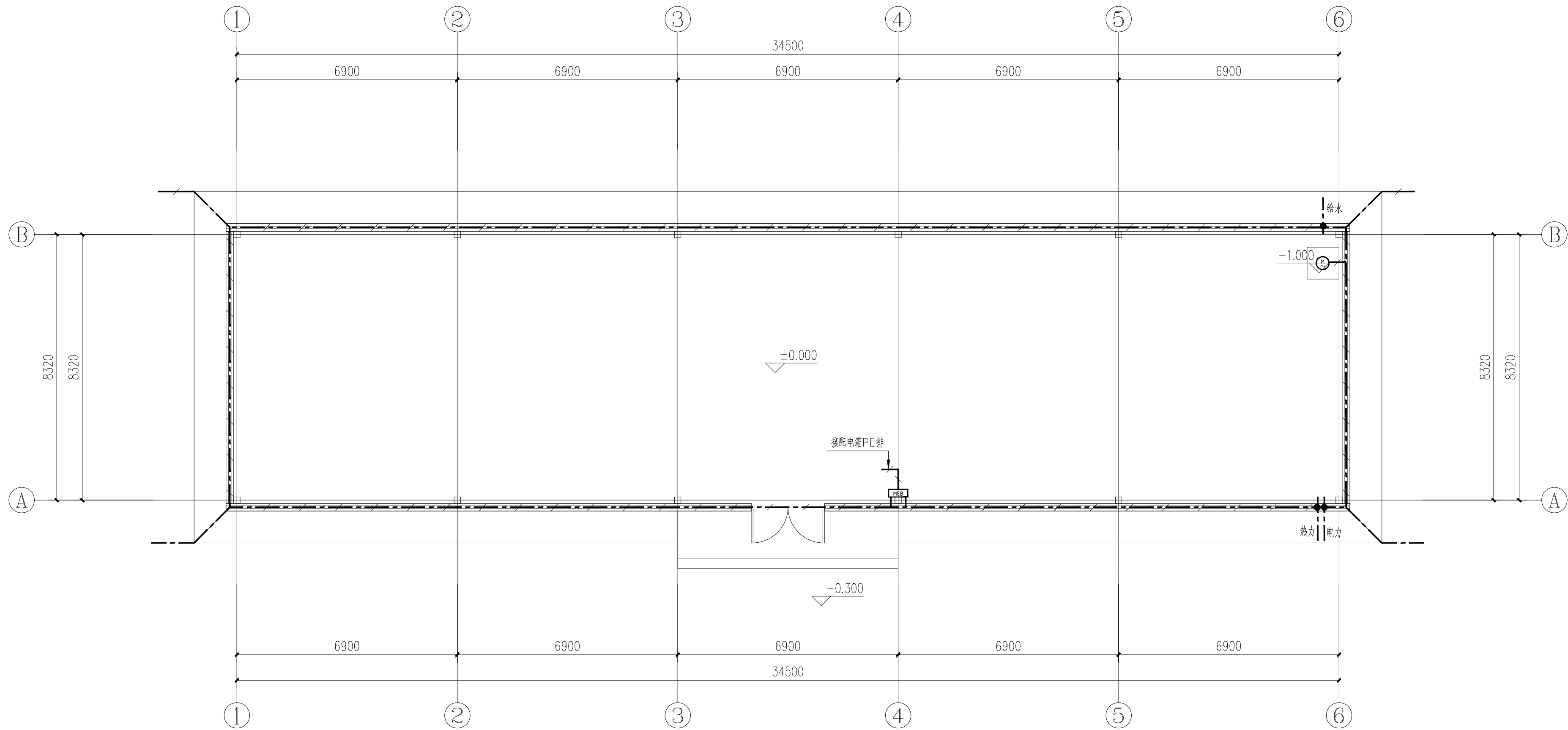


电气设计说明二

| | | | | | | | | | | | | | | | |
|----------------------|--|------------------|--|-------------------|--|---------|---|-------------------------|--|-----|---------------------------------------|-----|--|--|--|
| 6 | LED平板灯的灯具初始效能不应低于下表规定 | | | | | 十二 | 其他注意事项 | | | | | | | | |
| LED平板灯的灯具初始效能值(lm/W) | | | | | | 1 | 电气施工中应及时与土建专业配合,做好电气管线和各类电气设备固定构件的预埋工作,同时,可现场调整电气预留孔洞的位置尺寸,以便方便电气施工安装。 | | | | | | | | |
| 额定相关色温 | | 2700K/3000K | | 3500K/4000K/5000K | | 2 | 电气设备安装完毕后,对电气竖井内的电缆孔洞,预留孔洞以及导线、电缆桥架穿防火分区、防火分区、楼层处孔洞,均须采用防火材料作好密封处理,以满足防火要求。 | | | | | | | | |
| 灯具初始效能值 | | 95 | | 105 | | 3 | 电气管线穿过楼板和墙体时,孔洞周边应采取密封隔声措施。 | | | | | | | | |
| 7 | 本工程设计中涉及到的各类场所的照度标准及密度值均应按照《建筑节能与可再生能源利用通用规范》(GB 55015-2021)以及《建筑照明设计标准》GB 50034-2024确定。 | | | | | 4 | 凡有吊顶处,由楼板预埋盒至用电设备的导线若采用金属波纹管保护时,一定要选用阻燃型。 | | | | | | | | |
| 照明功率密度值计算表 | | | | | | 5 | 管线穿沉降缝具体做法详见《内线工程》12D8第228~234页。 | | | | | | | | |
| 主要场所 | | 光源 | | 参数 | | 照度值(Lx) | | LPD值(W/m ²) | | 6 | 凡与施工有关而又未说明处,参见国家、地方标准图集施工,或与设计院协商解决。 | | | | |
| | | | | | | 标准 | | 实际 | | 限值 | | 计算 | | | |
| 采光棚 | | LEDT8防水新灯 60W | | Φ=6000Lm Ra≥80 | | 200 | | 200.01 | | 6.0 | | 3.5 | | | |
| | | | | | | 7 | 消防配电设备应设明显标志。 | | | | | | | | |
| | | | | | | 8 | 设计文件中所标注的型号仅作参考表述,不作为直接定货的依据。 | | | | | | | | |
| | | | | | | 9 | 本工程所选设备、材料,必须具有国家级检测中心的检测合格证书(3C认证)。 | | | | | | | | |
| | | | | | | 10 | 安装工程、焊工、起重吊装工、电气系统调试等人员必须持证上岗、供安装、检测、调试用的各类计量器具应检定合格,且使用时应在检定的有效期内。凡与工程施工有关、说明未尽之处,请具备专业资质(技能)的电工人员严格参照现行有效的国标图集进行安装,并严格按照工程施工验收规范《建筑电气工程施工质量验收规范》GB50303-2015、按照现行有效的《GB50300》、《GB50575》、《GB50617》、《GB50601》、《GB50147~GB50150》、《GB50168~GB50173》、《GB50254~GB50257》、《GB50411》等国家规范进行施工验收,同时也应遵守国家强制性规范《GB55001~GB55037》,按要求施工验收。施工有疑虑之处,请电气施工人员及时与设计、监理、建设单位协商解决。 | | | | | | | | |
| | | | | | | 11 | 电产品质量是建筑电气工程质量的根本保证,工程中采购的电产品应符合设计文件技术参数要求、符合现行国家电产品制造标准的合格产品(设计文件中仅列出部分常用的产品标准,对于其他的相关产品标准,可登陆国家标准化管理委员会的官方网站“强制性国家标准全文公开”进行查询;为保证电气系统安全可靠、有选择性运行,同一电气系统的电产品,建议采购同一品牌的产品。);对已列入国家强制性认证产品目录的电产品,必须具有国家强制性认证标识,同时应具有认证证书。工程所采用的供电、防雷、消防等产品应在当地相关主管部门备案,并具有当地相关主管部门核准的入网许可证;其中,工程所采用的消防产品必须是通过消防部门核准、并在“中国消防产品信息网”官方网站公布的消防产品。 | | | | | | | | |
| | | | | | | 12 | 电气设备、材料、产品、半成品进场时必须进行验收,并取得检测合格报告,做好进场验收记录和资料归档工作。工程竣工投入使用后,消防设施应严格按现行国标《建筑消防设施的维护管理》GB 25201的要求进行维护管理;建筑电气装置投入使用后,应定期对电气系统进行周期性的检测和维护,使用单位不得擅自更改电气系统,以保证系统安全可靠地运行。 | | | | | | | | |
| | | | | | | 13 | 多根并联导体组成的回路在施工后采用钳表测定他们的电流是否相等或相近,如果不相等采用调整措施。 | | | | | | | | |
| | | | | | | 14 | 配电箱柜等安装断路器时,需根据相关产品说明书确定断路器安装安全距离等。 | | | | | | | | |
| | | | | | | 15 | 为设计方便,所选设备型号仅供参考,施工所确定的设备规格、性能等技术指标,不应低于设计图纸要求。所有设备确定厂家后均需建设、施工、设计、监理四方进行技术交底。 | | | | | | | | |
| | | | | | | 16 | 依国务院颁发的《建设工程质量管理条例》(第279号令),建设方、施工单位要做到:建设方应提供电源等市政原始资料,原始资料必须真实、准确、齐全。 | | | | | | | | |
| | | | | | | 17 | 由各单位采购的设备、材料,应保证符合设计文件及合同的要求。 | | | | | | | | |
| | | | | | | 18 | 施工单位必须按照工程设计图纸和施工技术标准施工,不能自行修改工程设计。施工单位在施工过程中发现设计文件和图纸有差错的,应当及时提出意见和建议。 | | | | | | | | |
| | | | | | | 19 | 建设工程竣工验收时,必须具备设计单位签署的质量合格文件。 | | | | | | | | |
| | | | | | | 20 | 建设单位应当向有关部门消防机构申请消防设计审核,并在建设工程竣工后向出具消防设计审核意见的消防机构申请消防验收。 | | | | | | | | |
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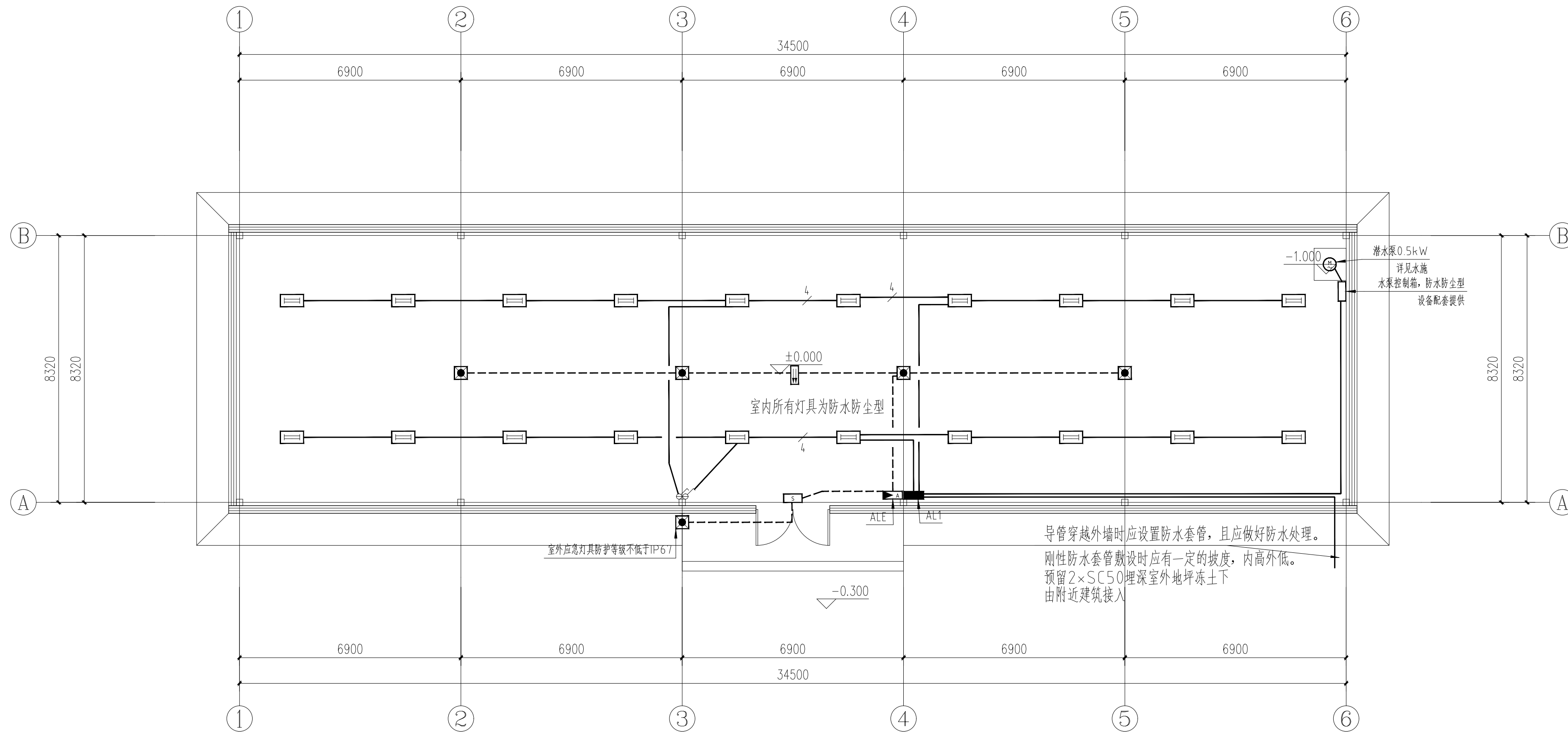
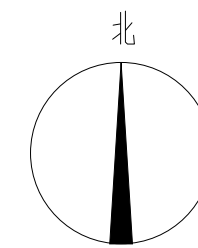


基础接地及等电位联结平面图 1:100

接地及等电位联结说明补充:

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|---|---|---|---|--|--|
| 1 | 本楼做总等电位联结,在保洁室设置总端子箱,箱内预留用紫铜板制做的等电位联结端子板,接地端子,端子箱底边距地0.5米明装具体做法参见《国标15D502》(等电位联结安装)P14。 | 5 | 用于增打接地板。 | | |
| | 等电位端子板做法参15D502-P28~34。 | 6 | 建筑物图示柱子外侧预埋接地电阻测试点,共4处,距室外地面0.5m。具体做法参12D10。 | | |
| 2 | 凡正常不带电,绝缘破坏时可能带电的电气设备的金属外壳,钢管,电缆外壳,金属支架等均应就近与接地扁钢可靠连接。需要联结的设施与该等电位端子箱内的端子板的联结线采用-40×4热镀锌扁钢沿地暗敷或沿墙明敷。所设等电位联结端子板同时就近与结构体内的钢筋联结。 | 7 | 卫生间局部等电位做法参15D502-P19【图中不再表示】。 | | |
| 3 | 水暖干管位置详见水暖施工图(以水暖施工图为准),联结线与管道联结做法参15D502-P35~37。 | 8 | 电源进线处做重复接地,做法见14D504-P122。 | | |
| 4 | 在本图测试钢板的位置下方距室外地坪0.8米,用40×4的镀锌扁钢引出距离建筑物外墙1.5米,做接地体。 | 9 | 建筑物地下一层或地面层、顶层的结构圈梁钢筋应连成闭合环路,中间层应在每间隔不超过20m的楼层连成闭合环路。闭合环路应与本楼层结构钢筋和所有专用引下线连接。 | | |
| | | | 本工程以基础内两层主筋沿建筑物外圈焊接成环,将主轴线上的梁及结构底板上下两层主筋互焊接成网做接地体。 | | |

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| 建设单位 | | | |
| 工程名称 | 古县职业中学现代职业教育质量提升餐厅改造、园林实训基地项目 | | |
| 图 名 | 基础接地及等电位联结平面图 | 专 业 | 电 气 |
| | | 图 号 | 电施-03 |



电气平面图 1:100

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|------|-------------------------------|-----|-------|
| 建设单位 | | | |
| 工程名称 | 古县职业中学现代职业教育质量提升餐厅改造、园林实训基地项目 | | |
| 图 名 | 电气平面图 | 专 业 | 电 气 |
| | | 图 号 | 电施-04 |