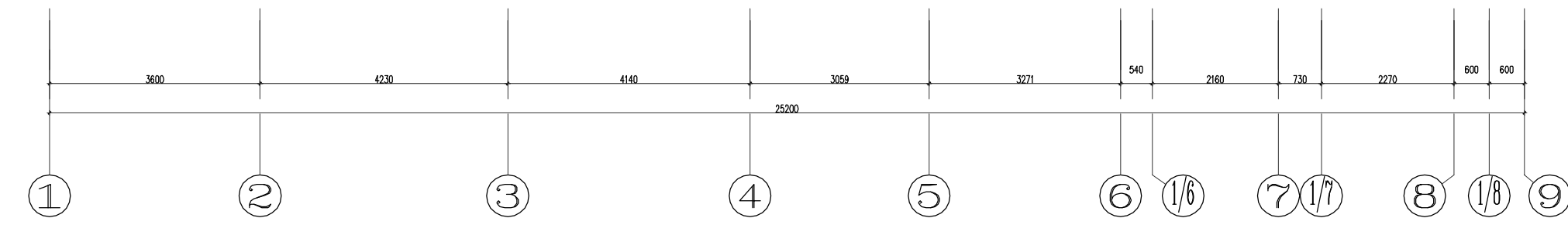
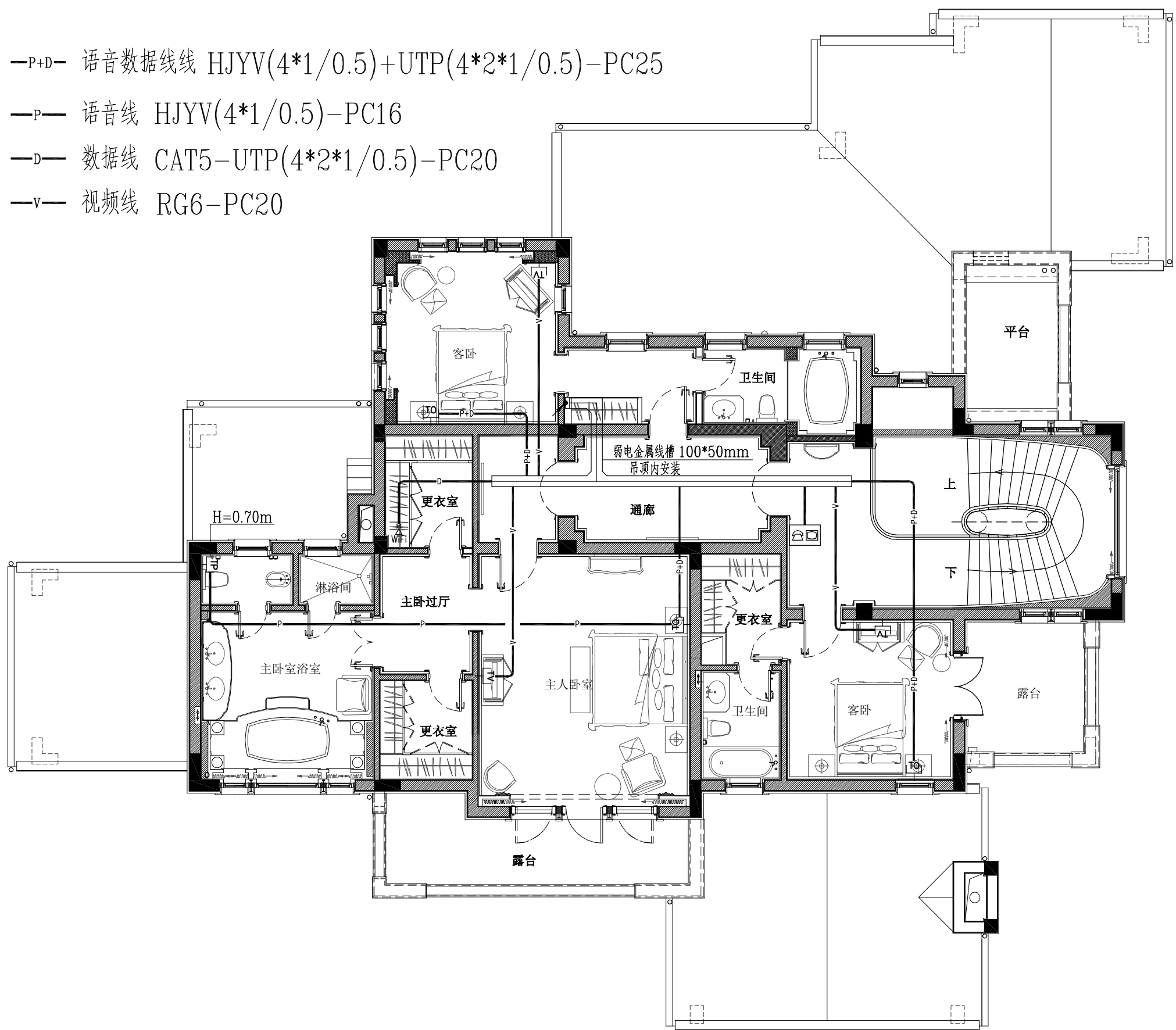
SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

<h2 style="text-align: center;">SHEET TITLE</h2> <p>This drawing is for information only, to be used as a general arrangement of interior conditions by the contractor. It has been made from available information, however all measurements must be verified on project site. Before final detailing and fabrication, the drawing must be verified and approved. This drawing is the property of Billy Llinos Design, and no part of sum of the entirety of this document is to be copied or reproduced. It is to be used for the project and site only, specifically identified herein, and is not to be used on any other project. It also is to be returned upon request.</p> <p>© Copyright by Billy Llinos Design. 1980 - All Rights Reserved.</p>		
NO.	DATE	REVISION
<div style="border: 1px solid black; width: 40px; height: 40px; margin: 0 auto;"></div>		

PROJECT NO.
SHEET NO.
DQ-13



- P+D— 语音数据线缆 HJYV(4\*1/0.5)+UTP(4\*2\*1/0.5)-PC25  
—P— 语音线 HJYV(4\*1/0.5)-PC16  
—D— 数据线 CAT5-UTP(4\*2\*1/0.5)-PC20  
—V— 视频线 RG6-PC20



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上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

S12 型  
二房语音、数据平面图  
施工图

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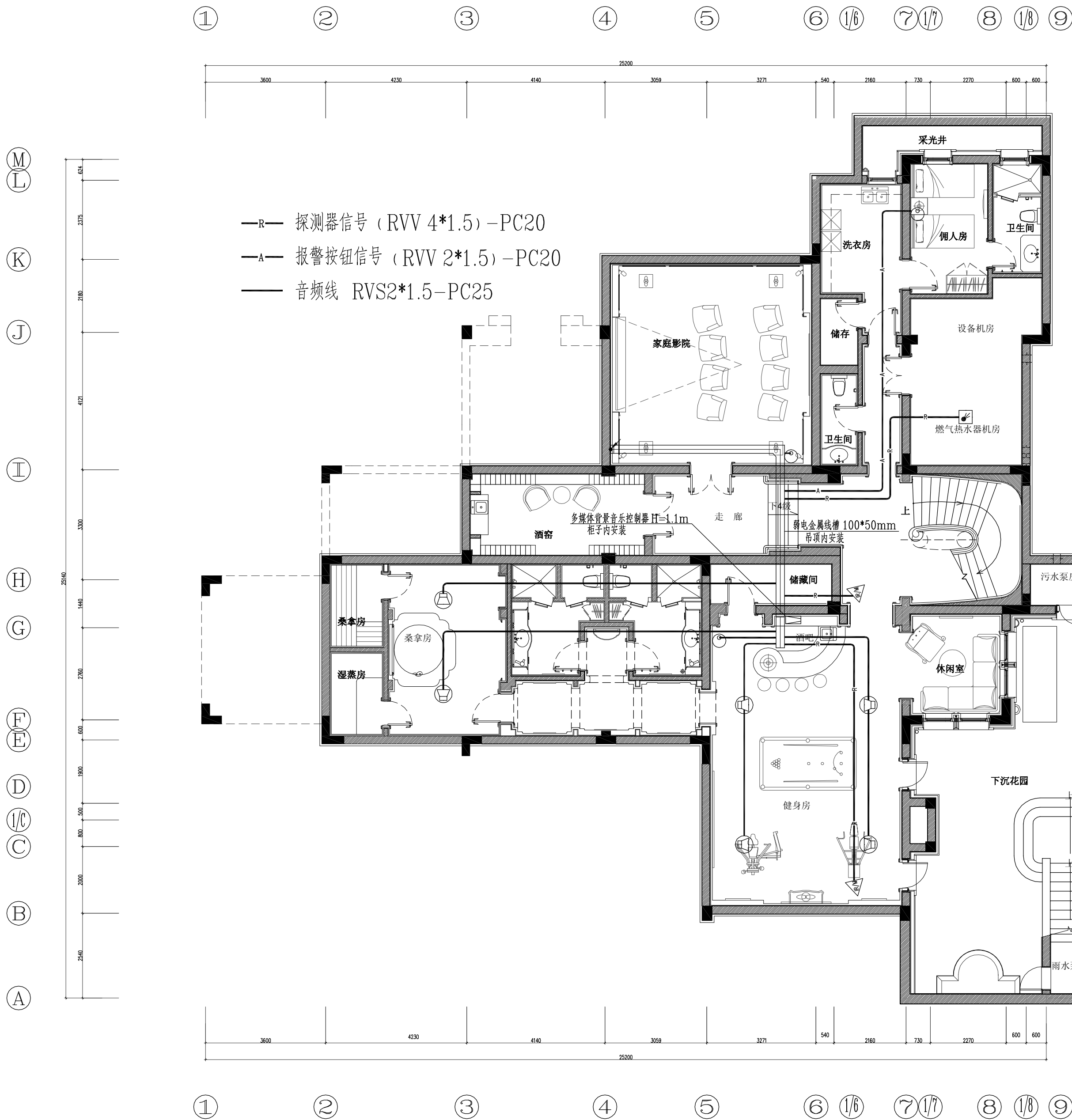
NO.	DATE	REVISION
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DRAWN \_\_\_\_\_  
DATE MAR,2009  
SCALE 1:100

PROJECT NO.  
SHEET NO.  
DQ-14

**S12 STYLE** 1:100  
二层语音、数据平面图





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SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

S12 型  
地下室安防平面图  
施工图

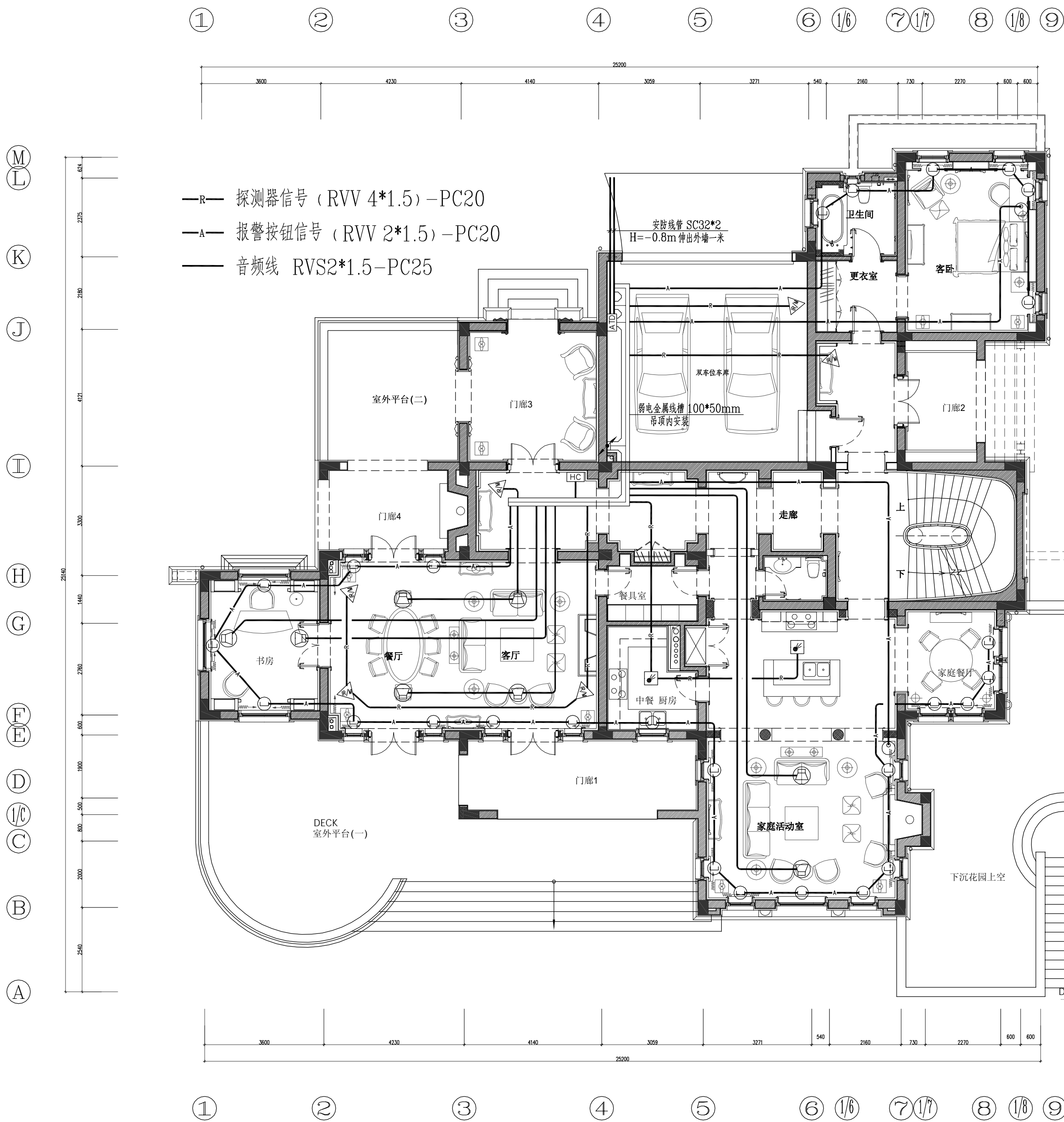
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DRAWN  
DATE MAR,2009  
SCALE 1:100

PROJECT NO.  
SHEET NO.  
DQ-15

S12 STYLE 1:100  
地下室安防平面图



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SHANGHAI ROSE GARDEN  
上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

S12型  
一层安防平面图  
竣工图

SHEET TITLE  
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DATE MAR,2009  
SCALE 1:100

PROJECT NO.  
SHEET NO.  
DQ-16

S12 STYLE 1:100  
一层安防平面图

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上海玫瑰园  
SHANGHAI CHINA  
中国 · 上海

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DATE MAR, 2009 \_\_\_\_\_

SCALE 1:100 \_\_\_\_\_

PROJECT NO.
SHEET NO.
DQ-17

