

Technical requirements of elevator civil engineering

1. All buildings in the shaft must meet the requirements of fire prevention and shall not be installed with unshielded elevator equipment, power supply, and unshielded cables.
2. The shaft must be vertical, which horizontal measurement is the minimum net size, and vertical error is $0 \sim 25\text{mm}/0 \sim 30\text{mm}/20\text{mm}$, $0 \sim 15\text{mm}/0\text{mm}$ and above.
3. If there is a space below the bottom of the pit that can be accessed by person, the counterweight buffer can be installed on a pier which is continuously extending to solid pier, or ask the elevator manufacturer how to install the counterweight safety gear.
4. Before the installation of the elevator, all landing door openings must be equipped with safety protection fence enclosures, which height is more than 1.2 meters, and it should be ensured that can bear the shown forces.
5. The enclosed shafts should be equipped with ventilation holes if needed generally at the top and bottom of the shaft, which area is not less than 1% of the horizontal area of the shaft. Protective nets should be installed on the ventilation holes.
6. The reserved holes for elevator hall door, call display and others need to be backfilled and decorated after elevator installation.
7. It is preferable for the elevator shaft to be made of concrete structure. If the shaft is a frame structure, the gate rail brackets should install a 300mm high concrete collar, and the upper and lower edges of hall door take on each floor should be installed a 300mm high concrete beam with the same width as the shaft. If the shaft is a solid bearing brick wall structure, and the upper and lower edges of hall door take on each floor should be installed a 300mm high concrete beam with the same width as the shaft.
8. When the distance between two adjacent hall door sill is over 11 meters, it should be set a safety door that is more than 350mm wide and 800mm high, which can't opens inward to the shaft.
9. The safety door should be equipped with lock can open with a key, it can be closed and locked without a key when the door is opened, and even if locked, it should be able to be opened from the inside of the shaft without a key.
10. The inner of pit should be waterproof. If there is a water pit, it should be set in the corner.
11. According to the requirements of technical parameters sheet, the power supply should be set in machine room and equipped with a locked protection switch. The range of power supply fluctuations should be less than $\pm 7\%$. The Neutral wire and earth line of the power supply must be separated, and the ground resistance must be less than 4Ω .
12. All loads indicated in the drawing include impact corrections, unless specified. And the strength of the shaft wall and pier must be ensured that can bear the shown forces.
13. The self-careen marked in the diagram (Pre-embedded steel stud, etc.) need to be present.
14. The temperature in the machine room should be maintained at $5 \sim 40^\circ\text{C}$, the machine room should be hot and must be able to withstand not less than 7Mm^2 per square meter that can bear the shown forces.
15. User should set up a rescue duty room which give a communication cable to machine room when the cable run distance less than 500 meters need to give a six core twisted shielded wire $3 \times 2 \times 20 \times 2\text{mm}^2$ when it bigger than 500 meters need to give a cat 5 cable. The standard value of the floor is uniformly distributed load.

User announcements

1. Technical requirements of elevator civil engineering is the most part of civil engineering arrangement should be rigorously followed. Anything not covered in this drawing is executed according to relevant clauses of the national elevator standard GB7588-2003.
2. If civil engineering works are not carried out in accordance with this Clause, the user are responsible to rework, from this the resulting consequence from the user.
3. If the size of shaft need to rework, please inform us in written form timely and get our recognition before make changes.

Drawing confirmation: the user unit fully agrees to manufacture according to the specifications of this drawing

Confirm: _____

Date: _____

Change at: _____

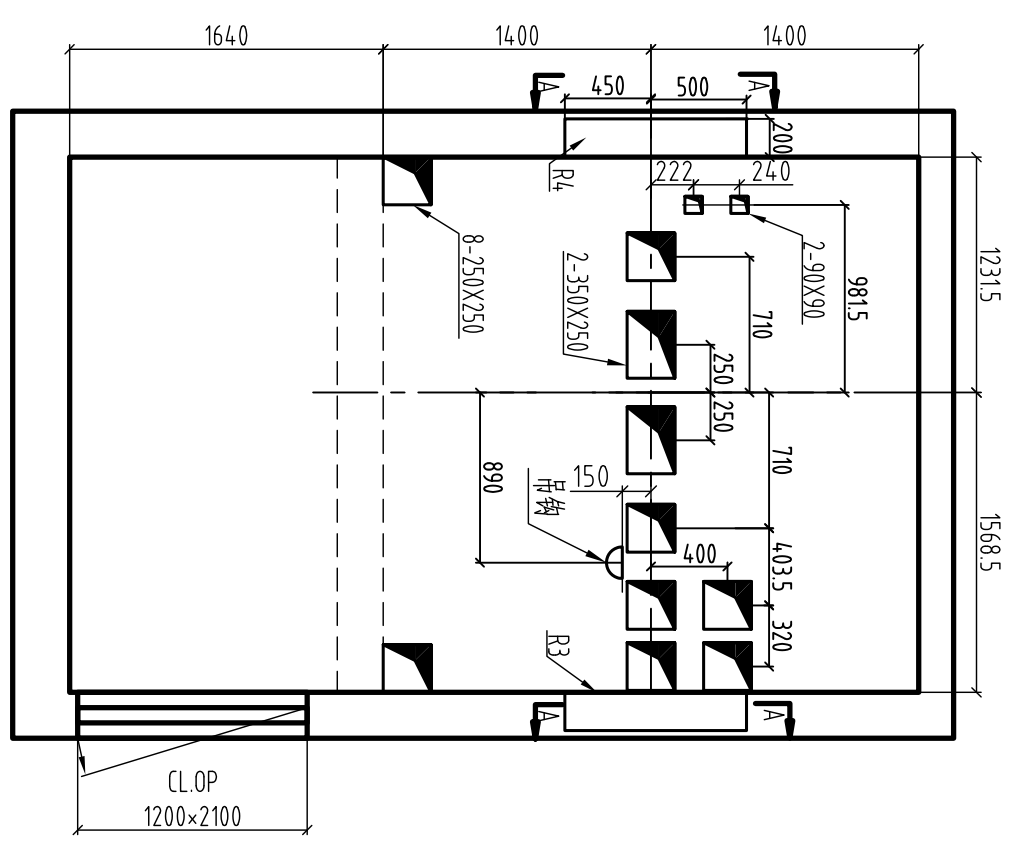
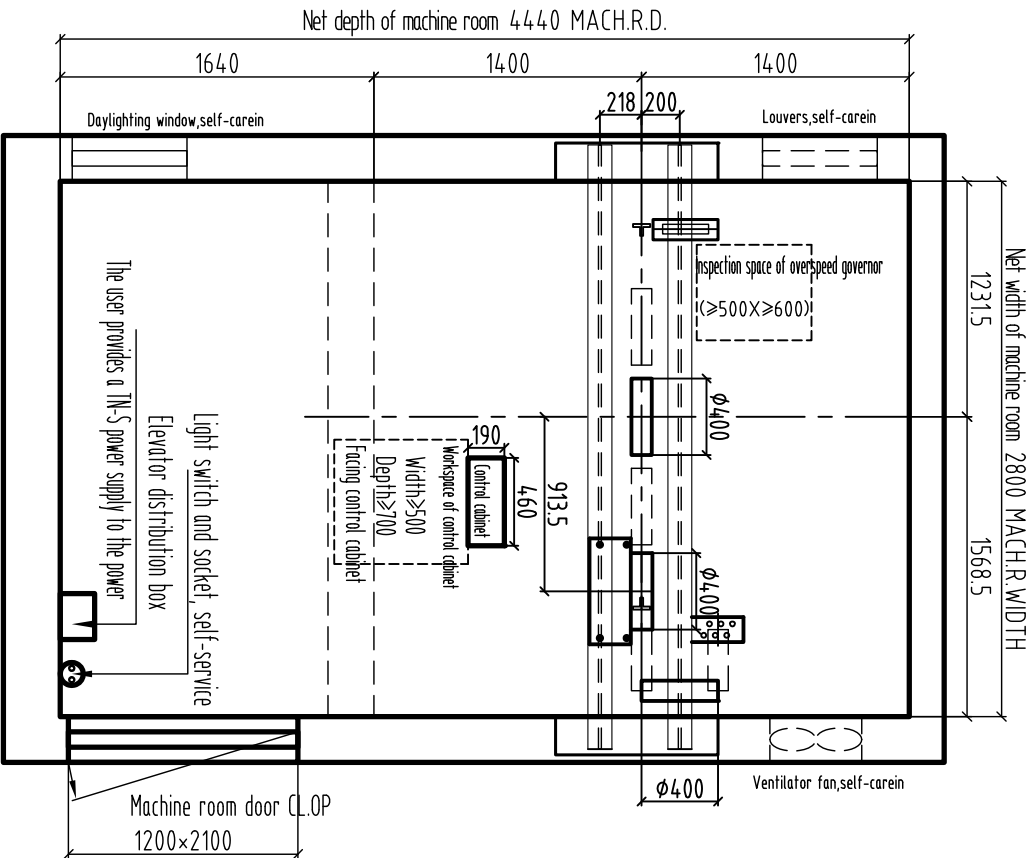
Name	Date	Change situation

Project name: _____

Contract No: _____

Civil engineering No: _____

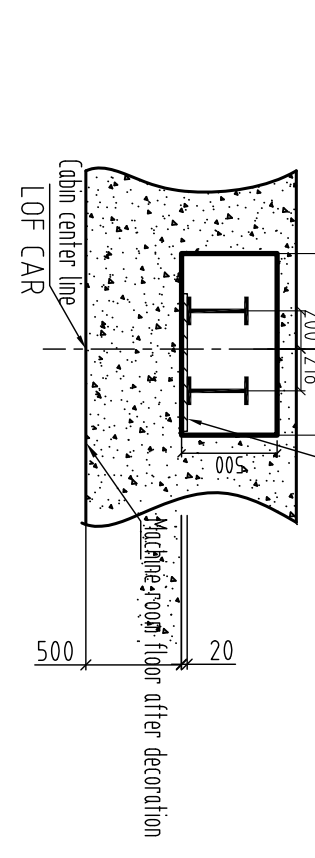
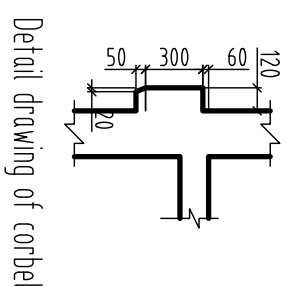
Drawing	
Verification	
Confirm	
Date	



Plane figure of machine room

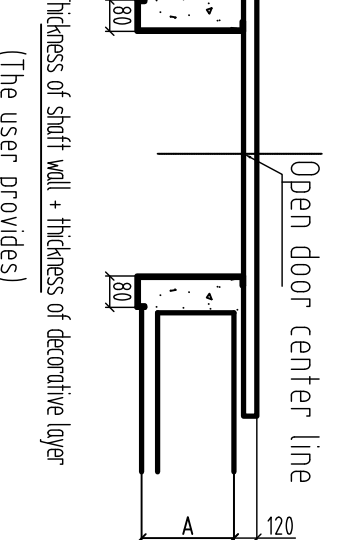
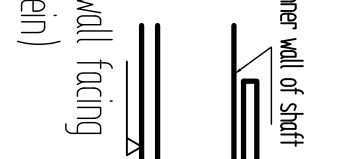
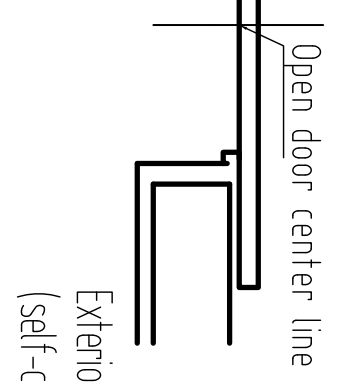
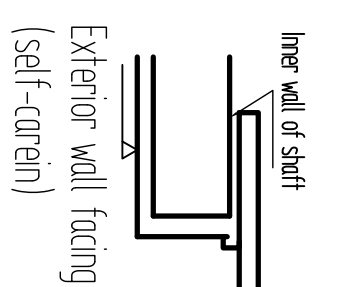
Foreseen hole diagram of machine room

Bearing steel plate 900X150X20 self-carein



A-A bearing hole

Reaction forces(KN)	Value
R1=	188
R2=	148
R3=	126
R4=	126
RR=	75.5



Schematic diagram of narrow door jamb

Schematic diagram of wide door jamb

(The parameter table for the wide door jamb needs to be filled out during production.)