

The order of connection to the engineering infrastructure

The order of connection to engineering infrastructure is regulated by the Law of the Republic of Kazakhstan No. 242-II of 16 July 2001 «Architecture, Town Planning and Construction Activity in the Republic of Kazakhstan», Order No. 750 of the Minister of National Economy of the Republic of Kazakhstan of November 30, 2015 «Approval of the Organization Rules building and the passage of licensing procedures in the construction industry «(Building Regulations) and other normative legal acts in the field of architectural, town-planning and construction activities.

According to paragraph 18 of Article 1 of the law, the engineering infrastructure is a set of enterprises (organizations), objects (buildings and structures), communications and utilities, creating normal conditions for people's livelihoods, and the sustainable operation of production or circulation of goods and services.

In accordance with the Building Regulations, the implementation of any construction project is carried out on the basis of the relevant right to the land plot and the following stages:

1. Obtaining raw materials for the development of construction projects;
2. Approval of the draft design;
3. Designing and examination of construction projects;
4. Implementation of construction and installation works;
5. Acceptance and commissioning of the constructed object.

Source materials for the development of construction projects include:

1. architectural and planning task (hereinafter — APT);
2. technical conditions for connection to engineering and municipal services (hereinafter — technical conditions);
3. transverse profiles of roads and streets;
4. vertical planning marks;
5. copying from the detailed design project;
6. scheme of routes of external engineering networks.

The application for the provision of APT and technical specifications is submitted in accordance with Annex 1 to the Building Regulations to the structural subdivision of the local executive body (LEB) that performs functions in the field of architecture and town planning through the web portal of «e-government» or the State Corporation with the attachment:

1. an affirmed order for designing;
2. the title deed to the land plot;
3. a questionnaire in the form according to Annex 2 to the Building Regulations;
4. for individuals — an identity document.

The LEB, which carries out functions in the field of architecture and urban planning, sends to the providers of engineering and utility services a questionnaire for obtaining technical specifications.

Providers of engineering and utilities services within 5 (five working days) from the date of reception of the questionnaire and topographical survey prepare and send to the structural subdivision of the LEB carrying out functions in the field of architecture and town planning technical conditions with a preliminary scheme of routes of external engineering networks.

The structural subdivision of the LEB, which performs functions in the field of architecture and town planning, in the case of compliance of the planned construction with the approved detailed design project, prepares the following materials:

1. APT under the form according to Appendix 3 to the Building Regulations;
2. copying from the detailed design project;
3. vertical planning marks;
4. transverse profiles of roads and streets;
5. scheme of routes of external engineering networks.

Materials and documents prepared by the structural subdivision of the LEB that performs functions in the field of architecture and town planning are sent to the State Corporation or placed on the web portal of «electronic government».

The technical conditions must contain complete information about the schemes for connecting the object to communications, and the works that must be performed for successful connection. They determine the connection points, the conditions of delivery and the size of the allocated capacities, specify measures for accounting and saving of consumed resources. In addition, the necessary environmental standards are included in the technical specifications.

Composition and content of technical specifications for

engineering support of the facility:

1. Connection to public networks of water supply and sewage:

- points of connection through water supply networks and sewage networks;

pressure in water supply pipelines; at the requirement of Technical conditions (TC) about checking of the existing network on the flow pass — the scheme of networks with the indication of the connected objects.

2. Heat supply:

- heat source;
- Heat carrier parameters (temperature in heating systems;
- pressure in the supply and return pipelines;
- connection point;
- designed scheme of heat supply;
- source of backup heat supply (if necessary);
- requirements for heat carrier accounting;
- balance and operational ownership of the projected heat networks and the border between the heat networks of the heat supply organization and the consumer.

3. Electric power supply:

- supporting source of power to which the projected networks are connected;
- the amount of work to be done on the supporting source of power to connect the projected networks;
- level of voltage on sources of power;
- three-phase short-circuits currents of on the source buses in the maximum and minimum modes;
- Ground fault currents;
- type of cameras, types of relay protection and recommendations for selecting settings (specified technical parameters, set mode or value, for example, the value of the current at which the protection should trigger);
- recommendations for choosing cables, complete parameters of cables to be taken or transferred, loads on existing cables in normal and emergency modes;
- schemes and plans for existing network facilities (if necessary);
- list of telecontrol signals;
- Requirements for electricity metering;
- Limits of liability and operating conditions

4. Gas supply:

- point of connection to gas supply networks;
- gas pressure at the connection point.

5. Telephone Installation:

- indication of the source of the network (PBX, hub, cabinet);
- indication of the place of accession;
- Passport of line input in the automatic telephone station, indicating (if necessary) the type of protective frames installed in the cross-country network and their capacity;
- the scheme of the existing telephone sewerage, intended for laying in it a telephone cable to the construction site;
- Scope of work required for the implementation of telephonization of the facility (additional work).

6. Radiocommunications:

- The place of connection to the network;
- the amount of work required to perform the connection to the radio network.

7. Television:

- configuration of the proposed system;
- Signal levels of the received TV channels in the construction zone;
- Recommended type of system equipment;
- Situation diagram showing the place of connection to the existing network.

Obtaining and agreeing technical specifications can take a long time, because each part is formalized in the appropriate authority.

In addition, if the proposed communication route passes through land plots that do not belong to the customer, it will be necessary to agree separately with the owners of each of them.

Documents are prepared for free. You can find out the detailed requirements for obtaining specifications in the architecture management, as well as with service providers in your village.

After this procedure, you should order engineering network projects. Gas supply and electricity supply will require separate documents, for water supply and sewerage — one common.

Next, you need to approve them with service providers and in the architecture administration and you can proceed with the laying of communications, the insert to the backbone networks.