

Translated from Ukrainian

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General Director of
Public Utility
“Kharkivski teplovi merezhi”

Agreed
Project Coordinator
Deputy Minister of Regional Development,
Construction and Housing and Utilities
Infrastructure in Ukraine on the Matters of
European Integration

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PUBLIC UTILITY “KHARKIVSKI TEPLOVI MEREZHI”
UKRAINE DISTRICT HEATING ENERGY EFFICIENCY PROJECT
Loan contract dated 26.05.2014 No.8387-UA
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ENVIRONMENTAL AND SOCIAL MANAGAMENT PLAN
(for the projects of B category)

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List of abbreviations

PROJECT	The common with International Bank for Reconstruction and Development project “Ukraine district heating energy efficiency project ”
ПЕСУ/ESMP	Environmental protection and social management plan
НПС/OPS	Oil pump station
ТЕЦ/CHP	Combined heat power plant
ІТІП/IHP	Individual heating plant
ЦТІП/CHS	Central heat station
ГВП/HWS	Hot water supply
ХВП/CWS	Cold water supply
МК/MCh	Main chamber
РДП/ADCC	Area dispatch control center
АСКОЕ/ACPMS	Automated Commercial Power Metering System
ПКД/DED	Design and estimate documentation
СІТ/DHS	Kharkiv District heating system
ЦГУП/CPMU	Central project management unit
РГУП/RPIU	Regional project implementation unit
ОБІС/EIA	Environment impact assessment
ІФС	International Finance Corporation
EHS	Environmental, Health, and Safety approaches

1. INTRODUCTION

1.1. General information on the PROJECT

The PROJECT designed to improvement of district heating supply system of Kharkiv and its efficiency and as a result in improvement of heat supply and hot water supply services to consumers.

Due to the PROJECT it will be achieved considerable economy of fuel and energy resources (fuel – natural gas, electrical energy, water) and reduce operational costs of the plant at expense of performance of reconstruction and modernization of the equipment of heat sources, heating plants, heat networks and development of the automated management and control systems.

The PROJECT composes of the components (sub-projects) in the housing and utilities sector of the city, namely as follows:

1. Construction of cogeneration plants.
2. Decommissioning of boiler houses, installation of heat individual heating stations and reconstruction of heating networks.
3. Reconstruction of boiler houses.
4. Installation of the individual heat stations in the residential houses.
5. Installation of heat meters and other mechanical and electrical equipment in the heat supply station of the residential houses.
6. Commissioning of steam turbo generator and reconstruction of steam boiler at CHP-3.
7. Modernization of the pump stations and boiler-houses with reconstruction of distribution facilities 6 kV, replacement of pumpsets and installation of frequency converters for electric motors of pumps.
8. Reconstruction of heating networks.
9. Implementation of automation, dispatching and commercial consumption energy measurement systems.
10. Implementation of SCADA system.

The PROJECT of total cost 107.59 mln. USD will be executed for a period of 6 years from 2015 to 2020 inclusive.

1.2. ESMP development objective

Environmental and social management plan (ESMP) analyzes ecological and social issues connected with selected components in heat supply area, in accordance with requirements of the World Bank in relation to provision of protection of the environment and protection of population.

ESMP development objective is provision of execution of all the necessary measures and actions to minimize potential influence of the project on the environment and population.

The main ESMP tasks are as follows:

- 1) identification of site-specific major environmental and health and safety impacts (including emissions, earthworks, vegetation clearance, waste amounts etc.);
- 2) identification of complex of measures to reduce negative and increase positive environmental and social influence;
- 3) identification of complex of measures on monitoring and control;
- 4) identification of institutional structure, that will be responsible for ESMP implementation;
- 5) identification of schedule of works performance and their cost;
- 6) development of institutional capabilities and training.

This is PROJECT-level ESMP developed for the benefit of overview of overall PROJECT-related impacts, applicable standards and proposed mitigation and monitoring measures.

Site-specific ESMP's will be developed based on the environmental and social screening checklists by RPMU with the assistance of CPMU and submitted to the Bank for review and clearance. Site-specific ESMPs will be disclosed locally and discussed with interested stakeholders. Any civil works will not start before site-specific ESMP have been consulted and approved by the Client and the Bank.

2. LEGISLATIVE FRAMEWORK, LICENSES AND PERMISSIONS

2.1. Legislative framework

The environment protection, rational use of the natural resources, providing environmental safety of human life and activities are the most important components of the PROJECT and regulated by the numerous national laws, legal acts and norms.

The basic and directive law constructing all the environmental legislation of Ukraine is **Act of Ukraine “On Protection of Natural Environment” dated June 25, 1991 No.1264-XII**, which determines tasks and objectives of the environmental policy, directed to preservation of safe existence of the animated and inanimate nature, protection of life and health of population against negative influence, prevention of contamination of the natural environment, achieving of harmonic interaction of community and nature, rational using and reproduction of the natural resources.

Act of Ukraine “On Protection of Atmospheric Air” dated October 16, 1992 No.2707-XII. Atmospheric air is one of the basic vital elements of the natural environment. This Act is directed to preservation of favorable state of atmospheric air, its recovery and improvement to provide the environmental safety of human life and activities, as well as prevention of harmful effect on the natural environment. It determines the basic and organizational essentials and environmental requirements in the field of protection and using of atmospheric air.

The Water Code of Ukraine dated June 06, 1995 No.214/95-BP provides integrity and efficient use of waters, water protection against contamination, improvement of condition of water objects and protection of the rights of water users.

Act of Ukraine “On Wastes” dated March 05, 1998 No.187/98-BP determines legal, organizational and economic principles of activity, connected with prevention or reduction of the waste volume, their collection, transportation, storage, processing, utilization, as well as negative influence of waste on the natural environment and human health.

The Land Code of Ukraine dated October 25, 2001 coordinates land relations with purpose of provision of the efficient use of lands, equitable development of all the forms of land ownership, preservation and reproduction of land capability, improvement of the natural environment, protection of the rights of individuals and entities for land.

Act of Ukraine “Concerning Provisions for Sanitary and Epidemiological Welfare of Population” dated February 24, 1994 No.4004-XII regulates public relations, appearing in the field of provision for sanitary and epidemiological welfare, determines appropriate rights and obligations of the state authorities, enterprises, offices, organizations and citizens, establishes the order and carries out state sanitary and epidemiological supervision in Ukraine.

Act of Ukraine “On Ecological Expertise dated February 09, 1995 No.45/95-BP determines research and practice activities of the authorized state bodies, ecologic-expert formations and unions of citizens, based on the inter-industry ecological research, analysis and evaluation of pre-project, project and other materials or the objects, realization and action of which can affect adversely or affects on condition of the natural environment and directed to preparation of summaries of correspondence of the planned or performed activities to the norms and requirements of legislation of protection of the natural environment, efficient use and reproduction of the natural resources, provision of the environmental safety. Validity period until December 18, 2017.

Act of Ukraine “On Wastes” dated March 03, 1998 No.187/98-BP determines legal, organizational and economic principles of activity, connected with prevention or reduction of the waste volume, their collection, transportation, storage, sorting, processing, utilization and removal, sterilization and dumping, as well as with diversion of negative influence of waste on the natural environment and human health at the territory of Ukraine.

The Law of Ukraine «On Environmental Impact Assessment» establishes the legal grounds and organizational principles of the environmental impact assessment, aimed at preventing environmental damage, ensuring environmental safety, environmental protection, rational use and

management of the natural resources, in the process of making decisions on the performance of economic activity, which may have a significant impact on the environment, taking into account state, civil and private interests

Comes into force since December 18, 2017.

Aarhus Convention of access to information, participation of community in the process of making decisions and access to justice on questions, concerning the environment in version of 1998, is directed to protection of the rights of each person to live in the environment, favorable for his health and welfare, guarantees the rights for access to information, participation of community in the process of making decisions and access to justice on the questions, concerning the environment.

Operational policy of the World Bank OP/BP 4.01 “Environmental assessment”. This policy is applied in case of the evident causing by the project of the potential (negative) environmental risks and effects in the area of realization of sub-projects. OP/BP 4.01 embraces effects on the environmental natural environment (air, water and soils), health and human safety; material cultural heritage; trans-border and global environmental questions.

Operational Manual OP 4.12 - Involuntary Resettlement. OP 4.12 covers direct economic and social impacts are caused by the involuntary taking of land or the involuntary restriction of access to legally designated parks and protected areas resulting in adverse impacts on the livelihoods of the displaced persons. This policy is applied where it isn't feasible to avoid resettlement.

Program Level Environmental and Social Assessment (PLESA) for modernization district heating systems in cities Ivano-Frankivsk, Kamenets-Podilskii, Kharkiv, Kherson, Mykolaiv and Vinnytsia (2014) is directed to performance of research of condition of the natural environment and human health according to provisions of the Operational policy of the World Bank.

World Bank IFC EHS guidelines. The General EHS Guidelines contain information on cross-cutting environmental, health, and safety issues potentially applicable to all industry sectors. This document should be used together with the relevant Industry Sector Guideline(s).

DBN 2.2-1-2003 “Composition and content of EIA materials when designing and constructing of enterprises, buildings and facilities”. These construction norms establish the order of development of materials of evaluation of influence on environment (EIA) as part of the project documentation for the new construction, extension, reconstruction and engineering re-equipment of the objects of industrial and civil purpose (hereinafter referred to as planning activity), basic requirements to composition and contents of these materials.

DBN 2.2-3-2014 “Composition and content of the project documentation for construction” establishes composition and contents of the project documentation for new construction, reconstruction, overhaul and engineering re-equipment of the buildings, facilities of any purpose, their complexes or their parts, linear objects of engineering-transportation infrastructure.

DNAOP 0.00-1.07–94. Regulations of design and safe operation of pressure vessels

NPAOP 0.00-1.60-66 Safety Operation and Design Codes for Steam and Hot Water Boilers

NPAOP 0.00-1.26-96 Rules of construction and safe operation of steam boilers with steam pressure no more than 0.07 MPa (0.7 kGs/cm²), hot-water boilers and feed-water heaters with heating temperature of no higher than 115⁰C.

DNAOP 1.1.10-1.02-01 Rules of safe operation of thermal and mechanical equipment of electric power plants and heat networks.

2.2. Licenses

The current licenses of the public utility “Kharkivski teplovi merezhi” to provide the basic activity (Annexes 1-3):

License to the right of execution of the economical activity concerning production of heat energy (except for the activity on heat energy production at combined heat and power plants, thermal power plants, nuclear power plants and cogeneration plants and the plants with use of nontraditional and renewable power sources). Series AB No.597472. License validity - perpetual. National Commission Resolution No. 446 dated March 30, 2017.

License for the right of performance of the economical activity on transportation of thermal energy with main and local (distribution) heat networks. Series AB No.597473. License validity - perpetual. National Commission Resolution No. 446 dated March 30, 2017.

License for the right of performance of the economical activity on supply of heat energy. Series AB No.597474. License validity - perpetual. National Commission Resolution No. 446 dated March 30, 2017.

License for production of heat supply at combined and power plants and the plants with use of nontraditional and renewable power sources. Series АГ No.500402. License validity from March 30, 2011 to March 02, 2021 Date of issue – March 30, 2011. Issued by the National Commission of regulation of electric-power industry of Ukraine.

License for generation of electric power. Series АГ No.500278. License validity from March 3, 2011 to 02.03.2021 Date of issue – March 3, 2011. Issued by the National Commission of regulation of electric-power industry of Ukraine.

2.3. Permissions

To perform its activity public utility “Kharkivski Teplovi Merezhi” have all the required permission in the field of environment protection (Annexes 4-6).

No	Permission name	Permission number	Validity term	Note
1	Permission for special water consumption	Ukr. No.04.01-10-872 A/Khar.	13.05.2016-14.05.2019	Annex 4
2	Permission for waste disposal	No.KKomin 96	01.01.2014 - 31.12.2014	Annex 5
3	Permission for emissions of pollutants into the atmospheric air by stationary sources	according to Register (Annex 25)	according to Register (Annex 26)	Sample of one permission indicated in Annex 6

Register of Permissions for emissions of pollutants into the atmospheric air by the stationary sources as of January 01, 2017 in terms of the district branches is given in Table form in Annex 25.

By the Act of Ukraine dated April 09, 2014 No.1193-VII “On Amendments being made to the legislative acts of Ukraine relatively to reduction of number of approval documents”, which had come into force since April 26, 2014 the permission was cancelled for disposal of waste and the limits for formation and disposal of waste.

In accordance with Article 17 of the Law of Ukraine “On Wastes”, as amended by the law, economic entities in the field of waste management are obliged to have a permit for the waste management (permit for the implementation of waste management operations if their activity lead to the formation of waste, for which IGWF (indicator of the general waste formation) exceeds 1000

Economic entities in the field of waste management, whose activities leads to the formation of waste, for which IGWF from 50 to 1000, are obliged to submit annually a declaration of waste)

Ministry of Natural Resources of Ukraine has developed the project of resolution of Cabinet of Ministers of Ukraine “Of approval of the order of issue of permissions to carry out operations in terms of handling with waste and submission of waste declarations” which was submitted for consideration of the Government.

At present time the order of issue of the specified permission is not adjusted legally.

Regarding finishing validity term of permission for waste disposal and permission for disposal of dangerous waste PU “Kharkivski Teplovi Merezhi” by letter dated January 29, 2015

applied to the Department of environment and natural resources of Kharkov regional state administration, to which by letter dated February 06, 2015 No. 04.02 -17-827 clarification was provided. The clarification letter is described in Annex 26.

3. CHARACTERISTICS OF THE CURRENT HEAT SUPPLY SYSTEM

Kharkov is the second largest city of Ukraine with population of 1.5 million people. Historically Kharkov was one of the most developed cities of the former Soviet Union in industries, in which they produced tractors, steam turbines, military equipment and other important products. The main territory of the city is densely built-up. In the old-time quarters the majority of buildings are one-storey and five-storey ones. The five-, nine- and sixteen-storey residential buildings are concentrated in relatively modern districts of the city. Mainly the heat load placed on residential sector in the city. Separate industrial areas consume minor amount of heat.

In Kharkov the closed heat supply system is applied. The current heat supply system contains several kinds of schemes, connected with each other and at the same time functioning autonomously and completely autonomous. DHS/District Heating System is most developed, allowing to carry out interaction of different sources of heat energy generation: combined heat and power plants with district and quarter boiler houses.

District heating system embrace more landscaped districts of the city with built-up environment, mainly, with multi-storey buildings. Main heating system runs by radial and circular principle from the thermal sources.

Heating DHS system allows heat sources to interact. In this case each heat source has its separate area of heating supply.

In operation of the enterprise is 1603 km of heating system in 2-tube counting at diameter up to 1200 mm, run in the underground passed, semi-passed and non-passed channels, as well as above ground at trestles.

The majority of heating mains were laid in the non-passed reinforced concrete channels with isolation from rock wool, which often is damaged for different reasons. Heating mains are protected from ingress of underground and other water not everywhere, which damage thermal insulation, lead to metal corrosion of pipelines and structures, as well as to occurrence of cracks and ruptures of pipes with heat carrier leakage.

In DHS there working 11 OPS of total consumed electrical power over than 25 MW, provided to increase carrying capacity of heat networks and provide necessary hydraulic modes in the end points.

The utility consists of 9 heating supply branches, located in each administrative district of the city, branch of CHP-3 and auxiliary services, providing stable functioning of the utility.

The installed heat power of its own sources of the enterprise constitutes over than 4.5 thousand Gcal/h. Heat energy is generated by 249 boiler houses and CHP with total number of boilers – 601. At present time all the boiler houses operate on the gaseous fuel, the basic heat loading is carried by the boilers of high and average heating capacity: PTVM-180, PTVM-100, PTVM-50, PTVM-30, TVG, KVG and others.

The most powerful heating sources are CHP-3, with heating capacity 1353 Gcal/h and district boiler houses: Saltivskii residential area (780 Gcal/h), Shevchenkivskii (Dzerzhinskii) district (300 Gcal/h) and Slobidskii (Kominternivskii district) (400 Gcal/h), as well as CHP-4 (680 Gcal/h), operating in the mode of boiler house. The consumers who are located beyond the area of district heating, services by the local and quarter boiler houses within the borders of one or several quarters, as well as integrated basement boiler houses within the borders of one or several buildings.

203 CHS and 86 IHP are connected to the heat networks, at which water heating-up is carried out for needs of centralized hot water supply and distribution of heat carrier through residential blocks to the heat supply stations of the local heating systems of consumers.

For needs of hot water supply the cold water of “drinking” quality is used. The majority of heat supply stations use plate heat exchangers. Water from hot water supply system for the majority of residential and public buildings is subject to heating-up at level of heat supply stations and distributed through the system of pipelines. Operating life of the majority of heat supply stations exceeds 20 years.

By output of heat supply the public utility “Kharkivski Teplovi Merezhi” is one of the largest enterprises in Ukraine, and DHS remains most developed compared to the other CIS cities.

The public utility “Kharkivski Teplovi Merezhi” carries out production, transportation and distribution of thermal energy for all the groups of consumers of Kharkiv, connected to the district heating, including to more than 6100 residential buildings. Hot water supply services are provided for over than 880 000 people.

Annual thermal energy production by the plant amounts over than 5 mln. Gcal, and still around 2 mln. Gcal is purchased from the other producers; mainly this is Kharkiv CHP-5.

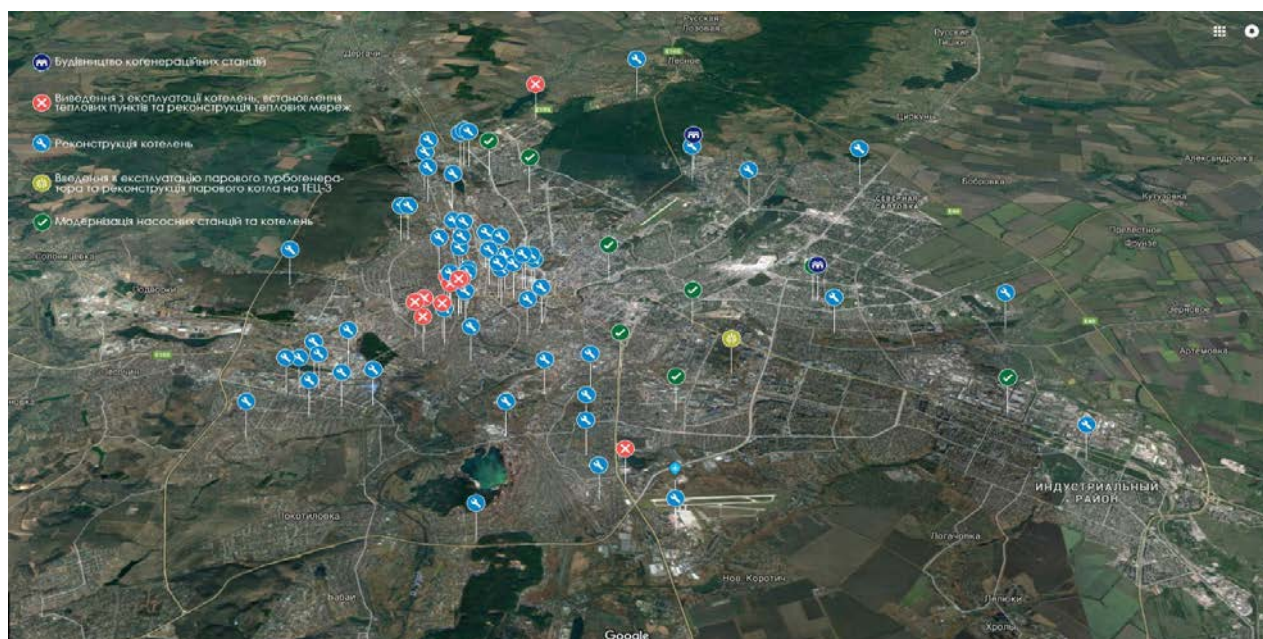
4. CHARACTERISTICS OF THE PROJECT ACTIVITIES AND LOCARTION, WHERE THE PROJECT WILL BE EXECUTED

4.1. Description of the components of the project activities

On the map (picture 4.1.1) below shows the location of objects in the city of Kharkiv in the following directions of the PROJECT:

- construction of 2 cogeneration plants;
- decommissioning of 12 boiler houses, installation of heat individual heating stations and reconstruction of heating networks;
- reconstruction of 58 boiler houses;
- commissioning of steam turbo generator and reconstruction of steam boiler at CHP-3;
- modernization of the pump stations and boiler-houses with reconstruction of distribution facilities 6 kV, replacement of pumpsets and installation of frequency converters for electric motors of pumps.

Tentative schedule for PROJECT implementation is provided in section 4.4. Information on civil works timeline would be defined at later development stage and clearly communicated during public consultations in site-specific ESMPs.



Picture 4.1.1- The map of Kharkiv with object of PROJECT

- - reconstruction of 58 boiler houses;
- - decommissioning of 12 boiler houses, installation of heat individual heating stations and reconstruction of heating networks;
- construction of 2 cogeneration plants; [OR1]
- modernization of the pump stations and boiler-houses with reconstruction of distribution facilities 6 kV, replacement of pumpsets and installation of frequency converters for electric motors of pumps;
- - commissioning of steam turbo generator and reconstruction of steam boiler at CHP-3.

4.1.1. Construction of cogeneration plants

Construction of 2 cogeneration plants at the district boiler houses is expected, allowing to provide in-house needs in the electric energy, increase electric power supply reliability, get extra thermal energy due to utilization of effluent gases as a result of operation of cogeneration modules, as well as increase efficiency of the thermal source operation as a whole. Besides, due to generation of intrinsic electric energy at heat source the costs of bought-out electric energy from energy-supplying organization will be reduced.

The basic expected results of the component implementation:

- cost reduction of the electric and heat energy compared to separate production, due to achieving around 15% economy of natural gas, by way of utilization of products of combustion of gas-fired plant (mainly combined production);
- improvement of the ecological state of environment, connected with reduction of polluting emissions, as well as thermal atmosphere contamination, at approximate reduction of CO pollutants nearly 400 000 tons for a period of the project implementation.

The objects at which construction of cogeneration plants is provided are described in Table 1.

Table 1. List of objects on the component “Construction of cogeneration plants”.

No.	Object, address	Land use planning documents	District name	Number picture and Annex
1	boiler house, 4, Artema Vedelia (Stoletova) str.	Extract from State Register No.88154692 dtd. 26.05.17	Moskovskii	Picture 4.1.1.1. Annex 7
2	boiler house, 1, Akademika Proskury str.	Extract from State Register No.86419299 dtd. 04.05.17	Kyivskii	Picture 4.1.1.2. Annex 7

Production site of the boiler house at the address 4 Artema Vedelia Street (Stoletova) borders:

- from the north - transport branch of the Public Utility “Kharkivski teplovi merezhi”;
- from the north east - warehouses, land of Kharkiv Technical Center "Beryska"
- from the east - Service station production association "Komunar";
- from the south-east - bakery "Slobozhanskyi";
- from the south - PU production and technological enterprise "Voda";
- from the southwest - boarding school No.14 (distance from the nearest source of emissions is 80 m);
- from the west, Artema Vedel Street, where the houses of a private sector are located. The nearest residential house is located at a distance of 60 m from the nearest source of emissions.

The object of the Public Utility “Kharkivski teplovi merezhi” boiler house at the address 1 Academician Proskuri street is located on the territory of the Scientific Production Enterprise "Khartron-Plant". Neighboring boiler houses objects and territories are:

- from the north-forest park;
- from the south and from the east - manufacturing building of the Scientific Production Enterprise "Khartron-Plant";
- from the west - residential houses.

The nearest residential house is located 65m from the nearest source of emissions.

Construction of the cogeneration station will be carried out during 30 months. Completion of construction – 4 quarter of 2018.

The Situation Plans of objects location are given in Annex 7.

Construction documents were developed in 2010 in full for the construction site at the boiler house at the address 4 Artema Vedelia Street and had passed her state expertise. Public hearing was held on this issue, developed as a separate pre-project part, an EIA section (Annex 16), held public hearings, etc. (Annex 18).

The EIA section will be reviewed in accordance with the norms of legislation.

Taking into consideration the specifics of the operation of cogeneration plants and the proximity of residential buildings to the sanitary zone of the boiler-house at the address 1 Akademika Proskury street., an ESIA section will be developed as part of the design documentation, and disclosed before the start of the civil works. Information leaflet about the planned interventions under the project will be posted accordingly.

4.1.2. Decommissioning of boiler houses, installation of individual heating stations and reconstruction of heating networks

It is expected to decommission boilers (closing) of 12 boiler houses. The provision of the heat supply is expected at the expense of the pipelines laying and installation in the premises of the boiler-house being liquidated, of the heating unit, from transferring the heat load to the heat source of the district heating supply systems, or else that is next to it, with better performance indicators.

During performance of the project works they will determine the points of connection to district heating system.

The existing main and auxiliary boilers equipment are deteriorated and obsolete, which reduces operational reliability and quality of heat supply.

Also, valid DBN B.2.5-20-2001 "Gas supply" prohibits the introduction of the gas pipelines in basements. Construction of roofing is allowed, with a restriction of gas pressure of 0.6 MPa.

Economic effect from implementation of this component is achieved at expense of the following factors:

- reduction of natural gas consumption at amount of 142 000 m³; (reduction of specific fuel consumption by 30-50 kg of gr.pr. for 1 Gcal generation);
- reduction of electric energy consumption at rate of 11 000 kWh
- decrease of emissions of greenhouse gases around 4.0 thousand tones;
- payroll budget economy (operators of boiler houses);
- reduction of costs, connected with operation and contents of the outdated equipment in sound condition.

Boiler houses, subject to closure (decommissioning) are given in Table 2.

Table 2. List of objects on the component
“Decommissioning of boiler houses, installation of individual heating stations and reconstruction of heating networks”

No.	Object, address	Land use planning documents	Administrative district of city	Number picture and Annex
1	boiler house No.1, 77, Peremohy ave.	Boiler house is embedded into residential building (roof). No Leave and License Agreement.	Shevchenki vskii	Picture 4.1.2.1. Annex 8
2	boiler house No.2, 77, Peremohy ave.	Boiler house is embedded into residential building (roof). No Leave and License Agreement.	Shevchenki vskii	Picture 4.1.2.1. Annex 8

3	boiler house, 199/2, Gagarina ave.	Extract from State register No.67697242 dtd. 09.09.16	Slobidskyi	Picture 4.1.2.3. Annex 8
4	boiler house, 2B, Yudina str.	Extract from State register No. 77020204 dtd.26.12.16	Novobavarskyi	Picture 4.1.2.4. Annex 8
5	boiler house, 47A, Pushkarivska str.	Summary of information No. 661183 issued on 18.08.16	Novobavarskyi	Picture 4.1.2.5. Annex 8
6	boiler house, 45, Liubovi Maloi ave.	No documents	Novobavarskyi	Picture 4.1.2.6. Annex 8
7	boiler house, 51, Liubovi Maloi ave.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Novobavarskyi	Picture 4.1.2.7. Annex 8
8	boiler house, 57A, Seminarska str.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Novobavarskyi	Picture 4.1.2.8. Annex 8
9	boiler house, 12, Kashyrskogo str.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Novobavarskyi	Picture 4.1.2.9. Annex 8
10	boiler house, 46/5, Seminarska str.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Novobavarskyi	Picture 4.1.2.10. Annex 8
11	boiler house, 46, Seminarska str.	No documents	Novobavarskyi	Picture 4.1.2.11. Annex 8
12	boiler house, 57B, Seminarska str.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Novobavarskyi	Picture 4.1.2.1.12 Annex 8

The object site layout plans are given in Annex 8.

The list of boilers and their information which will be dismantled at boiler houses due to liquidation is given in Annex 28.

Information on the pumping units, which will be dismantled at boiler houses due to liquidation, is given in tabular form in Annex 29

Information on heat exchange equipment, which will be replaced at boiler houses by the new one, is given in tabular form in Annex 30.

Information leaflets regarding planned interventions will be disseminated to the project affected community in due manner.

4.1.3. Reconstruction of boiler houses

It is supposed to carry out reconstruction of boiler houses, with help of which the full replacement of the worn-out and obsolete equipment will be carried out, with high indexes of energy consumption: boiler units with automatic safety controls and burning, pump and heat exchange equipment, stop valves and regulators, chemical water treatment etc. by new one meeting the requirements of safety and efficiency of present time.

The question of using the current equipment of new types, which was installed over the previous 3-4 years, will be reviewed when designing the reconstruction works, provided satisfaction of hydraulic parameters, determined according to accounts. In case of unserviceability at objects under reconstruction, with engineering services of the enterprise the question will be considered as to the further using at other objects.

The economic effect as a result of reconstruction of boiler houses is achieved at cost of the factors as follows:

- reduction of the fuel consumption while fueling it in the new high-efficient boilers (efficiency around 95%), in comparison with obsolete boilers, which have efficiency no more than 80%;
- reduction of the operation costs, connected with systematic failures in the operation of boilers, due to appearance of defects, pump equipment, automatic controls;
- reduction of the electrical energy consumption, due to installation of the pumps of the modern type;
- fund saving of payment for labor (operators of boiler house) provided equipping of the boiler house with dispatching system.

As a result of implementation of this component it is planned to achieve:

- reduction of the natural gas consumption nearly 960 thousand m³;
- reduction of electric energy consumption nearly 950 thousand kWh/year;
- reduction of CO emissions nearly 38 thousand tones.

The boiler houses, which subject to reconstruction are given in Table 3.

Place of location of 58 boiler houses are given in picture 4.1.3.59 Annex 41

Table 3. List of the objects on the component “Reconstruction of boiler houses”.

No.	Object address	Land use planning documents	Administrative district of city	Number picture and Annex
1	7, Hryshchenka str.	Documents in the development	Nemyshlyanskyi	Picture 4.1.3.1. Annex 9
2	82a, Kulynychivska str.	Documents in the development	Nemyshlyanskyi	Picture 4.1.3.2. Annex 9
3	104, Krasnodarska str.	Documents in the development	Nemyshlyanskyi	Picture 4.1.3.3. Annex 9
4	9a, Dzherelna str.	Estimated money value, extract No. 1403/14 dtd. 20.05.2014 No. 2657/08	Moskovskyi	Picture 4.1.3.4. Annex 9
5	12, Konieva str.	Reserved area for construction (cadastral survey Annex 40)	Novobavarskyi	Picture 4.1.3.5. Annex 9

6	6/10, Polzunova lane	Reserved area for construction (cadastral survey Annex 40)	Novobavarskyi	Picture 4.1.3.6. Annex 9
7	90, Novo-Bavarskyi ave.	Extract from State register No. 77046340 dtd. 26.12.16	Novobavarskyi	Picture 4.1.3.7. Annex 9
8	53, Lomonosova str.	Reserved area for construction (cadastral survey Annex 40)	Novobavarskyi	Picture 4.1.3.8. Annex 9
9	8, Bulvarna str.	Reserved area for construction (cadastral survey Annex 40)	Novobavarskyi	Picture 4.1.3.9. Annex 9
10	88a, Seminarska str.	Estimated money value, extract No.1405/14 dtd. 20.05.2014 No.2655/08	Novobavarskyi	Picture 4.1.3.10. Annex 9
11	13, Marka Bernesa str.	Reserved area for construction (cadastral survey Annex 40)	Novobavarskyi	Picture 4.1.3.11. Annex 9
12	5, Metiznyi lane	Reserved area for construction (cadastral survey Annex 40)	Novobavarskyi	Picture 4.1.3.12. Annex 9
13	7a, St. Nova Bavariia str.	Documents in the development	Novobavarskyi	Picture 4.1.3.13. Annex 9
14	48, Konotopska str.	Documents in the development	Novobavarskyi	Picture 4.1.3.14. Annex 9
15	26, Kontorska str.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Novobavarskyi	Picture 4.1.3.15. Annex 9
16	2, Kontorska str.	Documents in the development	Novobavarskyi	Picture 4.1.3.16. Annex 9
17	5/7, Karpivskyi lane	Documents in the development	Novobavarskyi	Picture 4.1.3.17. Annex 9
18	66, Naboichenka Petra str.	Documents in the development	Novobavarskyi	Picture 4.1.3.18. Annex 9
19	99a, Novo-Bavarskyi ave.	Extract from State register No. 77012569 dtd. 26.12.16	Novobavarskyi	Picture 4.1.3.19. Annex 9
20	41, Novyi pobut str.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Kholodnohirskyi	Picture 4.1.3.20. Annex 9
21	49/51, Rylieieva str.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Kholodnohirskyi	Picture 4.1.3.21. Annex 9

22	67, Velyka Panasivska str.	State act No. 307889 dtd. 30.05.12	Kholodnohirskyi	Picture 4.1.3.22. Annex 9
23	35, Zaliznychna str.	State act No. 307886 dtd. 30.05.12	Kholodnohirskyi	Picture 4.1.3.23. Annex 9
24	2/15, Blahovishchenska str.	Boiler house is embedded into residential building (basement). No Leave and License Agreement.	Kholodnohirskyi	Picture 4.1.3.24. Annex 9
25	12, Baltiiska str.	Documents in the development	Kholodnohirskyi	Picture 4.1.3.25. Annex 9
26	3, Afanasivska str.	Reserved area for construction (cadastral survey Annex 40)	Kholodnohirskyi	Picture 4.1.3.26. Annex 9
27	205, Velyka Panasivska str.	State act No. 318810 dtd. 19.11.12	Kholodnohirskyi	Picture 4.1.3.27. Annex 9
28	27/5, Berkosa str.	Reserved area for construction (cadastral survey Annex 40)	Kholodnohirskyi	Picture 4.1.3.28. Annex 9
29	41, Kurylivska str.	Reserved area for construction (cadastral survey Annex 40)	Kholodnohirskyi	Picture 4.1.3.29. Annex 9
30	65, Ozerianska str.	Reserved area for construction (cadastral survey Annex 40)	Kholodnohirskyi	Picture 4.1.3.30. Annex 9
31	35, Novyi Pobut str.	Reserved area for construction (cadastral survey Annex 40)	Kholodnohirskyi	Picture 4.1.3.31. Annex 9
32	6, Rizdviana str.	Reserved area for construction (cadastral survey Annex 40)	Kholodnohirskyi	Picture 4.1.3.32. Annex 9
33	8, Slovianska str.	Documents in the development	Kholodnohirskyi	Picture 4.1.3.33. Annex 9
34	29, Velyka Panasivska str.	State act No. 307954 dtd. 27.07.12	Kholodnohirskyi	Picture 4.1.3.34. Annex 9
35	7, Ihoria Muratova str.	Documents in the development	Kholodnohirskyi	Picture 4.1.3.35. Annex 9
36	41/43, Andriivska str.	Reserved area for construction (cadastral survey Annex 40)	Kholodnohirskyi	Picture 4.1.3.36. Annex 9
37	30, Hrekivska str.	Documents in the development Boiler house is located in addition to the residential building	Osnovianskyi	Picture 4.1.3.37. Annex 9

38	1, Biolohichnyi lane	Reserved area for construction (cadastral survey Annex 40)	Osnoviansk yi	Picture 4.1.3.38. Annex 9
39	19, Ternopil'ska str.	Decision No. 757/12 dtd. 22.06.2012 on a regular basis	Osnoviansk yi	Picture 4.1.3.39. Annex 9
40	1, Lymanskiy lane	Estimated money value No. 1404/14 dtd. 20.05.2014 No. 2657/08	Osnoviansk yi	Picture 4.1.3.40. Annex 9
41	16, Myrhorodska str.	Documents in the development	Osnoviansk yi	Picture 4.1.3.41. Annex 9
42	27a, Dyspetcherska str.	State acts No. 319509, No. 319508 dtd. 0.6.11.07	Osnoviansk yi	Picture 4.1.3.42. Annex 9
43	89a, Dostoievskoho str.	Developed grounds of borders of land area	Osnoviansk yi	Picture 4.1.3.43. Annex 9
44	20, Bukova str.	Boiler house in the premise of the 1-st storey of residential building. No Leave and License Agreement	Shevchenki vskyi	Picture 4.1.3.44. Annex 9
45	20A, Bukova str.	Documents in the development Boiler house is located in addition to the residential building	Shevchenki vskyi	Picture 4.1.3.44. Annex 9
46	14, Bukova str.	Documents in the development Boiler house is located in addition to the residential building	Shevchenki vskyi	Picture 4.1.3.44. Annex 9
47	YRC Internationalist, 70, Horianska str.	Documents in the development	Kyivskyi	Picture 4.1.3.47. Annex 9
48	1, Akademichna str.	Documents in the development	Kyivskyi	Picture 4.1.3.48. Annex 9
49	106, Saperna str.	State act No. 318782 dtd. 02.10.12	Kyivskyi	Picture 4.1.3.49. Annex 9
50	27, Pomirky str.	Documents in the development	Kyivskyi	Picture 4.1.3.50. Annex 9
51	9, Nesterova str.	Extract from State register EEX 3277769 dtd. 31.07.15	Slobidskyi	Picture 4.1.3.51. Annex 9
52	74a, Myru str.	Documents in the development	Industrialny i	Picture 4.1.3.52. Annex 9

53	10/12, Blahovishchenska str.	Reserved area for construction (cadastral survey Annex 40)	Kholodnohirskiy	Picture 4.1.3.53. Annex 9
54	7a, Konieva str.	Documents in the development	Novobavarskiy	Picture 4.1.3.54. Annex 9
55	5a, Svyntarenka str.	Summary of information No. 66633459 dtd. 26.08.16	Novobavarskiy	Picture 4.1.3.55. Annex 9
56	23a, Svitlanivska str.	State act No. 318905 dtd. 28.11.12	Novobavarskiy	Picture 4.1.3.56. Annex 9
57	32, Seminarska str.	Reserved area for construction (cadastral survey Annex 40)	Novobavarskiy	Picture 4.1.3.57. Annex 9
58	3, Dostoievskoho entrance (building of new heat source with closing of boiler houses: <ul style="list-style-type: none"> ● 1, Dostoievskoho str. ● 14, Dostoievskoho str. ● 35A, Dostoievskoho entrance 	Documents in the development	Osnovianskiy	Picture 4.1.3.58 Annex 9

Table 4. List of boiler houses to be shut down in residential buildings and built on designated land plots.

No.	Object address	New object address
1	12, Konieva str.	12A, Konieva str.
2	6/10, Polzunova lane	8, Polzunova lane
3	53, Lomonosova str.	53A, Lomonosova str.
4	8, Bulvarna str.	8A, Bulvarna str.
5	13, Marka Bernesa str.	13B, Marka Bernesa str.
6	5, Metiznyi lane	11, Barkalova str.
7	3, Afanasivska str.	3B, Afanasivska str.
8	27/5, Berkosa str.	6A, Tsegelnyi lane
9	41, Kurylivska str.	41A, Kurylivska str.
10	65, Ozerianska str.	65A, Ozerianska str.
11	35, Novyi Pobut str.	35B, Novyi Pobut str.
12	6, Rizdviana str.	6A, Lopanskiy lane
13	41/43, Andriivska str.	43A, Andriivska str.
14	1, Biolohichniy lane	1A, Biolohichniy lane
15	10/12, Blahovishchenska str.	12A, Blahovishchenska str.
16	32, Seminarska str.	32B, Seminarska str.
17	16, Myrhorodska str.	16, Myrhorodska str.
18	3, Dostoievskoho entrance (building of new heat source with closing of boiler houses: <ul style="list-style-type: none"> ● 1, Dostoevskoho str. ● 14, Dostoievskoho str. ● 35A, Dostoievskoho entrance 	3, Dostoievskoho entrance

The expected period of construction of the new modular boiler houses in Kharkiv will be carried out during 2019-2020.

At the photo 1 presented a block-modular boiler-house (BMB) by full factory production, with dimensions of 6x3 m.



Photo 1 of a block-modular boiler-house (BMB)

Situational site layouts are given in Annex 9.

Cadastral survey of the areas for construction of the new boiler houses is in Annex 40

Information on boilers, which will be dismantled and replaced by the new ones in the boiler houses, is given in tabular form in Annex 31.

Information of pump units, which are installed on the objects, is given in tabular form in Annex 32.

Information on heat exchange equipment, which is installed at objects, is given in tabular form in Annex 33.

4.1.4. Installation of the individual heating points in the residential buildings

Provision is made for arrangement of new IHP and replacement of the worn-out and out-dated equipment of the existing IHP in the residential buildings, installation by correcting pumps and heat meters, allowing avoid irrational use of heat energy, improve quality of services provided on heat supply, reduce range of pipeline transport system from CHS (with IHP installation), as consequence, reduce heat losses and operation costs.

In the process of the contract implementation they will replace out-dated and worn-out equipment at existing 236 IHP, as well as installation of 14 new IHP. Besides replacement of heat exchange equipment they will install heat metering units, booster pumps for hot water supply systems, automatic regulation and pump systems of weather regulation of heat supply systems.

In table 5 there is information, in which districts of Kharkiv IHP will be installed.

Table 5. Quantity of IHP

No.	Administrative district of the city	Number of objects
1	Industrialnyi	92
2	Kyivskiy	37
3	Moskovskiy	16
4	Nemyslhianskiy	20
5	Osnovianskiy	31 (out of them 14 new)
6	Slobidskiy	18
7	Shevchenkivskiy	36
Total		250 (out of them 14 new)

The installation of the individual heating points in the residential houses in Kharkiv will be carried out within 30 months. Works completion of 250 HIS installation – 2 quarter of 2019.

As a result of this component implementation it is expected to achieve as follows:

- reduction of the natural gas consumption nearly 7.2 mln. m³;
- reduction of electric energy consumption nearly 300 thousand kWh/year;
- reduction of CO emissions nearly 190 thousand tones.

List of IHP is given in Annex 34.

4.1.5. Installation of heat meters and other mechanical and electrical equipment in the heat supply stations of the residential houses

It is supposed to install heat meters in the heat supply stations of residential houses, providing revenue metering of heat energy which is consumed, and installation of the automatic regulation, allowing avoid irrational use of heat energy, increase quality of services on provided heat supply.

Table 6. Number of houses and installed metering units of heat energy with weather regulation systems

No.	Administrative district of the city	Number of buildings	Number of metering units
1	Slobidskiy	201	304
2	Nemyslhianskiy	53	64
3	Shevchenkivskiy	23	36
4	Kyivskiy	52	68
5	Moskovskiy	62	163
6	Novobavarskiy	58	78
7	Kholodnohirskiy	102	201
8	Osnovianskiy	18	36
9	Industrialnyi	18	50
Total		587	1000

The installation of heat meters and other mechanical and electrical equipment in the heat supply stations of the residential houses in Kharkiv will be carried out within 28 months. Works completion of 1000 heat meters installation - 2 quarter of 2019.

As a result of this component implementation it is expected to achieve the following:

- reduction of the natural gas consumption is nearly 9.8 mln. m³, at cost of heat consumption to be pump controlled depending on the ambient temperature;
- reduction of the electricity energy at heat sources, OPS and CHS nearly 400 thousand kWh×year;
- reduction of CO emissions nearly 250 thousand tones.

List of residential houses, in which the component implementation is provided, and number of heat meters that will be installed in the heat supply stations is given in Annex 35. Information leaflets about planned interventions under the project will be disseminated at each location with the contact information for feedbacks from the PAP's.

4.1.6. Commissioning of the steam turbogenerator and reconstruction of the steam boiler CHP-3

It is intended to perform reconstruction of turbogenerator st. No.2 of electrical capacity 20 MW, putting it into operation, performance of overhaul of the power boiler No.3, satisfying parameters of turbine operation.

The current CHP-3 equipment has been operating since the end of 30-s of the previous century. In 2013 turbogenerator with capacity 24 MW was decommissioned, thus the installed capacity at CHP-3 was reduced up to 62 MW. Besides, they depleted resource of one more turbogenerator of electrical capacity 24 MW.

On the photo 2 and 3 the turbo-generator number 2 which will be reconstructed at CHP-3.

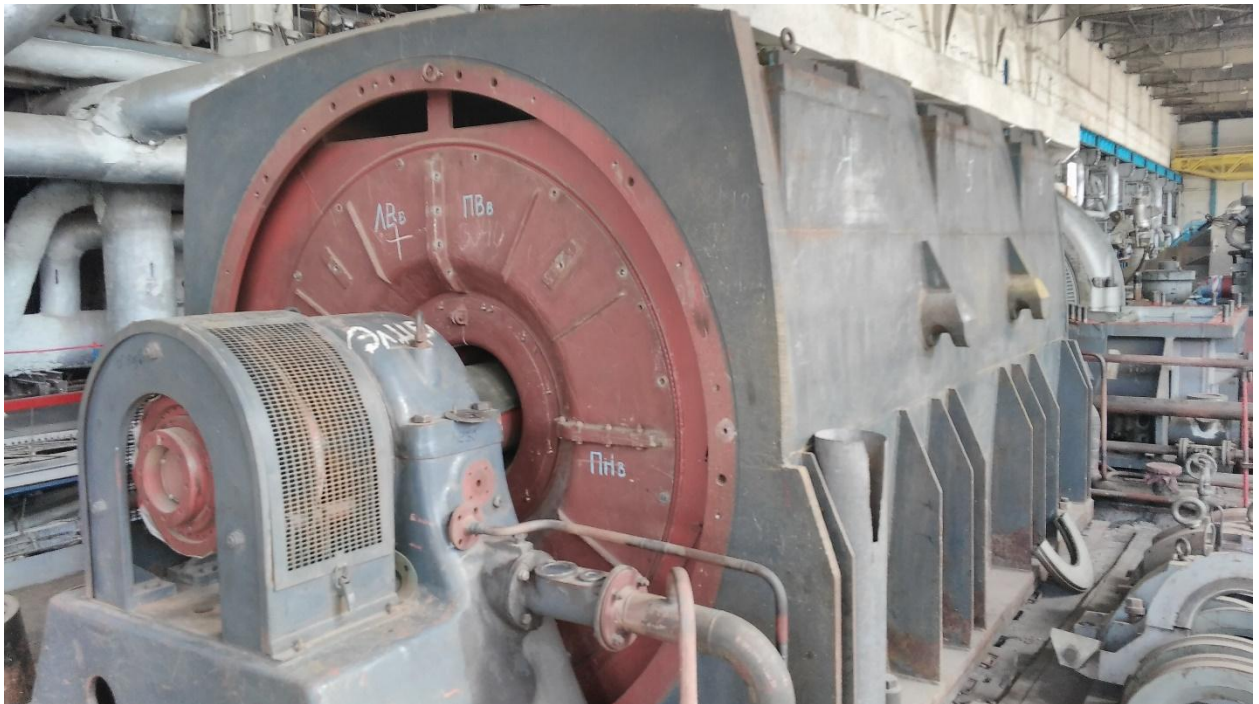


Photo 2 of the turbo-generator number 2 at CHP-3.



Photo 3 of the turbo-generator number 2 at CHP-3.

The component implementation will allow as follows:

- renew partially the main production equipment and raise electrical capacity to the required one, to perform electric load schedule;
- increase degree of heat energy consumption, produced in the cogeneration cycle;
- increase electrical energy supply of nearly 160 mln. kWh×hour (+24%), that will allow improve technical and economical indexes of the plant and the enterprise as a whole;
- reduce CO₂ emissions of nearly 1 400 thousand tones.

Situation layout plan of the object is given in in picture 4.1.6.1 Annex 10.

4.1.7. Modernization of the pump stations and boiler houses with reconstruction of distribution facilities 6 kV, replacement of pumpsets and installation of frequency converters for electric motors of pumps

It is provided installation of the frequency converters at high-voltage electric motors (6 KW) of the pump equipment of DHS objects, namely at district boiler houses, CHP and OPS.

List of the objects is given in Table 7.

Table 7. List of the objects on the component “Modernization of the pump stations and boiler houses with reconstruction of distribution facilities 6 kV, replacement of pumpsets and installation of frequency converters for electric motors of pumps”

No.	Object, address	Administrative district of the city
1	OPS No.6-2 129/1, “Hlybokyi Yar”, 129/1, Gagarina ave.	Slobidskyi
2	OPS No.4-1, 325A, Klochkivska str.	Shevchenkivskyi
3	OPS No.2-1, 6, Shchedrynskyi quarter	Kyivskyi
4	OPS No.1-2, 15A, Mefodiivska str.	Slobidskyi
5	boiler house, 4, Artema Vedelia str.	Moskovskyi
6	boiler house, 17, Shekspira str.	Shevchenkivskyi
7	boiler house, 2/1, Kostycheva str.	Slobidskyi
8	CHP-4, 275, Moskovskyi ave.	Industrialnyi

Use of the modern speed control measures of the process mechanisms together with wide possibilities of automation will provide optimal consumption of the electric energy by the electrical engines and allow stabilize hydraulic modes.

Modernization of the pump stations and boiler houses with reconstruction of distribution facilities 6 kV, replacement of pumpsets and installation of frequency converters for electric motors of pumps will be carried out within 22 months. Works completion of pump stations and boilers modernization - 4 quarter of 2019.

Due to the component implementation it will be achieved as follows:

- increase of reliability of heat supply, due to keeping permanent of set pressure in the pipelines of heat networks;
- decrease of nearly 12.5 mln. kWh×year of consumption of the electric energy (approximately 50-55%) at the objects;
- provision of the functions of protection of the electric drives of the pump units;
- reduction of the material costs for the technical maintenance and performing repairs;
- decrease of CO emissions nearly of 155 thousand tones.

4.1.8. Reconstruction of heat networks

It is planned to replace about 24 km of existing pipelines of heat networks on new pre-insulated pipes in polyurethane-foam insulation and laying of new pipelines..

Today, the wear of pipelines of calorific nets is more than 70%. The pace of aging and deterioration of heat network is comparable with the volume and pace of their transformation, so the existing dynamics has negative values.

List of the objects is given in Table 8

Table 8 List of the objects reconstruction heat network

No. of item	Name of section, object, address	District name	Number picture and Annex
1	Heat networks of section MK4826/3-MK4826/3-1CK, Peremohy Avenue	Shevchenkivskiyi	Picture 4.1.8.1, Picture 4.1.8.66 Annex 11
2	Heat networks of section MK4304-MK4303, Otakara Yarosha Street	Shevchenkivskiyi	Picture 4.1.8.2, Picture 4.1.8.78 Annex 11
3	Heat networks of section MK5223 to CHS 607/2 at the 54G Heroiv Pratsi Street	Moscovskiyi	Picture 4.1.8.3 Annex 11
4	Heat networks of section MK4115-MK4301, Shekspira Street	Shevchenkivskiyi	Picture 4.1.8.4. Picture 4.1.8.65 Annex 11
5	Heat networks of section MK4200ACK-MK4201, Shekspira Street (output No. 2 of boiler room Pavlove pole on the 17 Shekspira Street)	Shevchenkivskiyi	Picture 4.1.8.5, Picture 4.1.8.65 Annex 11
6	Heat networks of section MK4706-MK4707, Peremohy Avenue	Shevchenkivskiyi	Picture 4.1.8.6, Picture 4.1.8.66 Annex 11
7	Heat networks of sections MK4525-MK4531, MK4526-MK4526/2, Dynamivska Street, Faninskyi Lane	Shevchenkivskiyi	Picture 4.1.8.7 Annex 11
8	Heat networks of section MK3705-MK3706, Mokhnatska Street	ndustrialnyi	Picture 4.1.8.8 Annex 11
9	Heat networks of section MK6624-MK66HO42, Haharina Avenue.	Osnovianskyi	Picture 4.1.8.9, Picture 4.1.8.76 Annex 11
10	Heat networks of section MK1129-MK1134, Moskovskiyi Avenue, Bronenostsia Potomkin Street	Slobidskyi	Picture 4.1.8.10, Picture 4.1.8.77 Annex 11
11	Heat networks of section from MK1233 to zh/b on 56 Moskovskiyi Avenue	Osnovianskyi	Picture 4.1.8.11 Annex 11
12	Jumper between terminals No. 1 and No. 2 of Slobidskyi district boiler room on the 2/1 Kostycheva Street	Slobidskyi	Picture 4.1.8.12 Annex 11
13	Heat networks of section MK6316-MK6317, Fonvizina Street	Slobidskyi	Picture 4.1.8.13, Picture 4.1.8.69 Annex 11

14	Heat networks of section from fixed support on the section from MK5203-MK5206A, Saltivske Highway	Moscovskiyi	Picture 4.1.8.14 Annex 11
15	Heat networks of section MK1134/5-MK1227A, Zakhysnykiv Ukrainy Square micro-district	Slobidskyi	Picture 4.1.8.15, Picture 4.1.8.77 Annex 11
16	Heat networks of section MK1802/2-MK1807, Moskovskiyi Avenue	Slobidskyi	Picture 4.1.8.16, Picture 4.1.8.67 Annex 11
17	Heat networks of section MK1807-MK1821, Vilenskyi Lane	Slobidskyi	Picture 4.1.8.17, Picture 4.1.8.67 Annex 11
18	Heat networks of section MK1821-MK5830, Bilostotskyi Lane	Moscovskiyi	Picture 4.1.8.18, Picture 4.1.8.67 Annex 11
19	Heat networks of section MK5830-MK5836B, Kamysheva Ivana Street	Moscovskiyi	Picture 4.1.8.19, Picture 4.1.8.67 Annex 11
20	Heat networks of sections MK5836Г-MK5837A, MK5837A-MK5837ACK2, Kamysheva Ivana Street, Kaunaskiyi Lane.	Moscovskiyi	Picture 4.1.8.20, Picture 4.1.8.67 Annex 11
21	Heat networks of section MK3232A-MK3237, Industrialnyi Avenue	Industrialnyi	Picture 4.1.8.21, Picture 4.1.8.68 Annex 11
22	Heat networks of section MK3237-MK3243, Industrialnyi Avenue	Industrialnyi	Picture 4.1.8.22, Picture 4.1.8.68 Annex 11
23	Heat networks of section MK6206-MK6209, Morozova Street	Slobidskyi	Picture 4.1.8.23 Annex 11
24	Heat networks of section MK6767-MK6768, Heroiv Stalinhrada Street	Slobidskyi	Picture 4.1.8.24 Annex 11
25	Heat networks of section MK6762A-MK6764, Petra Hryhorenka Avenue	Slobidskyi	Picture 4.1.8.25 Annex 11
26	Heat networks of section MK6119БСК-MK6120, Lva Landau Avenue	Slobidskyi	Picture 4.1.8.26 Annex 11
27	Jumper between heat line No. 66 and No. 14, Enerhetychna Street	Slobidskyi	Picture 4.1.8.27 Annex 11
28	Heat networks of section MK1128A/2-MK1223, Dniprovska Street	Slobidskyi	Picture 4.1.8.28, Picture 4.1.8.77 Annex 11
29	Heat networks of sections MK6516-MK6517, MK6515-MK6515A, Zabaikalskyi Lane	Slobidskyi	Picture 4.1.8.29, Picture 4.1.8.69 Annex 11

30	Heat networks of section MK6612-MK6612Б, Kashtanova Street	Slobidskyi	Picture 4.1.8.30 Annex 11
31	Heat networks of section MK2243/9- MK2243/11Б, Sadova Street	Kyivskyi	Picture 4.1.8.31 Annex 11
32	Heat networks of section MK2240A- MK2311A, Shevchenka Street	Kyivskyi	Picture 4.1.8.32, Picture 4.1.8.70 Annex 11
33	Heat networks of section MK2240A- MK2241, Bilhorodskyi Descent	Kyivskyi	Picture 4.1.8.33, Picture 4.1.8.70 Annex 11
34	Heat networks of section MK2301-MK2304, Sliusarnyi Lane	Kyivskyi	Picture 4.1.8.34 Annex 11
35	Heat networks from MK2987 to boiler room MZHK Internatsionalist, 70, Horianska Street with boiler house piping connection	Kyivskyi	Picture 4.1.8.35 Annex 11
36	Heat networks of section MK2981CK6- MK2981CK5, Lesia Serdiuka Street	Kyivskyi	Picture 4.1.8.36, Picture 4.1.8.71. Annex 11
37	Heat networks of sections MK2985- MK2985T, MK2985-MK2985TK40, Lesia Serdiuka Street, Druzhby Narodiv Street	Kyivskyi., Moscovskyi	Picture 4.1.8.37, Picture 4.1.8.71. Annex 11
38	Heat networks of section MK9421-MK9403, Blahodatna Street	Nemysylianskyi	Picture 4.1.8.38 Annex 11
39	Heat networks of section MK9514/2- MK9514/2CK, Unetskyi Lane	Nemysylianskyi	Picture 4.1.8.39 Annex 11
40	Heat networks of section MK9407-MK9408, Khabarova Street	Nemysylianskyi	Picture 4.1.8.40, Picture 4.1.8.72 Annex 11
41	Heat networks of section MK9601-MK9602, Khabarova Street	Nemysylianskyi	Picture 4.1.8.41, Picture 4.1.8.72 Annex 11
42	Heat networks of section MK9603-MK9605, Khabarova Street, Traktorobudivnykiv Avenue	Nemysylianskyi	Picture 4.1.8.4, Picture 4.1.8.72 Annex 11
43	Heat networks of section MK9606-MK9607, Moskovskyi Avenue	Nemysylianskyi	Picture 4.1.8.43 Annex 11
44	Heat networks of section MK9801- MK9801CK, Petra Hryhorenka Avenue	Nemysylianskyi	Picture 4.1.8.44, Picture 4.1.8.73 Annex 11
45	Heat networks of section MK9803CK2- MK9804CK1, Petra Hryhorenka Avenue	Nemysylianskyi	Picture 4.1.8.45, Picture 4.1.8.73 Annex 11

46	Heat networks of sections MK5106A-MK5510, MK5106-MK5107, Hvardiitsiv-Shyronintsiv Street	Moscovskiyi	Picture 4.1.8.46, Picture 4.1.8.79 Annex 11
47	Heat networks of section MK5208-MK5209, Traktorobudivnykiv Avenue	Moscovskiyi	Picture 4.1.8.47, Picture 4.1.8.74 Annex 11
48	Heat networks of section MK5212-MK5215, Traktorobudivnykiv Avenue	Moscovskiyi	Picture 4.1.8.48, Picture 4.1.8.74 Annex 11
49	Heat networks of section MK5219CK-MK5220, Traktorobudivnykiv Avenue	Moscovskiyi	Picture 4.1.8.49, Picture 4.1.8.74 Annex 11
50	Heat networks of section MK5224-MK5225A, Heroiv Pratsi Street	Moscovskiyi	Picture 4.1.8.50, Picture 4.1.8.78 Annex 11
51	Heat networks of section MK2976/6T-MK5309, Akademika Pavlova Street	Kyivskiyi	Picture 4.1.8.51, Picture 4.1.8.80 Annex 11
52	Heat networks of section MK1138/5Б-MK1138/6, Moskovskiyi Avenue	Moscovskiyi	Picture 4.1.8.52, Picture 4.1.8.77 Annex 11
53	Heat networks of section MK7812-HO22, Alushtynska Street	Kholodnohirskiyi	Picture 4.1.8.53 Annex 11
54	Heat networks of section MK8116-MK8119, Hryhorivske Highway	Novobavarskiyi	Picture 4.1.8.54, Picture 4.1.8.75 Annex 11
55	Heat networks CHS on the 4A Yuriiia Parashchuka Street from TK8120-1 to TK8120-1TK8	Novobavarskiyi	Picture 4.1.8.55, Picture 4.1.8.75 Annex 11
56	Heat networks of section MK1608-MK1608/25, Himnaziina Quay	Osnovianskiyi	Picture 4.1.8.56, Picture 4.1.8.76 Annex 11
57	Heat networks of section MK1228A-MK1231, Bohdana Khmelnytskoho Street	Slobidskiyi, Osnovianskiyi	Picture 4.1.8.57, Picture 4.1.8.77 Annex 11
58	Heat networks of section from CP3-3 to MK1111, Enerhetychna Street	Slobidskiyi	Picture 4.1.8.58 Annex 11
59	Heat networks of section MK5227-MK5227/1, Traktorobudivnykiv Avenue	Moscovskiyi	Picture 4.1.8.59, Picture 4.1.8.78 Annex 11
60	Heat networks of section from MK5223 to CHS 606/2 on the 140G Traktorobudivnykiv Avenue	Moscovskiyi	Picture 4.1.8.60, Picture 4.1.8.78 Annex 11

61	Heat networks of section from MK5109 to CHS 615/1 on the 22V Hvardiitsiv-Shyronintsiv Street	Moscovskyi	Picture 4.1.8.61, Picture 4.1.8.79 Annex 11
62	Heat networks of section MK5114-MK5114CK1, Hvardiitsiv-Shyronintsiv Street	Moscovskyi	Picture 4.1.8.62, Picture 4.1.8.74 Annex 11
63	Heat networks of section MK5307A-MK5307A/1, Valentynivska Street	Moscovskyi	Picture 4.1.8.63, Picture 4.1.8.80 Annex 11
64	Heat networks of section from MK5220 to CHS 606/1 on the 3V Svitla Street	Moscovskyi	Picture 4.1.8.64, Picture 4.1.8.74 Annex 11

Thanks to the implementation of the component the following is reached:

- reduction in 2-2,5 times thermal losses;
- increase the service life of transmission and distribution pipelines which are replaced, up to 30 years or more;
- to prevent the possibility of damage to the piping from external corrosion (caused by flooding), due to the implementation of the monitoring system moisture insulation;

The economic effect from the implementation of this component is achieved through the following factors:

- saving of natural gas of about 380 thousand m³;
- electricity savings of about 260 thousand kWh×h;
- reduction of CO emissions about 13 thousand tons;
- reduction of 9-10 times the operating costs of heat networks.

A list of sections of heat networks, reconstructed, with brief specifications are given in tabular form in the Annex 36.

Situational layout plans of heat networks under reconstruction are given in the Annex 11. Screening checklist will be completed before the start of the civil works to verify that no potential land acquisition issues result from project interventions.

4.1.9. Implementation of automation system, dispatching and commercial electricity metering system

It is provided to develop existing automated dispatch control system (ADCS) parameters, introduction of collection system telemechanics information and ACPMS implementation at all work sites.

The purpose of the system creation includes as follows:

1. Providing managerial, operational and maintenance personnel with reliable information about the current state of automation to improve the thermal efficiency of delivery of heat by reducing heat loss in the network
2. Effective control of pressure and temperature of the district heat networks in different parts of the network.
3. Support of the optimal modes of equipment operation during rapid change of consumption electric and thermal energy.
4. The optimization of the control equipment of thermal network is based on multi-factor control model to the prediction that will simultaneously monitor the status of the network and to generate information for manager to make changes to the management process.

5. Increasing of the technical level of production and improvement of working conditions due to convenience in obtaining information and control of technological processes and diagnostics of technical means of the system.

6. The creation of new and development of existing APM/dispatchers.

Implementation and development of the system will allow you to achieve the best technical-economic performance due to control of the equipment operating parameters of heat sources and network, targeted management processes, awareness-raising and operational activities of the staff.

The expected result will be achieved thanks to the efficient management of a centralized system of a heat supply, production, release, transport and distribution of thermal energy with the lowest cost by providing timely and accurate information about the course of technological processes parameters. Implementation of automation system, dispatching and commercial electricity metering system will be carried out within 18 months. Works completion- 4 quarter of 2018.

Economical effect of this component implementation is achieved at expense of the factors as follows:

- control of parameters of heat networks operation, OPS, CHS, IHP and heat sources;
- prompt response to unforeseen change of operating parameters;
- reducing the time to containment and subsequent elimination of violations in the modes of heating or damage of thermal network;
- to reduce loss of the coolant from the pipelines of calorific nets;
- compliance caused by modes of heating.

As a result of the implementation of this component it is expected to achieve:

- reduction of natural gas consumption about 24 million m³;
- reduction in electricity consumption about 4.3 million kW×h;
- reduction of emissions about 608 thousand tons.

List of the automation objects is given in Annex 37.

Scheme of DHS development of automation and dispatching systems is given in picture 4.1.9.1 Annex 12.

4.1.10. Implementation of SCADA system

The existing system of supervisory control and data acquisition (SCADA) in the system of Kharkiv district heating was built over than 20 years ago and has limited engineering capacities; software has become outdated and worn-out by now. The number of the objects of control in the system is insufficient, objects telecontrol functions are absent, and there is no capability to determine the places of damage of pipelines (heat carrier leakage), perform regulation of the mode and make decisions on the operational basis.

As a result of implementation of the project for implementation of SCADA plans to achieve greater efficiency of operational dispatch management of operating regimes in generation, transmission and distribution of thermal energy with the lowest cost, and also enables remote control of facilities in the district heating system of Kharkiv.

Thanks to the implementation of this component it will be achieved as follows:

- reduction of the natural gas consumption of no less than 25 mln. m³ per year;
- reduction of the electric energy consumption of no less than 4.3 mln. kW * per year;
- reduction of heating water losses of no less than 1.0 mln. m³ per year;
- reduction of emissions of the harmful substances into the environment (COx, NOx) not less than 600 thousand tones per year.

List of the objects of SCADA system implementation in Annex 38.

4.2. The boundaries of sanitary protection area

The boundaries and sizes of sanitary protection area (SPA) are determined in the documents, in which they ground the volumes of emissions of the contamination substances into environment by the stationary sources.

The estimated SPA specified at situational outline maps of layout of the objects in the grounding documents lies across the territory of boiler houses. A copy of the cover sheet with the supporting documents is given in the Annex 13.

4.3. Description of land plots

For the project implementation the development of land plots documentation for 20 objects is required. The land plots were assigned by the city administration. For the project implementation the registration of land plots for 20 objects is required. There is no need to provide land plots for the rest of the components, because the Project will be implemented already in the premises of existing boiler houses. No new land acquisition is expected by the project activity, screening will be done for each contract to verify before start of the civil works.

Reconstruction of heat networks will be implemented in the current channels of heat networks. Laying of the new pipelines of heat networks, for liquidation of boiler houses and arrangement of new IHP, does not require for separation of the land plot. The laying route will be agreed in accordance with established procedure with the appropriate authorities.

Description of the land plots provided by the Kharkiv City Council for the construction of new modular type boiler houses:

1. The land plot at Afanasivska str., 3B

The land plot is located on the internal-house territory of the residential house №3 at Afanasivska street and the residential house № 2G on Volonters'ka street. There is an access road. The land plot does not border any buildings. Trash cans are placed to the north of the allocated area at a distance of about 10 meters.

2. The land plot at Tsegelnyi lane, 6A

The land plot is located to the east from the residential house №5 at Tsegelnyi lane. There is an access road to the land plot. The land plot does not border any buildings. There are 2 trees and shrub on the territory they will be removed and be planted new trees in a certain place, which will be coordinated with the community after completion of works^[NL2]

3. The land plot at Kurylivska str., 41A

The land plot is located in the western part of the internal-house territory of the residential house №41 at Kurylivska str. The land plot borders with the stone non-residential building from the east. There is an access road to the land plot. Further on the land plot are trash cans, which will be moved to another place after coordinate with by the municipal authorities and the community.

4. The land plot at Ozerianska str., 65A

The land plot is located in the northern part of the internal-house territory of the residential house №65 at Ozerianska str. There is an access way to the land plot. The land plot borders from the north and from the west with non-residential houses. There are 2 trees and 2 shrubs planted on the territory of the land plot, a bench set and a decorative fence are installed.

A bench and a fence will be replaced after the preliminary agreement with the residents. The trees will be removed and be planted new trees in a certain place, which will be coordinated with the community after completion of works

The adjacent area will be landscaped, trees and bushes will be planted after the completion of construction.

5. The land plot at Novyi Pobut str., 35B

The land plot is located in the south-eastern part of the internal-house territory of the residential house №35 at Novyi Pobut street. There is an access way to the land plot. There is a metal garage from the north of the land plot. There are trees from the west at a distance of approximately 2,5-3 meters that may have to be prune during the construction work.

6. The land plot at Andriivska str., 43A

The land plot is located in the south-western part of the internal-house territory of the residential house No. 41/43 at Andriivska street. There is an access way to the land plot. Trash cans are installed on the territory of the land plot, which will be replaced to another place before the start of construction works.

The land plot borders with two metal garages from the west. There is a children's playground from the north from the land plot at a distance of 2meters. The playground will be demounted but installed nearby after the consultations with the community on proper placing.

7. The land plot at Blahovishchenska str., 12A

The land plot is located in the north-eastern part of Kharkiv's separate department "Laboratory Center of Railway Transport at the Ministry of Healthcare of Ukraine". The land plot borders from the east with the main non-residential house at Blahovishchenska str., 8. There is one tree on the land plot which will be removed and be planted new trees in a certain place, which will be coordinated with the community after completion of works^[NL3]

8. The land plot at Lopanskyi lane, 6A

The land plot is located in the western part of the internal-house territory of the residential house No.4 at Lopanskyi lane, 4. There is an access way to the land plot.

The plot borders on the north with the permanent garage. There are 2 trees and shrub on the territory which will be will be removed and be planted new trees in a certain place, which will be coordinated with the community after completion of works^[NL4].

9. The land plot at Polzunova lane, 8

The land plot is located in the western part of the internal-house territory of the residential house No. 6/10 at Polzunova lane. There is an access way to the land plot of the future construction. There is entrance into the courtyard through the archway width of 3,6 meters and height of 6,0 meters. There is no tree, no flowerbed on the allocated land plot. The land plot borders on the permanent buildings (garages) from the north and north-west. There is a children's playground to the east of the land plot at a distance of 5meters. The construction site will be carefully fenced ("dense" mesh or solid fence, a height of not less than 1.7 m.) and has lighted at night. The special measures will be developed in the-specific ESMP. There will post warning label In public access areas.

10. The land plot at Konieva str., 12A

The land plot is located in the southern part of the internal-house territory of the residential house № 12/1 at Konieva street and residential house number 3 at Velyka Honcharivs'ka street. There is an access way to the land plot. Also, there are two entrances to the yard about 3,2 meters width. The land plot adjoins to the end face of a 2-storey residential house. There is a children's playground from the south-east of the land plot about 3 meters long. The construction site will be carefully fenced ("dense" mesh or solid fence, a height of not less than 1.7 m.) and has lighted at night.. The special measures will be developed in the-specific ESMP. There will post warning label in public access areas. There is a non-permanent summerhouse and one small tree on the territory of the allocated land plot. The summerhouse will be dismantled and removed to another place before the start of work which will be previously agreed with the residents. A tree will be removed and be planted in a certain place, which will be coordinated with the community after completion of works.

11. The land plot at Lomonosova str., 53G

The land plot is located in the eastern part of the internal-house territory of the residential house № 13A at Lomonosova street. There is an access way to the area of the future construction. The land plot does not border with any buildings. There is a children's playground to the north of the land plot at a distance of about 10 meters. The construction site will be carefully fenced ("dense" mesh or solid fence, a height of not less than 1.7 m.) and has lighted at night. The special measures will be developed in the-specific ESMP. There will post warning label in public access areas.. There are trash cans at a distance of 7 meters in eastern direction from the land plot of the future construction. There are 5 small trees in the allocated land plot. The trees will be removed and be planted new trees in a certain place, which will be coordinated with the community after completion of works.

12. The land plot at Marka Bernesa str., 13BThe land plot allocated for the construction of a new modular type boiler house is located in the northern part of the internal-house territory residential house № 13 at Marka Bernesa street. There is an access way to the land plot. The land borders on east with the permanent non-residential building (garage). A playground is located about 20 meters on south from the land plot. The construction site will be carefully fenced ("dense" mesh or solid fence, a height of not less than 1.7 m.) and has lighted at night. The special measures will be developed in the-specific ESMP. There will post warning label in public access areas

13. The land plot at Barkalova str., 11

The land plot allocated for construction is located on the territory of the private Ukrainian Charity "Agroecology" Fund along the road at Barkalova street. There are 3 trees and shrubs that will be removed and be planted new trees in a certain place, which will be coordinated with the community after completion of works. The allocated land plot does not border with any buildings

14. The land plot at Seminarska str., 32A

The land plot is located in the northeastern part of the internal-house territory of the residential house number 32 at Seminarska street. There is an access way to the land plot. There is a tree on the territory of the land plot that will be removed and be planted new trees in a certain place, which will be coordinated with the community after completion of works The allocated land plot does not border with any buildings.

15. The land plot at Bulvarna str., 8A

The land plot is located on east from the residential house number 8 at Bulvarna street. There is an access road to the land plot. The land plot does not border with any buildings.

There is fenced sports ground to the south of the allocated area at a distance of 7 meters and children's playground to the north-west at a distance of 10 meters. The construction site will be carefully fenced ("dense" mesh or solid fence, a height of not less than 1.7 m.) and has lighted at night. The special measures will be developed in the-specific ESMP. There will post warning label in public access areas.

16. The land plot at Biolohichnyi lane, 1A

The land plot is located in the western part of the internal-house territory of the residential house number 1 at Biolohichnyi lane. There are 2 access way from the street to the place of planned construction from the Biolohichna street and Zaliznychna street. The land plot borders with the permanent garage from the west. The children's playground is located on the south-west from the land plot at a distance of about 25 meters. The construction site will be carefully fenced ("dense" mesh or solid fence, a height of not less than 1.7 m.) and has lighted at night. The special measures will be developed In the-specific ESMP. There will post warning label in public access areas .There is one tree on the territory of the land plot that will be removed and be planted new tree in a certain place, which will be coordinated with the community after completion of works. There is a tree in close proximity from the north to the land plot that can be prune before start of work. The trees will be planted upon completion of the construction.

17-18. The land plots at 3 Dostoevskoho entrance, 16 Myrhorodska str.

The final decisions have not accepted yet. The project documentations is developing.

The 2 land plots for construction of 2 cogeneration is located on existing plants:

- boiler house, 4 Artema Vedelia
- boiler house “Khartron”, 1 Akademika Proskury

Information as to the land plots, on which construction and installation works will be carried out is given in Annex 39 and Annex 40.

4.4. Time-schedule of the PROJECT execution.

Information as to the terms and the components of the PROJECT execution according to the previous procurement plan is given in the Table 9

Table 9 Plan schedule of the PROJECT execution

No	Name of the component, contract	Bid issue date	Date of submission of bid offers	Date of the contract signing	Contract completion date
1	Consulting services				

1.1	Technical supervision of construction and installation works	October 2016	November 2016	December 2016	December 2018
1.2	Development of the project documentation of stage "Detail project" (DP) on decommissioning of boiler houses, installation of heat supply stations and reconstruction of heat supply network	August 2015	January 2016	June 2016	December 2018
1.3	Development of the project documentation of stage "Feasibility report" (FR) of putting steam turbogenerator into operation, installed at CHP-3	June 2016	July 2016	August 2016	June 2017
1.4	Development of the project documentation of stage "Technical and economical calculations" (TEC) and bid documents for reconstruction of boiler houses	July 2016	July 2016	August 2016	February 2017
1.5	Development of the project documentation of stage "Detail project" (DP) for reconstruction of heat supply network	July 2016	July 2016	August 2016	October 2020
1.6	Development of the project documentation of stage "Technical and economical calculations" (TEC) and bid documents for SCADA system introduction	June 2016	August 2016	October 2016	June 2020
2	Designing, supply and installation				
2.1	Construction of cogeneration plant with electrical capacity 1 MW at boiler house in 1, Akademika Proskury str.	August 2017	October 2017	January 2018	December 2019
2.2	Construction of cogeneration plant with electrical capacity 4 MW and thermal capacity 4.3 MW with reconstruction of administrative and industrial case at boiler house in 4, Artema Vedelia str.	January 2016	March 2016	June 2016	December 2018
2.3	Reconstruction of boiler houses	February 2017	March 2017	May 2017	December 2019
2.4	Installation of the individual heat supply stations in the residential buildings	January 2016	March 2016	June 2016	December 2018

2.5	Modernization of the pump stations and boiler houses with reconstruction of distribution devices 6 kV, replacement of the pump units and installation of the frequency converters at electric engines of the pump units	August 2016	October 2016	December 2016	October 2018
2.6	Commissioning of steam turbounit, reconstruction of steam boiler installed at CHP-3	June 2017	August 2017	October 2017	December 2019
2.7	First stage of reconstruction of heat supply network	January 2017	February 2017	April 2017	December 2018
2.8	Second stage of reconstruction of heat supply network	October 2017	December 2017	March 2018	October 2019
2.9	Third stage of reconstruction of heat supply network	October 2018	December 2018	March 2019	October 2020
2.10	Decommissioning of boiler houses, installation of heat supply stations and reconstruction of heat supply network	January 2017	March 2017	May 2017	November 2018
2.11	Installation of heat meters and other mechanical and other electrical equipment in the heat supply stations of the residential buildings	March 2016	April 2016	June 2016	December 2018
2.12	Introduction of the automated system of commercial electricity metering	July 2016	September 2016	December 2016	June 2018
2.13	SCADA system implementation	July 2017	September 2017	December 2017	June 2020

5. CHARACTERISTICS OF IMPACTS OF THE PROJECT ACTIVITIES ON THE ENVIRONMENT AND SOCIAL SPHERE

When performing the project activities there can be both positive and negative impacts on the environment and social sphere. The positive effects include the reduction of CO₂ emissions and polluting substances in the atmospheric air, as well as it is expected improving quality and reliability of services, increasing of the social welfare level of population.

The Project provides to shut down of crashed boiler houses and renovation of boiler houses, heating DHS networks, modernization of the equipment and arrangement of new IHP, etc. It is important to use correct methods to minimize any considerable impact on the environment.

The construction works will be performed either at premises of the current objects, in the streets, or with the other objects of local infrastructure.

The Project does not require relocation and will not affect the right of ownership, since the emphasis is on modernization of existing networks and facilities. As well, the Project will not affect archaeological or historic sites. The construction will not harm nature conservation areas.

Replacement piping does not have any significant impact on land use because the proposed activities will be carried out on existing buildings through district heat networks. For the same reason, the visual impact on the environment also remains insignificant.

The works at construction and repair areas can cause some inconveniences such as noise, dust, vibration and overlapping of transport traffic movement. Especially it concerns the cases, when such works are performed near to residential districts. However, these inconveniences are temporary and can be mitigated, if observing the measures, presented in the Plan of mitigation measures.

The main negative impacts of the Project are as follows:

5.1. Impact on the atmospheric air

The main sources of air pollution when performing work are as follows:

- exhausted fumes from operation of construction equipment, vehicles and other mechanisms, the formation of dust and suspended solids in Persian bulk materials;
- emissions of pollutants in the paint work;
- emissions of polluting substances into atmosphere during welding.

Point Sources

Point sources are discrete, stationary, identifiable sources of emissions that release pollutants to the atmosphere. They are typically located in manufacturing or production plants. Within a given point source, there may be several individual 'emission points' that comprise the point source.

Point sources are characterized by the release of air pollutants typically associated with the combustion of fossil fuels, such as nitrogen oxides (NO_x), sulfur dioxide (SO₂), carbon monoxide (CO), and particulate matter (PM), as well as other air pollutants including certain volatile organic compounds (VOCs) and metals that may also be associated with a wide range of industrial activities. Emissions from point sources should be avoided and controlled according to good international industry practice (GIIP) applicable to the relevant industry sector, depending on ambient conditions, through the combined application of process modifications and emissions controls.

Fugitive Sources

Fugitive source air emissions refer to emissions that are distributed spatially over a wide area and not confined to a specific discharge point. They originate in operations where exhausts are not captured and passed through a stack. Fugitive emissions have the potential for much greater ground-level impacts per unit than stationary source emissions, since they are discharged and dispersed close to the ground. The two main types of fugitive emissions are Volatile Organic Compounds

(VOCs) and particulate matter (PM). Other contaminants (NO_x, SO₂ and CO) are mainly associated with combustion processes, as described emissions should establish the need for ambient quality assessment and monitoring practices.

Open burning of solid wastes, whether hazardous or nonhazardous, is not considered good practice and should be avoided, as the generation of polluting emissions from this type of source cannot be controlled effectively.

In all the aspects of the Project welding works will be carried out. Emissions from welding operations, exhaust gases from construction equipment, vehicles and paint jobs are minor and temporary and do not affect the surface layer of the atmosphere.

During the construction of cogeneration plants and relaying of heat pipelines will be carried out excavation work that will lead to the process of dusting which will have a negative impact on people who live nearby.

In the process of operation of cogeneration plants into the air carbon monoxide, nitrogen dioxide, mercury and greenhouse gases (methane, carbon dioxide and the nitrous oxide) will be emitted and formed during natural gas combustion in heat-generating modules.

Mobile Sources – Land-based

Similar to other combustion processes, emissions from vehicles include CO, NO_x, SO₂, PM and VOCs. Emissions from on-road and off-road vehicles should comply with national or regional programs. In the absence of these, the following approach should be considered:

- Regardless of the size or type of vehicle, fleet owners / operators should implement the manufacturer recommended engine maintenance programs;
- Drivers should be instructed on the benefits of driving practices that reduce both the risk of accidents and fuel consumption, including measured acceleration and driving within safe speed limits.

Emissions of pollutants and greenhouse gases at 12 the boilers which will closure and installation of individual heating stations are given in Tables 10 respectively (data on the results of 2013).

Table 10 Emissions of pollutants and greenhouse gases at 12 the boiler houses

Kind of fuel used	Current fuel volume Per year, thousand.m ³	Pollutants and greenhouse gases	Volume of emissions per year, thousand t	Reduction of fuel consumption volume, thousand m ³
Natural gas	3 558.660	NO ₂	0.007	142.0
		CO	0.008	
		CO ₂	6.854	

Emissions of pollutants and greenhouse gases at 57 the boilers (reconstruction of 40 existing boiler houses and installation of 17 a new container boiler houses with decommissioning of existing built-in boiler houses in the City of Kharkiv are given in Tables 11 (data on the results of 2013).

Table 11. Emissions of pollutants and greenhouse gases at 57 the boilers.

Kind of fuel used	Current fuel volume Per year, thousand.m ³	Pollutants and greenhouse gases	Volume of emissions per year, thousand t	Reduction of fuel consumption volume, thousand m ³
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Natural gas	38 008.992	NO ₂	0.061	960.0
		CO	0.061	
		CO ₂	71.934	

Particulate matter

The most common pollutant involved in fugitive emissions is dust or particulate matter (PM). This is released during certain operations, such as transport and open storage of solid materials, and from exposed soil surfaces, including unpaved roads. Recommended prevention and control of these emissions sources include:

- Use of dust control methods, such as covers, water suppression, or increased moisture content for open materials storage piles, or controls, including air extraction and treatment through a baghouse or cyclone for material handling sources, such as conveyors and bins;
- Use of water suppression for control of loose materials on paved or unpaved road surfaces. Oil and oil by-products is not a recommended method to control road dust. Examples of additional control options for unpaved roads include those summarized in table below.

Control Type	Control Type
Wet Suppression – Watering	12% - 98%
Speed Reduction	0% - 80%
Vacuum Sweeping	0% - 58%
Water Flushing/Broom Sweeping	0% - 96%

Ozone Depleting Substances (ODS)

Several chemicals are classified as ozone depleting substances (ODSs) and are scheduled for phase-out under the Montreal Protocol on Substances that Deplete the Ozone Layer. No new systems or processes should be installed using CFCs, halons, 1,1,1-trichloroethane, carbon tetrachloride, methyl bromide or HBFCs. HCFCs should only be considered as interim / bridging alternatives as determined by the host country commitments and regulations.

(Examples include: chlorofluorocarbons (CFCs); halons; 1,1,1-trichloroethane (methyl chloroform); carbon tetrachloride; hydrochlorofluorocarbons (HCFCs); hydrobromofluorocarbons (HBFCs); and methyl bromide. They are currently used in a variety of applications including: domestic, commercial, and process refrigeration (CFCs and HCFCs); domestic, commercial, and motor vehicle air conditioning (CFCs and HCFCs); for manufacturing foam products (CFCs); for solvent cleaning applications (CFCs, HCFCs, methyl chloroform, and carbon tetrachloride); as aerosol propellants (CFCs); in fire protection systems (halons and HBFCs))

Monitoring

The air quality monitoring program should consider the following elements:

- Monitoring parameters:

For combustion processes, indicator parameters typically include the quality of inputs.

- **Baseline calculations:** Before a project is developed, baseline air quality monitoring at and in the vicinity of the site should be undertaken to assess background levels of key pollutants, in order to differentiate between existing ambient conditions and project-related impacts.

- **Monitoring type and frequency:** Data on emissions and ambient air quality generated through the monitoring program should be representative of the emissions discharged by the project over time. Examples of time-dependent variations in the manufacturing process include batch process manufacturing and seasonal process variations. Emissions from highly variable processes may need to be sampled more frequently or through composite methods. Emissions monitoring frequency and duration may also range from continuous for some combustion process operating parameters or inputs (e.g. the quality of fuel) to less frequent, monthly, quarterly or yearly stack tests.

- **Monitoring locations:** Ambient air quality monitoring may consist of off-site or fence line monitoring either by the project sponsor, the competent government agency, or by collaboration between both. The location of ambient air quality monitoring stations should be established based on the results of scientific methods and mathematical models to estimate potential impact to the receiving airshed from an emissions source taking into consideration such aspects as the location of potentially affected communities and prevailing wind directions.

- **Sampling and analysis methods:** Monitoring programs should apply national or international methods for sample collection and analysis, such as those published by the International Organization for Standardization,²⁶ the European Committee for Standardization,²⁷ or the U.S. Environmental Protection

Agency.²⁸ Sampling should be conducted by, or under, the supervision of trained individuals. Analysis should be conducted by entities permitted or certified for this purpose.

Sampling and analysis Quality Assurance / Quality Control (QA/QC) plans should be applied and documented to ensure that data quality is adequate for the intended data use (e.g., method detection limits are below levels of concern). Monitoring reports should include QA/QC documentation.

5.2. Noise impact

The main sources of noise from construction and dismantling are the traffic, use of construction equipment directly at the construction site (dump trucks, excavators, cranes, bulldozers, graders, etc.), processing of materials, installation of new equipment, piping, demolition of old infrastructure (old boilers).

Noise can adversely affect employees in cases where they do not use appropriate personal protective equipment and cause, thus, the risk of occupational diseases. As well the noise may cause inconvenience to the people who live and work near the areas of construction and dismantling. For this purpose, it is necessary to provide noise protection screens in the work execution sites.

Methods for prevention and control of sources of noise emissions depend on the source and proximity of receptors. Noise reduction options that should be considered include:

- Selecting equipment with lower sound power levels
- Installing silencers for fans
- Installing suitable mufflers on engine exhausts and compressor components
- Installing acoustic enclosures for equipment casing radiating noise
- Improving the acoustic performance of constructed buildings, apply sound insulation
- Installing acoustic barriers without gaps and with a continuous minimum surface density of 10 kg/m² in order to minimize the transmission of sound through the
- Installing vibration isolation for mechanical equipment
- Limiting the hours of operation for specific pieces of equipment or operations, especially mobile sources operating through community areas
- Re-locating noise sources to less sensitive areas to take advantage of distance and shielding
- Taking advantage of the natural topography as a noise buffer during facility design

- Reducing project traffic routing through community areas wherever possible
- When performing the works on the PROJECT the noise impact will be short-term and insignificant.

5.3. Impact on quality of the surface and underground water

The technological processes which are associated with the constant direct influence on the water environment are absent..

But the discharge of sewage into wastewater treatment systems is the indirect impact.

Discharges of industrial wastewater, sanitary wastewater, wastewater from utility operations or stormwater into public or private wastewater treatment systems should:

- Meet the pretreatment and monitoring requirements of the sewer treatment system into which it discharges.
- Not interfere, directly or indirectly, with the operation and maintenance of the collection and treatment systems, or pose a risk to worker health and safety, or adversely impact characteristics of residuals from wastewater treatment operations.
- Be discharged into municipal or centralized wastewater treatment systems that have adequate capacity to meet local regulatory requirements for treatment of wastewater generated from the project. Pretreatment of wastewater to meet regulatory requirements before discharge from the project site is required if the municipal or centralized wastewater treatment system receiving wastewater from the project does not have adequate capacity to maintain regulatory compliance.

Surface water and underground water can be contaminated by accidental spills and fuel leaks from machinery and equipment during the period of PROJECT implementation, as well as surface runoff from the temporary construction sites containing suspended substances, organic substances and oil products.

Impact on ground water is possible just in case of pipeline accident during operation, when water leaks out till the level of ground waters and causes increase of the level and as a result of this flooding of land.

To avoid this impact the emergency prevention activities are provided, which allow exclude contamination of the surface and ground waters in the period of construction and operation.

5.4. Impact on soil

Soil can be contaminated as a result of accidental spills and leaks of oil and fuel, machinery and equipment, as well as cleaning of vehicles on the construction site.

5.5. Waste treatment

Facilities that generate and store wastes practices the following:

- Establishing waste management priorities at the outset of activities based on an understanding of potential Environmental, Health, and Safety (EHS) risks and impacts and considering waste generation and its consequences
- Establishing a waste management hierarchy that considers prevention, reduction, reuse, recovery, recycling, removal and finally disposal of wastes.
- Avoiding or minimizing the generation waste materials, as far as practicable
- Where waste generation cannot be avoided but has been minimized, recovering and reusing waste

Where waste can not be recovered or reused, treating, destroying, and disposing of it in an environmentally sound manner

When carrying out works on dismantling the old equipment will form various types of waste, improper storage may lead to contamination of soil, groundwater and surface water, as well as injury to workers, visitors to production areas and passers-by.

A general list of waste types that may be formed during the implementation of the Project

Wastes	Class of hazard	Conditions of temporary storage
Waste fluorescent lamps	1	Putting in the containers of manufacturer, storage in the warehouse
Spent oils and motor grease, transmission	2	To store in hermetic barrels (for example, in the manufacturer's containers) with the appropriate marking
Oiled wastes (rags, sand, soil, gaskets which are polluted by oil products, seals)	3	To use closed containers
Containers after paint	3	To use a container
Waste filament lamp	3	To use closed container
Ferrous scrap	3	In a specially designated place with asphalt covering
Wastes of PVC-insulated cable	3	To store in containers
Non-ferrous scrap	3	To store in containers
Wastes of fiberglass	3	To store in containers
Wastes of ruberoid	3	To store in containers
Asbestos or asbestos-containing materials (Spoiled materials and construction products containing asbestos)	4	To store in a plastic container or in the labeled strong plastic disposable bags
Wastes of refractories	4	In a specially designated place with asphalt covering
Construction wastes	4	In a specially designated place with asphalt covering

Plastic wrap	4	To store in containers
Mixed municipal wastes	4	To store in closed containers
Used and spoiled cardboard	4	To store in closed containers
Wastes of wood	4	To store in closed containers
Recycled glass	4	To store in containers
Wastes obtained during the cleaning of the territory	4	To store in containers

5.6. Waste Storage

Hazardous waste is stored so as to prevent or control accidental releases to air, soil, and water resources in area location where:

- Waste is stored in a manner that prevents the commingling or contact between incompatible wastes, and allows for inspection between containers to monitor leaks or spills. Examples include sufficient space between incompatibles or physical separation such as walls or containment curbs
- Store in closed containers away from direct sunlight, wind and rain
- Secondary containment systems should be constructed with materials appropriate for the wastes being contained and adequate to prevent loss to the environment
- Secondary containment is included wherever liquid wastes are stored in volumes greater than 220 liters. The available volume of secondary containment should be at least 110 percent of the largest storage container, or 25 percent of the total storage capacity (whichever is greater), in that specific location
- Provide adequate ventilation where volatile wastes are stored.

Hazardous waste storage activities also are subject to special management actions, conducted by employees who have received specific training in handling and storage of hazardous wastes:

- Provision of readily available information on chemical compatibility to employees, including labeling each container to identify its contents
- Limiting access to hazardous waste storage areas to employees who have received proper training
- Clearly identifying (label) and demarcating the area, including documentation of its location on a facility map or site plan
- Conducting periodic inspections of waste storage areas and documenting the findings
- Preparing and implementing spill response and emergency plans to address their accidental release (additional information on Emergency Plans is provided in Section 3 of this document)
- Avoiding underground storage tanks and underground piping of hazardous waste

Monitoring

Monitoring activities associated with the management of hazardous and non-hazardous waste include the following:

- Regular visual inspection of all waste storage collection and storage areas for evidence of accidental releases and to verify that wastes are properly labeled and stored. When significant quantities of hazardous wastes are generated and stored on site, monitoring activities should include:
 - Inspection of vessels for leaks, drips or other indications of loss
 - Identification of cracks, corrosion, or damage to tanks, protective equipment, or floors emissions, or monitoring stations (air, soil vapor, or groundwater)
 - Documenting any changes to the storage facility, and any significant changes in the quantity of materials in storage
- Regular audits of waste segregation and collection practices
- Tracking of waste generation trends by type and amount of waste generated, preferably by facility departments
- Characterizing waste at the beginning of generation of a new waste stream, and periodically documenting the characteristics and proper management of the waste, especially hazardous wastes
- Keeping manifests or other records that document the amount of waste generated and its destination
- Periodic auditing of third party treatment, and disposal services including re-use and recycling facilities when significant quantities of hazardous wastes are managed by third parties. Whenever possible, audits should include site visits to the treatment storage and disposal location
- Regular monitoring of groundwater quality in cases of Hazardous Waste on site storage and/or pretreatment and disposal
- Monitoring records for hazardous waste collected, stored, or shipped should include:
 - Name and identification number of the material(s) composing the hazardous waste
 - Physical state (i.e., solid, liquid, gaseous or a combination of one, or more, of these)
 - Quantity (e.g., kilograms or liters, number of containers)
 - Waste shipment tracking documentation to include, quantity and type, date dispatched, date transported and date received, record of the originator, the receiver and the transporter
 - Method and date of storing, repacking, treating, or disposing at the facility, cross-referenced to specific manifest document numbers applicable to the hazardous waste
 - Location of each hazardous waste within the facility, and the quantity at each location

The revised list and quantitative indicators will be specified in each individual subproject in the project documentation.

5.7. Prevention of emergency situations

Hazards posed to the public while accessing project facilities may include:

- Physical trauma associated with failure of building structures
- Burns and smoke inhalation from fires
- Injuries suffered as a consequence of falls or contact with heavy equipment
- Respiratory distress from dust, fumes, or noxious odors
- Exposure to hazardous materials

Reduction of potential hazards is best accomplished during the design phase when the structural design, layout and site modifications can be adapted more easily.

The following issues should be considered and incorporated as appropriate into the planning, siting, and design phases of a project:

Inclusion of buffer strips or other methods of physical separation around project sites to protect the public from major hazards associated with hazardous materials incidents or process failure, as well as nuisance issues related to noise, odors, or other emissions

· Incorporation of siting and safety engineering criteria to prevent failures due to natural risks posed by earthquakes, tsunamis, wind, flooding, landslides and fire. To this end, all project structures should be designed in accordance with engineering and design criteria mandated by site-specific risks, including but not limited to seismic activity, slope stability, wind loading, and other dynamic loads

· Application of locally regulated or internationally recognized building codes⁸⁰ to ensure structures are designed and constructed in accordance with sound architectural and engineering practice, including aspects of fire prevention and response

· Engineers and architects responsible for designing and constructing facilities, building, plants and other structures should certify the applicability and appropriateness of the structural criteria employed.

In case of nonobservance of the established norms and safety rules any accident situations may occur, connected with fire and explosions. This can lead to injury to workers and persons visiting the production area or passing by and to the damage of the objects of property. Measures to prevent emergency situations at the Project sites are reflected in section 6 "Safety rules and labor protection".

5.8. Impact on flora

When relaying the pipelines of heat networks, the civil works will be carried out, which may have a negative impact on the flora and fauna.

Construction of cogeneration plant at address of 4, Artema Vedelia str. will be carried out at the territory of the current district boiler house. In the area of this planned area of construction felling of trees has not been envisaged.

Negative impact on flora of construction of cogeneration plant at boiler house "Hartron" at 1, Akademika Proskury str. is not possible to determine by now, because of absence of the project decisions.

During the construction of a modular boiler house, there may be a negative impact of flora objects, such as the relocation of the flower beds, shrubs, trees and their pruning

5.9. Transportation impact

The growth in traffic of heavy equipment and trucks towards the construction sites and the dismantling of the back increases the risk of road accidents. The cause of road accidents can also be the improper organization of production processes.

Traffic safety should be promoted by all project personnel during displacement to and from the workplace, and during operation of project equipment on private or public roads. Prevention and control of traffic related injuries and fatalities should include the adoption of safety measures that are protective of project workers and of road users, including those who are most vulnerable to road traffic accidents. Road safety initiatives proportional to the scope and nature of project activities should include:

Adoption of best transport safety practices across all aspects of project operations with the goal of preventing traffic accidents and minimizing injuries suffered by project personnel and the public.

Measures should include:

Emphasizing safety aspects among drivers

- Improving driving skills and requiring licensing of drivers
- Adopting limits for trip duration and arranging driver rosters to avoid overtiredness
- Avoiding dangerous routes and times of day to reduce the risk of accidents
- Use of speed control devices (governors) on trucks, and remote monitoring of driver actions

Regular maintenance of vehicles and use of manufacturer approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure

Where the project may contribute to a significant increase in traffic along existing roads, or where road transport is a significant component of a project, recommended measures include:

- Minimizing pedestrian interaction with construction vehicles
- Collaboration with local communities and responsible authorities to improve signage, visibility and overall safety of roads, particularly along stretches located near schools or other locations where children may be present. Collaborating with local communities on education about traffic and pedestrian safety (e.g. school education campaigns)
- Coordination with emergency responders to ensure that appropriate first aid is provided in the event of accidents
- Using locally sourced materials, whenever possible, to minimize transport distances. Locating associated facilities such as worker camps close to project sites and arranging worker bus transport to minimizing external traffic
- Employing safe traffic control measures, including road signs and flag persons to warn of dangerous conditions

5.10. Impact on human health

Failure to comply with safety rules and hygiene of labor may lead to injury employees in the areas of construction and dismantling.

Negative impact on human health during the implementation of dismantling or building with old insulating materials for boilers and pipes containing asbestos. When carrying out welding and dyeing works also possible negative impact on human health.

Solid particles from a wide variety of industrial operations, and / or a liquid chemical spray may strike a worker in the eye causing an eye injury or permanent blindness.

Exposed or faulty electrical devices, such as circuit breakers, panels, cables, cords and hand tools, can pose a serious risk to workers. Overhead wires can be struck by metal devices, such as poles or ladders, and by vehicles with metal booms. Vehicles or grounded metal objects brought into close proximity with overhead wires can result in arcing between the wires and the object.

Projects should implement risk management strategies to protect the community from physical, chemical, or other hazards associated with sites under construction and decommissioning. Risks may arise from inadvertent or intentional trespassing, including potential contact with hazardous materials, contaminated soils and other environmental media, buildings that are vacant or under construction, or excavations and structures which may pose falling and entrapment hazards. Risk management strategies may include:

- Restricting access to the site, through a combination of institutional and administrative controls, with a focus on high risk structures or areas depending on site-specific situations, including fencing, signage, and communication of risks to the local community
- Removing hazardous conditions on construction sites that cannot be controlled affectively with site access restrictions, such as covering openings to small confined spaces, ensuring means of escape for larger openings such as trenches or excavations, or locked storage of hazardous materials

5.11. Impact on social and economic development

There is no expected permanent negative impacts on the industrial, housing and commercial facilities, surface and underground structures, cultural landscapes and it will not lead to resettlement. Although temporary negative influences on community and the environment are possible during the implementation of the Project, like temporary traffic constraints, restrictions on access to public places, noise, small emissions, etc.

General expected Project effect for the consumer:

- improving the quality of services provided to the population for central heating and hot water;
- improvement of the environment in the city, due to the reduction of negative effect;
- reducing the pressure on raising tariffs for services in a heat supply as a result of lower cost of production, transportation and supply of thermal energy and reduce the operating costs of the enterprise.

Implementation of all the directions of the Project to ensure the reliability and quality of the provided heat supply services for the population of Kharkov, as well as reduce the cost of utility bills. Another important intention of this Project is to reduce the losses of heating in the network and to avoid accidents in the networks of district heating, which could cause by pipe breaks.

Implementation of Project will provide:

- Reduction of natural gas consumption
- Reduction of emissions of harmful emissions
- Reducing network heating losses
- Reducing water loss
- Reduced maintenance costs.

The construction of cogeneration stations will allow to partially cover the needs for electric energy for boiler houses during the heating period (not less than 70%) and fully in the inter-heating period (100%), increase the reliability of electricity supply, additionally gain heat energy from utilization of waste gases as a result of operation of cogeneration modules, and raise the efficiency of the heat source as a whole. In addition, at the expense of own electric energy generation at the heat source, the cost of purchased electric energy in the energy supply organization will be reduced.

As a result of reconstruction 58 of boiler houses, Public Utility “Kharkivski teplovi merezhi” will improve the quality of heat supply services and the following economic effect:

- Decrease the consumption of fuel (natural gas) and energy resources due to the replacement of obsolete equipment;
- Reduction of future maintenance costs related to depreciation of boiler houses main and ancillary equipment, and due to the installation of equipment which does not require significant expenditures for technical maintenance and repairing;
- Reduction of salary fund due to automatization and dispatching control of boiler houses;
- Faultless operation of equipment;
- Provision of uninterrupted and high-quality services to consumers.

Installation of 1,000 of heat meters and other mechanical and electrical equipment in the heat supply stations of residential houses and 250 individual heating points in residential buildings will allow to conduct commercial heat accounting in thermal substations of multi-storey apartment buildings in the city of Kharkov and improve the efficiency of using heat energy and the quality of heat supply services.

As a result of implementation of SCADA, Public Utility “Kharkivski teplovi merezhi” plans to achieve greater efficiency of operational dispatch management of operating regimes in generation, transmission and distribution of thermal energy with the lowest cost and improve the quality of services for the population.

Automation system of commercial electrical power metering will allow to achieve the best technical-economic characteristics due to control of the equipment operating parameters of heat sources and network, targeted management processes, awareness-raising and operational activities of the staff. Other directions of the Project such as Commissioning of steam turbogenerator and reconstruction of steam boiler at CHP-3, Modernization of pump stations and boiler houses with reconstruction of distribution facilities 6 kV, replacement of pumpsets and installation of frequency converters for electric motors of pumps, Reconstruction of heat networks. Decommissioning of 12 boiler houses will improve of the quality of services for the population.

Although temporary negative influences on community and the environmental are possible during the implementation of the Project.

All the possible PROJECT impacts on the environmental and social sphere are given in Table 12.

Table 12. Possible impacts on the environmental and social sphere of Kharkiv during the process of the PROJECT implementation.

Main aspects of the project	Negative impact	Positive impact
1. Construction of cogeneration plants.	<ol style="list-style-type: none"> 1. Impact on atmospheric air. 2. Noise impact. 3. Soil pollution. 4. Emergency situations. 5. Impact on flora. 6. Impact when transporting. 7. Impact on human health. 8. Impact on the social environment 	<ol style="list-style-type: none"> 1. Increase of reliability and quality of provided heat supply services. 2. Reduction of CO₂ emissions into the atmospheric air. 3. Creating of some additional working places in the process of the Project implementation. 4. Accident prevention
2. Decommissioning of boiler houses, installation of heat supply stations and reconstruction of heat networks.	<ol style="list-style-type: none"> 1. Impact on atmospheric air. 2. Noise impact. 3. Soil pollution. 4. Emergency situations 5. Impact on flora. 6. Impact when transporting. 7. Impact on human health. 8. Impact on the social environment 	<ol style="list-style-type: none"> 1. Increase of reliability and quality of provided heat supply services. 2. Reduction of CO₂ emissions into the atmospheric air. 3. Accident prevention
3. Reconstruction of boiler houses with construction of 16 modular type boiler houses	<ol style="list-style-type: none"> 1. Impact on atmospheric air. 2. Noise impact. 3. Soil pollution. 4. Emergency situations 5. Impact on flora. 6. Impact when transporting. 7. Impact on human health. 8. Impact on the social environment 	<ol style="list-style-type: none"> 1. Increase of reliability and quality of provided heat supply services. 2. Reduction of CO₂ emissions into the atmospheric air. 3. Reduction of the heat energy consumption by population. 4. Accident prevention
4. IHP installation in the residential buildings.	<ol style="list-style-type: none"> 1. Noise impact. 2. Soil pollution. 3. Emergency situations 4. Impact on human health. 5. Impact on the social environment 	<ol style="list-style-type: none"> 1. Increase of reliability and quality of provided heat supply services. 2. Reduction of CO₂ emissions into the atmospheric air. 3. Increase of number of people who have access to more energy efficient technologies and objects. 4. Accident prevention

5. Installation of heat meters and other mechanical and electrical equipment in the heat supply stations of the residential buildings	<ol style="list-style-type: none"> 1. Noise impact. 2. . Soil pollution. 3. Emergency situations 4. Impact on human health. 5. Impact on the social environment 	<ol style="list-style-type: none"> 1. Reducing the expenditure of heat and consequently improving the quality of services of heat supply. 2 Reduction of CO₂ emissions into the atmospheric air. 3. Accident prevention
6. Commissioning of steam turbogenerator and reconstruction of steam boiler at CHP-3	<ol style="list-style-type: none"> 1. Noise impact. 2. Soil pollution. 3. Emergency situations 4. Impact on human health. 	<ol style="list-style-type: none"> 1. Reduction of CO₂ emissions into the atmospheric air. 2. Improving the reliability and quality of provided services 3. Accident prevention
7 Modernization of the pump stations and boiler houses with reconstruction of distribution 6 KV devices, replacement of the pump units and installation of the frequency converters at electrical engines of the pump units.	<ol style="list-style-type: none"> 1. Noise impact. 2. Soil pollution. 3. Emergency situations 4. Impact on human health. 	<ol style="list-style-type: none"> 1. Increase of reliability and quality of provided heat supply services. 2. Reduction of CO₂ emissions into the atmospheric air. 3. Accident prevention
8. Reconstruction of heat networks.	<ol style="list-style-type: none"> 1. Impact on atmospheric air. 2. Noise impact. 3. Soil pollution. 4. Emergency situations 5 Impact on flora 6. Impact when transporting. 7. Impact on human health. 8. Impact on the social environment 	<ol style="list-style-type: none"> 1. Increase of reliability and quality of provided heat supply services. 2. Reduction of the heat energy consumption by population. 3. Accident prevention.
9. Introduction of automation, dispatching and commercial electricity metering.	<ol style="list-style-type: none"> 1 Soil pollution. 2. Emergency situations 	<ol style="list-style-type: none"> 1. Increase of reliability and quality of provided heat supply services. 2. Reduction of CO₂ emissions into the atmospheric air. 3. Accident prevention.
10. Introduction of SCADA system.	<ol style="list-style-type: none"> 1 Soil pollution. 2. Emergency situations 	<ol style="list-style-type: none"> 1. Increase of reliability and quality of provided heat supply services. 2. Reduction of CO₂ emissions into the atmospheric air. 3. Accident prevention.

6. SAFETY RULES AND LABOUR PROTECTION

Conditions of labor at working place, safety of the technological processes, machines, mechanisms, equipment and other production facilities, state of measures of the collective and individual protection, used by the employee, as well as sanitary-amenity conditions shall meet the legislation requirements and provided at all stages of the PROJECT implementation.

The basic normative acts, adjusting safe labor conditions are as follows:

- Act of Ukraine “On Labor Protection”;
- DBN A.3.2.-2-2009 “Labor protection and industrial safety in construction”
- DNAOP 0.00-1.21-98 “Rules of safe operation of the electrical plants of consumers”;
- DNAOP 0.00-1.20-98 “Safety rules of gas supply systems of Ukraine”;
- NAPB B.06.044-2005 “Fire safety rules in Ukraine”;
- GKD 34.20.507-2003 “Rules of the technical operation of the electric plants and network”;
- DNAOP 0.00-1.11-98 “Rules of construction of safe operation of pipelines of steam and hot water”;
- DNAOP 0.00-1.26-96 “Rules of construction and safe operation of steam boilers with steam pressure no more than 0.07 MPa (0.7 kGs/cm²), hot-water boilers and feed-water heaters with heating temperature of no higher than 115⁰C”;
- DNAOP 1.1.10-1.04-01 “Rules of safe operation with the instrument and appliance”;
- DNAOP 1.1.10-1.02-01 “Rules of safe operation of thermal and mechanical equipment of electric power plants and heat networks”;
- Rules of technical operation of heat supply plants and network, approved by the order of Ministry of Fuel and Energy of Ukraine February 14, 2007 71.

The contractor organization is obliged with customers and subcontractors to develop and adopt measures for safety and industrial hygiene mandatory for all organizations involved in the construction.

Construction and assembly works are allowed to proceed only in the presence of the design-budget documentation and the plan of construction organization, which shall be developed in all the activities to ensure safety and industrial hygiene.

Construction sites, work areas and workplaces shall be prepared for the safe execution of works.

When performing the works at construction site the contractor organization shall provide the employees with sanitary-amenity premises (cloakrooms, shower rooms, wash basins, driers for clothes and shoes, premises for heating up, for having meals and rest, for personal hygiene of women, lavatories etc.), drinking water and medical service according to the current norms. Sanitary-amenity premises and equipment shall be put into operation prior to starting of the works execution.

During the operation of construction machines some means of measures on mechanization, fixtures, tooling, manual machines tools should be provided to prevent the impact on workers of dangerous and harmful production factors (GOST 12.0.003):

- elevated levels of noise, vibration, air pollution, dustiness of the working area of the driver;
- inadequate illumination of working area;
- high voltage in an electric circuit, circuit which may occur through the human body.

Construction machines shall meet the requirements of the normative documents and operational documentation shall be with them, and cranes and other machines having been purchased abroad shall have certificate of satisfaction to requirements of labor safety (NPAOP 0.00-1.01). Operation of mechanical means is prohibited without enclosures, blocks, alarm systems and other means of collective protection of the employees provided by their design.

When performing transportation and handling operations it is required follow the requirements of DBN A.3.1-5, NPAOP 0.00-1.01, MAPB A.01.001, DBN B.1.1-7, DBN B.1.2-7, NPAOP 60.2-1.28.

Handling works and warehousing of cargo using lifting cranes and machines at stationary warehouses, construction sites, bases shall be performed according to requirements of NPAOP 63.11-7.01 and the process maps, developed and approved at enterprise (organization) performing the specified works.

During erection of construction structures, products, pipelines and equipment it is required providing measure to avoid negative impact on the employees of such unsafe and harmful production factors as:

- the location of work close to the height difference of 1.3 m and more;
- moving machines, their actuating devices; travelling of structures, materials;
- collapse of structural elements of buildings and structures;
- falling down of materials, tools;
- performance of the works in the area close to overhead transmission lines;
- lifting cargo, weight of which exceeds lifting capacity of mechanisms;
- insufficient rigidity of the structure, which can cause its destroy during erection;
- roll over of machines, drop their parts;
- inadequate illumination of working places;
- increased voltage in an electrical circuit, the circuit which might occur through the human body.

Due to presence of unsafe and harmful factors safety of erection works shall be provided by means as follows:

- exact determination of the place of the crane installation with its grade name, specifying unsafe areas during its work;
- determination of the load weight that is to be lifted;
- provision of safety of the working places at height;
- sequencing and ensure safe installation of structures;
- sustainability of structures and building parts in the construction;
- specifying the scheme and pre-assembly of structural elements.

In the working area of erection works it is prohibited to perform any other works and staying of the unauthorized persons.

Prior to the dismantling of buildings and structures and their renovation or demolition the measures shall be provided to prevent workers exposure to the following dangerous and harmful production factors, such as:

- the collapse of structural elements of buildings and structures, falling loose structures, equipment;
- machines that move and things that move them;
- sharp edges, corners, pins;
- the high content of airborne dust, harmful substances;
- increased noise level, vibration in the workplace;
- location of the working place near height difference 1.3 m and higher.

Before disassembly, reconstruction and capital repair it is necessary to examine the general condition of the building (construction), as well as the foundations, walls, columns, arches and other structures, as well as for superstructures of the foundations. According to the results of study they draw up the act based on which they develop construction management project (CMP) and work execution project (WEP).

During disassembly of buildings, works in the conditions of production or within a city building that we have, access to the work site persons not involved in the execution of these works is prohibited. Areas where the work is performed are necessary to be protected according to GOST 23407.

When performing the works, it is necessary to secure the correct technological order of production operations.

Location of temporary and permanent transportation ways, power supply network, and cranes of motorized units, storage areas and other appliances shall meet the instructions in the project.

At the territory of construction there shall be pointers of driveways and walkways.

Dangerous areas shall be enclosed, or put at their borders warning writing and signals, visible at daytime and at night.

In case of appearing any dangerous working conditions at site (landslides, sediment grounds under the scaffolding, broken power lines), people shall be evacuated immediately and the unsafe places shall be enclosed.

Works performed in the electricity line area with the use of construction machinery (crane, tower) and mechanisms should be carried out under the direct supervision of an engineer and technician worker, in the presence of an admission.

Excavation in the area of existing underground utilities should be under the direct supervision of the foreman or the master, and in the buffer zone of the cables, under voltage, or operating a pipeline, except under the supervision of employees of electric or gas facilities.

It is not allowed to perform installation work at height in exposed places when the wind speed is 15 m/s or more, ice, storm or fog, excluding the visibility within the scope of work.

Traffic Safety

Traffic accidents have become one of the most significant causes of injuries and fatalities among members of the public worldwide. Traffic safety should be promoted by all project personnel during displacement to and from the workplace, and during operation of project equipment on private or public roads. Prevention and control of traffic related injuries and fatalities should include the adoption of safety measures that are protective of project workers and of road users, including those who are most vulnerable to road traffic accidents. Road safety initiatives proportional to the scope and nature of project activities should include:

- Adoption of best transport safety practices across all aspects of project operations with the goal of preventing traffic accidents and minimizing injuries suffered by project personnel and the public. Measures should include: Emphasizing safety aspects among drivers
- Improving driving skills and requiring licensing of drivers
- Adopting limits for trip duration and arranging driver rosters to avoid overtiredness
- Avoiding dangerous routes and times of day to reduce the risk of accidents
- Use of speed control devices (governors) on trucks, and remote monitoring of driver actions
- Regular maintenance of vehicles and use of manufacturer approved parts to minimize potentially serious accidents caused by equipment malfunction or premature failure.

Where the project may contribute to a significant increase in traffic along existing roads, or where road transport is a significant component of a project, recommended measures include:

- Minimizing pedestrian interaction with construction vehicles
- Collaboration with local communities and responsible authorities to improve signage, visibility and overall safety of roads, particularly along stretches located near schools or other locations where children may be present. Collaborating with local communities on education about traffic and pedestrian safety (e.g. school education campaigns)
- Coordination with emergency responders to ensure that appropriate first aid is provided in the event of accidents
- Using locally sourced materials, whenever possible, to minimize transport distances. Locating associated facilities such as worker camps close to project sites and arranging worker bus transport to minimizing external traffic Employing safe traffic control measures, including road signs and flag persons to warn of dangerous conditions

The speed of vehicles on construction sites must not exceed 10 km/h, on bends and in the working areas cranes – 5 km/h.

All the workers of the engineering and technical personnel involved in construction shall go through the safety instructions of the company and in the workplace.

At the construction sites it is required to place fire extinguishing equipment, fire panels, fire alarm audible signal.

When operating the equipment, it is required to strictly adhere to fire safety regulations. Operating staff should monitor the working condition of fire extinguishers. It is prohibited to extinguish electric installations with help of water and foam fire extinguishers.

Staff should be trained to provide first aid measures.

7. PLAN OF MITIGATION MEASURES

To reduce negative impact of the project on environment and social sector, there have been developed mitigation measures, which are to be implemented during the project in order to reduce potential negative environmental impact on the stages of construction works, dismantling and operation.

Atmospheric air

Construction work can be a source of dust that creates inconvenience for local residents and risk of harm to construction personnel health

With the purpose to reduce this impact the measures will be put in place to ensure permanent use of appropriate individual protection means by the personnel

In the course of work in premises, it's necessary to provide needed ventilation during the excavation work under adverse conditions that lead to increased dustiness, or in case of necessity to minimize dust emissions by means of spraying water, to reduce exhaust emissions from vehicles at the expense of:

- carrying out the regular car inspection
- to carry out control of flue gases;
- optimization of work schedules for minimizing engine operating time.

Noise

To reduce noise and vibration, the following activities are provided:

- main and auxiliary equipment according to the manufacturers specifications should have design that ensures level of sound and vibration in permanent workplaces according to current regulations.
- during loading and transportation, wooden blocks should be utilized under the constructions
- when feeding structures to the installation site by crane, guy hemp ropes should be used to facilitate guidance and exclusion of structure swinging. Scaffolding and ladders for installers must be installed at the bottom before they lift.
- measurements of noise level near the residential building (in cases, where design documentation (or preliminary analysis) has established the possibility of exceeding the permissible noise level).
- to install noise protects screens if necessary (it's determined by design documentation or direct measurement .

Works are to be executed during working hours. Provide workers with personal protective equipment (headphones, anti-noise inserts).

Soils

When carrying out construction works there is mechanical effect on the ground fertile layer (laying of foundations for building of cogeneration plants, building of modular boiler houses, reconstruction of heat networks). When construction organization, there is ensured location of building materials on paved areas, preventing soil pollution. Departure of vehicles is carried out on the existing paved roads to avoid fuel and lubricants spilling on the soil surface.

During the works, it's necessary to prevent leakage of vehicles fuel. If such cases occur, collect spilled oil or fuel and remove top of soil, contaminated with oil or fuel, with subsequent disposal. Forbid transport washing on the construction site.

The project foresees restoration of road asphalt pavement, restoration of vegetation cover/green zone in places of excavations of carriageway streets.

Waste management

During the work execution, it will be provided a collection of waste in sealed containers installed in specially prepared places for temporary storage and a separate collection of waste for which there are technologies of recycling/disposal in Ukraine and removal of waste to the landfill, or specialized company in specially equipped vehicles, excluding possibility of loss of the waste, creation of emergency, harm to the environment and human health.

Compliance with the necessary domestic and sanitary-hygienic requirements, the availability of places for the implementation of personal hygiene. Organization of biotoilets at the objects of work execution.

Preventing of accidents

To prevent accidents is necessary to follow regulations on labour protection and schedules of work.

Personnel involved in the works must be trained and have license for works of heightened danger, and be trained before starting work. It is necessary to conduct regular fire and emergency training of personnel, and conducting of training in first aid.

Cautionary and warning signs should be put up at work places, to pay special attention to the provision of safety measures during performance of work in residential areas near the children's playgrounds. The area should be additionally fenced and lighted.

Impact on flora objects

To reduce the negative impact on flora and fauna during excavation works according to the PROJECT, fertile layer of soil to be removed and taken to designated area. After completion of work, it's necessary to carry out restoration of soil layer, landscaping of surrounding area, organization of lawns and landing of growing plants. Site-specific measures will be described in site ESMPs

Impact during transportation

To reduce negative impact during transportation, there is provided plan development for traffic management in construction area, which includes:

- drawing up transport routes, establishing the maximum speed of traffic, time of delivery of building materials, removal of construction waste to the landfill, etc.;
- drawing up guidelines for construction workers and permanent workers (such as speed limits, ban on alcohol, etc.);
- instructions for contractors (such as drivers, suppliers);
- installation of speed limit signs;
- warning of city residents about upcoming construction activities;
- information on traffic safety;
- informational trainings;

Ensure safe passage for pedestrians in areas of excavation works.

Impact on human health

Impact during the work performance

Provide workers with personal protection equipment (goggles, gloves, respirators) and clothing to reduce negative health effects of toxic materials (asbestos) or their waste,

Works with materials containing asbestos must be conducted in isolation from the other premises using a cloth or plastic coatings to avoid asbestos dust spread.

Collection of waste containing asbestos, must be carried out in hermetically sealed containers, temporary storage should be in space that has asphalt covering, fencing, marking and driveways.

Provide regular wet cleaning of places of work with asbestos and surrounding area. Waste

disposal is carried out by the organization having the appropriate licenses (under the terms of the contract).

When carrying out welding and dyeing works also possible negative impact on human health. Work performed by the personnel should be carried out only in overalls, footwear, safety helmets and with the use of personal protective equipment if necessary.

Impact on human health during excavation work

When carrying out excavation work, provide personnel with personal protective equipment, to reduce the negative impact of dust on human health, to take measures on water spraying and moisturize the soil.

Impact on human health during operation.

The installation of new equipment, the control of pollutants emission from the emission sources and the ambient air condition in the surface layer at the boundary of the sanitary protection zone (SPZ) or near residential house will be conducted after the Project implementation

In order to reduce the negative impact on human health during the operation period, personnel should be provided with overalls and personal protective anti-noise equipment. To prevent the injuries staff should observe the rules on labor protection

Social Impact Assessment

To reduce the negative social impact and inform the population about planned works during the period of Project implementation, the following set of measures being developed:

1. Publication of information about the planned activity and the current state of works on the Project on the company's website http://www.hts.kharkov.ua/proj_news.php#start, on the website of the city council <http://www.city.kharkov.ua/ru/dokumentyi/obyavleniya.html> and in workplaces.
2. Information leaflets for all planned interventions under the project to be disseminated in the affected neighborhoods. including consultations with the community.
3. Carrying out public consultation with the population and to identify the places where trees, flowerbeds, playgrounds, rest arenas, and waste collection sites will be moved, if they are situated on the allocated land.
4. Placing information regarding all the components of the Project during the performance of works in public access areas (bulletin boards, etc.) about the following:
 - Start of construction and its completion;
 - Contractors and Subcontractors of the Project;
 - Persons responsible for the works carried out and for technical supervision (with indication of their contact details);
 - Company's phone numbers and focal point information for public appeals and grievances.
5. Information about possible changes of public transport routes is posted by the municipal authorities on the website of the city council <http://www.city.kharkov.ua/ru/novosti/operativna-nformaczja.html>, in mass media and at public transport stops after the coordination of works performed

under the Project, and which may lead to changes in public transport routes around the city.

To prevent accidents on sites during works under the Project's contracts and protect the health of workers performing the works and the population in close proximity to the site, the Contractors must develop and carry out ESMP under each contract in accordance with Table 11.

During construction works and replacement of heat networks could create temporary restrictions for the residents of the city, the following measures will be applied to ensure the safety of the population:

- Workplaces should be protected by a fence;
- Information about the works performed should be posted;
- Temporary public transport routes (detour) should be organized, as well as passages for pedestrians;
- Road signs should be installed;
- Illumination of workplaces should be provided at nighttime;
- Red warning lights should be set up for works performed at nighttime.

Before the start of the construction works and during the construction phase, periodically, once a week, inspections to detect damage of buildings located along the perimeter of the building site should be carried out.

During the implementation of the Project no need for the additional acquisition of land (private or municipal), which can be leased for entrepreneurship, small business or resettlement is expected. However the screening verification should be done prior to the start of the works.

Plan of mitigation measures is presented in Table 13.

Table 13 - Plan of mitigation measures

Impact	Mitigation Measures	Responsibility for installation	Responsibility for operation
1. STAGE - PRIOR TO CONSTRUCTION			
Waste management	<ol style="list-style-type: none"> 1. Identify and prepare places for temporary storage of waste. Temporary storage places of waste must have impermeable base. 2. Prepare sealed containers for waste collection 3. Prepare storage spaces for asbestos materials. 4. Prepare temporary storage places for waste asbestos with impenetrable base, fences and driveways. 5. Prepare sealed labelled containers for the storage of asbestos wastes. 6. To sign the contracts with enterprises for waste management. 	Contractor -	

Impact during transportation	1. Fencing of construction site from public areas. 2. Prepare plan of traffic management in construction. 3. Ensure safe passage-ways for pedestrians.	Contractor -	
Impact on human health	1. Provide workers with personal protective equipment 2. To make the training before work commencement.	Contractor -	
Impact on social sphere	To agree with communities (school, etc.) carrying out works and trees relocation, playgrounds, waste collection phases, fences, gazebos for rest, flowerbeds.	Contractor -	Public Utility “Kharkivs ki teplovi merezhi
2. STAGE - CONSTRUCTION			
Impact on atmospheric air	1. Ensure minimizing of dust emissions during construction (water spraying). 2. Ensure regular cleaning of open surfaces at the site of works and surrounding areas from dust, moisture of access roads and zones of excavation, cleaning area after work. 3 Ensuring proper technical conditions of entire vehicle, machinery, equipment. 4. Ensure minimizing of emissions from vehicles. 5. Carrying out regular inspection of vehicles. 6. Carry out flue gas control. 7. Prohibit combustion of waste at the site.	Contractor	-
Impact of noise	1. Ensure works implementation during working hours. 2. Ensure timely notification of residents (10 days before) about the need of high noise level works at night time. 3. Ensure workers with individual hearing protection (headphones, anti-noise inserts). 4. If necessary, install noise insulation screens	Contractor	-
Impact on the soil	1. Regular inspections and proper maintenance of vehicles for the leakage of oil/fuel. 2. Prohibit washing vehicles and mechanisms in construction area. 3. Ensure maintenance of vehicles and mechanisms in a specially designated area 4. Ensure collection of spilled oil or fuel and removal of topsoil, temporary storage of contaminated soil in sealed containers and disposal to special company. 5. Ensure recovery of damaged pavement.	Contractor	-
Waste management	1. Ensure separate collection of waste (scrap metal, including electrodes, insulation, solid waste, construction, etc.). 2. Ensure removal of waste for disposal. 3. Restrict access to the area of construction and temporary storage of waste for persons not related to these operations.	Contractor	-

	<p>4. Ensure collection of asbestos waste in special hermetically sealed metal containers.</p> <p>5. Ensure implementation of work with materials containing asbestos in isolation from the surrounding area using a cloth or plastic coatings.</p> <p>6. Ensure regular removal of waste containing asbestos to the landfill and conduct regular wet cleaning of places where works are performed and the surrounding area.</p>		
Preventing of accidents	<p>1. Ensure compliance with requirements of fire safety.</p> <p>2. Ensure development of emergency plan in case of fire.</p> <p>3. Ensure conducting regular fire fighting and emergency training.</p>	Contractor	-
Impact on flora objects	<p>1. Perform cutting of fertile soil and removal for improvement of the city.</p> <p>2. Ensure landfilling of holes, leveling of surface, restoration of soil layer, landscaping of surrounding area, organization of lawns and landing of growing plants after completion of work.</p>	Contractor	-
Impact during transportation	<p>1. Develop plan for traffic management in construction area.</p> <p>2. Establishing limits of safe speed for the works period.</p>	Contractor	-
Impact on human health	<p>1. Ensure compliance with safety regulations.</p> <p>2. Ensure workers with personal protection equipment (goggles, gloves, respirators) and clothing when carrying out works with materials containing asbestos and in other works if necessary.</p> <p>3. Installation of protective screens and shields in the places of welding. Ensuring workers with weld masks.</p> <p>4. Provide workers with sanitation facilities.</p>	Contractor	-
3. STAGE - OPERATION			
Impact on atmospheric air	<p>1. Priority should be given to new equipment and new technologies with low emissions of pollutants. New equipment must meet the emissions standards established in Ukraine. This requirement will be included in the tender documentation.</p> <p>2. To develop, establish the standards of maximum permissible concentrations of emissions into the atmospheric air. Get permission to emit pollutants into the atmosphere by stationary sources.</p> <p>3. To control the level of pollutants in the area of influence of emissions sources.</p>	-	Public Utility “Kharkivs ki teplovi merezhi
Impact of noise	<p>1. Ensure workers with personal protection against noise exposure.</p>	-	Public Utility “Kharkivs

	2. Ensure prevent the spread of noise at the highest possible level - using special structures, noise insulation mats and tissues near sources of noise.		ki teplovi merezhi
Waste management	1. Ensure regular updates of plans for waste disposal. 2. Ensure waste sorting based on maximum expediency. 3. Ensure regular removal and disposal of waste.	-	Public Utility “Kharkivs ki teplovi merezhi
Preventing of accidents	1. Ensure compliance with relevant rules and regulations of fire safety regulations. 2. Develop an emergency plan in case of fire. 3. Ensure training with simulated emergency situations.	-	Public Utility “Kharkivs ki teplovi merezhi
Impact on human health	Ensure compliance with safety regulations	-	Public Utility “Kharkivs ki teplovi merezhi
4. STAGE - DECOMMISSIONING			
Waste management	1. Dismantling the facility and removal of waste		Public Utility “Kharkivs ki teplovi merezhi
Impact on the ground	1. Implementation of remediation (cleaning the territory from remnants of buildings and equipment, structures, construction waste, refilling of trenches, sanitary felling of shrub with subsequent replanting of native species and restoration of soil)		Public Utility “Kharkivs ki teplovi merezhi

8. PLAN OF MONITORING

Purpose of monitoring is to conduct observations of the environment state and implementation of measures to reduce potential negative impact on the environment and social sphere.

Main tasks of the monitoring are:

- fulfilling the requirements of current legislation in organization of ecological monitoring of natural environment and social sphere components;
- receipt and storage of data on the sources of pollution and environment components state in area of the object influence;
- analysis and comprehensive assessment of different environment components current status;
- information provision of the object management for making scheduled and emergency management decisions;
- preparation, keeping and execution of reporting documentation on the results of ecological monitoring;
- obtaining data on effectiveness of environmental protection measures, development of recommendations and proposals for elimination and prevention of negative impact on environment and social sphere.
- collect grievances received during the implementation of the project related to project-related activities from the affected communities and workers

Monitoring is conducted to prevent violations of requirements in field of environmental protection and occupational safety and health to reduce negative influence at work on the PROJECT sites, and timely eliminate violations.

Tasks of monitoring include:

- detection of violations of environmental legislation and labour safety requirements at work on sites, assess their scope and prevent violations;
- ensuring proper implementation of measures to mitigate negative impact on the environment and social sphere;
- ensuring of compliance with requirements of current legislation of Ukraine by construction companies;
- ensuring of design solutions implementation in field of environmental protection by construction companies;
- control of work on protection of surrounding environment after completion of construction phase.

Control is carried out in form of checks, according to the Monitoring Plan given in Table 14.

Table 14 Monitoring Plan.

Parameter of monitoring	Location of monitoring	Type of equipment for monitoring	Periodicity of monitoring	Reason for monitoring	Responsibility for implementation	Responsibility for operation
1. STAGE - PRIOR TO CONSTRUCTION						
Percentage of population, which fall under the impact of Project.	Residential area	Opinion poll	Determination of basic indicator before construction	Definition of service quality improving		Public Utility "Kharkivski teplovi merezhi"
Temporary storage of waste places	Near the construction site	Visually	Prior to construction	Preventing negative effects on soil	Contractor	
Managing of traffic flows	Construction site	Visually	Prior to construction	Safety of personnel	Contractor	
Temporary storage places of waste materials containing asbestos	Contractor construction base. Construction site	Visually	Prior to construction	Safety of personnel	Contractor	
2. STAGE - CONSTRUCTION						
Usage of personal protective equipment (PPE) of breathing organs	Construction site	Visually	Constantly	Safety of personnel	Contractor	*Public Utility "Kharkivski teplovi merezhi"
Usage of hearing organs PPE. Use of appropriate eye PPE for welding, cutting and high dust works. Use of overalls, mittens, special footwear.	Construction site	Visually	Constantly	Safety of personnel	Contractor	*Public Utility "Kharkivski teplovi merezhi"

Spill of oil/fuel on the soil surface	Construction site	Visually	Constantly	Preventing negative effects on soils	Contractor	*Public Utility “Kharkivski teplovi merezhi”
1. Temporary storage places of waste 2. Documentation about waste removal and recycling.	Construction site	Visually	Constantly 1 time per month	Preventing negative effects on soils	Contractor	*Public Utility “Kharkivski teplovi merezhi”
Compliance with fire safety requirements and checking of documentation	Construction site	In accordance with rules of fire safety	Constantly	Safety of personnel	Contractor	*Public Utility “Kharkivski teplovi merezhi”
1. Cutting of fertile soil layer and its removal 2. Restoration of soil layer and landscaping of surrounding area	Construction site	Visually	Before starting work At the end of construction	Preventing negative effects on soils	Contractor	*Public Utility “Kharkivski teplovi merezhi”
Managing of traffic flows and checking of documentation	Construction site	According to the plans of vehicle and special equipment traffic organization	Constantly	Safety of human health	Contractor	*Public Utility “Kharkivski teplovi merezhi”
1. Compliance with safety regulations 2. Management of toxic waste materials (asbestos)	Construction site Locations of asbestos waste. Storage of hazardous	In accordance with safety regulations Visually	Constantly 1 time per month	Safety of human health Safety of human health	Contractor	*Public Utility “Kharkivski teplovi merezhi”

	us material s.					
3. STAGE - OPERATION						
Percentage of population, which noted improvement of quality of heat supply services	Residential area	Opinion poll	2 times per year	Definition of service quality improving		Public Utility “Kharkivski teplovi merezhi”
The control of pollutants by stationary sources	Exhaust pipe of boiler house	Devices, express method	1 times per year	Implementation of Act of Ukraine “On Protection of Atmospheric Air”		Public Utility “Kharkivski teplovi merezhi”
The control of NO ₂ , CO in surface layer of the atmosphere	One sampling point on the border with housing estates	Devices, methods	1 time per year	Compliance with sanitary welfare of the population		ME “Sanepidsevis”
1. Usage of hearing organs PPE 2. Noise level	Workplaces in the boiler house control room	1 Visually 2 Sound Level Meter SHV	Constantly 1 time per year	Compliance with health and safety requirements		Public Utility “Kharkivski teplovi merezhi”
1. Temporary storage places of waste 2. Documentation about waste removal and recycling.	Territory of boiler house	1. Visually 2. In accordance with requirements of environmental legislation	1 time per quarter 1 time per quarter	Compliance with environment protection requirements		Public Utility “Kharkivski teplovi merezhi”

Compliance with fire safety requirements and check of documentation	Boiler house	In accordance with rules of fire safety	Constantly	Safety of working personnel		Public Utility “Kharkivski teplovi merezhi”
Compliance with safety regulations and check of documentation	Workplaces	In accordance with safety regulations	Constantly	Safety of human health		Public Utility “Kharkivski teplovi merezhi”
Management of asbestos waste materials and check of documentation	Locations of asbestos waste	In accordance with requirements of environmental protection legislation	1 time per quarter	Safety of human health		Public Utility “Kharkivski teplovi merezhi”
4. STAGE - DECOMMISSIONING						
1 Presence of waste. 2. Documentation of waste recycling. 3. Implementation of remediation.	Object of decommissioning	In accordance with requirements of environmental protection legislation	After decommissioning	Compliance with environment protection requirements		Public Utility “Kharkivski teplovi merezhi”

*Public Utility “Kharkivski teplovi merezhi” receives monitoring reports on the implementation of mitigation measures plan from the Contractor, and carries out selective monitoring and, accordingly receives breaches reports on elimination of violations by the Contractor.

During periodic inspections there is checked implementation of measures to mitigate the negative impact, waste management organization, presence of environment protection documentation, production documentation of construction companies that carry out work at the site, provided by Environmental and Social Management Plan. Regional Project Implementation Unit is responsible for the monitoring of the project objects. Periodicity of monitoring 1 time per month and unscheduled in the case of receiving signals from the population.

The act, signed by the Customer representatives, is drawn up on the results of each inspection.

Checking is carried out by full-scale survey of the construction site, as well as adjacent areas.

Compliance of ongoing work, methods of execution with Ukraine legislation in the field of environmental protection as well as implementation of environmental protection measures stipulated by the project is checked.

Also, the task of full-scale survey of the facility includes environmental and social problems impact associated with implementation of construction and requires immediate operative intervention; issuing of practical recommendations on optimization of construction works in order to reduce negative impact on the environment and to the affected community.

Identified in the audit violations are recorded by photography if necessary.

In later stages of monitoring there is performed control on elimination of previously identified violations and inspection of construction site to identify new disorders, which haven't been identified here before.

Fact of elimination (or non-elimination) of violations also is to be fixed by photography if necessary.

All violations are recorded in the Act to verify compliance with environmental requirements, which shall be made on the day of inspection.

Control of atmospheric air

Monitoring of air quality is carried out to assess the impact of this work on state of the atmospheric air surface layer.

The project will not significantly affect the state of the air through the use of advanced technologies and equipment. Instead, harmful emissions will be decreased Control over the use of personnel respiratory protection by workers when performing dusty works.

During operation of boiler houses, which were reconstructed, there is carried out selective monitoring of surface air (NO, CO) 1 time per year in 1 point, considering "wind rose". To carry out system analytical control for other substances (PM or SO₂) don't has to. This may be provided on request of the persons concerned.

List of boiler, where sampling of surface air will be conducted is shown in Table 15.

Location of sampling points is shown on the Situation Plan of respective objects, which are given in Annexes 7,9, 10.

Table 15. List of boiler, where selective sampling of surface air will be conducted

No.	Object, address	District name	Control point
1	Boiler house, 7 Hryshchenko Street	Nemyshlianskyi	K1
2	Boiler house, 82A Kulynychivska Street	Nemyshlianskyi	K2
3	Boiler house, 104 Krasnodarska Street	Moskovskyi	K3
4	Boiler house "Pivnichnyi-1", 9A Dzherelna Street	Moskovskyi	K4
5	Boiler house, 5/7 Karpivskyi Lane	Novobavarskyi	K5
6	Boiler house, 2/15 Blahovishchenska Street	Kholodnohirskyi	K6
7	Boiler house, 17 Myrhorodska Street	Osnovianskyi	K7
8	Boiler houses, 14 Bukova Street, 20 Bukova Street, 20A Bukova Street	Shevchenkivskyi	K8
9	Boiler house, 8 Slovianska Street	Kholodnohirskyi	K9
10	Boiler house, "Airport", 9 Nesterova Street	Slobidskyi	K10

11	Boiler house, 4 Artema Vedelia Street	Moskovskiyi	K11
12	Boiler house, 74A Myru Stree	Industrialnyi	K12
13	Boiler house, 1 Akademika Proskury Stree	Kyivskiyi	K13
14	CHP-3, 3 Enerhetychna Street	Nemysylianskyi	K14, K15, K16

Sampling and analysis of air samples is performed by certified in the relevant field laboratory. Sampling of atmospheric air is performed by certified laboratory specialist of public utility "Sanepidservis" as per requirements of RD 52.04.186-89.

While sampling the atmospheric air, there are considered basic meteorological factors that determine waftage and dispersion of pollutants in the air. Sampling of air is accompanied by the observation of the emissions main sources and meteorological parameters, which include the following: wind speed and direction, air temperature and humidity, atmospheric phenomena, weather and underlying surface conditions, cloudage.

Control of noise level

Control is performed using by the workers of personal hearing protection equipment.

Control of noise level during the performance of construction work in the places near residential buildings - once a quarter, in the industrial zone - once in half year.

During the operation of boiler houses, which were reconstructed, there is carried out selective monitoring of noise level 1 time per year in the boiler house control room.

Measurements of the levels of harmful physical impacts (noise) are carried out by specialists of accredited health laboratory at the occupational safety and health service of Public Utility "Kharkivski teplovi merezhi" and are carried out with the help of measuring instruments, which have certificates of state checking.

Table 16 contains list of boiler houses, where noise level selective control will be conducted.

Table 16. List of boiler houses, where noise level selective control will be conducted

No.	Object, address	District name
1	Boiler house, 7 Hryshchenko Street	Nemysylianskyi
2	Boiler house, 82A Kulynychivska Street	Nemysylianskyi
3	Boiler house, 104 Krasnodarska Street	Moskovskiyi
4	Boiler house "Pivnichnyi-1", 9A Dzherelna Street	Moskovskiyi
5	Boiler house. 7A Konieva Street	Novobavarskyi
6	Boiler house, Velyka Panasivska (Kotlova) Street	Kholodnohirskiyi
7	Boiler house, 8 Slovianska Street	Kholodnohirskiyi
8	Boiler house, 19 Ternopil'ska Street	Osnovianskyi
9	Boiler house, 27A Dyspetcherska Street	Osnovianskyi
10	Boiler house, 20 Bukova (Zavodu Komsomolets) Street	Shevchenkivskiyi

11	Boiler house, 20A Bukova (Zavodu Komsomolets) Street	Shevchenkivskiyi
12	Boiler house “P’iatykhattyk», 1 Akademichna Street	Kyivskiyi
13	Boiler house, 106 Saperna Street	Kyivskiyi
14	Boiler house, “Airport”, 9 Nesterova Street	Slobidskyyi
15	Boiler house, 4 Artema Vedelia Street	Moskovskyyi
16	Boiler house, 1 Akademika Proskury Stree	Kyivskiyi

Control of soils

Visual inspection of the surface layer of soil for oil/fuel spills in the areas of construction/dismantling.

Control of waste management

Particular attention is paid to the temporary waste disposal locations, management of waste generated at the construction sites of the object and documentation for removal and disposal of waste, namely:

- checking installation of containers for separate waste collection on impermeable foundations;
- checking installation of containers for the collection of solid waste on impermeable foundations;
- control of all possible kinds of industrial waste and solid domestic waste removal;
- control of lack of littering the territory with production and consumption waste.

Control is performed visually during construction – constantly, during operation - 1 time every quarter.

Control of compliance with fire safety requirements

There is conducted visual inspection of working places and check of compliance with fire safety requirements of Ukraine.

Control over the implementation of remediation

There is conducted visual inspection of the territory for soil restoration, landings herbs, trees upon completion under the PROJECT plan of works.

Control over management of vehicles

Traffic control at construction sites is conducted according to the plans of organization of vehicles and machinery traffic. Also there is performed monitoring the installation of speed limit signs, documentation checking.

Control of compliance with safety regulations

Particular attention is paid to safety at work, personal protective equipment, handling of toxic materials and their waste, documentation checking.

9. THE INSTITUTIONAL CAPACITY

With the purpose of the PROJECT implementation at public utility “Kharkivski Teplovi Merezhi” by order No.19 dated January 19, 2015 Service of management of the efficiency improvement project was created, performing RPIU functions, according to the Operating manual, and responsible for daily management and its implementation at local level and coordinates its activity with CPMU.

RPIU includes the specialists as follows:

- RPIU manager;
- financial management specialist;
- accounting specialist;
- procurement specialist;
- technical specialist (engineer);
- specialist on the environment protection (ecologist).

The special composition and the main obligation of RPIU members are given in the Annex 14.

The ecologist’s obligations include as follows:

- determination and analysis of the potential impacts from the works within the volume of the appropriate part of the PROJECT;
- provision of availability of the necessary documentation (reports from EIA (OVNS), EPSMP and others) for the works to be performed; within the volume of the appropriate part of the PROJECT;
- provision of considering all the necessary measures of attenuation and supervision in the financial plans of the public utility “Kharkivski Teplovi Merezhi”;
- coordination with contractors full list of mandatory environmental and social requirements that must be met before beginning work;
- verification of compliance by contractors within the relevant part of the PROJECT utilities environmental and social requirements and identify gaps not covered by the arrangements for the protection of the environment and/or budget;
- checking (if changes are needed) environmental provisions that will be included in the contracts with contractors;
- ensuring the implementation of the oversight plan for each of the contracts within the relevant part of the PROJECT utilities, including the establishment of baselines and the effectiveness of mitigation measures;
- preparation of environmental and social reports according to the forms established by the World Bank and CPMU.

According to the environmental situation throughout the Project they will conduct monitoring of the state control bodies in the field of ecology and sanitary and hygienic safety at all stages of the PROJECT. The list of public control bodies in the field of ecology is shown in Table 17.

Table 17. State control bodies in the field of environment and sanitary-hygienic safety.

State body control name	Sphere of activities	Supervision frequency
Department of environment and natural resources of Kharkiv regional state administration	Granting permission for emissions into the atmosphere, special water use, wastewater discharge	-
City Department of Chief Directorate of State sanitary-epidemiological service in Kharkiv region	Granting permission for production of solid waste (including fuel ash)	-
State environmental inspectorate in Kharkiv region, City Department of Chief Directorate of	Waste management	Annually

State sanitary-epidemiological service in Kharkiv region		
State environmental inspectorate	Emissions into the atmosphere	Annually

State sanitary-epidemiological services within the bounds of the appropriate administrative territories are responsible for the measures as follows:

- development (review), expertise, approval and promulgation of sanitary norms;
- carrying out of hygienic rating and state registration of the factors, harmful to human health and life;
- performance of sanitary and epidemiological expertise;
- approval of the projects, documents for assignment of land to locate and construct of the water supply points and purify sewage waters, placement of the industrial and production facilities;
- approval of the project and technical documentation for construction, reconstruction, commissioning of the new industrial objects and renovating of the current ones and sanitary protection zones;
- inspection of the construction sites and submission of conclusions as to their responsibility to the sanitary norms when putting into operation;
- issuing of permits for special water use.

Territorial bodies of the State environmental inspection according to the tasks assigned to them shall do as follows:

- generalize practice of legislation application regarding the matters, relating to their competency, prepare and offer proposals to the State environmental inspectorate of Ukraine as to its improvement in accordance with the established procedure;
- carry out state supervision (control) over compliance with the requirements of the environmental legislation of Ukraine by the territorial bodies of the central authorities of the executive power, local authorities of the executive power, enterprises, institutions and organizations independently of the form of ownership and economy, citizens of Ukraine, foreigners and non-residents, as well as legal entities – nonresidents.
- draw up the minutes as to administrative violations of law and consider the cases of administrative violations, impose administrative fines in cases, provided by the law.
- submit to the Chairman of State environmental inspectorate of Ukraine the offers as to: issue, suspension of action or cancelling in accordance with the law the permits, limits, quotas for special use of the natural resources, emissions and dropping away of the pollutants into the natural environment, location of waste, handling with dangerous chemical substances, trans-border movement of the flora and fauna objects, including water living resources, as well as establishment of the norms of the allowable levels of harmful effect on the state of the natural environment.
- assign the public inspectors of environment protection and issue them certificates, arrange their work, give them guidance and practical assistance, make measures as to eliminating of shortages and violations revealed in their activities.

Control over following EPSMP recommendations from the side of the public utility “Kharkivski Teplovi Merezhi” at stage of construction and operation is imposed on the ecologist with RPIU with the involvement of experts group of environmental production and technical service of public utility “Kharkivski Teplovi Merezhi”.

At stage of construction the contractor organization shall assign the person in charge for observing of EPSMP requirements and performing instructions of safety rules for the workers employed in construction.

Responsibility for preparation of the public utility personnel and holding qualification upgrading courses is imposed on the service of labor protection, safety rules and personnel training.

Laboratory control of noise levels at working places is imposed on the laboratory of labor hygiene at service of labor protection of the public utility “Kharkivski Teplovi Merezhi”.

The public utility enterprise “Sanepidemservice” will make control of the atmospheric ground layer.

Laboratory of chemical workshop of CHP-3 branch has accreditation for NO₂ determination in the atmospheric ground layer.

List of the other organizations which will be involved to perform the specific works is given in Annex 15.

10. PARTICIPATION OF COMMUNITY, INFORMATION DISCLOSURE AND CONSULTATION

According to the requirements of the World Bank, as well as the requirements of the Ukrainian legal system, when performing environmental evaluation of the investment projects it is required to conduct consultations with the groups of the persons, who are subjected to this Project, and with other interested parties on the matters of the environmental and social influence from the project and take their opinion into consideration.

The purpose of conducting consultations with public is presentation of the planned PROJECT, results of the work with ESIA(OVNS), discussion of the positive and negative impacts, connected with the Project implementation, ESMP representation.

The main tasks of conducting consultations with public are as follows:

- openness of the environmental and social documentation (EIA (OVNS), ESMP report);
- discussion of the different questions and problems with the groups, who come under this Project, introduction of public with potential negative impacts and problems, that can occur during implementation process of the investment projects;
- providing of the feedback between competent authorities and local groups that fall under the impact of the project, in the process of ESIA implementation and in determining the potential positive and negative impacts and the proposed measures to minimize such impact.

The main participants of consultations with public are as follows:

- credit recipients (municipal public utilities);
- local community;
- non-governmental organizations (NGO);
- major scientific research organizations and carrying out impact assessments on the environment and social sphere;
- local state administration;
- public authorities (bodies of environmental protection and sanitary-epidemiological service).

Within the framework of preparation of the design documentation, the Public Utility “Kharkivski teplovi merezhi” conducted a public hearing on the question of construction of the cogeneration plant heat output 4 288 kW and an electric capacity of 4 000 kW for boiler house at 4, Artema Vedelia str. dated December 22, 2010. According to the requirements of the current normative documents:

- EIA was developed, front sheet is given in Annex 16;
- statement of intention of the project activities was developed and approved in the Department of the housing maintenance and utilities and power board of Kharkiv municipal council (Annex 27)
- appropriate statement of consequences of intents and environmental consequences from the project activities was published in the local newspaper (Annex 17);
- public meeting was conducted; copy of minutes of public meeting is given in Annex 18.

Within the framework of preparation for the PROJECT implementation, public utility “Kharkivski Teplovi Merezhi” conducted public meeting regarding the Program of the environmental and social evaluation of the Project on January 09, 2014, composed of the reports of the specialists of the enterprise, comments and answers to the questions of the public. As a result the Program of the ecological and social evaluation of the Project, as well as Frame plan of the environmental management at stages of construction and operation and Monitoring Plan were approved. Photos of the public meeting are given in Annex 19.

Copies of the minutes of public meeting, list of participants and application in the local newspaper are given in Annexes 20, 21 and 22 accordingly.

During performance of public meeting the public utility “Kharkivski Teplovi Merezhi” submitted both post and electronic address to send any comments and proposals.

Information as to performance of the public meeting and the results are disclosed at web sites of the enterprise and Kharkiv municipal council.

Nontechnical summary of the Project for the public is given in Annex 24.

There will be public disclosure of this ESMP and public consultation with the community and other relevant stakeholders before during and after the project activities. Grievance Redress Mechanism accessible for the project affected people will be established by the Utility.

11. THE GRIEVANCE REDRESS MECHANISM

In the course of performing work on the PROJECT there may be questions related to its impact on the social sphere and the environment.

The company has developed and implemented the program of communication with the public, to ensure continuous public awareness of key environmental and social aspects throughout the future PROJECT implementation (including the stages of construction and operation).

At Public Utility “Kharkivski teplovi merezhi” they created the service on the work with applications of citizens, which is responsible for timely review and replies to applications of citizens according to the Law of Ukraine “Of applications of citizens”. During the PROJECT implementation all applications from citizens including anonymous will be accepted, registered and sent for the appropriate work in the established terms.

The citizens can send their comments by electronic mail as well to address hte@vl.kharkov.ua, or leave message at web site of the enterprise <http://www.hts.kharkov.ua>.

At the enterprise there is information and reference service, on calling where by numbers 758-56-01, 758-56-02, 758-56-51, 758-56-96, citizens can provide their comments, applications or notices.

To receive on-line information regarding the matters of providing with heat supply and hot water supply you can call the dispatcher service of the enterprise by phone 738-21-09.

Besides, in the city the Municipal information and dispatching service is operating, which provides submit applications for repair, oral applications of citizens and giving reference information, where you can call by phone 15-62.

Project stakeholders will be able to submit questions, complaints and compliments/suggestions through the GRM. The GRM will focus not only on receiving and recording feedback, questions and complaints but also on how complaints are responded to, and resolved. GRM focal point should be appointed by the Head of Utility and be responsible for handling GRM log. GRM log needs to be submitted to CPMU on monthly basis. All incoming requests are subject to registration in electronic form on the registration-control cards. Automated registration of the appeal recorded the following data: date of receipt of request; the surname, first name, middle name, category (social status) of the applicant; where the application date, the index and control; the issues raised—a summary of the indices; the contents and date of resolution, name of the author, performer, date of performance; the date of sending, the index and the contents of the document, decision taken, date of removal from control; the case number on the item. The letter registration and the control card of incoming appeals is given in Annex 23.

Each appeal including anonymous is considered mandatory and a response is sent back.

If you left the appeal is not related to a running PROJECT, it is routed to the unit that solves this problem and this was reported to the requester.

In case the request is sent to the e-mail response to the address sent by email to the address from which you received treatment or, if indicated in the address of the postal address by regular mail.

The General deadline for response to the complaint does not exceed 1 month from the date of receipt of the complaint. The public utility keeps records and registers all appeals and complaints regarding the Project from the population and local authorities (grievance log of Public Utility "KhTM" for UDHEEP). The appeal procedure will, if necessary, to change the course of the PROJECT.

Construction contractor as well shall implement the procedure of the “Prompt response” with the purpose of maximum efficient and immediate response to urgent complaints of interested persons on the worksite.

If no understanding has been reached, or if the person who is experiencing the negative impact will not receive a response, then that person may contact to CPMU, in which the specialist is

assigned, who will register complaints and claims and try to solve them at local level, regarding which the World Bank representation will be informed.

At meeting with public the people, who have negative impact, will receive contact information for communication with this specialist. If the person, who has negative impact of the project, will be unsatisfied by the decision received, he can apply to the court of competent jurisdiction as a final instance.

The public utility “Kharkivski Teplovi Merezhi” can consider the questions of creating commission on the questions of solving of conflict situations (at participation of the enterprise representatives, city council representatives and other authorities) to solve complicated questions raised in the complaints.

The purpose of the appeal procedure and commission on questions of solving of conflict situations is prompt and efficient response to the problems of the interested parties and local population accordingly, thus avoiding the escalation of problems to the level of administrative and judicial bodies.

Національна комісія, що здійснює державне регулювання у сферах енергетики та комунальних послуг

офіційний веб-сайт

[\[повернутись\]](#)

Дата розміщення на сайті: 31.03.2017

ОБҐРУНТУВАННЯ ПРИЙНЯТТЯ ПОСТАНОВИ

НАЦІОНАЛЬНА КОМІСІЯ, ЩО ЗДІЙСНЮЄ ДЕРЖАВНЕ РЕГУЛЮВАННЯ
У СФЕРАХ ЕНЕРГЕТИКИ ТА КОМУНАЛЬНИХ ПОСЛУГ

ПОСТАНОВА

30.03.2017 № 446

Про переоформлення ліцензій на виробництво теплової енергії (крім діяльності з виробництва теплової енергії на теплоелектроцентралях, теплоелектростанціях, атомних електростанціях і когенераційних установках та установках з використанням нетрадиційних або поновлюваних джерел енергії), транспортування теплової енергії магістральними та місцевими (розподільчими) тепловими мережами та постачання теплової енергії, виданих КП «ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ»

Відповідно до статті 21 Закону України «Про ліцензування видів господарської діяльності» та статей 2 та 17 Закону України «Про Національну комісію, що здійснює державне регулювання у сферах енергетики та комунальних послуг» Національна комісія, що здійснює державне регулювання у сферах енергетики та комунальних послуг, **ПОСТАНОВЛЯЄ:**

1. Переоформити ліцензії АВ № 597472 на право провадження господарської діяльності з виробництва теплової енергії (крім діяльності з виробництва теплової енергії на теплоелектроцентралях, теплоелектростанціях, атомних електростанціях і когенераційних установках та установках з використанням нетрадиційних або поновлюваних джерел енергії), АВ № 597473 на право провадження господарської діяльності з транспортування теплової енергії магістральними та місцевими (розподільчими) тепловими мережами, АВ № 597474 на право провадження господарської діяльності з постачання теплової енергії, видані КОМУНАЛЬНОМУ ПІДПРИЄМСТВУ «ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ» (код ЄДРПОУ 31557119, м. Харків, вул. Мефодіївська, буд. 11), на безстрокові.

2. Ліцензії АВ № 597472, АВ № 597473, АВ № 597474 визнати недійсними.

Голова НКРЕКП Д.Вовк

[\[повернутись\]](#)

Annex 2. License for production of heat energy at CHP and the units with using of the alternative or renewable power sources.



Серія АГ № 500402

ЛІЦЕНЗІЯ

**НАЦІОНАЛЬНА КОМІСІЯ РЕГУЛЮВАННЯ
ЕЛЕКТРОЕНЕРГЕТИКИ УКРАЇНИ (НКРЕ)**

(міністерство енергетики України, що веде ліцензію)

**виробництво теплової енергії на теплоселектроцентралях та установках з
використанням нетрадиційних або поновлюваних джерел енергії**

(для господарської діяльності (у тому ж числі або окремо), на право провадження якого виставляється ліцензія)

**КОМУНАЛЬНЕ ПІДПРИЄМСТВО
"ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"**

(для виконання юридичної особи, або громадянина, і/або фізичної особи - суб'єкта підприємницької діяльності)

Ідентифікаційний код юридичної особи
або ідентифікаційний номер фізичної
особи-платника податків та інших
обов'язкових платежів 31557119

Місцезнаходження юридичної особи
або місце проживання фізичної особи-
суб'єкта підприємницької діяльності м. Харків, вул. Доброхотова, буд. 11

Дата прийняття та номер рішення про видачу
ліцензії 03.03.2011 № 314

Строк дії ліцензії з 03.03.2011 по 02.03.2021

Голова Комісії С. Тітенко

(особа, яка підписала документ) (підпис)

Дата видачі ліцензії 15.03.2011



Серія АГ № 500278

ЛІЦЕНЗІЯ

**НАЦІОНАЛЬНА КОМІСІЯ РЕГУЛЮВАННЯ
ЕЛЕКТРОЕНЕРГЕТИКИ УКРАЇНИ (НКРЕ)**

(Національний орган регулювання енергетики України)

виробництво електричної енергії

(для господарської діяльності (в зоні монополії або часткової), на право виконання якого виставляється ліцензія)

**КОМУНАЛЬНЕ ПІДПРИЄМСТВО
"ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"**

(найбільшаква фізичної особи, або правник, або, за відсутності фізичної особи - суб'єкт підприємства (ліцензіат))

Ідентифікаційний код юридичної особи
або ідентифікаційний номер фізичної
особи-платника податків та інших
обов'язкових платежів 31557119

Місцезнаходження юридичної особи
або місце проживання фізичної особи-
суб'єкта підприємницької діяльності м. Харків, вул. Доброхотова, буд. 11

Дата прийняття та номер рішення про видачу
ліцензії 03.03.2011 № 314

Строк дії ліцензії з **03.03.2011** по **02.03.2021**


Голова Комісії С. Тітенко

(посада особи, яка підписала ліцензію) (підписи та печатки)

Дата видачі ліцензії: 15.03.2011

М.П.  

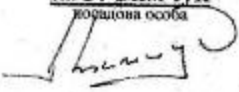
012 - 015022
654




ХАРКІВСЬКА ОБЛАСНА ДЕРЖАВНА АДМІНІСТРАЦІЯ
ДЕПАРТАМЕНТ ЕКОЛОГІЇ ТА ПРИРОДНИХ РЕСУРСІВ

м-н Свободи, 5 Держстром 4 під., 7 пов., м. Харків, 61022, тел./факс: (057) 705-06-83
E-mail: ecodepart@kharkivoda.gov.ua

ДОЗВІЛ
на спеціальне водокористування

Директор Департаменту
А.О. ТИМЧУК
кваліфікована особа




" 13 " 05 20 16 р. Укр.№ 04.01-10-872 А/Хар.

Строк дії дозволу продовжено до " _____ " _____ 20 ____ р.

М.П.

" _____ " _____ 20 ____ р. _____
Підпис посадової особи

Дозвіл на спеціальне водокористування

Комунальне підприємство «Харківські теплові мережі»

м. Харків

Видано 13 травня 2016 р. Укр. № 04.01-10-872 А/Хар.

на строк до 14 травня 2019 р.

2. Матеріали надані для розгляду (клопотання, проектні матеріали): Клопотання з обґрунтуванням потреби у воді, висновок щодо можливості видачі дозволу на спеціальне водокористування

Державного агентства водних ресурсів України від 29.04.2016 № 2914/ХР/30-16, нормативи ГДС

3. Реквізити водокористувача: Ідентифікаційний код 31557119

а) підприємство, організація, господарство:

Комунальне підприємство «Харківські теплові мережі»

б) головне управління, об'єднання

в) міністерство, відомство

г) поштова адреса і телефон водокористувача або проектної організації, що клопочеться про видачу дозволу на спеціальне водокористування 61037, м. Харків, вул. Мефодіївська, 11

4. Назви і код водного об'єкта та водогосподарської ділянки (джерела водопостачання і приймача стічних вод):

Від інших підприємств: 1. ПАТ «Харківський тракторний завод ім. Орджонікідзе»

60/630012//АЗО/ДОН/0218/0815/0055/0011/0004/, ПД, 9 км,

2. КП «Харківводоканал», 20/631333//АЗО/ДОН/0218/0815/0055/, ПК, 829 км

поверхнева вода: річка Лопань, притока р. Уди, басейн р. Сіверський Донець,

20//АЗО/ДОН/0218/0815/0055/, ТН, 6 км, загальнодержавного значення,

код водокористувача – 631513, код водогосподарської ділянки – 31060300 р. Уди,

приймач стічних вод: стічні води надходять до мережі

міської каналізації, 95/СТО/630374/; скид виробничих зворотних вод періодично здійснюється

в балку Глибокий Яр (озеро Зеленка) 30/АЗО/ДОН/0218/0815/0055/, СС, 4 км

5. Характеристика водокористування:

а) мета водокористування (водопостачання та його вид, скид стічних вод, зрошення, гідроенергетика та

інше: водопостачання на господарсько-питні та виробничі потреби; гаряче водопостачання населення, скид стічних вод в балку Глибокий Яр (озеро Зеленка)

б) основні показники діяльності об'єкта-водокористувача або об'єкта, що проектується (виробнича потужність, площа зрошення, чисельність населення та інше):

філія ТЕЦ-3 виробництво та постачання 1678 тис. Гкал теплоенергії і 161,59 тис. Мват

електроенергії на рік, інші джерела тепла – виробництво, транспортування і розподіл

4440 тис. Гкал теплоенергії на рік; працюючих – 409+5750 чол., робочі дні – 365

в) назва і місцезнаходження водозабірних, підірних споруд, випусків стічних вод (для підземних вододжерел вказується глибина і потужність свердловин):

забір технічної води з р. Лопань,

випуск виробничих стічних вод в балку Глибокий Яр (озеро Зеленка)

г) способи очистки стічних вод, склад і потужність очисних споруд (м³/добу, тис. м³/рік):

шламовідстійник місткістю 430 тис. м³

д) наявність і характеристика обладнання для обліку використання і їх лабораторного аналізу:

облік забору питної води здійснюється приладами УВР 011А1.1/ВС, технічної води – УВР-011А2-К

контроль за якістю зворотних вод здійснює хімічна лабораторія ТЕЦ-3

6. Водокористування дозволяється при дотриманні наступних умов:

а) забір свіжої води (тис. м³/рік, м³/добу, м³/с):

- із поверхневих водойм не більше 3226,725 тис. м³/рік; 8840,343 м³/добу

- підземних вод не більше

б) об'єми і категорія отриманої води від інших підприємств не більше (тис. м³/рік, м³/добу):

забір води з водопроводу міста, від інших підприємств – 31641,489 тис. м³/рік; 86689,01 м³/добу

в) сезонне водоспоживання і водовідведення (тис.м³/рік): -

г) можливе водоспоживання у маловодні роки: -

д) використання води у системах оборотного водопостачання, повторно-послідовне використання води

(тис.м³/рік, м³/добу): у системах оборотного водопостачання – 52460,8 тис. м³/рік; 143728,0 м³/добу

у системах повторного(послідовного) водопостачання – 23,247 тис. м³/рік; 63,7 м³/добу

е) об'єми і категорія переданої води іншим підприємствам і організаціям, відводиться на ЗПЗ,

накопичувачі та інше (тис.м³/рік, м³/добу): поверхнева технічна вода передається іншим

підприємствам та організаціям – 240,1 тис. м³/рік; 657,808 м³/добу;

гаряча вода передається споживачам – 25987,353 тис. м³/рік; 71198,227 м³/добу;

стічні води надходять до мережі міської каналізації – 888,766 тис. м³/рік; 2434,975 м³/добу

ж) кількість стічних вод, що скидаються до водного об'єкта за кожним випуском окремо, не більше

(тис.м³/рік, м³/добу): виробничі нормативно чисті стічні води: 528,135 тис м³/рік;

1446,945 м³/добу; 310,0 м³/год балка Глибокий Яр (озеро Зеленка), комунально-побутова кат.

з) якісна характеристика стічних вод на випусках (мг/л):

назва забруднюючих речовин	кількість в мг/л	назва забруднюючих речовин	кількість в мг/л
Завислі речовини	31,8	Нітрити	0,8
БСК ₅	2,2	Нітрати	8,0
ХСК	7,9	Фосфати	3,1
Мінералізація	1000	Нафтопродукти	0,3
Хлориди	150	Залізо	0,38
Сульфати	250	Мідь	0,235
Азот амонійний	0,8		

и) гранично допустимий скля (ГДС) речовин з стічними водами в водній об'єкт (т/год, т/рік):

назва забруднюючих речовин	кількість в т/годину	кількість в т/рік
Завислі речовини	9858	16,795
БПК ₅	682	1,162
ХСК	2449	4,172
Мінералізація	310000	528,135
Хлориди	46500	79,22
Сульфати	77500	132,034
Азот амонійний	248	0,422
Нітрити	248	0,422
Нітрати	2480	4,225
Фосфати	961	1,637
Нафтопродукти	93	0,158
Залізо	117,8	0,201
Мідь	72,85	0,124

к) вимоги до витратно-виміральної апаратури: -

л) режим експлуатації водосховищ: -

м) умови мольового сплаву лісу і сплаву деревини в пучках і кошелях без судової тяги: -

н) інші умови водокористування:

1. Ліміт забору поверхневих вод – 3226,725 тис. м³/рік; 8840,343 м³/добу,

забір води з водопроводу міста, від інших підприємств – 31641,489 тис. м³/рік; 86689,01 м³/добу.

2. Ліміт використання поверхневих вод – 3226,725 тис. м³/рік; 8840,343 м³/добу,

забір води з водопроводу міста, від інших підприємств – 31641,489 тис. м³/рік; 86689,01 м³/добу.

3. Облік водоспоживання, водовідведення та якості стічних вод вести в журналах за формами ПОД-11, ПОД-12 і ПОД-13.

4. Умови вказані у висновку Державного агентства водних ресурсів України від 29.04.2016 № 2914/ХР/30-16 (додається).

5. Не допускати забруднення підземних і поверхневих вод.

Теперішній дозвіл складено в _____ 2-х _____ примірниках.

Погоджено:

1. З органами державного санітарного нагляду на строк _____
" ____ " _____ 200__ р. № _____
_____ організація, посадова особа

2. З органами рибохорони на строк _____
" ____ " _____ 200__ р. № _____
_____ організація, посадова особа

3. З органами геології на строк: _____
" ____ " _____ 20__ р. № _____
_____ організація, посадова особа

4. З органами державного гірничого нагляду на строк _____
" ____ " _____ 200__ р. № _____
_____ організація, посадова особа

5. З органами державного ветеринарного нагляду на строк _____
" ____ " _____ 200__ р. № _____
_____ організація, посадова особа

6. З первинними водокористувачами (при видачі дозволів на використання водних об'єктів,
наданих у відосблене користування) на строк _____
" ____ " _____ 200__ р. № _____
_____ організація, посадова особа

7. З власниками водопровідно-каналізаційних мереж на строк (при підключенні до вказаних
мереж) _____
" ____ " _____ 200__ р. № _____
_____ організація, посадова особа

8. З органами із регулювання використання охорони вод на строк
Висновок Державного агентства водних ресурсів України
" 29 " 04 20 16 р. № 2914/XP/30-16
_____ організація, посадова особа

Annex 5. Waste disposal permit in 2014



Додаток 1*
до Порядку розроблення, затвердження і перегляду ліцензії на
укладання та розміщення відходів, затвердженої Постановою
Кабінету Міністрів України «Про затвердження Порядку
розроблення, затвердження і перегляду ліцензії на утворення та
розміщення відходів» від 3 серпня 1998 р. № 12/8 в редакції,
акцесорно згідно з Постановою КМУ № 1518 від 11.10.2012 та
№ 289 від 11.04.2012

ХАРКІВСЬКА ОБЛАСНА ДЕРЖАВНА АДМІНІСТРАЦІЯ
ДЕПАРТАМЕНТ ЕКОЛОГІЇ ТА ПРИРОДНИХ РЕСУРСІВ

м-н Свободи, 5 Держпром 4 під., 7 пов., м. Харків, 61022, тел/факс: (057) 705-06-83,
E-mail: ecodepart@ukr.net

Д О З В І Л № ХКомін.96 від 12.08 2013 р.

на розміщення відходів у 2014 році

Дійсний з 01 січня 2014р. до 31 грудня 2014р.

Назва підприємства Комунальне підприємство
«Харківські теплові мережі»

Код власника відходів 31557119 Код території 6310136900

Юридична адреса: 61037, м. Харків, Комінтернівський район,
вул. Доброхотова, 11

Банківські реквізити: р/р 26009010013856 у АТ «Банк Золоті ворота»,
МФО 351931

Телефон: 758-84-79 факс: 758-84-79

Директор Департаменту І.Капусник

Дозвіль одержав С.Андрєєв

Генеральний директор «Харківське комунальне підприємство «Харківські теплові мережі»

М.П. №31557118 " " 2013 р.






ХАРКІВСЬКА ОБЛАСНА ДЕРЖАВНА АДМІНІСТРАЦІЯ

ДЕПАРТАМЕНТ ЕКОЛОГІЇ ТА ПРИРОДНИХ РЕСУРСІВ

м-н Свободи, 5, Держпром, 4 під., 7 пов., м. Харків, 61022, тел./факс (057) 705-06-83
E-mail: ecodepart@ukr.net

ДОЗВІЛ № 6310138500 - 1379

на викиди забруднюючих речовин в атмосферне повітря стаціонарними джерелами

Видано: Комунальному підприємству «Харківські теплові мережі»
(повне найменування юридичної особи або ім'я, по батькові та прізвище фізичної особи-підприємця)

Місцезнаходження: 61037, м. Харків, вул. Доброхотова, 11
(місцезнаходження юридичної особи або місце проживання фізичної особи-підприємця)

Ідентифікаційний код юридичної особи або ідентифікаційний номер фізичної особи: 31557119

Орган, який видав дозвіл: Департамент екології та природних ресурсів Харківської обласної державної адміністрації (61022, м. Харків, м-н Свободи, 5, Держпром, 4 під., 7 поверх)

Термін дії дозволу: 10 років, з 17.09.2014 по 17.09.2024

Рішення установи державної санітарно-епідеміологічної служби
Головного управління Держсанепідслужби у Харківській області
(назва установи державної санітарно-епідеміологічної служби)

від 31.07.2014 № 5.0/5695

Дата видачі дозволу: 17.09.2014
(число, місяць, рік)

Директор Департаменту

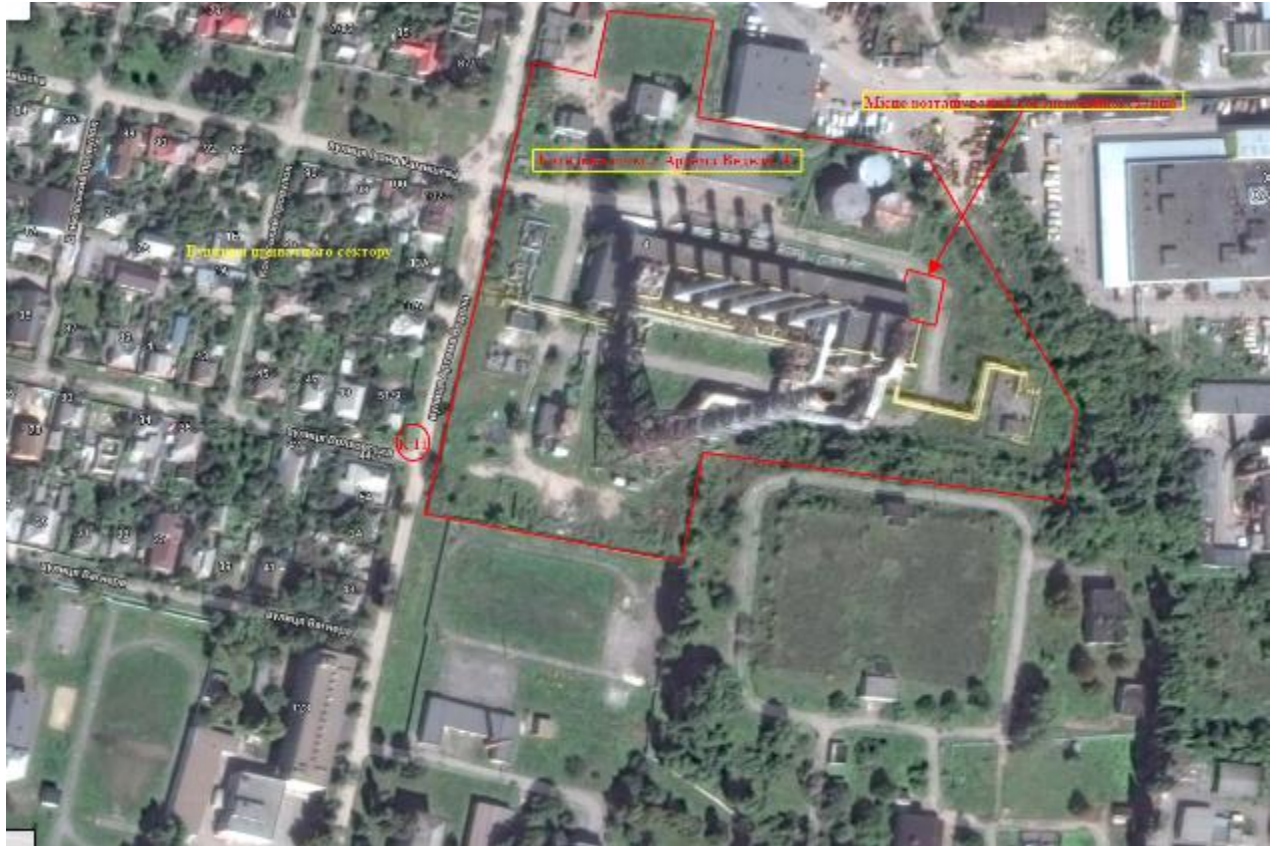


І.В. Капусник

Умови, які встановлюються в дозволі та дозволені обсяги викидів забруднюючих речовин в атмосферне повітря стаціонарними джерелами додаються.

Annex 7. Project site layout plans on the component
“Construction of cogeneration plants”.

Construction of cogeneration plant on the 4, Artema Vedelia str., Moskovskyyi dstr., Kharkiv



Picture 4.1.1.1

Construction of cogeneration plant on the 1, Akademika Proskury str., Kyivskiy dstr., Kharkiv



Picture 4.1.1.2

Annex 8. Project site layout plans on the component “Decommissioning of boiler houses, installation of individual heating stations and reconstruction of heating networks”

boiler houses No.1 and No.2 on the 77, Peremohy ave., Shevchenkiyskiy dstr., Kharkiv



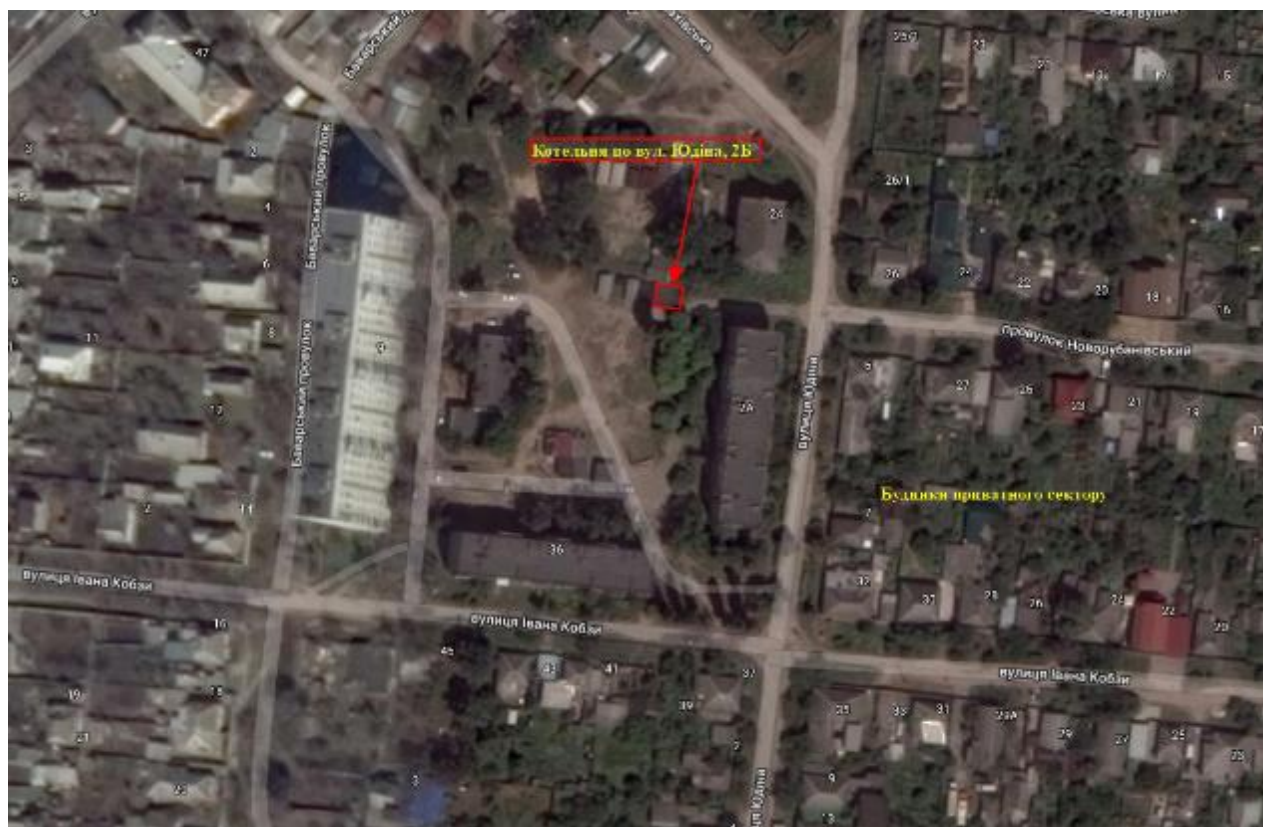
Picture 4.1.2.1.

boiler house on the 199/2, Gagarina avenue, Slobidskyi dstr., Kharkiv



Picture 4.1.2.3.

boiler house on the 2B, Yudina str., Novobovarskyi dstr., Kharkiv



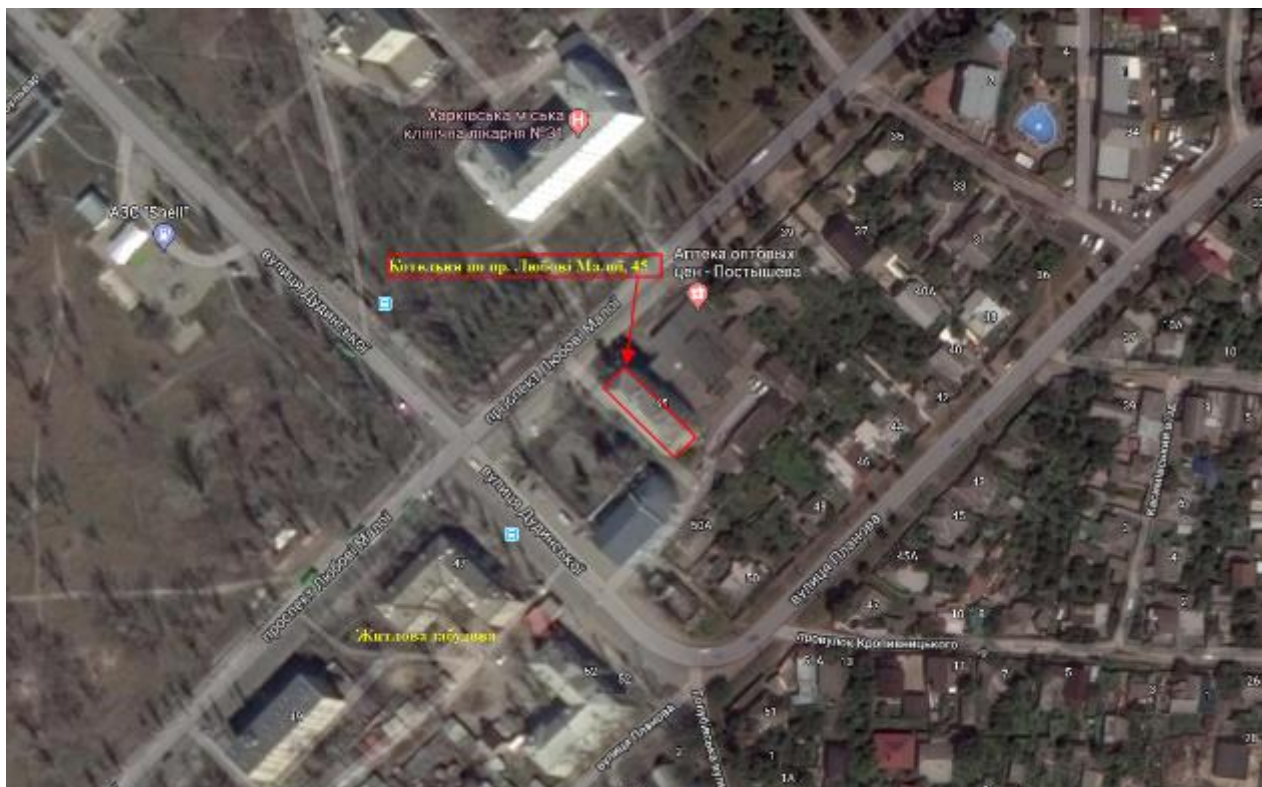
Picture 4.1.2.4.

boiler house on the 47A, Pushkarivska str., Novobovarskyi dstr., Kharkiv



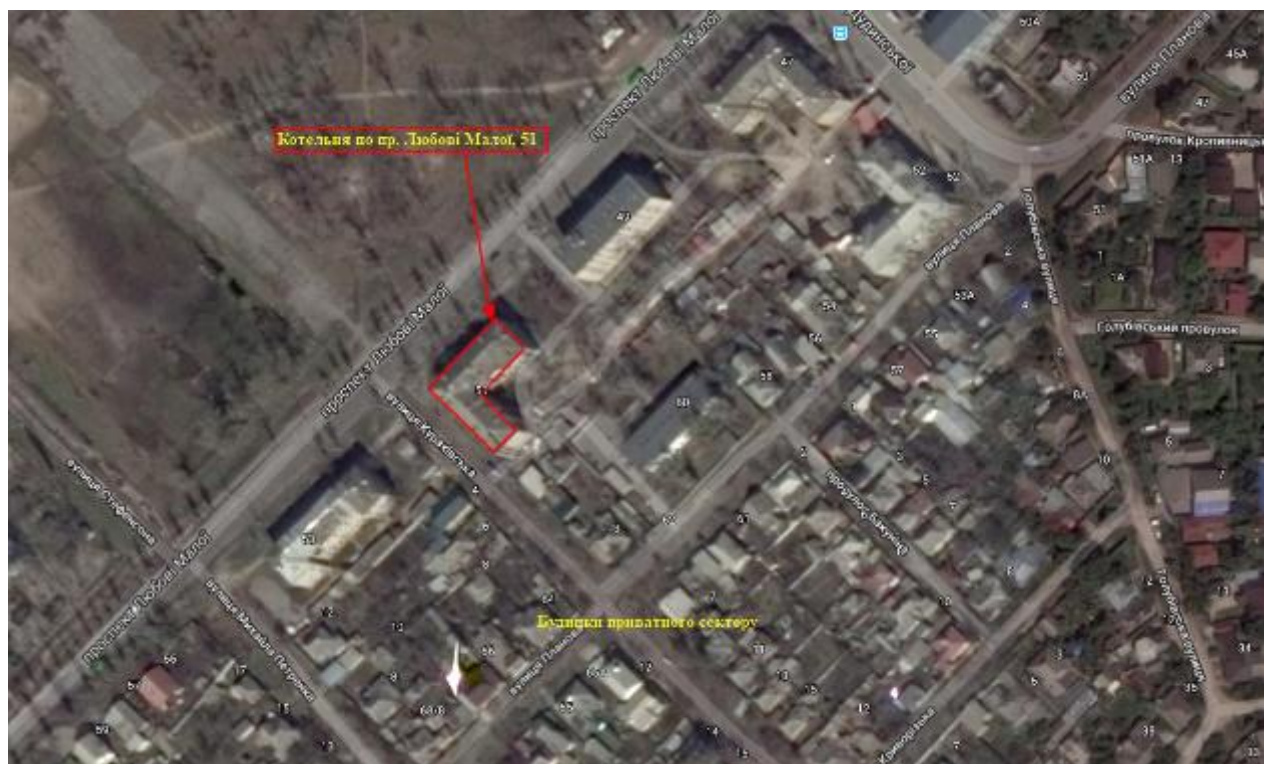
Picture 4.1.2.5.

boiler house on the 45, Liubovi Maloi ave., Novobovarskyi dstr., Kharkiv



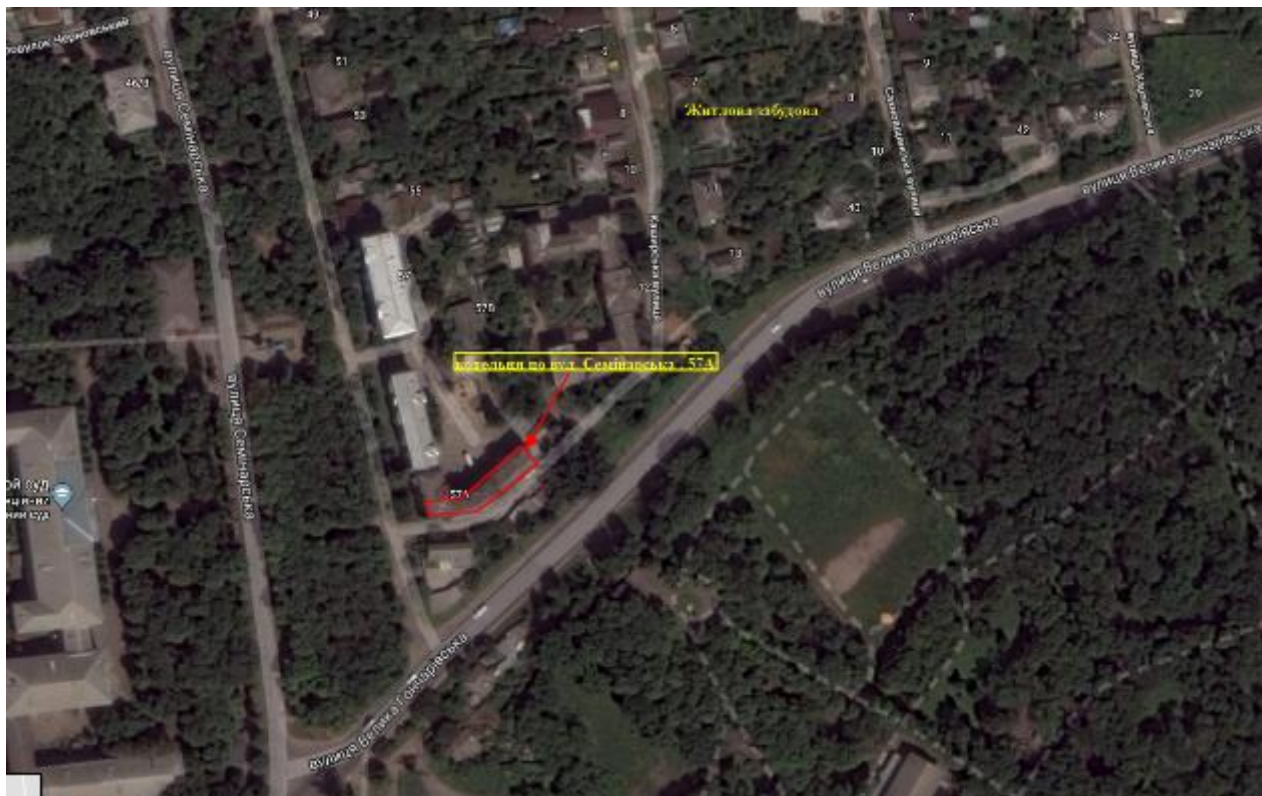
Picture 4.1.2.6.

boiler house on the 51, Liubovi Maloi ave., Novobovarskyi dstr., Kharkiv



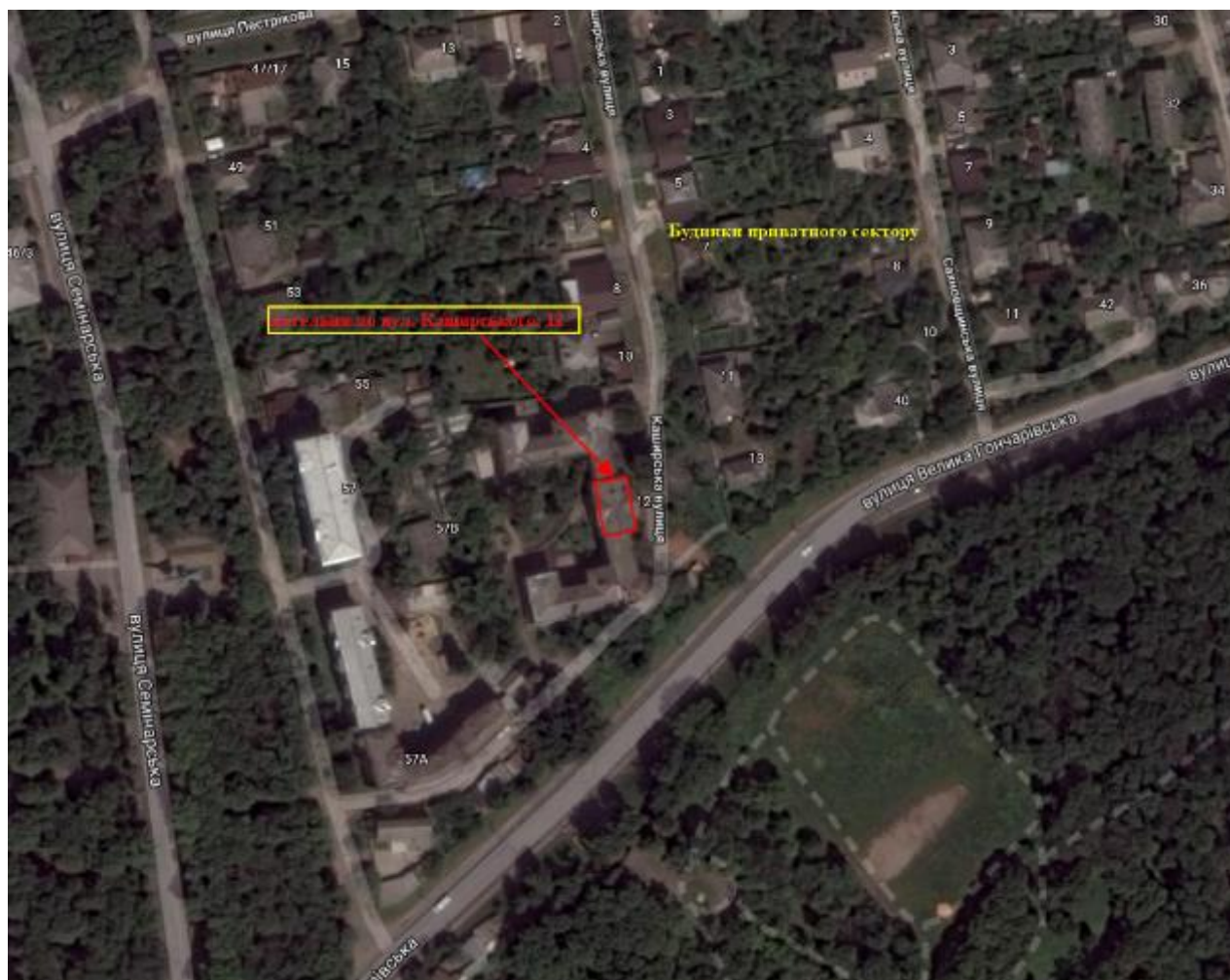
Picture 4.1.2.7.

boiler house on the 57A, Seminarska str., Novobavarskyi dstr., Kharkiv



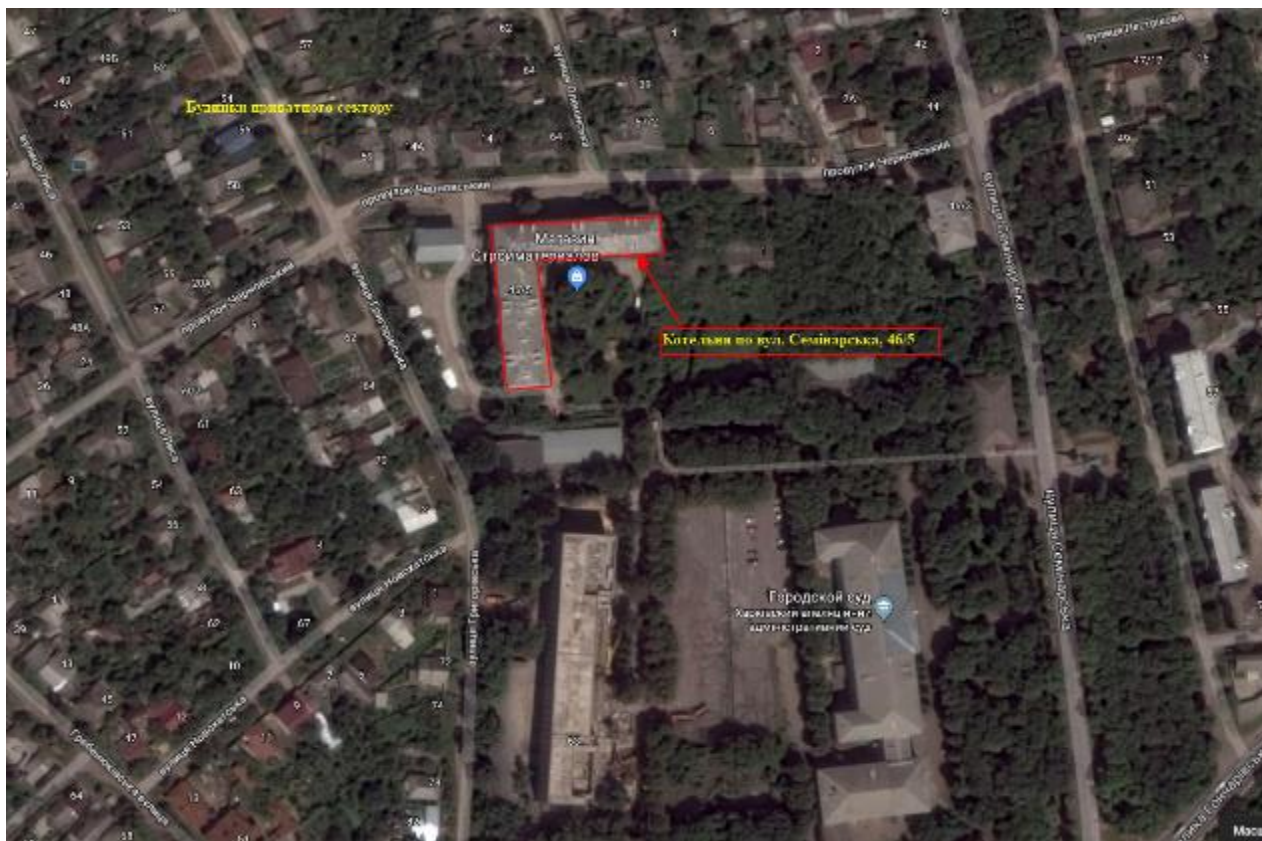
Picture 4.1.2.8.

boiler house on the 12, Kashirskoho str., Novobovarskyi dstr., Kharkiv



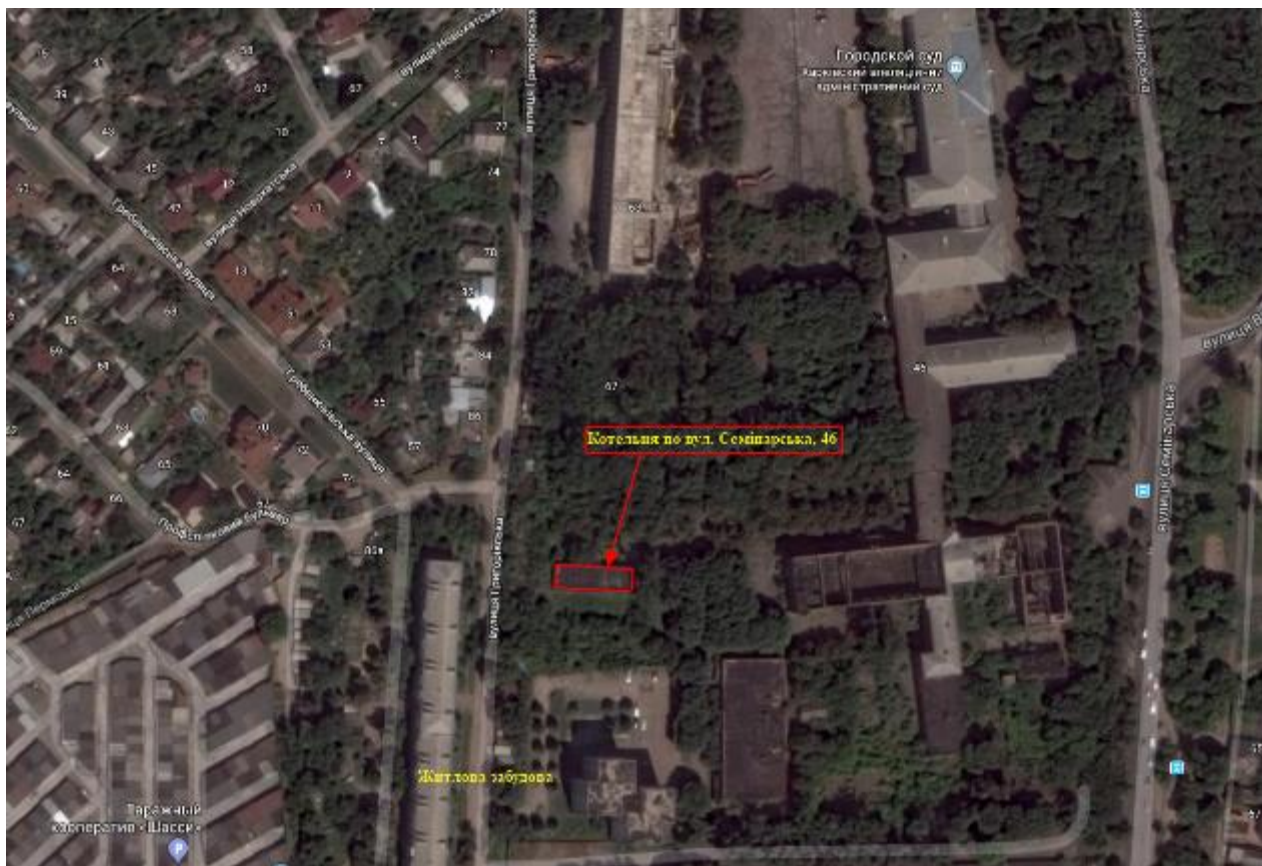
Picture 4.1.2.9.

boiler house on the 46/5, Seminarska str., Novobovarskyi dstr., Kharkiv



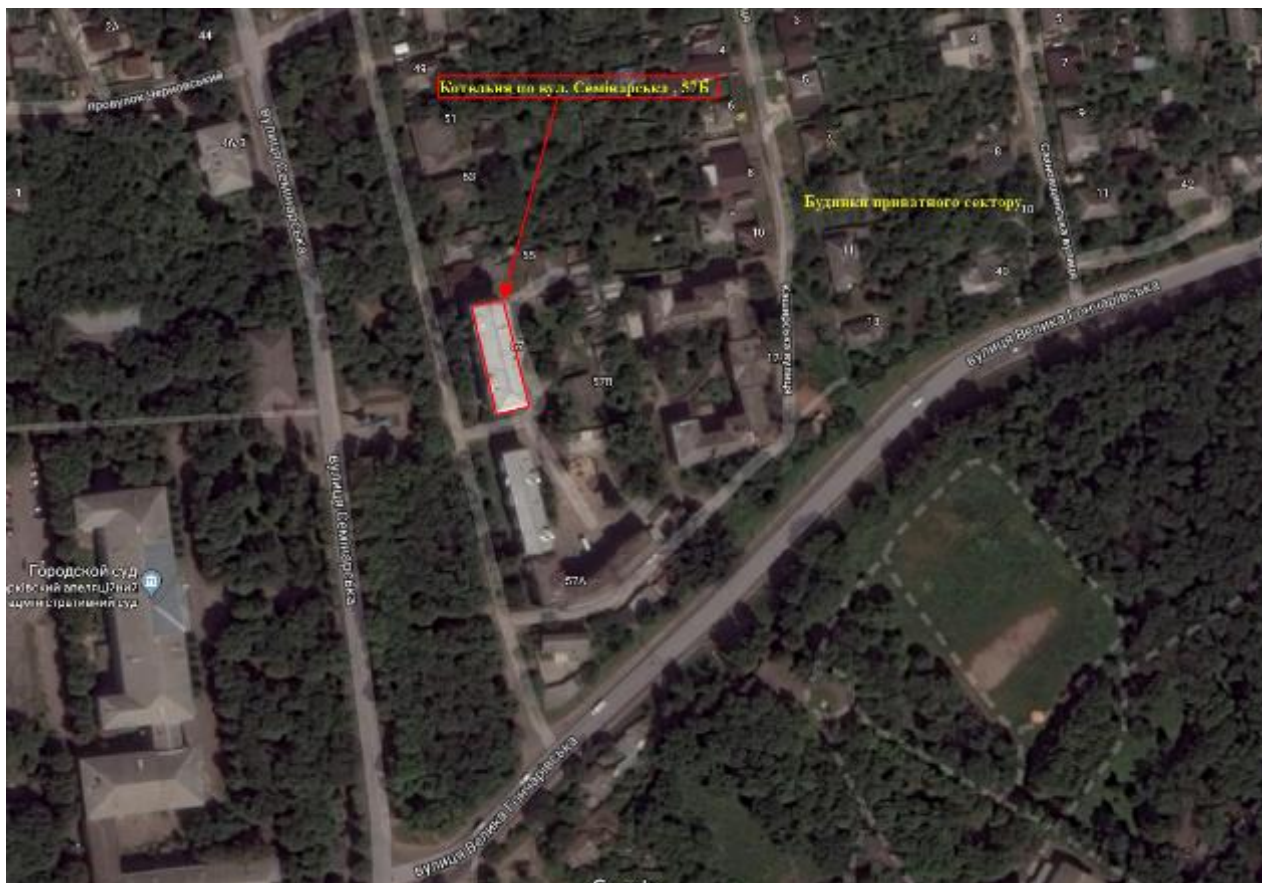
Picture 4.1.2.10.

boiler house on the 46, Seminarska str., Novobovarskyi dstr., Kharkiv



Picture 4.1.2.11.

boiler house on the 57B, Seminarska str., Novobovarskyi dstr., Kharkiv



Picture 4.1.2.12

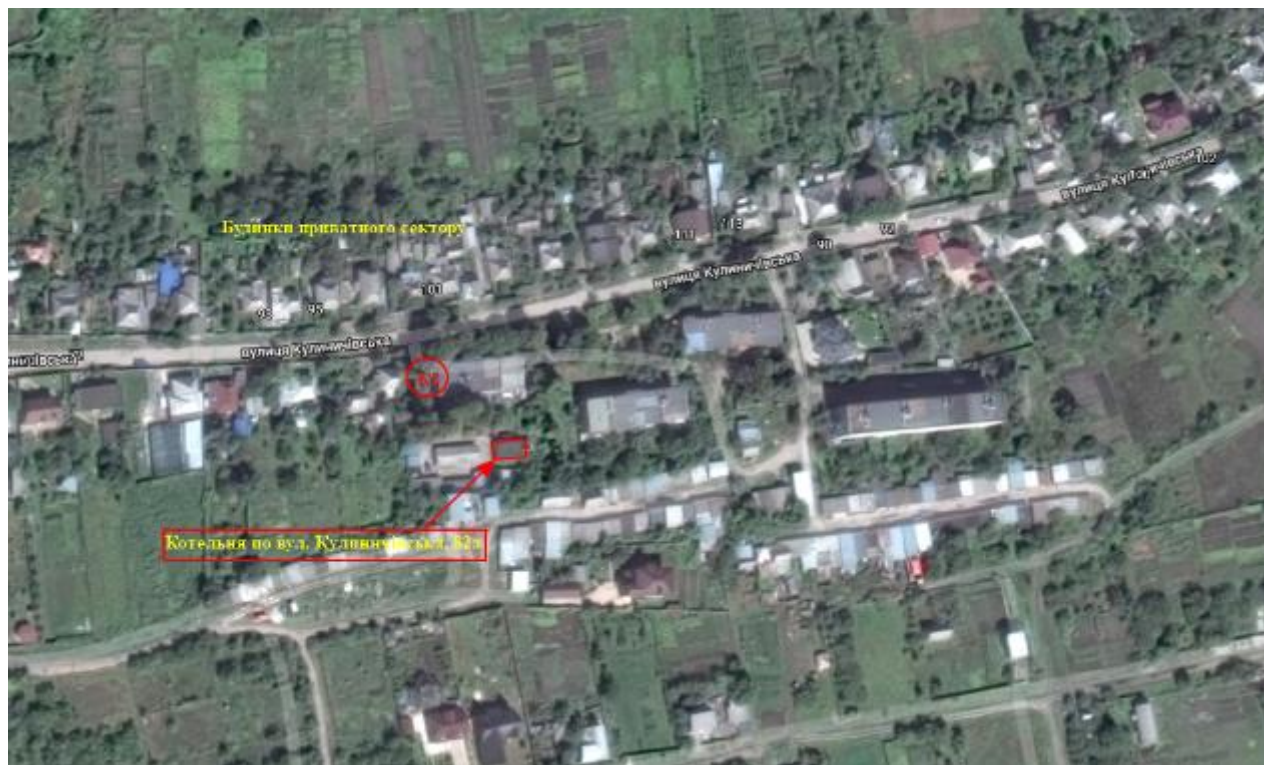
Annex 9. Project site layout plans per the component
“Reconstruction of boiler houses”.

boiler house on the 7, Hrishchenka, Nemyshlianskyi dstr., Kharkiv



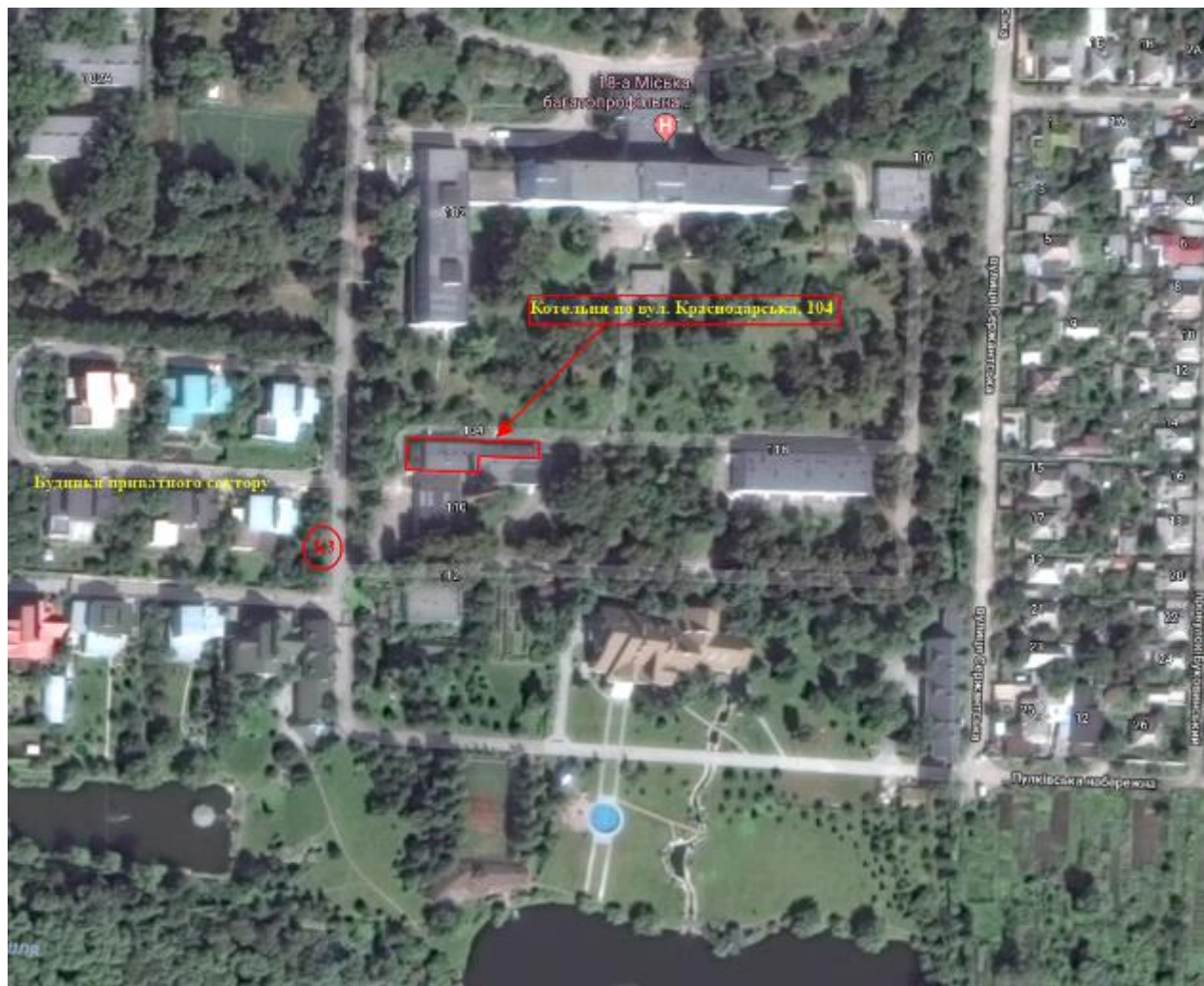
Picture 4.1.3.1.

boiler house on the 82a, Kulynychivska str., Nemyshlianskyi distr., Kharkiv



Picture 4.1.3.2

boiler house on the 104, Krasnodarska str., Nemyshlianskyi dstr., Kharkiv



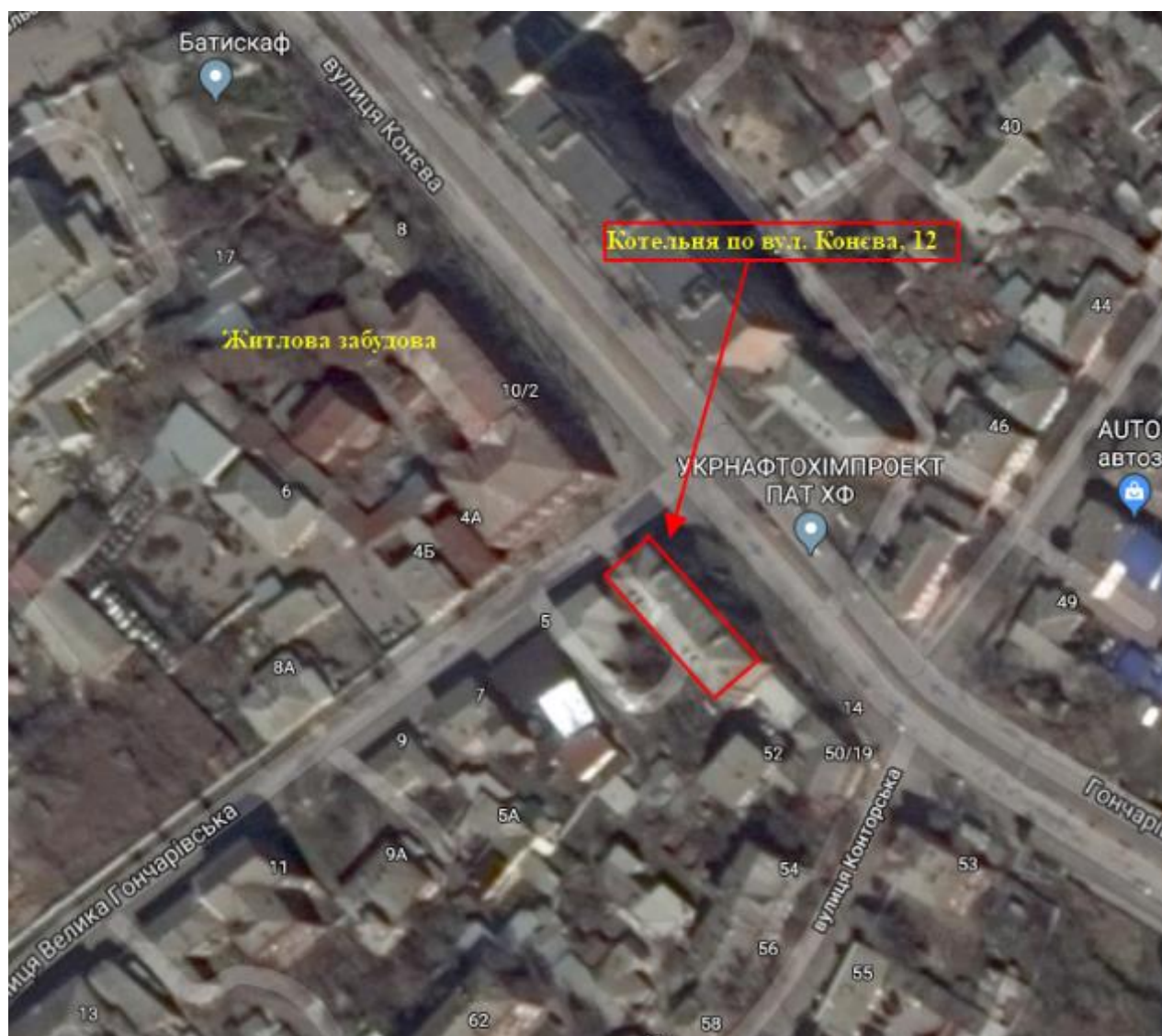
Picture 4.1.3.3.

boiler house “Pivnichnyi-1” on the 9a, Dzherelna str., Moskovskiyi dstr., Kharkiv



Picture 4.1.3.4.

boiler house on the 12, Konieva str., Novobovarskyi dstr., Kharkiv



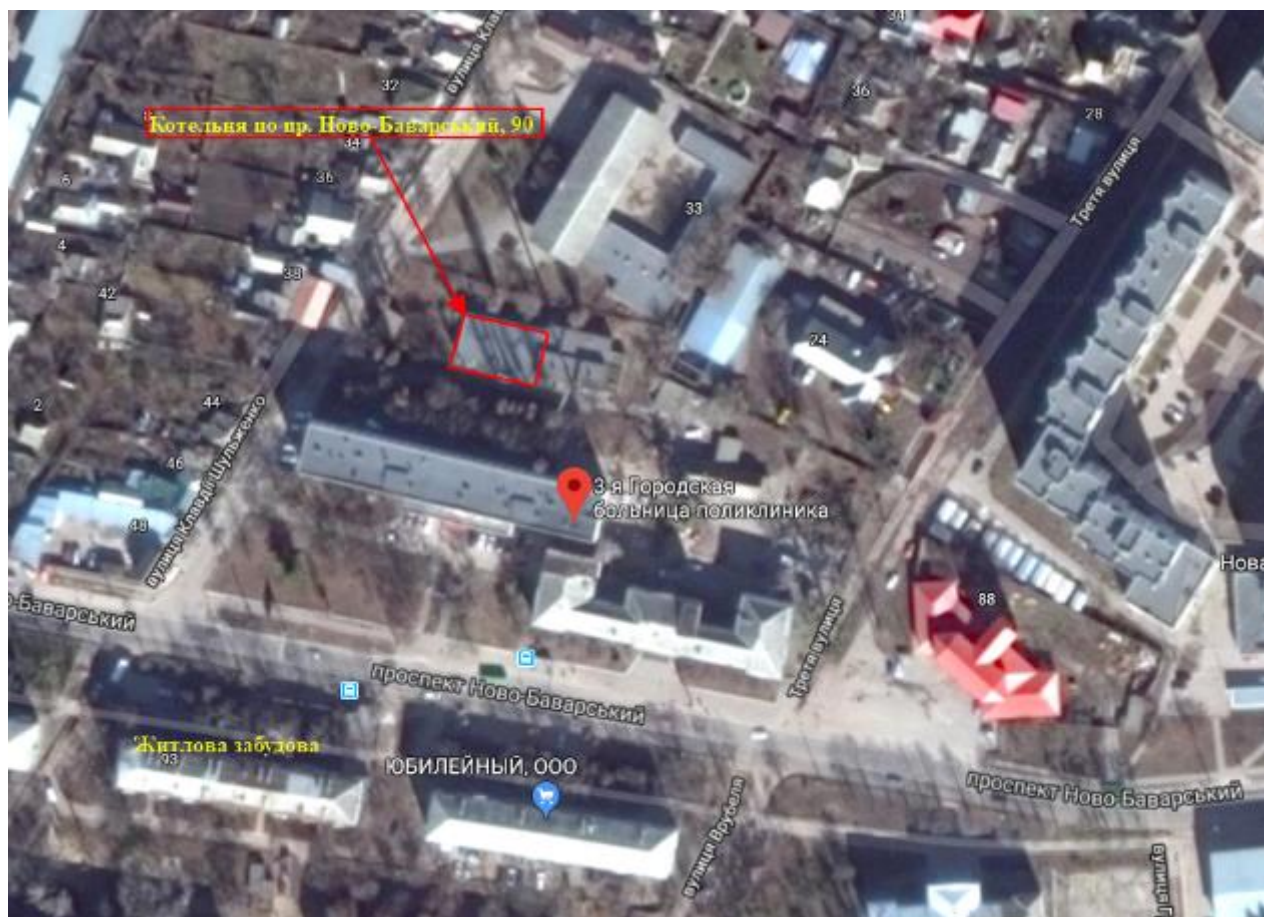
Picture 4.1.3.5.

boiler house on the 6/10, Polzunova lane, Novobovarskyi dstr., Kharkiv



Picture 4.1.3.6.

boiler house on the 90, Novo-Bovarskyi ave., Novobovarskyi dstr., Kharkiv



Picture 4.1.3.7.

boiler house on the 53, Lomonosova str., Novobovarskyi dstr., Kharkiv



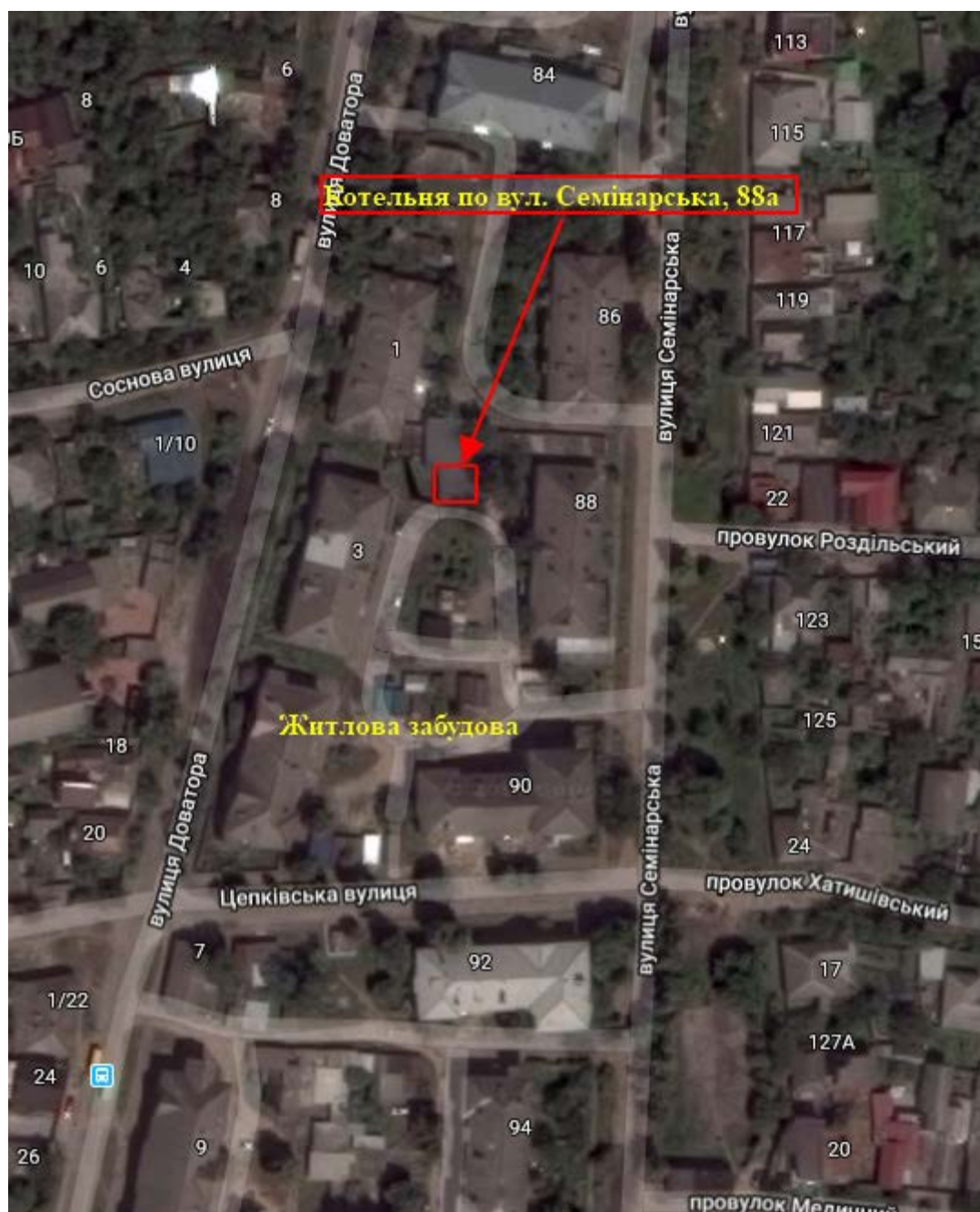
Picture 4.1.3.8.

boiler house on the 8, Bulvarna str., Novobovarskyi dstr., Kharkiv



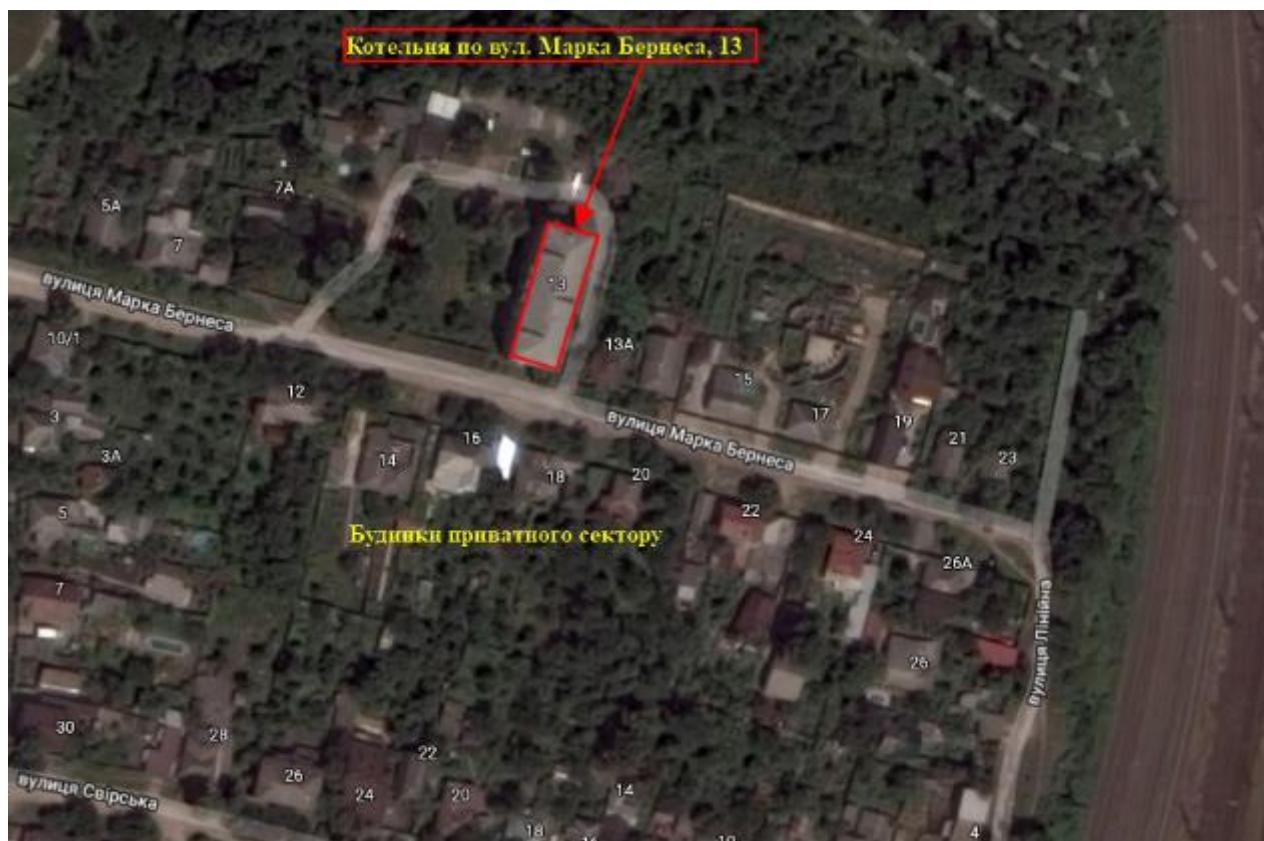
Picture 4.1.3.9.

boiler house on the 88a, Seminarska str., Novobovarskyi dstr., Kharkiv



Picture 4.1.3.10

boiler house on the 13, Marka Bernesa str., Novobovarskyi dstr., Kharkiv



Picture 4.1.3.11

boiler house on the 5, Metiznyi lane, Novobovarskyi dstr., Kharkiv



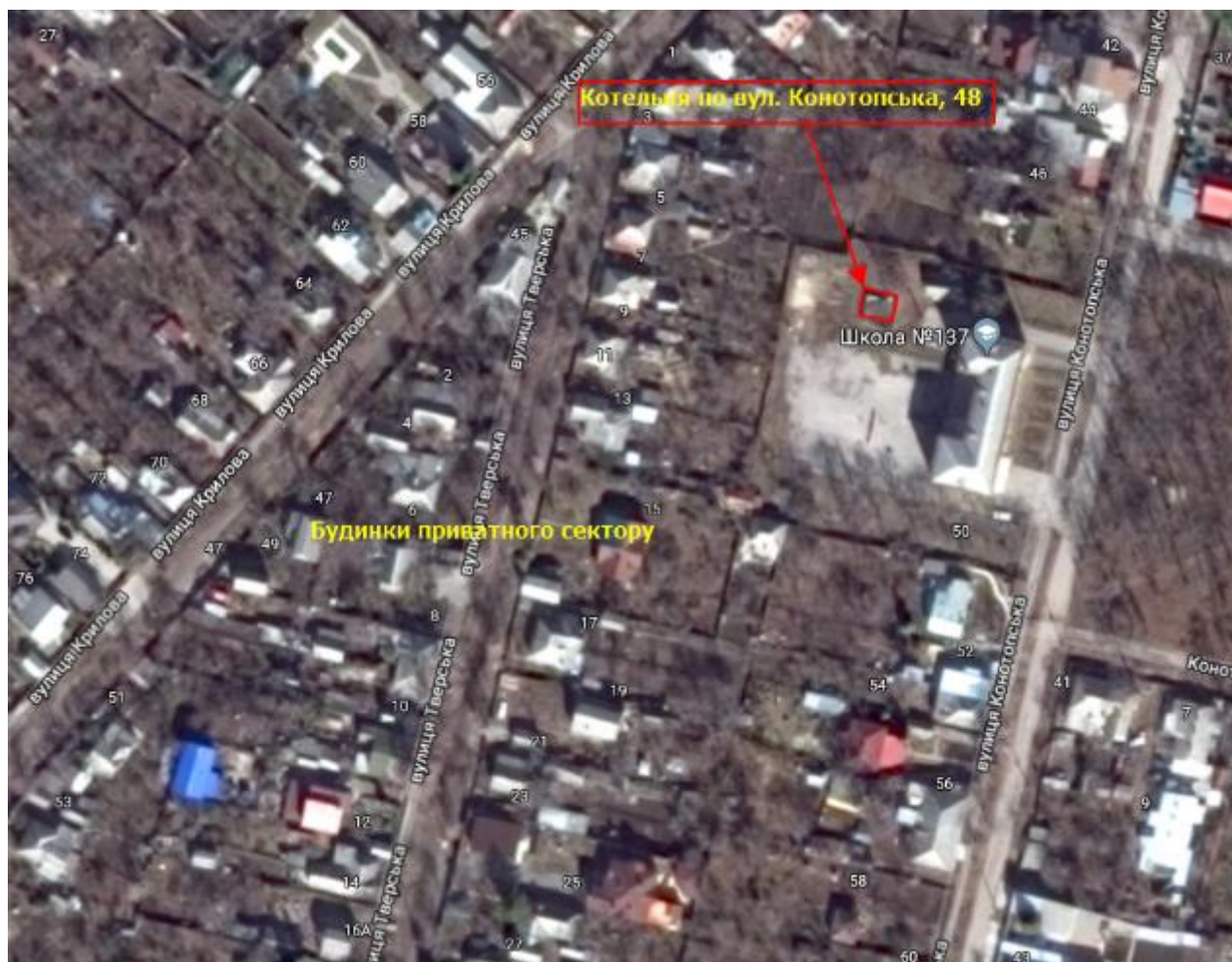
Picture 4.1.3.12.

boiler house on the 7a, St. Nova Bavariia str., Novobovarskyi dstr., Kharkiv



Picture 4.1.3.13

Boiler house on the 48, Konotopaska str., Novobavarskyi dstr., Kharkiv



Picture 4.1.3.14.

boiler house on the 26, Kontorska str., Novobavarskyi dstr., Kharkiv



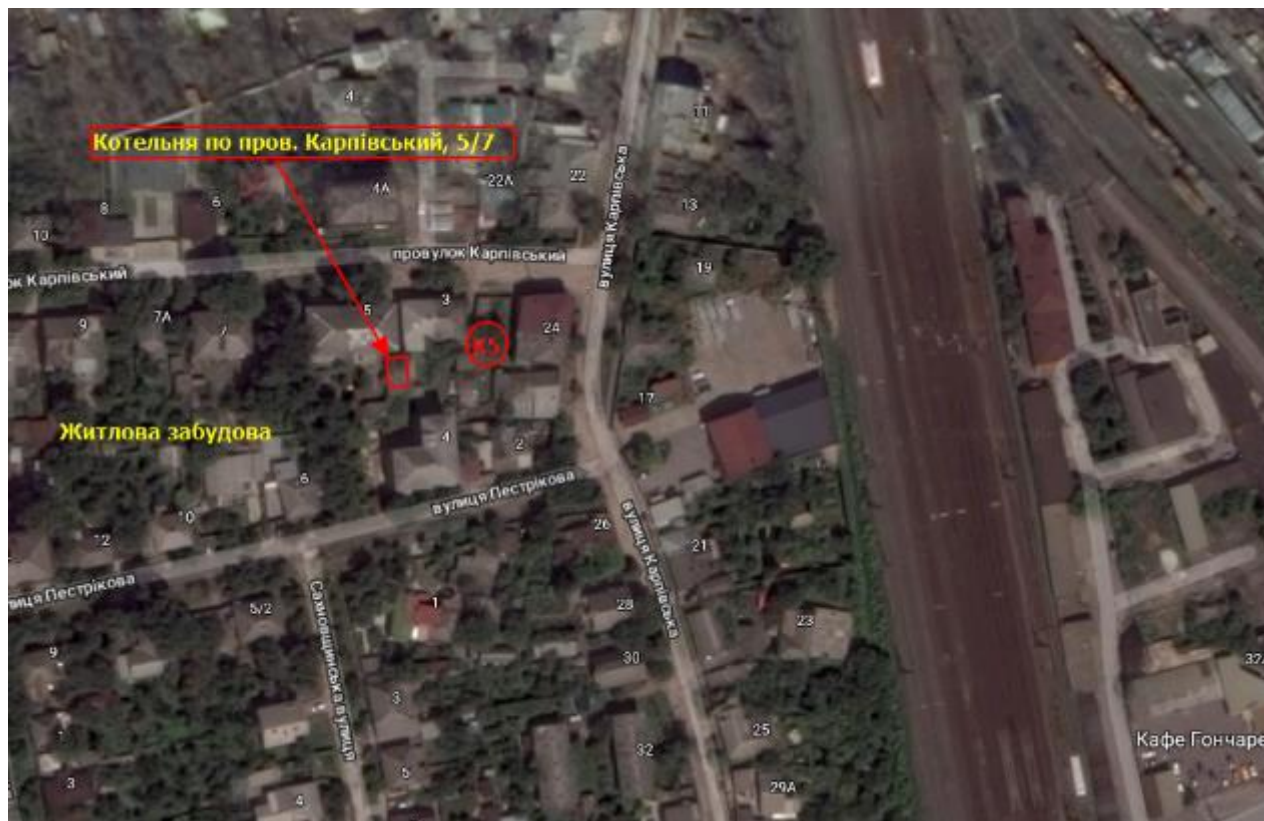
Picture 4.1.3.15.

boiler house on the 2, Kontorska str., Novobavarskyi dstr., Kharkiv



Picture 4.1.3.16.

boiler house on the 5/7, Karpivskiy lane, Novobavarskiy dstr., Kharkiv



Picture 4.1.3.17.

boiler house on the 66, Naboichenka Petra str., Novobavarskyi dstr., Kharkiv



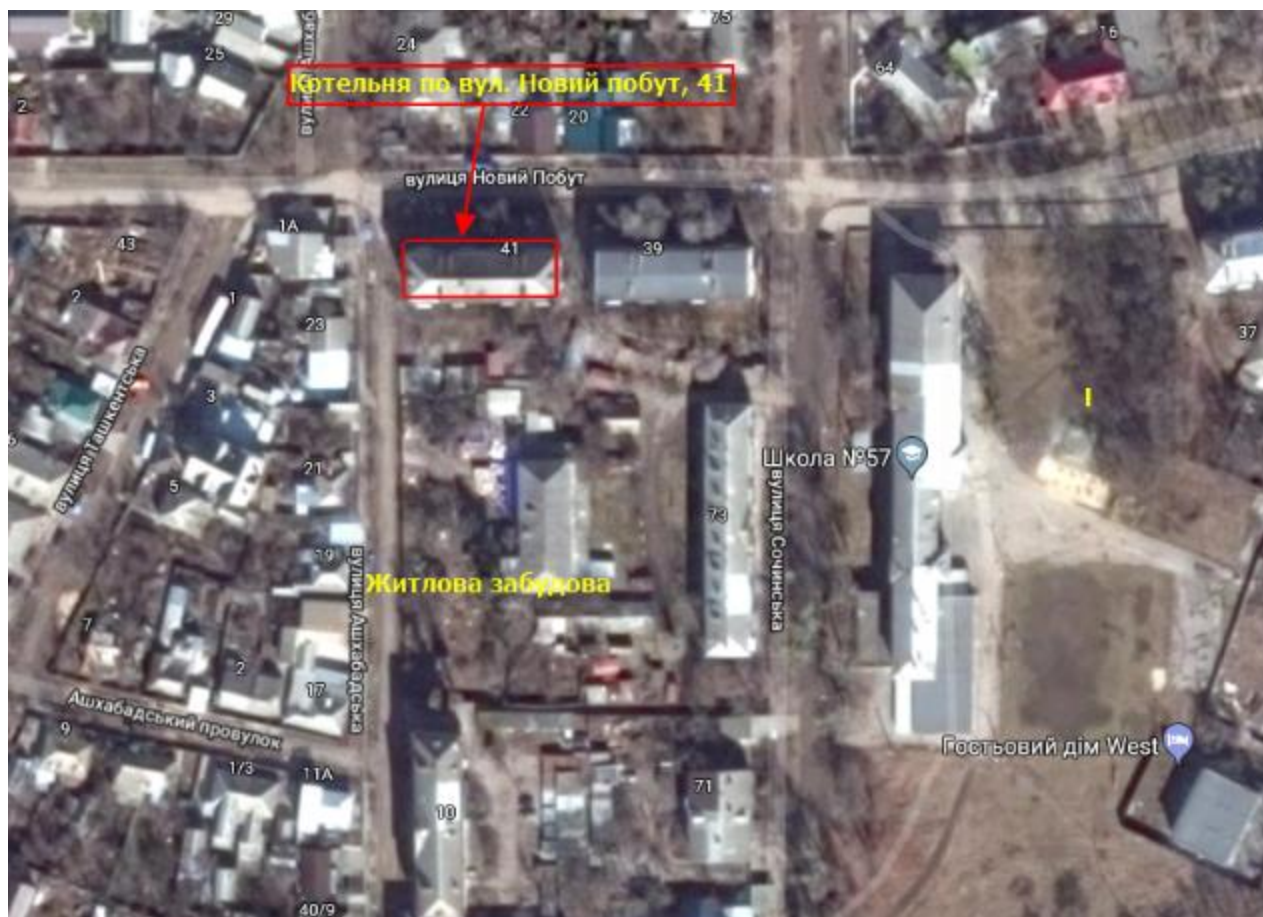
Picture 4.1.3.18

boiler house on the 99a, Novo-Bavarskyi ave., Novobavarskyi dstr., Kharkiv



Picture 4.1.3.19.

boiler house on the 41, Novyi pobut str., Kholodnohirskyi dstr., Kharkiv



Picture 4.1.3.20.

boiler house on the 49/51, Rylieieva str., Kholodnohirskiy dstr., Kharkiv



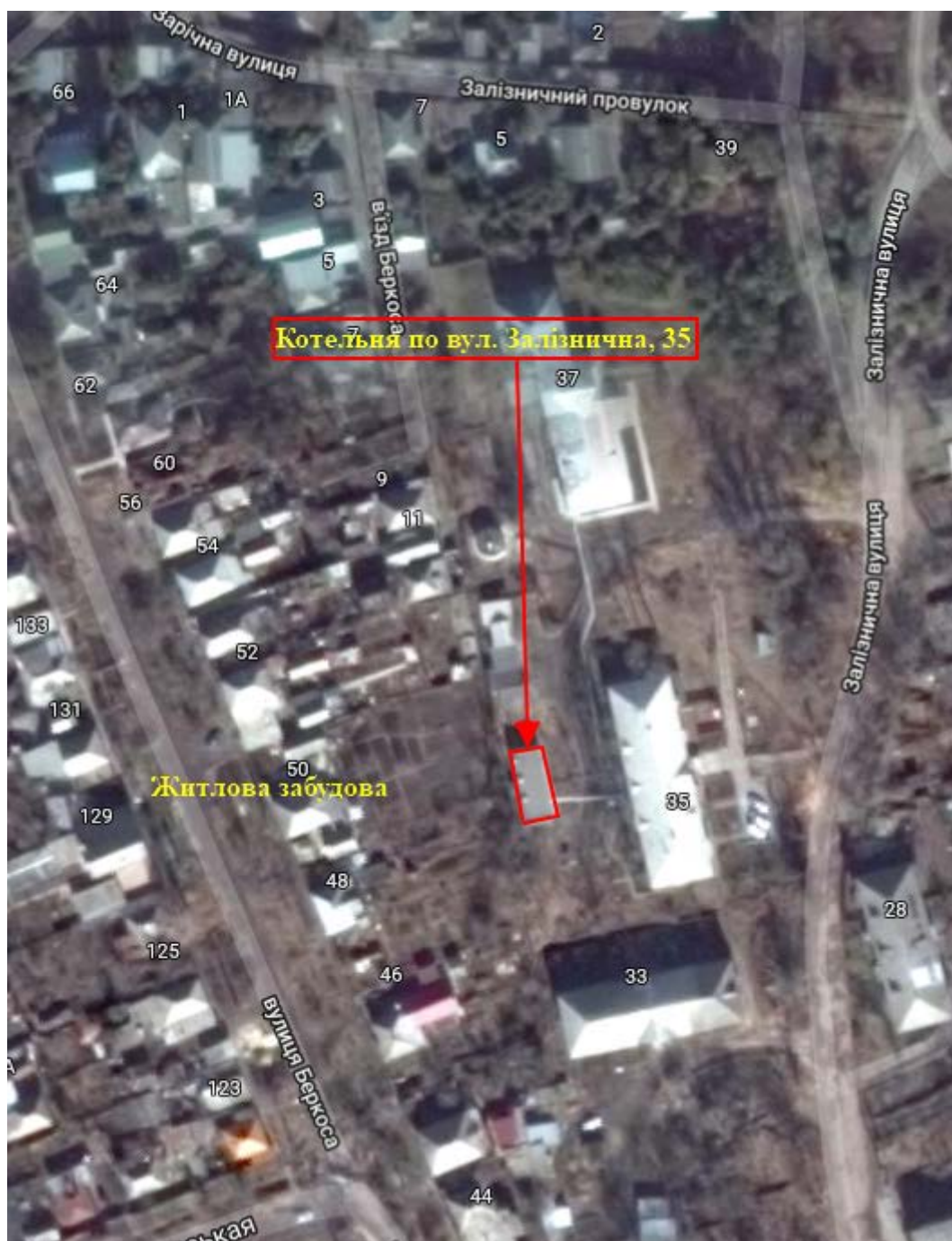
Picture 4.1.3.21

boiler house on the 67, Velyka Panasivska str., Kholodnohirskyi distr., Kharkiv



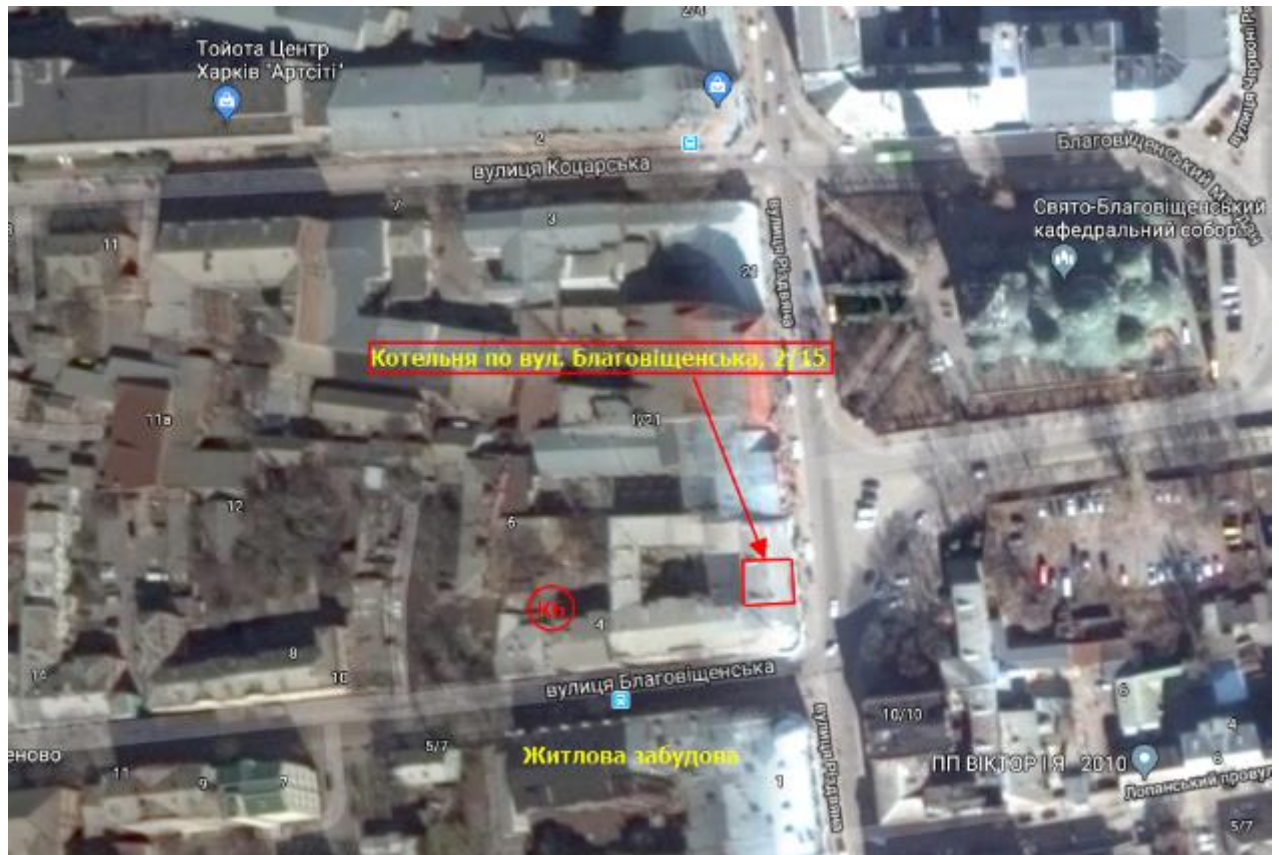
Picture 4.1.3.22

boiler house on the 35, Zaliznychna str., Kholodnohirskyi dstr., Kharkiv



Picture 4.1.3.23.

boiler house on the 2/15, Blahovishchenska str., Kholodnohirskyi dstr., Kharkiv



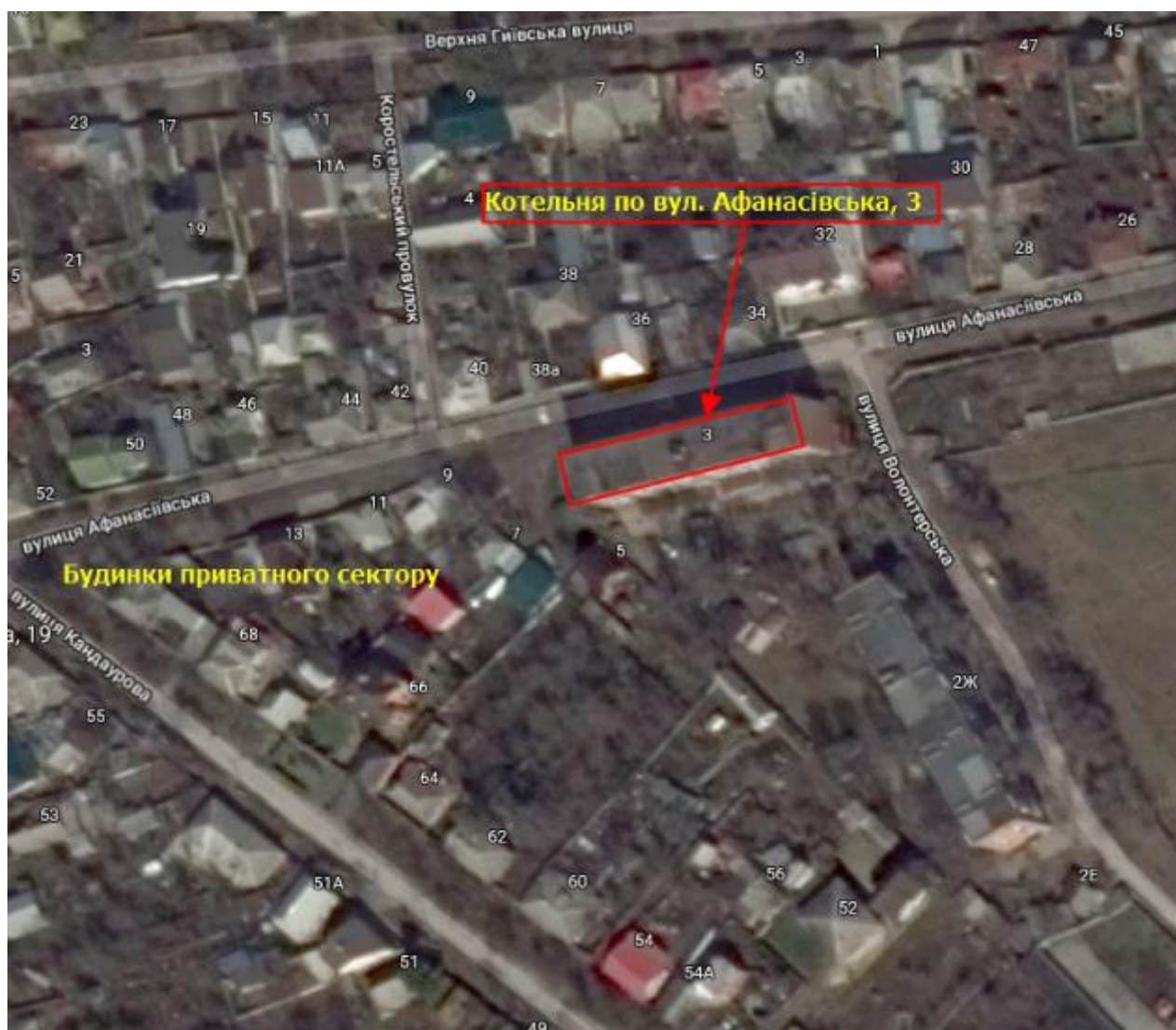
Picture 4.1.3.24.

boiler house on the 12, Baltiiska str., Kholodnohirskiy dstr., Kharkiv



Picture 4.1.3.25.

boiler house on the 3, Afanasivska str., Kholodnohirskyi dstr., Kharkiv



Picture 4.1.3.26.

boiler house on the 205, Velyka Panasivska str., Kholodnohirskiy dstr., Kharkiv



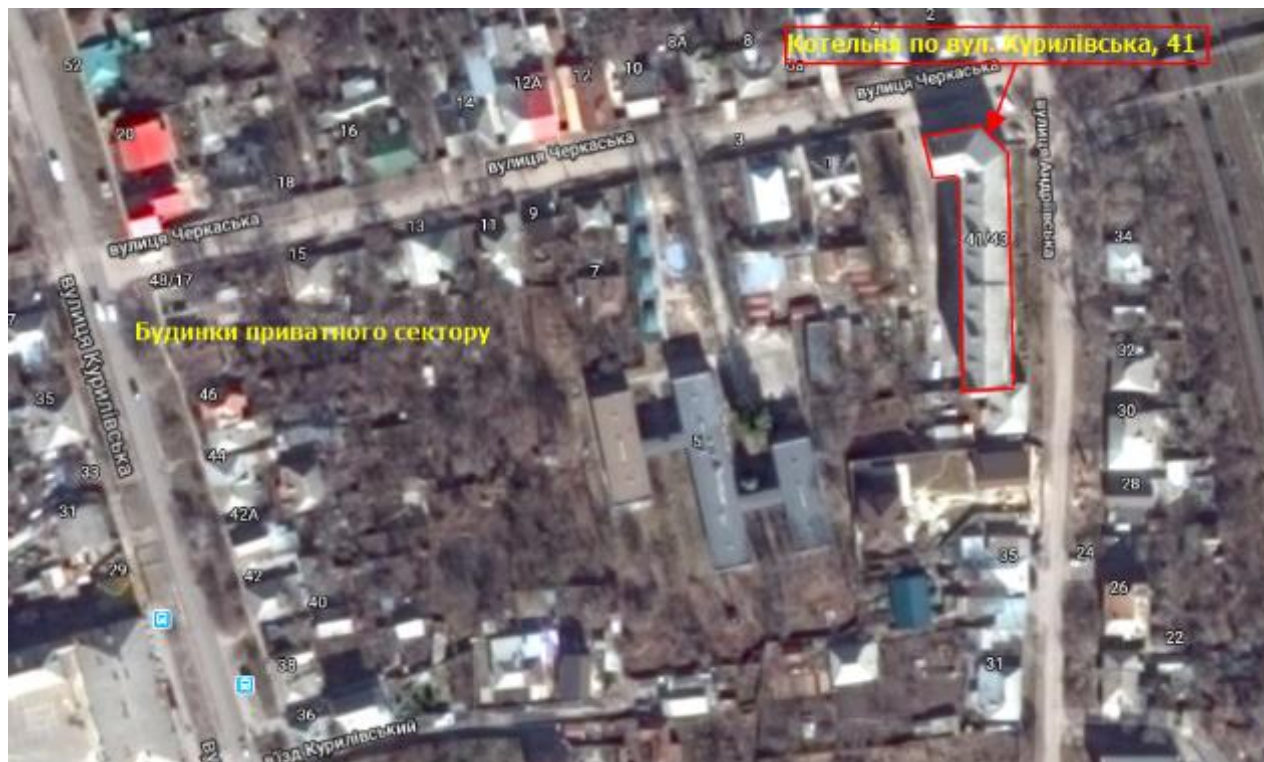
Picture 4.1.3.27.

boiler house on the 27/5, Berkosa str., build. 5, Kholodnohirskiy dstr., Kharkiv



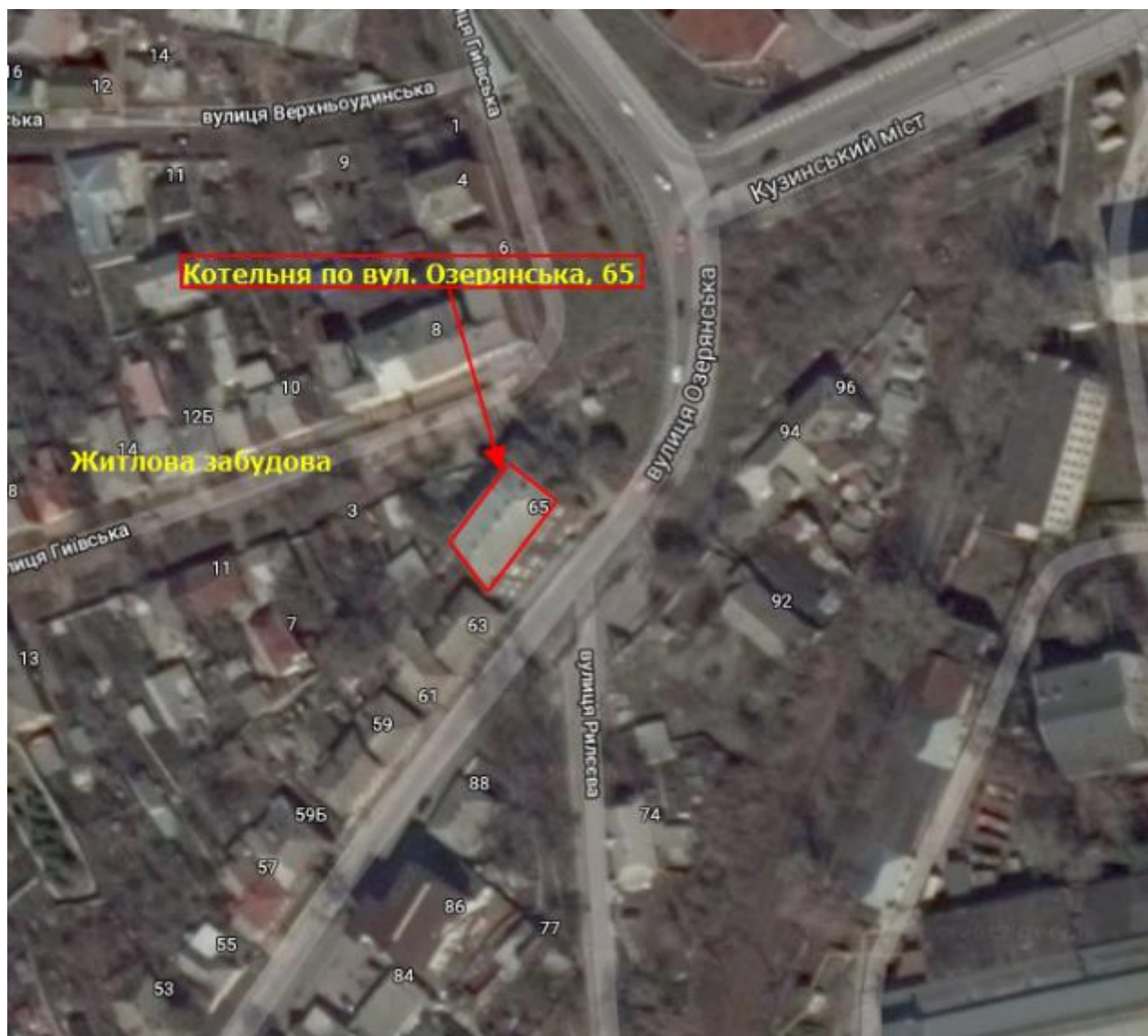
Picture 4.1.3.28.

boiler house on the 41, Kurylivska str., Kholodnohirskyi dstr., Kharkiv



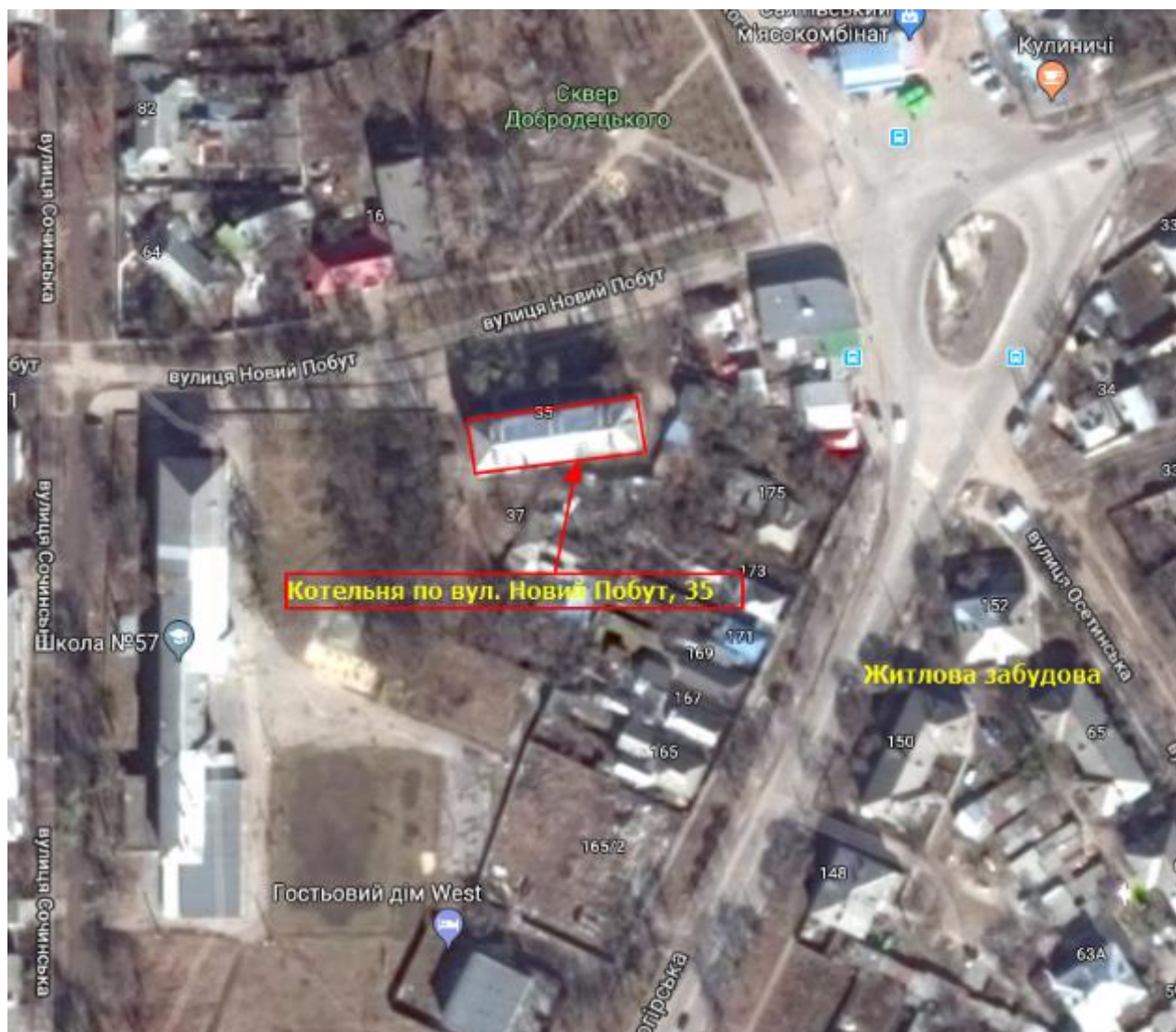
Picture 4.1.3.29

boiler house on the 65, Ozerianska str., Kholodnohirskiy dstr., Kharkiv



Picture 4.1.3.30.

boiler house on the 35, Novyi Pobut str., Kholodnohirskiy dstr., Kharkiv



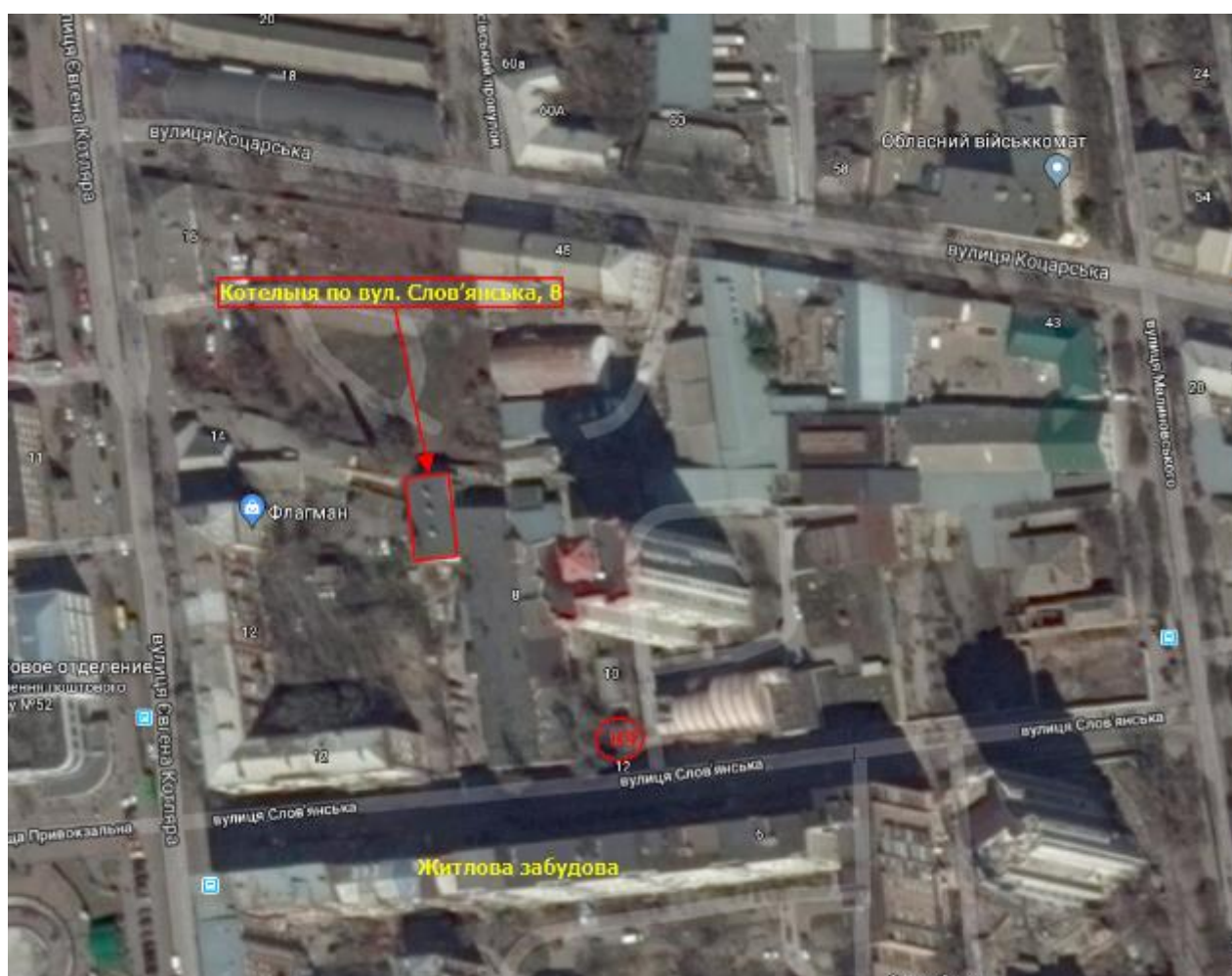
Picture 4.1.3.31.

boiler house on the 6, Rizdviana str., Kholodnohirskiy dstr., Kharkiv



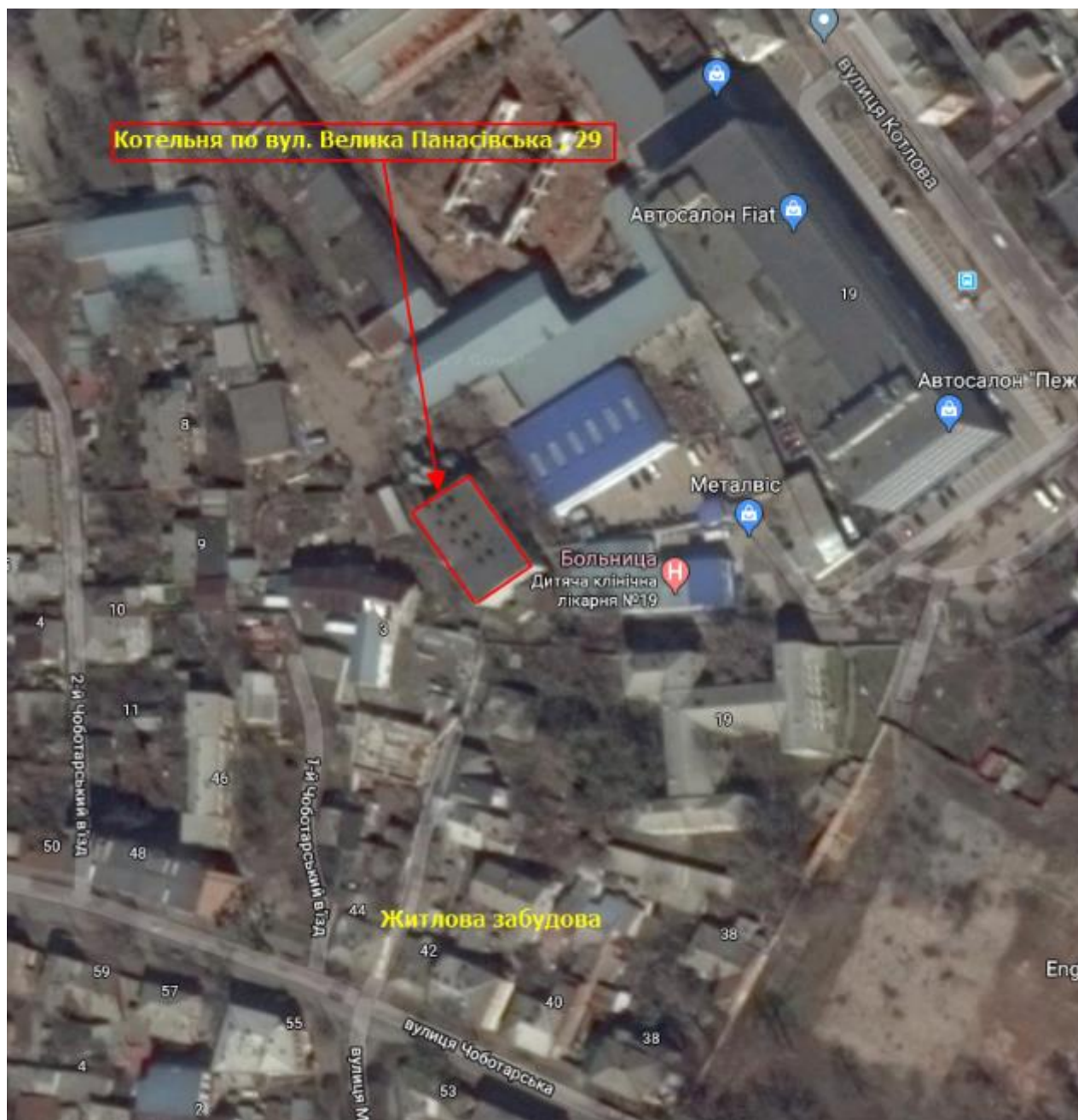
Picture 4.1.3.32

boiler house on the 8, Slovianska str., Kholodnohirskyi dstr., Kharkiv



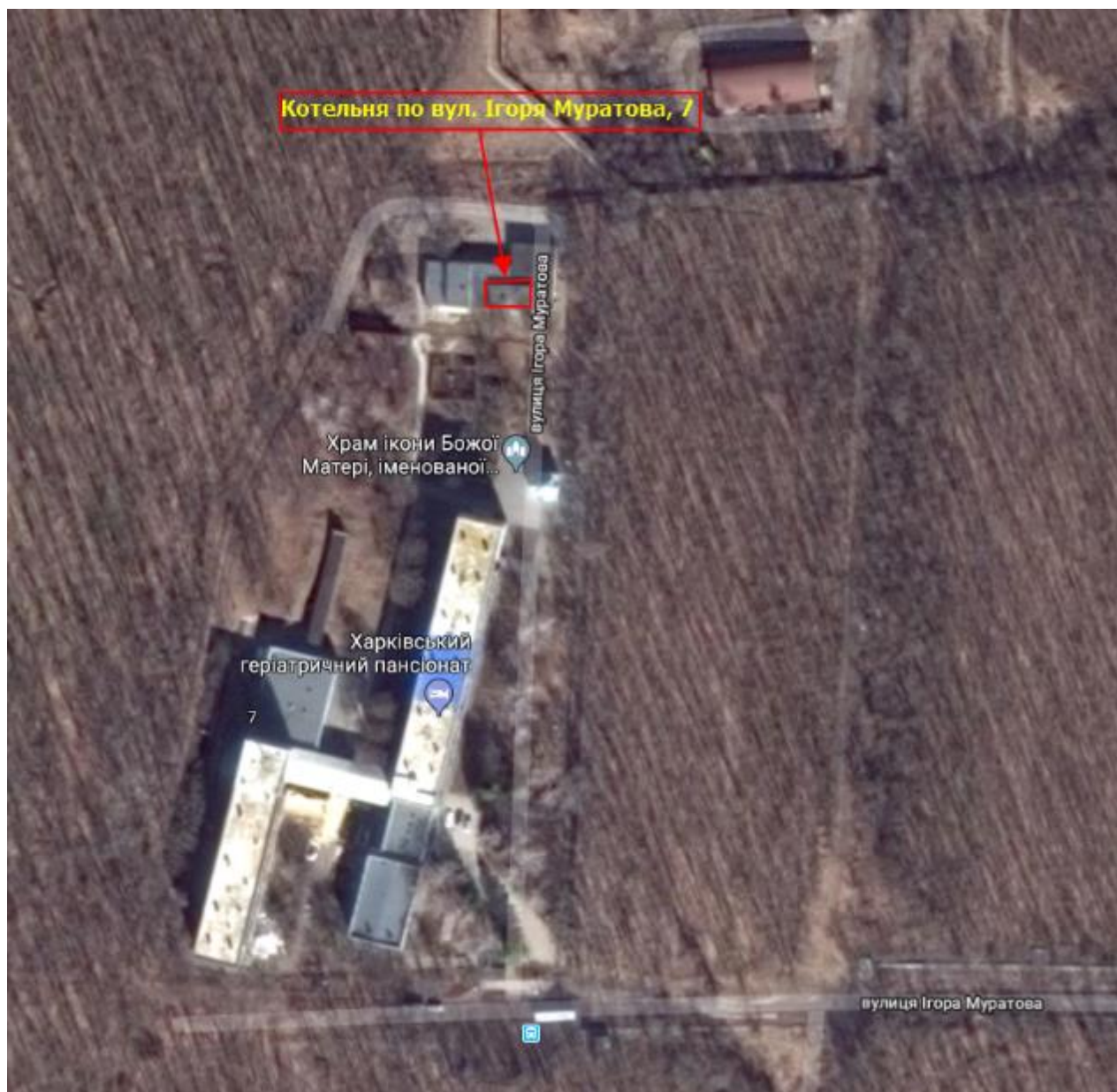
Picture 4.1.3.33.

boiler house on the 29, Velyka Panasivska str., Kholodnohirskyi distr., Kharkiv



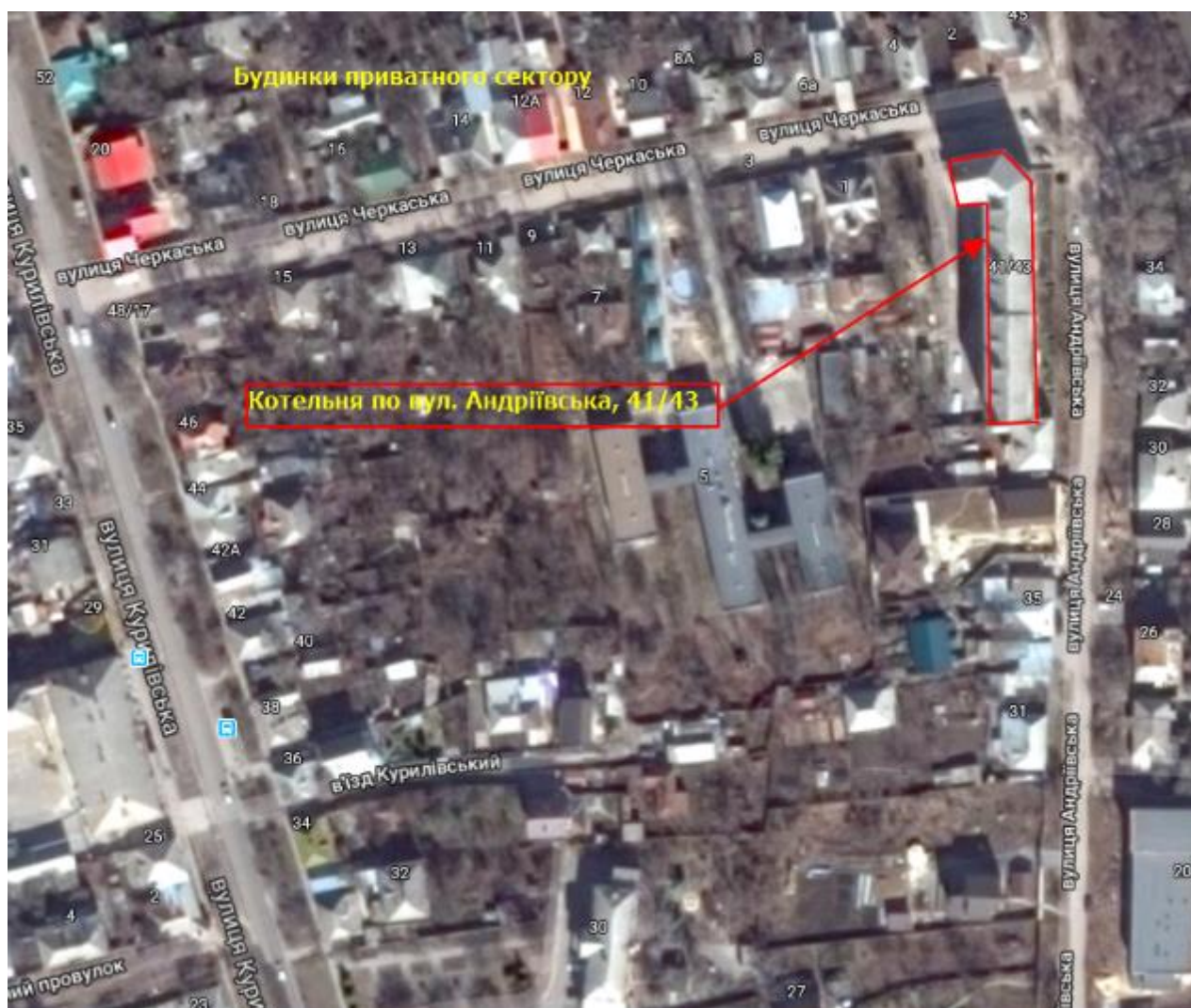
Picture 4.1.3.34

boiler house on the 7, Ihoria Muratova str., Kholodnohirskyi dstr., Kharkiv



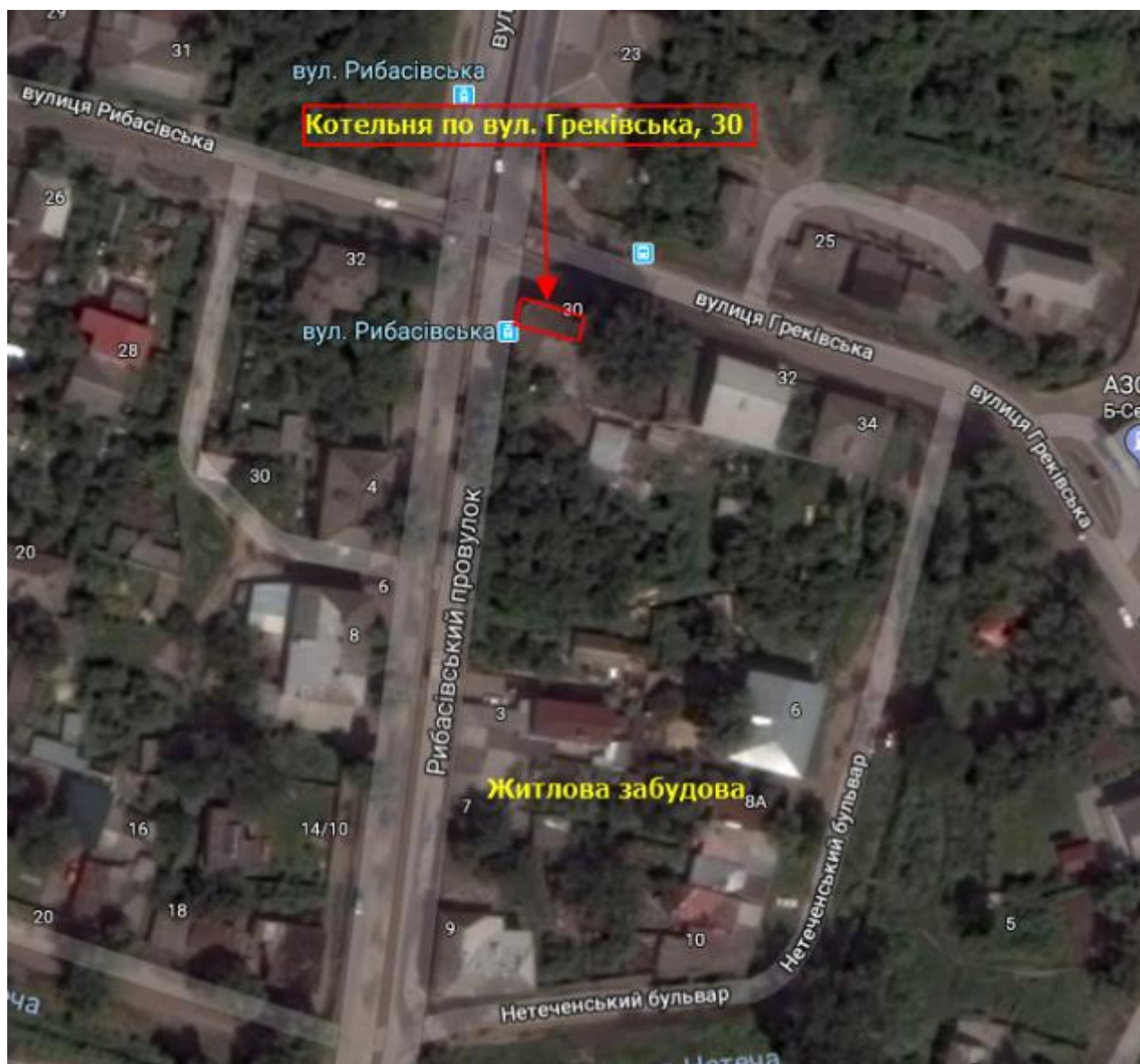
Picture 4.1.3.35.

boiler house on the 41/43, Andriivska str., Kholodnohirskiy dstr., Kharkiv



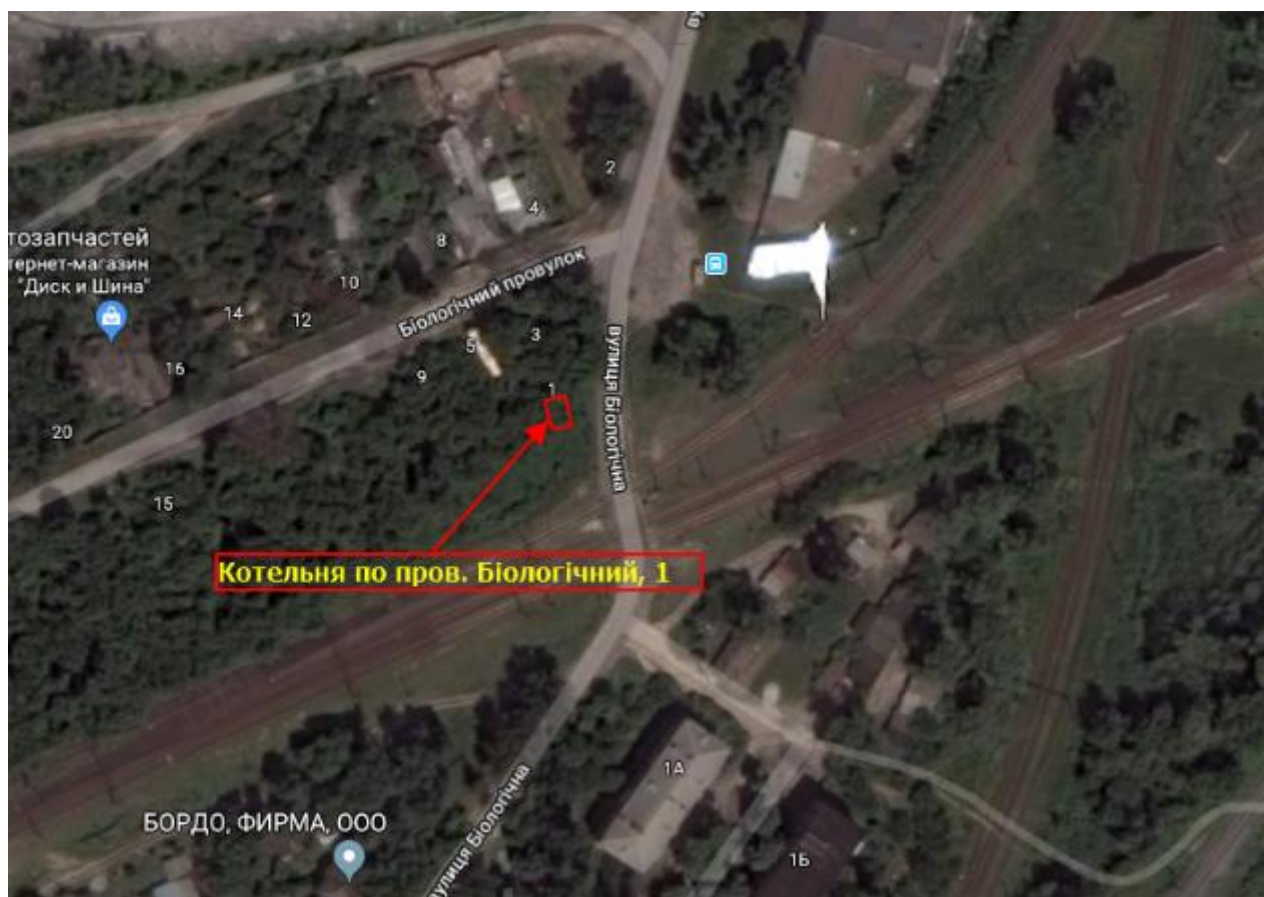
Picture 4.1.3.36

boiler house on the 30, Hrekivska str., Osnovianskyi dstr., Kharkiv



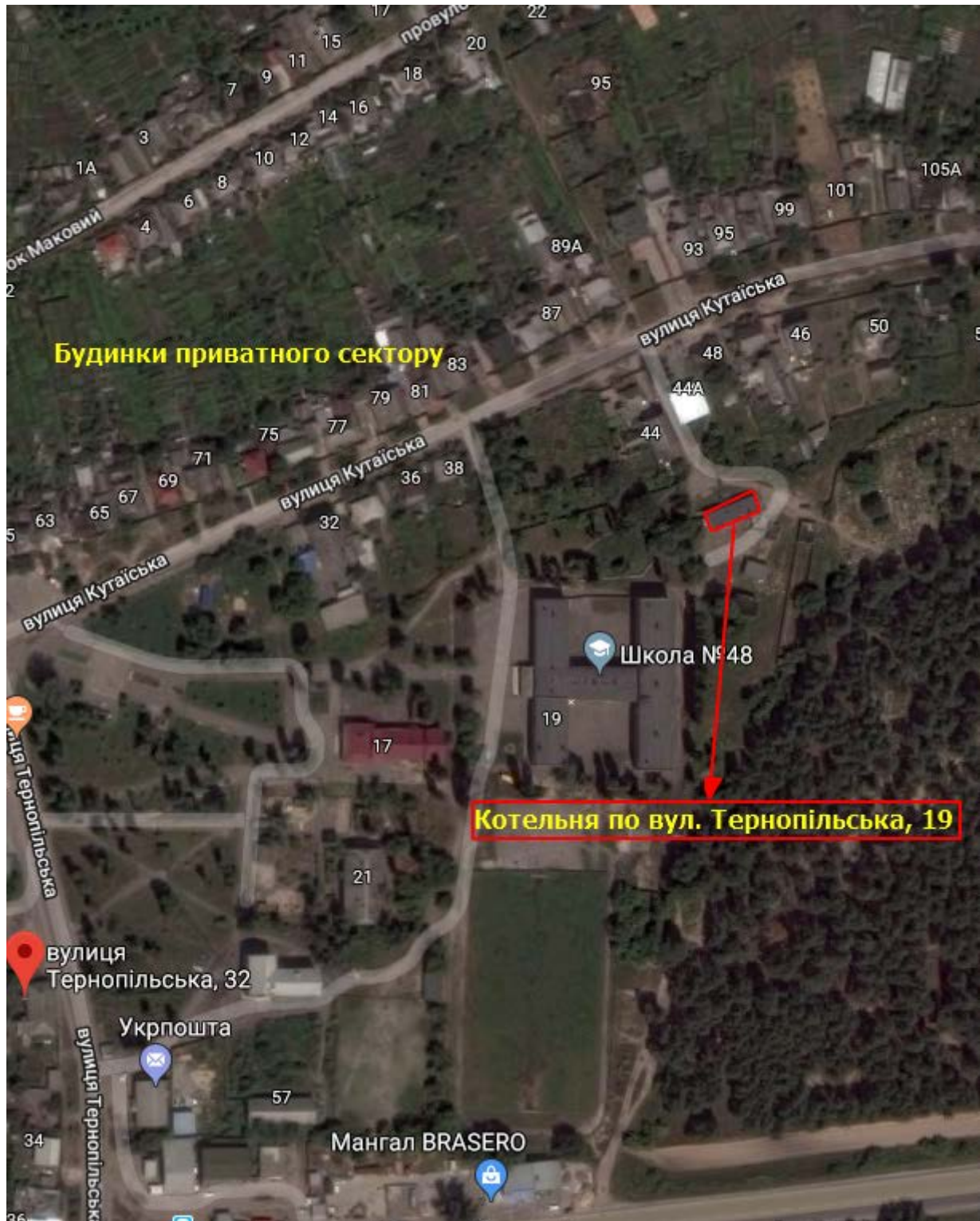
Picture 4.1.3.37.

boiler house on the 1, Biolohichnyi lane, Osnovianskyi dstr., Kharkiv



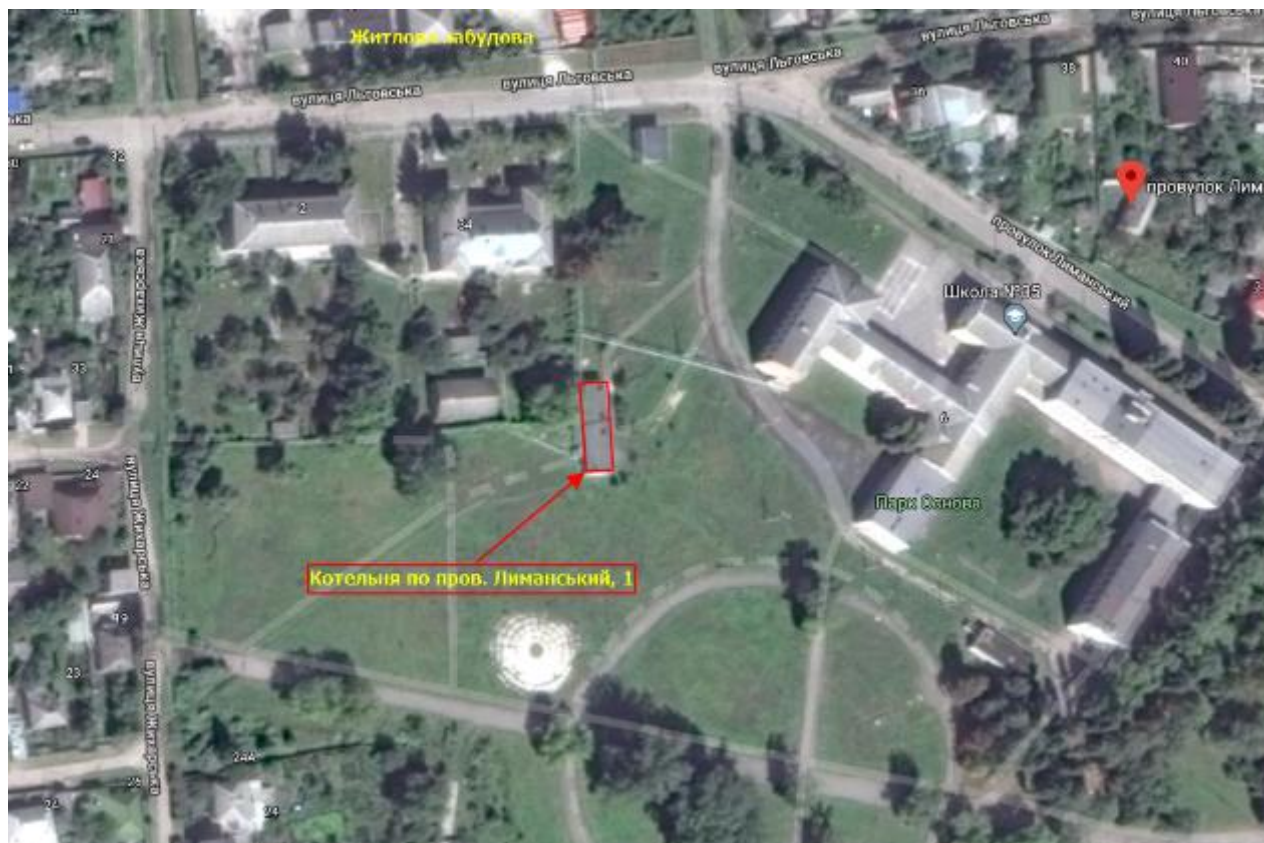
Picture 4.1.3.38.

boiler house on the 19, Ternopilska str., Osnovianskyi dstr., Kharkiv



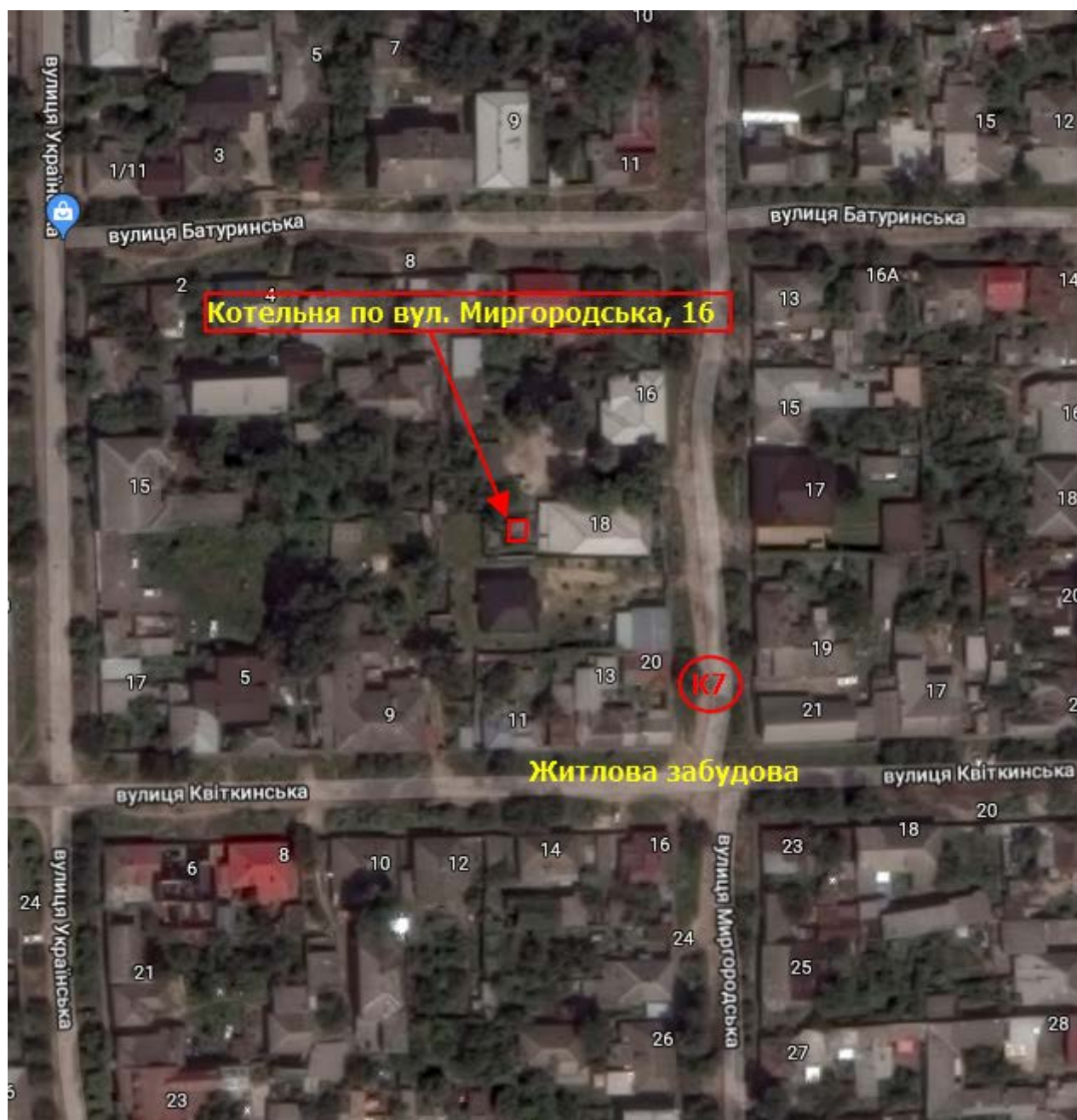
Picture 4.1.3.39.

boiler house on the 1, Lymanskyi lane, Osnovianskyi dstr., Kharkiv



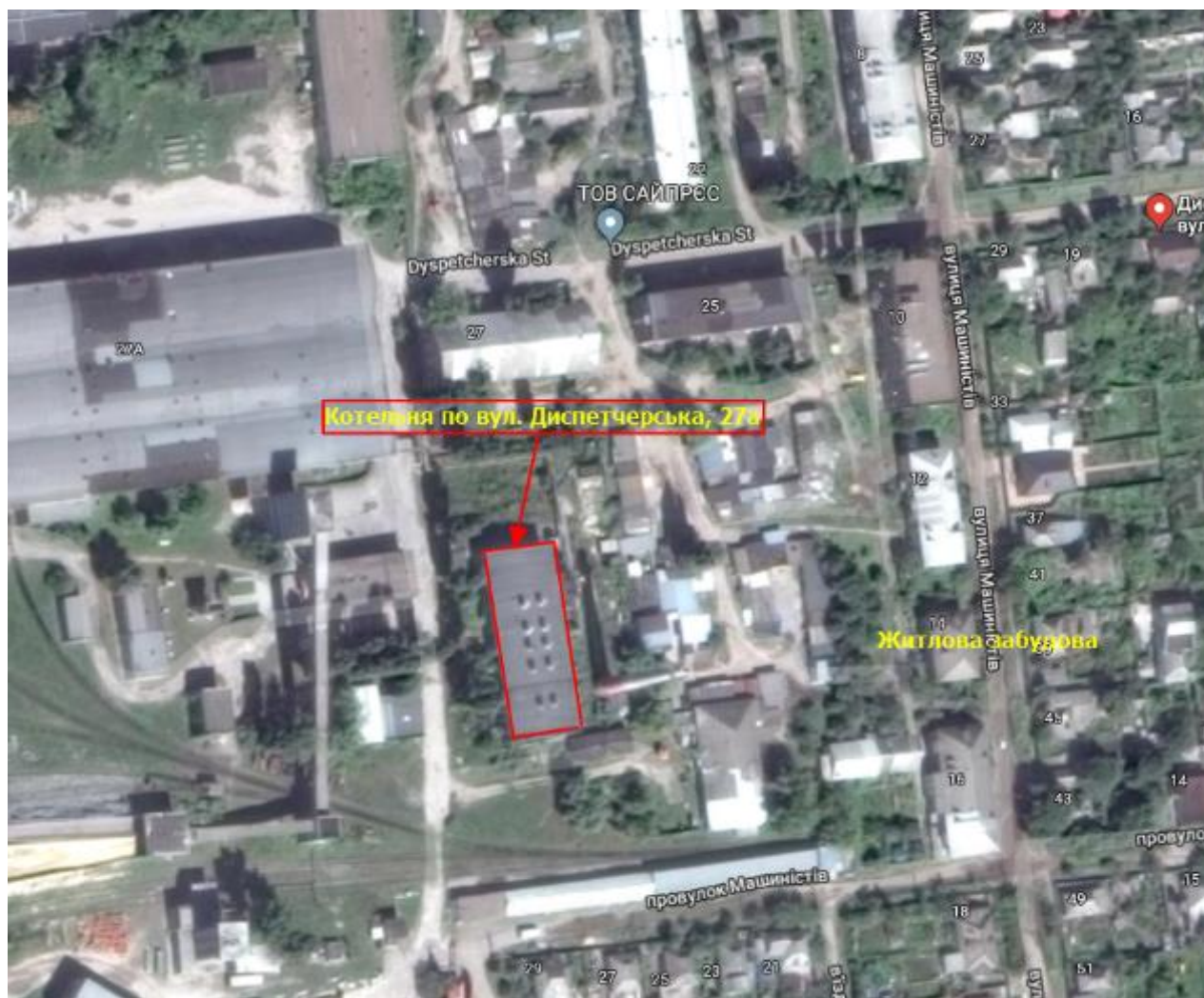
Picture 4.1.3.40.

boiler house on the 16, Myrhorodska str., Osnovianskyi dstr., Kharkiv



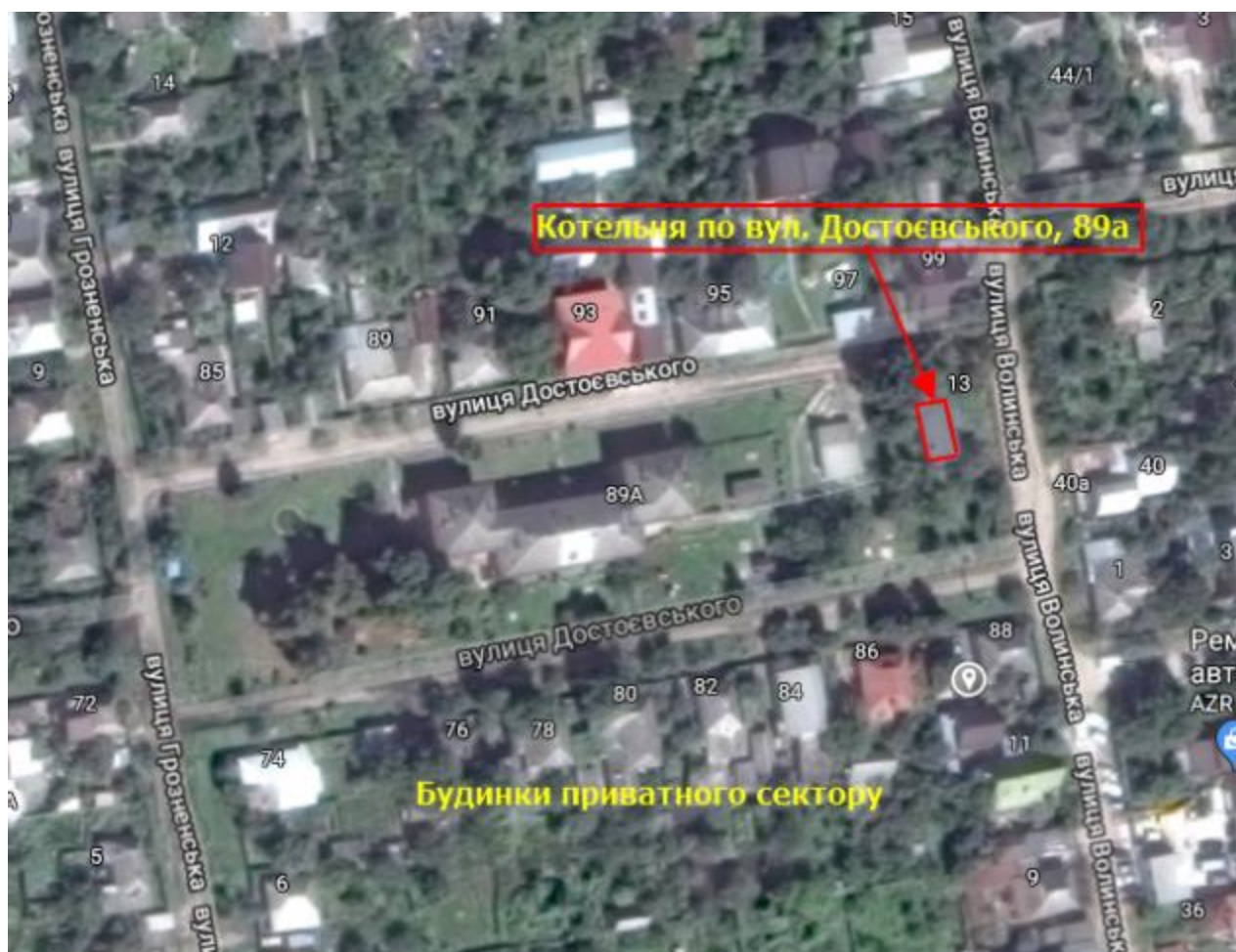
Picture 4.1.3.41.

boiler house on the 27a, Dyspetcherska str., Osnovianskyi dstr., Kharkiv



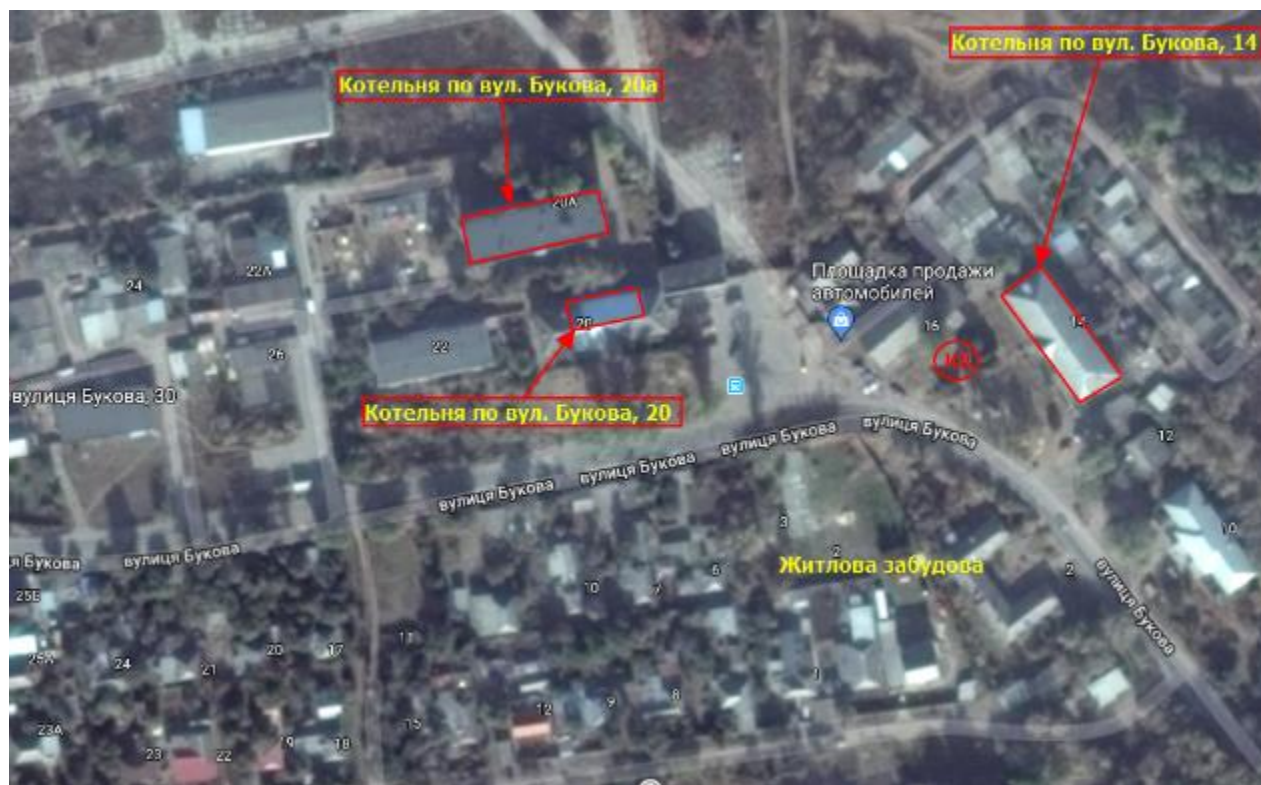
Picture 4.1.3.42.

boiler house on the 89a, Dostoievskoho str., Osnovianskyi dstr., Kharkiv



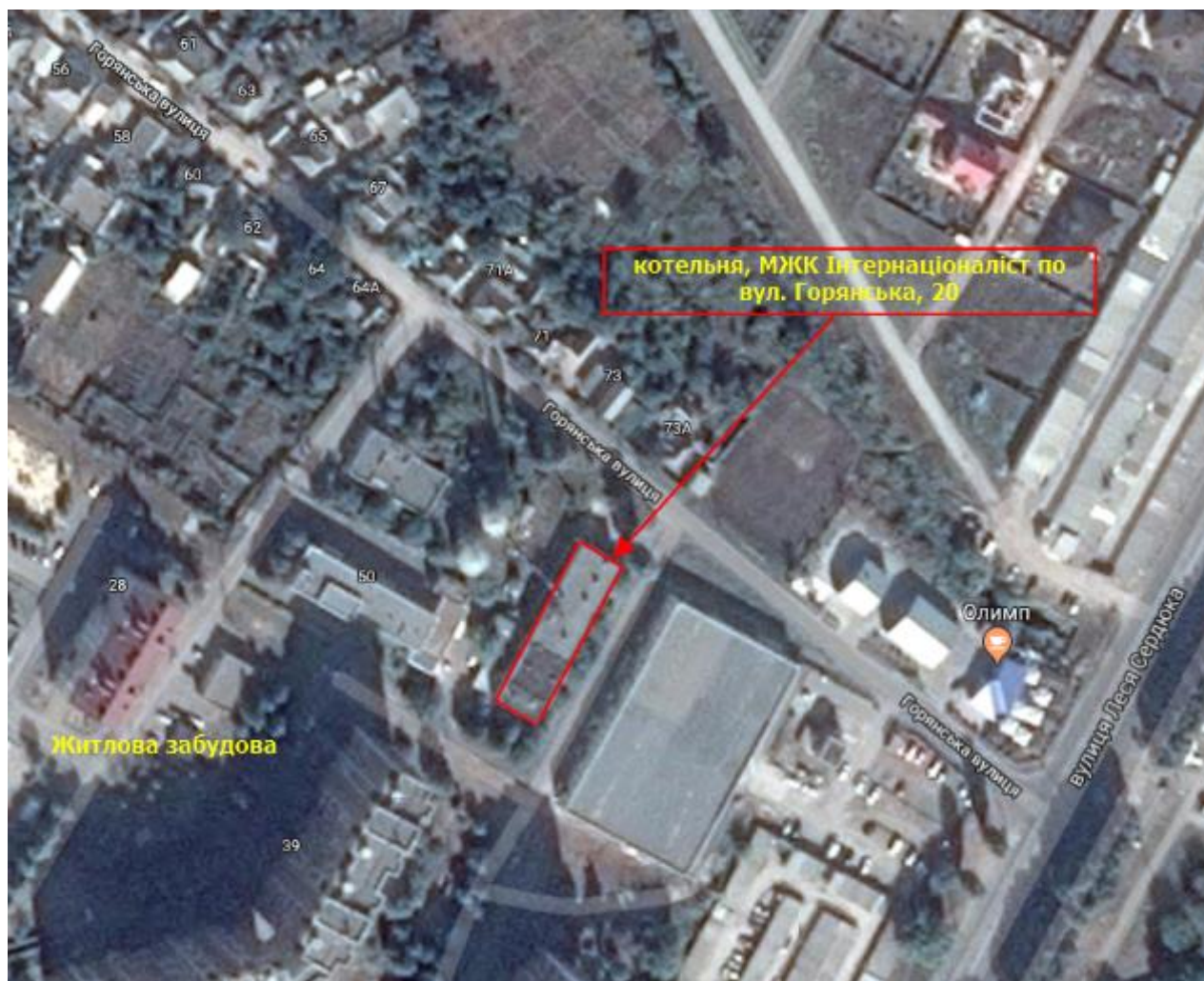
Picture 4.1.3.43.

boiler houses on the 14, 20A and 20, Bukova str., Shevchenkivskyi dstr., Kharkiv



Picture 4.1.3.44.

boiler house, YRC Internationalist, 20, Horianska str., Kyivskiy dstr., Kharkiv



Picture 4.1.3.47.

boiler house “Piatykhatty” in 1, Akademichna str., Kyivskyi distr., Kharkiv



Picture 4.1.3.48.

boiler house on the 106, Saperna str., Kyivskiyi dstr., Kharkiv



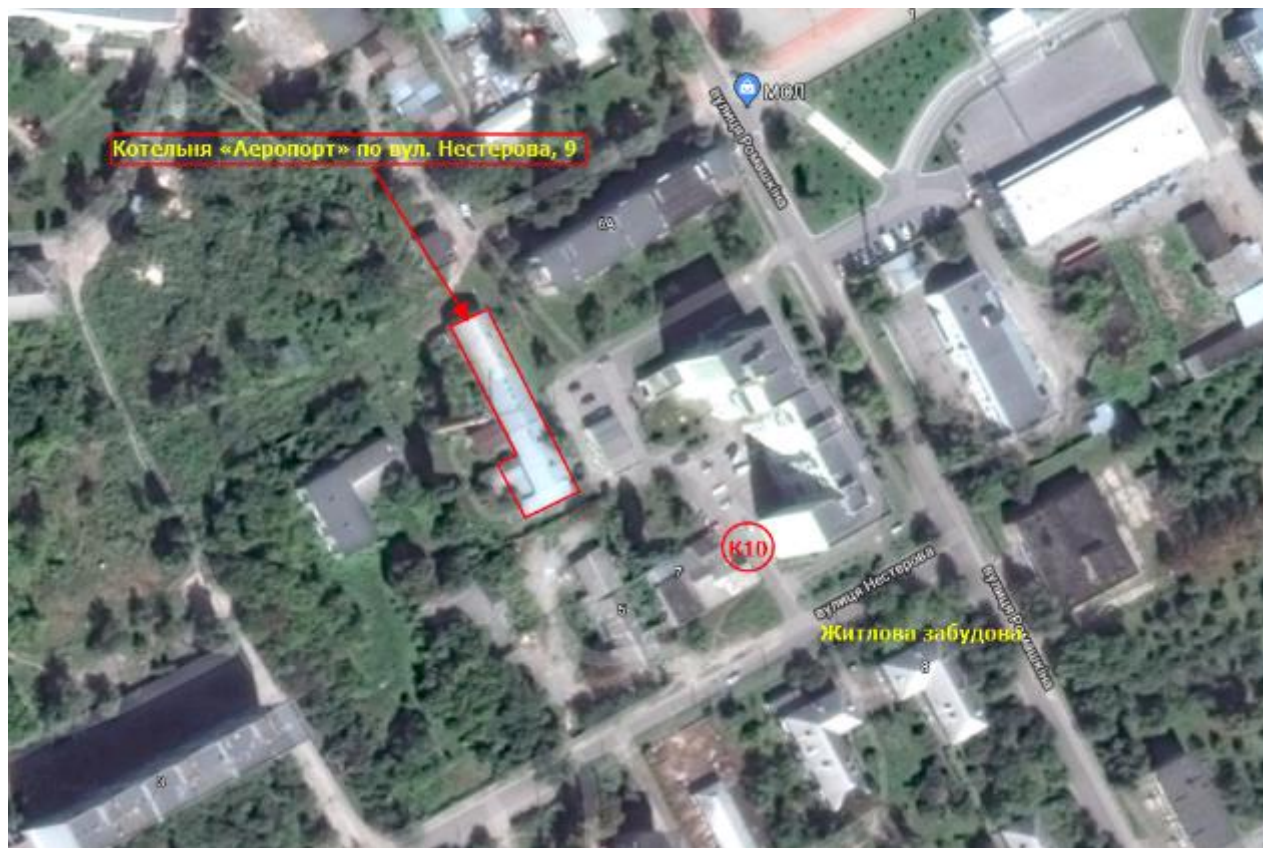
Picture 4.1.3.49.

boiler house on the 27, Pomirky str., Kyivskyi dstr., Kharkiv



Picture 4.1.3.50.

boiler house "Airport" on the 9, Nesterova str., Slobidskyi dstr., Kharkiv



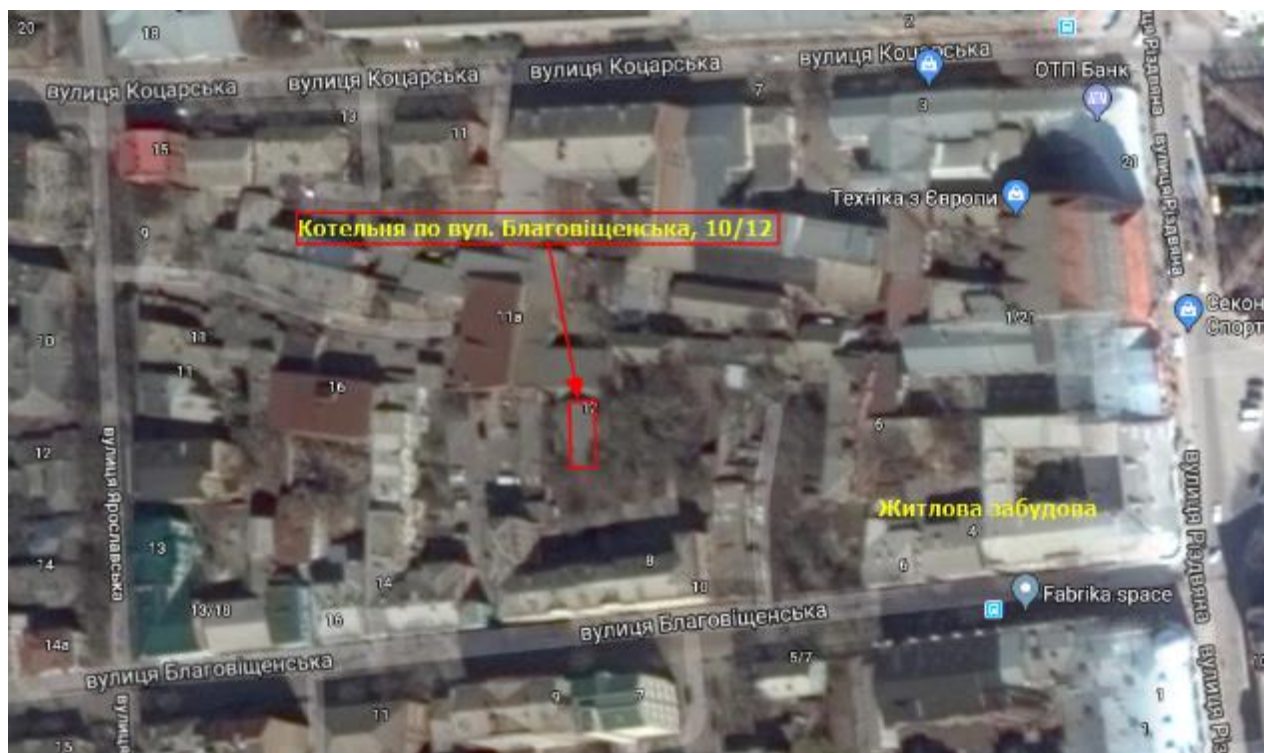
Picture 4.1.3.51.

boiler house on the 74a, Myru str., Industrialnyi dstr., Kharkiv



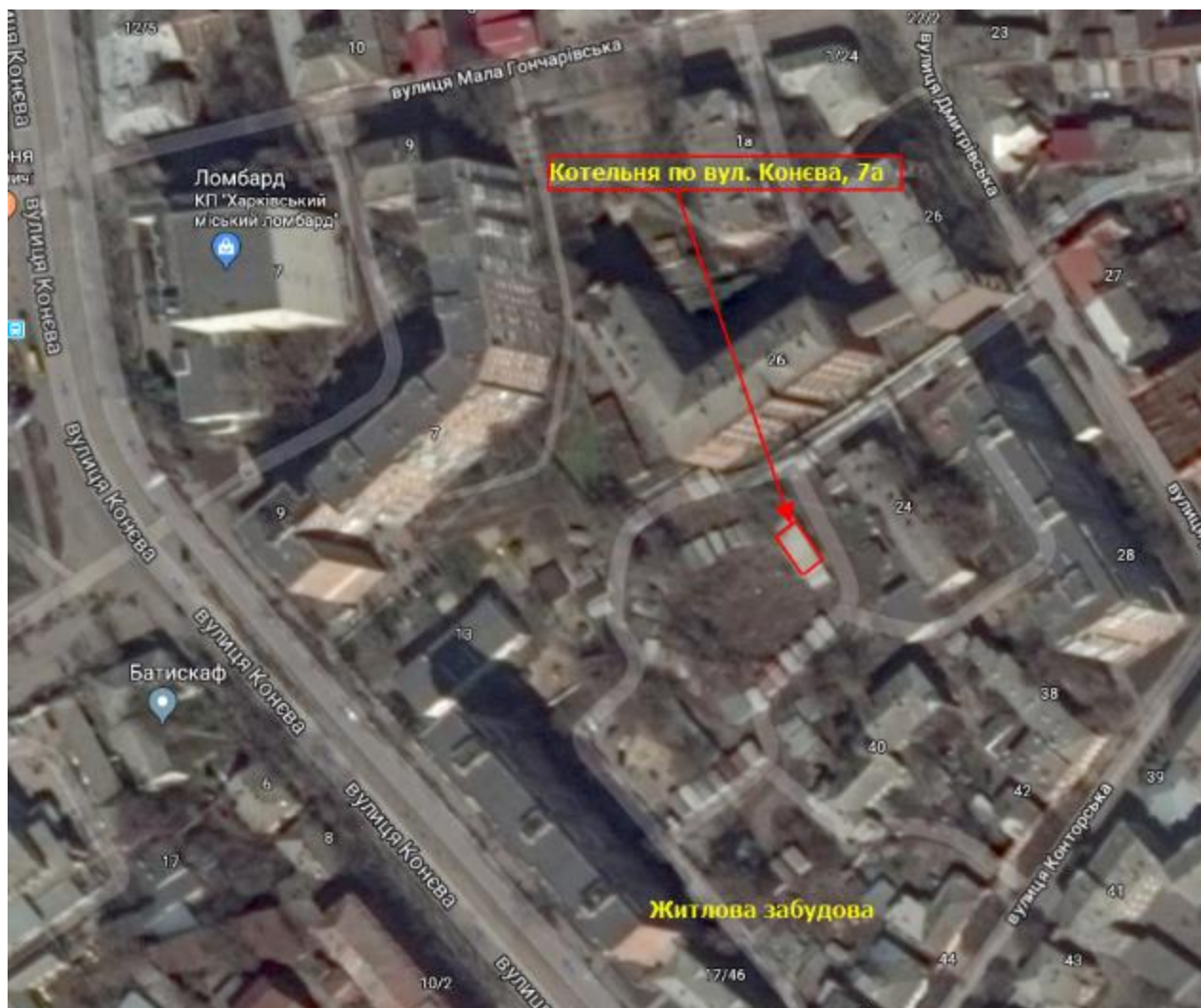
Picture 4.1.3.52.

boiler house on the 10/12, Blahovishchenska str., Kholodnohirskiy dstr., Kharkiv



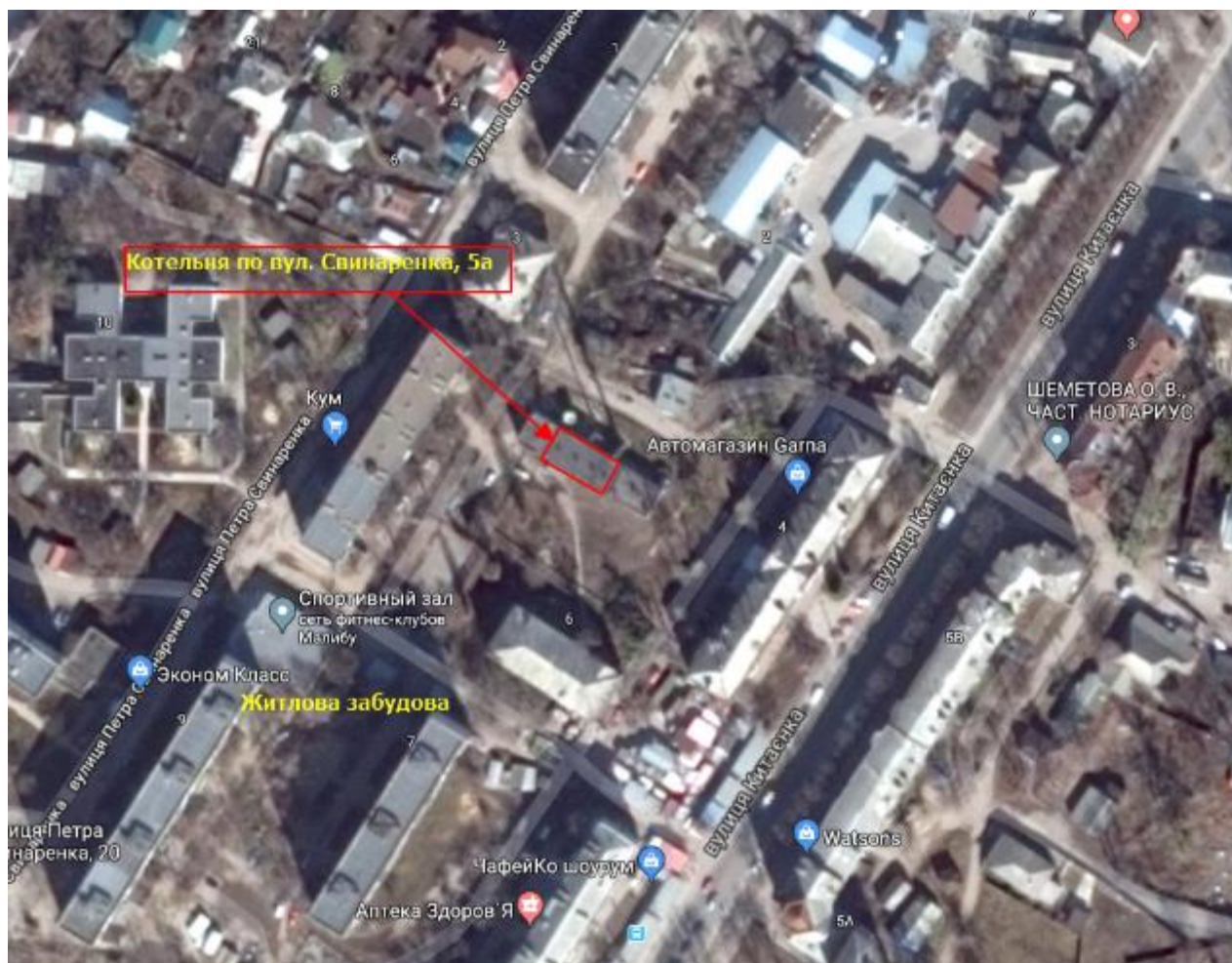
Picture 4.1.3.53.

boiler house on the 7a, Konieva str., Novobavarskyi dstr., Kharkiv



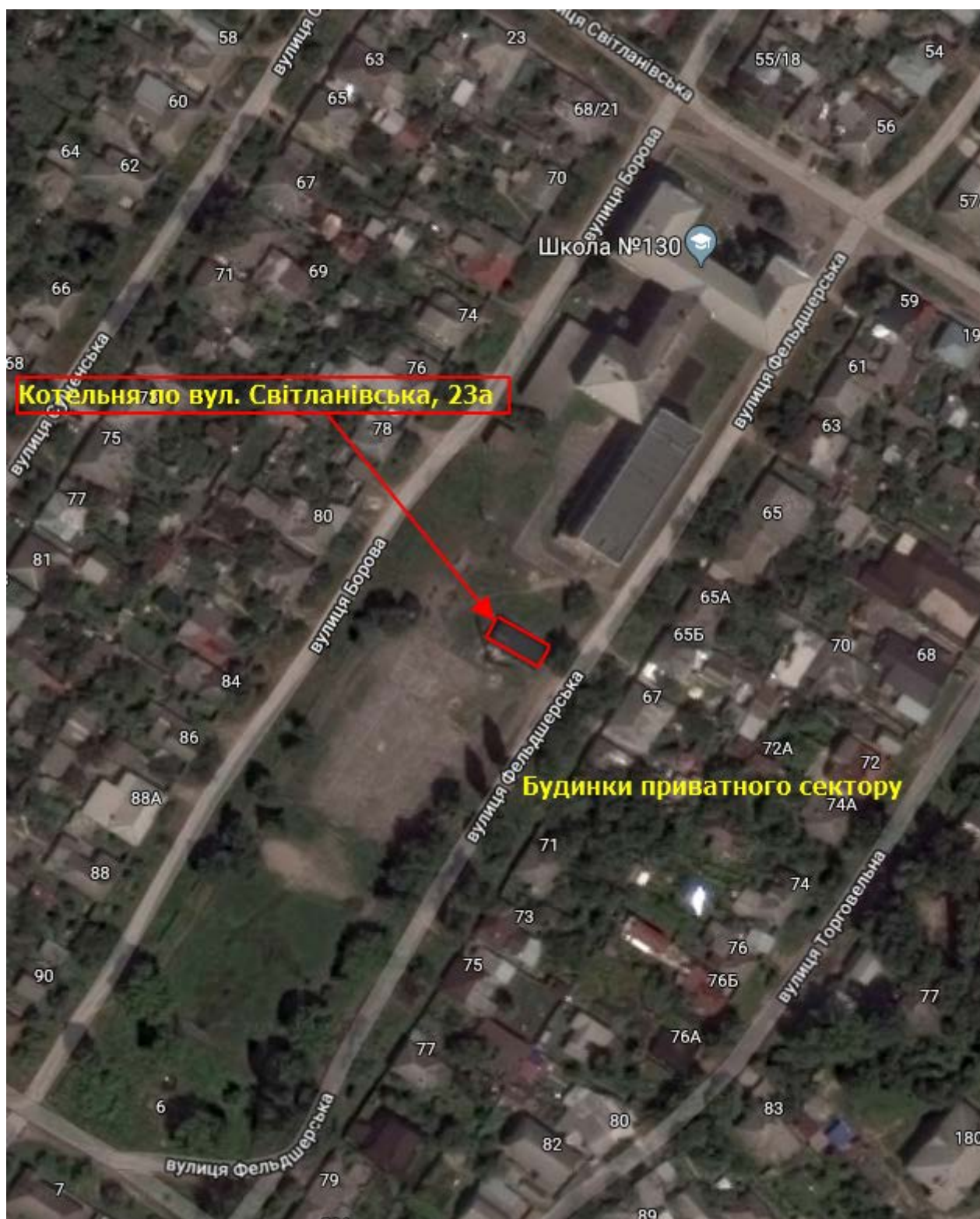
Picture 4.1.3.54.

boiler house on the 5a, Svynarenka, Novobavarskyi dstr., Kharkiv



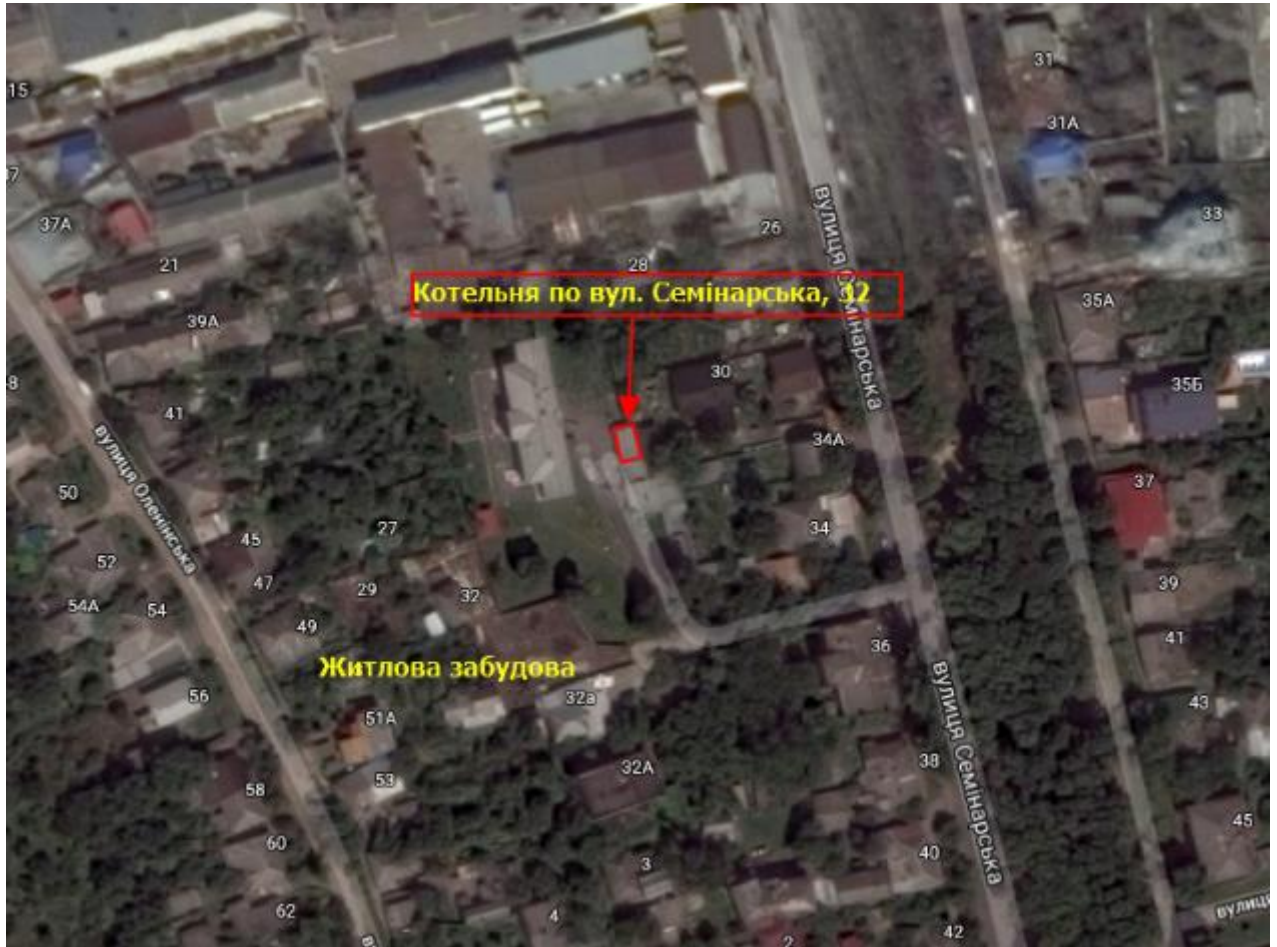
Picture 4.1.3.55.

boiler house on the 23a, Svitlanivska str., Novobavarskyi dstr., Kharkiv



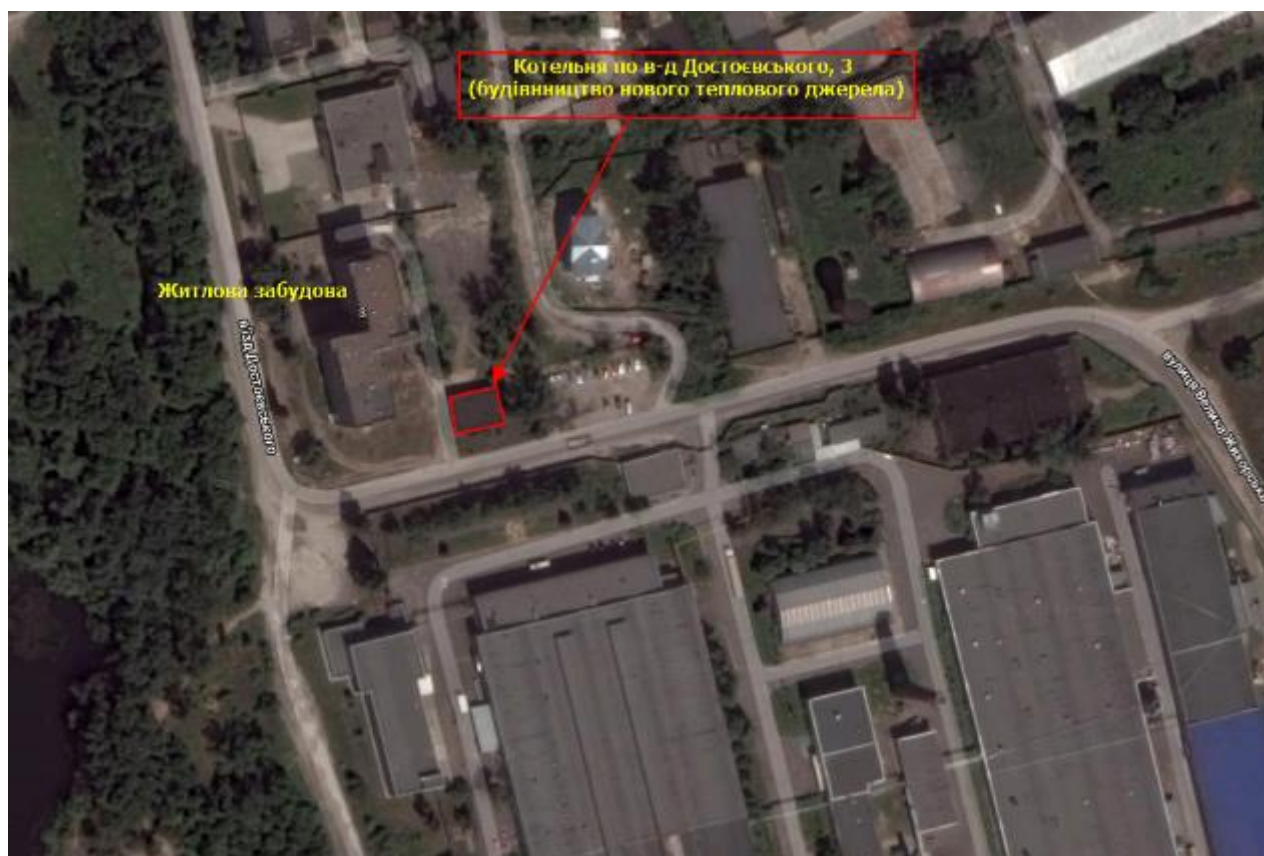
Picture 4.1.3.56

boiler house on the in 32, Seminarska str., Novobavarskyi dstr., Kharkiv



Picture 4.1.3.57.

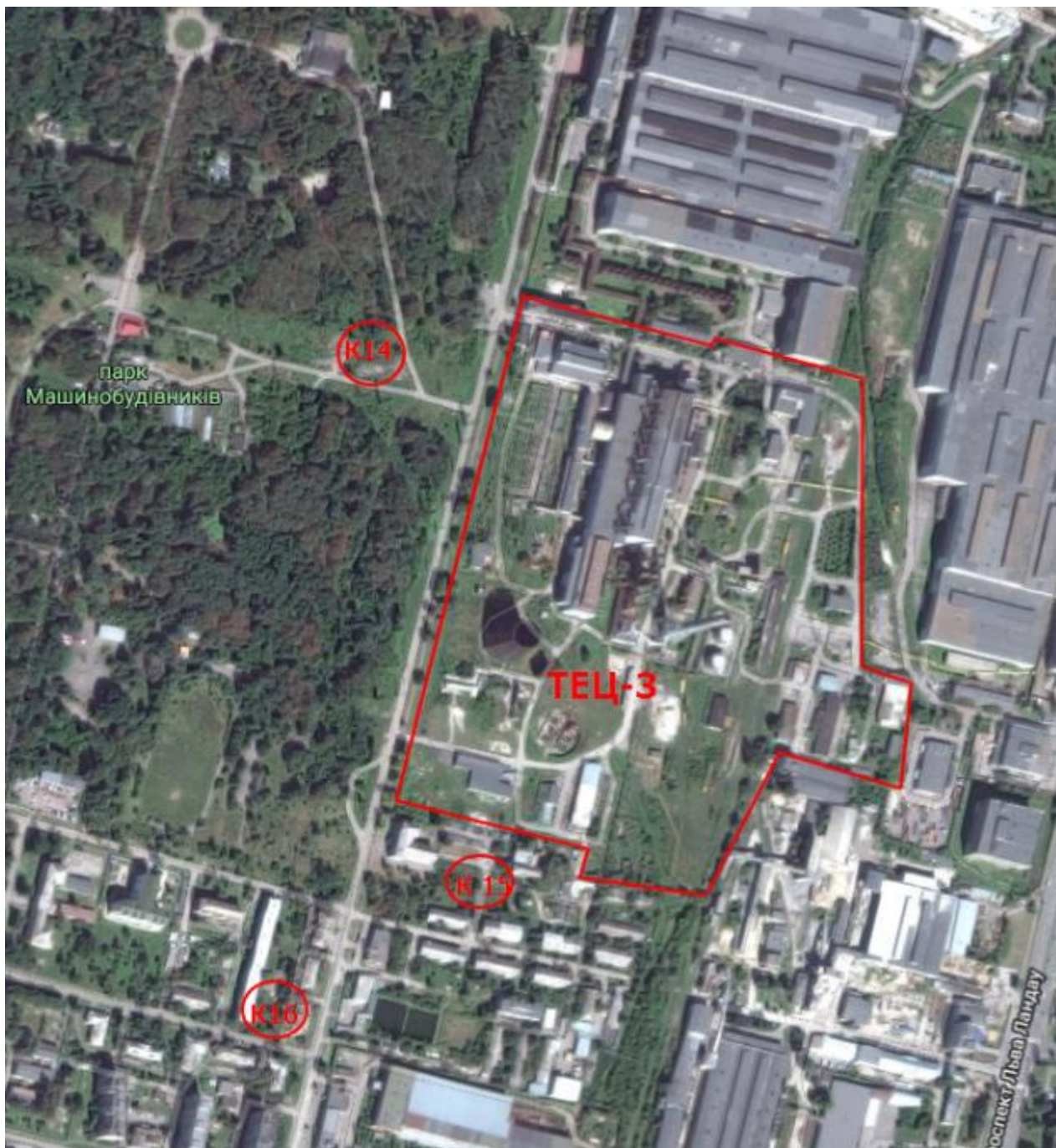
boiler house on the 3, Dostoievskoho entr. (new heat source construction), Osnovianskyi dstr., Kharkiv



Picture 4.1.3.58

Annex 10. Project site layout plan on the component “Commissioning of steam turbogenerator and reconstruction of steam boiler at CHP-3”.

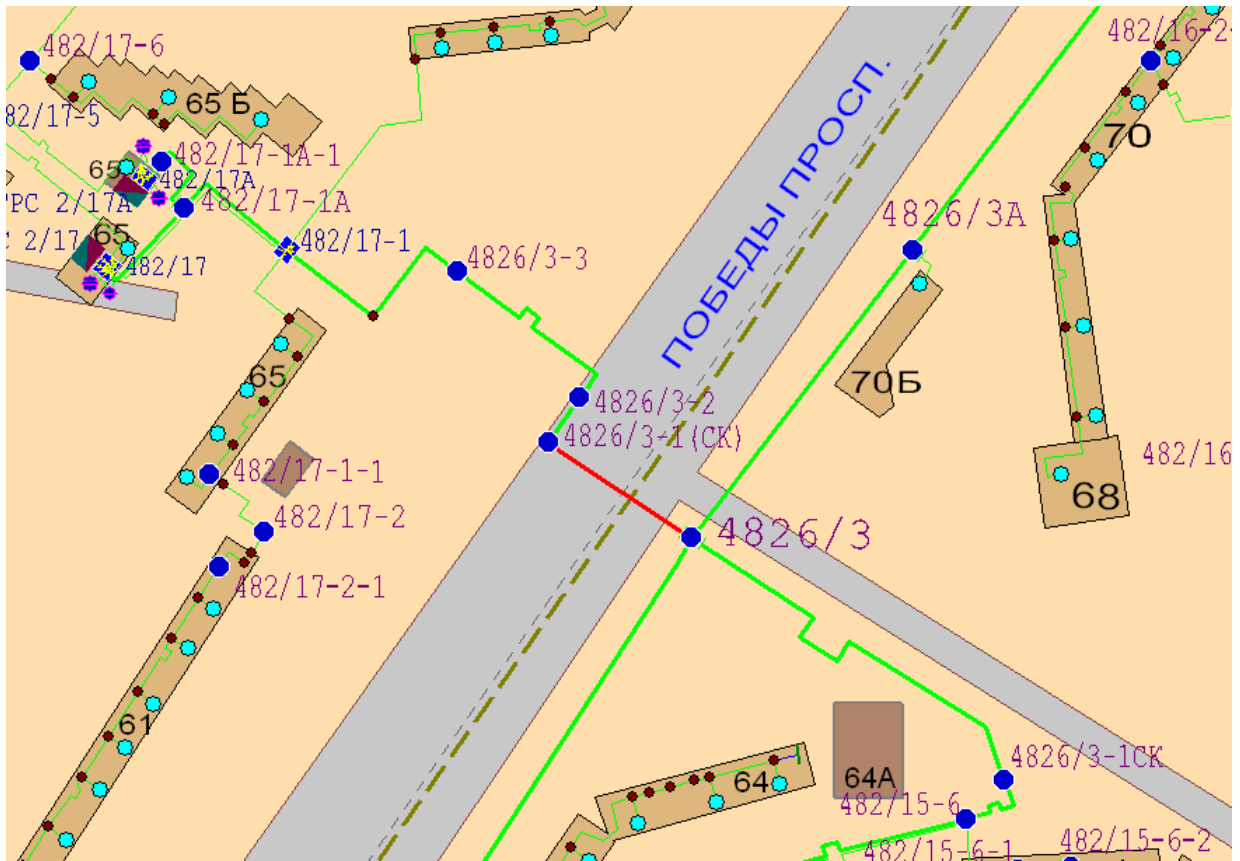
CHP-3 on the 3, Enerhetychna str., Nemyshlianskyi dstr., Kharkiv



Picture 4.1.6.1

Annex 11. Project site layout plans of the component
"Reconstruction of heat networks".

cl.1. Heat networks of the site MK4826 / 3-MK4826 / 3-1CK, Peremohy ave. Shevchenkivskiyi
dstr., Kharkiv



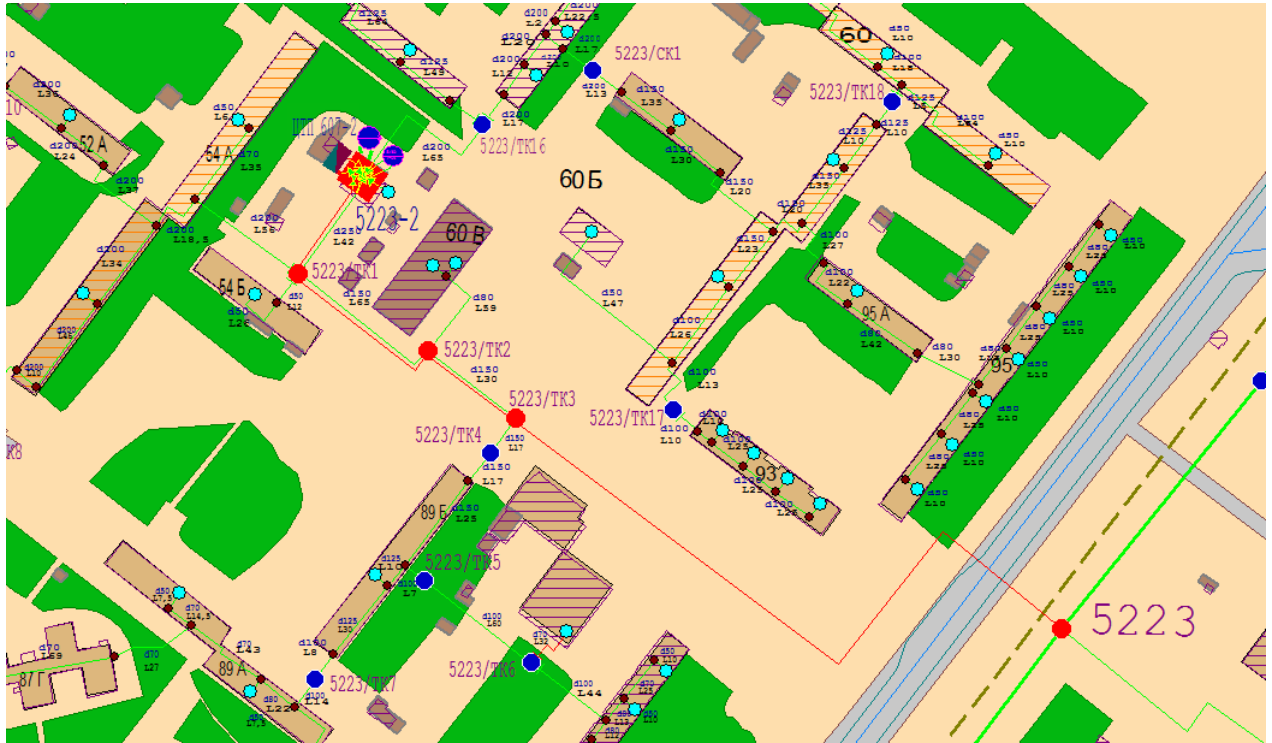
Picture 4.1.8.1

cl.2. Heat networks of the site MK4304-MK4303, Otakara Yarosha str., Shevchenkiyskiy dstr., Kharkiv



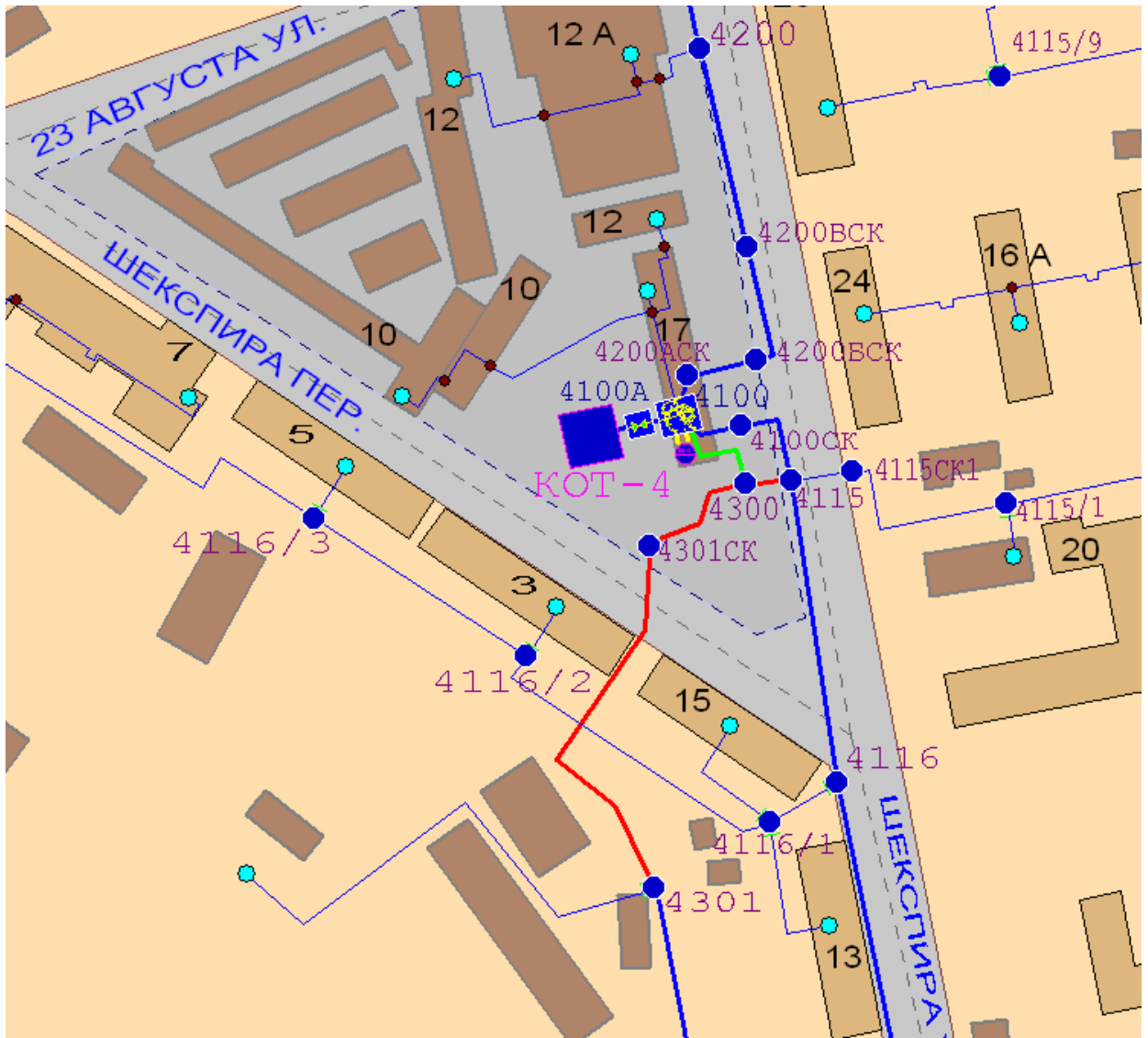
Picture 4.1.8.2

cl.3 Heat networks of the site MK5223 before CHS 607/2 Heroiv Pratsi str., 54G



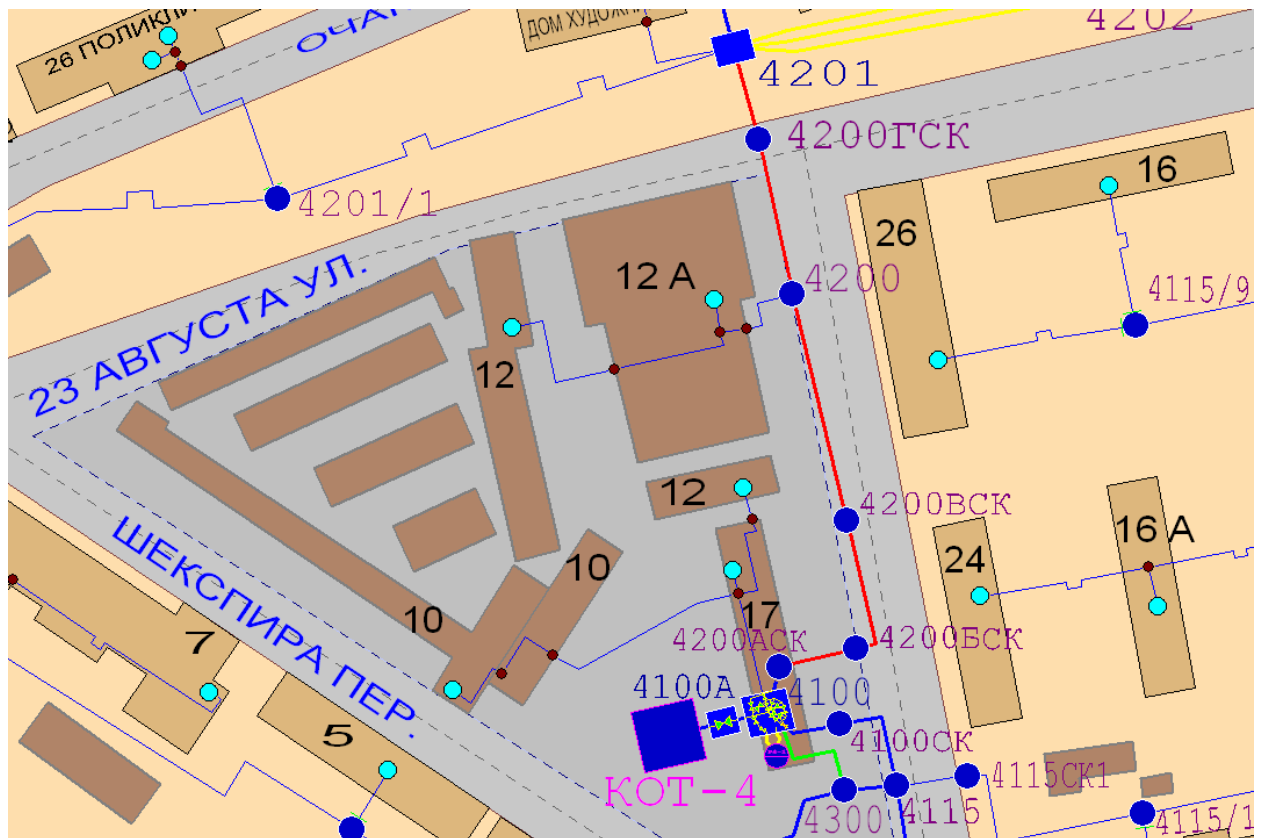
Picture 4.1.8.3

cl.4. Heat networks of the site MK4115-MK4301, Shekspira str., Shevchenkivskiy dstr., Kharkiv



Picture 4.1.8.4

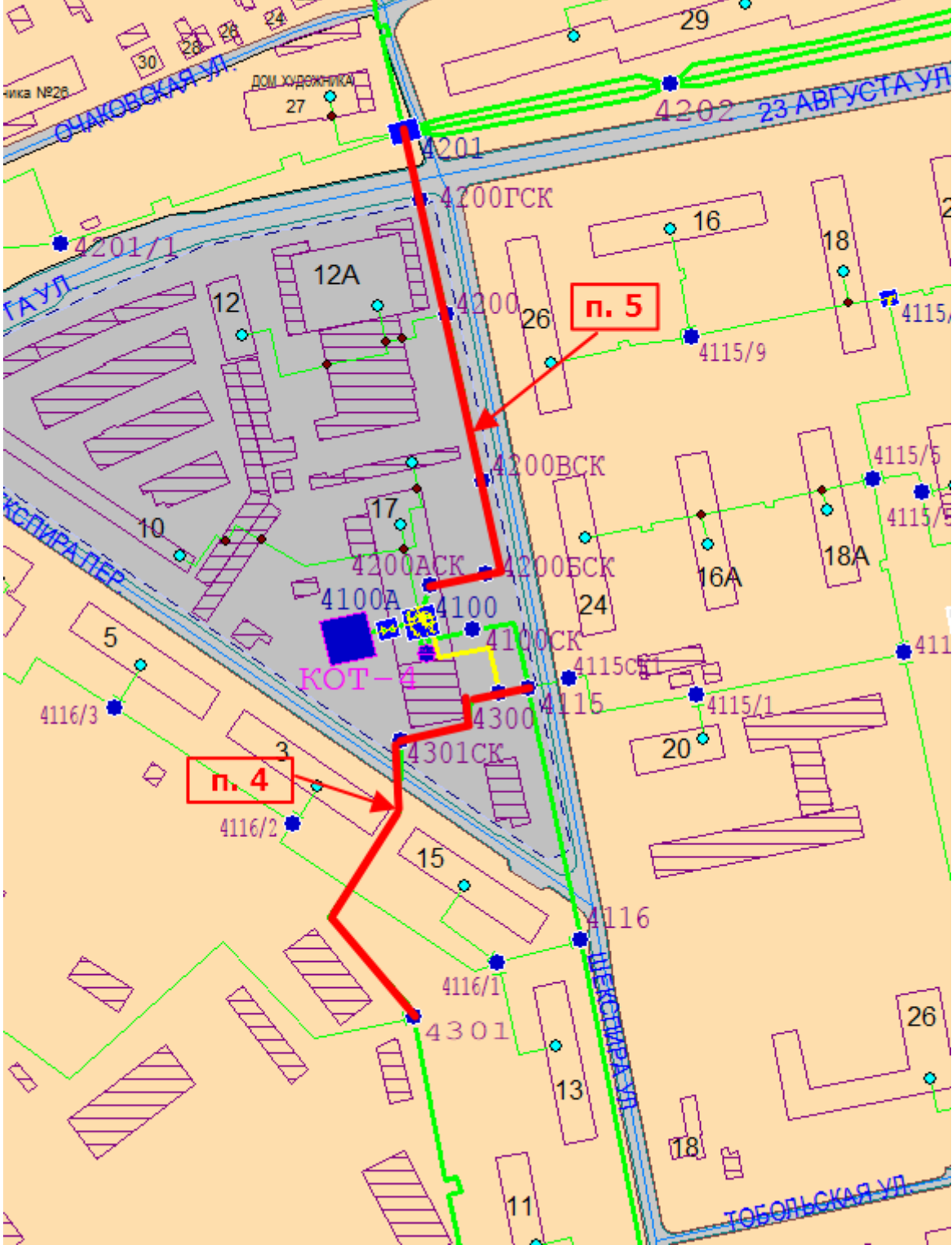
cl.5. Heat networks of the site MK4200ACK-MK4201, Shekspira str. (output No.2 of boiler house Pavlove pole str. on 17, Shekspira str.), Shevchenkivskyi distr., Kharkiv



Picture 4.1.8.5

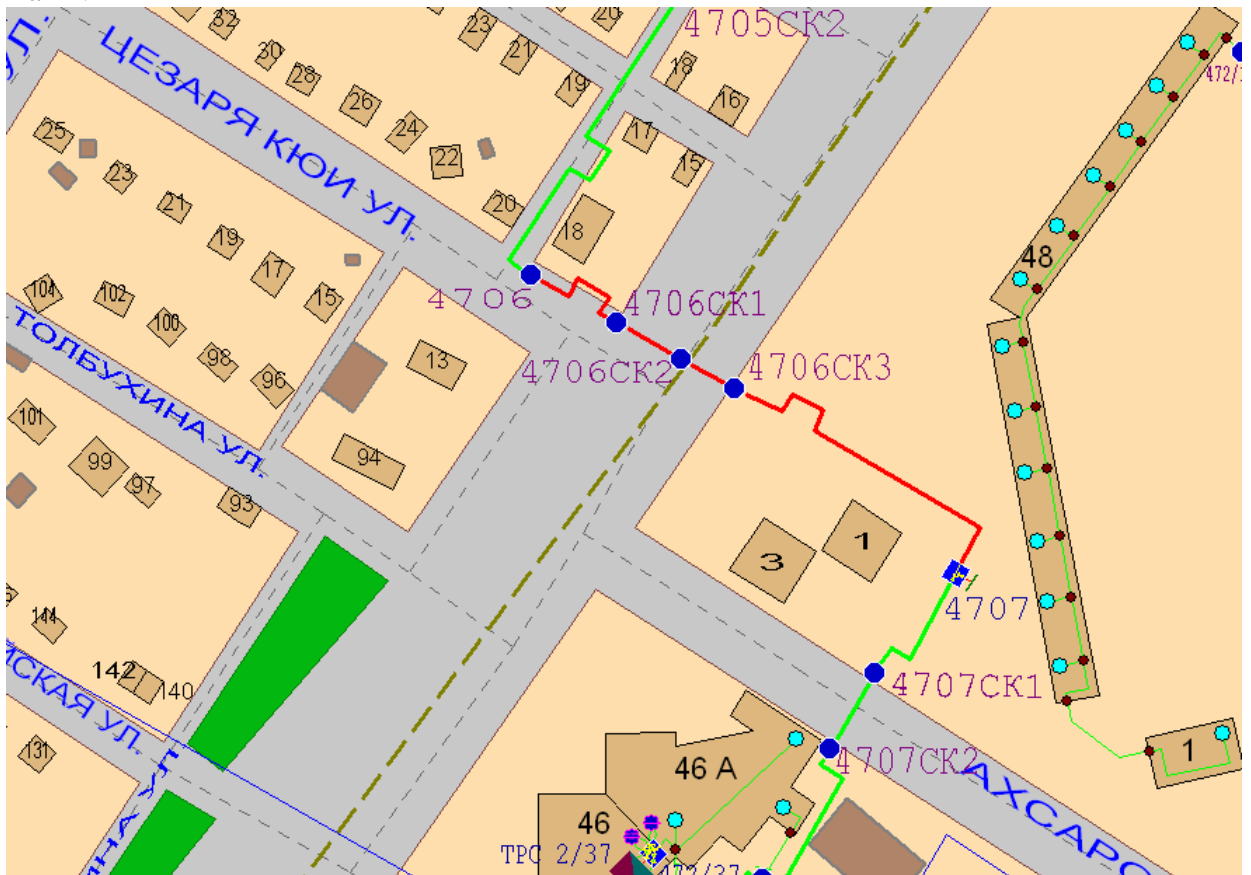
Picture 4.1.8.65

cl.4. Heat networks of the site MK4115-MK4301,
 cl.5. Heat networks of the site MK4200ACK-MK4201, Shekspira str. (output No.2 boiler house Pavlove pole str. in 17, Shekspira str.).



Picture 4.1.8.65

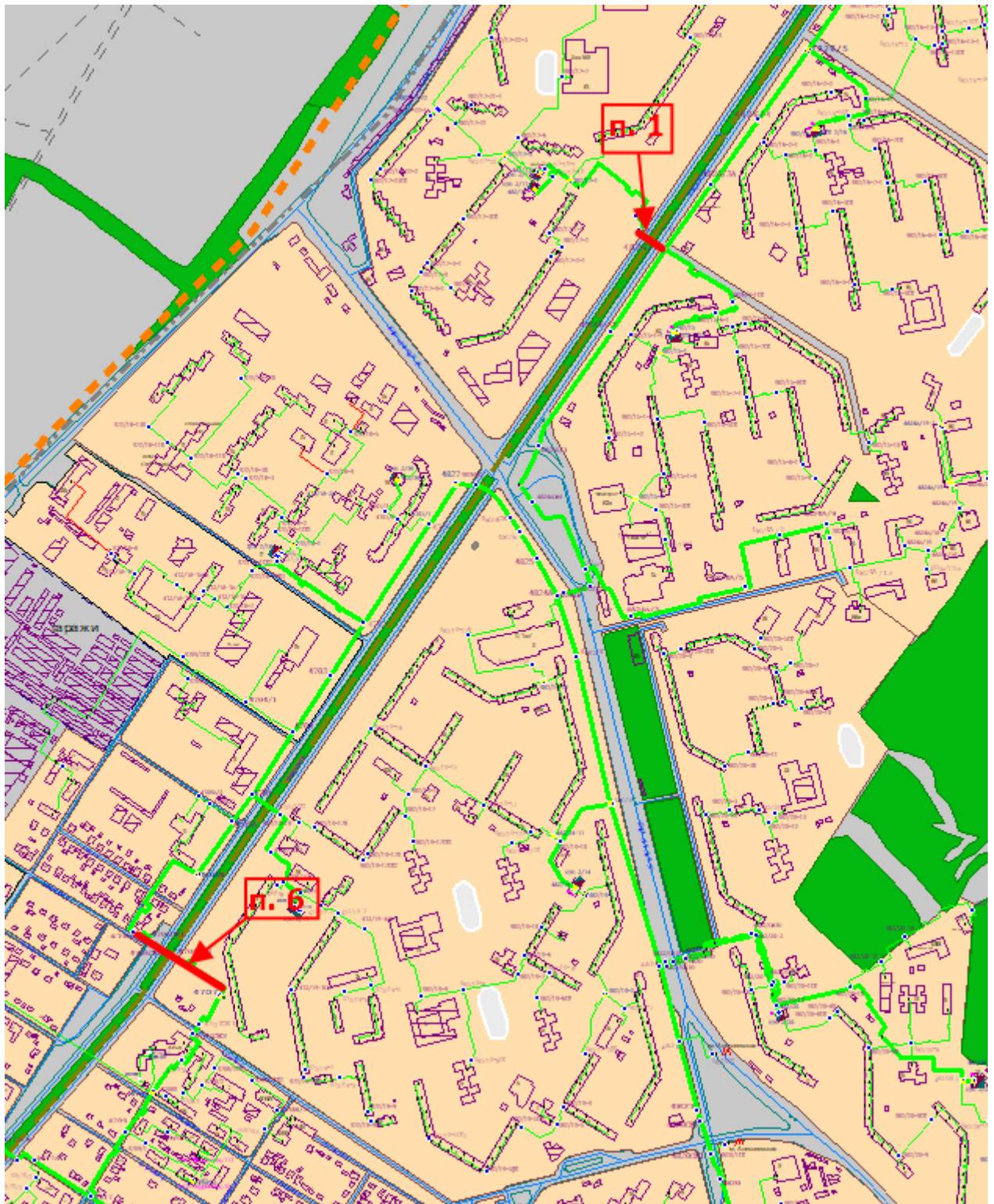
cl.6. Heating networks of the site MK 4706-MK 4707, Peremohy ave. Shevchenkovskiyi dstr., Kharkiv



Picture 4.1.8.6

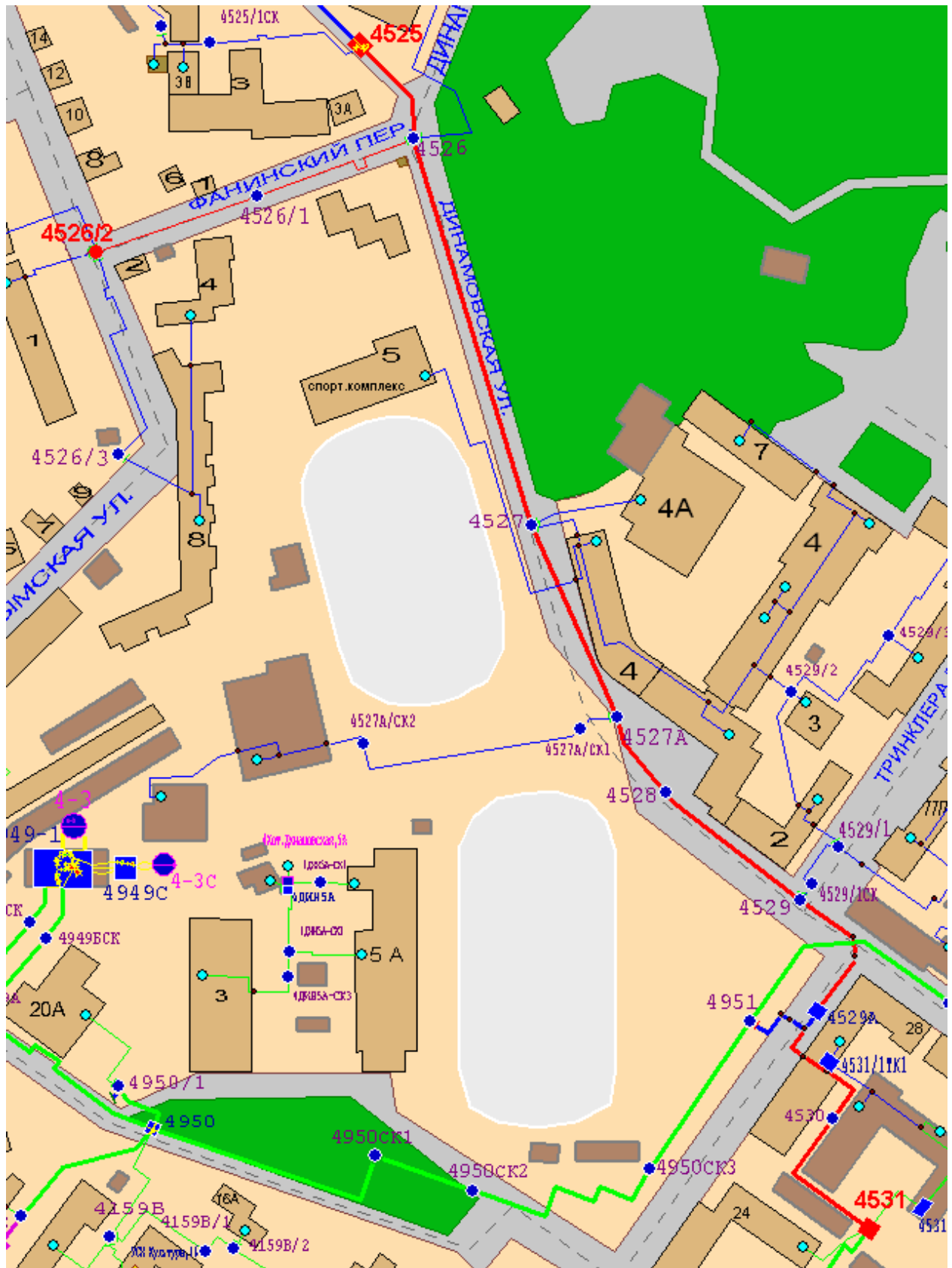
Picture 4.1.8.66.

cl.1. Heat networks of the site MK4826/3-MK4826/3-1CK,
cl.6. Heating networks of the site MK4706-MK4707, Peremohy ave.



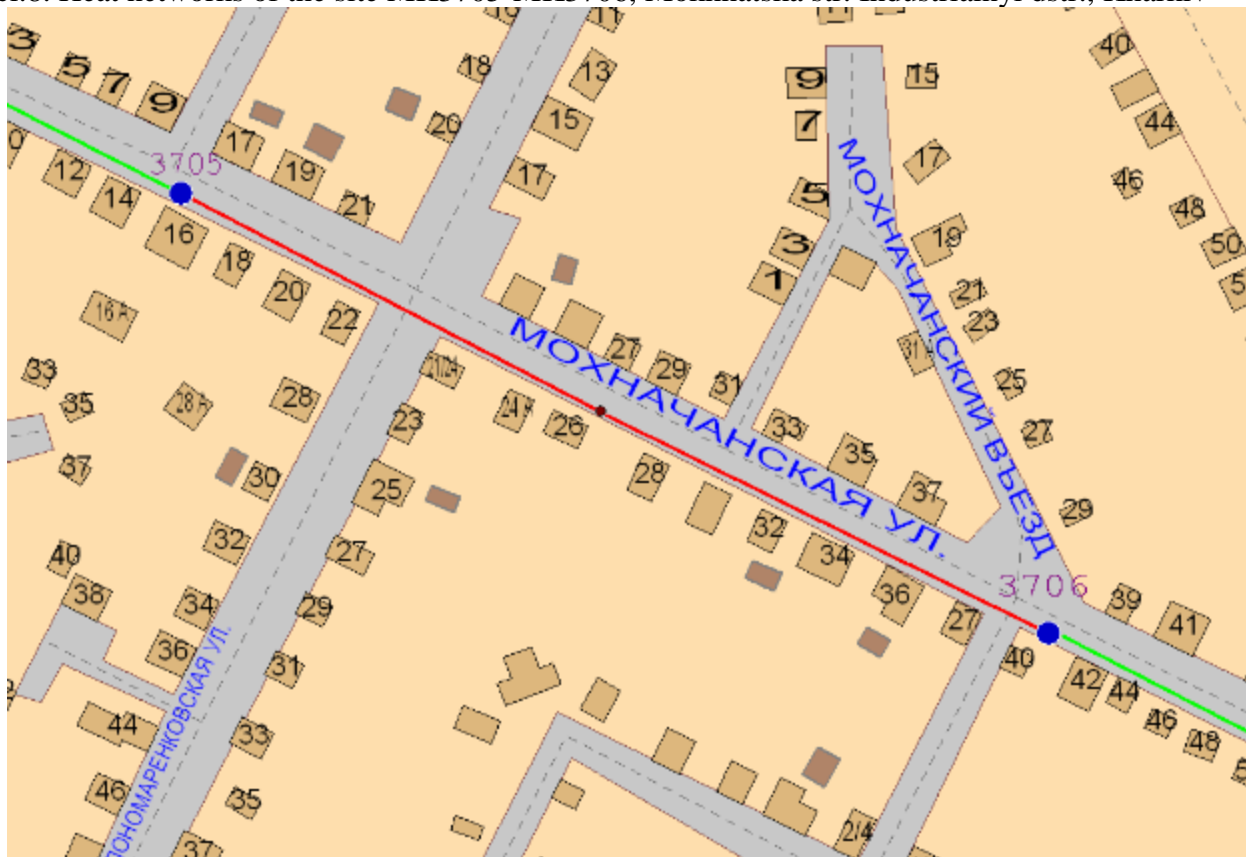
Picture 4.1.8.66.

cl.7. Heat networks of the cite MK4525-MK4531, MK4526-MK4526/2, Dynamivska str., Faninsky lane, Shevchenkovskiy dstr., Kharkiv



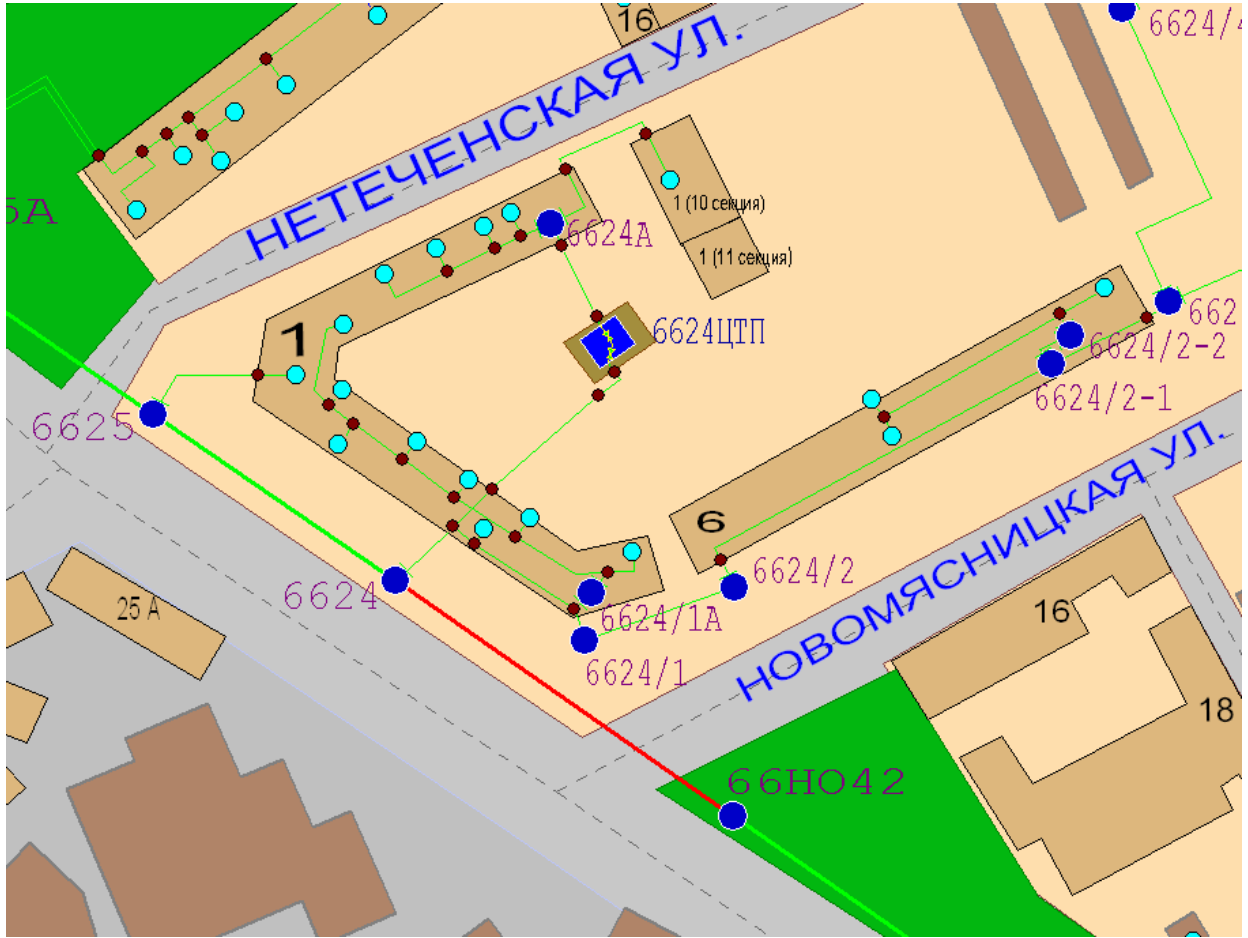
Picture 4.1.8.7

cl.8. Heat networks of the site MK3705-MK3706, Mokhnatska str. Industrialnyi dstr., Kharkiv



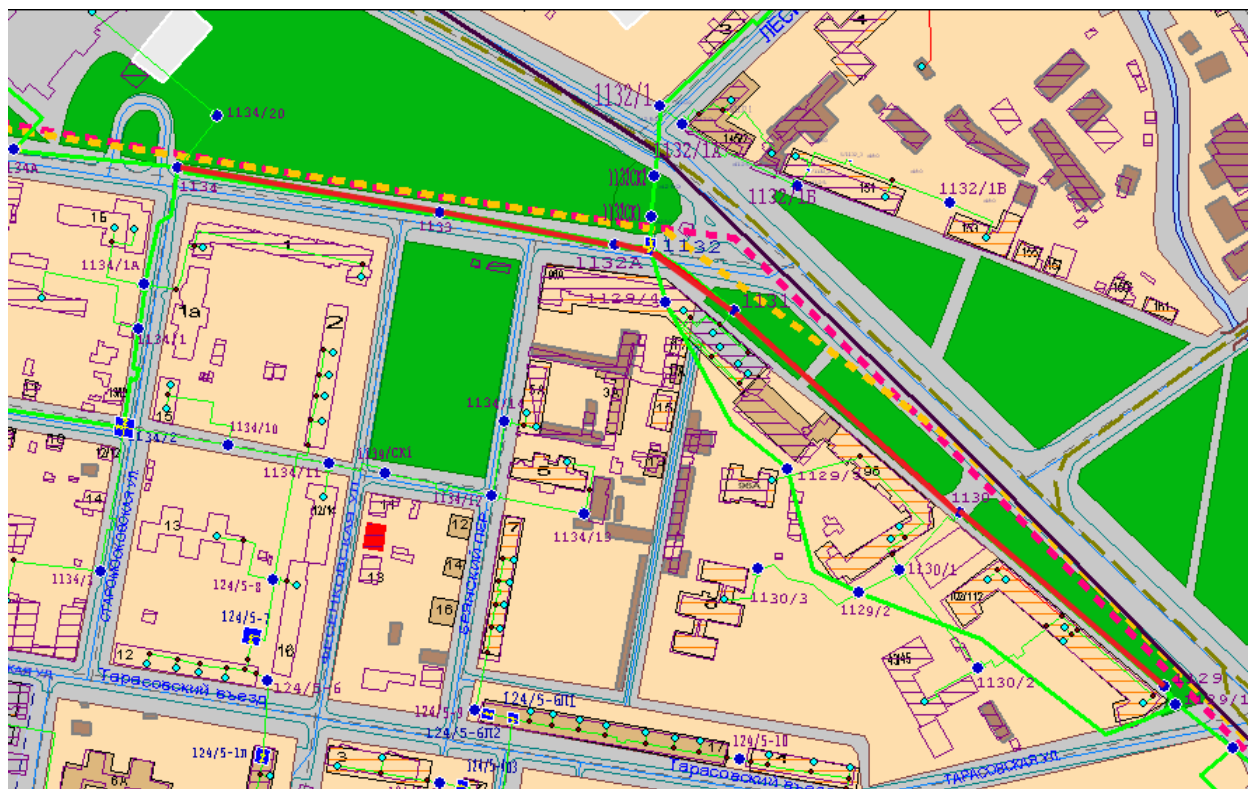
Picture 4.1.8.8

cl.9. Heat networks of the site МК6624-МК66НО42, Naharina ave., Osnovianskyi dstr., Kharkiv



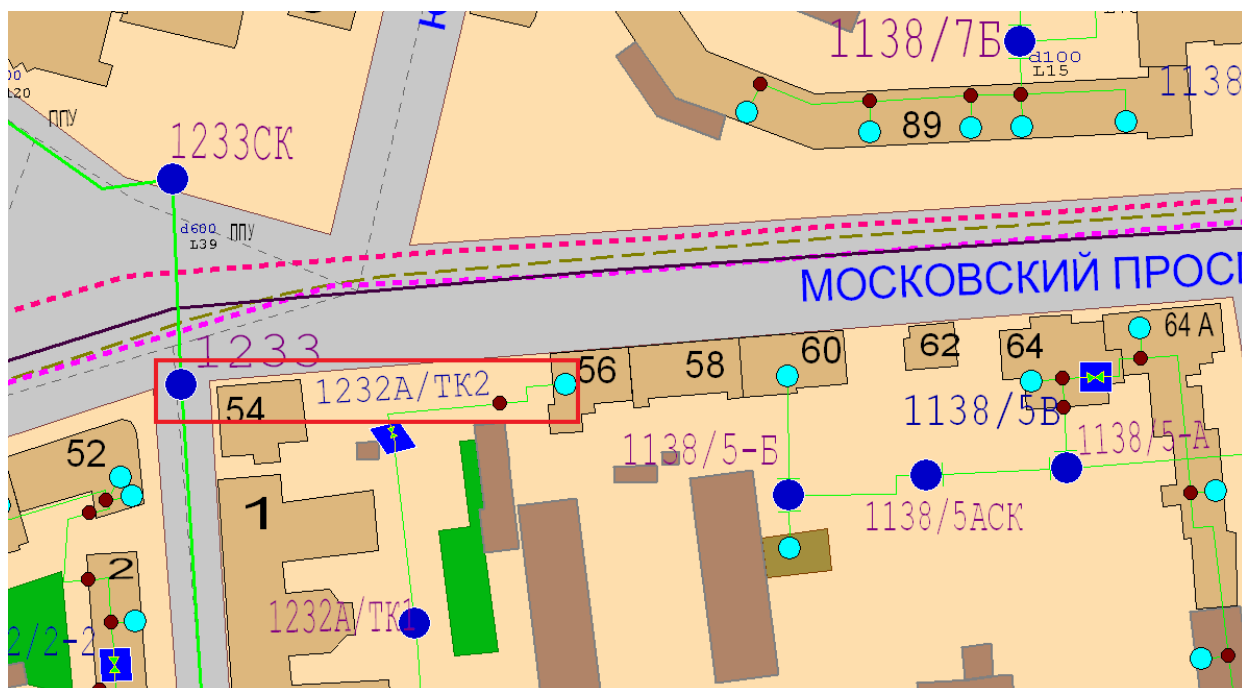
Picture 4.1.8.9

cl.10. Heat networks of the site MK1129-MK1134, Bronenostsia Potomkin str., Slobidskyi dstr., Kharkiv



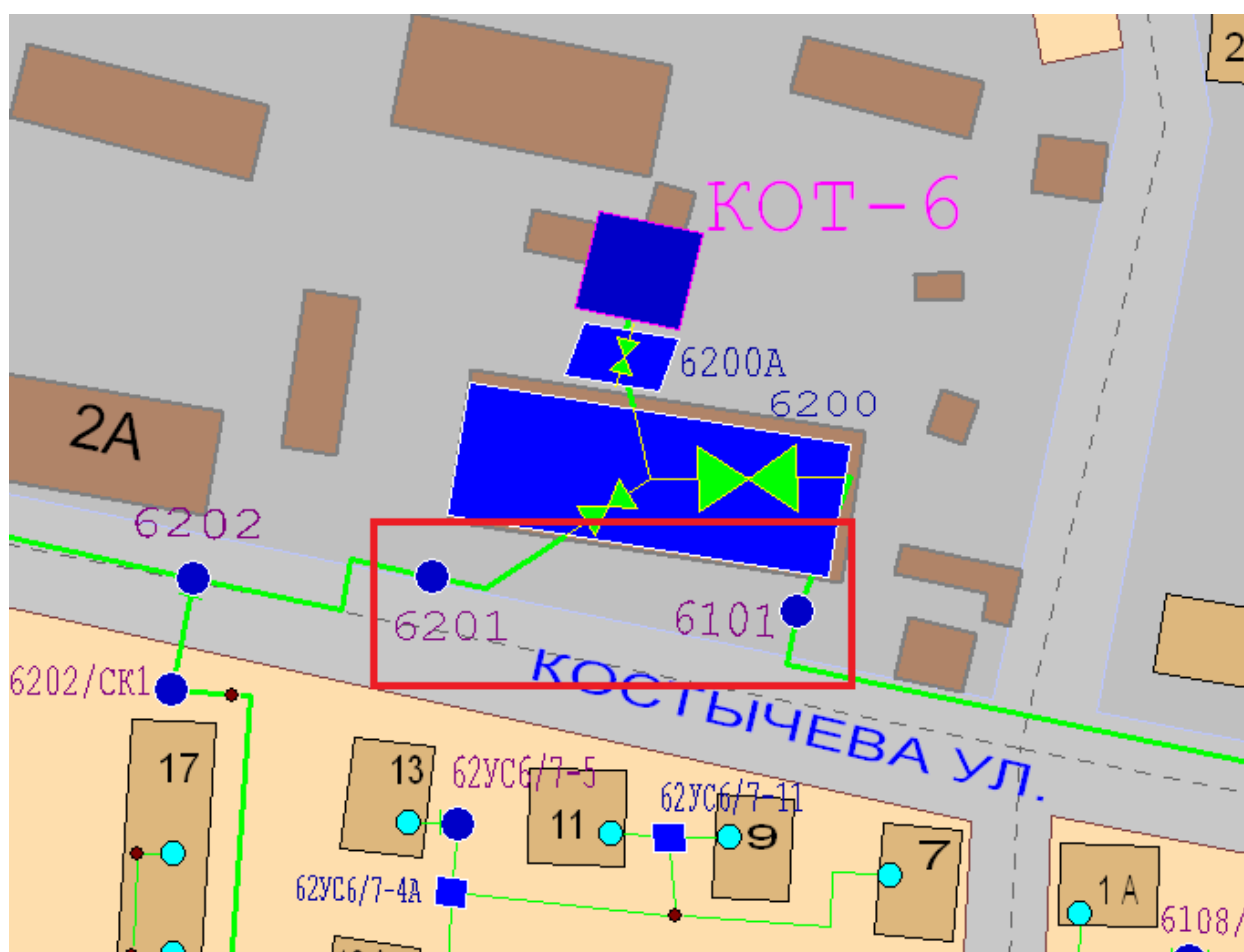
Picture 4.1.8.10

cl.11. Heat networks of the site from MK1233 to zh/b on 56, Moskovskiy ave., Osnovianskiy dstr., Kharkiv



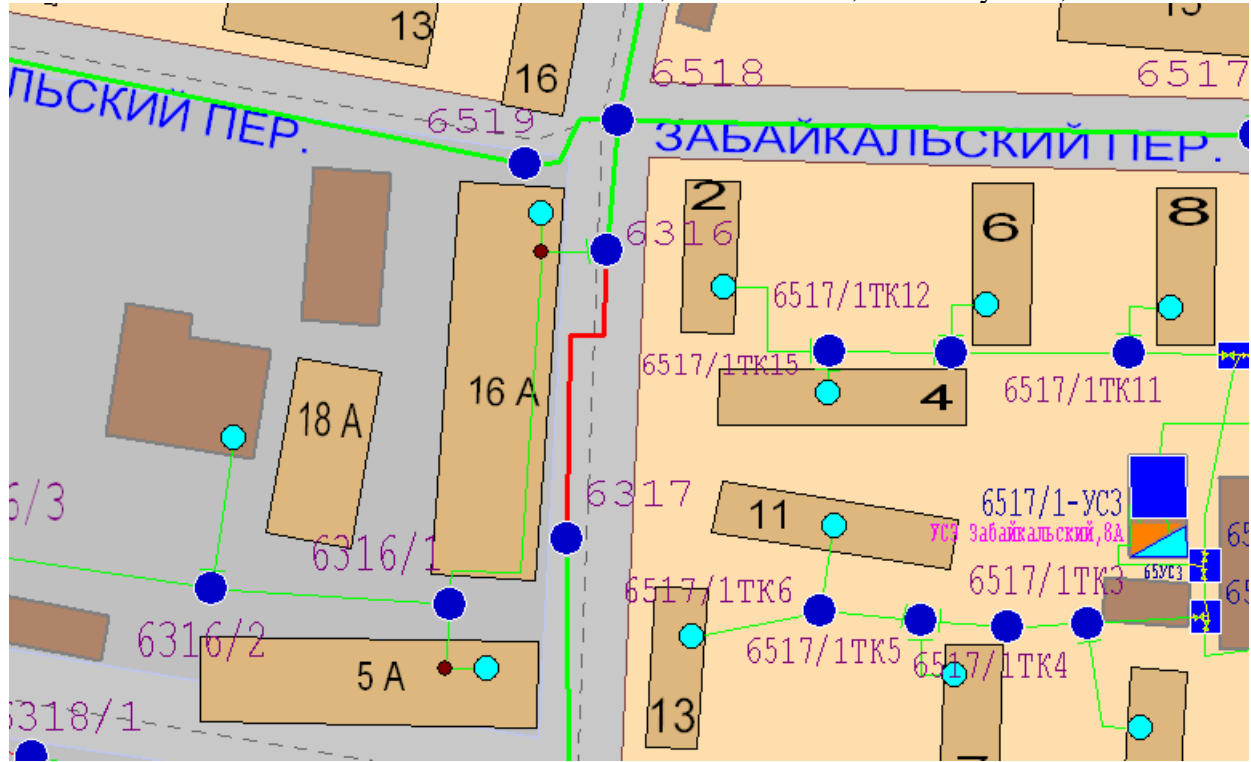
Picture 4.1.8.11

cl.12. Jumper between terminals No.1 and No.2 boiler house of Slobidskyi dstr. on 2/1, Kostycheva str., Slobidskyi dstr., Kharkiv



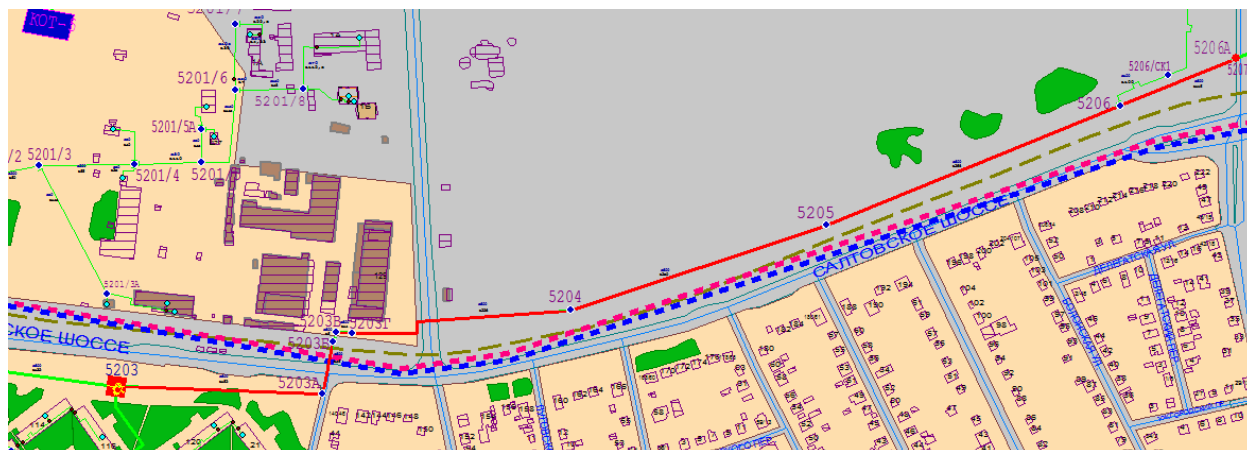
Picture 4.1.8.12

cl.13. Heat networks of the site MK6316-MK6317, Fonvizina str., Slobidskyi dstr, Kharkiv



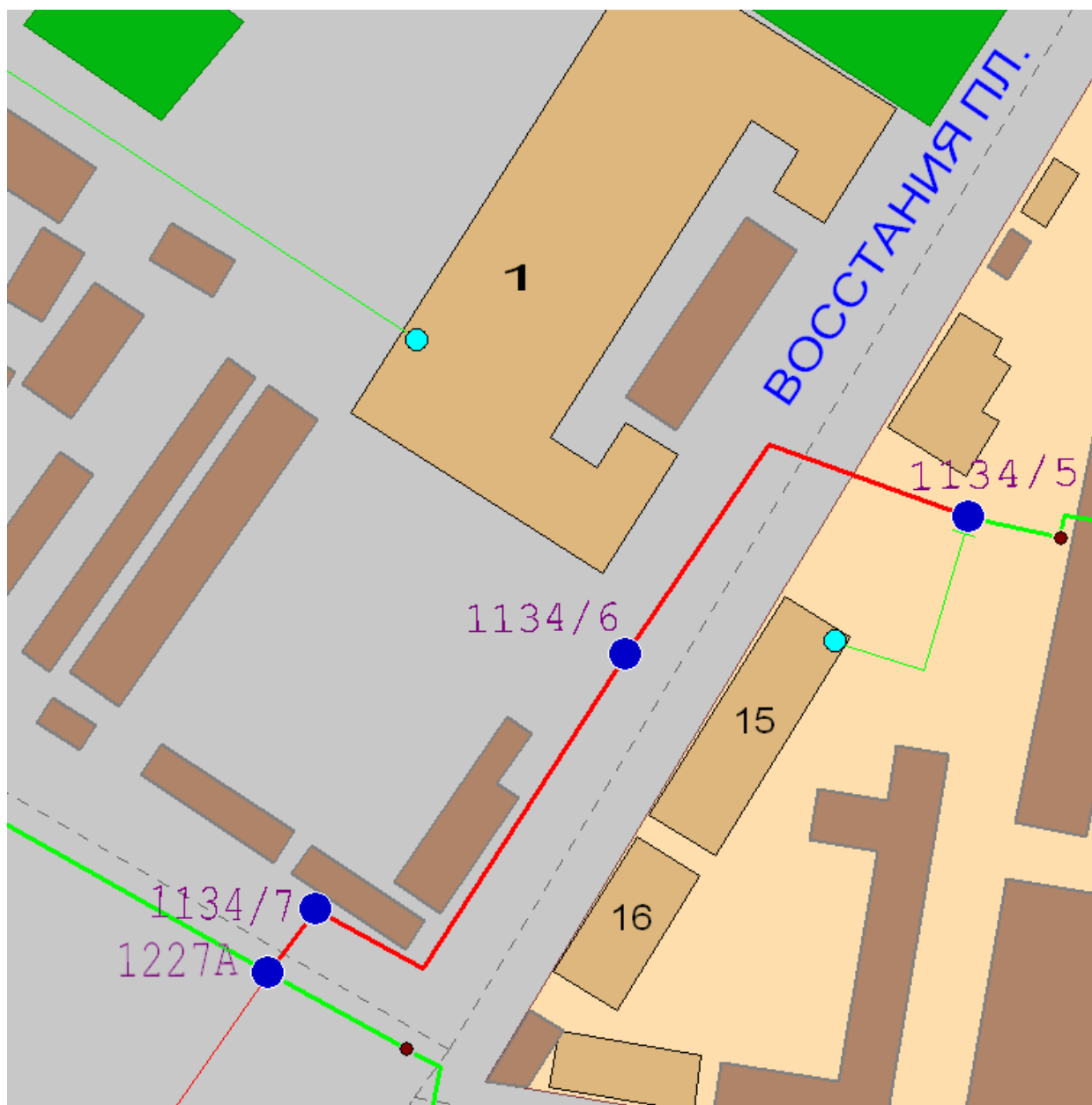
Picture 4.1.8.13

cl.14. Heat networks of the site MK5203-MK5206A, Saltivske highway, Moskovskiy dstr., Kharkiv



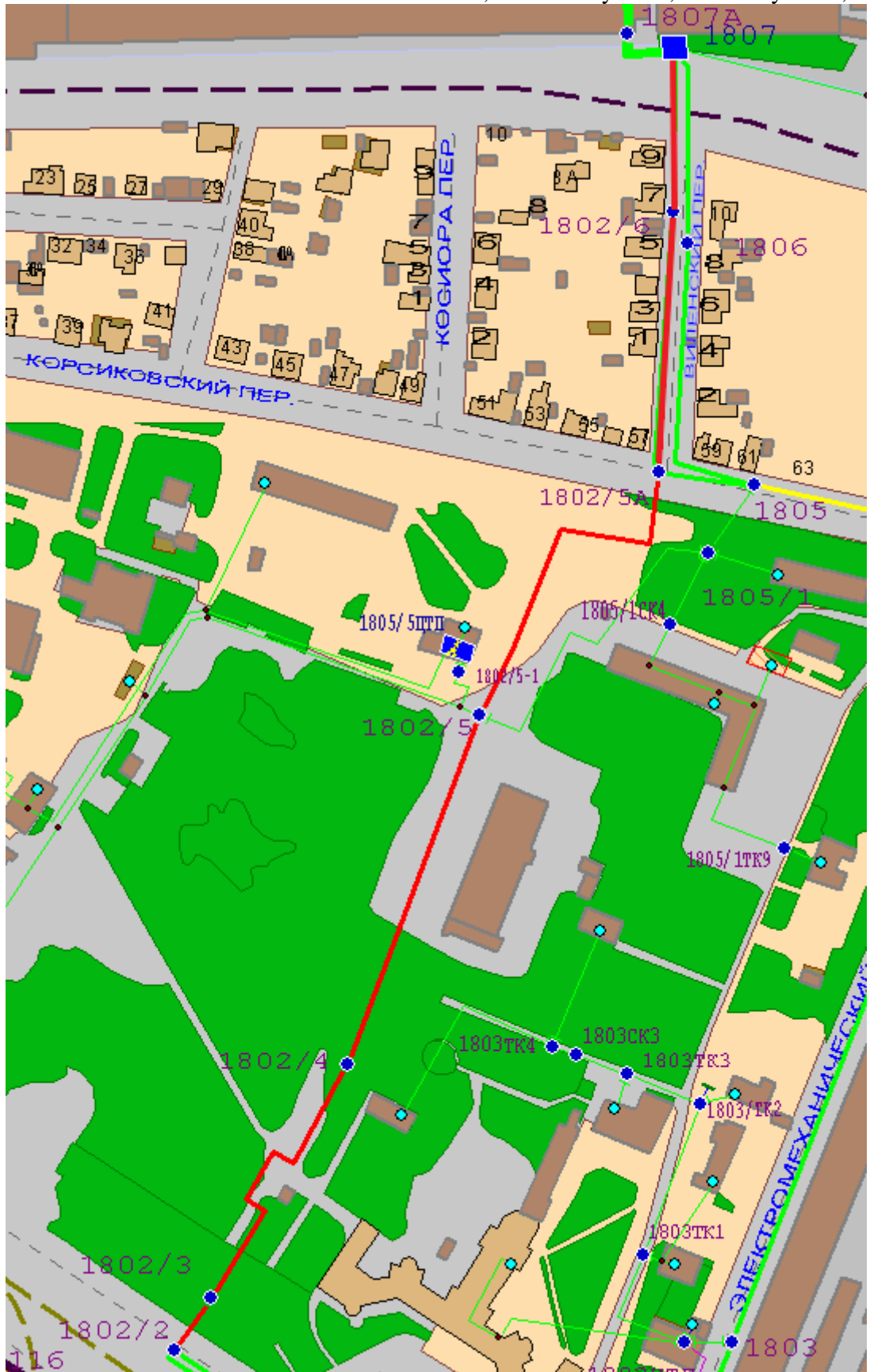
Picture 4.1.8.14

cl.15. Heat networks of the site MK1134/5-MK1227A, Zakhisnykiv Ukrainy sqr., Slobidskyi dstr., Kharkiv



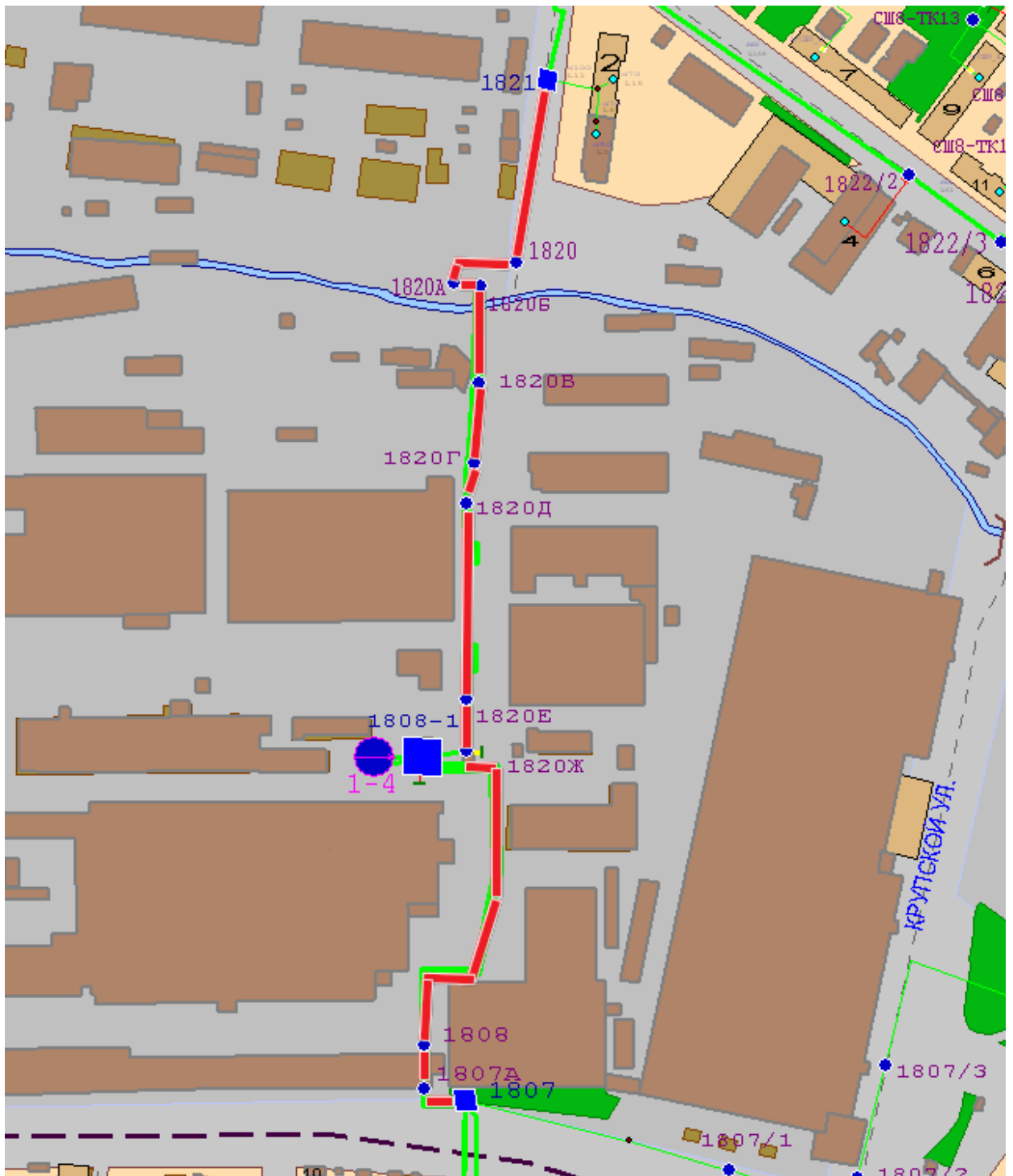
Picture 4.1.8.15

cl.16. Heat networks of the site MK1802 / 2-MK1807, Moskovskiy ave., Slobidskiy dstr., Kharkiv



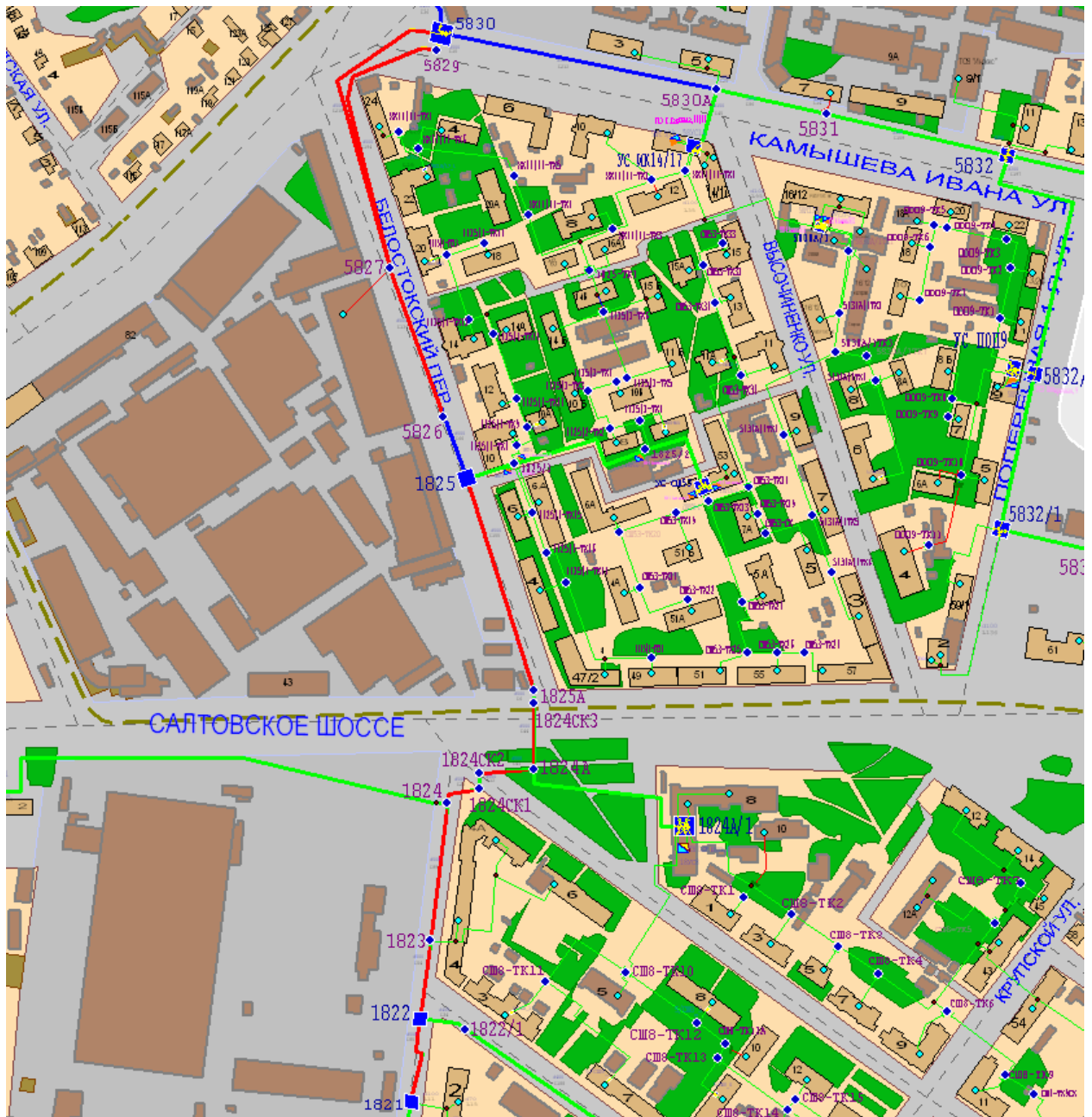
Picture 4.1.8.16

cl.17. Heat networks of the site MK1807-MK1821, Vilenskyi lane, Slobidskyi dstr., Kharkiv



Picture 4.1.8.17

cl.18. Heat networks of the site MK1821 to MK5830, Bilostotskyi lane, Moskovskiy dstr., Kharkiv



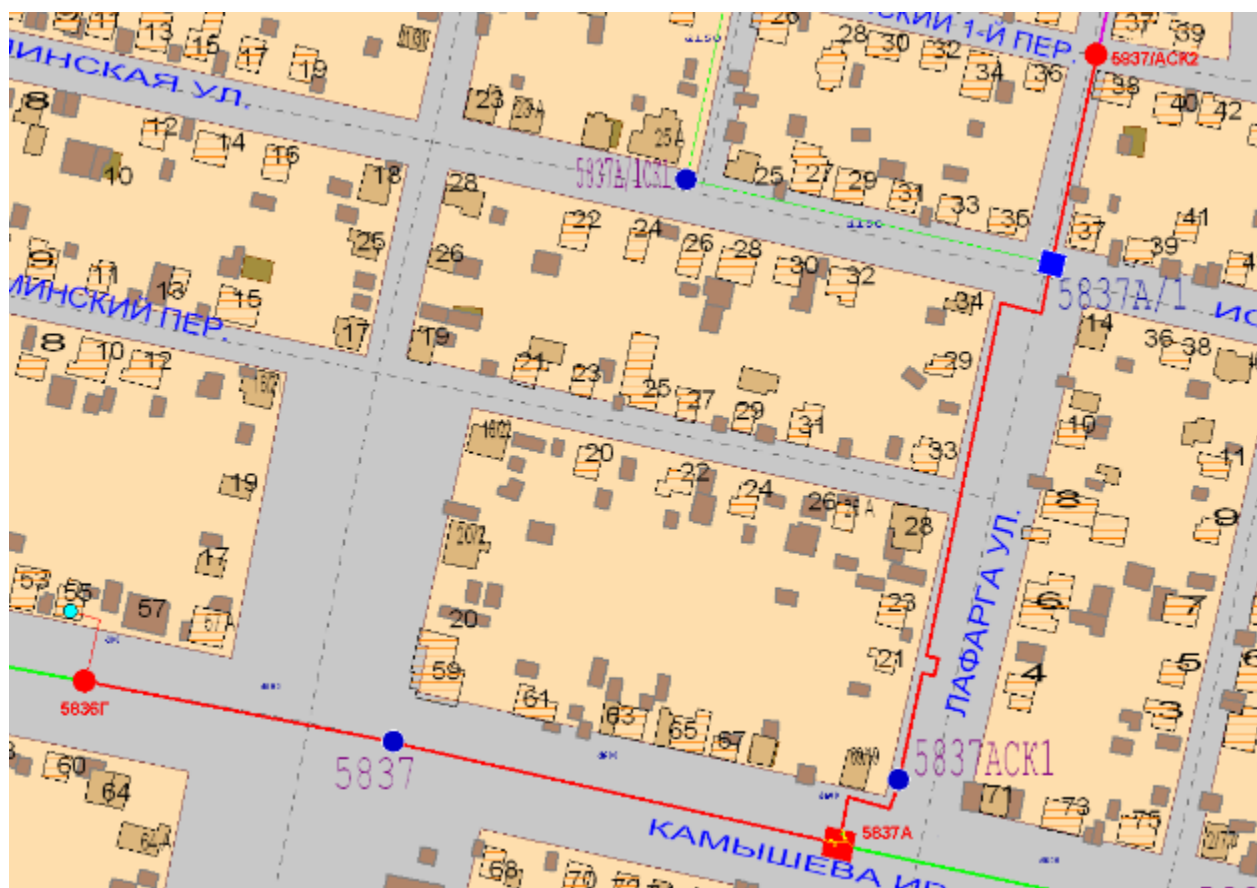
Picture 4.1.8.18

cl.19. Heat networks of the site MK5830-MK5836B, Kamysheva Ivana str., Moskovskiy dstr., Kharkiv



Picture 4.1.8.19

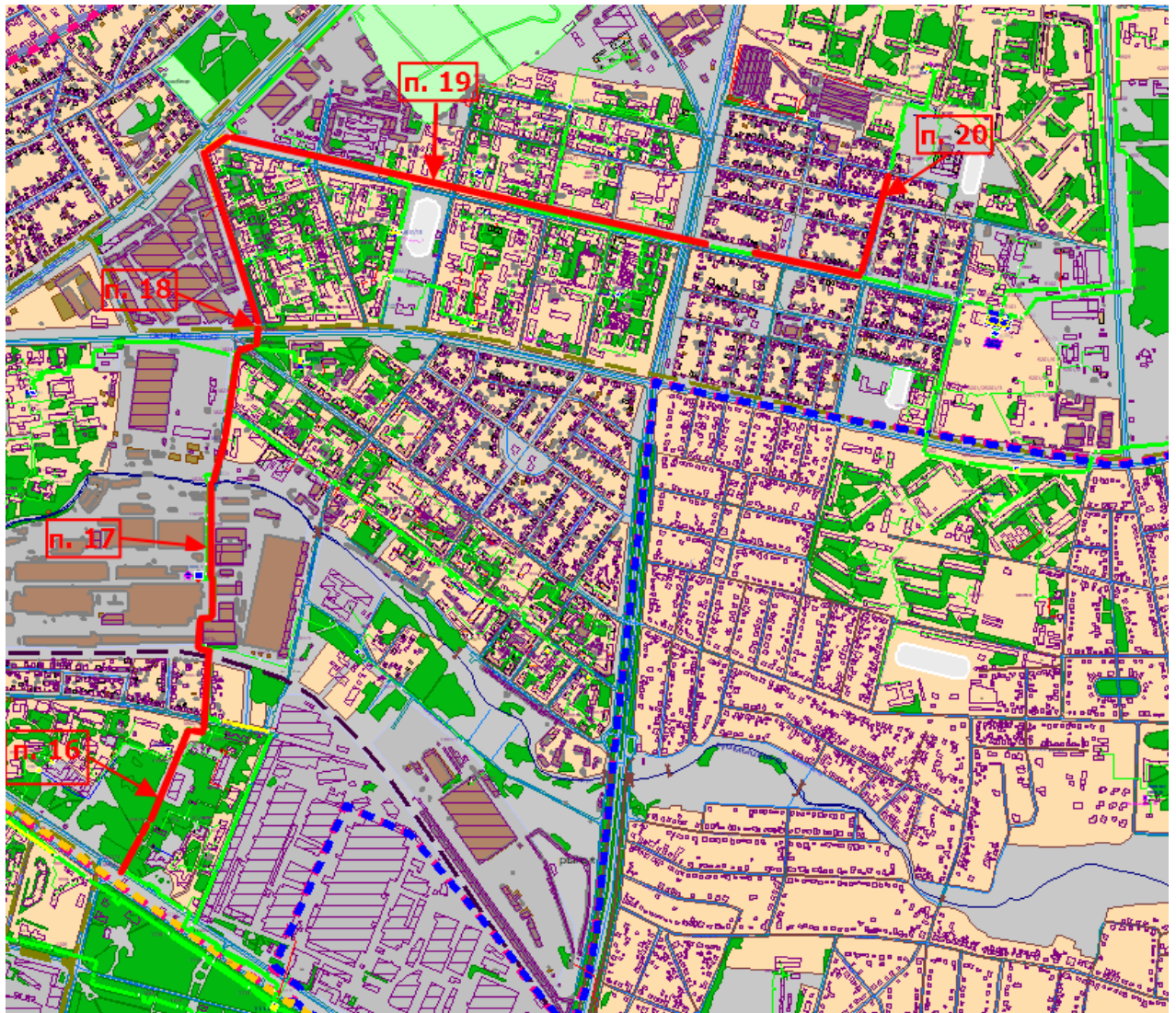
cl.20. Heat networks of the sites MK5836Г-MK5837А, MK5837А-MK5837ACK2, Kamysheva Ivana str., Kaunaskyi lane, Moskovskiy dstr., Kharkiv



Picture 4.1.8.20

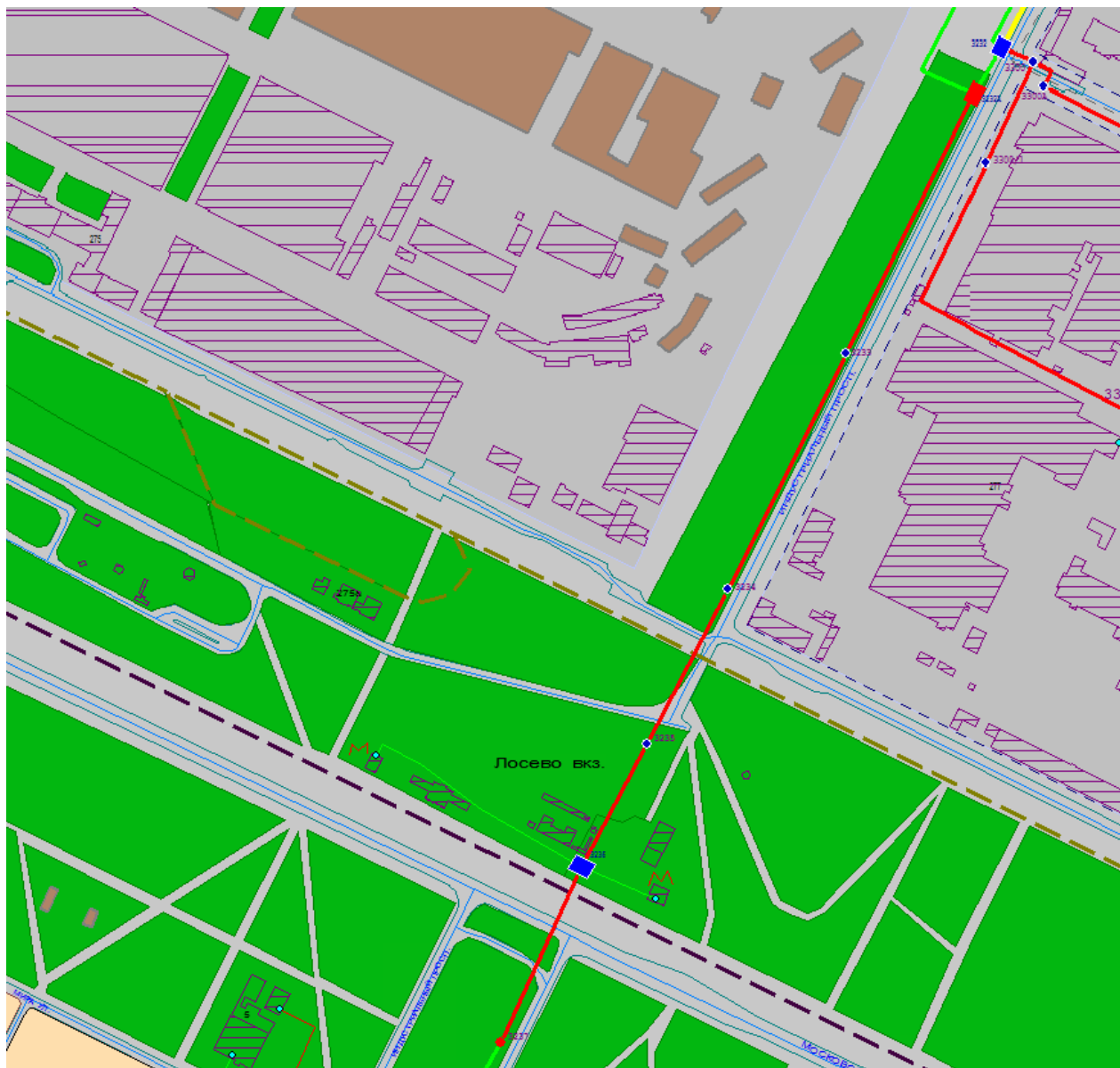
Picture 4.1.8.67

- cl.16. Heat networks of the site MK1802/2-MK1807,
- cl.17. Heat networks of the site MK1807-MK1821, Vilenskiy lane,
- cl.18. Heat networks of the site MK1821 to MK5830, Bilostotskiy lane,
- cl.19. Heat networks of the site MK5830-MK5836B, Kamysheva Ivana str.,
- cl.20. Heat networks of the sites MK5836Г-MK5837A, MK5837A-MK5837ACK2, Kamysheva Ivana str., Kaunaskiy lane.



Picture 4.1.8.67

cl.21. Heat networks of the site MK3223A-MK3237, Industrialnyi ave., Industrialnyi dstr., Kharkiv



Picture 4.1.8.21

cl.22. Heat networks of the site MK3237-MK3243, Industrialnyi ave., Industrialnyi dstr., Kharkiv

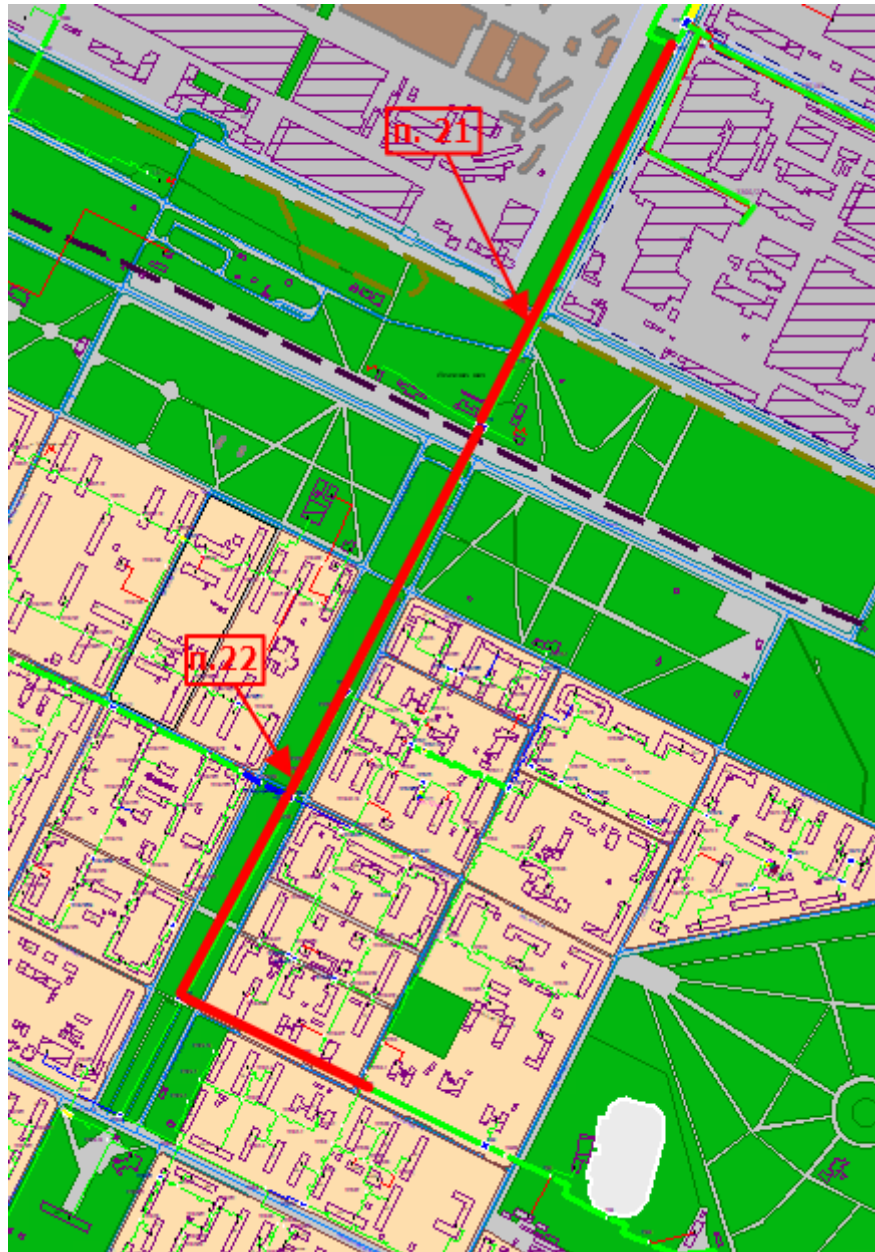


Picture 4.1.8.22

Picture 4.1.8.68

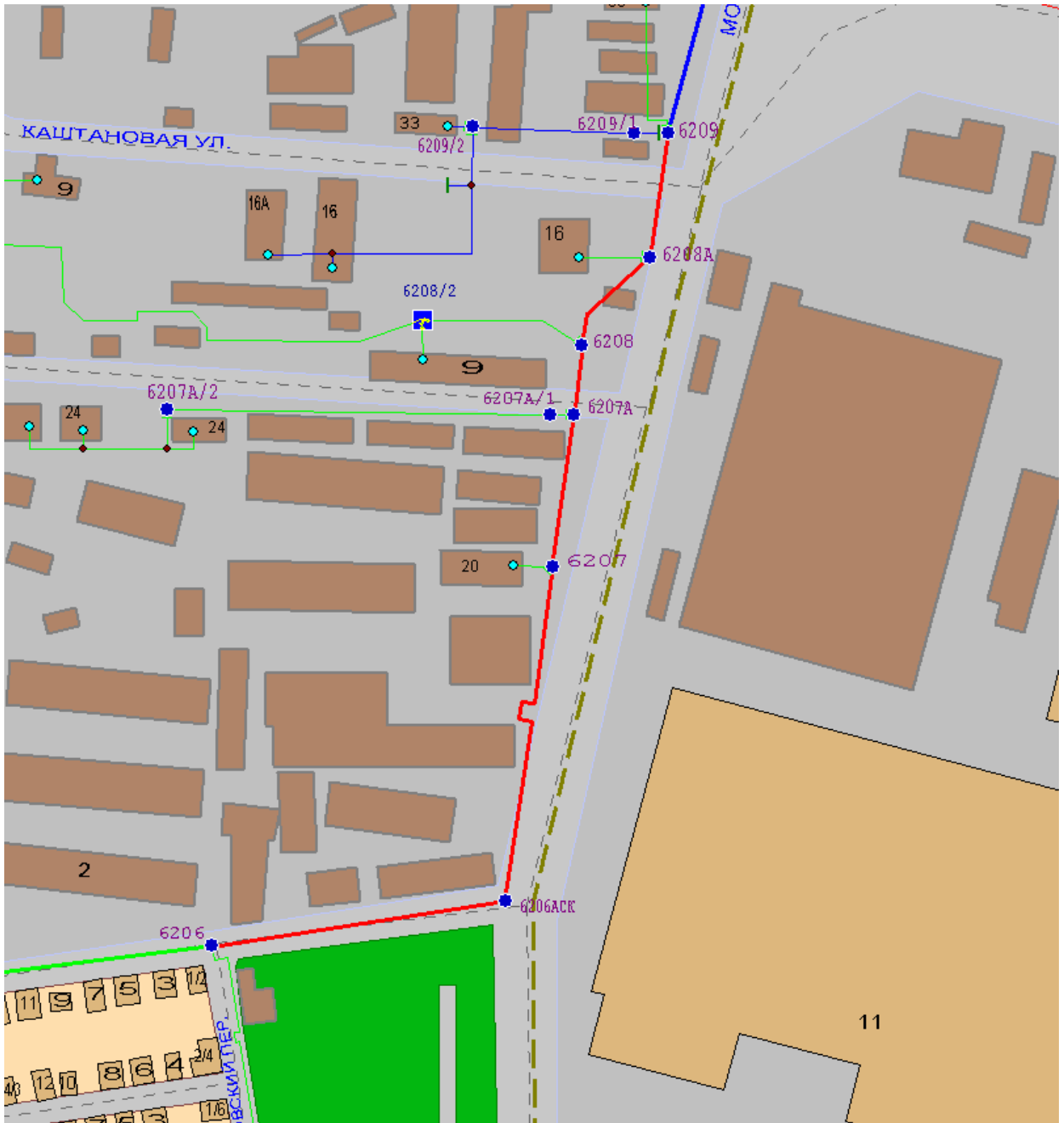
cl.21. Heat networks of the site MK3223A-MK3237,

cl.22. Heat networks of the site MK3237-MK3243, Industrialnyi ave.



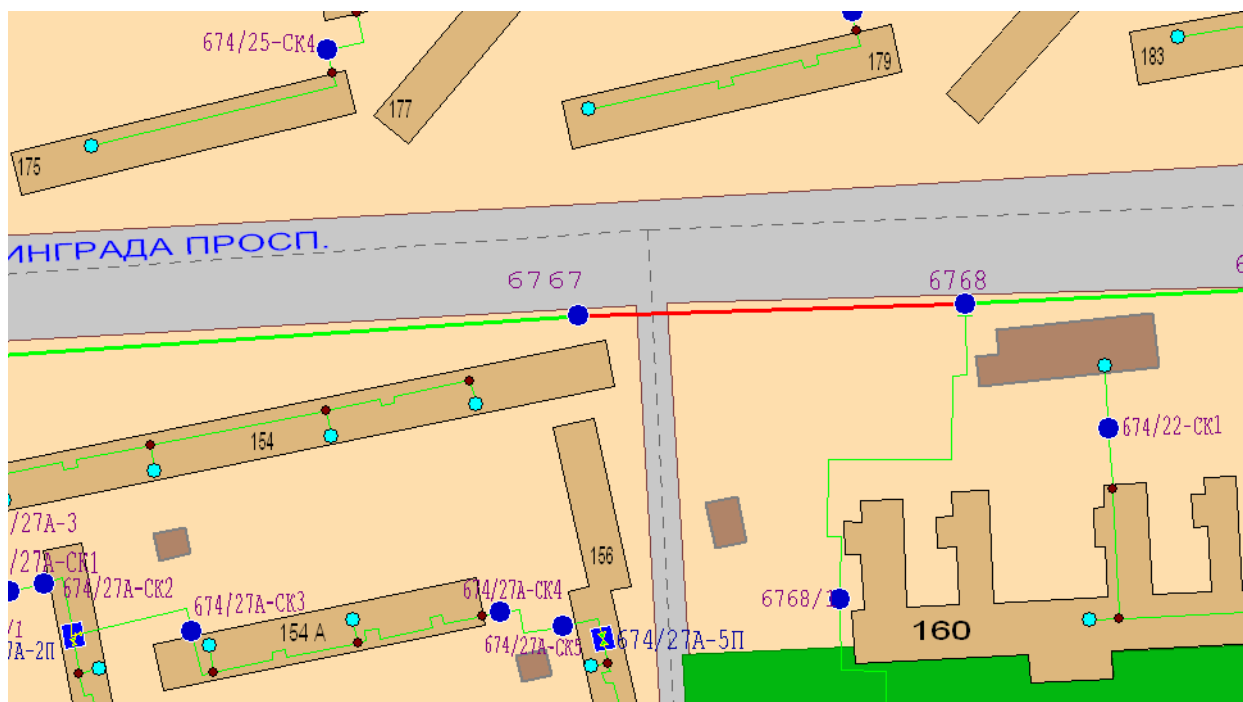
Picture 4.1.8.68

cl.23. Heat networks of the site MK6206-MK6209, Morozova str., Slobidskyi dstr., Kharkiv



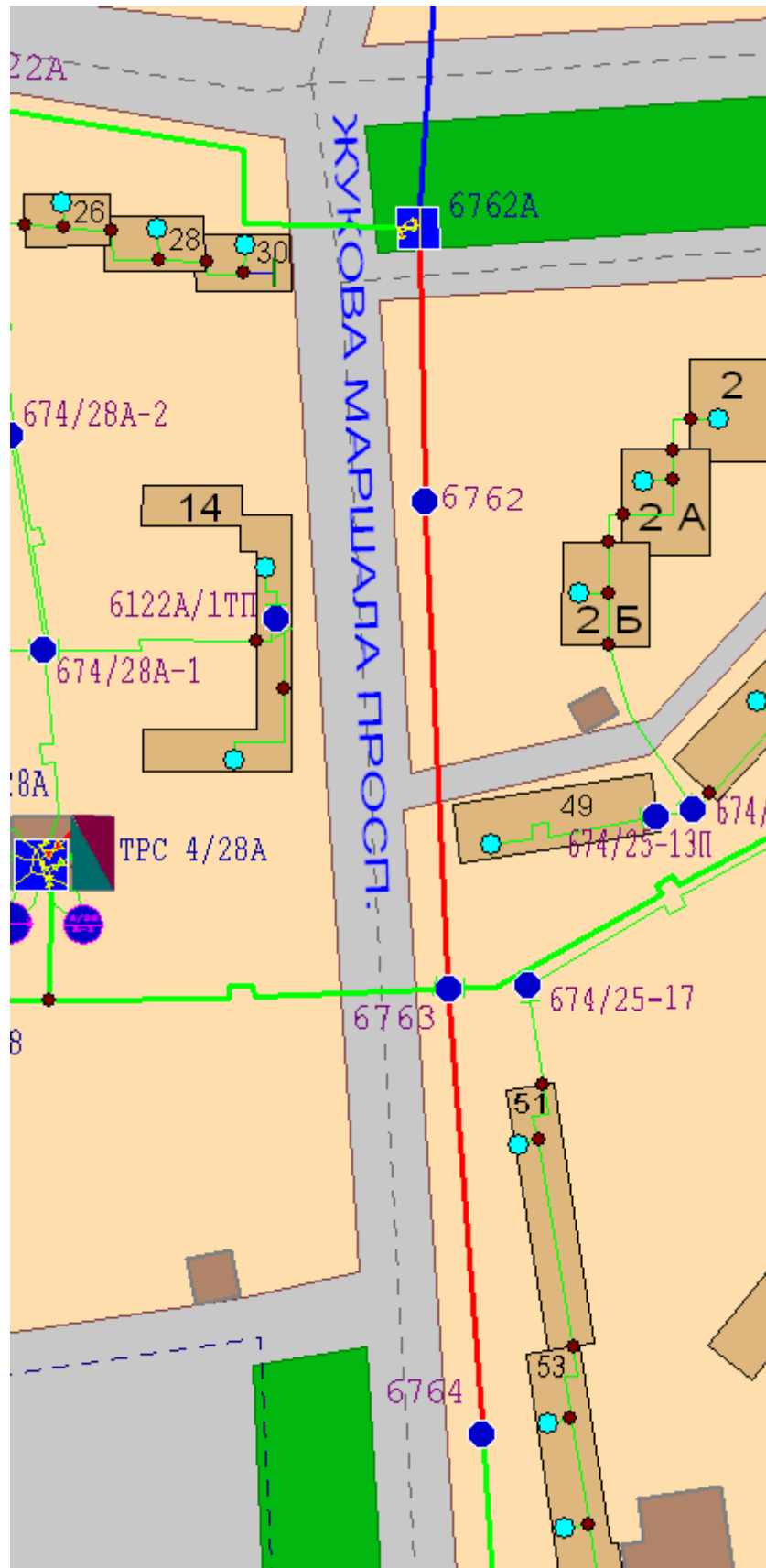
Picture 4.1.8.23

cl.24. Heat networks of the site MK6767-MK6768, Heroiv Stalinhrada str., Slobidskyi dstr., Kharkiv



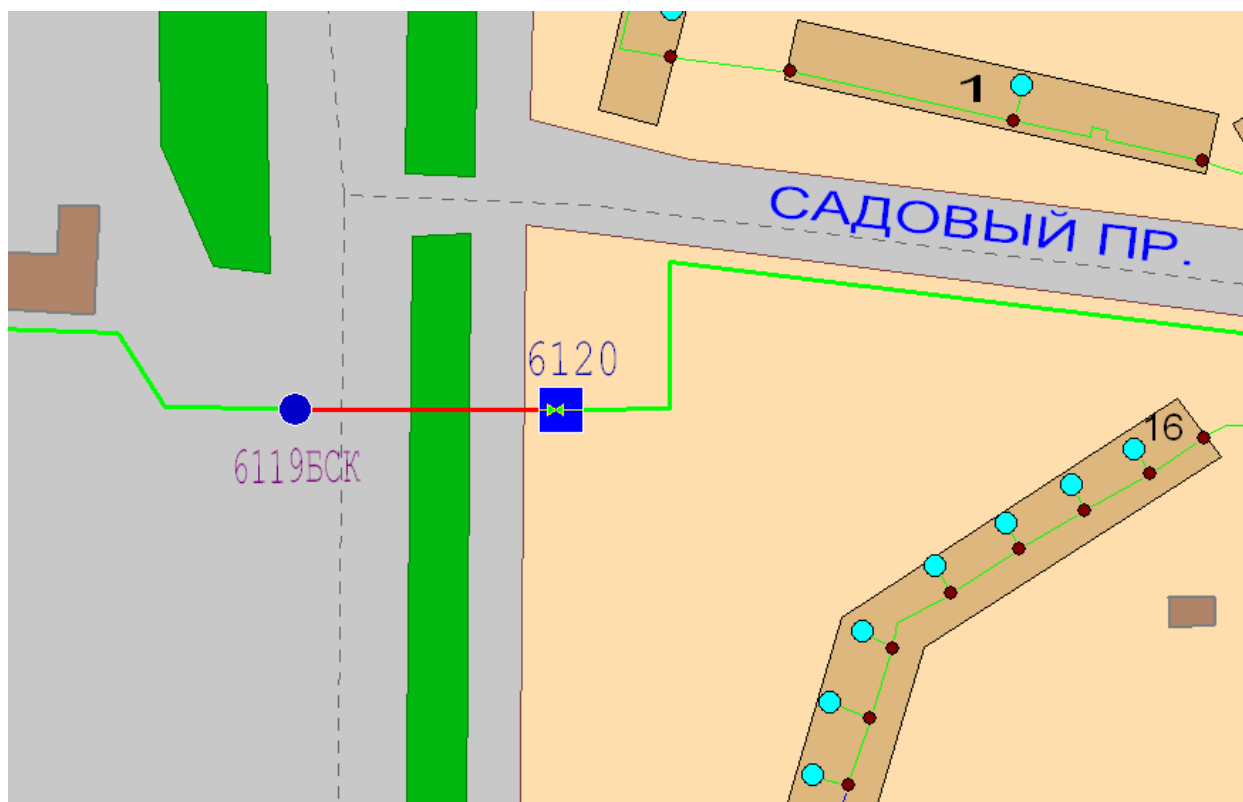
Picture 4.1.8.24

cl.25. Heat networks of the site MK6762A-MK6764, Petra Hryhorenka ave., Slobidskyi dstr., Kharkiv



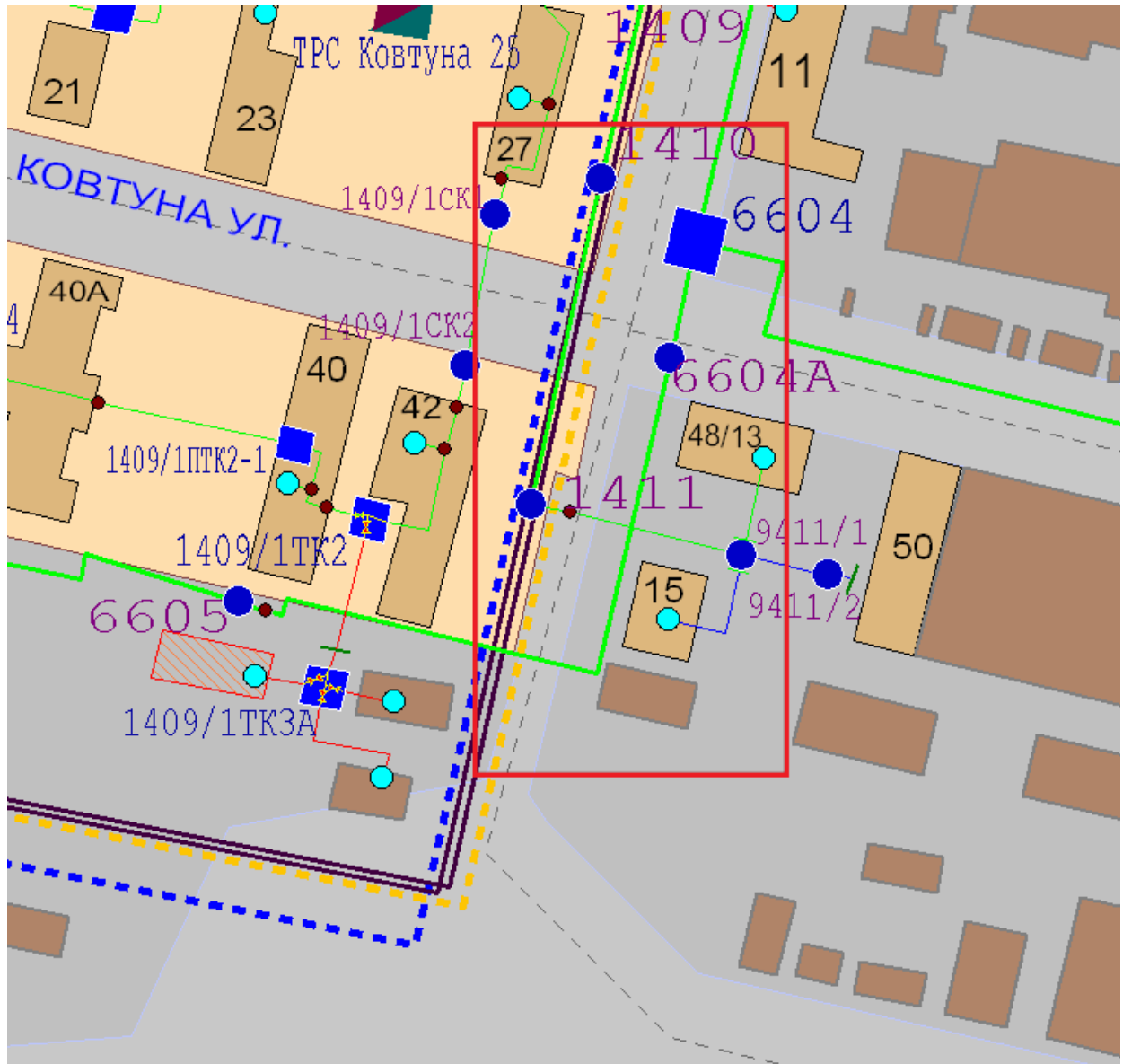
Picture 4.1.8.25

cl.26. Heat networks of the site MK6119БСК-MK6120, Lva Landau ave., Slobidskyi dstr., Kharkiv



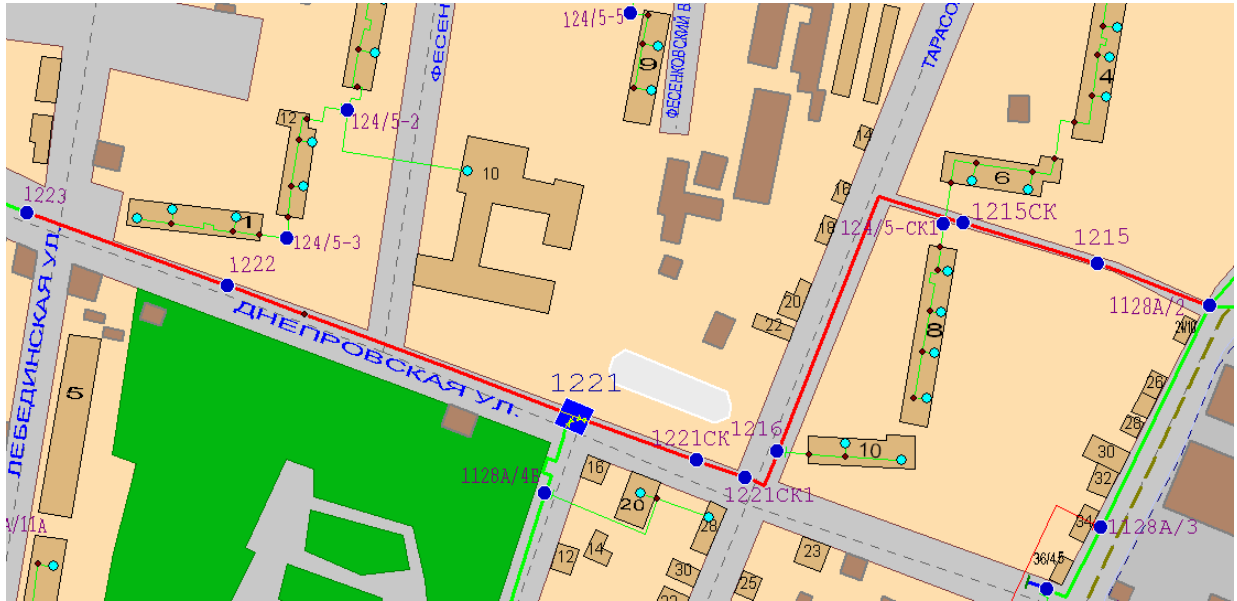
Picture 4.1.8.26

cl27. Jumper between heat mains No.66 and No.14, Enerhetychna str., Slobidskyi dstr., Kharkiv



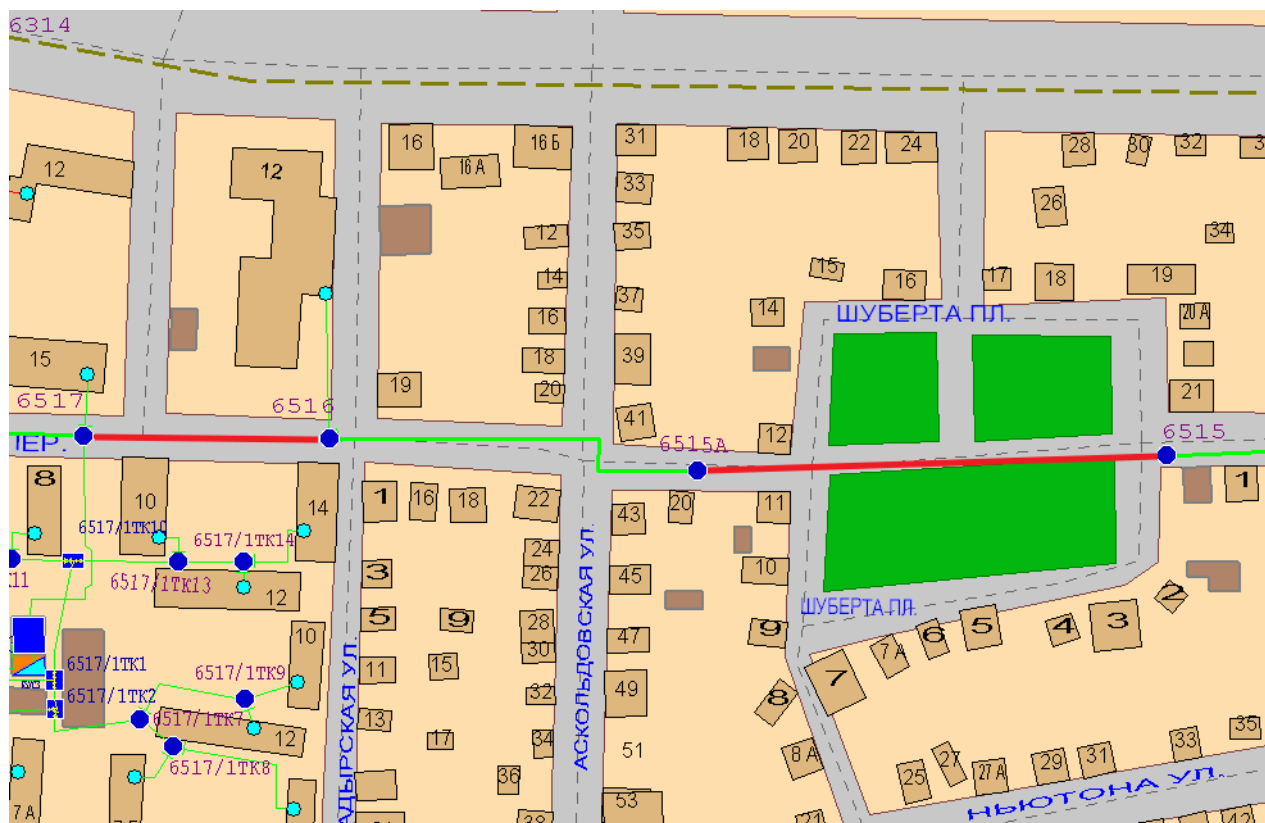
Picture 4.1.8.27

cl.28. Heat networks of the site MK1128A/2-MK1223, Dniprovska str., Slobidskyi dstr., Kharkiv



Picture 4.1.8.28

cl.29. Heat networks of the site MK6516-MK6517, MK6515-MK6515A, Zabaikalskyi lane, Slobidskyi dstr., Kharkiv

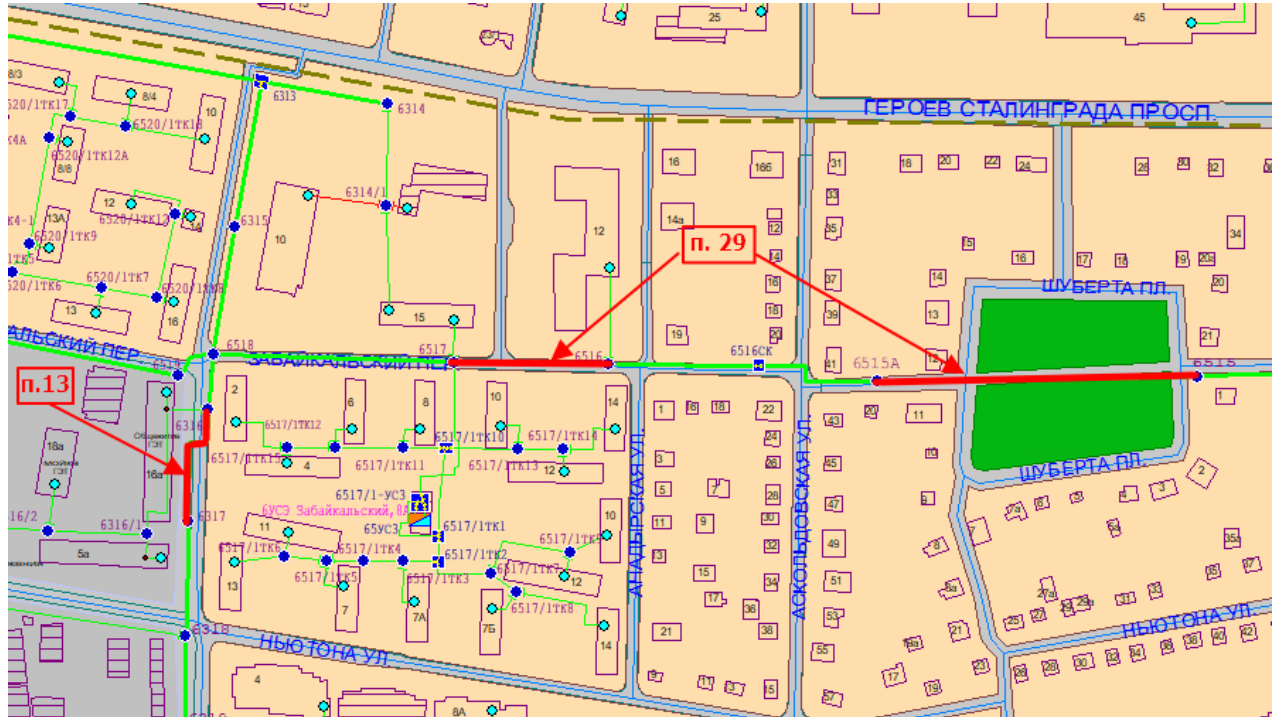


Picture 4.1.8.29

Picture 4.1.8.69

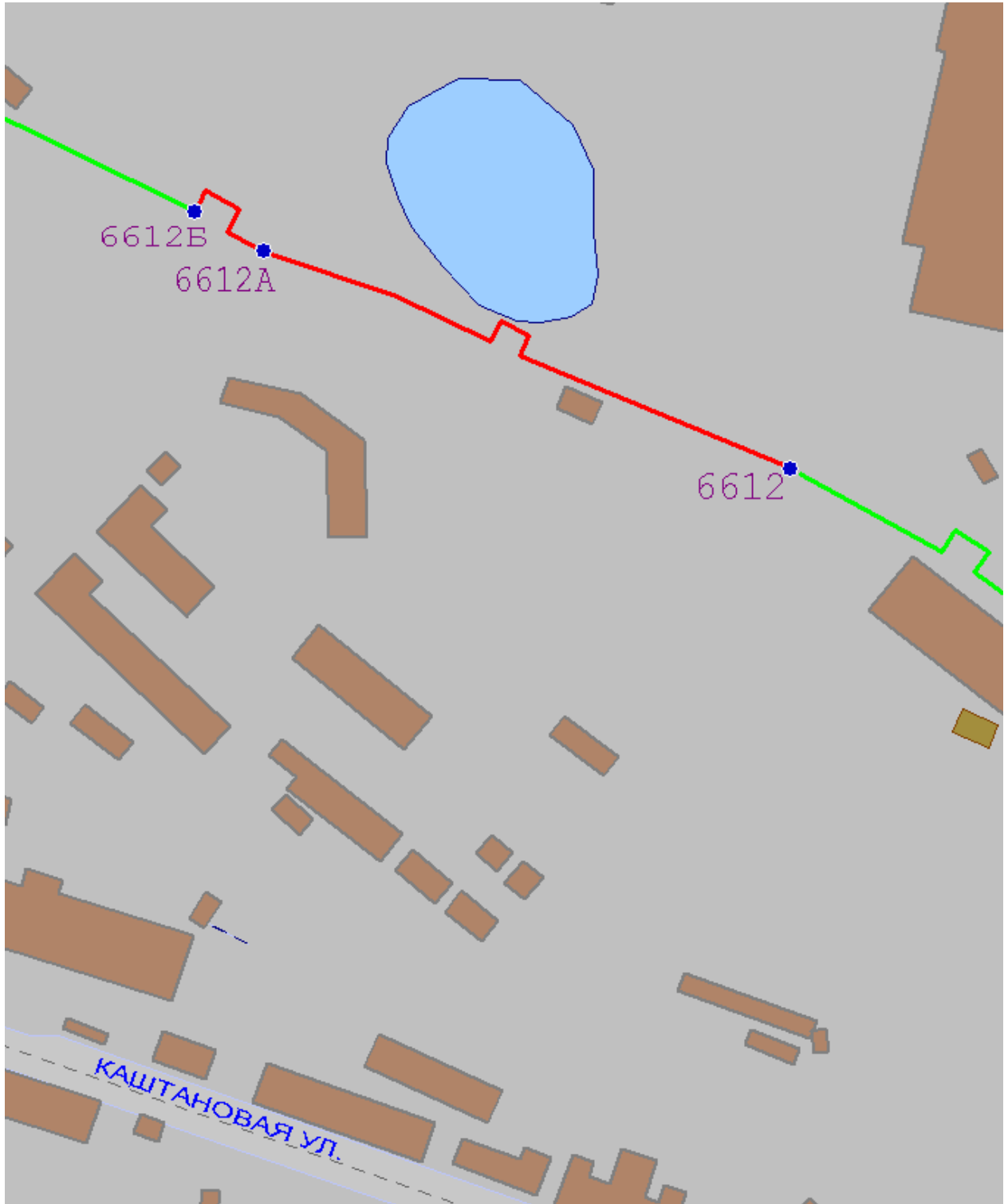
cl.13. Heat networks of the site MK6316-MK6317, Fonvizina str.,

cl.29. Heat networks of the site MK6516-MK6517, MK6515-MK6515A, Zabaikalskyi lane.



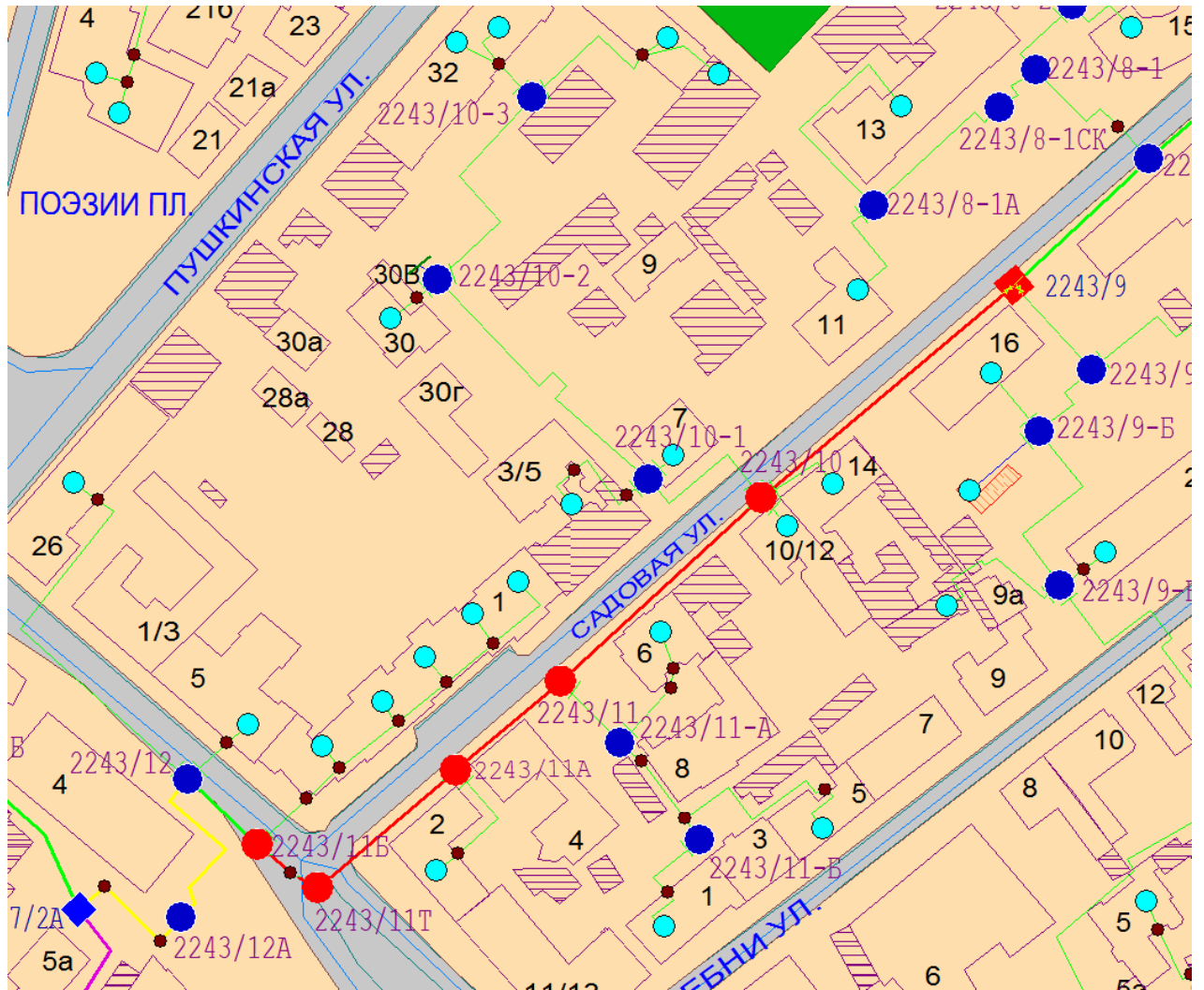
Picture 4.1.8.69

cl.30. Heat networks of the site MK6612-MK6612Б, Kashtanova str.,Slobidskyi dstr., Kharkiv



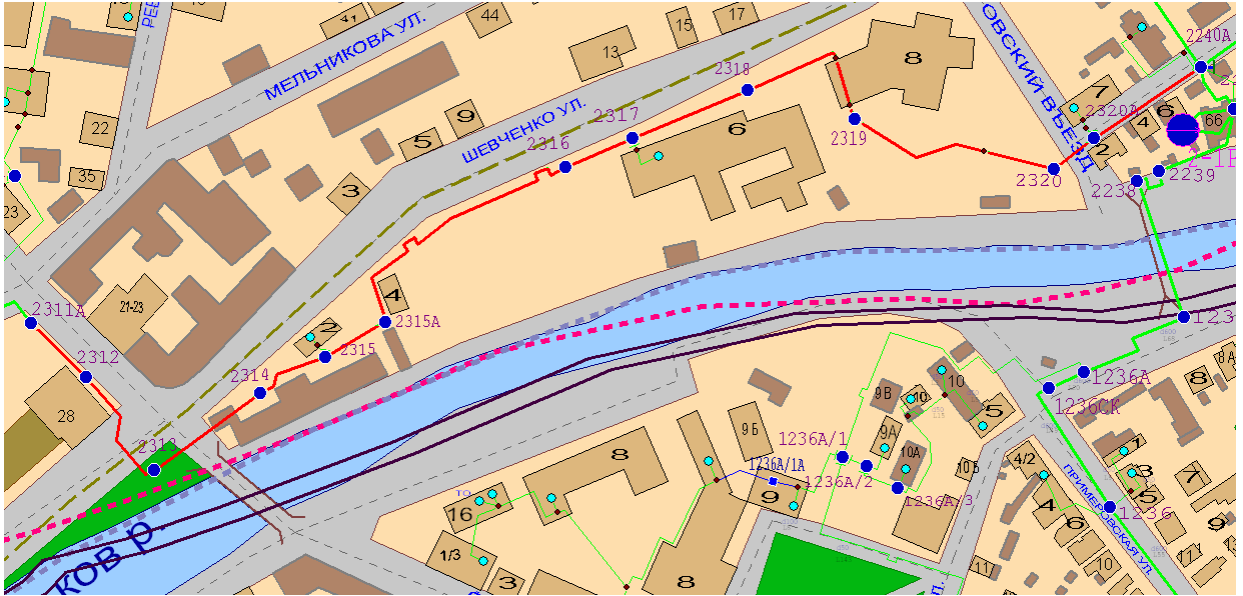
Picture 4.1.8.30

cl.31. Heat networks of the site MK2243 / 9-MK2243 / 11Б, Sadova str., Kyivskiy dstr., Kharkiv



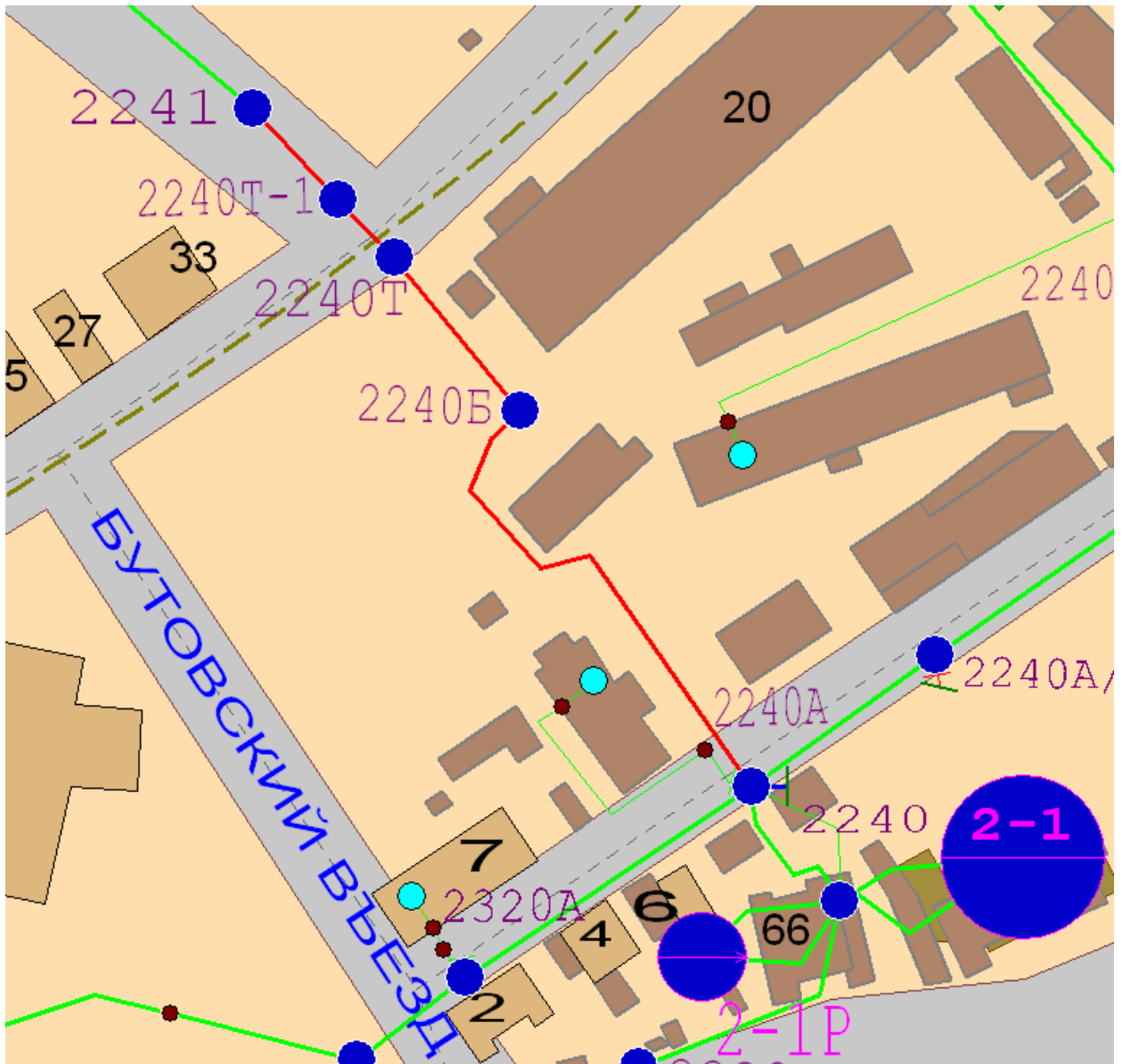
Picture 4.1.8.31

cl.32. Heat networks of the site MK2240A-MK2311A, Shevchenka str., Kyivskyi distr., Kharkiv



Picture 4.1.8.32

cl.33. Heat networks of the site MK2240A-MK2241, Bilhorodskiy descent, Kyivskiy dstr.,Kharkiv

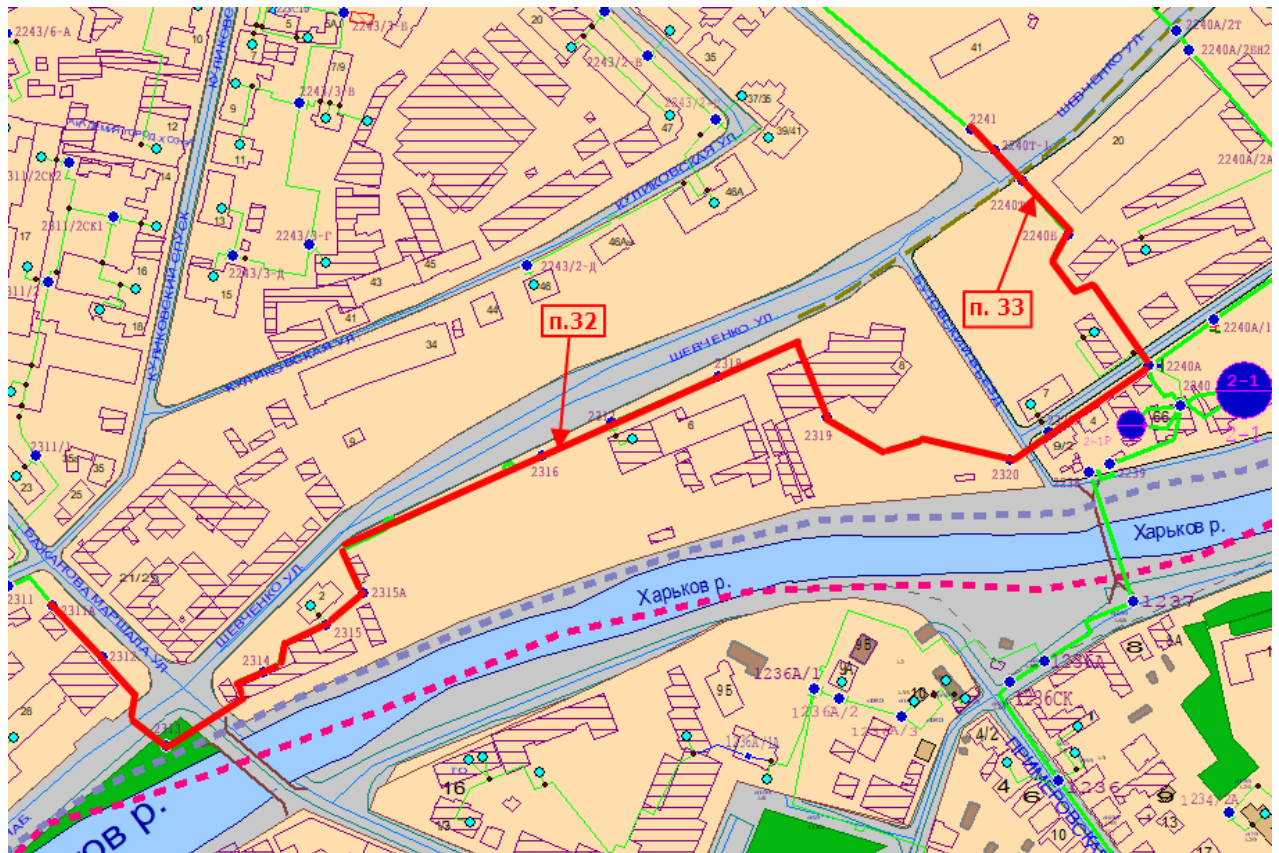


Picture 4.1.8.33

Picture 4.1.8.70

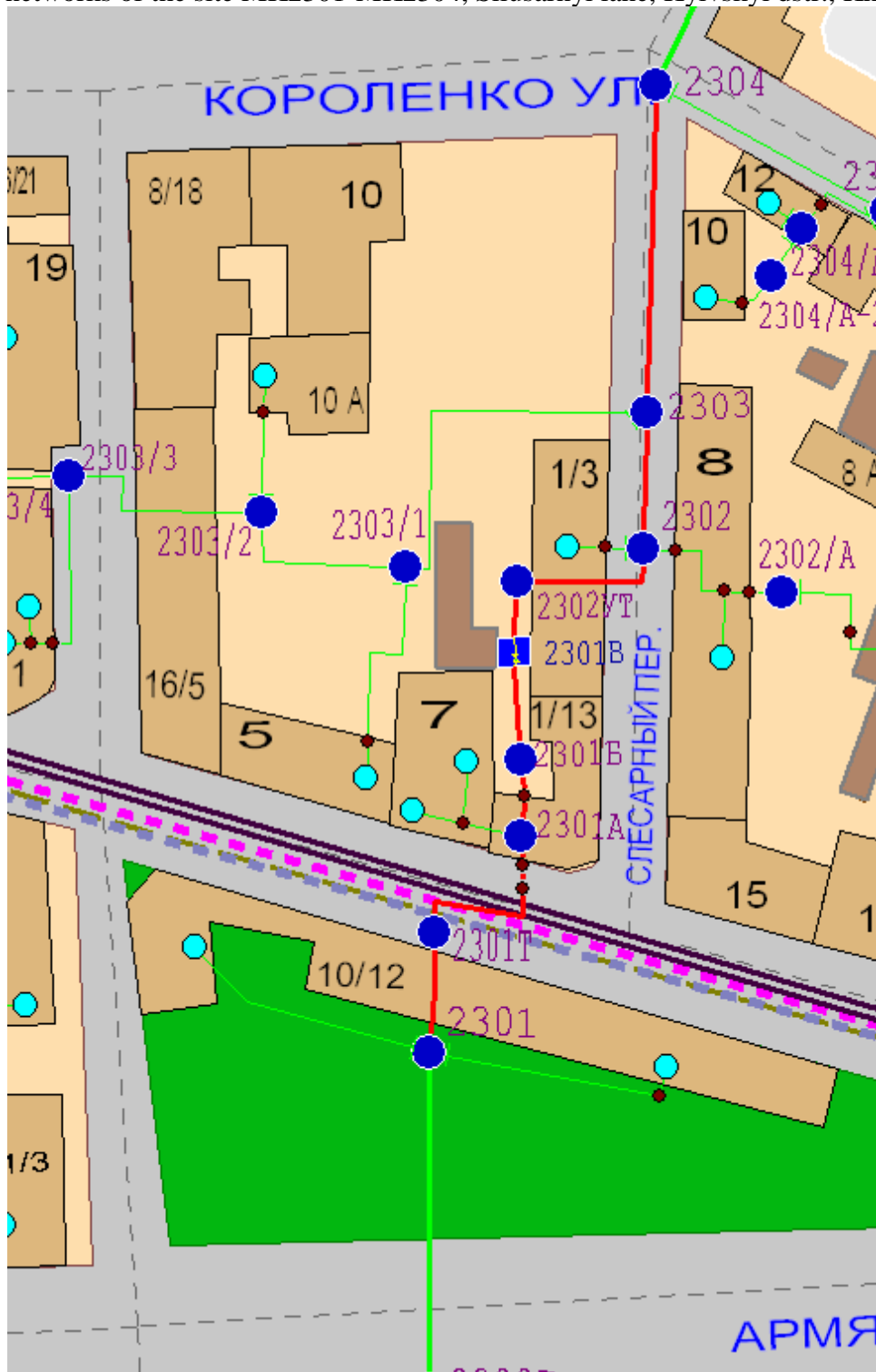
cl.32. Heat networks of the site MK2240A-MK2311A, Shevchenka str.,

cl.33. Heat networks of the site MK2240A-MK2241, Bilhorodskyi descent.



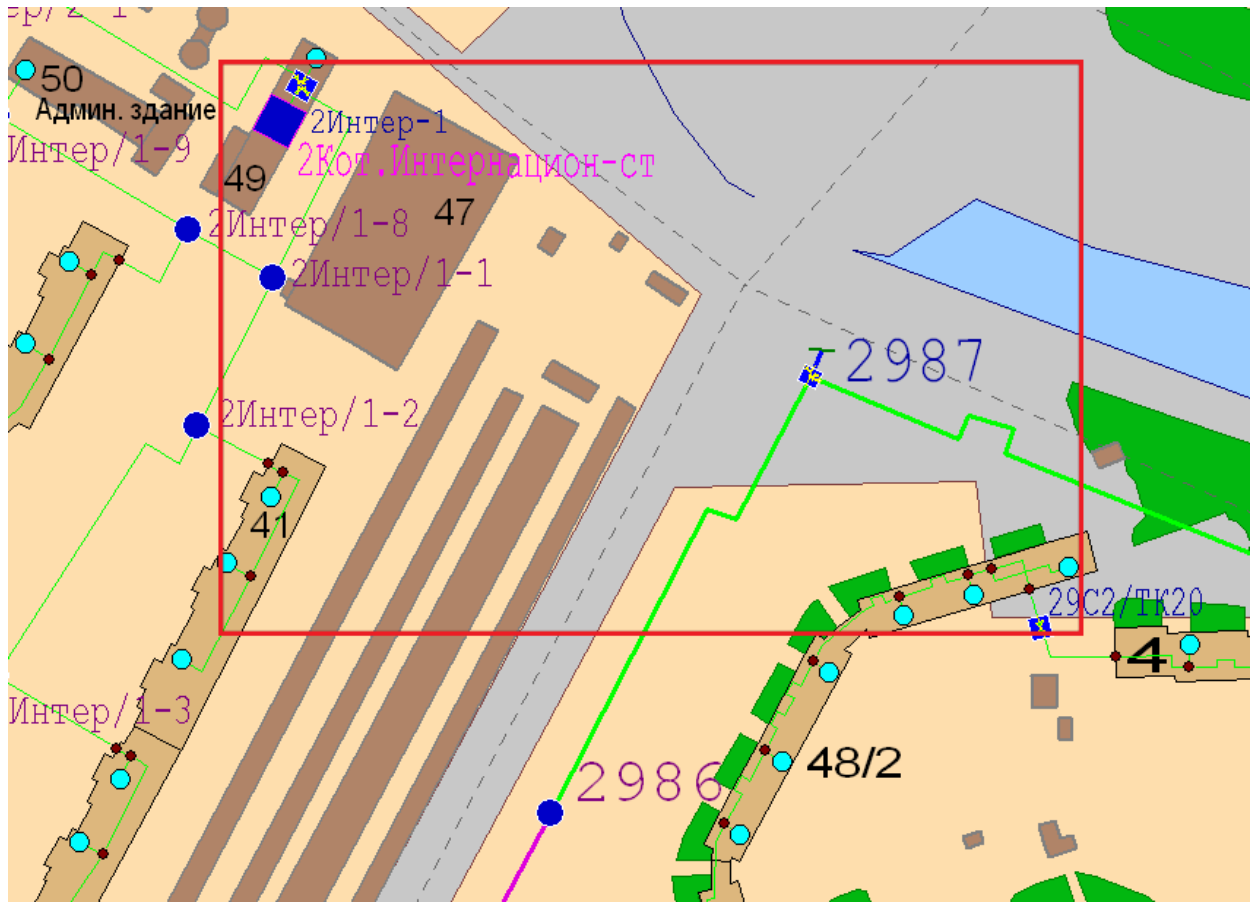
Picture 4.1.8.70

cl.34. Heat networks of the site MK2301-MK2304, Sliusarnyi lane, Kyivskyi dstr., Kharkiv



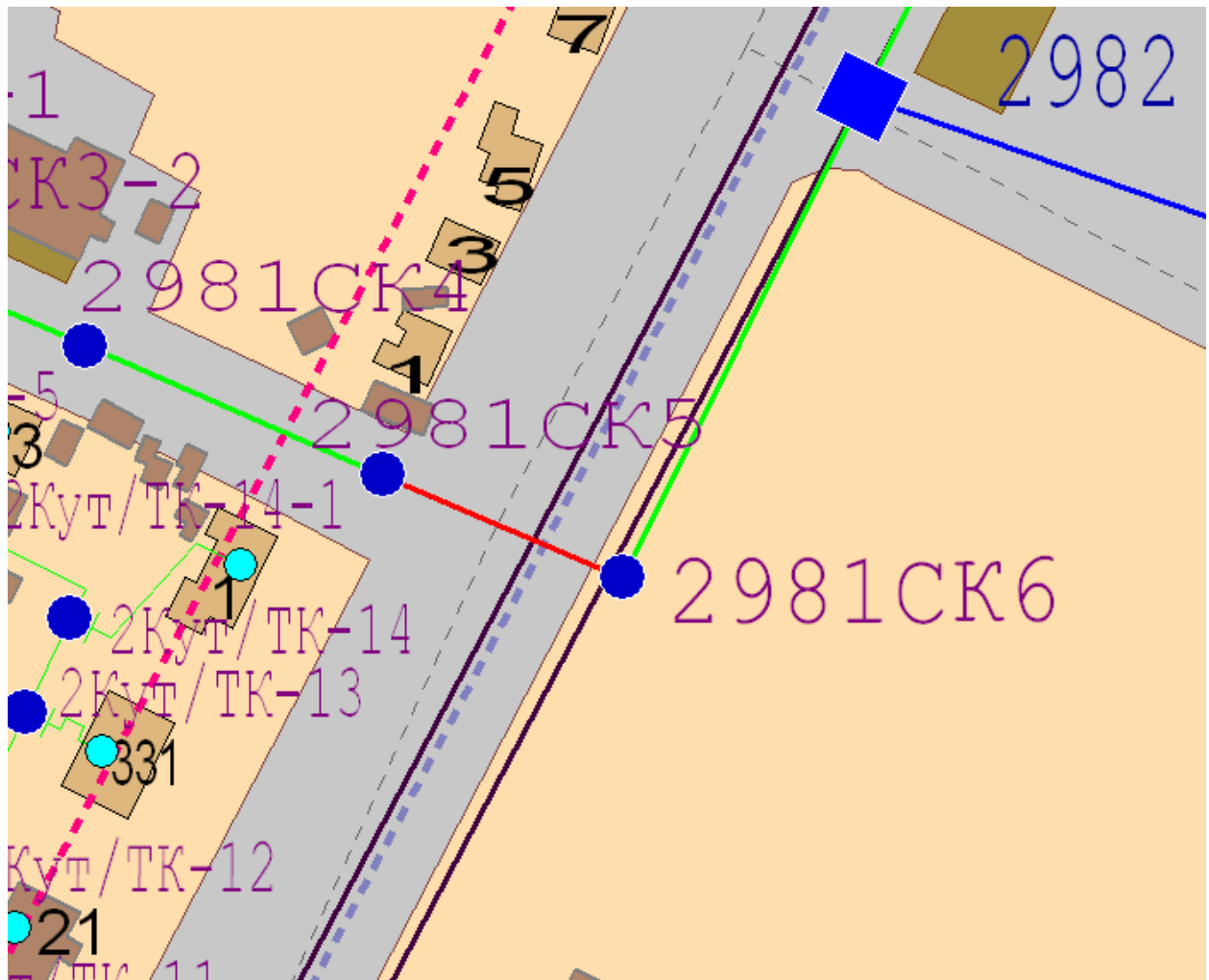
Picture 4.1.8.34

cl.35. Heat networks from МК-2987 to the boiler house YRC Internatsionalist, 70, Horianska str., with pipeline fittings of boiler house, Kyivskiyi dstr., Kharkiv



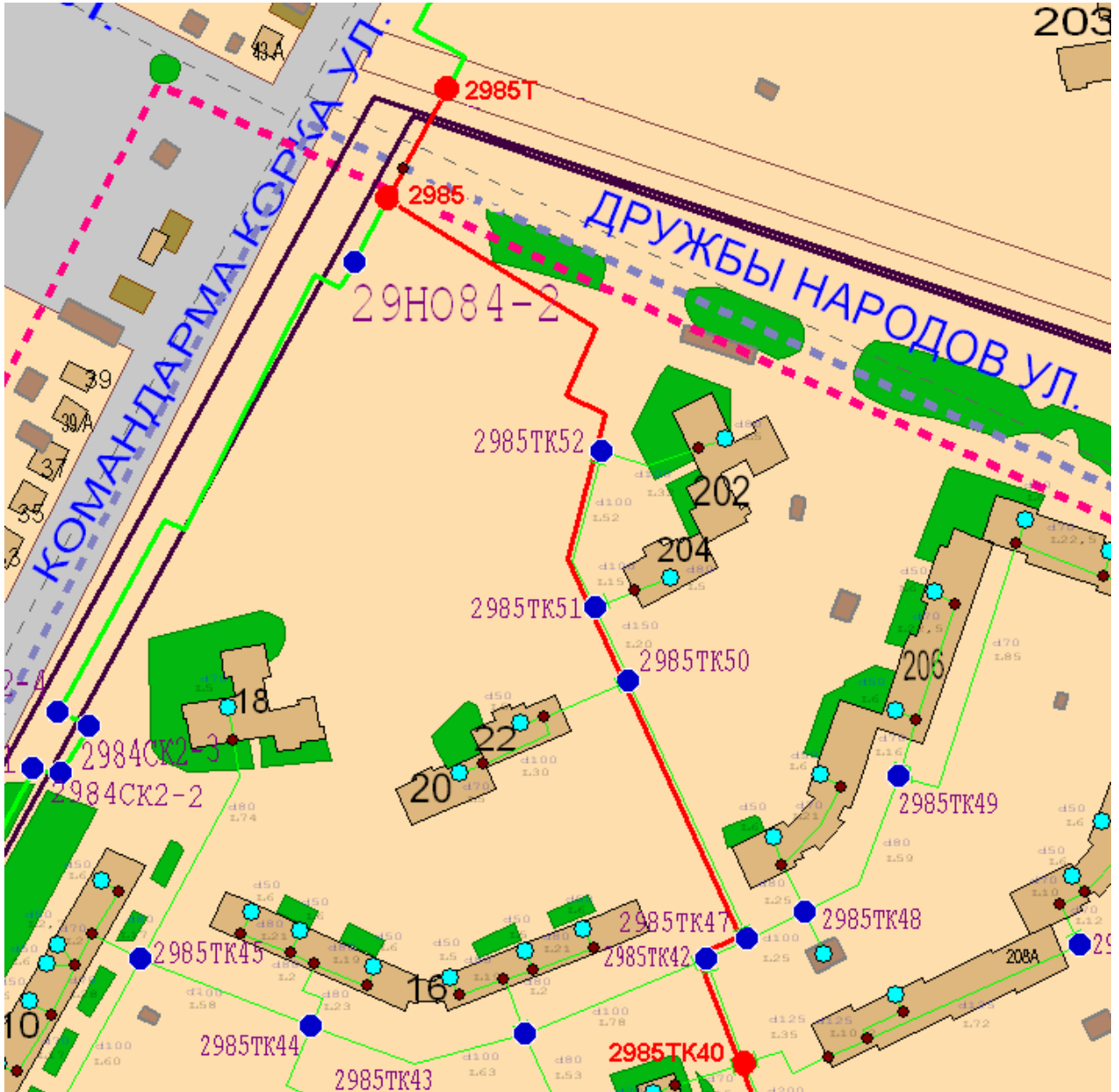
Picture 4.1.8.35

cl.36. Heat networks of the site MK2981CK6-MK2981CK5, Lesia Serdiuka str., Kyivskyi dstr., Kharkiv



Picture 4.1.8.36

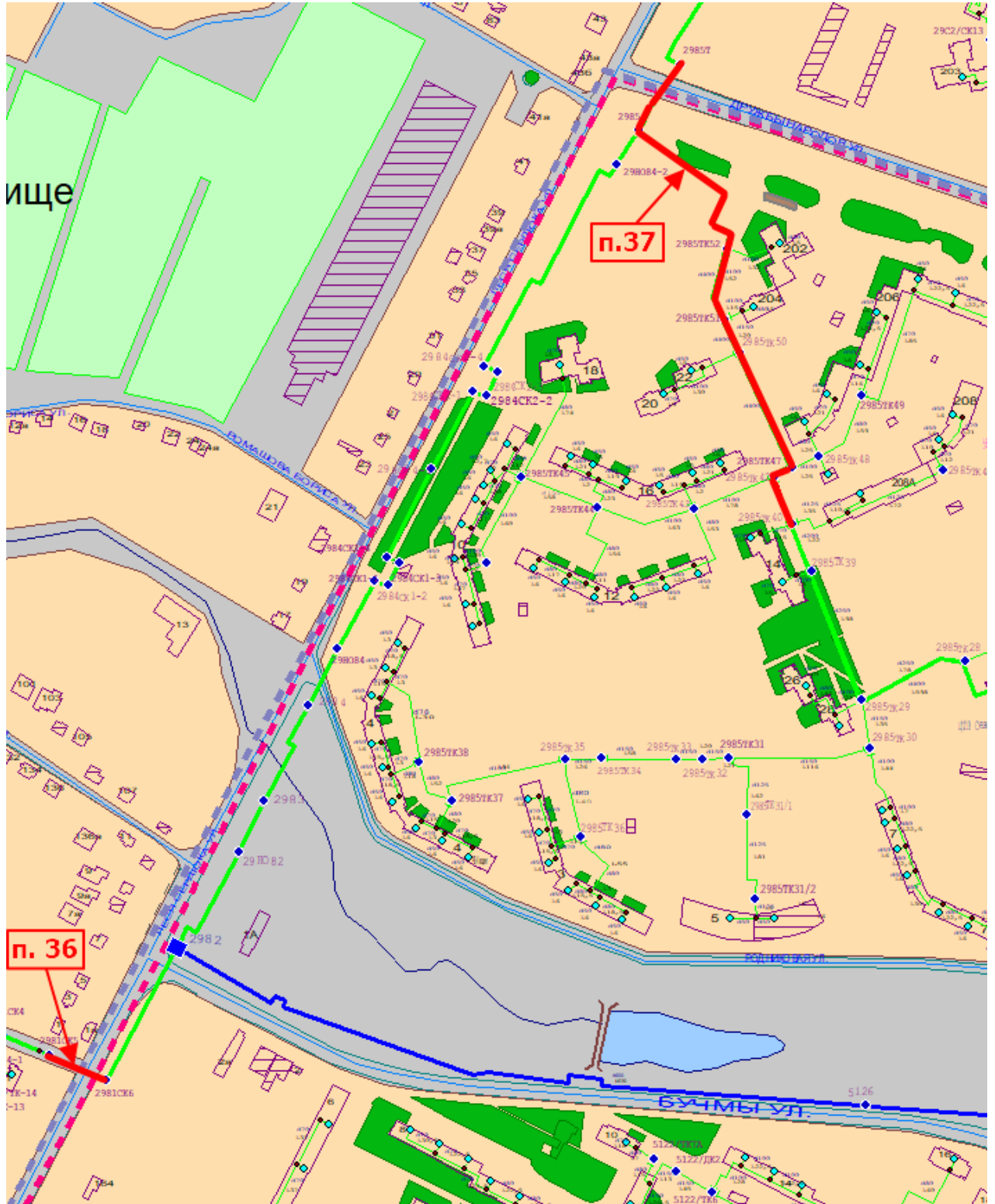
cl.37. Heat networks of the site MK2985-MK2985T, MK2985-MK2985TK40, Lesia Serdiuka str., Druzhby Narodiv str., Moskovskiy dstr., Kyivskiy dstr., Kharkiv



Picture 4.1.8.37

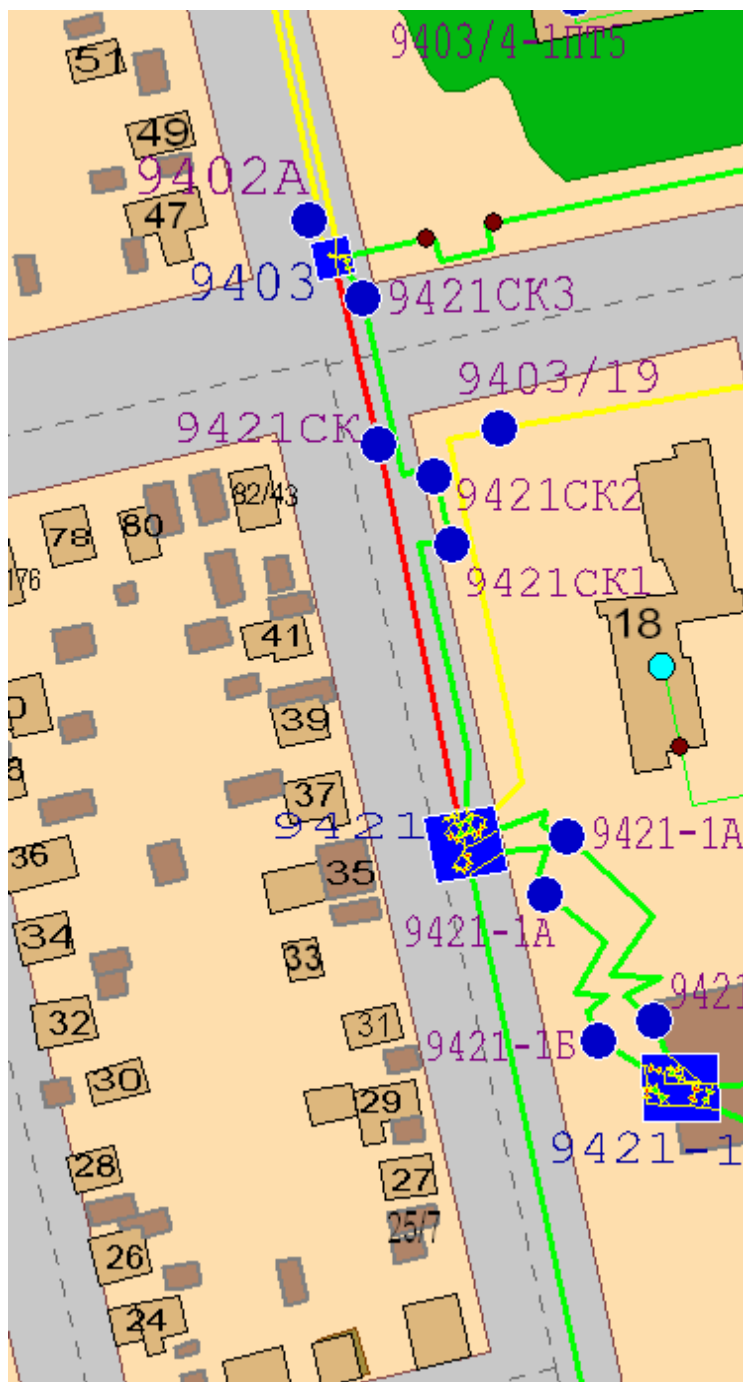
Picture 4.1.8.71.

cl.36. Heat networks of the site MK2981CK6-MK2981CK5,
cl.37. Heat networks of the site MK2985-MK2985T, MK2985-MK2985TK40,
Lesia Serdiuka str., Druzhby Narodiv str.



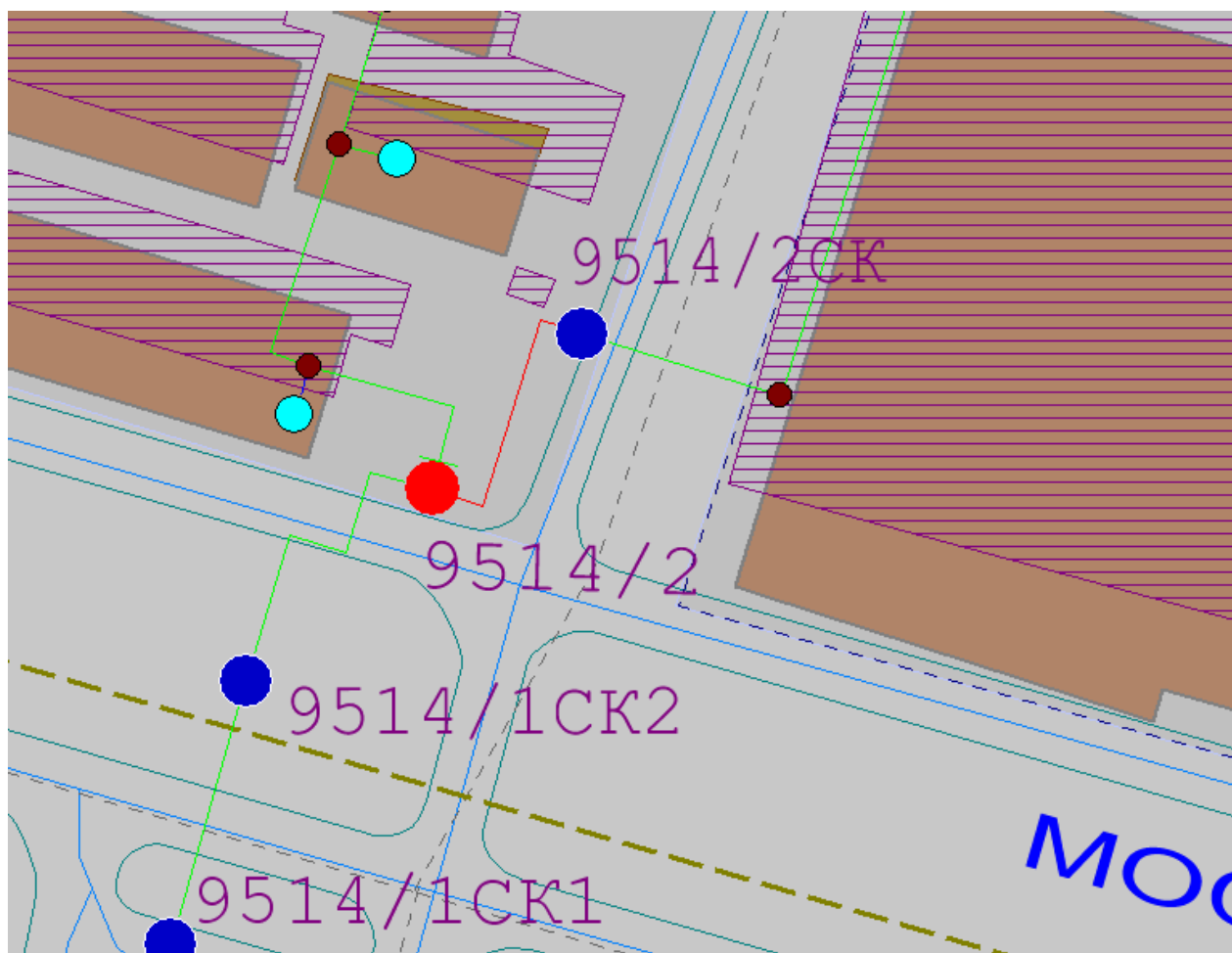
Picture 4.1.8.71.

cl.38. Heat networks of the site MK9421-MK9403, Blahodatna str., Nemyshlianskyi dstr., Kharkiv



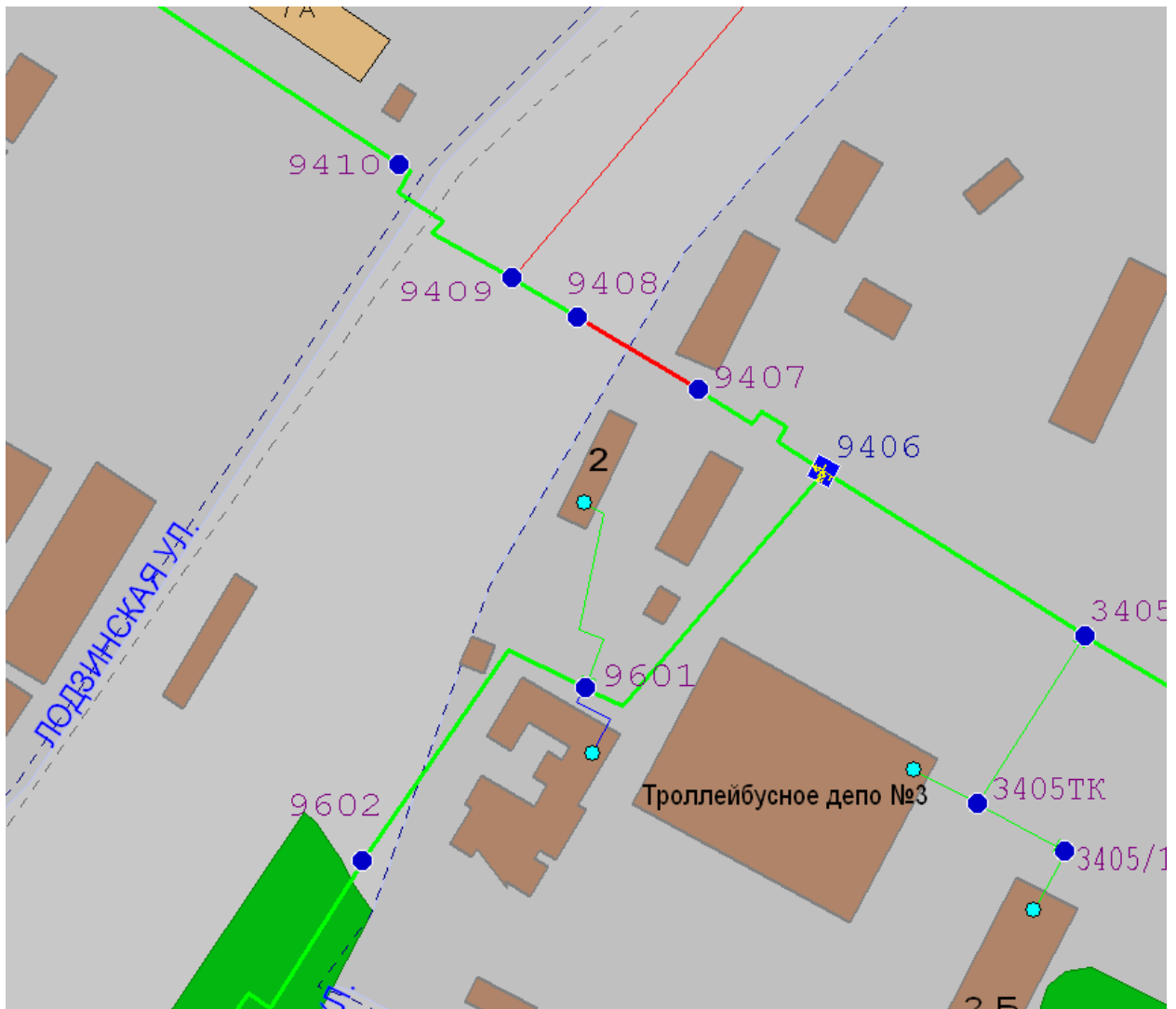
Picture 4.1.8.38

cl.39. Heat networks of the site MK9514/2-MK9514/2CK2, Unetskyi lane, Nemyshlianskyi dstr., Kharkiv



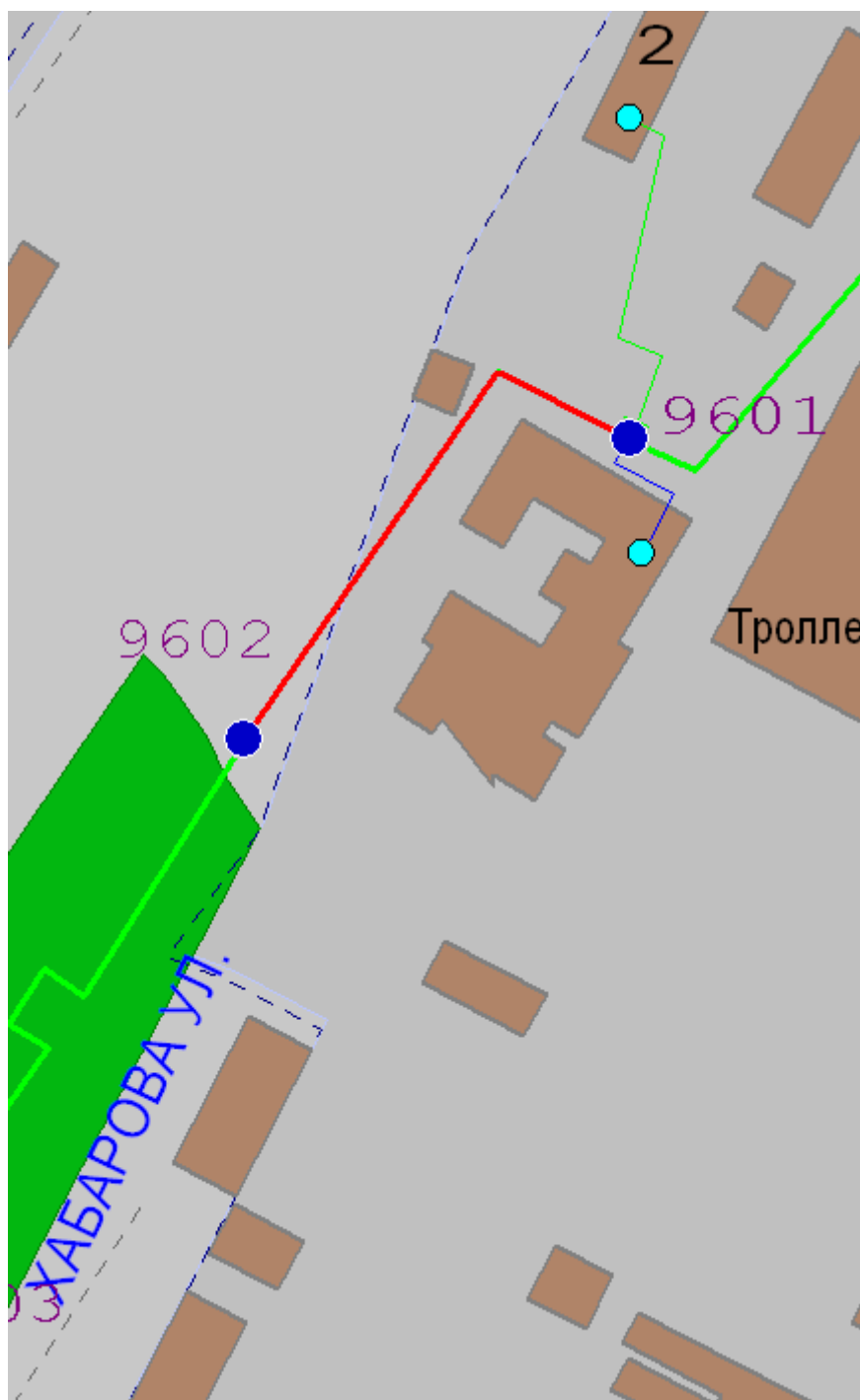
Picture 4.1.8.39

cl.40. Heat networks of the site MK9407-MK9408, Khabarova str., Nemyshlianskyi dstr., Kharkiv



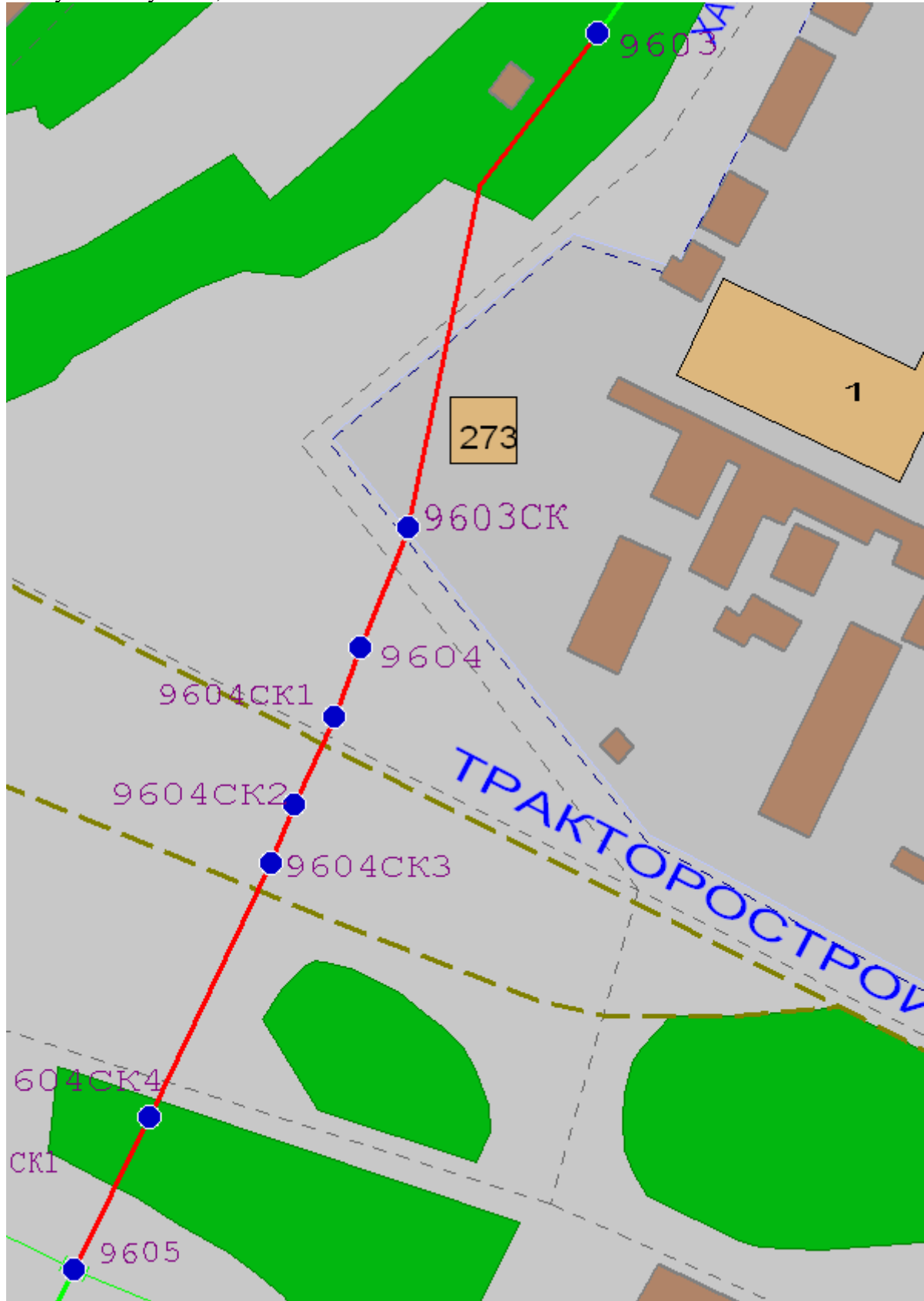
Picture 4.1.8.40

cl.41. Heat networks of the site MK9601-MK9602, Khabarova str., Nemyshlianskyi dstr., Kharkiv



Picture 4.1.8.41

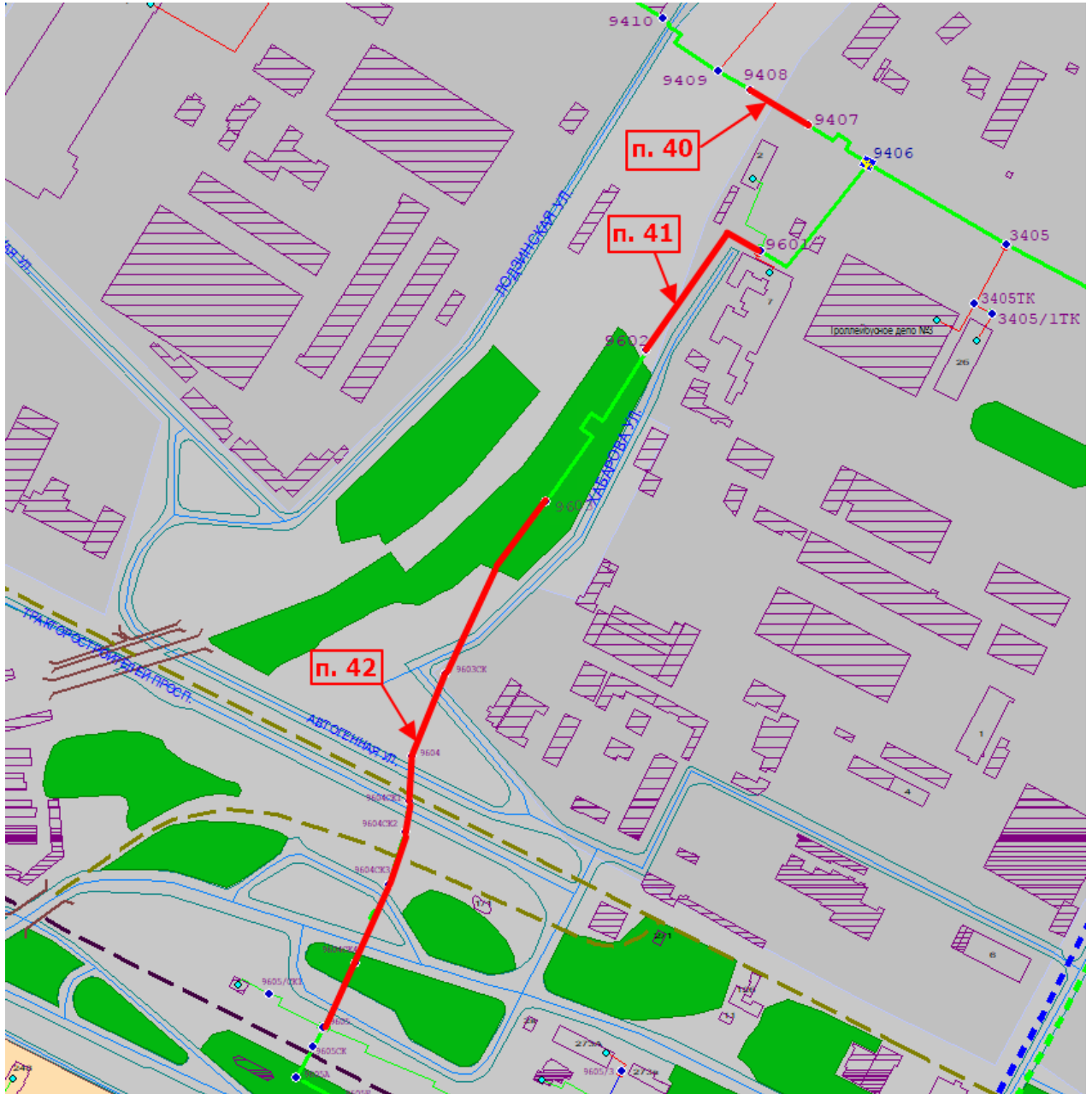
cl.42. Heat networks of the site MK9603-MK9605, Khabarova str., Traktorobudivnykiv ave., Nemyshlianskyi dstr., Kharkiv



Picture 4.1.8.42

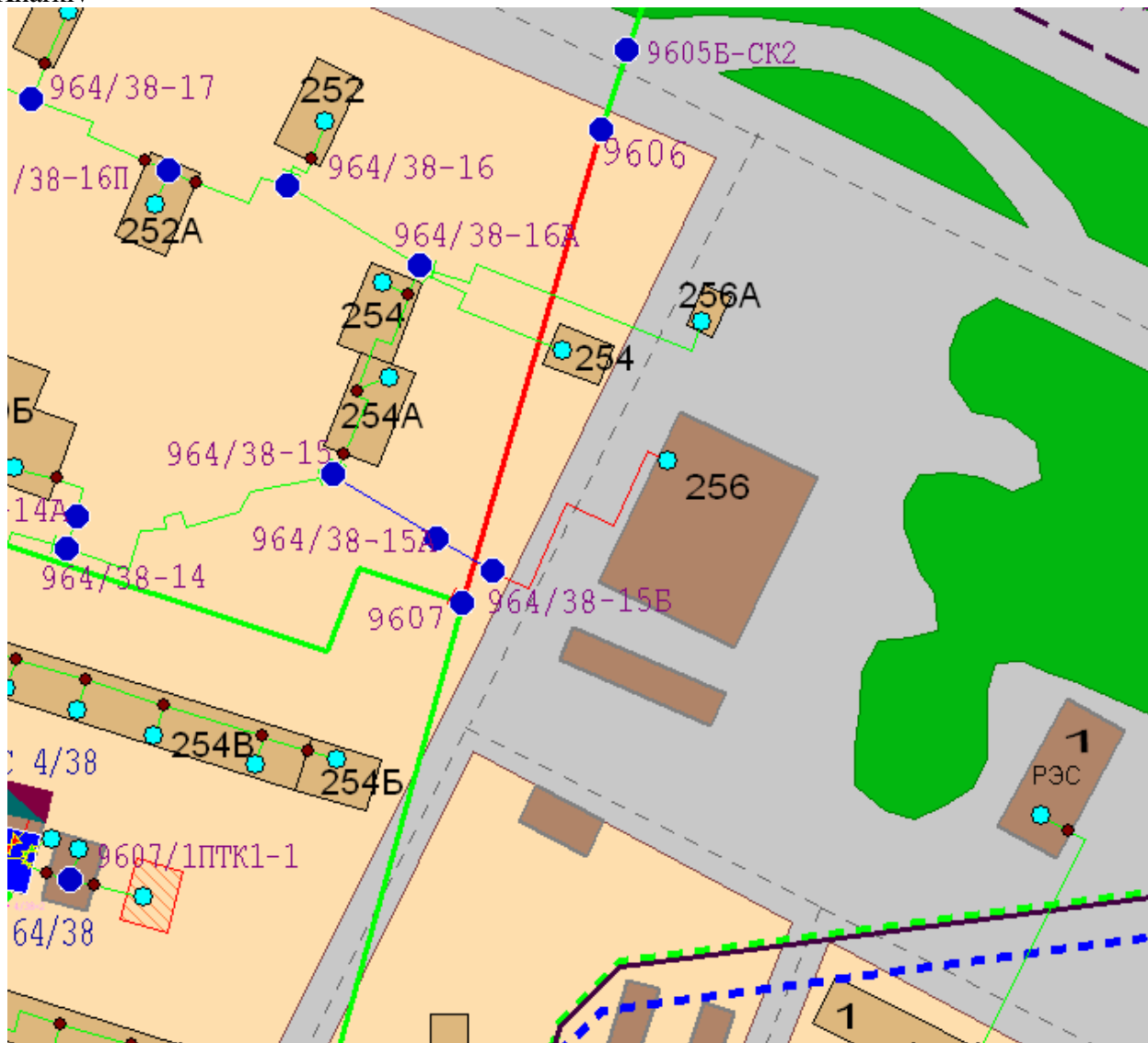
Picture 4.1.8.72

cl.40. Heat networks of the site MK9407-MK9408,
cl.41. Heat networks of the site MK9601-MK9602,
cl.42. Heat networks of the site MK9603-MK9605, Khabarova str.,
Traktorobudivnykiv ave..



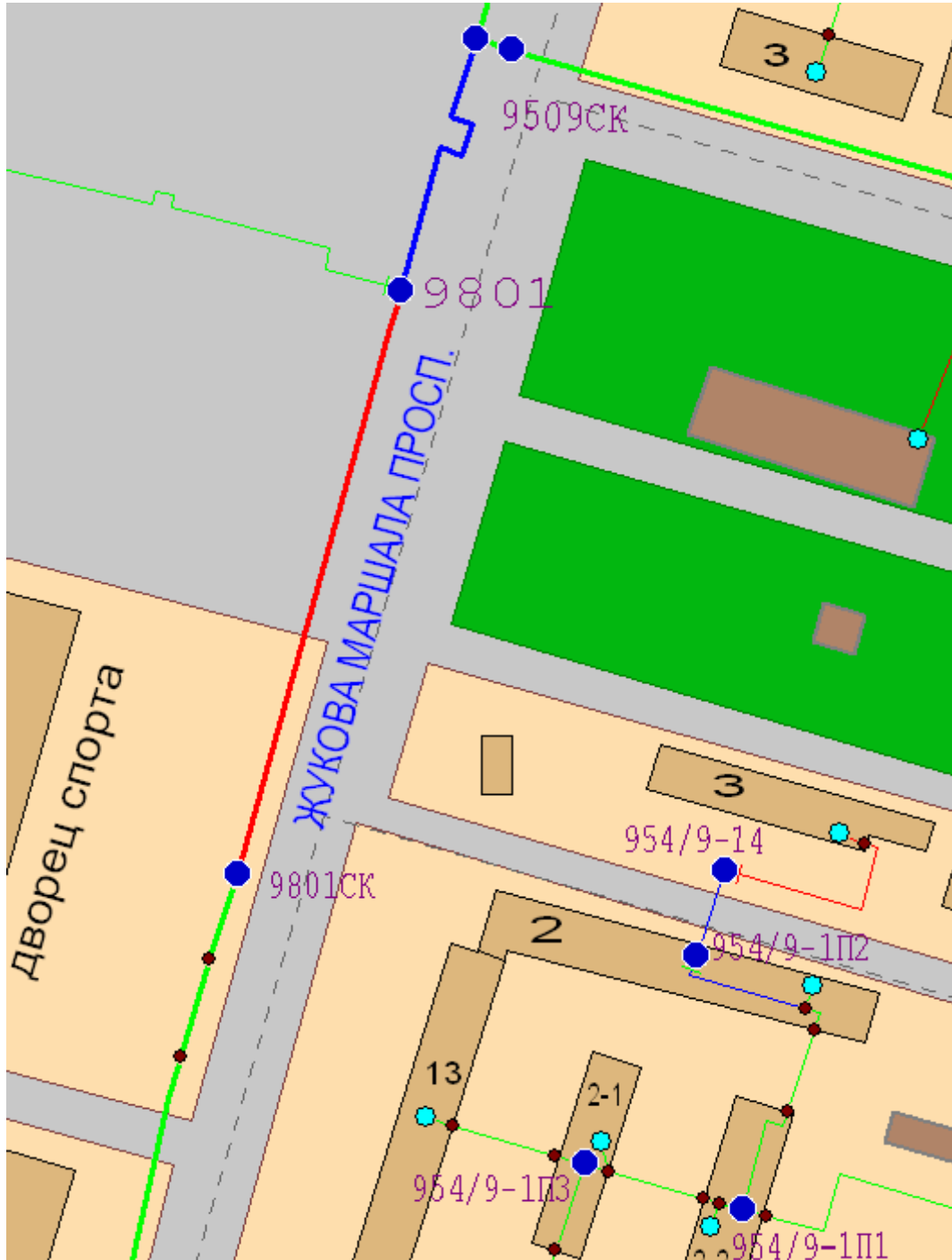
Picture 4.1.8.72

cl.43. Heat networks of the site MK9606-MK9607, Moskovskiy ave., Nemyshlianskyi dstr., Kharkiv



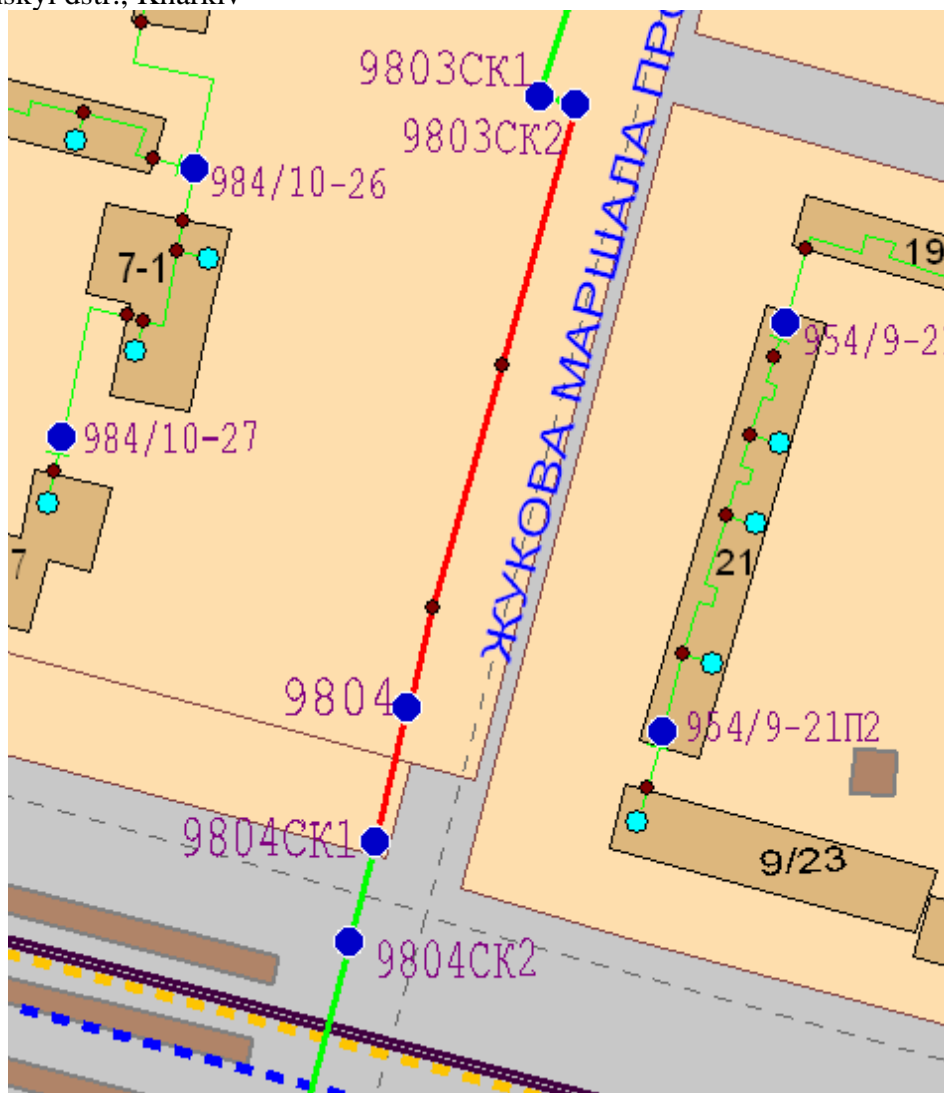
Picture 4.1.8.43

cl.44. Heat networks of the site MK9801-MK9801CK, Petra Hryhorenka ave., Nemyshlianskyi dstr., Kharkiv



Picture 4.1.8.44

cl.45. Heat networks of the site MK9803CK2-MK9804CK1, Petra Hryhorenka ave., Nemyshlianskyi dstr., Kharkiv

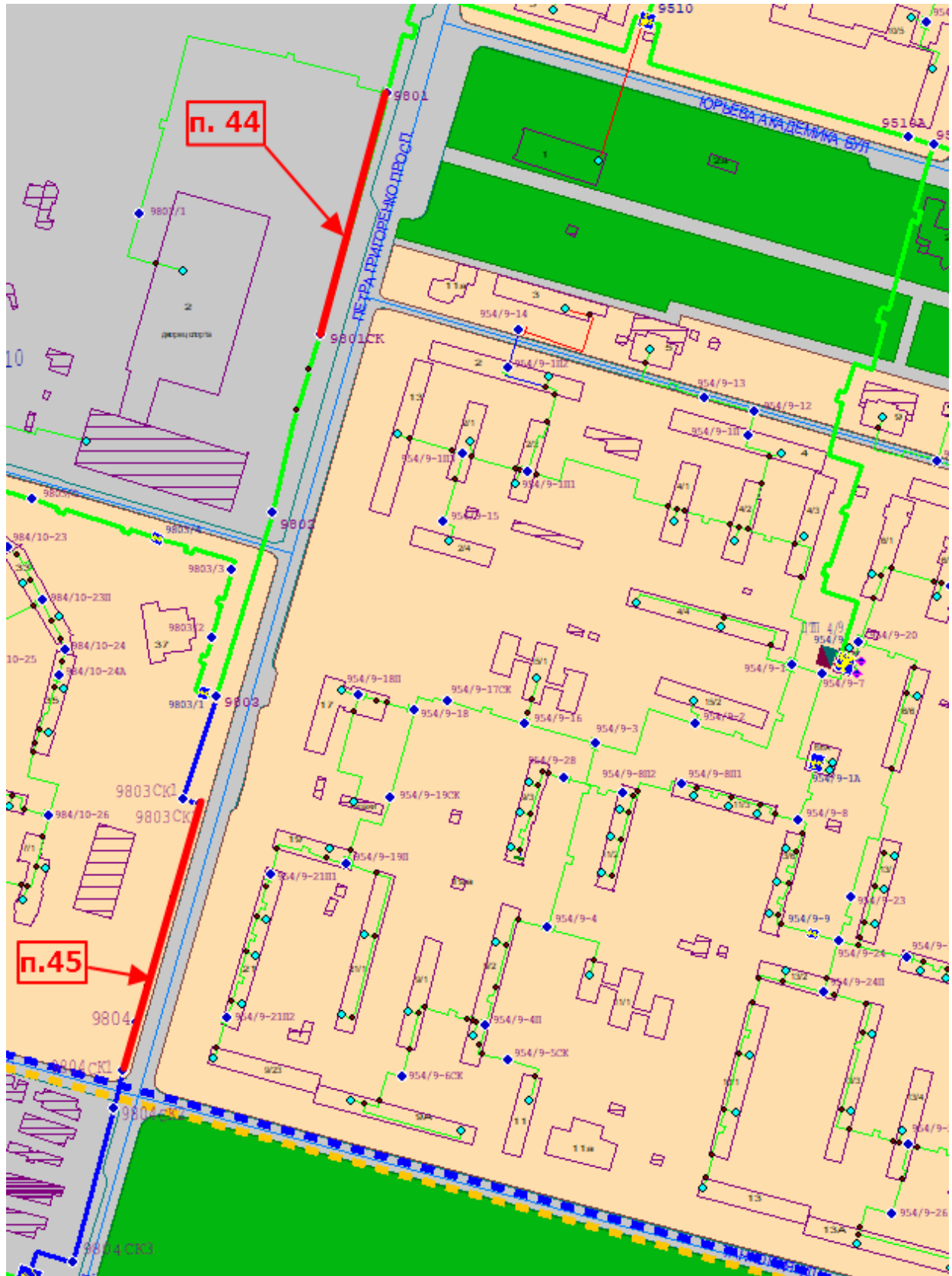


Picture 4.1.8.45

Picture 4.1.8.73

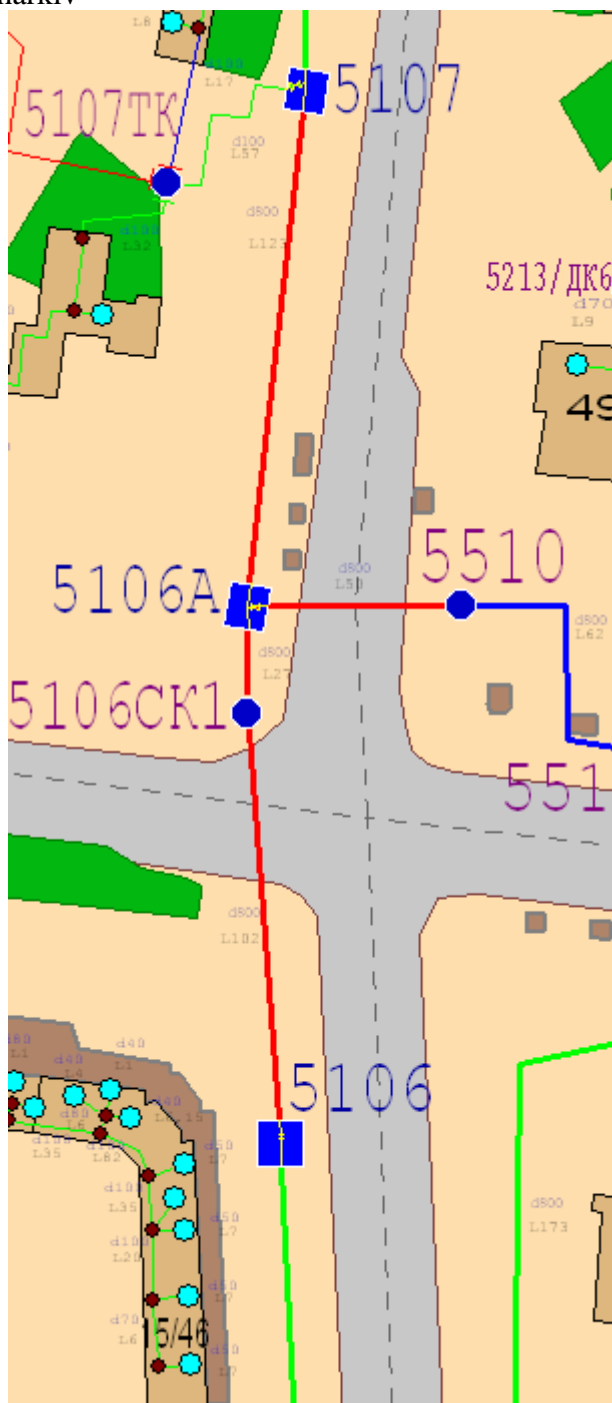
cl.44. Heat networks of the site MK9801-MK9801CK,

cl.45. Heat networks of the site MK9803CK2-MK9804CK1, Petra Hryhorenka ave.



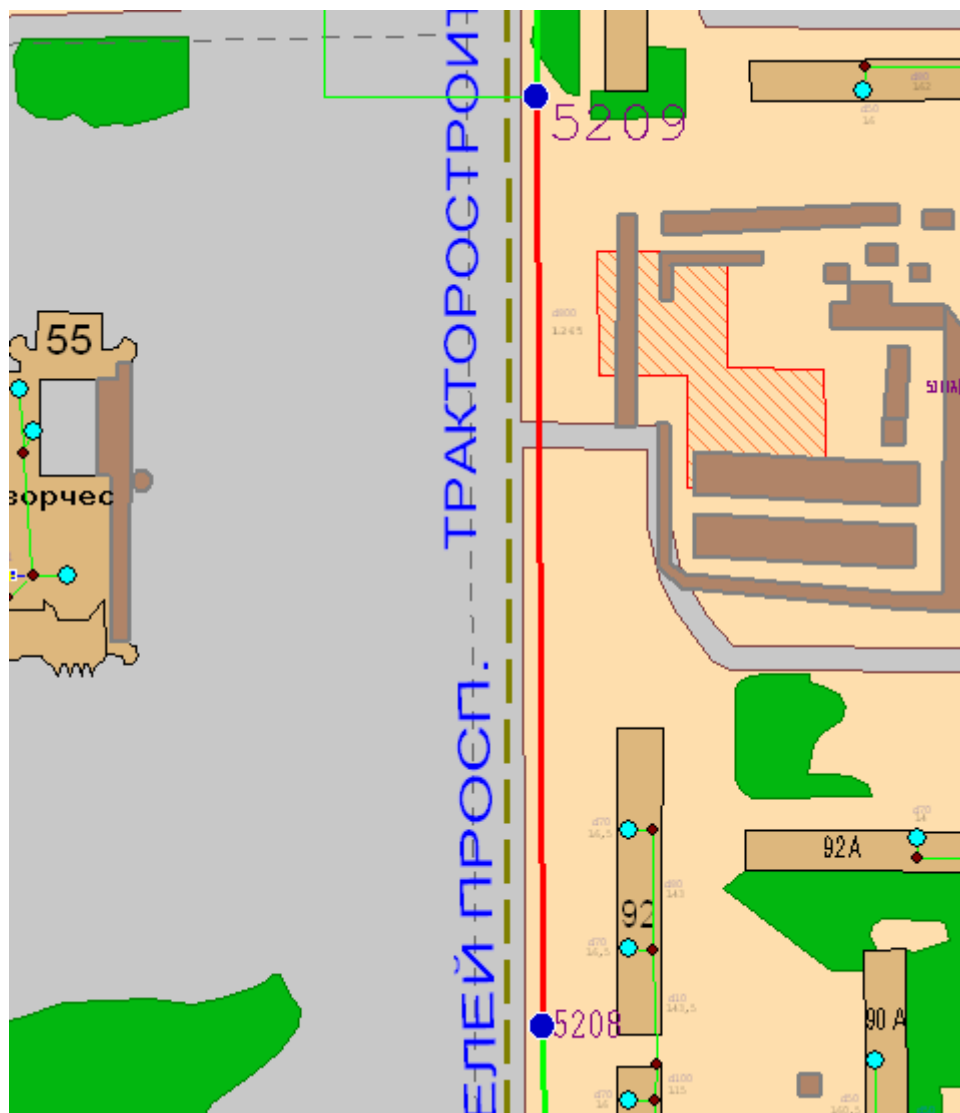
Picture 4.1.8.73

cl.46. Heat networks of the site MK5106A-MK5510, MK5106-MK5107, Hvardiitsiv-Shironintsiv str., Moskovskiyi dstr., Kharkiv



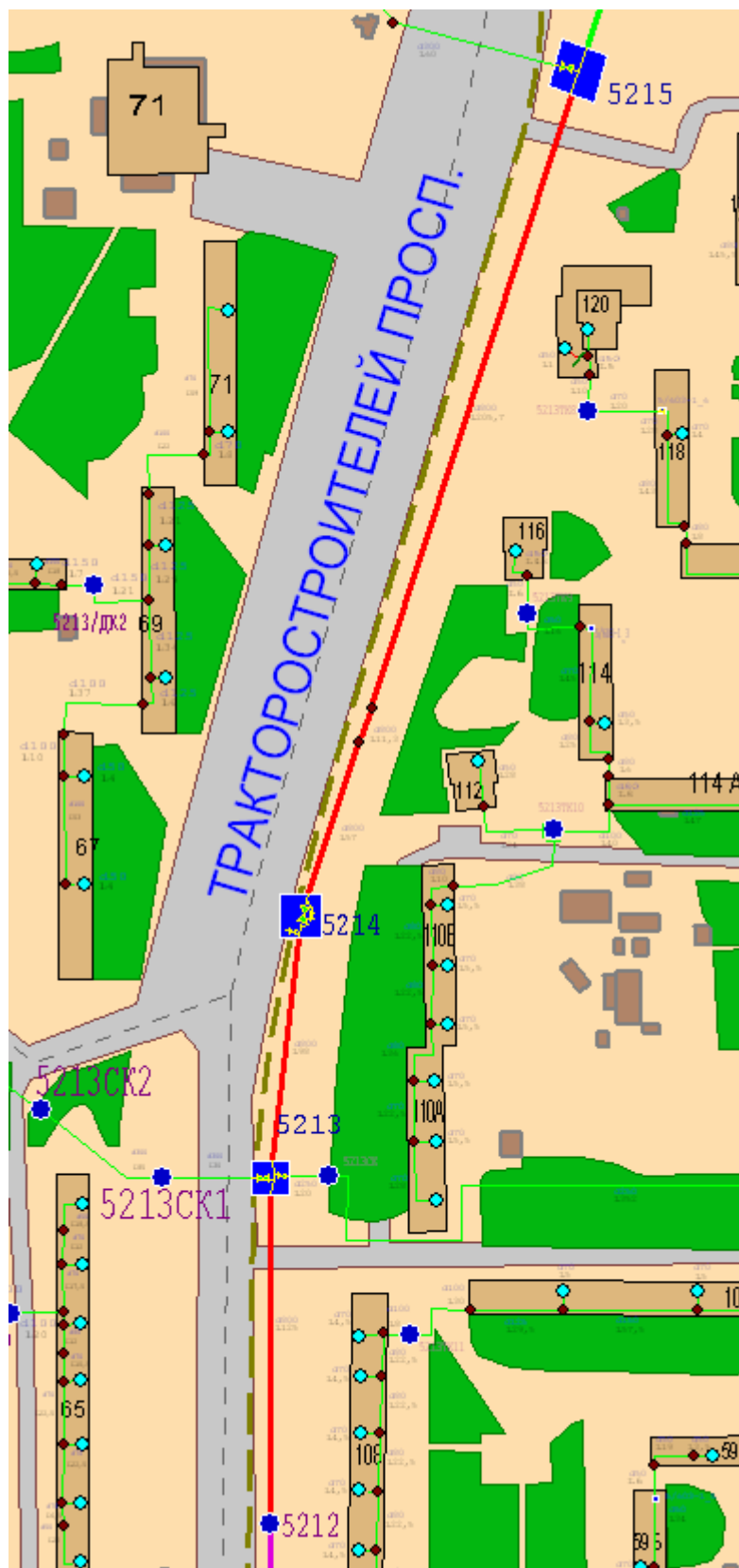
Picture 4.1.8.46

cl.47. Heat networks of the site MK5208-MK5209, Traktorobudivnykiv ave., Moskovskiyi dstr., Kharkiv



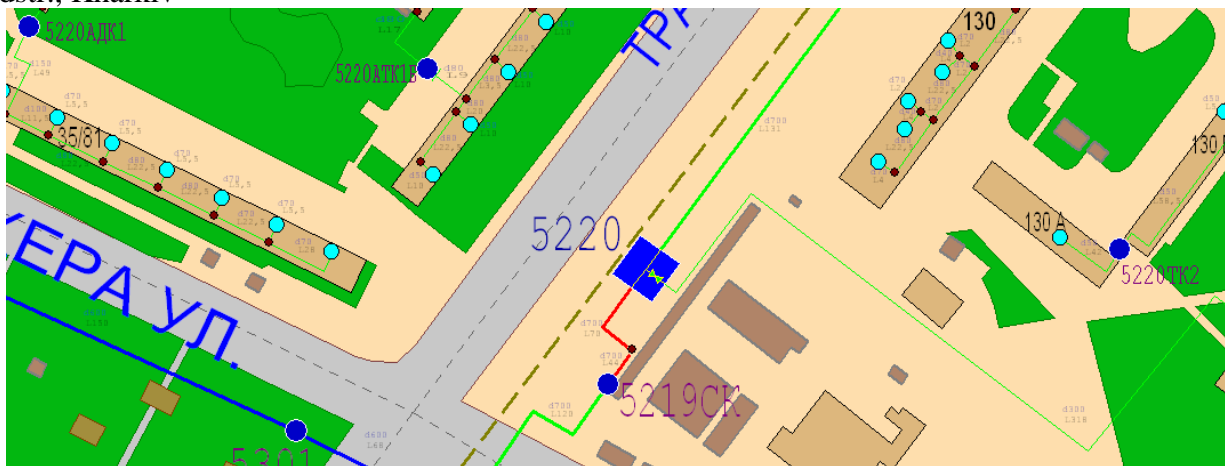
Picture 4.1.8.47

cl.48. Heat networks of the site MK5212-MK5215, Traktorobudivnykiv ave., Moskovskiy dstr., Kharkiv



Picture 4.1.8.48

cl.49. Heat networks of the site MK5219CK-MK5220, Traktorobudivnykiv ave., Moskovskiyi dstr., Kharkiv



Picture 4.1.8.49

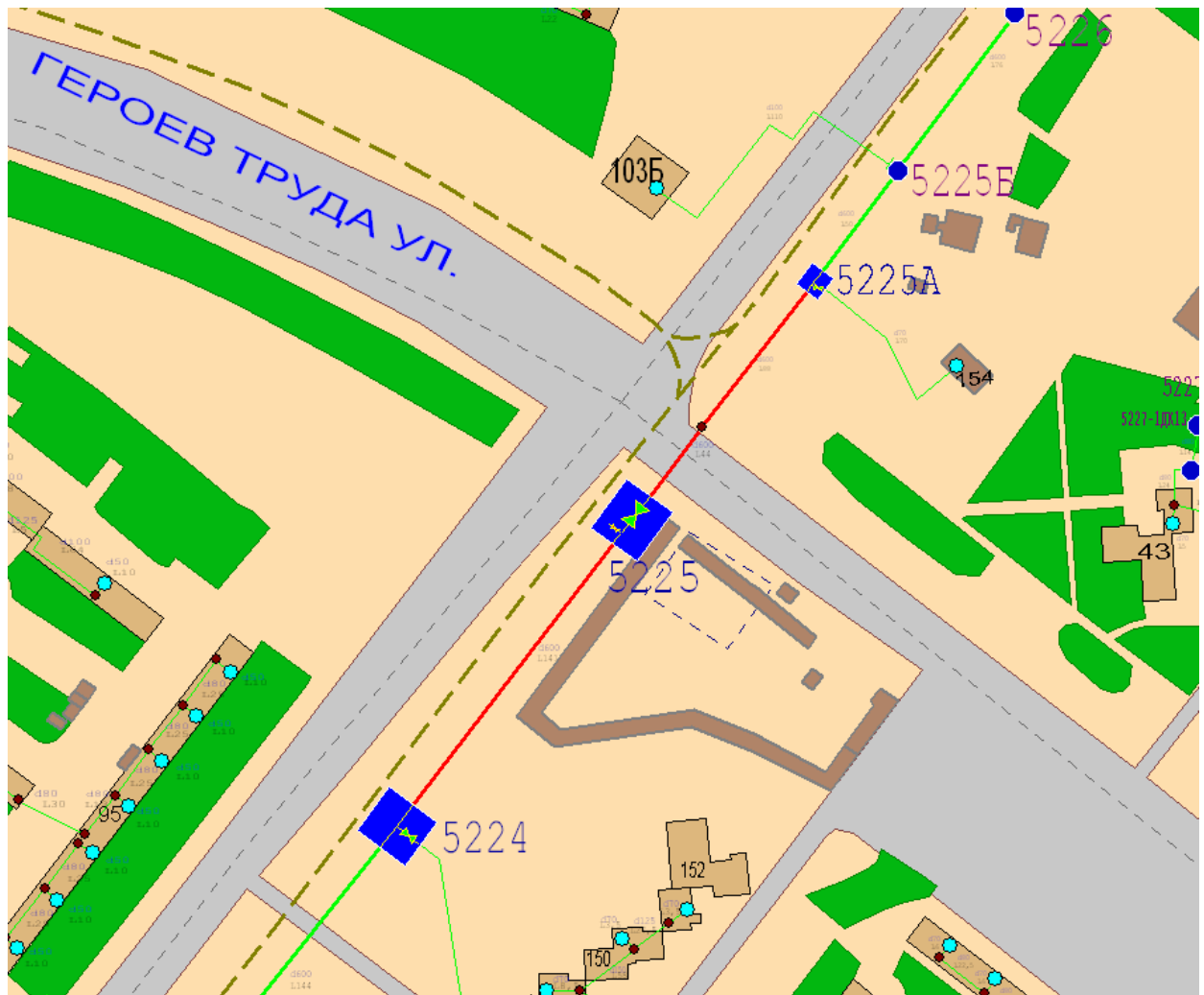
Picture 4.1.8.74

- cl.47. Heat networks of the site MK5208-MK5209,
- cl.48. Heat networks of the site MK5212-MK5215,
- cl.49. Heat networks of the site MK5219CK-MK5220, Traktorobudivnykiv ave.,
- cl.62. Heat networks of the site MK5114-MK5114CK1, in Hvardiitsiv-Shyronintsiv,
- cl.64. Heat networks of the site from MK5220 to CHS 606/1 in 3В, Svitla str.



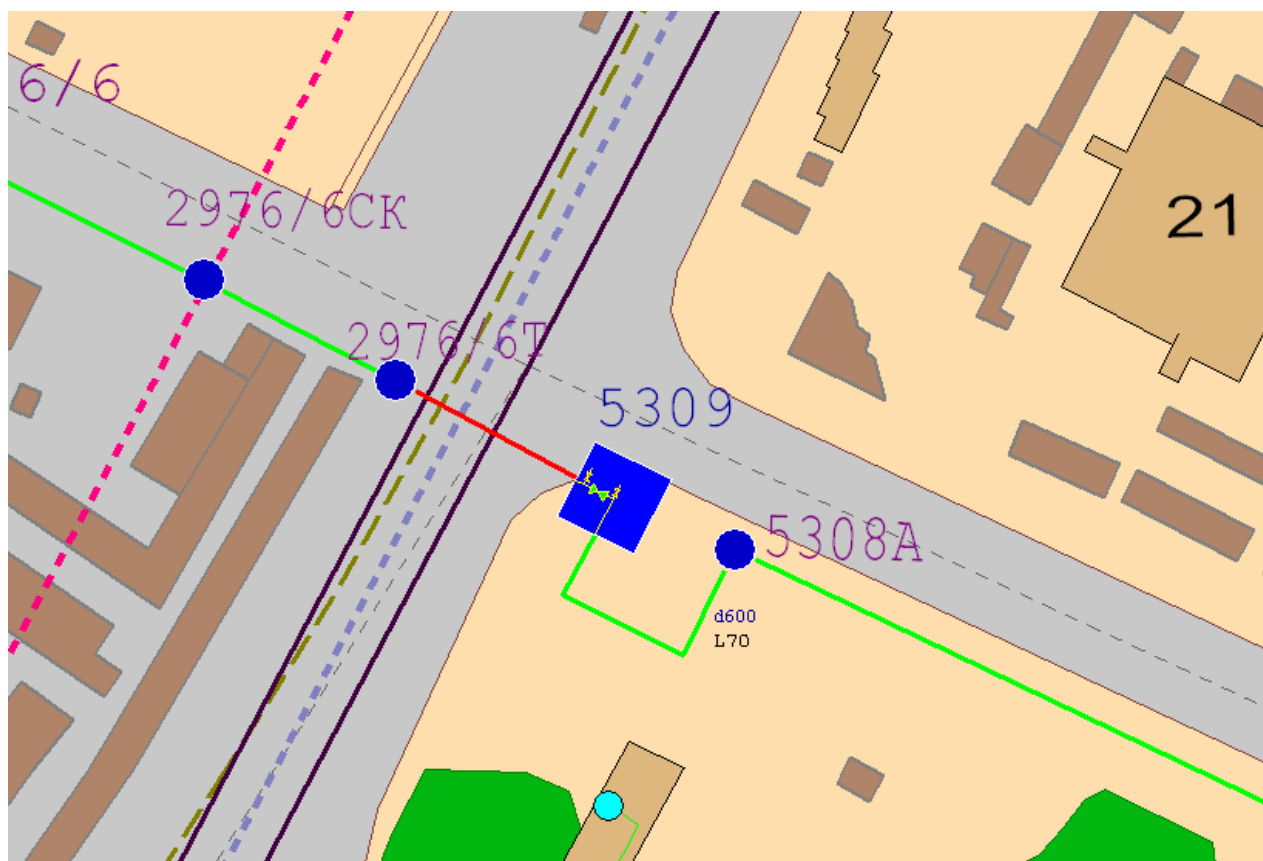
Picture 4.1.8.74

cl.50. Heat networks of the site from MK5224 to MK5225A, Heroiv Pratsi str., Moskovskiyi dstr., Kharkiv



Picture 4.1.8.50

cl.51. Heat networks of the site MK2976 / 6T-MK5309, Akademika Pavlova str., Kyivskiy dstr., Kharkiv



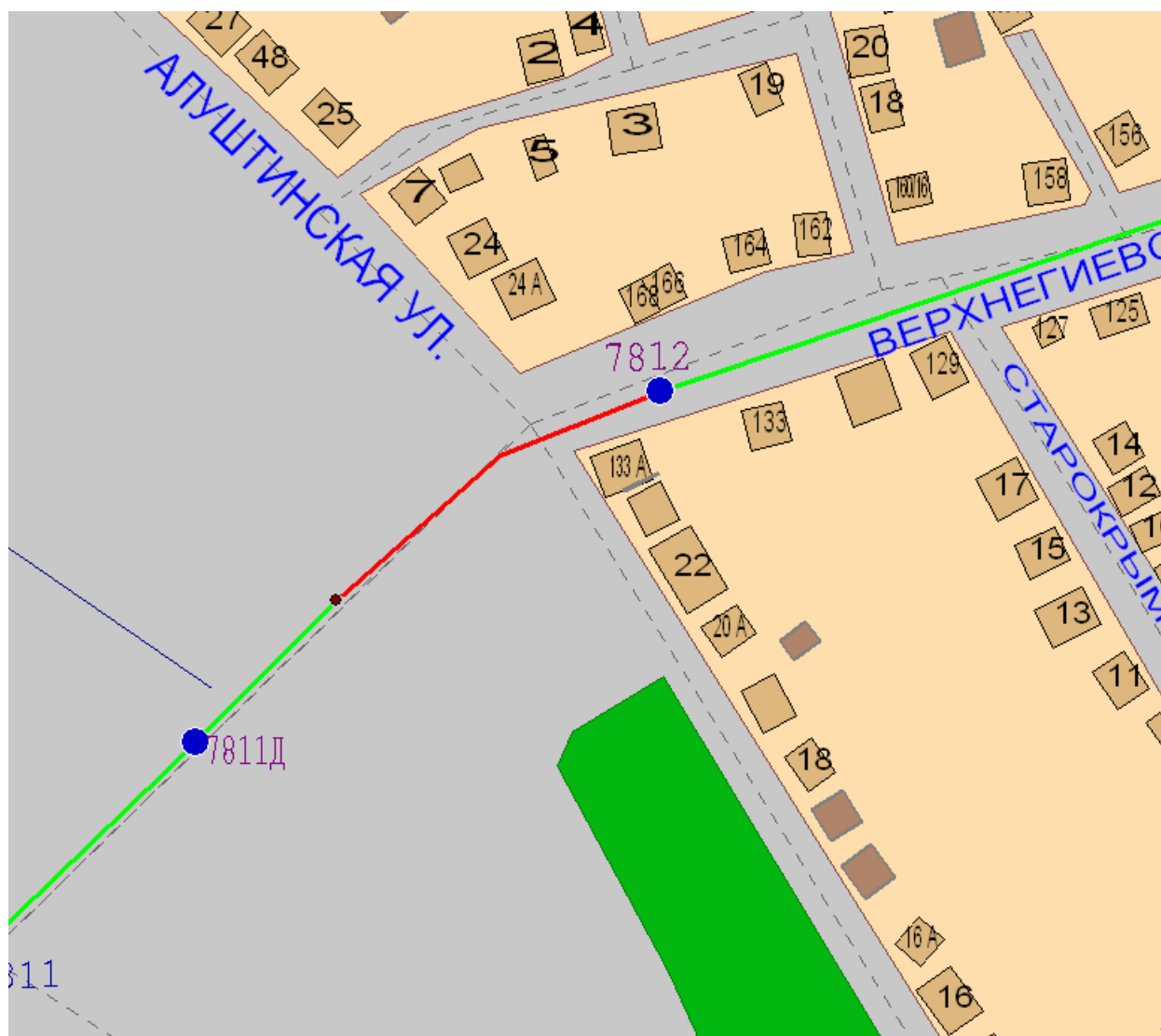
Picture 4.1.8.51

cl.52. Heat networks of the site MK1138 / 5B-MK1138 / 6, Moskovskiy ave., Moskovskiy dstr., Kharkiv



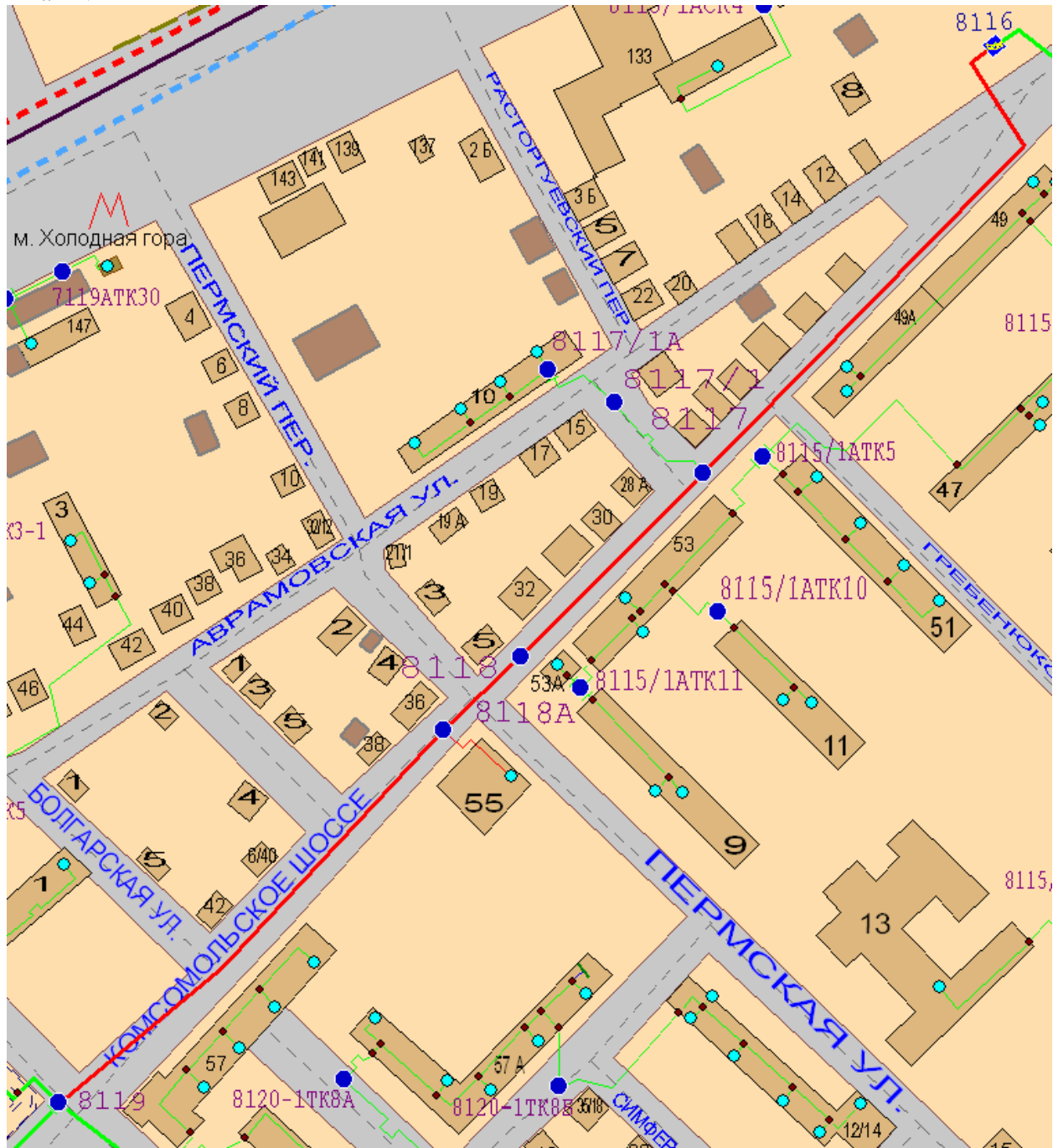
Picture 4.1.8.52

cl.53. Heat networks of the site MK7812-NO22, Alushtinska str., Kholodnohirskiy dstr., Kharkiv



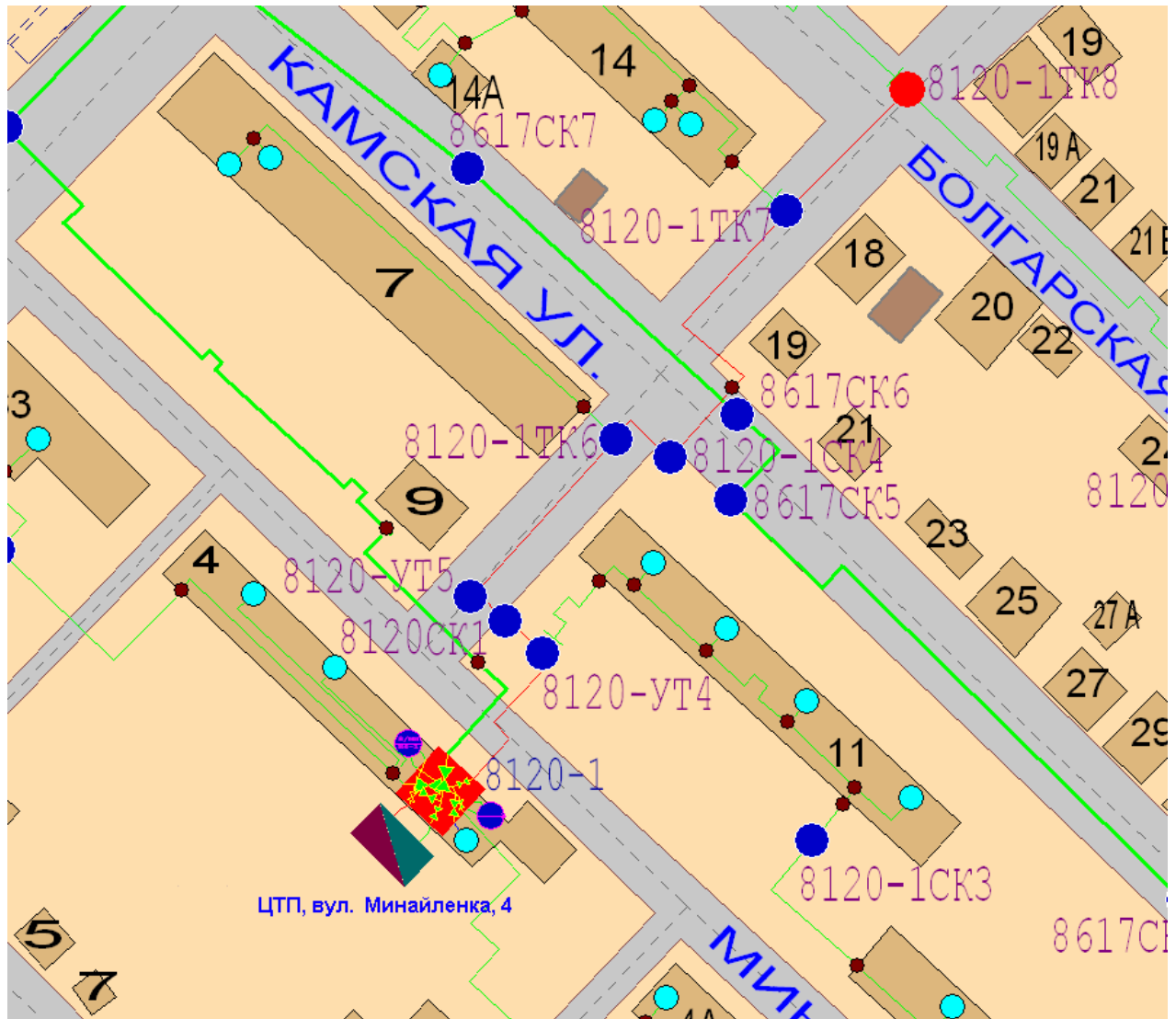
Picture 4.1.8.53

cl.54. Heat networks of the site MK8116-MK8119, Hryhorivske highway, Novobavarskyi dstr., Kharkiv



Picture 4.1.8.54

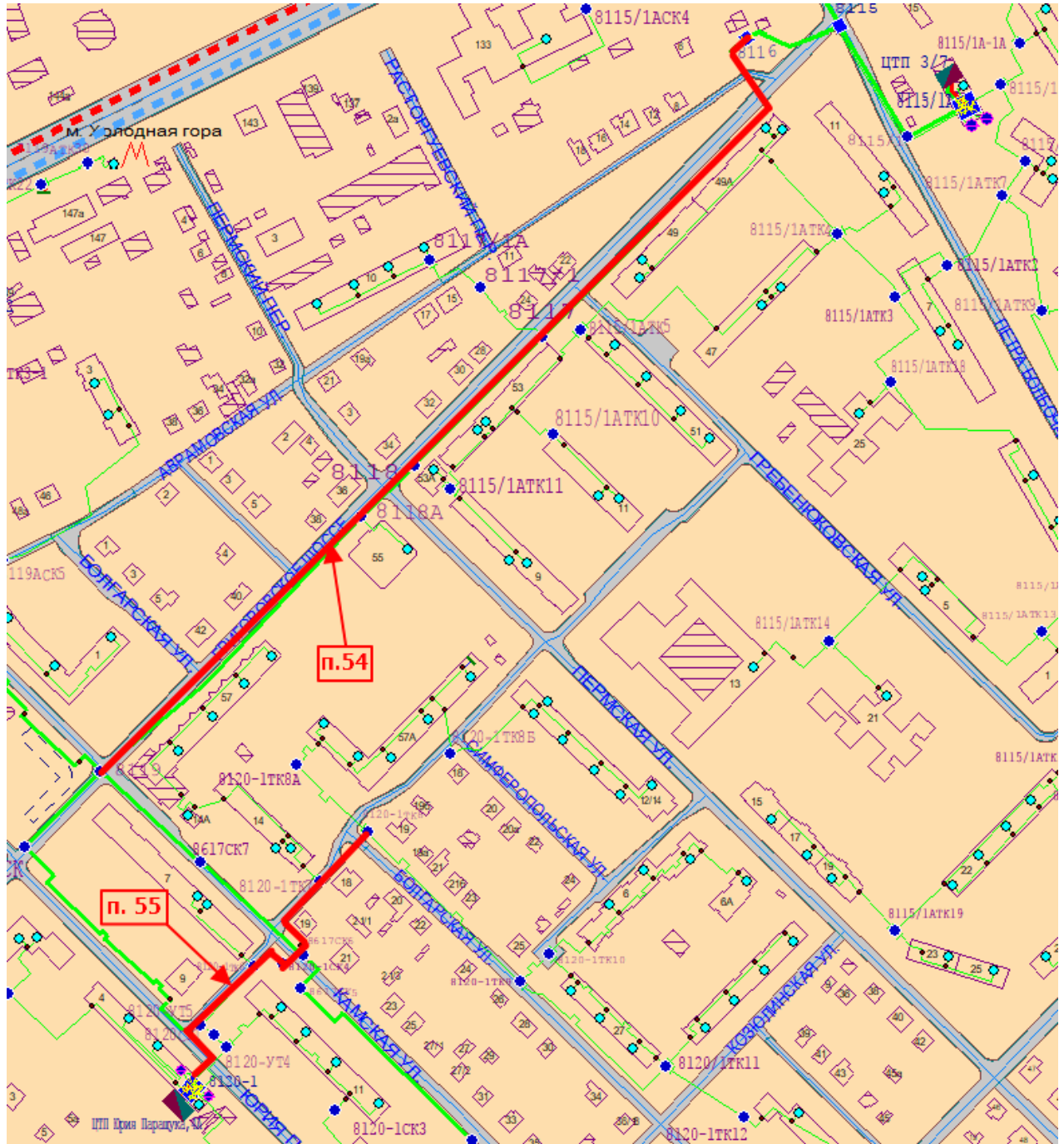
cl.55. Heating CHS network in 4a, Yurii Parashchuka str., from TK8120-1 to TK8120-1TK8, Novobavarskyi dstr., Kharkiv



Picture 4.1.8.55

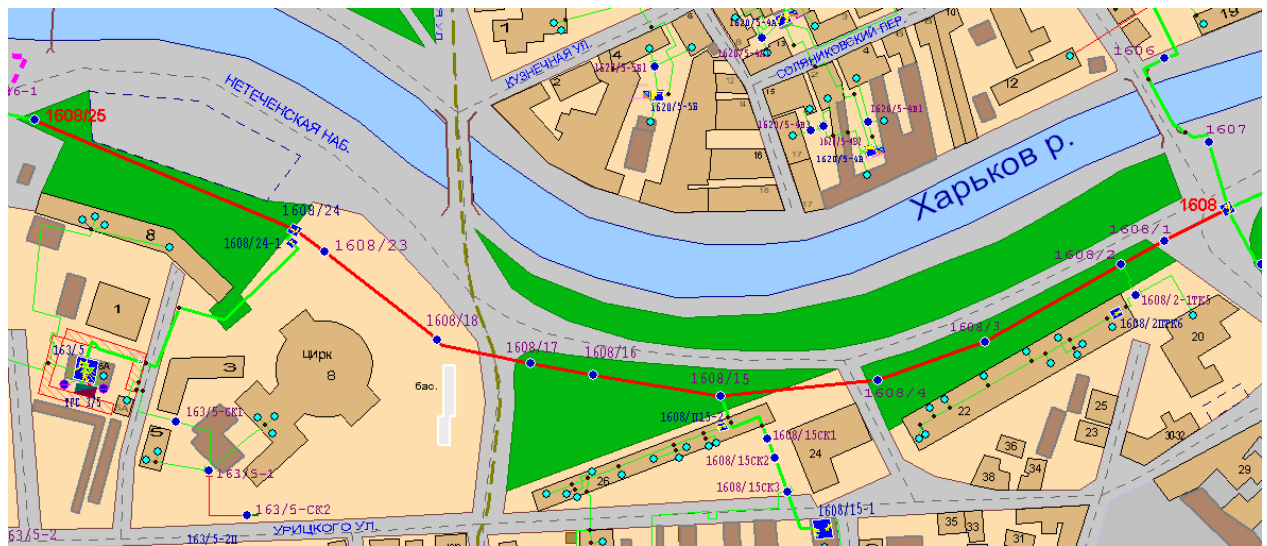
Picture 4.1.8.75

cl.54. Heat networks of the site MK8116-MK8119, Hryhorivske highway,
cl.55. Heating CHS network in 4a, Yurii Parashchuka str., site from TK8120-1 to
TK8120-1TK8.



Picture 4.1.8.75

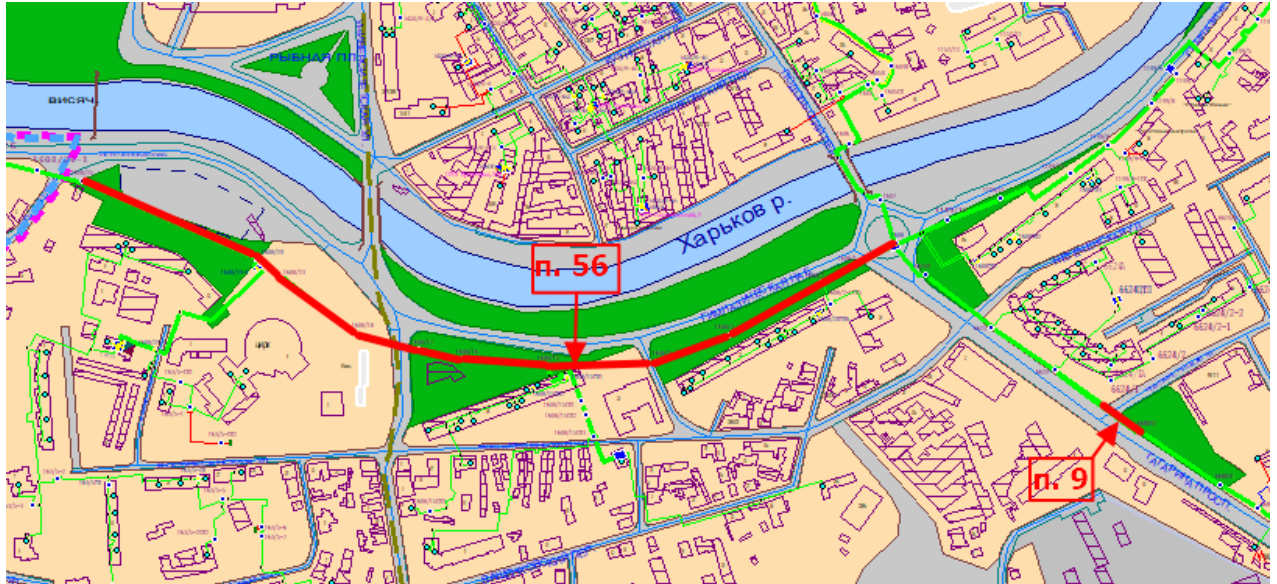
cl.56. Heat networks of the site MK1608-MK1608/25, Himnaziina quay, Osnovianskyi dstr., Kharkiv



Picture 4.1.8.56

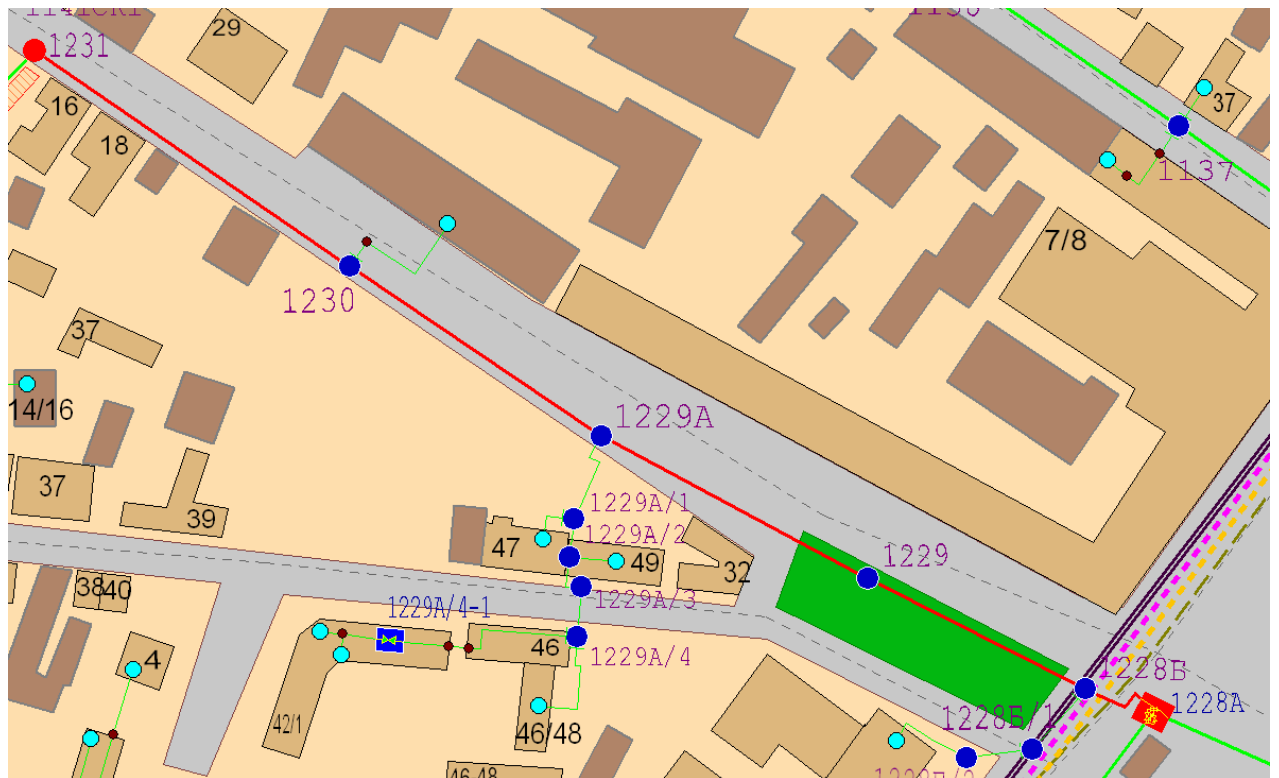
Picture 4.1.8.76

cl.9. Heat networks of the site MK6624-MK66HO42, Gagarina ave.,
cl.56. Heat networks of the site MK1608-MK1608/25, Himnaziina bund.



Picture 4.1.8.76

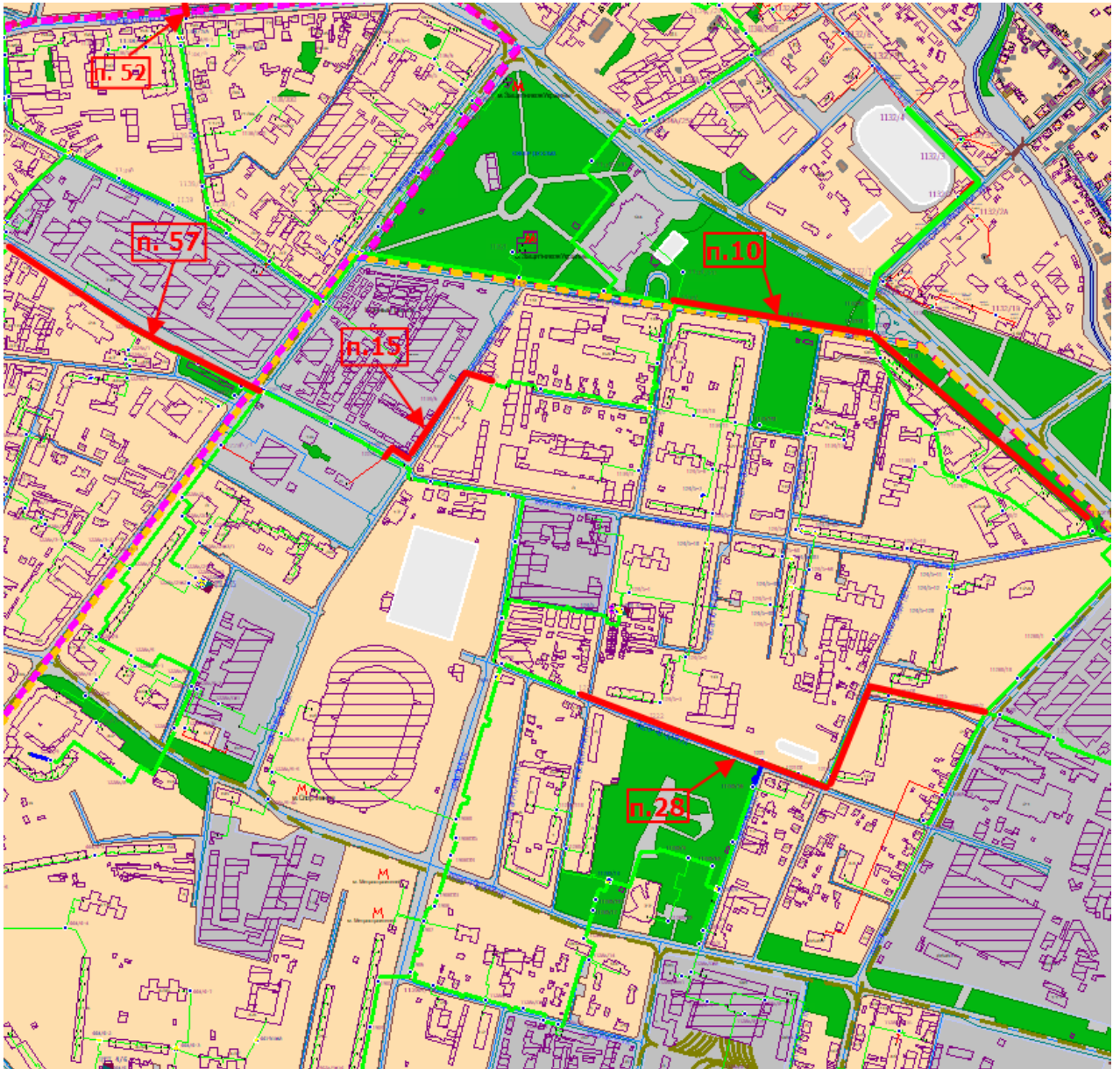
cl.57. Heat networks of the site MK1228A-MK1231, Bohdana Khmelnytskoho str., Slobidskyi dstr., Osnovianskyi dstr., Kharkiv



Picture 4.1.8.57

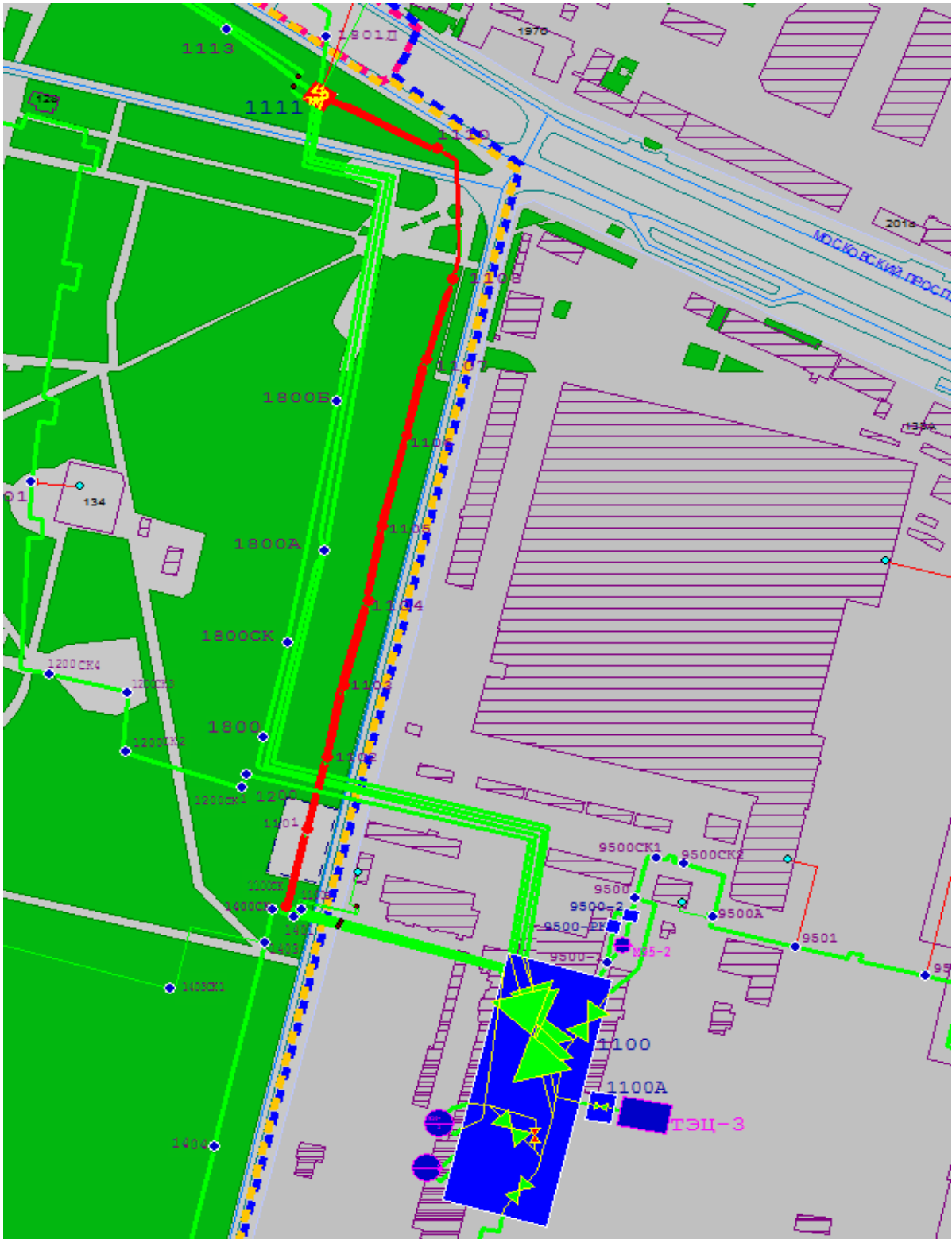
Picture 4.1.8.77

- cl.10. Heat networks of the site MK1129-MK1134, Bronenostsia Potomkin str.,
- cl.15. Heat networks of the site MK1134/5-MK1227A, Zakhisnykiv Ukrainy sqr.,
- cl.28. Heat networks of the site MK1128A/2-MK1223, Dniprovska str.,
- cl.52. Heat networks of the site MK1138/5Б-MK1138/6, Moskovskiyi ave.,
- cl.57. Heat networks of the site MK1228A-MK1231, Bohdana Khmelnytskoho str..



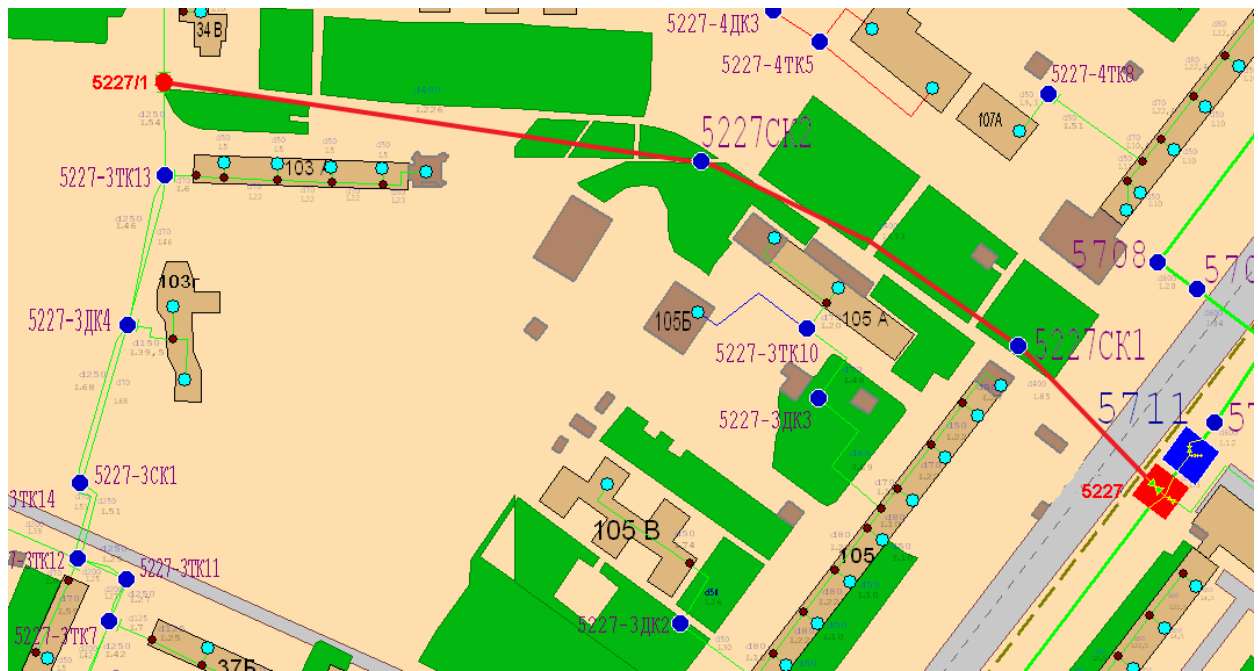
Picture 4.1.8.77

cl.58. Heat networks of the site from CHP-3 to MK1111, Enerhetychna str., Slobidskyi dstr., Kharkiv



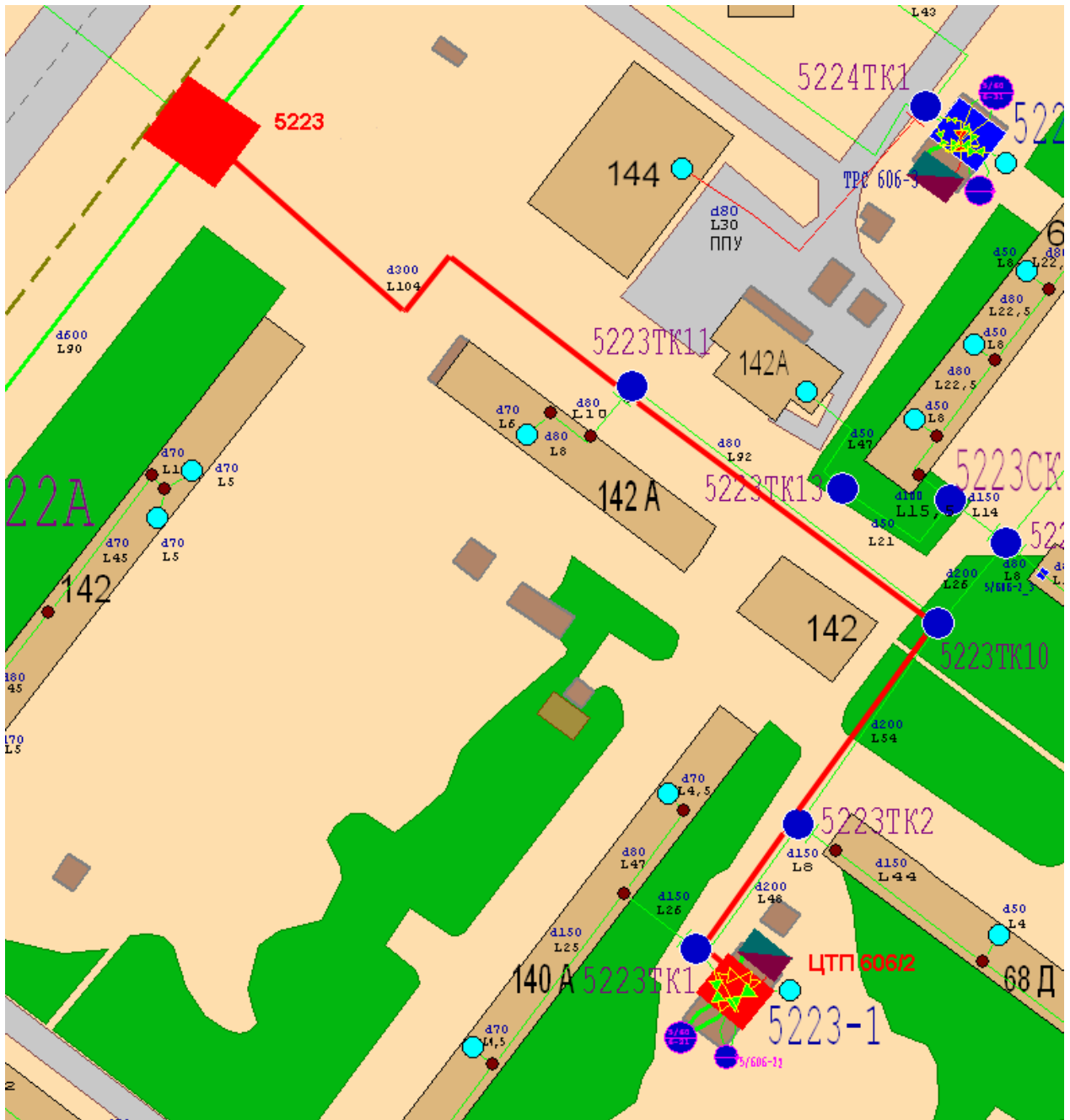
Picture 4.1.8.58

cl.59. Heat networks of the site MK5227-MK5227/1, Traktorobudivnykiv ave., Moskovskiy dstr., Kharkiv



Picture 4.1.8.59

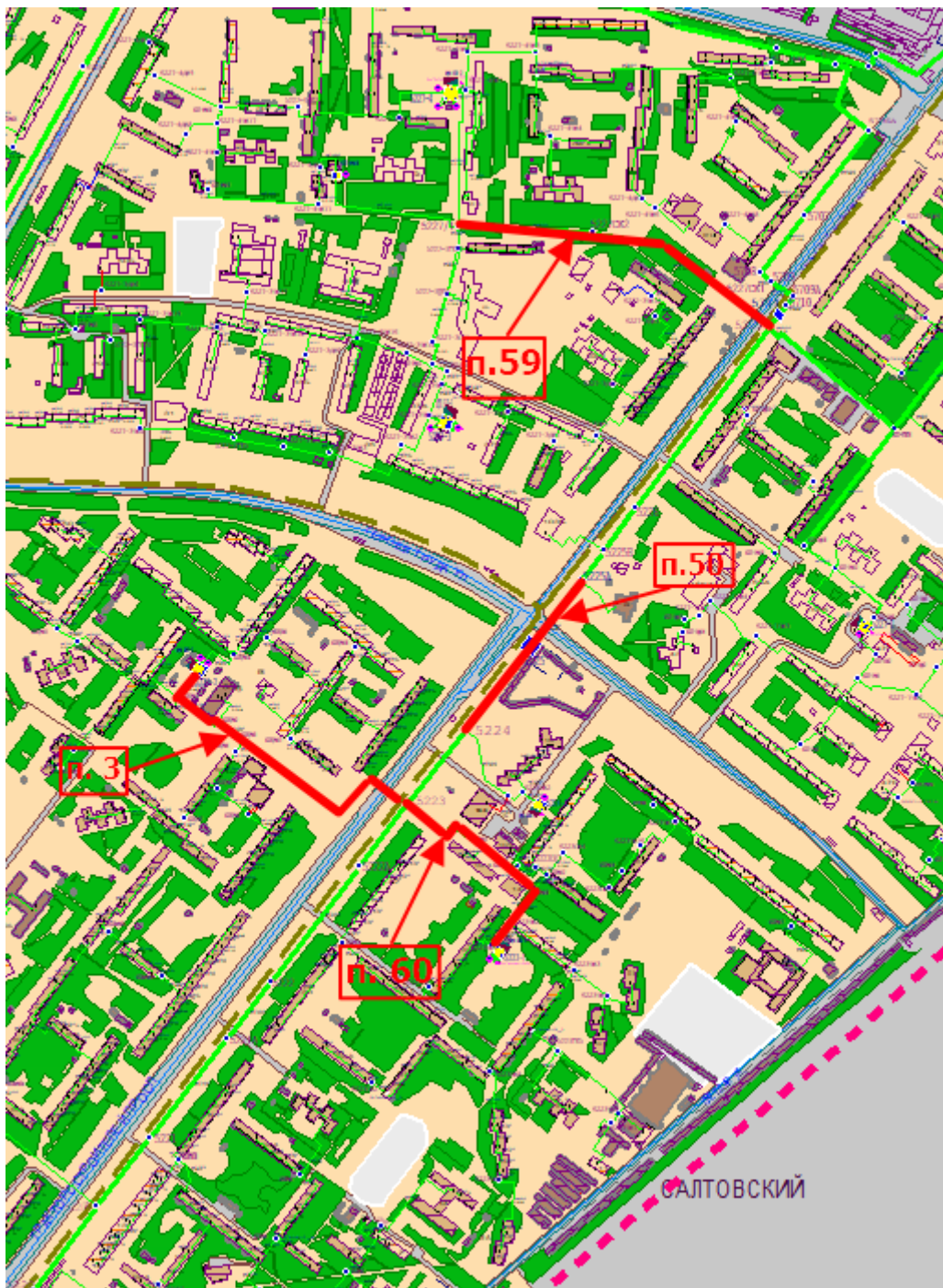
cl.60. Heat networks of the site from MK5223 to CHS 606/2 on 140 G, Traktorobudivnykiv ave., Moskovskiy dstr., Kharkiv



Picture 4.1.8.60

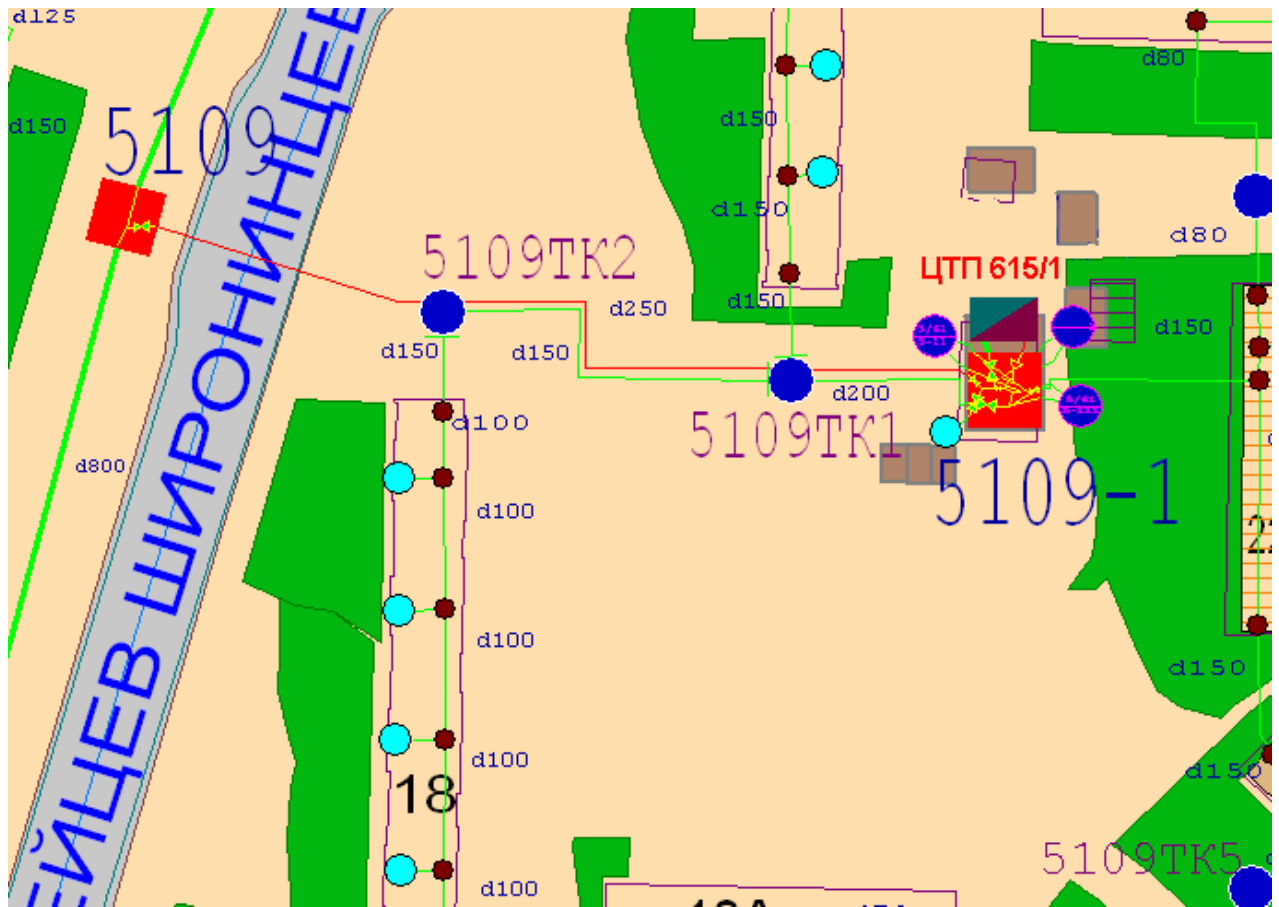
Picture 4.1.8.78

cl.3 Heat networks of the site MK5223 before CHS 607/2 Heroiv Pratsi, 54G,
cl.50. Heat networks of the site from MK5224 to MK5225A, Heroiv Pratsi str.,
cl.59. Heat networks of the site MK5227-MK5227/1,
cl.60. Heat networks of the site from MK5223 to CHS 606/2 in 140r, Traktorobudivnykiv ave.



Picture 4.1.8.78

cl.61. Heat networks of the site from MK5109 to CHS 615/1 on 22V, Hvardiitsiv-Shyronintsiv str., Moskovskiy dstr., Kharkiv

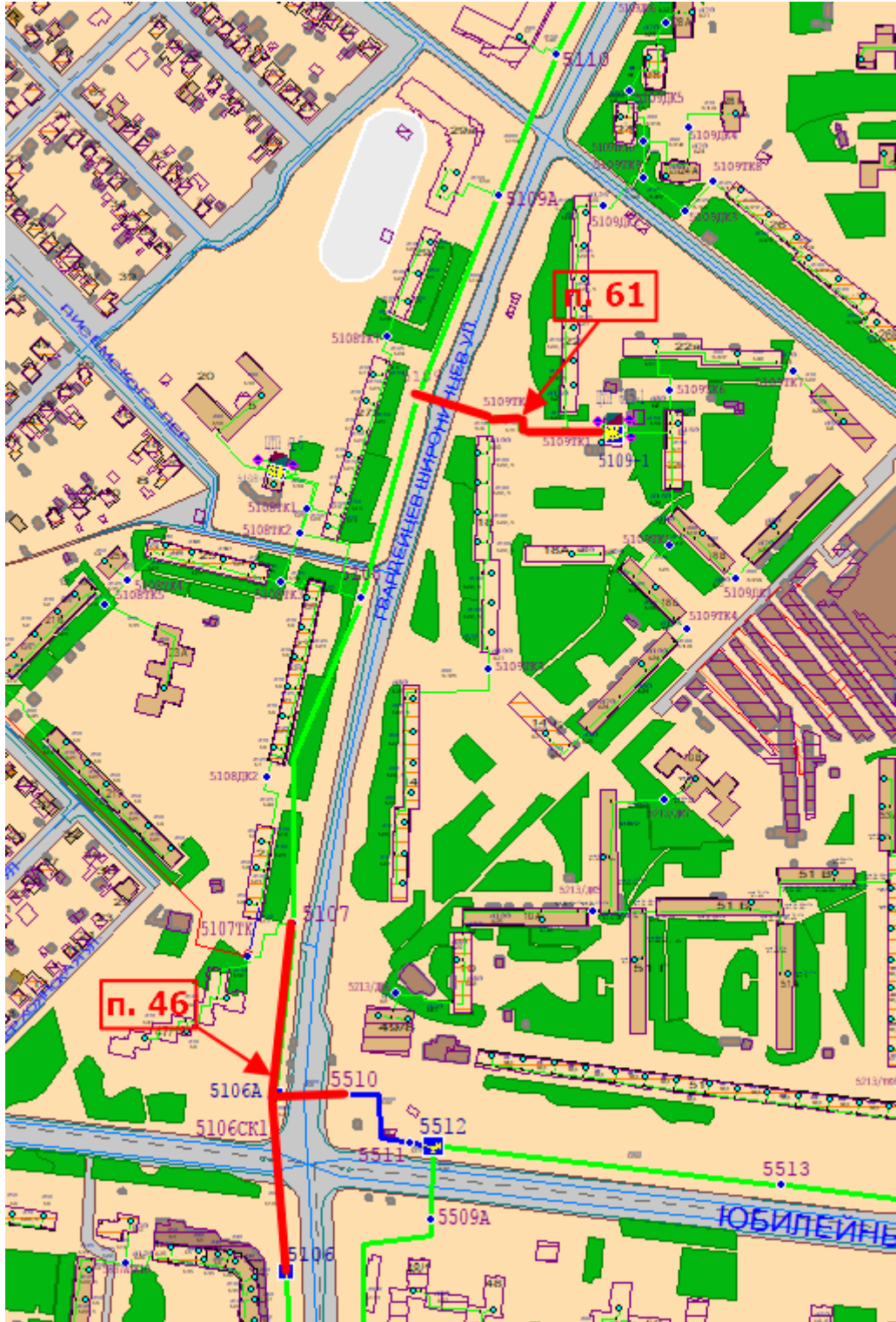


Picture 4.1.8.61

Picture 4.1.8.79

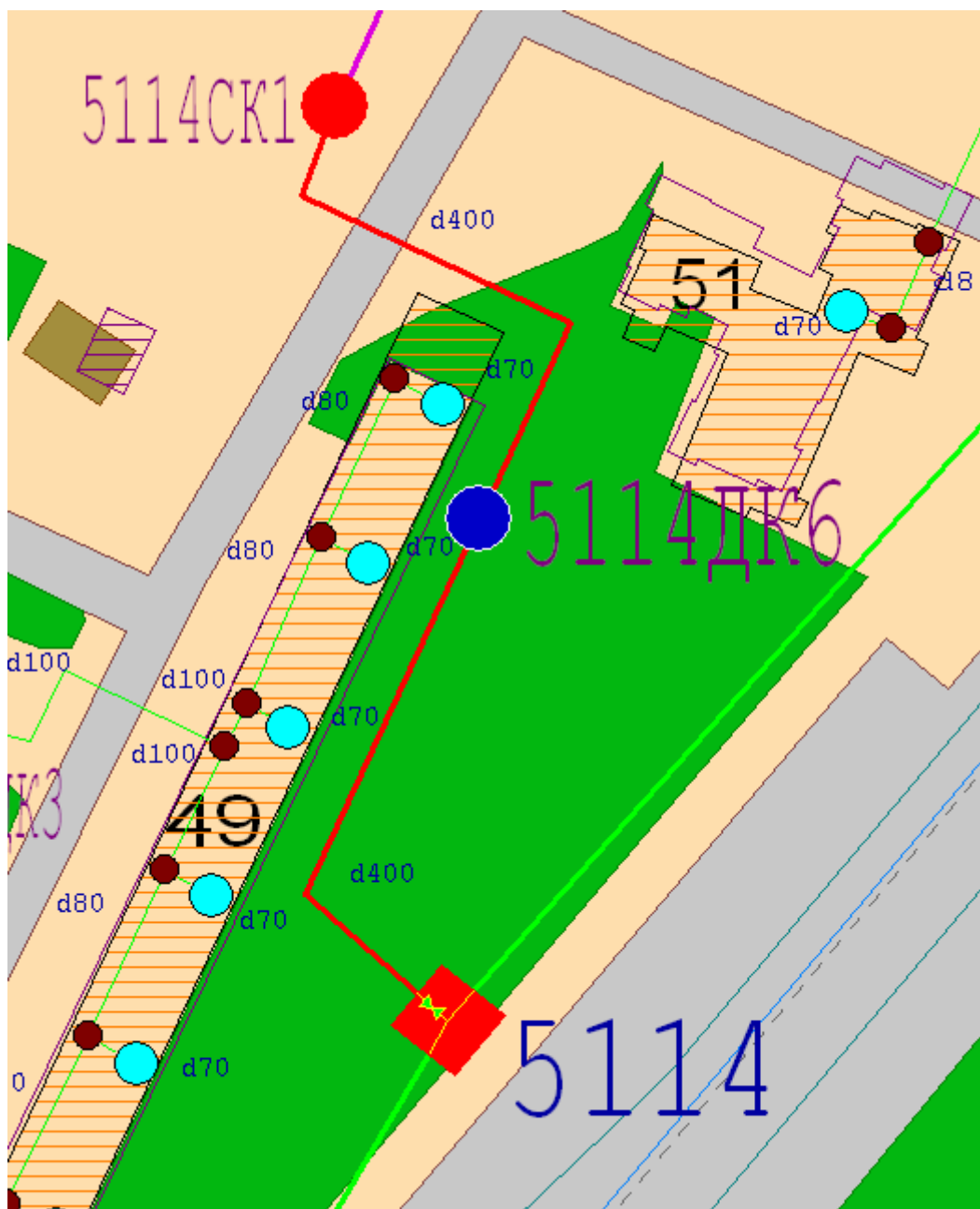
cl.46. Heat networks of the site MK5106A-MK5510, MK5106-MK5107

cl.61. Heat networks of the site from MK5109 to CHS 615/1 on 22V, Hvardiitsiv-Shyronintsiv str.



Picture 4.1.8.79

cl.62. Heat networks of the site MK5114-MK5114CK1, on Hvardiitsiv-Shyronintsiv str., Moskovskiy dstr., Kharkiv



Picture 4.1.8.62

cl.63. Heat networks of the site MK5307A-MK5307A / 1, Valentynivska str., Moskovskiyi dstr., Kharkiv



Picture 4.1.8.63

Picture 4.1.8.80

cl.51. Heat networks of the site MK2976/6T-MK5309, Akademika Pavlova str.,
cl.63. Heat networks of the site MK5307A-MK5307A/1, Valentynivska str.



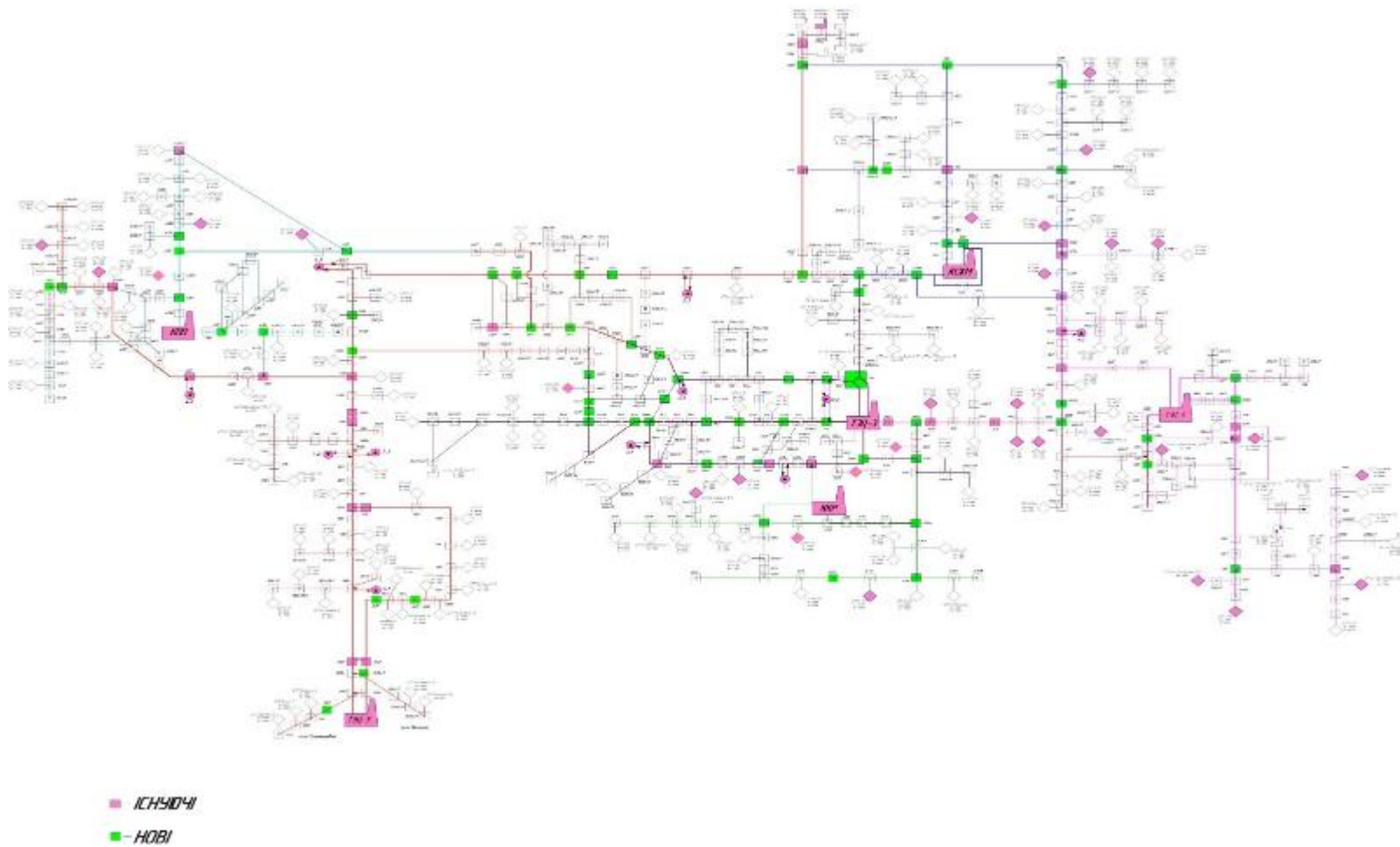
Picture 4.1.8.80

cl.64. Heat networks of the site from MK5220 to CHS 606/1 on 3V, Svitla str., Moskovskiy dstr., Kharkiv



Picture 4.1.8.64

Annex 12. Scheme of development of DHS automation and dispatching systems.



Picture 4.1.9.1.

Annex 13. Front sheet of the relevant documents of volume of the emissions of pollutants into the atmospheric air by the stationary sources.

ДОКУМЕНТИ, У ЯКИХ ОБҐРУНТОВУЮТЬСЯ ОБСЯГИ ВИКИДІВ, ДЛЯ
ОТРИМАННЯ ДОЗВОЛУ НА ВИКИДИ ЗАБРУДНЮЮЧИХ РЕЧОВИН В
АТМОСФЕРНЕ ПОВІТРЯ СТАЦІОНАРНИМИ ДЖЕРЕЛАМИ ДЛЯ

Об'єкту Комунального підприємства «Харківські теплові мережі»
котельна за адресою: м. Харків, пр. Гагаріна, 262
(Червонозаводська філія)

(НАЗВА ОБ'ЄКТА)

Виконавчий директор
ТОВ «УкрНДІкомунпроект»

(посада керівника організації, установи, закладу – розробника документів)

01.10.2014
(дата)



(підпис)

Щербаченко Н.В.

(прізвище, ім'я та по батькові)

Лебедь Юлія Іванівна

Посвідчення № 19/05

від 26 вересня 2008 р.

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Генеральний директор КП «ХТМ»

(посада керівника суб'єкта господарювання)

01.10.2014
(дата)



Андрєєв С.Ю.

(прізвище, ім'я та по батькові)

Харків, 2014

Annex 14. RPIU composition and authorities.

Full name	Position	Name of the organization, address	Principal functional responsibilities	Contact details
Roman Yevhenovych Zinchenko	RPIU Director	PU “Kharkivski teplovi merezhi”, 61037, Kharkiv, Mefodiivska str., 11	Overall responsibility for the Project implementation at the enterprise, coordination and management of the group activities, quality control of measures within the framework of the Project, operational communication with interested parties, planning, monitoring of performance of contracts, evaluation of achieving the indexes of the Project execution.	(57) 758 53 42 (57) 738 71 20 zinchenko.r.e@hts.kh.ua
Yana Anatolivna Popova	Financial manager	PU “Kharkivski teplovi merezhi”, 61037, Kharkiv, Mefodiivska str., 11	Preparation of applications and packages of documents for withdrawal of money, execution of applications for replenishment, preparation of financial statements, promoting of conducting of the annual audits. Responsibility for accounting records of the Project, financial statements and financial control in accordance with legislation	(57) 758 53 42 (57) 738 71 20 popova.y@hts.kh.ua

			of Ukraine, organization and maintenance of accounting records of the financial operations within the range of the Project.	
Maryna Yevhenivna Kritsyna	Purchasing specialist	PU “Kharkivski teplovi merezhi”, 61037, Kharkiv, Mefodiivska str., 11	Preparation of the packages of documents for purchases, control and planning of purchases, preparation of accounting statements.	(57) 758 53 42 (57) 738 71 20 verelusova.m.e@hts.kh.ua
Daryna Serhiivna Bondarchuk	Purchasing specialist	PU “Kharkivski teplovi merezhi”, 61037, Kharkiv, Mefodiivska str., 11	Preparation of the packages of documents for purchases, control and planning of purchases, preparation of accounting statements.	(57) 758 53 42 (57) 738 71 20 bondarchuk.d.s@hte.vl.net.ua
Pavlo Vasyliovych Cherniak	Technical specialist (engineer)	PU “Kharkivski teplovi merezhi”, 61037, Kharkiv, Mefodiivska str., 11	Designing and checking of technical specifications, operation requirements, performance specifications, evaluation of technical documentation, checking of the project documentation, work progress monitoring.	(57) 758 53 42 (57) 738 71 20 chernyak.p.v@hts.kh.ua
Liudmila Hennadiivna Tkachova	Environmental engineer (ecologist)	PU “Kharkivski teplovi merezhi”, 61037, Kharkiv, Mefodiivska str., 11	Determination and analysis of potential impacts from the works within a scope of the Project, provision of availability of the required documentation (report from EIA, EPSMP, etc.), securing of considering all	(57) 758 53 42 (57) 738 71 20 tkachova.l.g@hts.kh.ua

			the necessary attenuation measures, agreeing with contractors of the full list of obligatory environmental requirements.	
Yevheniia Radomirovna Boiko	Engineer	PU “Kharkivski teplovi merezhi”, 11, Mefodiivska str., 61037, Kharkiv	Preparation of the performance specifications for purchases of consultation services, technical specifications and technical requirements for purchase of works, connected with designing, supply and installation of the equipment. Preparation of reports concerning evaluation of expression of interest and technical evaluation of the bids. Maintenance of database and records relatively to the technical aspects of contracts to be executed within a scope of the Project. Paperwork management.	(57) 758 53 42 (57) 738 71 20 boyko.y.r@hts.kh.ua

Annex 15. List of the third parties which will be involved in work execution.

Name of the organization	Place, address	Functions during the subproject implementation	Executed works	Responsible person/contact data
Public utility company “Sanepidemservice”	104, Holdberhivska str., Kharkiv	Ground layer control		Kryvonos K.A. / (057)-733-25-02

Annex 16. Front sheet of EIA project of construction of cogeneration plant at the boiler house at the address 4, Artema Vedelia (Stoletova) str.

Общество с ограниченной ответственностью
«Инженерно-производственное предприятие
«ЭНЕРГООЧИСТКА»

Лицензия Министерства регионального развития и строительства Украины АВ №559267 от
22.10.2010 г.

Заказчик: КП «Харьковские тепловые сети»

Оценка воздействия на окружающую среду (ОВОС)

строительства когенерационной станции тепловой мощностью
4288 кВт и электрической мощностью 4000кВт на котельной по
ул. Столетова, 4 в г. Харьков

Руководитель работ,
Директор
ООО "ИПП "Энергоочистка"



Т.В. Бурейко

Харьков - 2010

Annex 17. Statement of the environmental results of the project activities.

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6 ДЕКАБРЯ 2010 Г.
№ 286 (4359)

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тел. 315-00-13, 750-97-45

Annex 18. Public hearing minutes on construction of cogeneration plant at the address 4, Artema Vedelia (Stoletova) str .



**Протокол общественных слушаний
По вопросу строительства когенерационной станции
тепловой мощностью 4288 кВт и электрической мощностью 4000кВт
на котельной по ул. Столетова, 4 в г. Харьков**

Харьков

«22» декабря 2010г.

Место проведения: ул. Столетова, 4 актовый зал
Информационное сообщение опубликовано в газете «Премьер» от 30 ноября-6 декабря 2010 года №286 (4359).

Организатор общественных слушаний ХГО «Партнерство»

Председатель: Тальянский А.Б.

Секретарь: Прудникова Д.А.

ПРИСУТСТВОВАЛИ:

Представитель Харьковского городского совета:	
начальник отдела экологии Департамента жилищно-коммунального хозяйства и энергетики	Богатырь В.И.
Представитель КП «Харьковские тепловые сети»:	
заместитель начальника производственно-технологической группы	Зинченко Р.Е.
Представитель генпроектировщика ИП СПКТБ «Тор»	Рыженкова С.С.
Представитель разработчика раздела ОВОС директор ООО «ИПП «Энергоочистка»	Бурейко Т. В. Зусманович Т.Я.
физическое лицо - предприниматель	Молчанова Л.В. Молчанов А.Е.
Представители общественности:	Колесник Т.Н. Жаринова Н.Н. Лисовой А.Д. Патаусов В.А.

Товестка дня:

Строительство когенерационной станции тепловой мощностью 4288 кВт и электрической мощностью 4000кВт на котельной по ул. Столетова, 4 в Фрунзенском районе г. Харькова.

Слушали:

директора ООО «ИПП «Энергоочистка» Бурейко Т.В.

По данному вопросу предоставлена информация о строительстве когенерационной станции

- установками TEDOM CAT 2000 с генераторными агрегатами Caterpillar G3520C LE и
- технологическим модулем утилизации отработанных газов TM C2000 с целью снижения затрат на
- потребляемые энергоресурсы и обеспечения качественного, бесперебойного

ергоснабжения населения. Производственная деятельность не приведет к нарушениям Закона Украины «Про охорону навколишнього природного середовища».

Рабочим проектом предусматривается установка оборудования когенерационных установок DOM CAT2000 фирмы ZEPPELIN, в состав которых входит технологический модуль TM C2000 двигатель-генератор Caterpillar G3520C, сетевых насосов фирмы Wilo, охладители жидкости чуждые фирмы Альфа-Лаваль для охлаждения двигателя.

Потенциальным источником воздействия когенерационной станции являются выбросы загрязняющих веществ от теплогенерирующих модулей.

Для определения концентраций загрязняющих веществ, содержащихся в выбросах от устанавливаемого оборудования был проведен расчет загрязнения атмосферы. Максимальные концентрации загрязняющих веществ в контрольных точках на границе санитарной территории составляют: 0,46 ПДК по двуокиси азота, 0,78 ПДК по углерода окиси.

Планируемая деятельность соответствует градостроительной документации, отвечающей требованиям градостроительного законодательства. Положительным социально-экономическим эффектом реализации планируемой деятельности является снижение себестоимости выпускаемой тепловой энергии в тепловую сеть за счет сочетания технологии высокоэффективного использования первичного источника энергии — природного газа, для получения двух форм энергии — тепловой и электрической.

При соблюдении правил эксплуатации, технологического обслуживания и техники безопасности, исключается возможность негативного влияния на грунты, нанесение ущерба земельным ресурсам и зеленым насаждениям района. Влияние эксплуатации проектируемых когенерационных установок прогнозируется в пределах стойкости всех элементов существующей системы.

ступили:

Представитель заказчика – Заместитель начальника производственно-технологической группы КП «Харьковские тепловые сети» Зинченко Р.Е.

Представитель Харьковского городского совета - Богатырь В.И.

шили:

Согласиться с предложением о строительстве когенерационной станции тепловой мощностью 4288 кВт и электрической мощностью 4000кВт на котельной по ул. Столетова, 4 в г. Харькове.

Жители района будут иметь возможность получать необходимые услуги и не возражают против запланированного строительства.

Писали присутствующих участников слушаний

Богатырь В.И.

Зинченко Р.Е.

Пьянский А.Б.

Семанович Т.Я.

Сейко Т.В.

Судникова Д.А.

Представители общественности

Солтанова Л.В.

Солтанов А.Е.

Слесник Т.Н.

Сринова Н.Н.

Серовой А.Д.

Слаусов В.А.



Annex 19. Photo of holding of public discussions dated January 09, 2014





MINUTES

of the public hearing of the Environmental and Social Assessment Program of the Project “Efficiency improvement in the sector of the district heating of Ukraine”, which is implemented on account of loan funds of the World Bank in Kharkov.

January 9, 2014

Kharkov

Place of holding: 11, Dobrokhotova str., 5 floor, Kharkov, assembly hall of the public utility company “Kharkivski teplovi merezhi”, 10⁰⁰ by local time.

Public Hearing Chairman: Nikolai Andriianovich Kolesnik.

Public Hearing Secretary: Marina Yevhenevna Vereliusova.

Present at public hearing:

On behalf of public utility company “Kharkivski teplovi merezhi”:

Yevhenii Andreevich Zinchenko, chief engineer of the public utility company “Kharkivski teplovi merezhi”, work group leader of the Project;

Nikolai Andriianovich Kolesnik, deputy General director of the public utility company “Kharkivski teplovi merezhi”;

Andrei Petrovich Repin, deputy Chief engineer of the public utility company “Kharkivski teplovi merezhi”, member of the work group;

Roman Yevhenevich Zinchenko, deputy Head of production and technical service of the public utility company “Kharkivski teplovi merezhi”, member of the work group;

Liudmila Hennadiivna Tkacheva, engineer-ecologist of the public utility company “Kharkivski teplovi merezhi”, member of the work group.

On behalf of the Department of the public services of Kharkov municipal council.

Yuliia Vadimovna Litvinova, head of ecology department of the Department of the public services of Kharkov municipal council

On behalf of Kharkov national university of municipal service after A.N.Beketova:

Viacheslav Aleksandrovich Tkachev, Dr.-Ing., docent, dean of the Faculty of engineering ecology of cities;

Aleksandr Vasilevich Romashko, Dr.-Ing., docent, deputy Dean for training activity of the Faculty of engineering ecology of cities;

Feliks Vladimirovich Stolberg, D.Eng.Sc., professor, Head of Chair of the engineering ecology and ecological security of cities;

Nikolai Ivanovich Shpika, Dr.-Ing., docent, Dean of the Faculty of electrical transport.

Andrei Aleksandrovich Aleksakhin.

On behalf of Kharkov scientific and technical society of the public services and domestic services

Raisa Vasilevna Sviridova

Registered members of the public hearing of the Environmental and Social Assessment Program in amount of 188 members (lists of the members are attached to the minutes, in Annex 1).

Agenda

Discussion of the Environmental and Social Assessment Program of the Project of modernization of the system of district heating of Ukraine in Kharkov, as well as Frame plan of the environmental management at stages of construction and operation and Monitoring plan.

1. Approval of hearing regulation.

HEARD:

Of approval of hearing regulation.

SPOKE:

Kolesnik N.A. – proposed to approve the regulation of the public hearing as follows:

for reports and statements – up to 20 minutes;

for answers to questions – up to 5 minutes.

The questions can be put both orally from place, and in writing, via secretariat. When asking a question orally, you need raise your hand, wait for permission of the Chairman of public hearing, after what stand up, present yourself – give your surname, first name and patronymic and clearly explain heart of the problem. When transferring the question to secretariat in writing, indicate surname, first name and patronymic and heart of the problem.

Voted unanimously.

RESOLVED:

Approve the regulation of hearing as follows:

for reports and statements – up to 20 minutes;

for answers to questions – up to 5 minutes.

HEARD:

Of the Environmental and Social Assessment Program of the Project of modernization of the system of district heating of Ukraine in Kharkov, as well as of as well as Frame plan of the environmental management at stages of construction and operation and Monitoring plan.

DELIVERED the reports:

1. Zinchenko E.A. – of implementation of the Project of modernization of district heating system in Kharkov by the public utility “Kharkivski teplovi merezhi”.

2. Tkacheva L.G. – of the Environmental and Social Assessment Program of the Project, as well as of as well as Frame plan of the environmental management at stages of construction and operation and Monitoring plan.

Discussion of the questions on the Project and Program.

1 Borshch S.V.. – Will reconstruction concern all the boiler houses in city?

Repin A.P. answered the question – No it will not. The works connected with reconstruction of boiler houses will embrace nearly 35% of total number of boiler houses, this includes liquidation of 31-st boiler house and replacement of the obsolete boilers with equipment at 58 boiler houses by the new high-efficient equipment.

2. Fedorov A.P. – Does this Project provide CHP-4 reconstruction and resumption of generation at this heat source?

Repin A.P. answered the question – When forming strategic approaches of financing, our employees and the experts of the World Bank guided both by engineering and economic efficiency of these approaches. We considered variant of CHP-4 reconstruction with renewal of electrical generation, but at this stage the construction of cogeneration plants at district boiler houses will be the most reasonable (both from engineering and from the economic side). Besides, to include the object into the Project we require the project decision for CHP-4, but it is not available for the time being.

Zinchenko E.A. answered the question – Electrical generation renewal at CHP-4 will be performed out of the other funds.

3. Atanasova N.M. – According to which criteria have you selected the objects for reconstruction?

Repin A.P. answered the question – The objects for reconstruction have been selected based on their indexes of the work, depreciation of the equipment and remoteness from the heat supply network of the district heating system or the other sources with higher indexes. The local boiler houses have depleted their physical and moral resources, so they require for modernization for safe functioning, improving reliability of heat supply and quality of the services provided.

4. Kalutskii V.V. – What does Kharkov municipal council think of cooperation of the company with the World Bank regarding attracting of credit resources?

Litvinova Yu.V. answered the question – The executive authorities of Kharkov municipal council support intentions of the public utility “Kharkivski teplovi merezhi” in attracting of the funds of the international financial organizations to perform the works, connected with reconstruction of heat supply system of Kharkov. Besides, for the nearest future session of Kharkov municipal council we will arrive a decision of submitting of the local warranties, in the order, appropriate to the Budget Code of Ukraine and Regulation of Cabinet of Ministers of Ukraine of the order of submitting the local warranties.

5. Shpika N.I. – Which approaches included into the Project are more desirable?

Zinchenko E.A. answered the question – As I have already said, 9 approaches are included into the Project, which were selected by our specialists along with the experts of the World Bank, much attention when selecting was paid to the payback and efficiency period. So all the approaches, included into the Project are very perspective both from the technical and the economic point of view.

6. Naidis G.N. – What is approximate amount to be invested?

Zinchenko E.A. answered the question – The total amount of investments per the Project constitutes more than 100 mln. USA dollars, that is equivalent to the amount nearly of 860 mln., at this about 25% of funds will be assigned to reconstruction of boiler houses and about 20% – to replacement of heat supply network.

7. Hrishchenko T.S. – What influence of the Project implementation will be on the city inhabitants? What will change?

Zinchenko E.A. answered the question – In the first turn, due to reconstruction of boiler houses and heat supply network, dispatching, we will improve reliability of heat supply system, that will allow render heat supply services error-free and stably. With arrangement of the individual heat supply stations, implementation of automation systems, we will improve quality of the serviced provided on heat supply and hot water supply.

8. Melichenko S.V.– Who will landscape surrounding area, plant the trees after finishing construction works, i.e. deal with land improvement and out from whose funds?

Tkacheva L.G. answered the question – Landscaping of the surrounding territory, planting of trees, as well as recovery of the damaged asphalt coating will be performed by the Contractor, performing the construction works on the object or the construction site. Our company will accomplish compliance control.

This kind of works will be designed in the cost estimate documentation, so they will be performed at expense of credit resources of the World Bank.

9. Kozyr R.N. – *In different articles on cogeneration, which are published in mass media, it is said of noise increasing, as a result of construction of cogeneration plants. Tell me, please, will noise level increase after putting cogeneration plant into operation?*

Tkacheva L.G. answered the question – On this approach of the Project we have already developed the Project of evaluation of impact on environment - PEIE, in which we described calculation of sound pressure level, produced while operating of cogeneration plant. According to calculation, they will not exceed allowable norms. To reduce noise in the project we have provided to install on engine-generator noise hood and perform erection of equipment according to required tolerances, that will provide allowable vibration and noise level. After performing of the works some additional measurements will be made.

10. *Kapustnik S.L. – Does have Ukraine any experience of cooperation with the World Bank?*

Zinchenko R.E. answered the question. – Yes, it does. The Project “Development of city infrastructure” is coming to end, in which 12 cities of Ukraine have participated, including Kharkov, and the Project “Development of city infrastructure-2” will start. In Nikolayev they introduce the Project “Development of water supply and water discharge system”, which is financed on account of loan funds of the European Investment Bank. So in Ukraine we have experience of cooperation with international financial institutions.

11. *Sviridova R.V.* issued a proposal of the subsequent cooperation between the public utility “Kharkivski teplovi merezhi” and Kharkov scientific and technical society of the public services and domestic service.

Kolesnik N.A. came up with proposal to approve the Environmental and Social Assessment Program of the Project, as well as of as well as Frame plan of the environmental management at stages of construction and operation and Monitoring plan.

Voted unanimously.

RESOLVED:

Approve the Environmental and Social Assessment Program of the Project of modernization of the system of district heating of Ukraine in Kharkov as a whole, as well as Frame plan of the environmental management at stages of construction and operation and Monitoring plan.

Chairman of hearing

(signature)

Kolesnik N.A.

(full name and surname)

Secretary of hearing

(signature)

Vereliusova M.E.

(full name and surname)

ПРОТОКОЛ

общественных слушаний Программы экологической и социальной оценки Проекта «Повышение энергоэффективности в секторе централизованного теплоснабжения Украины», который внедряется за счет кредитных средств Мирового банка в г. Харькове.

9 января 2014 года

г. Харьков

Место проведения: г. Харьков, ул. Доброхотова, 11, 5 этаж, актовый зал коммунального предприятия «Харьковские тепловые сети», 10⁰⁰ по местному времени.

Председатель общественных слушаний: Колесник Николай Андриянович.

Секретарь общественных слушаний: Верелюсова Марина Евгеньевна.

Присутствующие на общественных слушаниях:

От коммунального предприятия «Харьковские тепловые сети»:

Зинченко Евгений Андреевич, главный инженер коммунального предприятия «Харьковские тепловые сети», руководитель рабочей группы Проекта;

Колесник Николай Андриянович, заместитель генерального директора коммунального предприятия «Харьковские тепловые сети»;

Решин Андрей Петрович, заместитель главного инженера коммунального предприятия «Харьковские тепловые сети», член рабочей группы;

Зинченко Роман Евгеньевич, заместитель начальника производственно-технической службы коммунального предприятия «Харьковские тепловые сети», член рабочей группы;

Ткачева Людмила Геннадиевна, инженер-эколог коммунального предприятия «Харьковские тепловые сети», член рабочей группы.

От Департамента коммунального хозяйства Харьковского городского совета.

Литвинова Юлия Вадимовна, начальник отдела экологии Департамента коммунального хозяйства Харьковского городского совета

От Харьковского национального университета городского хозяйства им. А.Н.Бекетова:

Ткачев Вячеслав Александрович, к.т.н., доцент, декан Факультета инженерной экологии городов;

Ромашко Александр Васильевич, к.т.н., доцент, заместитель декана по учебной работе Факультета инженерной экологии городов;

Стольберг Феликс Владимирович, д.т.н., профессор, заведующий Кафедры инженерной экологии и экологической безопасности городов;

Шника Николай Иванович, к.т.н., доцент, декан Факультета электрического транспорта.

Алексахин Андрей Александрович.

От Харьковского научно-технического общества коммунального хозяйства и бытового обслуживания

Свиридова Раиса Васильевна

Зарегистрированные участники общественных слушаний Программы экологической и социальной оценки в количестве 188 человек (списки участников прилагаются к протоколу, в приложении 1).

Повестка дня

Обсуждение Программы экологической и социальной оценки Проекта модернизации системы централизованного теплоснабжения Украины в г. Харькове, а также Рамочного плана экологического управления на этапах строительства и эксплуатации и Плана мониторинга.

1. Утверждения регламента слушаний.

СЛУШАЛИ:

Об утверждении регламента слушаний.

ВЫСТУПАЛИ:

Колесник Н.А. – предложил утвердить следующий регламент общественных слушаний:

для докладов и выступлений - до 20 минут;

для ответов на вопросы - до 5 минут.

Вопросы можно задавать как устно с места, так и в письменной форме, через секретариат. Задавая вопрос устно, необходимо поднять руку, дожидаясь разрешения Председателя общественных слушаний, после чего встать, представиться – назвать свою фамилию, имя, отчество., и четко изложить суть вопроса. Передавая вопрос в секретариат в письменной форме, указывать фамилию, имя, отчество и суть вопроса.

Голосовали единогласно.

ПОСТАНОВИЛИ:

Утвердить следующий регламент слушаний:

для докладов и выступлений - до 20 минут;

для ответов на вопросы - до 5 минут.

СЛУШАЛИ:

О Программе экологической и социальной оценки Проекта модернизации системы теплоснабжения Украины в г. Харькове, а также о Рамочном плане экологического управления на этапах строительства и эксплуатации и о Плате мониторинга.

ВЫСПУПАЛИ с докладами:

1. Зинченко Е.А. – о внедрении коммунальным предприятием «Харьковские тепловые сети» Проекта модернизации системы централизованного теплоснабжения в г. Харькове.

2. Ткачева Л.Г. – о Программе экологической и социальной оценки Проекта, а также о Рамочном плане экологического управления на этапах строительства и эксплуатации и о Плате мониторинга.

Обсуждение вопросов по Проекту и Программе.

1 Борц С.В. – Коснется ли реконструкция всех котельных в городе?

На вопрос отвечал Репин А.П. – Нет, работами, связанными с реконструкцией котельных, будет охвачено около 35% от общего числа котельных, это ликвидация 31-ой котельной и замена устаревших котлов с оборудованием на 58-ми котельных на новое высокоэффективное.

2. Федоров А.П. – Предусматривается ли в этом Проекте реконструкция ТЭЦ-4 и возобновление генерации на этом тепловом источнике?

На вопрос отвечал Репин А.П. – При формировании стратегических направлений финансирования, наши сотрудники и эксперты Мирового банка руководствовались как технической, так и экономической эффективностью данных направлений. Мы рассматривали вариант реконструкции ТЭЦ-4 с возобновлением электрогенерации, но на данном этапе наиболее целесообразным (как с технической, так и с экономической стороны) является строительство когенерационных станций на районных котельных. К тому же, для включения объекта в Проект требуется проектное решение, по ТЭЦ-4, а его еще нет.

На вопрос отвечал Зинченко Е.А. – Возобновление электрогенерации на ТЭЦ-4 будет проводиться за счет средств других фондов.

3. Атанасова Н.М. – По каким критериям выбирались объекты для реконструкции?

На вопрос отвечал Репин А.П. – Объекты для реконструкции выбирались на основании их показателей работы, изношенности оборудования и удаленности от тепловых сетей централизованной системы теплоснабжения или других источников, у которых более высокие показатели. Локальные котельные исчерпали свой физический и моральный ресурс, поэтому требуют модернизации для безопасного функционирования, повышения надежности теплоснабжения и качества предоставляемых услуг.

4. Калуцкий В.В. – Как относится Харьковский городской совет к сотрудничеству предприятия с Мировым банком по привлечению кредитных средств?

На вопрос отвечала Литвинова Ю.В. – Исполняющие органы Харьковского городского совета поддерживают намерения коммунального предприятия «Харьковские тепловые сети» в привлечении средств международных финансовых организаций на выполнение работ, связанных с реконструкцией системы теплоснабжения города Харькова. Кроме того, на ближайшую сессию Харьковского городского совета, будет вынесено решение о предоставлении местных гарантий, в порядке, соответствующем Бюджетному Кодексу Украины и Постановлению Кабинета Министров Украины о порядке предоставления местных гарантий.

5. Шпка Н.И. – Какие из направлений, включенные в Проект, наиболее приоритетные?

На вопрос отвечал Зинченко Е.А. – Как я уже говорил, в Проект входит 9 направлений, которые были отобраны нашими специалистами совместно с экспертами Мирового банка, большое внимание при выборе уделялось срокам окупаемости и эффективности. Поэтому все направления, включенные в Проект, очень перспективные как с технической, так и с экономической точки зрения.

6. Найдис Г.Н. – Какая приблизительная сумма инвестиций?

На вопрос отвечал Зинченко Е.А. – Общая сумма инвестиций по Проекту составляет более 100 млн. долларов США, что эквивалентно сумме около 860 млн. грн., при этом на реконструкцию котельных будет направлено около 25% средств, а на замену тепловых сетей около 20%.

7. Грищенко Т.С. – Как повлияет внедрение Проекта на жителей города? Что изменится?

На вопрос отвечал Зинченко Е.А. – В первую очередь, вследствие реконструкции котельных и тепловых сетей, диспетчеризации, повысится надежность системы теплоснабжения, что позволит безотказно и стабильно предоставлять услугу теплоснабжения. При устройстве индивидуальных тепловых пунктов, внедрении систем автоматизации, повысится качество предоставляемых услуг по отоплению и горячему водоснабжению.

8. Меличенко С.В. – Кто будет озеленять прилегающую территорию, высаживать деревья после окончания строительных работ, т.е. заниматься благоустройством и за чьи средства?

На вопрос отвечала Ткачева Л.Г. – Озеленение прилегающей территории, высадку деревьев, а также восстановление поврежденного асфальтного покрытия будет выполнять Подрядчик, проводящий строительные работы на объекте или участке строительства. Нашим предприятием будет осуществляться контроль за выполнением.

Данные виды работ будут заложены в сметной документации, таким образом и выполняться будут за счет кредитных средств Мирового банка.

9. Козырь Р.Н. – В различных статьях по когенерации, которые публикуются в средствах массовой информации, говорится о повышении шума, в результате строительства когенерационных станций. Скажите, повысится ли уровень шума после введения когенерационной станции в действие?

На вопрос отвечала Ткачева Л.Г.– По данному направлению Проекта уже разработан Проект оценки воздействия на окружающую среду- ОВОС, в котором приведен расчет уровня звукового давления, создаваемого при работе когенерационной станции. Согласно расчету, они не превысят допустимые нормы. Для уменьшения шума в проекте предусмотрено установить на двигатель-генератор шумопоглощающий кожух и производить монтаж оборудования с соблюдением необходимых допусков, что обеспечит допустимый уровень вибрации и шума. После проведения работ будут проводиться дополнительно замеры.

10.Капустник С.Л. – Есть ли у Украины опыт сотрудничества с Мировым банком?

На вопрос отвечал Зинченко Р.Е. – Да, уже подходит к концу завершение Проекта «Развитие городской инфраструктуры», в котором принимало участие 12 городов Украины, в т.ч. и Харьков, и стартует Проект «Развитие городской инфраструктуры-2». В г. Николаев внедряется Проект «Развитие системы водоснабжения и водоотведения», который финансируется за счет кредитных средств Европейского Инвестиционного Банка. Так что в Украине есть опыт сотрудничества с международными финансовыми учреждениями.

11. Свиридова Р.В. выступила с предложением дальнейшего сотрудничества между Коммунальным предприятием «Харьковские тепловые сети» и Харьковским научно-техническим обществом коммунального хозяйства и бытового обслуживания.

Выступил Колесник Н.А., внес предложение одобрить Программу экологической и социальной оценки Проекта, а также Рамочный план экологического управления на этапах строительства и эксплуатации и План мониторинга.

Голосовали единогласно.

ПОСТАНОВИЛИ:

Одобрить Программу экологической и социальной оценки Проекта модернизации системы централизованного теплоснабжения Украины в г. Харькове в целом, а также Рамочный план экологического управления на этапах строительства и эксплуатации и План мониторинга.

Председатель слушаний


(подпись)

Колесник Н.А.
(Фамилия и инициалы)

Секретарь слушаний


(подпись)

Верелюсова М.Е.
(Фамилия и инициалы)

5

Annex 21. List of members of the public hearing
dated January 09, 2014

СПИСОК

участников общественных слушаний Программы экологической и социальной оценки Проекта
модернизации систем централизованного теплоснабжения Украины
на КП «Харьковские тепловые сети»

9 января 2014 г.

г. Харьков

№ п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
1	Морозов Александр Фролович	1948	г. Харьков ул. 16 Мирного, 40 кв. 160	[Подпись]
2	Савва Роман Николаевич	1975	г. Харьков ул. Кошарского, 60	[Подпись]
3	Саворин Иосиф Семенович	1941	г. Харьков ул. Тарасовская, 15	[Подпись]
4	Шадрица Анна Николаевна	1973	г. Харьков ул. Дюжар, 46а кв. 1 и 57	[Подпись]
5	Авочкин Александр Сергеевич	1954	г. Харьков ул. Суржикова, 48 кв. 8	[Подпись]
6	Челурко Анатолий Николаевич	1964	г. Харьков ул. Давыдовская, 31 кв. 57	[Подпись]
7	Титарен Ирина Григорьевна	1964	г. Харьков ул. Давыдовская, 31 кв. 57	[Подпись]
8	Сыров Александр Викторович	1973	г. Харьков ул. Григорьева, 20 кв. 57	[Подпись]
9	Роговцова Тамара Александровна	1949	г. Харьков ул. Тарасовская, 1 кв. 462	[Подпись]
10	Мельник Василий Николаевич	1956	г. Харьков ул. Суржикова, 48 кв. 8	[Подпись]
11	Романова Елена Александровна	1972	г. Харьков ул. Давыдовская, 31 кв. 57	[Подпись]
12	Луко Алексей Владимирович	1975	г. Харьков ул. Южная, 10	[Подпись]
13	Сидоренко Юрий Николаевич	1982	г. Харьков ул. Кошарского, 32 кв. 67	[Подпись]
14	Муромов Константин Константинович	1979	г. Харьков ул. Давыдовская, 31 кв. 57	[Подпись]
15	Косова Лормина Викторовна	1966	г. Харьков ул. 2-я Пятилетки, 31-46	[Подпись]
16	Сученко Анна Александровна	1986	г. Харьков ул. Давыдовская, 31 кв. 57	[Подпись]
17	Монахов Виктор Александрович	1974	г. Харьков ул. Давыдовская, 31 кв. 31	[Подпись]
18	Дубинко Владимир Сергеевич	1968	г. Харьков ул. Давыдовская, 41 кв. 60	[Подпись]
19	Жакова Елена Андреевна	1991	г. Харьков ул. 2-я Пятилетки, 31-46	[Подпись]
20	Лосманова Татьяна Владимировна	1977	г. Харьков ул. Тарасовская, 60 кв. 57	[Подпись]

№/п	Ф.И.О.	Год рождения	Домашний адрес	подпись
21	Балушкин Людмила Владимировна	1954	Харьков ул. Сумская 10 кв. 9	
22	Рокит Евгений Сергеевич	1986	г. Харьков, ул. Бажова, 58 кв. 35	
23	Мандыбура Людмила Владимировна	1958	г. Харьков ул. Зариновка-6/8 кв. 6	
24	Богачук Ирина Николаевна	1966	г. Харьков ул. Героев Труда, 94 кв. 351	
25	Лелик Артём Сергеевич	1983	г. Харьков ул. Танкограда 51 кв. 59	
26	Шипилов Екатерина Васильевна	1980	г. Харьков ул. Зариновка 6/8 кв. 49	
27	Черешко Анна Владимировна	1987	г. Харьков пер. Саткинский 12	
28	Альшанова Наталья Владимировна	1942	г. Харьков ул. Бажова 33 кв. 52	
29	Бенюшко Александр Владимирович	1956	г. Харьков Светлая 23 кв. 36	
30	Куровая Ирина Геннадьевна	1986	г. Харьков ул. Ком. Козю 38 кв. 11	
31	Черемисинко Александр Владимирович	1969	г. Харьков ул. Тобольская 46 кв. 16	
32	Тюджина Татьяна Темариновна	1964	г. Харьков ул. 78 Мирашников д. 15746 кв. 605	
33	Тимофеев Владислав Викторович	1971	г. Харьков пер. Деснянский 4	
34	Олимпий Светлана Александровна	1972	г. Харьков ул. Московская 97 кв. 12	
35	Котило Карина Александровна	1983	г. Харьков ул. Топор 170 кв. 1 кв. 116	
36	Борч Сергей Владимирович	1990	г. Харьков Варшавка 61	
37	Зеремелкин Виктор Сергеевич	1969	г. Харьков ул. Героев Труда 25/41 кв. 13	
38	Жувага Юрий Увалович	1962	г. Харьков пер. Цюльковская 13	
39	Зег Владимир Олегович	1989	г. Харьков ул. Вершини Крива 45 кв. 51	
40	Оглозов Арнольд Валериевич	1991	обл. Харьковская с/пос. Вич. Б. Хитиц- Кущинского 89 кв. 16	

№п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
41	Цимбаревы Ериил Бернардова	1949	г. Харьков ул. Кенява 9 кв. 195	<i>[Signature]</i>
42	Борисовы Хаймович	1962	г. Харьков пер. Ережневский, 4	<i>[Signature]</i>
43	Михаил Антеевич Клименко	1945	г. Харьков ул. Г.В. Широшечев, 44, кв. 24	<i>[Signature]</i>
44	Клименко Валерий Климович	1963	г. Харьков кв. 30. пер. Тимирязевский	<i>[Signature]</i>
45	Игорь Иванович Коробов		г. Харьков ул. Клементьевская	
46	Александр Андрей Васильевич	1973	г. Харьков пер. Лобовский, 50	<i>[Signature]</i>
47	Раузинов Владимир Иванович	1958	г. Харьков Постышева 30 кв. 89	<i>[Signature]</i>
48	Трошенко Андрей Иванович	1976	г. Харьков Постышева 30 кв. 89	<i>[Signature]</i>
49	Морозов Евгений Васильевич	1957	г. Харьков Постышева 2/1 кв. 23	<i>[Signature]</i>
50	Мельничко Сергей Викторович	1982	ул. Шана Михайленко, 15 кв. 33	<i>[Signature]</i>
51	Быков Александр Васильевич	1950	ул. Ш. Штерманского д. 10 кв. 1665	<i>[Signature]</i>
52	Зуров Андрей Николаевич	1989	шос. 1. Димитрова д. 52/А кв. 52	<i>[Signature]</i>
53	Григорьев Тимур Зурович	1979	Канатинское шоссе, 50 кв. 30	<i>[Signature]</i>
54	Коваленко Николай Николаевич	1980	ул. Новгородская, 49, кв. 66	<i>[Signature]</i>
55	Мельничко Анна Владимировна	1981	ул. Михайловская 13 кв. 33	<i>[Signature]</i>
56	Полуба Павел Иванович	1964	ул. Емзирова 61	<i>[Signature]</i>
57	Фракин Виктор Владимирович	1959	ул. Новгородская д. 61 кв. 166	<i>[Signature]</i>
58	Паньков Александр Васильевич	1971	ул. Топольная 76	<i>[Signature]</i>
59	Турецкий Александр Владимирович	1944	ул. Широшечев г. Харьков	<i>[Signature]</i>
60	Турецкий Юрий Иванович	1946	ул. Ставильная г. Харьков	<i>[Signature]</i>

№п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
61	Тюнько Сергей Александрович	1960	г. Харьков, ул. Дружбы народов, 21/б54	<i>[Signature]</i>
62	Ложковская Наталья Александровна	1967	г. Харьков ул. Дружбы народов, 21/б54	<i>[Signature]</i>
63	Кисев Владимир Игоревич	1975	г. Харьков, пр-кт Куржубова, 2/2520	<i>[Signature]</i>
64	Островский Дмитрий Николаевич	1960	г. Харьков, ул. Рудомы, 13 и б52	<i>[Signature]</i>
65	Шалыченко Руслан Владимирович	1969	г. Харьков ул. 12 Марта, д. 1А, 15	<i>[Signature]</i>
66	Тюняков Александр Александрович	1971	Харьков ул. 70. Шейн-д 1215	<i>[Signature]</i>
67	Шелковская Елена Владимировна	1971	г. Харьков ул. Волчанск 21А и б65	<i>[Signature]</i>
68	Торчиенко Елена Владимировна	1988	Кам. Копье д. 50 кв. 182	<i>[Signature]</i>
69	Тимченко Александр Игоревич	1982	ул. Дн. Народное д. 269 кв. 108	<i>[Signature]</i>
70	Костенко Артем Михайлович	1988	ул. Новаторская 18 кв. 07	<i>[Signature]</i>
71	Шляхоть Сергей Геннадиевич	1976	ул. Ч. Шейкина, д. 92, кв. 62	<i>[Signature]</i>
72	Чертова Татьяна Климентьевна	1971	ул. Соловьиная, кв. 67	<i>[Signature]</i>
73	Бессонова Валентина Сергеевна	1950	ул. Труманская, 90	<i>[Signature]</i>
74	Зинский Владимир Александрович	1951	пр. Дружбы народов д. 7 и б4	<i>[Signature]</i>
75	Кармак Игорь Иванович	1956	пер. Пестаный д. 1/6	<i>[Signature]</i>
76	Чернобай Максим Александрович	1984	ул. Дюновская, 2а кв. 25	<i>[Signature]</i>
77	Шкаро Вадим Владимирович	1980	ул. Радомы д. 45А кв. 15	<i>[Signature]</i>
78	Торчиенко Надежда Владимировна	1949	ул. А. Павлова 132 б, кв. 38	<i>[Signature]</i>
79	Ложковская Наталья Александровна	1967	ул. Пер. Соловьиная 167, А и 73	<i>[Signature]</i>
80	Орлова Елена Александровна	1953	ул. Метрострой д. 8 кв. 28	<i>[Signature]</i>

№п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
81	Милонин И.В.	1951	г. Харьков, ул. Карла Маркса, д. 12	<i>[Подпись]</i>
82	Муринко С.И.	1986	г. Харьков, ул. Гомельская, д. 153, кв. 22	<i>[Подпись]</i>
83	Скороходченко Т. В.	1968	г. Харьков, ул. Дзержинский, д. 10	<i>[Подпись]</i>
84	Локоткова И.В.	1979	г. Харьков, пр. Московский, 300-243	<i>[Подпись]</i>
85	Камушин В.В.	1972	г. Харьков, ул. Орджоникидзе, 4-19	<i>[Подпись]</i>
86	Масименко С.В.	1975	г. Харьков, ул. 17-го Января, д. 15, кв. 1	<i>[Подпись]</i>
87	Лидвин Д.С.	1990	г. Харьков, ул. Митрофановская, 19/10	<i>[Подпись]</i>
88	Литко А.А.	1980	г. Харьков, ул. Карла Маркса, 2+10	<i>[Подпись]</i>
89	Киреева М.О.	1988	г. Харьков, ул. Карла Маркса, 19/1, кв. 8	<i>[Подпись]</i>
90	Чернобаба В.А.	1980	г. Харьков, ул. Митрофановская, 139/1	<i>[Подпись]</i>
91	Курча С.В.	1987	г. Харьков, ул. Дзержинский, д. 10	<i>[Подпись]</i>
92	Сладков Д. А.	1987	г. Харьков, ул. Карла Маркса, д. 10, кв. 61	<i>[Подпись]</i>
93	Толчинко В.Ю.	1978	г. Харьков, ул. Дзержинский, д. 10, кв. 502	<i>[Подпись]</i>
94	Меторина Т.И.	1947	С. 10 246 кв. 13	<i>[Подпись]</i>
95	Омельченко И.И.	1965	ул. Крайняя, д. 6 кв. 9	<i>[Подпись]</i>
96	Клименко А.Д.	1960	ул. Г. Ушакова, д. 20	<i>[Подпись]</i>
97	Курченко И.В.	1981	ул. Вокзальная, д. 11	<i>[Подпись]</i>
98	Мерверген В.В.	1949	ул. Суворова, 92-4	<i>[Подпись]</i>
99	Омельченко Л.В.	1953	ул. М. Гаврилова, 80-199	<i>[Подпись]</i>
100	Семанова Т.И.	1960	г. Харьков, ул. Танкограда, 47, кв. 2	<i>[Подпись]</i>

№п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
101	Тамбовский Ю. Ю.	1979	г. Первомайский 4 м.п., д. 12 кв. 65	
102	Моргунов А. Г.	1954	г. Харьков ул. Трусова, 48 к/2	
103	Кельницкий В. Н.	1972	г. Харьков ул. Палт. шлях 144/11	
104	Лалута В. И.	1954	г. Харьков ул. Плитозна 19 кв. 22	
105	Самойленко Н. И.	1952	г. Харьков ул. Елизарова 4. 266.	
106	Косинов А. В.	1952	г. Харьков ул. Перемиская 12/11	
107	Фрмелев В. В.	1948	г. Харьков ул. Елизарова 155	
108	Земляк Д. А.	1987	ул. Александровская 140 кв. 72	
109	Лобков Ф. В.	1959	ул. Фовгаевская 96	
110	Синцов А. М.	1975	ул. Южная, 144 кв. 188	
111	Найдов С. Н.	1956	ул. Пойсебн 43 кв. 7	
112	Бринов А. В.	1972	г. Харьков ул. Ташков, 6 кв. 489	
113	Ираджин А. Ф.	1953	г. Харьков ул. Фрунзе 26 кв. 106	
114	Менко Г. Г.	1968	г. Харьков ул. Гер. Якутска, 29/34	
115	Михайлова Н. А.	1981	пр. Слава, 9 кв. 15	
116	Савченко А. С.	1985	г. Харьков ул. Суворова, 23 кв. 61	
117	Евтушенко Е. А.	1976	г. Харьков ул. Климасова, 67 кв. 54	
118	Безюков А. В.	1959	г. Харьков ул. Проспекта 8 кв. 8	
119	Гузко В. В.	1977	г. Харьков ул. Тимшова 26 кв. 22	
120	Приценов И. Е.	1965	г. Харьков пос. Песочин ул. Набережная 14/108	

№п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
121	Лиско Павел Алексеевич	1957	г. Харьков ул. Сурбеновская	
122	Канусник Сергей Леонович	1987	г. Харьков ул. 50.000.000 д. 165, кв. 5	
123	Хомченко Игорь Викторович	1972	г. Харьков ул. Гринелова 93, кв. 6	
124	Забавин Сергей Иванович	1969	г. Харьков ул. Бумажная 8-248 № 92	
125	Лобовый Мих. Пав.	1952	г. Харьков ул. 19 ул. Д. Короткая	
126	Клищенко И. А.	1960	г. Харьков ул. Азбуковская 12/144	
127	Колотосидин Владимир Александрович	1962	г. Харьков ул. Победы 87	
128	Майстренко Андрей Владимирович	1987	г. Харьков ул. Аэродромная 15, кв. 13	
129	Сергеев Сергей Николаевич	1952	г. Харьков ул. Сахаровская 339	
130	Колесник Владимир Иванович	1957	г. Харьков ул. Сахаровская 15/108	
131	Рудковская Мария Михайловна	1982	г. Харьков Князько 3 кв. 16	
132	Богдан Артем Валентинович	1957	ул. Космодром-36	
133	Забавин Александр Иванович	1963	г. Харьков ул. Коммунальная	
134	Швецов Анатолий Викторович	1949	ул. П. Широкинская 11-Б кв. 65	
135	Сергеев Сергей Георгиевич	1976	ул. Социалистическая 63 кв. 91	
136	Зеларино Наталья Викторовна	1986	по адресу д. 251 - 11	
137	Омаровский Станислав Анатолиевич	1962	ул. Конституционная, 20 кв. 43	
138	Томаш Франц Иванович	1956	г. Харьков, ул. ул. Веселая, ул. Пирогова	
139	Клименко Роман Леонидович	1979	г. Харьков пер. Тельский 6	
140	Старовойтов Париса Анатолиевна	1969	г. Харьков ул. Героев Труда 46 кв. 16	

№п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
141	Манасюк В.Ф.	1972	пр. 50 летия ВЛКСМ, д. 401, кв. 176	<i>Манасюк В.Ф.</i>
142	Лопушиков Р.Е.	1976	ул. Советская 3 кв 14	<i>Лопушиков Р.Е.</i>
143	Зубов В.А.	1956	ул. Деревянное, кв. 1	<i>Зубов В.А.</i>
144	Шопран С.В.	1969	ул. П. Мирной 59 кв 1	<i>Шопран С.В.</i>
145	Шевченко Э.А.	1985	ул. 23 Августа 59 кв 12	<i>Шевченко Э.А.</i>
146	Головгерская В.Ж.	1956	кр. Победы 66В-208	<i>Головгерская В.Ж.</i>
147	Олемя О.А.	1978	ул. Гринько 18 кв 3	<i>Олемя О.А.</i>
148	Гусыко Е.И.	1985	ул. П. Широкиной ^{кв. 128} 50	<i>Гусыко Е.И.</i>
149	Гардер К.С.	1981	ул. С. Тришова 33-57	<i>Гардер К.С.</i>
150	Литвинов А.В.	1983	ул. Чеховградская 42	<i>Литвинов А.В.</i>
151	Синило С.Г.	1979	ул. Полтавский майдан ^{кв. 128} 190/6 _{кв. 128}	<i>Синило С.Г.</i>
152	Бочкова В.В.	1957	ул. 23 Августа 75, кв. 76	<i>Бочкова В.В.</i>
153	Тришченко Т.С.	1954	ул. Деревянное 40-19	<i>Тришченко Т.С.</i>
154	Комарова И.Т.	1986	ул. Дорошенковская 57/1	<i>Комарова И.Т.</i>
155	Калининко О.В.	1980	ул. Тобольская, 46 ^{кв. 5}	<i>Калининко О.В.</i>
156	Мелекаева В.В.	1958	Ладо 52/2	<i>Мелекаева В.В.</i>
157	Щербак Л.В.	1984	ул. П. Михайлова, 7	<i>Щербак Л.В.</i>
158	Грибов В.	1976	ул. П. Широкиной, 12 кв 1	<i>Грибов В.</i>
159	Корсакова О.Т.	1960	ул. П. Свободы 112	<i>Корсакова О.Т.</i>
160	Кривко Е.А.	1965	старобельский 15	<i>Кривко Е.А.</i>

№п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
161	Федоров Виктор Павл.	1948	Ленинградская Д.и. иб 1	<i>[Signature]</i>
162	Мокшилов Дмитрий Владимирович	1985	Каналов, 89 кв. 2 кв. 29	<i>[Signature]</i>
163	Роднев Геннадий Александр	1971	пр. Гагарина 173б. 49	<i>[Signature]</i>
164	Соловьев Александр Васильевич	1956	ул. Молодежная 21	<i>[Signature]</i>
165	Большунов Ник. Ник.	1952	ул. 17 ^я Лесная 34А	<i>[Signature]</i>
166	Бондаренко Анаст. Иванов	1948	пр. Московский 57/63. 29	<i>[Signature]</i>
167	Хрищев Валентин Михайлович	1950	пр. Фрунзе 26 кв. 67	<i>[Signature]</i>
168	Колесов Николай Викторович	1974	Светлая. Школьная. 29	<i>[Signature]</i>
169	Мурзин Михаил Дмитриевич	1950	Металлург. пр. 300/2	<i>[Signature]</i>
170	Костыгин Валерий Павлович	1947	ул. Новая 3А	<i>[Signature]</i>
171	Варвач Виталий Викторович	1978	ул. Луц-Павлова 510. кв. 107	<i>[Signature]</i>
172	Садорский Марин. Григорьевич	1969	ул. Тельмана, 10. 119 кв. 1	<i>[Signature]</i>
173	Александрович Ирина	1965	ул. Красноармейская 171 кв. 10	<i>[Signature]</i>
174	Соренкова Татьяна Юрьевна	1947	пр. Фр. Октябрьский 170	<i>[Signature]</i>
175	Зеларкин Игорь Владимирович	1988	пр. Коммуна 69 кв. 10	<i>[Signature]</i>
176	Степанкина Ирина Алекс.	1959	пр. Орджони. 15/16 кв. 14	<i>[Signature]</i>
177	Климова Татьяна Юрьевна	1962	ул. Мит. Ульянов 40 кв. 10	<i>[Signature]</i>
178	Васильева Ирина Александровна	1976	пр. Московский 500 кв. 10	<i>[Signature]</i>
179	Витренко Вал. Ник.	1950	пр. Орджони	<i>[Signature]</i>
180	Бессенко Виктор Николаевич	1972	пр. Теркин 242	<i>[Signature]</i>

№п/п	Ф.И.О	Год рождения	Домашний адрес	Подпись
181	Алексеевич А. А.	1953	г. Харьков, ул. ... №162, кв. 20	
182	Ткачев В. А.	1949	Харьковский национальный университет им. Г.С.Сквирского	
183	Минина Н. И.	1953	Харьковский национальный университет им. Г.С.Сквирского	
184	Семедер Р. В.	1936	Харьковский национальный университет им. Г.С.Сквирского	
185	Ромашко А. В.	1959	Харьков, ул. ... №16, кв. 57	
186	Св. ... Р. В.	1940	г. Харьков, ул. ... № ... кв. 24	
187	Щур Р. И.	1979	г. Харьков, ул. ... №1, кв. 9	
188	Литвинова Ю. В.	1990	г. Харьков, ул. ... д. 96, кв. 91	

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(Подпись)

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(Ф.И.О.)

ОДНІ ТРОЩАТЬ ПАМ'ЯТНИКИ, ІНШІ – ПРАЦЮЮТЬ

[актуально] с. 2



БОКСЕРИ ПЕРЕМАГАЮТЬ НА ВСІХ ФРОНТАХ

[спорт] с. 7



СЛОБІДСЬКИЙ КРАЙ

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 ВИДАЄТЬСЯ З СЕРПНЯ 1912 Р.
 ОФІСНЕ ВИДАННЯ ХАРКІВСЬКОЇ ОБЛАСНОЇ РАДИ
 ТА ХАРКІВСЬКОЇ ОБЛАСНОЇ ДЕРЖАВНОЇ АДМІНІСТРАЦІЇ

10 грудня 2013
 вівторок № 147 (21955)

**У НОМЕРІ:
 ГРИП БЕЗ ЕПІДЕМІЇ**



Цього року на території України очікують широкій трьох штабів грипу: Каліфорнія (A/H1N1), Вікторія (A/H3N2) та вірус групи В «Москвіте-2012». У деяких містах почалися, уже в деяких областях зареєстровано випадки захворювання. У нашому регіоні офіційно ще не зареєстровано жодного випадку захворювання на грип. Проте сьогодні Харківщина посідає аж 17-те місце в Україні з профілактики сезонної недуги.

[актуально] с. 2

**КОНТРАКТНА АРМІЯ:
 ЕФЕКТИВНІСТЬ 80 %**



92-та окрема механізована бригада, яка дислокується на Чугуївщині, у Куп'яно-Башкирці, – єдина на сході України, яка має завдання в найскладнішій строків виконати військовий обов'язок: посилити оборону кордону та захистити об'єкти Харківської та інших областей. Днями журналісти завітали сюди, щоб подивитися, чим саме зараз живуть військовослужбовці.

[крупним планом] с. 5

ЗИМА РОЗГУЛЯЛАСЯ НЕ НА ЖАРТ



Очікуємо сильних заморозків

Ірина ГУДЗІВ
 харківщина

На цьому тижні мешканці Харківської області нарешті відчують орієнтовно зливу.

Погода стане вже розчарованою, – розповіла завідувач сектора метеорологічних прогнозів Харківського гідрометцентру Євгенія Лавренко. – Максимальні морози очікуються 11 грудня: вночі –11...–16 °С, вдень –6...–11 °С.

Зниження температури пов'язано із циклоном, який у понеділок досягне Харківщини. Через свій посилений вітер. Пориви досягнуть 15...20 м/с. Синотиманив прослідують сильнік опади, але великий сніг буде на всій території області.

Температура почне поступово підвищуватися з 12 грудня. Уночі очікують –8...–14 °С, вдень –4...–9 °С. Уже 14 грудня сніготиски промінують уночі –4...–9 °С, вдень +1...–4 °С.

Більше також тривалими сильними морозами до кінця грудня не очікують. Якщо температура й буде знижуватися, то максимум лише на три-чотири дні.

Як зазначили в Гідрометцентрі, така погода є нормальною для грудня. Наразі середня температура майже більша за меншорічну на 1–3 °С. Найкращими ж місяцями традиційно будуть січень і лютий.



У РІК КОНЯ БУДЬ НА КОНІ З «СК»

ПЕРЕДПЛАТИ «СЛОБІДСЬКИЙ КРАЙ» НА 2014 РІК							
Передплата триває до 20 грудня							
61155 тричі на тиждень				08755 субота			
14,40	43,20	86,40	172,80	8,53	25,59	51,18	102,36
ТРИ МІСЯЦІ	ТРИ МІСЯЦІ	ТРИ МІСЯЦІ	ТРИ МІСЯЦІ	ТРИ МІСЯЦІ	ТРИ МІСЯЦІ	ТРИ МІСЯЦІ	ТРИ МІСЯЦІ

Annex 23. Sheet of registration ID card of incoming application.

203005	Регістраційно-контрольна картка				Відмітка про контроль
Кореспондент		Адреса			
		Код району			За формою надходження
		буд.	кв.		За ознакою надходження
Дата надходження кореспонденції	Регістраційний індекс	Звідки одержано	Дата надіслання	Індекс документа	За видами
Короткий зміст (питання)				Індекси основних і додаткових	За статтю
1.					
2.					За типом
3.					За категоріями авторів звернень
Автор резолюції		Резолюція			За соціальним станом
Термін виконання		Виконано за			днів

Дата передачі на виконання	Виконавець	Записи про продовження терміну, попередню відповідь або додаткові питання	Контрольні відмітки	Попередні звернення	
				Дата	Вхідний №
Перевірено на місці працівником апарату					
Дата, індекс виконання		Адресат			
		Вирішено			
За результатами розгляду					
З контролю зняв					
Справа		Том	Аркуші	Фонд	
Опис		Справа			

PUBLIC UTILITY "KHARKIVSKI TEPLOVI MEREZHI"

UKRAINE DISTRICT HEATING ENERGY EFFICIENCY PROJECT

***ENVIRONMENTAL PROTECTION AND SOCIAL MANAGEMENT
PLAN (EPSMP)***

Nontechnical EPSMP summary

1. INTRODUCTION

Government of Ukraine pushed forward the Ukraine district heating energy efficiency project, which will be implemented on account of the borrowed funds of the International Bank for Reconstruction and Development and Fund of clean technologies.

To participate in the project they selected a number of the companies operating in the housing and public utility sector, including the public utility company “Kharkivski teplovi merezhi”, according to which they concluded Agreement of the project execution between PU “Kharkivski teplovi merezhi” and the International Bank for Reconstruction and Development (IBRD), between PU “Kharkivski teplovi merezhi” and Fund of clean technologies (FCT) in accordance with Loan contract between Ukraine and IBRD and Loan contract between Ukraine and FCT.

Total amount of the borrowed funds for this Project constitutes 332 mln. USA dollars, from which our company was reserved the funds at rate of 107.59 mln. USA dollars, according to the concluded Subloan agreement between Ministry of Finance of Ukraine, Ministry of regional development, construction and housing and public utilities of Ukraine, Kharkiv municipal council, National commission, carrying out state regulation in the field of energy and public utilities and PU “Kharkivski teplovi merezhi”.

Under the terms of Agreements regarding implementation of the Project and Subloan agreements the implementation term of the Project measures amounts 6 years, during the period from 2015 to 2020.

Returning of the capital amount subloan will be carried out according to schedule, start of which precedes grace period, namely: for loan granted by IBRD - 5 years (with repayment of the principal sum of subloan during the period from 2019-2031), for FCT loan - 10 years (with repayment of the principal sum of subloan during the period from 2024-2033).

This project aims to improve energy efficiency of heat supply systems and improve the quality of services provided by the enterprises of municipal power system of Ukraine, strengthening their financial sustainability, reduction of greenhouse gas emissions into the environment.

The purpose of the implementation of the project at the public utility "Kharkivski teplovi merezhi" is reducing of consumption of fuel and energy resources, reducing the cost and improving the quality of services, improving the efficiency and reliability of the district heating system of Kharkiv.

In Kharkiv the sub-project which is planned to be implemented, consists of the following components:

1. Construction of 2 cogeneration plants, with electrical power of 4 and 1 MW accordingly.
2. Liquidation of 12 boiler houses, with connection of heat load to the other heat supply source with much more considerable work indexes.
3. Reconstruction of 58 boiler houses with replacement of the outdated and worn-out equipment.
4. Setting of 250 individual heat supply stations in the residential houses .
5. Setting of 1000 heat meters in the heat stations of the residential houses.

6. Reconstruction at CHP-3 of turbogenerator (TG) with electrical power of 20 MW and steam boiler, satisfying its parameters of TG operation.
7. Introduction of the frequency converters at electrical engines of the pump units of 9 objects of the district heating system (boiler houses and pump stations at main heat lines).
8. Reconstruction of nearly 24 km of heat networks.
9. Implementation of systems of automation, dispatching and commercial electricity metering at objects of district heating system.
10. Implementation of SCADA system.

General expected Project effect:

For the company:

- reduction in the consumption of the fuel and energy resources by at least 12.5 million m³ of gas, which will reduce the energy intensity of the production of thermal energy and, consequently, its cost;
- increasing the level of automation of heat supply of the city;
- reducing negative impact on the environment by reducing emissions by at least 189 thousand tons;
- improvement of technical and economic indicators of the enterprise as a result of modernization of equipment;
- improving the reliability of heat supply system by reducing indicators of damage to heating systems and primary equipment of power facilities;
- reduction in operating costs.

For the Consumer:

- improving the quality of services provided to the population for central heating and hot water;
- improvement of the environment in the city, due to the reduction of negative effect;
- reducing the pressure on raising tariffs for services in a heat supply as a result of lower cost of production, transportation and supply of thermal energy and reduce the operating costs of the enterprise.

In the course of execution of the works on the PROJECT some negative impacts can occur on the natural environment and social sphere. To reduce these impacts the environmental and social management plan (EPSMP) was developed.

The main EPSMP tasks were as follows:

- definition of the main potential positive and negative impacts on the natural environment and the social sphere, which may take place during the implementation of the project 2. activities for the Project;
- the definition of the set of measures to mitigate negative and increase positive environmental and social impacts during the construction phase and operation;
- definition of complex of measures for monitoring and control;
- definition of the institutional structure responsible for EPSMP implementation.

2.EXPECTED NEGATIVE IMPACTS DUE TO THE PROJECT AND MEASURES TO REDUCE THEM

To reduce the negative impact of the PROJECT on the environment and the social sphere mitigation measures were developed that must be implemented in the process of the PROJECT

execution to reduce potential negative impacts on the environment at the stages of construction works, dismantling and operation.

ATMOSPHERIC AIR

Impact. The main sources of the air pollution while performing works will be exhaust gas due to operation of construction machines, motor transport and other mechanisms, dust production processes and substances when pouring bulk materials.

Attenuation measures. With the aim of reducing the extent of the influence some measures will be taken to prevent dust formation, wetting of access roads and excavation zones, cleaning of the area after completion of works, conduct regular inspection of vehicles and minimize emissions from vehicles, provision of workers with individual protection means of respiratory organs (respirators, masks, etc).

NOISE IMPACT

Impact. The main sources of noise from the construction work and dismantling are traffic, use of construction equipment directly on the construction site (dump trucks, excavators, cranes, bulldozers, graders, etc.), processing of materials, installation of new equipment, piping, demolition of old infrastructure (old boilers).

Attenuation measures. For noise reduction the following measures are included: execution of work in the workplace; providing workers with personal protection equipment (headphones, potichomania liners) and timely notification to residents (10 days) regarding the need to work with a high level of noise at night.

THE EFFECT ON SOIL AND QUALITY OF SURFACE AND GROUNDWATER

Impact. The soil may be contaminated by accidental spills and leaks of oil and fuel, machinery and equipment, as well as washing vehicles on the construction site. Surface water and groundwater can be contaminated by accidental spills and fuel leaks from machinery and equipment during the period of PROJECT implementation, as well as surface runoff from the temporary construction sites containing suspended substances, organic substances, oil products.

Attenuation measures. In the course of the work you should prevent the leakage of fuel of vehicles. If such cases arise collect spilled oil or fuel and the removal of topsoil contaminated with oil or fuel with subsequent utilization. Washing vehicles is prohibited at the construction site. The project includes the roadway of streets rehabilitation of road asphalt pavement at the site, landscaping and green zone.

WASTE HANDLING

Impact. When carrying out works on dismantle of the old equipment the various types of waste will be formed, improper storage of which may lead to contamination of soil, groundwater and surface water, as well as injury to workers, visitors to production areas, and passers-by.

Attenuation measures. In the course of work the separate collection of waste will be provided in sealed containers installed in specially prepared places for temporary storage and transportation of waste to the landfill, or a company which specializes in specially equipped vehicles, excluding the possibility of loss of waste, the creation of an emergency, the harm to the environment and human health.

PREVENTION OF ACCIDENT SITUATIONS

Impact. In cases of non-compliance with established standards and safety regulations the emergencies can cause associated with fires and explosions. This can lead to injury of employees and persons who visit the production area or passing by, and to the damage of objects of property.

Attenuation measures. To prevent emergency situations you shall comply with regulations on labor safety and schedules of work. The staff involved in the works must be trained and have

a certificate for execution of works with increased hazard training before starting work. It is necessary to conduct regular fire and emergency training with staff. The warning and warning signs should be provided at the sites, dangerous areas should be fenced.

IMPACT ON FLORA

Impact. When constructing cogeneration plants and relaying of pipelines of heat supply network earth works will be performed, that will affect on flora and fauna.

Attenuation measures. To reduce the negative impact on flora and fauna during excavation works for the PROJECT, fertile layer of soil must be removed and taken to the reserved area. After completion of the work restoration of the soil layer, the landscaping, the organization of lawns and planting of fast-growing plantations will be carried out.

TRANSPORTATION IMPACT

Impact. The growth in traffic of heavy equipment and trucks towards the construction sites and removal and back increases the risk of road traffic accidents (RTA). The cause of such accidents can also be the improper organization of production processes.

Attenuation measures. To reduce the negative impact during transportation ensure the preparation of the transport routes, determination of the maximum speed of traffic, time of delivery of construction materials, removal of construction waste to the landfill, warning residents about upcoming construction activities, provide safe passageways for pedestrians in the areas of excavation.

THE IMPACT ON HUMAN HEALTH

Impact. Failure to comply with safety rules and hygiene of labour can lead to injury employees in the areas of construction and dismantling. Negative impact on human health during the implementation of their dismantling, or building have the old insulating materials for boilers and pipes containing asbestos.

Attenuation measures. To reduce the negative impact on human health from toxic materials (asbestos) or wastes provide the workers with personal protective equipment (goggles, gloves, respirators) and clothing. Conduct works with asbestos-containing materials in isolation from the surrounding territory with a fabric or plastic coverings. Collect asbestos-containing waste carried out in hermetically closed containers, temporary storage carried out in a designated area that has asphalt pavement, fencing, marking and driveways. Ensure regular wet cleaning of the asbestos and the surrounding area and removal of waste containing asbestos to the landfill.

IMPACT ON SOCIAL AND ECONOMIC DEVELOPMENT

Impact. The project does not impact negatively on industrial, housing and commercial facilities, surface and underground structures, cultural landscapes and will not lead to resettlement.

3. CONTROL

With the purpose of prevention of violations of requirements in the field of protection of the environment and labor protection, to reduce negative impact when performing works on the PROJECT objects, as well as timely elimination of the violations revealed they perform monitoring.

In accordance with the schedules regular checks of performance of attenuation measures of negative impacts will be carried out, organization of waste handling, availability of the environmental documentation, production documentation, building organizations, producing work on the subject of the Plan's environmental and social management, namely:

.ATMOSPHERIC AIR CONTROL

The performed work in all the areas of the PROJECT will not affect the state of the surface layer of the atmosphere. Control is carried out using the workers individual means of respiratory protection when performing dusty work.

During the operation of boilers that were reconstructed, the selective monitoring of ground layer of the atmosphere (NO, CO) 1 per year 1 point, taking into account the "wind rose" is performed. Sampling of atmospheric air is carried out by specialist accredited laboratory of the municipal enterprise "Sanepidservis" in accordance with the requirements of RD 52.04.186-89.

NOISE LEVEL CONTROL

During construction, monitoring is carried out using the workers personal protective equipment hearing.

During the operation of boilers that were reconstructed, selective monitoring 1 year per noise level in the control room of the boiler house is performed. Measuring the levels of harmful physical impacts (noise) is conducted by accredited laboratory of hygiene of labour in the labour protection service of the public utility "Kharkivski teplovi merezhi" and carried out with the help of measuring instruments in possession of the valid certificate of state verification.

CONTROL OF SOILS

Visual examination of the surface layer of the soils on the subject of oil/fuel in the areas of construction and dismantling.

CONTROL OF WASTE MANAGEMENT

Special attention is paid to the places of temporary waste disposal, wastes generated at construction sites of the object and documentation for the removal and disposal of waste. Control is carried out visually – constantly during construction period, once a quarter – during operation.

CONTROL OVER OBSERVANCE OF REQUIREMENTS OF FIRE SECURITY

Visual inspection of the places where the works will be performed and check of compliance with requirements of safe security of Ukraine is carried out.

MONITORING OF THE REHABILITATION WORKS

Visual inspection of territory of renovation of soil coating, planting of grass, trees after finishing the PROJECT works according to the plan is carried out.

CONTROL OVER THE MANAGEMENT OF VEHICLES

Monitoring traffic at construction sites is conducted in accordance with the plans of the organization of movement of transport and machinery. Control over the installation of speed limit signs is carried out, documentation is checked.

CONTROL OVER SAFETY RULES

Special attention is paid to safety at work, personal protective equipment, handling of toxic materials and waste, review of the documentation.

At all stages of the PROJECT the working conditions in the workplace, safety of technological processes, machines, mechanisms, equipment and other means of production, state of collective and individual protection used by the employee and sanitary conditions shall meet the requirements of the legislation.

4. PROJECT MANAGEMENT AND WORK WITH CITIZENS 'APPLICATIONS

With the purpose of the PROJECT implementation at public utility “Kharkivski teplovi merezhi” by order №19 dated 19.01.2015 the Service of management of efficiency improvement project is created. It includes the specialists as follows:

- director;
- financial management specialist;
- accounting specialist;
- procurement specialist;
- technical specialist (engineer);
- specialist of environment protection matters (ecologist);
- engineer.

Monitoring of compliance with the recommendations of the EPSMP from the public utility “Kharkivski teplovi merezhi” at the stage of construction and operation refers to the ecologist.

In the course of performing work on the PROJECT there may be questions related to its impact on the social sphere and the environment.

The company has developed and implemented the program of communication with the public, to ensure continuous public awareness of key environmental and social aspects throughout the future PROJECT implementation (including the stages of construction and operation).

At the public utility “Kharkivski teplovi merezhi” the service for work with applications of citizens was created that is responsible for the timely review and responses to the complaints of citizens according to the Law of Ukraine "Of applications of citizens". During PROJECT implementation, appropriate appeals from citizens will be accepted, registered and forwarded for appropriate work in a timely manner.

Citizens can send their comments also by e-mail to address: hte@vl.kharkov.ua, or put message at web-site of the company <http://www.hts.kharkov.ua>.

The company has call center, if citizens call by numbers 758-56-01, 758-56-02, 758-56-51, 758-56-96, they may give their comments, applications or messages.

To obtain the operational information on the provision of heating and hot water you can call in dispatching service of the company on the phone 738-21-09.

In addition, the city operates the City information-dispatching service, which ensures the reception of applications for repair and oral treatment of citizens and provision of background information where you can call 15-62.

With the aim of rapid response to citizens ' communications, developed a mechanism of receiving complaints from residents.

The General deadline for response to the complaint does not exceed 1 month from the date of receipt of the complaint.

Thus, regular monitoring of implementation of complex of measures according to the developed EPSMP, will allow to reduce the negative impact of the PROJECT on the environment and social sphere of the city.

Annex 25. Register of permits for emissions of pollutants into the atmospheric air by the stationary sources.

№	Administrative district of city, object address	Permit №	Date of permit receipt	Permit validity
1	Shevchenkivskiyi			
	boiler house, 17, Shekspira str.	6310136300-130	11.09.2014	11.09.2021
	boiler house, 5a, Dynamivska str.	6310136300-1449	13.10.2014	13.10.2024
	boiler house, 62, Semena Kuznetsia str.	6310136300-1451	13.10.2014	unlimited
	boiler house, 22, Ivanivska str.	6310136300-1452	13.10.2014	unlimited
	boiler house, 195a, Klochkivska str.	6310136300-1453	13.10.2014	unlimited
	boiler house, 113, Armiiska str.	6310136300-139	24.11.2009	unlimited
	boiler house, 1, Frontovykiv blvd.	6310136300-140	24.11.2009	unlimited
	boiler house, 152, Derbentska str.	6310136300-142	24.11.2009	unlimited
	boiler houses, 14, 20, 20a, Bukova str.	6310136300-143	24.11.2009	unlimited
	boiler house, 19, Rohatynskiyi lane	6310136300-145	24.11.2009	unlimited
	boiler houses, 77, Peremohy ave.	6310136300-147	24.11.2009	unlimited
	boiler house, 61/63, Klochkivska str.	6310136300-150	24.11.2009	unlimited
	CHS 2/26, 9a, Akademika Liapunova str.	6310136300-136	24.11.2009	unlimited
	CHS 2/19, 50r, Peremohy ave.	6310136300-137	24.11.2009	unlimited
	CHS 2/9, 4B, Novhorodska str.	6310136300-138	24.11.2009	unlimited
	OPS 4-3, 325a, Klochkivska str.	6310136300-144	24.11.2009	unlimited
	CHS 2/13, 9a, Starytskoho str.	6310136300-151	24.11.2009	unlimited
2	Kyivskiyi			
	boiler house, 1, Akademichna str.	6310136600-116	11.09.2014	11.09.2021
	boiler house, 1, Akademika Proskury str.	6310136600-117	11.09.2014	11.09.2021
	boiler house, 12, Akademika Proskury str.	6310136600-1440	09.10.2014	09.10.2024
	boiler house, 106, Saperna str.	6310136600-1441	09.10.2014	09.10.2024
	boiler house, 70, Pomirky str.	6310136600-1422	07.10.2014	07.10.2024
	boiler house, 301a, Shevchenka str.	6310136600-1427	07.10.2014	07.10.2024
	boiler house, 25a, Metrobudivnykiv str.	6310136600-1436	09.10.2014	09.10.2024

	boiler houses,12, 13, Metrobudivnykiv str.	6310136600-1437	09.10.2014	09.10.2024
	boiler house, 281a, Druzhby Narodiv str.	6310136600-1438	09.10.2014	09.10.2024
	boiler house, 233a, Shevchenka str.	6310136600-1439	09.10.2014	09.10.2024
	boiler house, YRC Internationalist, 70, Gorianska str.	6310136600-1482	03.11.2014	03.11.2024
	boiler house, 1, Teplychna str.	6310136600-1423	07.10.2014	unlimited
	boiler house, 32, Moiseiivska str.	6310136600-1425	07.10.2014	unlimited
	boiler house, 16, Chernyshevska str.	6310136600-1426	07.10.2014	unlimited
	котельні, 23,24, Henerala Udovychenka str.	6310136600-1434	07.10.2014	unlimited
	boiler house, 38, Bilhorodske highway	6310136600-124	24.11.2009	unlimited
	boiler house, 4a, Ostrohradskiyi lane	6310136600-131	24.11.2009	unlimited
	boiler house, 4, Henerala Udovychenka str.	6310136600-132	24.11.2009	unlimited
	boiler house, 27, Pomirky str.	6310136600-134	24.11.2009	unlimited
	boiler house, 83, Pushkinska str.	6310136600-137	24.11.2009	unlimited
	boiler house, 2r, Skadovskoho str.	6310136600-139	24.11.2009	unlimited
	boiler house, 29, Budivelna str.	6310136600-141	24.11.2009	unlimited
	boiler house, 165, Shevchenka str.	6310136600-143	24.11.2009	unlimited
	boiler house, 180, Shevchenka str.	6310136600-144	24.11.2009	unlimited
	boiler house, 222, Shevchenka str.	6310136600-145	24.11.2009	unlimited
	industrial site, 27, Danilevskoho str.	6310136600-125	24.11.2009	unlimited
	industrial site, 102 Natalii Uzhvii str.	6310136600-130	24.11.2009	unlimited
	CHS, 7a, Pozdozhnia str.	6310136600-136	24.11.2009	unlimited
	CHS, 6a, Staroshyshkivska str.	6310136600-140	24.11.2009	unlimited
3	Slobidskyi			
	boiler house, 2/1, Kostycheva str.	6310136900-92	11.09.2014	11.09.2021
	boiler house, 199/2, Gagarina ave.	6310136900-1350	11.09.2014	11.09.2024
	boiler house, 9, Nesterova str.	6310136900-1384	18.09.2014	18.09.2024
	boiler house, 87, Polova str.	6310136900-1385	18.09.2014	unlimited
	boiler house, 16, Serednouralska str.	6310136900-1388	19.09.2014	unlimited
	boiler house, 126, Plekhanivska str.	6310136900-1389	19.09.2014	unlimited
	CHS 4/25, 4/1, Zhasminovyi blvd.;	6310136900-96	22.10.2009	unlimited
	industrial site 186, Petra Hryhorenka ave.			

	CHS 4/40, 55/1, Zernova str.	6310136900-97	22.10.2009	unlimited
	ABK/PAO, 11,15, Mefodiivska str.	6310136900-98	22.10.2009	unlimited
4	Kholodnohirskiy			
	boiler house, 8, Slovianska str.	6310137200-1641	25.12.2014	25.12.2024
	boiler house, 29, Velyka Panasivska str.	6310137200-1642	25.12.2014	25.12.2024
	boiler house, 36, Poltavskiy Shliakh str.	6310137200-1606	17.12.2014	unlimited
	boiler house, 19/2, Zaliutynska str.	6310137200-1608	17.12.2014	unlimited
	boiler house, 30, Kurylivska str.	6310137200-1609	17.12.2014	unlimited
	boiler house, 60a, Kotsarska str.	6310137200-1610	17.12.2014	unlimited
	boiler house, 45 (1,2) Kandaurova str.	6310137200-1611	17.12.2014	unlimited
	boiler houses, 20a, 83 Sochinska str., 35, 41 Novyi Pobut str., 40a, Pskovska str.	6310137200-1614	17.12.2014	unlimited
	boiler houses, 2/2, 17, Yaroslavska str.	6310137200-1615	17.12.2014	unlimited
	boiler houses, 67, Velyka Panasivska str., 10, Vosmoho Bereznia str., 22/24, Malopanasivska str.	6310137200-1619	19.12.2014	unlimited
	boiler houses, 17,13ж,32, Blahovishchenska str.	6310137200-1620	19.12.2014	unlimited
	boiler house, 41, Kurylivska str.	6310137200-121	24.12.2009	unlimited
	boiler house, 3, Afansivska str.	6310137200-122	24.12.2009	unlimited
	boiler house, 11, Volonterska str.	6310137200-123	24.12.2009	unlimited
	boiler house, 5, Verkhivskiy lane	6310137200-124	24.12.2009	unlimited
	boiler house, 90, Poltavskiy Shliakh str.	6310137200-125	24.12.2009	unlimited
	boiler house, 11, Ashhabadskiy lane	6310137200-126	24.12.2009	unlimited
	boiler house, 25a, Volodymyra Usenka lane	6310137200-127	24.12.2009	unlimited
	boiler house, 3, Zaliznychna str.	6310137200-128	24.12.2009	unlimited
	boiler house, 65, Ozerianska str.	6310137200-132	24.12.2009	unlimited
	boiler house, 2a, Vitebska str.	6310137200-133	24.12.2009	unlimited
	boiler house, 12, Baltiiska str.	6310137200-134	24.12.2009	unlimited
	boiler house, 23, Kamianets-Podilska str.	6310137200-135	24.12.2009	unlimited
	boiler house, 27/5, Berkosa str.	6310137200-136	24.12.2009	unlimited
	boiler house, 63, Osetinska str.	6310137200-137	24.12.2009	unlimited
	boiler house, 27a, Blahovishchenska str.	6310137200-139	24.12.2009	unlimited

	boiler house, 35, Zaliznychna str.	6310137200-142	24.12.2009	unlimited
	boiler house, 4, Nizhinska str.	6310137200-143	24.12.2009	unlimited
	boiler house, 205, Velyka Pansivska str.	6310137200-149	24.12.2009	unlimited
	boiler house, 49/51, Rylieieva str.	6310137200-150	24.12.2009	unlimited
	boiler house, 41/43, Andriivska str.	6310137200-151	24.12.2009	unlimited
	boiler house, 8, Skovorodynivska str.	6310137200-152	24.12.2009	unlimited
	boiler house, 6, Rizdviana str.	6310137200-155	24.12.2009	unlimited
	boiler houses, 2/15,10/12, Blahovishchenska str.	6310137200-157	24.12.2009	unlimited
	boiler house, 7, Ihoria Muratova str.	6310137200-160	24.12.2009	unlimited
	CHS 3/10, 28, Ihoria Muratova str.	6310137200-1607	17.12.2014	unlimited
	industrial site, 1, Zemivska str.	6310137200-141	24.12.2009	unlimited
	CHS 3/1, 1526, Poltavskyi Shliakh str.	6310137200-145	24.12.2009	unlimited
	CHS 3/9, 3, Kholodnohirska str.	6310137200-161	24.12.2009	unlimited
5	Moskovskyi			
	boiler house, 4, Artema Vedelia str.	6310137500-74	11.09.2014	11.09.2021
	boiler houses, 9a, Dzherelna str., 228a, Druzhby Narodiv str.	6310137500-1351	11.09.2014	11.09.2024
	boiler houses, 20, 27,a, 30, Akademika Pavlova str.	6310137500-1370	16.09.2014	16.09.2024
	boiler house, 19/318, Yenakiivska str.	6310137500-1365	16.09.2014	unlimited
	boiler house, 40, Tiurinska str.	6310137500-1367	16.09.2014	unlimited
	boiler house, 55, Traktorobudivnykiv ave.	6310137500-1369	16.09.2014	unlimited
	boiler house, 185, Moskovskyi ave.	6310137500-1371	16.09.2014	unlimited
	boiler houses, 73г. 73в, Saltivske highway	6310137500-1372	16.09.2014	unlimited
	boiler house, 104, Krasnodarska str.	6310137500-1373	16.09.2014	unlimited
	CHS "Budmitechko-1", 35г, Vladyslava Zubenka str.	6310137500-1366	16.09.2014	unlimited
	CHS 533/1, 47в, Heroiiv Pratsi str.	6310137500-1368	16.09.2014	unlimited
	ABK/PAO, 6, Artema Vedelia str.	6310137500-82	22.10.2009	unlimited
	ABK/PAO, 13, Svitla str.	6310137500-83	22.10.2009	unlimited
	CHS 531/2, 34є, Buchmy str.	6310137500-84	22.10.2009	unlimited
	CHS 616, 27a, Hvardiitsiv-Shitonintsiv str.	6310137500-86	22.10.2009	unlimited
	CHS 607/2, 83ж, Traktorobudivnykiv ave.	6310137500-87	22.10.2009	unlimited
	CHS 604/2, 139д, Saltivske highway	6310137500-89	22.10.2009	unlimited

6	Novobavarskyi			
	boiler house, 99, Moskalivska str.	6310137900-108	11.09.2014	11.09.2021
	boiler house, 18, Kybalchycha str.	6310137900-1571	10.12.2014	10.12.2024
	boiler house, 76, Bavarska str.	6310137900-1580	11.12.2014	11.12.2024
	boiler houses, 9a, 20, Kataieva str.	6310137900-1582	11.12.2014	11.12.2024
	boiler houses, 7a, 12, Konieva str.	6310137900-1602	16.12.2014	16.12.2024
	boiler house, 5a, Svyntarenka str.	6310137900-1603	16.12.2014	16.12.2024
	boiler houses, 90, 99a, Novo-Bavarskyi ave.	6310137900-1604	16.12.2014	16.12.2024
	boiler house, 42, Timiriazeva str.	6310137900-1605	16.12.2014	16.12.2024
	boiler house, 26, Yudina str.	6310137900-1640	25.12.2014	25.12.2024
	boiler house, 23a, Svitlanivska str.	6310137900-1570	10.12.2014	unlimited
	boiler house, 4, Stantsiina str.	6310137900-1572	10.12.2014	unlimited
	boiler house, 1, Lizy Chaikinoi str.	6310137900-1573	10.12.2014	unlimited
	boiler house, 143, Seminarska str.	6310137900-1574	10.12.2014	unlimited
	boiler house, 37, Hvardiitsiv-Zaliznychnyiv str.	6310137900-1575	10.12.2014	unlimited
	boiler house, 21/23, Karpivskyi lane	6310137900-1576	10.12.2014	unlimited
	boiler house, 42a, Vrubelia str.	6310137900-1577	10.12.2014	unlimited
	boiler house, 9, Karachivske highway	6310137900-1578	10.12.2014	unlimited
	boiler houses, 46, 63a, Seminarska str.	6310137900-1579	10.12.2014	unlimited
	boiler houses, 2, 6, 9, 11, 12, Kontorska str.	6310137900-1581	11.12.2014	unlimited
	boiler house, 2, Seminarska str.	6310137900-1585	12.12.2014	unlimited
	boiler houses, 14, Pestrikova str., 5/7, Karpivskyi lane, 6/10, Polzunova lane	6310137900-1586	12.12.2014	unlimited
	boiler houses, 3/5, 17b, 19, Poltavskyi Shliakh str., 25, Yaroslavska str.	6310137900-1587	12.12.2014	unlimited
	boiler houses, 45, 51, Liubovi Maloi ave.	6310137900-122	24.12.2009	unlimited
	boiler house, 47a, Pushkarivska str.	6310137900-123	24.12.2009	unlimited
	boiler house, 88a, Seminarska str.	6310137900-126	24.12.2009	unlimited
	boiler house, 14/16, Bondarivska str.	6310137900-128	24.12.2009	unlimited
	boiler house, 13, Marka Bernesa str.	6310137900-129	24.12.2009	unlimited
	boiler houses, 32, 46/5, Seminarska str.	6310137900-131	24.12.2009	unlimited
	boiler houses, 57a, 57b, Seminarska str.	6310137900-132	24.12.2009	unlimited

boiler house, 12, Kashirskoho str.	6310137900-134	24.12.2009	unlimited
boiler house, 1, Odoievskyi lane	6310137900-137	24.12.2009	unlimited
boiler house, 113, Valerianivska str.	6310137900-138	24.12.2009	unlimited
boiler houses, 22, 36, Moskalivska str.	6310137900-139	24.12.2009	unlimited
boiler houses, 58, 59, Moskalivska str.	6310137900-140	24.12.2009	unlimited
boiler house, 2/3, Volodymyrska str.	6310137900-141	24.12.2009	unlimited
boiler house, 92, Moskalivska str.	6310137900-142	24.12.2009	unlimited
boiler house, 142, Moskalivska str.	6310137900-143	24.12.2009	unlimited
boiler house, 14, Stoliarnyi lane	6310137900-144	24.12.2009	unlimited
boiler house, 17, Konieva str.	6310137900-145	24.12.2009	unlimited
boiler house, 35, Volodymyrska str.	6310137900-147	24.12.2009	unlimited
boiler house, 26, Kontorska str.	6310137900-151	24.12.2009	unlimited
boiler house, 11, Velyka Honcharivska str.	6310137900-152	24.12.2009	unlimited
boiler house, 53/55, Poltavskyi Shliakh str.	6310137900-154	24.12.2009	unlimited
boiler house, 90, Kontorska str.	6310137900-155	24.12.2009	unlimited
boiler house, 93, Kontorska str.	6310137900-156	24.12.2009	unlimited
boiler house, 16, Hostynna str.	6310137900-157	24.12.2009	unlimited
boiler house, 18, Mariinska str.	6310137900-158	24.12.2009	unlimited
boiler house, 5, Metiznyi lane	6310137900-160	24.12.2009	unlimited
boiler house, 8, Bulvarna str.	6310137900-164	24.12.2009	unlimited
boiler house, 17, Perovskoi str.	6310137900-165	24.12.2009	unlimited
boiler houses, 48, Konotopska str., 41, Lysenka str.	6310137900-166	24.12.2009	unlimited
boiler house, 17, Hertsenka str.	6310137900-167	24.12.2009	unlimited
boiler house, 53, Lomonosova str.	6310137900-168	24.12.2009	unlimited
boiler house, 11/13, Novo-Bavarskyi ave.	6310137900-169	24.12.2009	unlimited
boiler house, 87, Kostiantyna Kalinina str.	6310137900-172	24.12.2009	unlimited
boiler house, 10, Timiriazieva str.	6310137900-175	24.12.2009	unlimited
boiler house, 66, Naboichenka Petra str.	6310137900-176	24.12.2009	unlimited
boiler house, 22, Hryboiedova str.	6310137900-178	24.12.2009	unlimited
boiler house, 77, Novo-Bavarskyi ave.	6310137900-179	24.12.2009	unlimited
boiler house, 7a, St. Nova Bavariia str.	6310137900-180	24.12.2009	unlimited

	boiler house, 19, Piatysotnytska str.	6310137900-182	24.12.2009	unlimited
	CHS, 4, Yurii Parashchuka str.	6310137900-184	24.12.2009	unlimited
	CHS, 4a, Mykoly Bazhana str.	6310137900-185	24.12.2009	unlimited
7	Industrialnyi			
	TPP-4, 275, Moskovskiy ave.	6310138200-88	11.09.2014	11.09.2021
	boiler house, 7a, Elektrovozna str.	6310138200-1335	01.09.2014	01.09.2024
	boiler house, 11, Piatykhatska str.	6310138200-1357	12.09.2014	12.09.2024
	boiler house, 69, Mokhnatska str.	6310138200-1358	12.09.2014	12.09.2024
	boiler house, 74a, Myru str.	6310138200-1359	12.09.2014	12.09.2024
	boiler house, 6, Rumiantsivska str.	6310138200-1381	17.09.2014	unlimited
	boiler house, 1, Mekhanizatoriv str.	6310138200-1383	17.09.2014	unlimited
	boiler house, 1a, Tarkhova str.	6310138200-93	20.10.2009	unlimited
	CHS, 71A, Oleksandrivskiy ave., 3A, Kosarieva str.	6310138200-94	20.10.2009	unlimited
8	Osnovianskyi			
	boiler house, 16, Litakova str.	6310138800-1496	06.11.2014	06.11.2024
	boiler house, 262, Gagarina ave.	6310138800-1504	06.11.2014	06.11.2024
	boiler house, 27a, Dyspetcherska str.	6310138800-1519	12.11.2014	12.11.2024
	boiler house, 22, Dostoievskogo str.	6310138800-1520	12.11.2014	12.11.2024
	boiler house, 1, Biolohichna str.	6310138800-1521	12.11.2014	12.11.2024
	boiler house, 70, Holdberhivska str.	6310138800-1494	06.11.2014	unlimited
	boiler house, 1a, Biolohichna str.	6310138800-1497	06.11.2014	unlimited
	boiler house, 100, Holdberhivska str.	6310138800-1498	06.11.2014	unlimited
	boiler houses, 17б, 17в, 17г, 17д, 17е, 17і, 17к, 17ж, 17з, Merefianske highway	6310138800-1512	10.11.2014	unlimited
	boiler houses, 112, Holdberhivska str., 57/59, Moskalivska str.	6310138800-180	24.11.2009	unlimited
	boiler houses, 300, 302, 306, Gagarina ave.	6310138800-187	24.11.2009	unlimited
	boiler house, 314a, Gagarina ave.	6310138800-188	24.11.2009	unlimited
	boiler house, 334, Gagarina ave.	6310138800-189	24.11.2009	unlimited
	boiler house, 354, Gagarina ave.	6310138800-190	24.11.2009	unlimited
	boiler house, 42, Hordiienkivska str.	6310138800-191	24.11.2009	unlimited

	boiler house, 30, Hrekivska str.	6310138800-192	24.11.2009	unlimited
	boiler house, 1, Dostoievskoho str.	6310138800-194	24.11.2009	unlimited
	boiler house, 14, Dostoievskoho str.	6310138800-195	24.11.2009	unlimited
	boiler house, 89a, Dostoievskoho str.	6310138800-197	24.11.2009	unlimited
	boiler house, 18a, Karierna str.	6310138800-199	24.11.2009	unlimited
	boiler house, 25, Kvitkynska str.	6310138800-200	24.11.2009	unlimited
	boiler house, 1, Biolohichni lane	6310138800-204	24.11.2009	unlimited
	boiler house, 1, Lymanskyi lane	6310138800-205	24.11.2009	unlimited
	boiler house, 9, Tsyharivskyi lane	6310138800-206	24.11.2009	unlimited
	boiler house, 3, Poltavska str.	6310138800-207	24.11.2009	unlimited
	boiler house, 13, Pryvokzalna str.	6310138800-208	24.11.2009	unlimited
	boiler houses, 1, 5a, 9a, Sokhora str.	6310138800-210	24.11.2009	unlimited
	boiler house, 19, Ternopilska str.	6310138800-211	24.11.2009	unlimited
	boiler house, 82, Kharkivska str.	6310138800-212	24.11.2009	unlimited
	boiler house, 16, Myrhorodska str.	6310138800-202	24.11.2009	unlimited
	CHS 3/23 62 A, Gagarina ave.	6310138800-183	24.11.2009	unlimited
	CHS 3/6 174A, Gagarina ave.	6310138800-184	24.11.2009	unlimited
	CHS 3/5 5A, Moskalivska str.	6310138800-203	24.11.2009	unlimited
9	Nemyshlianskyi			
	boiler house, 7, Hryshchenka str.	6310138500-1379	17.09.2014	17.09.2024
	boiler house, 82-A, Kulynychivska str.	6310138500-1380	17.09.2014	unlimited
	ABK/PAO, 6/8, Stadionnyi alley	6310138500-98	20.10.2009	unlimited
	CHS 624, 5A, Amosova str.	6310138500-99	20.10.2009	unlimited
	CHS 4/35 33A, Rybalka str.	6310138500-100	20.10.2009	unlimited
	CHS 23A (PAO), Olimpiiska str.	6310138500-101	20.10.2009	unlimited
	CHS 4/1 19/1, Yurieva blvd.	6310138500-102	20.10.2009	unlimited
10	Transport Branch			
	ABK/PAO, 6, Artema Vedelia str.	6310137500-93	24.12.2009	unlimited
11	CHP-3			
	3, Enerhetychna str.	6310138500-136	30.12.2015	30.12.2022

Annex 26. Explanation letter of the Department of environment and natural resources of Kharkiv Regional State Administration.



ХАРКІВСЬКА ОБЛАСНА ДЕРЖАВНА АДМІНІСТРАЦІЯ

ДЕПАРТАМЕНТ ЕКОЛОГІЇ ТА ПРИРОДНИХ РЕСУРСІВ

м-н Свободи, 5, Держпром, 4 під., 7 пов., м. Харків, 61022, тел./факс (057) 705-06-83

E-mail: ecodepart@ukr.net

На № 06.02.2015 № 04.02-17-824
від _____

**Генеральному директору
КП «Харківські теплові мережі»
Андрєєву С.Ю.**

Розглянувши Ваш лист від 29.01.15 №22-273 стосовно надання роз'яснення щодо отримання дозволу на здійснення операцій у сфері поводження з відходами на 2015 рік, Департамент екології та природних ресурсів Харківської обласної державної адміністрації (далі – Департамент) повідомляє наступне.

Законом України «Про внесення змін до деяких законодавчих актів України щодо скорочення кількості документів дозвільного характеру», який набрав чинності з 26.04.2014, скасовано дозвіл на розміщення відходів та ліміти на утворення та розміщення відходів.

Відповідно до ст. 17 Закону України «Про відходи» зі змінами, внесеними Законом, суб'єкти господарської діяльності у сфері поводження з відходами зобов'язані мати дозвіл на здійснення операцій у сфері поводження з відходами, крім суб'єктів господарювання у сфері поводження з відходами, діяльність яких призводить виключно до утворення відходів, для яких показник загального утворення відходів (далі – $P_{зув}$) не перевищує 1000 умовних одиниць.

За інформацією Департаменту дозвільно-ліцензійної діяльності та регуляторної політики Міністерства екології та природних ресурсів України від 22.01.2015 №7/118-15, на виконання доручення Кабінету Міністрів України від 12.05.2014 №15792/1/1-14 щодо виконання п. 3 Прикінцевих положень Закону України «Про внесення змін до деяких законодавчих актів України щодо скорочення кількості документів дозвільного характеру» Мінприроди України розроблено проект постанови Кабінету Міністрів України «Про затвердження Порядку надання дозволів на здійснення операцій у сфері поводження з відходами та подання декларацій про відходи», який було погоджено із заінтересованими центральними органами виконавчої влади та подано на розгляд Уряду. У зв'язку із зміною складу Уряду, відповідно до Регламенту Кабінету Міністрів України, затвердженого постановою Кабінету Міністрів України від 18.07.2007 №950, Мінприроди України повторно направило на

погодження зазначений проект постанови заінтересованим центральним органам виконавчої влади.

На теперішній час порядок видачі вказаного дозволу законодавчо не врегульовано. Надання дозволів на здійснення операцій у сфері поводження з відходами повинно здійснюватись згідно з вимогами відповідних Порядків після затвердження їх Кабінетом Міністрів України.

Директор Департаменту



І. Капусник

Кушнерський 7050681
Теребило 7050663
Омельянова 7050663

СОГЛАСОВАНО:

Начальник отдела экологии
Департамента жилищно-коммунального
хозяйства и энергетики



Богатырь В.И.

2010г.

Заявление о намерениях

1. Инвестор (заказчик): КП «Харьковские тепловые сети»

Почтовый и электронный адрес: Харьковская область, г. Харьков, ул. Доброхотова, 11.

2. Местоположение площадки строительства: Харьковская область, г. Харьков, Московский район, ул. Столетова, 4. Территория районной котельной.

3. Характеристика деятельности (объекта): Установка в пристраиваемом к существующей котельной одноэтажном проектируемом здании двух когенерационных установок TEDOM CAT 2000 с генераторными агрегатами Caterpillar G3520C LE и технологическим модулем утилизации отработанных газов TM C2000.

4. Социально-экономическая необходимость планируемой деятельности: Положительным социально-экономическим аспектом реализации планируемой деятельности является снижение себестоимости отпускаемой тепловой энергии в тепловую сеть за счет сочетания технологии высокоэффективного использования первичного источника энергии — природного газа, для получения двух форм энергии — тепловой и электрической. Данное решение позволяет существенно снизить затраты на потребляемую энергию и обеспечить качественное, бесперебойное энергоснабжение населения Московского района г. Харькова.

5. Потребность в ресурсах при строительстве и эксплуатации:
земельных: площадь проектируемой застройки 700м². Целевое назначение участка — земли промышленные, в том числе земли энергетической системы;
сырьевых: в соответствии со строительным проектом и технологическим регламентом; проектный расход топлива составляет 7884 тыс. нм³/год.
энергетических: годовой расход электроэнергии на собственные нужды — 964тыс.кВт-ч;
водных: 42 м³/год на хозяйственные нужды обслуживающего персонала.
трудовых: Штат принят согласно НТПД-90 "Нормы технологического проектирования дизельных электростанций".

6. Транспортное обеспечение (при строительстве и эксплуатации): доставка стройматериалов, оборудования, вывоз строительного и бытового мусора осуществляется арендованным автотранспортом;

7. Экологические и прочие ограничения планируемой деятельности по вариантам: концентрации загрязняющих веществ, выбрасываемых в атмосферный воздух, не должны превышать 1,0 ПДК.

8. Необходимая эколого-инженерная подготовка и защита территории по вариантам: не требуется.

9. Возможные воздействия планируемой деятельности (при строительстве и эксплуатации) на окружающую среду:

климат и микроклимат – не оказывает;

воздушную – незначительное, в процессе эксплуатации в атмосферный воздух выделяются оксиды углерода (0,124 г/с или 3,912 т/год), оксиды азота NO_x (0,662 г/с или 20,862 т/год), ртуть металлическая (8,2E-7 г/с или 2,6E-5 т/год) и газы парникового эффекта: диоксид углерода (486,229 г/с или 15333,704 т/год), метан (0,021 г/с или 0,652 т/год), оксид диазота (0,008 г/с или 57064,626 т/год);

водную – не оказывает;

почвы – не оказывает;

растительный и животный мир, заповедные объекты – не оказывает;

окружающую социальную среду (население) – не оказывает;

окружающую техногенную среду – не оказывает.

10. Отходы производства и возможность их повторного использования, утилизации, обезвреживания или безопасного захоронения:

В состав отходов проектируемого объекта входят: строительный мусор, ТБО, люминесцентные лампы, отработанное техническое масло. Вывоз вышеперечисленных отходов осуществляется специализированными предприятиями, имеющими соответствующие лицензии, согласно договорам. Повторному использованию отходы не подлежат.

11. Объем выполнения ОВОС: в соответствии с ДБН А.2.2-1-2003. Державні будівельні норми України. Склад і зміст матеріалів оцінки впливів на навколишнє середовище (ОВНС) при проектуванні і будівництві підприємств, будинків і споруд.

12. Участие общественности:

Общественность и другие заинтересованные стороны узнают о планируемой деятельности через средства массовой информации, заявление об экологических последствиях проектируемой деятельности публикуется в печатном издании.

Предложения и замечания принимаются в течение 30 дней с момента публикации «Заявления о намерениях» по адресу ул. Доброхотова, 11, каб. 503в либо по т 758-84-92.

Общественные слушания по вопросу строительства когенерационной станции проводились _____. Результатом общественных слушаний была односторонняя поддержка запланированной деятельности.

Заказчик:
Директор
КП «Харьковские тепловые сети»


С.Ю. Андреев
201_г.

Генпроектировщик:
Директор
ЗАО НПО «ТОР» ДП "Специальное
проектно-конструкторское
технологическое бюро "ТОР"


В.И.Ободов
201_г.

Annex 28. List of boilers, which will be dismantled on the component “Decommissioning of boiler houses, installation of individual heating stations and reconstruction of heating networks”.

№	Name of the object, address	Boiler unit grade	Heat efficiency of boiler unit, Gcal/h	Commercial operation year	Hours in operation (as on 2013)
1	boiler house, 199/2, Gagarina ave.	NIISTU-5	0.5	1989	85 358
		NIISTU-5	0.5	1976	135 103
		NIISTU-5	0.5	1976	122 580
		NIISTU-5	0.5	1976	162 759
		NIISTU-5	0.5	1976	158 457
		NIISTU-5	0.5	1976	261 360
		NIISTU-5	0.5	1991	124 077
2	boiler house №1, 77, Peremohy ave.	Boiler unit FEH-Vestal (10 heat modules AF-105)	1.032	2004	41 520
3	boiler house №2, 77, Peremohy ave.	Boiler unit FEH-Vestal (10 heat modules AF-105)	1.032	2004	41 520
4	boiler house, 57A, Seminarska str.	NIISTU-5	0.3	1962	227 136
		NIISTU-5	0.3	1962	154 960
5	boiler house, 12, Kashirskoho str.	Nadtochiia	0.348	1985	126 672
6	boiler house, 46/5, Seminarska str.	NIISTU-5	0.25	1958	211 008
		NIISTU-5	0.3	1991	77 464
7	boiler house, 47A, Pushkarivska str.	Altair RTN E-100	0.086	2007	23 576
		Altair RTN E-100	0.086	2007	23 576
8	boiler house, 46, Seminarska str.	NIISTU-5	0.5	1998	42 560
		NIISTU-5	0.5	1998	41 920
		NIISTU-5	0.5	2007	18 410
9	boiler house, 45, Liubovi Maloi ave.	NIISTU-5	0.25	1995	82 992
10	boiler house, 51, Liubovi Maloi ave.	NIISTU-5	0.5	1993	87 528
		NIISTU-5	0.5	2003	48 048

11	boiler house, 57Б, Seminarska str.	NIISTU-5	0.4	1986	122 304
12	boiler house, 2Б, Yudina str.	NIISTU-5	0.565	1987	132 300
		NIISTU-5	0.565	1994	47 412
		NIISTU-5	0.565	1976	124 184
		NIISTU-5	0.565	1976	120 612
		NIISTU-5	0.565	1987	80 514
		NIISTU-5	0.565	2002	53 064

Annex 29. List of pump units, which will be dismantled on the component
 “Decommissioning of boiler houses, installation of individual heating stations and
 reconstruction of heating networks”.

№	Name of the object, address	Pump grade	Pump application	Efficiency, m ³ /hour	Head, m	Electrical capacity of engine, KW	Engine voltage, kV	Year of installation
1	boiler house, 199/2, Gagarina ave.	K-150-125-250	line	200	20	10	0.4	1982
		8K2/26	line	50	32	7.5	380	2005
		K-80-50-200	CWS	50	50	7.5	380	1976
		K-80-50-200	CWS	50	50	7.5	380	1976
		K-65-50-160	HWS	25	32	7.5	380	1976
		K-150-125-250	line	200	20	15	380	1988
		K-65-50-160	drain	25	32	4	380	1986
2	boiler house №1, 77, Peremohy ave.	Wilo Star RS 25/6	line	3.5	6	0.1	380	2005
		Wilo Star RS 25/6	line	3.5	6	0.1	380	2005
		Wilo Star RS 25/6	line	3,5	6	0.1	380	2005
		GRUNDFOS UPSD 65-180F	line	51	2.5	1.55	380	2012
3	boiler house №2, 77, Peremohy ave.	GRUNDFOS UPSD 65-180F	line	51	2.5	1.55	380	2005
4	boiler house, 57A, Seminarska str.	K-65-50-160	line	25	32	4.5	380	2010
		K-80-50-200	line	50	50	7.5	380	2010
5	boiler house, 12, Kashirskoho str.	GRUNDFOS NB 32-160/163	line	34.5	36	4	380	2007
		K-65-50-160	line	25	32	5.5	380	2010
6	boiler house, 46/5, Seminarskaya str.	K-65-50-160	line	25	32	5.5	380	2010

		GRUNDFOS NB 32-125/106	line	21	10.8	1.1	380	2011
7	boiler house, 46, Seminarska str.	KM-100-80-160	line	100	32	15	380	1988
		KM-100-80-160	line	100	32	15	380	1988
8	boiler house, 57Б, Seminarska str.	K-65-50-160	line	25	32	2.2	380	2010
		K-80-65-160	line	50	32	4	380	2010
9	boiler house, 47A, Pushkarivska str.	Wilo-TOP-S 50/15	line	36	16	1.6	380	2007
		Wilo-TOP-S 50/15	line	36	16	1.6	380	2007
		Wilo HWJ 203	boost	4,5	43	1.1	380	2007
10	boiler house, 45, Liubovi Maloi ave.	Wilo-TOP-S 40/15	circulating	20	15	0,9	380	2013
		K-80-65-160	line	50	32	5.5	380	1995
11	boiler house, 51, Liubovi Maloi ave.	Lowara FCE 50- 160/40	line	51	38	4	380	2009
		Lowara FCE 50- 160/40	line	51	38	4	380	2009
12	boiler house, 2Б, Yudina str.	K-80-65-160	line	50	33	7.5	380	2000
		K-80-65-160	line	50	34	7.5	380	2000
		K-65-50-160	HWS	25	35	4	380	2000
		K-65-50-160	HWS	25	36	4	380	2000

Annex 30. List of heat-exchange equipment, which will be replaced at the boiler houses by the new one on the component “Decommissioning of boiler houses, installation of individual heating stations and reconstruction of heating networks”

№	Name of object, address	Type, construction of heat exchanger	Application	Surface of heating, m ²	Number of plates, pcs.	Year of installation
1	boiler house, 199/2, Gagarina ave.	Plate heat exchanger R 0.3p	HWS	21	70	1988
		Plate heat exchanger R 0.3p	HWS	22.8	76	1992
2	boiler house, 2Б, Yudina str.	Plate heat exchanger R 0.3p	HWS	20.1	67	2004
		Plate heat exchanger R 0.3p	HWS	24.9		2004

Annex 31. List of the boilers, which will be dismantled and replaced by the new ones on the component "Reconstruction of boiler houses".

№	Name of the object, address	Boiler unit grade	Heat efficiency of boiler unit, Gcal/h	Commercial operation year	Hours in operation (as on 2013)
1	boiler house "Aeroport", 9, Nesterova str.	KBNH-3.15	2.7	1999	37 368
		KBNH-3.15	2.7	2004	27 060
		KBNH-3.15	2.7	2010	7 920
		KOLVI-250	0.25	2011	4 402
		KOLVI-250	0.25	2011	4 392
2	boiler house, 7, Hryshchenka str.	KVH-6.5-150	6.5	1992	62 856
		KVH-6.5-150	6.5	1992	69 936
3	boiler house, 82A, Kulynychivska str.	NIISTU-5	0.3	1999	59 400
		NIISTU-5	0.3	1989	39 600
4	boiler house, 20, Bukova str.	AOHV -100	0.086	2003	42 368
		AOHV -100	0.086	2003	42 368
5	boiler house, 20A, Bukova str.	AOHV -100	0.086	2003	42 368
		AOHV -100	0,086	2003	42 368
6	boiler house, 14, Bukova str.	AOHV -96к	0.086	2007	28 112
		AOHV -50к	0.043	2007	10 920
7	boiler house, 10Б, Sapena str.	KVH-7.56	6.5	1991	33 704
		KVH-7.56	6.5	1988	78 125
		KV-H -6.5-150	6.5	1988	76 492
8	boiler house, 27, Pomirky str.	NIISTU-5	0.5	1999	45 000
		NIISTU-5	0.5	1999	42 000
		NIISTU-5	0.5	2001	40 000
9	boiler house "Piatykhatky", 1, Akademichna str.	DKV-10/13	6.5	1958	110 770
		DKV-10/13	6.5	1957	173 376
		DKVP-20/13	14.0	1967	219 052
		PTVM-30M-4	35	1983	32 750
		PTVM-30M-4	35	1983	24 941

		DKV-10/13	8.6	1958	112 733
		DKV-10/13	8.6	1957	61 845
		PTVM-30M-4	35	1983	64 800
10	boiler house, YRC Internationalist, 70, Horianska str.	KV-H-7.56-150	6.5	1993	28 360
		KV-H-7.56-150	6.5	1993	95 160
11	boiler house "Pivnichnyi-1", 9A, Dzherelna str.	KVH-6.5-150	6.5	1994	129 264
		KVH-6.5-150	6.5	1994	129 264
		KVH-6.5-150	6,5	1994	90 720
12	boiler house, 104, Krasnodarska str.	Nika-0.5Hn	0.43	2005	18 144
		Nika-0.5Hn	0.43	2005	18 144
		NIISTU-5	0.4	2000	48 968
		KPa-0.4H	0.26	2011	5 280
		KPa-0.4H	0.26	2011	10 560
13	boiler house, 48, Konotopska str.	Altair RTN E-100	0.086	2007	16 576
		Altair RTN E-100	0.086	2007	23 450
14	boiler house, 7A, Konieva str.	KV-H-4.65-150	4.0	1999	82545
		KV-H-7.65-150	6.5	2001	56784
15	boiler house, 12, Konieva str.	NIISTU-5	0.25	1997	65 756
		NIISTU-5	0.25	1999	46 200
16	boiler house, 26, Kontorska str.	AOHV -100	0.086	1998	46 944
		AOHV -100	0.086	1998	45 344
17	boiler house, 6/10, Polzunova lane	NIISTU-5	0.3	1985	97 672
		NIISTU-5	0.3	1985	91 872
18	boiler house, 5A, Svynarenka str.	KBN-Hn3.15M	2.7	2007	20 720
		KBN-Hn-3.15M	2.7	2010	15 872
		KBN-Hn-3.15M	2.7	2011	9 204
		VK-21	1.72	2005	18 180
19	boiler house, 90, Novo-Bavarskyi ave.	NIISTU-5	0.25	1988	77 168
		NIISTU-5	0.25	2001	43 784

		RBI HBN-1470	0.308	2002	36 432
		RBI HBN-1050	0.219	2002	50 016
20	boiler house, 53, Lomonosova str.	Nadtochii	0.348	1965	214 032
21	boiler house, 23A, Svitlanivska str.	AOHV -100	0.086	2002	28 416
		AOHV -100	0.086	2002	24 432
		AOHV -100	0.086	2002	29 232
		AOHV -100	0.086	2013	737
		NIISTU-5	0.4	1998	28 288
22	boiler house, 8, Bulvarna str.	NIISTU-5	0.25	1988	113 568
23	boiler house, 88A, Seminaraska str.	NIISTU-5	0.3	1998	37 888
		NIISTU-5	0.3	1999	31 680
		NIISTU-5	0.3	1999	50 520
24	boiler house, 99A, Novo-Bavarskyi ave.	KBN-Hn-3.15M	2.7	2007	23 576
		KBN-Hn-3.15M	2.7	2010	11 072
		NYKA -1.25	1.075	2005	22 680
25	boiler house, 13, Marka Bernesa str.	NIISTU-5	0.25	1969	196 560
26	boiler house, 5, Metiznyi lane	NIISTU-5	0.5	1989	71 700
		NIISTU-5	0,5	1980	73 712
		NIISTU-5	0.5	1980	80 240
		NIISTU-5	0.5	1980	89 352
27	boiler house, 7A, St. Nova Bavariia str.	AOHV -100	0.086	1999	47 520
		AOHV -50	0.043	1999	44 520
28	boiler house, 2, Kontorska str.	WHN 1685 E-02	0.344	2003	34 848
		AOHV -100	0.086	2003	13 915
29	boiler house, 35, Zaliznychna str.	AOHV -100	0.086	1999	60 480
		AOHV -100	0.086	1999	52 400
		AOHV -100	0.086	1999	24 680
30	boiler house, 41/43, Andriivska str.	NIISTU-5	0.3	1987	106 640
		NIISTU-5	0.3	1989	74 000
31	boiler house, 8, Slovianska str.	KVH-7.56	6.5	1987	218 060

		KVH-7.56	6.5	1987	178 600
32	boiler house, 41, Novyi Pobut str.	Universal-6	0.24	1997	40 740
		Universal-6	0.24	1997	39 650
33	boiler house, 49/51, Rylieieva str.	Universal-6	0.24	1997	40 800
		Universal-6	0.24	1997	45 400
34	boiler house, 29, Velyka Panasivska str.	KBN-Hn – 3.15M	2.7	2002	85 900
		KBN-Hn – 3.15M	2.7	2002	51 600
35	boiler house, 67, Velyka Panasivska str.	Lankashyr	1.8	1996	73 440
		Lankashyr	0.18	1996	73 440
36	boiler house, 2/15, Blahovishchenska str.	Nadtochii	0.24	1972	177 120
37	boiler house, 6, Rizdviana str.	HBN 1050E-02	0.219	2003	34 800
		HBN 1050E-02	0.219	2000	53 600
38	boiler house, 12, Baltiiska str.	Nika-0.5Hn	0.42	1998	64 260
		Nika-0.5Hn	0.42	1998	60 490
39	boiler house, 3, Afanasivska str.	NIISTU-5	0.3	1986	116 640
		NIISTU-5	0.3	1986	100 880
40	boiler house, 205, Velyka Panasivska str.	KV-H-4.65	4.0	1984	130 600
		KV-H-4.65	4.0	1984	112 640
41	boiler house, 7, Ihoria Muratova str.	E-1.0-0.9H-3	0.612	1989	89 800
42	boiler house, 27/5, Berkosa str.	NIISTU-5	0.3	1957	241 920
43	boiler house, 41, Kurylivska str.	NIISTU-5	0.3	1987	112 320
44	boiler house, 65, Ozerianska str.	Universal-5M	0.182	1987	112 280
45	boiler house, 35, Novyi Pobut str.	NIISTU-5	0.3	1969	176 900
		NIISTU-5	0.3	1969	180 100
46	boiler house, 30, Hrektivska str.	NIISTU-5	0.3	2010	15 408
47	boiler house, 1, Biolohichniy lane	AOHV -50E	0.043	2012	2 892
		AOHV -100E	0.086	2013	1 416
		AOHV -50E	0.043	2006	17 928
48	boiler house, 19, Ternopilska str.	NIISTU-5	0.3	1998	69 272

		NIISTU-5	0.3	1998	25 790
49	boiler house, 1, Lymanskyi lane	NIISTU-5	0.4	1998	38 874
		NIISTU-5	0.4	1998	28 403
		NIISTU-5	0.3	1998	34 439
50	boiler house, 89A, Dostoievskoho str.	AOHV -100	0.086	2005	32 094
		AOHV -100	0.086	2005	23 404
51	boiler house, 16, Myrhorodska str.	Universal-3	0.25	1998	83 518
52	boiler house, 27A, Dyspetcherska str.	DKVR-6.5/13	4.0	2006	20 138
		DKVR-6.5/13	4.0	2006	0
		DKVR-6.5/13	4.0	2006	46 990
		DEV-10/14	6.5	1989	15 227
		DEV-10/14	6.5	1989	15 047
53	boiler house, 3, Dostoievskoho entrance	construction of the new heat source			
54	boiler house, 5/7, Karpivskyi lane	AOHV -96	0.083	2004	24 850
		AOHV -96	0.083	2004	23 810
		AOHV -96	0.083	2006	17 680
55	boiler house, 74A, Myru str.	TVH-4p	4.3	1969	184 417
		TVH-4p	4.3	1969	183 535
		KVH-4-150	4	1993	87 106
56	boiler house, 10/12, Blahovishchenska str.	NIISTU-5	0.565	1978	79 760
		NIISTU-5	0.565	1978	120 950
57	boiler house, 32, Seminarska str.	Nadtochii	0,24	1969	196 560
		PVKM-M5	0.306	1987	11 772
58	boiler house, 66, Naboichenka Petra str.	Universal-5	0.18	1987	71 904
		Universal-6	0.24	1997	66304

Annex 32. List of the pump units, installed at the sites on the component
“Reconstruction of boiler houses”.

№	Name of the object, address	Pump grade	Pump application	Efficiency, m ³ /h	Head, m	Electrical power, KW	Engine voltage, kV	Year of installation
1	boiler house, 7, Hryshchenka str.	K-65-50-160	booster	25	32	3	380	2000
		K-65-50-160	booster	25	32	3	380	2000
		K-100-65-200	network	100	50	45	380	1991
		K-100-65-200	network	100	50	45	380	1991
		K-50-32-125	salt	12.5	20	1.5	380	2013
		K-50-32-125	salt	12.5	20	1.2	380	2013
		K-100-65-200	network	100	50	55	380	1991
		K-65-50-160	booster	25	32	4.5	380	1991
		K-80-65-160	booster	50	32	7.5	380	1991
		SAER MG-80-200A	mixing	275	58	37	380	2010
		K-100-65-200	mixing	100	50	45	380	1991
2	boiler house, 82A, Kulynychivska str.	Speroni CS32-160A	network	30	36.5	4.3	380	2011
		K-65-50-160	network	25	32	5	380	1981
		K-80-50-200	network	50	50	7.5	380	1981
3	boiler house, 104, Krasnodarska str.	GRUNDFOS KP-150 A1	drain	7.8	5	0.3	380	2011
		GRUNDFOS CR 1-2	booster	2.4	12	0.37	380	2011
		GRUNDFOS CR 1-2	booster	2.4	12	0.37	380	2011
		K-80-65-160	network	50	32	7.5	380	2006
		K-80-65-160	network	50	32	7.5	380	2006
		EBARA LPS 50/75M	recirculating	24	14.8	0.75	380	2006
4	boiler house “Pivnichnyi-1”, 9A, Dzherelna str.	K-100-65-200	HWS	100	50	22	380	1994
		K-100-65-200	HWS	100	50	45	380	1994
		1D200-90	network	200	95	55	380	2000
		NKU-90	recirculating	90	38	13	380	1992
		1D200-90	network	200	95	110	380	1994

		KS-12-50	booster	12	50	7.5	380	2006
		1D 315-50	network	320	50	75	380	2006
		K-100-65-250	network	100	80	55	380	1994
5	boiler house, 12, Konieva str.	Wilo-TOP-S 50/15	network	36	16	1.6	380	2011
		TsNSh-65	network	26	6	2.8	380	2010
6	boiler house, 6/10, Polzunova lane	GRUNDFOS TP 50-190/2	circulating	28	19	1.5	380	2011
7	boiler house, 90, Novobavarskyi ave.	GRUNDFOS UPS 32-55	network	9.2	4.6	0.14	380	2005
		K-100-80-160	network	100	32	15	380	1999
		K-100-80-160	booster	100	32	15	380	1999
		GRUNDFOS Hydrojet JP5/24	booster	3	40	0.78	380	2005
		GRUNDFOS LP 80-120/124	network	50	15	3	380	2005
		K20/18	HWS	20	18	2.2	380	2008
		GRUNDFOS UPS 50-120 F	network	29.5	9.1	0.76	380	2005
		GRUNDFOS UPS 50-120 F	network	29.5	9.1	0.76	380	2005
8	boiler house, 53, Lomonosova str.	K-65-50-160	network	25	32	4,5	380	2012
		GRUNDFOS NB 40-125/105	circulating	39.1	9.3	1.5	380	2013
9	boiler house, 8, Bulvarna str.	K-65-50-160	network	25	32	4	380	2010
		Wilo-TOP-S 50/15	circulating	36	16	1.6	380	2014
10	boiler house, 88A, Seminarska str.	Wilo HWJ 203	booster	4.5	43	1.1	380	2007
		GRUNDFOS NB 125/144	network	80.2	22.1	7.5	380	2007
		K-80-65-160	network	50	32	4	380	1991
11	boiler house, 13, Marka Bernesa str.	K-50-32-125	network	12.5	20	4	380	2010
		Wilo-TOP-S 40/15	circulating	20	15	0.9	380	2013
12	boiler house, 5, Metiznyi lane	K-100-65-200	network	100	50	22	380	2004
		K-150-125-315	network	200	32	30	380	2004
13	boiler house, 7A, St. Nova Bavariia str.	Wilo-TOP-S 40/15	circulating	20	15	0.9	380	2013
		K-50-32-125	network	12.5	20	2.2	380	2005
14	boiler house, 35, Zaliznychna str.	K-65-50-160	circulating	25	32	1.5	380	1999
		K-65-50-160	circulating	25	32	1.5	380	1999
		K-65-50-160	booster	25	32	1,5	380	1999
		K-65-50-160	circulating	25	32	1.5	380	1999

15	boiler house, 41/43, Andriivska str.	K-80-65-160	network	50	32	7.5	380	1998
		K-80-65-160	network	50	32	7.5	380	1998
16	boiler house, 48, Konotopska str.	Wilo-TOP-S 50/15	network	36	16	1,6	380	2007 p.
		Wilo-TOP-S 50/15	network	36	16	1,6	380	2007 p.
17	boiler house, 7A, Konieva str.	K-80-50-200	network	50	50	11	380	1988 p.
		WILO COR - 1MHIE 403-2G	network	11	48	1,4	380	2014 p.
		K-65-50-160	booster	25	32	5,5	380	1999 p.
		K-65-50-160	booster	25	32	5,5	380	1988 p.
		K-65-50-160	HWS	25	32	4	380	1999 p.
		K-65-50-160	desalinization	25	32	5,5	380	1997 p.
		K-65-50-160	booster	25	32	5,5	380	2005 p.
		K-65-50-160	booster	25	32	5,5	380	2005 p.
		GRUNDFOS CR-3-10	booster	4,5	62	0,75	380	2009 p.
		EMEC PUMP EAPYM 36.5 FP	desalinization	1	1	0,1	380	2010 p.
		K-80-50-200	HWS	50	50	18,5	380	1994 p.
		1D315-71	network	320	70	90	380	2000 p.
		1D315-71	network	320	70	90	380	2000 p.
		NKU-90	network	90	38	22	380	1999 p.
		K-50-32-125	salt	12,5	20	2,2	380	2007 p.
K-80-65-160	booster	50	32	7,5	380	1988 p.		
18	boiler house, 26, Kontorska str.	Wilo-TOP-S 50/15	network	36	16	1,6	380	2011 p.
		K-80-65-160	network	50	32	5,5	380	1992 p.
19	boiler house, 2, Kontorska str.	GRUNDFOS Hydrojet JP5/24	booster	3	40	0,78	380	2005 p.
		GRUNDFOS UPS 40-50	circulating	9,2	1,6	0,14	380	2003 p.
		GRUNDFOS UPS 50-60/2F	circulating	26,5	5,7	0,39		2003 p.
		GRUNDFOS UPSD 40-180	network	22	12,5	0,79	380	2003 p.
		GRUNDFOS UPS 32-120	circulating	14	9,5	0,4	380	2003 p.
		GRUNDFOS UPS 50-120 F	circulating	29,5	9,1	0,76	380	2003 p.
20	boiler house, 5A, Svinarenka str.	EMEC PUMP EAPYM 36.5	booster	1	1	0,1	380	2010 p.
		K-80-65-160	HWS	50	32	18,5	380	1992 p.

		1D 315-50	network	320	50	55	380	1992 p.
		1D315-71	network	320	70	75	380	1992 p.
		K-50-32-125	booster	12,5	20	4	380	1999 p.
		K-80-65-160	HWS	50	32	7.5	380	1988
		K-100-80-160	recirculating	100	32	15	380	2006
		K-80-50-200	network	50	50	15	380	1988
21	boiler house, 23A, Svitlanivska str.	K-80-65-160	network	50	32	7.5	380	1999
		GRUNDFOS FHE 32-160/22	network	8	15	2.2	380	2011
22	boiler house, 99A, Novo-Bavarskyi ave.	K-65-50-160	booster	25	32	4	380	1999
		K-65-50-160	booster	25	32	4	380	1999
		K-80-50-200	cold water supply	50	50	30	380	1999
		K-80-50-200	cold water supply	50	50	30	380	1992
		K-200-150-315	network	315	32	40	380	1991
		K-200-150-315	network	315	32	40	380	1991
		GRUNDFOS DDE 6-10-P	dosator	0	10	0,12	220	2014
		1D 315-50	network	320	50	75	380	1998
		K-80-65-160	circulating	50	32	7.5	380	1992
		Wilo BL 50/150-7,5/2	network	84	31	7.5	380	2014
23	boiler house, 41, Novyi Pobut str.	CALPEDA NM 40/12AE	network	33	22.5	2.2	380	2009
		K-65-50-160	network	25	32	2.2	380	1997
24	boiler house, 49/51, Rylieieva str.	Wilo-TOP-S 40/7	network	16.5	7	0.39	380	2007
25	boiler house, 67, Velyka Panasivska str.	K-200-150-250	circulating	315	20	16	380	2011
		K-65-50-160	booster	25	32	4	380	1960
		K-200-150-250	circulating	315	20	30	380	1996
26	boiler house, 2/15, Blahovishchenska str.	TsNSh -65	network	25	28	1.5	380	1986
		K-50-32-125	network	12.5	20	2.8	380	2004
27	boiler house, 12, Baltiiska str.	K-80-65-160	network	50	32	5,5	380	1965
		K-50-32-125	booster	12.5	20	2.2	380	2001
		K-80-65-160	network	50	32	7.5	380	1965
28	boiler house, 3, Afanasivska str.	K-65-50-160	network	25	32	7.5	380	1985
		K-65-50-160	network	25	32	7.5	380	1995

29	boiler house, 205, Velyka Panasivska str.	K-65-50-160	booster	25	32	5.5	380	1988
		K-65-50-160	booster	25	32	5.5	380	1988
		KM-100-65-200	recirculating	100	50	30	380	1985
		K-100-65-200	network	100	50	18.5	380	1985
		K-100-65-200	network	100	50	18.5	380	1985
		K-100-65-200	network	100	50	18.5	380	1985
30	boiler house, 27/5, Berkosa str.	K-65-50-160	network	25	32	3	380	2000
		K-65-50-160	network	25	32	5	380	2000
		TsNSh -28	booster	28	32	5.5	380	1963
		Wilo-TOP-S 65/15	network	54	15	1.67		2013
31	boiler house, 41, Kurylivska str.	NHS 6/30	booster	6	30	1.1	380	2005
		K-50-32-125	network	12.5	20	1.7	380	2010
		K-50-32-125	network	12.5	20	1.7	380	2010
32	boiler house, 65, Ozerianska str.	K-50-32-125	network	12.5	20	1.7	380	2010
		K-50-32-125	network	12.5	20	1.7	380	2010
33	boiler house, 35, Novyi Pobut str.	Wilo-TOP-S 50/15	network	36	16	1.6	380	2013
		Wilo-TOP-S 50/15	network	36	16	1.6	380	2013
34	boiler house, 6, Rizdviana str.	GRUNDFOS UPS 50-120 F	circulating	29.5	9.1	0.76	380	2007
		GRUNDFOS UPS 50-180F	network	31.5	13	1	380	2007
		GRUNDFOS UPS 50-180F	network	31.5	13	1	380	2007
		GRUNDFOS UPS 50-60/2F	circulating	26.5	5.7	0.39		2007
		GRUNDFOS Hydrojet HJP-5	booster	3.5	40	0.78	380	2007
35	boiler house, 8, Slovianska str.	1D200-90	network	200	95	75	380	1999
		Kh 2/30	desalinization	2	30	4		2013
		1D 315-50	network	320	50	90	380	1997
		K-65-50-160	desalinization	25	32	5.5	380	1999
		K-65-50-160	desalinization	25	32	5.5	380	1999
		KS -12-50	booster	12	50	5.5	380	2007
		K-100-65-250	network	100	80	55	380	1999
		K-80-50-200	recirculating	50	50	7,5	380	1999
		TsHSH-38-66	HWS	38	66	2,2	380	1997

		K-65-50-160	CWT	25	32	4	380	1999
		K-65-50-160	CWT	25	32	4	380	1999
		VK 1/16A	desalinization	3,6	16	2.2	380	1997
		TsHSH-38-66	HWS	38	66	2.2	380	1997
		TsHSH-38-66	HWS	38	66	11	380	1997
		NKU-90	recirculating	90	38	37	380	1997
36	boiler house, 29, Velyka Panasivska str.	K-80-50-200	network	50	50	15	380	1999
		1D 315-50	network	320	50	55	380	1995
		1D 315-50	network	320	50	55	380	1995
		K-80-50-200	HWS	50	50	16	380	2009
		K-80-50-200	HWS	50	50	16	380	2005
		K-80-65-160	network	50	32	7.5	380	2005
		K-50-32-125	network	12.5	20	5.5	380	2001
		K-80-50-200	HWS	50	50	14	380	2009
		K-65-50-160	booster	25	32	7.5	380	1995
		K-65-50-160	booster	25	32	7.5	380	1995
		K-80-50-200	network	50	50	17	380	2001
37	boiler house, 7, Ihoria Muratova str.	K-65-50-160	condensate	25	32	2.2	380	1999
		K-65-50-160	desalinization	25	32	4	380	1997
		AN 2/16	booster	2	16	2.2	380	2013
38	boiler house, 30, Hrekivska str.	K-65-50-160	network	25	32	1,1	380	1988
		Wilo-TOP-S 40/4	network	14	4,5	0,2	380	2009
		K-65-50-160	network	25	32	4	380	1988
39	boiler house, 1, Biolohichni lane	GRUNDFOS Hydrojet HJP-5	booster	3.5	40	0.78	380	2003
		GRUNDFOS UPSD 50-80F	network	3	12.5	0.7	380	2003
40	boiler house, 19, Ternopilska str.	K-65-50-160	network	25	32	4,5	380	1996
		K-65-50-160	network	25	32	4	380	1999
		K-80-50-200	network	50	50	15	380	1989
		K-80-65-160	network	50	32	15	380	2006
41	boiler house, 1, Lymanskyi lane	K-100-80-160	network	100	32	15	380	1996
		K-65-50-160	network	25	32	5.5	380	1998

		K-50-32-125	booster	12.5	20	1.5	380	2007
		GRUNDFOS NB 40-125/124	network	52	22	5.5	380	2010
42	boiler house, 16, Myrhorodska str.	Wilo-TOP-S 30/10	HWS	11	11	0.4	380	2008
		K-65-50-160	network	25	32	4	380	1996
43	boiler house, 27A, Dyspetcherska str.	K-65-50-160	salt	25	32	5.5	380	2007
		ATsNSH-60/132	network	60	132	55	380	2002
		TsHSH -38-220	HWS	38	220	37	380	1996
		TsHSH -38-220	recirculating	38	220	37	380	2002
		K-80-65-160	booster	50	32	7.5	380	2002
		K-50-32-125	booster	12.5	20	3	380	2002
		K-65-50-160	HWS	25	32	4	380	2008
		K-50-32-125	booster	12.5	20	7.5	380	1997
		K-65-50-160	HWS	25	32	4	380	2002
		K-65-50-160	salt	25	32	4	380	2002
		K-50-32-125	network	12.5	20	4	380	2002
		1D315-71	network	320	70	75	380	2004
		1D 315-50	network	320	50	75	380	1997
		1D315-71	network	320	70	75	380	1997
		K-50-32-125	booster	12.5	20	5.5	380	2002
		K-80-65-160	network	50	32	5.5	380	1995
		K-80-65-160	network	50	32	5.5	380	1995
44	boiler house, 3, Dostoievskoho entrance	construction of the new heat source						
45	boiler house, 89A, Dostoievskoho str.	K-65-50-160	network	25	32	4	380	1984
		K-65-50-160	network	25	32	4	380	1984
		K-50-32-125	network	12.5	20	1.1	380	2005
		K-50-32-125	network	12.5	20	1.1	380	2005
46	boiler house, 20, Bukova str.	Wilo-TOP-S 30/10	network	11	11	0.4	380	2005
		Wilo-TOP-S 30/10	network	11	11	0.4	380	2005
47	boiler house, 20A, Bukova str.	Wilo-TOP-S 30/10	network	11	11	0.4	380	2005
		Wilo-TOP-S 30/10	network	11	11	0.4	380	2005

		Wilo-TOP-S 30/10	network	11	11	0.4	380	2005
48	boiler house, 14, Bukova str.	Wilo-TOP-S 30/10	network	11	11	0.4	380	2007
		Wilo-TOP-S 30/10	network	11	11	0.4	380	2007
49	boiler house, YRC Internationalist, 70, Horianska str.	K-80-50-200	HWS	50	50	15	380	2011
		K-100-65-250	HWS	100	80	37	380	2011
		1D200-90	circulating	200	95	90	380	2012
		K-100-65-200	network	100	50	37	380	2011
		K-80-50-200	booster	50	50	15	380	2011
		K-80-50-200	hot water supply	50	50	15	380	2011
		K-80-50-200	network	50	50	22	380	2011
		K-100-65-200	network	100	50	35	380	2011
50	boiler house "Piatykhatky", 1, Akademichna str.	K-100-65-200	booster	100	50	18.5	380	2008
		1D 315-50	network	320	50	75	380	2008
		1D 315-50	network	320	50	75	380	2008
		1D 315-50	network	320	50	75	380	2008
		KSM -30-150	booster	30	150	30	380	2008
		KSM -30-150	booster	30	150	30	380	2008
		GRUNDFOS DDE 6-10B-PP/E/C-X-31/001FG	chemical water treatment	0		0.1	380	2012
		KS -32-175	delivery	30	175	22	380	2008
		PN 1,6/16Б	delivery	1.6	16	2.2	380	2008
		PN 1,6/16Б	delivery	1.6	16	2.2	380	2008
		K-80-65-160	booster	50	32	7	380	2008
		K-80-65-160	suction	50	32	7	380	2008
		Kh45-31ESD	suction	45	30	11	380	2008
		Kh45-31ESD	suction	45	30	11	380	2008
		K-100-65-200	booster	100	50	37	380	2008
		SЭ 800-100	network	800	100	6,3	380	2008
		SЭ 800-100	network	800	100	320	380	2008
SЭ 800-100	network	800	100	320	380	2008		
SЭ 800-100	network	800	100	320	380	2008		

		SØ 800-100	network	800	100	320	380	2008
		SØ 800-100	network	800	100	320	380	2008
		K-80-65-160	booster	50	32	7	380	2008
		K-100-80-125	CWS	100	20	6.3	380	2008
		K-100-80-125	CWS	100	20	7.5	380	2008
		GRUNDFOS TP 40-470/2	backing	32	46	5.5	380	2012
		GRUNDFOS TP 40-470/2	backing	32	46	5.5	380	2012
		GRUNDFOS CR 5-6	booster	8.5	37	1.1	380	2012
		GRUNDFOS CR 5-6	booster	8.5	37	1,1	380	2012
51	boiler house, 10Б, Saperna str.	K-100-65-250	HWS	100	80	45	380	1988
		K-100-65-250	HWS	100	80	45	380	1988
		K-50-32-125	chemical water treatment	12.5	20	5.5	380	2001
		KS-12-50	booster	12	50	5.5	380	1988
		TNP -0,61	HWS	8	18	4	380	2000
		KS-12-50	booster	12	50	5.5	380	1999
		K-50-32-125	salt	12.5	20	4	380	2007
		1D315-71	network	320	70	90	380	2001
		1D315-71	network	320	70	90	380	2001
		K-100-65-250	network	100	80	55	380	1988
		K-65-50-160	network	25	32	7.5	380	1988
		K-65-50-160	network	25	32	7.5	380	1988
52	boiler house, 27, Pomirky str.	K-80-50-200	network	50	50	15	380	2006
		K-65-50-160	network	25	32	5.5	380	2006
		KM-80-50-200	recirculating	50	50	15	380	2000
		K-65-50-160	booster	25	32	4	380	2006
		K-65-50-160	network	25	32	4	380	1994
53	boiler house "Aeroport", 9, Nesterova str.	K150/20	circulating	150	20	30	380	1998
		K-80-65-160	recirculating	50	32	7.5	380	1997
		K-150-125-250	circulating	200	20	15	380	1998
		K-150-125-250	circulating	200	20	15	380	2004

		K80/165	booster	25	32	7.5	380	1996
		1D 315-50	network	320	50	75	380	1996
		1D 315-50	network	320	50	75	380	1996
		1D 315-50	network	320	50	75	380	1996
		K-65-50-160	booster	25	32	5.5	380	1996
		K-80-65-160	recirculating	50	32	5.5	380	1997
		K-65-50-160	CWS	25	32	4	380	1996
		K-65-50-160	CWS	25	32	4	380	1981
		Wilo Top-Z 30/10	circulating	9.5	9.5	0.3	380	2011
		Wilo MHI 1604-1/E/3-400-50	HWS	26	48	2.5	380	2011
		Wilo MHI 1604-1/E/3-400-50	HWS	26	48	2.5	380	2011
		Wilo-TOP-S 40/7	recirculating	16.5	7	0.39	380	2011
		Wilo-TOP-S 40/7	recirculating	16.5	7	0.39	380	2011
		Wilo IL 50/200-1,5/4	HWS	44	13.5	1.5	380	2011
		Wilo IL 50/200-1,5/4	HWS	44	13.5	1.5	380	2011
54	boiler house, 5/7, Karpivskyi lane	Wilo-TOP-S 65/15	network	54	15	1.67	380	2005
		Wilo-TOP-S 65/15	network	54	15	1.67	380	2005
55	boiler house, 66, Petra Naboichenka str.	K-50-32-125	network	12.5	20	2.2	380	1999
		K-50-32-125	network	12.5	20	2.2	380	1999
		Wilo HWJ 203	booster	4.5	43	1.1	380	2007
56	boiler house, 74A, Myru str.	K-65-50-160	ejector	25	32	4.5	380	1985
		K-80-50-200	CWS	50	50	15	380	1967
		K-80-65-160	CWS	50	32	7.5	380	1967
		K-100-65-250	network	100	80	55	380	1969
		K-100-65-250	network	100	80	55	380	1969
		K-80-65-160	recirculating	50	32	4.5	380	1989
		NKU -90	recirculating	90	38	22	380	1967
		K-65-50-160	booster	25	32	4.5	380	1985
		K-65-50-160	booster	25	32	4.5	380	1985
		Wilo IL 80/200-22/2	HWS	170	60	22	380	2014
		Wilo IL 80/200-22/2	HWS	170	60	22	380	2014

		K-65-50-160	ejector	25	32	4,5	380	1985
		K-80-50-200	CWS	50	50	15	380	1967
		K-80-65-160	CWS	50	32	7.5	380	1967
57	boiler house, 32, Seminarska str.	K-65-50-160	network	25	32	2.8	380	1987
		K-65-50-160	network	25	32	2.2	380	1987
58	boiler house, 10/12, Blahovishchenska str.	K-65-50-160	network	25	32	7.5	380	2008
		K-65-50-160	network	25	32	5.5	380	1997
		K-50-32-125	drain	12.5	20	4	380	1976

Annex 33. List of heat-exchange equipment, which will be replaced at the boiler houses by the new one on the component "Reconstruction of boiler houses".

№	Name of object, address	Type, construction of heat exchanger	Application	Surface of heating, m ²	Number of plates, pcs.	Year of installation
1	boiler house, 7, Hryshchenka str.	Shell-and-tube exchanger OST 34-558-68	HWS	3.4	-	1991
2	boiler house, 104, Krasnodarska str.	Capacitance heat exchanger «Енергія»	HWS	8.1	-	1977
		Capacitance heat exchanger «Енергія»	HWS	3.73	-	1977
3	boiler house "Pivnichnyi-1", 9A, Dzherelna str.	Plate heat exchanger R0.5	HWS	25	50	1994
		Plate heat exchanger RS 0.5p	HWS	50	100	1992
4	boiler house, 90, Novo- Bavarskyi ave.	Plate heat exchanger AlfaLaval M3-FG	HWS	0.99	33	2005
		Plate heat exchanger AlfaLaval M3-FG	HWS	0.99	33	2005
5	boiler house, 7A, Konieva str.	Shell-and-tube exchanger PV -12-06	production needs	2.24	-	1985
		Plate heat exchanger DANFOSS XG 50	HWS	27	30	2007
6	boiler house, 2, Kontorska str.	Plate heat exchanger SV -14-20	production needs	0.3		2003
7	boiler house, 5A, Svinarenka str.	Plate heat exchanger DAN FP -70	HWS	32.85	47	2009
8	boiler house, 99A, Novo- Bavarskyi ave.	Plate heat exchanger DAN FP -31	HWS	6.9		2009
9	boiler house, 8, Slovianska str.	Shell-and-tube exchanger PV -37-09	HWS	3.4	-	1999
		Shell-and-tube exchanger PV -37-09	HWS	3.4	-	1999
		Shell-and-tube exchanger PV	heating	3.3	-	1999
		Shell-and-tube exchanger PV	heating	3.3	-	1999
10	boiler house, 29, Velyka Panasivska str.	Plate heat exchanger N -0.1	HWS	4.8		2002
		Plate heat exchanger N -0.1	HWS	4.8		2002
		Plate DANFOSS XB-50-1	HWS	6.86	70	2007
11	boiler house, 7, Ihoria Muratova str.	Capacitance heat exchanger	HWS	1.9	-	1994
		Capacitance heat exchanger	HWS	1.9	-	1994

12	boiler house, 19, Ternopil'ska str.	Plate heat exchanger R 0.3	HWS	14.7	49	1994
13	boiler house, 1, Lymanskyi lane	Plate heat exchanger R 0.3 p	HWS	12		2009
14	boiler house, 16, Myrhorodska str.	Plate heat exchanger DANFOSS XD-10	HWS	2.7	60	2008
15	boiler house, 27A, Dyspetcherska str.	Plate heat exchanger R 0.3 p	HWS	13.8	46	2000
		Plate heat exchanger R 0.3 p	HWS	4.84	16	2000
		Plate heat exchanger DAN FP -31	HWS	21	42	2010
16	boiler house, YRC, Internationalist, 70, Horianska str.	Plate heat exchanger RS 0.5p	HWS	54	108	2011
		Plate heat exchanger RS 0.5p	HWS	41	82	2011
17	boiler house "Piatykhatty", 1, Akademichna str.	Plate heat exchanger PNH-100	heating	100	344	1995
		Plate heat exchanger PNH-100	heating	100	344	1995
		Plate heat exchanger PNH-100	heating	100	344	1995
		Plate heat exchanger PNH-100	heating	100	344	1995
		Plate heat exchanger	production needs	8.4	86	1995
		Plate heat exchanger	heating	40.4	436	1995
		Plate heat exchanger DAN FP -22	HWS	3.99	21	2012
		Plate heat exchanger	heating	40.4		1995
		Plate heat exchanger	heating	40.4		1995
		Plate heat exchanger	heating	40.4		1995
		Plate heat exchanger	production needs	40.4		1995
18	boiler house, 106, Saperna str.	Plate heat exchanger R O.6p	heating	31.5	56	1996
		Shell-and-tube exchanger OST34-588-68	production needs	6.66	-	1988
		Plate heat exchanger R O.6p	HWS	28.8	96	2006
19	boiler house, 27, Pomirky str.	Plate heat exchanger N 0.1	HWS	2.5	25	1999
		Shell-and-tube exchanger OST-34-558-68	HWS	6.78	-	1999
20	boiler house "Aeroport", 9, Nesterova str.	Plate heat exchanger N 0,1	HWS	5	52	1997
		Plate heat exchanger RS-05	heating	98		1989

		Plate heat exchanger RS-06	heating	96		1998
		Plate heat exchanger RS 0.5p	heating	100	200	1999
		Plate heat exchanger DAN FP -22	HWS	7.77	39	2011
21	boiler house, 32, Seminarska str.	Shell-and-tube exchanger PV -109-13	HWS	10	-	1969
		Shell-and-tube exchanger PV -109-14	HWS	10	-	1969
22	boiler house, 74A, Myru str.	Shell-and-tube exchanger PV -89	production needs	0.93	10	1969
		Plate heat exchanger DAN FP -60	HWS	46.2	79	2014
		Plate heat exchanger DAN FP -60	HWS	46.2	79	2014
		Plate heat exchanger DAN FP -40	HWS	37.2	95	2014
		Plate heat exchanger DAN FP -40	HWS	37.2	95	2014

Annex 34. List of IHP on the component “IHP installation in the residential buildings”.

ID No.	The address of individual heat station, number of heat station (entryway)	Administrative District of Kharkiv	New/current
1	65-A Frantisheka Krala Street	Industrialnyi	current
2	71 Frantisheka Krala Street	Industrialnyi	current
3	69 Frantisheka Krala Street	Industrialnyi	current
4	65 Frantisheka Krala Street	Industrialnyi	current
5	63 Frantisheka Krala Street	Industrialnyi	current
6	57 Frantisheka Krala Street	Industrialnyi	current
7	55 Frantisheka Krala Street	Industrialnyi	current
8	45 Frantisheka Krala Street	Industrialnyi	current
9	33-A Frantisheka Krala Street	Industrialnyi	current
10	154-A Oleksandrivskiy Avenue	Industrialnyi	current
11	15/16 Arkhitekora Aloshyna Avenue	Industrialnyi	current
12	13/11 Arkhitekora Aloshyna Avenue	Industrialnyi	current
13	6 Lui Pastera Street	Industrialnyi	current
14	14 Henerala Momota Street	Industrialnyi	current
15	10/10 Henerala Momota Street	Industrialnyi	current
16	15 Severyna Pototskoho Street	Industrialnyi	current
17	36 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
18	34-A Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
19	34 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
20	32 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
21	30 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
22	26 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
23	24 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
24	22 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
25	20 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
26	10/46 Dvanadtsiatoho Kvitnia Street	Industrialnyi	current
27	25 Arkhitekora Aloshyna Avenue	Industrialnyi	current
28	23 Arkhitekora Aloshyna Avenue	Industrialnyi	current
29	21/138 Arkhitekora Aloshyna Avenue	Industrialnyi	current
30	115 Oleksandrivskiy Avenue	Industrialnyi	current
31	111 Oleksandrivskiy Avenue	Industrialnyi	current
32	81 Oleksandrivskiy Avenue	Industrialnyi	current
33	79 Oleksandrivskiy Avenue	Industrialnyi	current
34	77 Oleksandrivskiy Avenue	Industrialnyi	current
35	184 Oleksandrivskiy Avenue	Industrialnyi	current
36	182 Oleksandrivskiy Avenue	Industrialnyi	current
37	178 Oleksandrivskiy Avenue	Industrialnyi	current
38	176 Oleksandrivskiy Avenue	Industrialnyi	current
39	170 Oleksandrivskiy Avenue	Industrialnyi	current
40	168 Oleksandrivskiy Avenue	Industrialnyi	current
41	166 Oleksandrivskiy Avenue	Industrialnyi	current
42	164 Oleksandrivskiy Avenue	Industrialnyi	current
43	160/32 Oleksandrivskiy Avenue	Industrialnyi	current
44	158 Oleksandrivskiy Avenue	Industrialnyi	current
45	156 Oleksandrivskiy Avenue	Industrialnyi	current
46	154 Oleksandrivskiy Avenue	Industrialnyi	current

47	148 Oleksandrivskiy Avenue	Industrialnyi	current
48	142 Oleksandrivskiy Avenue	Industrialnyi	current
49	140 Oleksandrivskiy Avenue	Industrialnyi	current
50	113 Oleksandrivskiy Avenue	Industrialnyi	current
51	103/41 Oleksandrivskiy Avenue	Industrialnyi	current
52	146 Oleksandrivskiy Avenue	Industrialnyi	current
53	38 Kosarieva Street	Industrialnyi	current
54	8 Kosarieva Street	Industrialnyi	current
55	44 Kosarieva Street	Industrialnyi	current
56	4 Kosarieva Street	Industrialnyi	current
57	2 Kosarieva Street	Industrialnyi	current
58	39 Arkhitekтора Aloshyna Avenue	Industrialnyi	current
59	37 Arkhitekтора Aloshyna Avenue	Industrialnyi	current
60	40 Kosarieva Street	Industrialnyi	current
61	46 Kosarieva Street	Industrialnyi	current
62	48 Kosarieva Street	Industrialnyi	current
63	37-A Frantishka Krala Street	Industrialnyi	current
64	41 Frantishka Krala Street	Industrialnyi	current
65	43 Frantishka Krala Street	Industrialnyi	current
66	33 Arkhitekтора Aloshyna Avenue	Industrialnyi	current
67	31 Arkhitekтора Aloshyna Avenue	Industrialnyi	current
68	29 Arkhitekтора Aloshyna Avenue	Industrialnyi	current
69	65/51 Industrialnyi Avenue	Industrialnyi	current
70	63 Industrialnyi Avenue	Industrialnyi	current
71	61 Industrialnyi Avenue	Industrialnyi	current
72	59-A Industrialnyi Avenue	Industrialnyi	current
73	59 Industrialnyi Avenue	Industrialnyi	current
74	57 Industrialnyi Avenue	Industrialnyi	current
75	55-A Industrialnyi Avenue	Industrialnyi	current
76	55 Industrialnyi Avenue	Industrialnyi	current
77	54/47 Industrialnyi Avenue	Industrialnyi	current
78	53 Industrialnyi Avenue	Industrialnyi	current
79	52 Industrialnyi Avenue	Industrialnyi	current
80	51-A Industrialnyi Avenue	Industrialnyi	current
81	51 Industrialnyi Avenue	Industrialnyi	current
82	50 Industrialnyi Avenue	Industrialnyi	current
83	49 Industrialnyi Avenue	Industrialnyi	current
84	47 Industrialnyi Avenue	Industrialnyi	current
85	46 Industrialnyi Avenue	Industrialnyi	current
86	45 Industrialnyi Avenue	Industrialnyi	current
87	44 Industrialnyi Avenue	Industrialnyi	current
88	43 Industrialnyi Avenue	Industrialnyi	current
89	42 Industrialnyi Avenue	Industrialnyi	current
90	37/36 Industrialnyi Avenue	Industrialnyi	current
91	36 Industrialnyi Avenue	Industrialnyi	current
92	34 Industrialnyi Avenue	Industrialnyi	current
93	24-A Kosmichna Street	Shevchenkivskiy	current
94	4 Hrabovskoho Lane	Shevchenkivskiy	current
95	82 Ochakivska Street	Shevchenkivskiy	current
96	16-A Otakara Yarosha Street	Shevchenkivskiy	current

97	11-A Otakara Yarosha Street	Shevchenkivskiyi	current
98	5 Otakara Yarosha Street	Shevchenkivskiyi	current
99	3/5 Shatylyvska Street	Shevchenkivskiyi	current
100	1 Shatylyvska Street	Shevchenkivskiyi	current
101	16-A Kultury Street	Shevchenkivskiyi	current
102	15 Kultury Street	Shevchenkivskiyi	current
103	10-A Kultury Street	Shevchenkivskiyi	current
104	27 Kolomenska Street	Shevchenkivskiyi	current
105	25 Kolomenska Street	Shevchenkivskiyi	current
106	276-B Klochkivska Street	Shevchenkivskiyi	current
107	274 Klochkivska Street	Shevchenkivskiyi	current
108	244 Klochkivska Street	Shevchenkivskiyi	current
109	46 Peremohy Avenue	Shevchenkivskiyi	current
110	45-A Nauky Avenue	Shevchenkivskiyi	current
111	41/43 Nauky Avenue	Shevchenkivskiyi	current
112	32 Nauky Avenue	Shevchenkivskiyi	current
113	24 Nauky Avenue	Shevchenkivskiyi	current
114	18/9 Nauky Avenue	Shevchenkivskiyi	current
115	12 Nauky Avenue	Shevchenkivskiyi	current
116	11 Nauky Avenue	Shevchenkivskiyi	current
117	5 Pavlivskiyi Square	Shevchenkivskiyi	current
118	3-E Liudmyly Hurchenko Lane	Shevchenkivskiyi	current
119	11 Otakara Yarosha Lane	Shevchenkivskiyi	current
120	6 Otakara Yarosha Lane	Shevchenkivskiyi	current
121	4/6 Kravtsova Lane	Shevchenkivskiyi	current
122	1 Derevianka Street	Shevchenkivskiyi	current
123	27 Danylevskoho Street	Shevchenkivskiyi	current
124	3 Bakulina Street	Shevchenkivskiyi	current
125	14-A Oleksiivska Street	Shevchenkivskiyi	current
126	7 Akademyka Liapunova Street	Shevchenkivskiyi	current
127	5 Nezalezhnosti Avenue	Shevchenkivskiyi	current
128	7 Chychybabina Street	Shevchenkivskiyi	current
129	2/2 Konstytutsii Square	Osnovianskyi	current
130	18 Himnaziina Quay, IHS No.1 (entrances No.1-No.4)	Osnovianskyi	current
131	18 Himnaziina Quay, IHS No.2 (entrances No.5-No.8)	Osnovianskyi	current
132	11/13 Nikitina Street	Osnovianskyi	current
133	64-A Moskovskiyi Avenue	Osnovianskyi	current
134	12 Shota Rustaveli Street	Osnovianskyi	current
135	14 Shota Rustaveli Street	Osnovianskyi	current
136	13 Bohdana Khmelnytskoho Street	Osnovianskyi	current
137	1 Kostiurynskyi Lane	Osnovianskyi	current
138	1 Zakhysnykiv Ukrainy Square, IHS No.1 (entrances No.1-No.5)	Osnovianskyi	current
139	1 Zakhysnykiv Ukrainy Square, IHS No.2 (entrances No.6-No.13)	Osnovianskyi	current
140	90 Moskovskiyi Avenue	Osnovianskyi	current
141	90-A Moskovskiyi Avenue	Osnovianskyi	current
142	1/3 Virmenskyi Lane	Osnovianskyi	current

143	4 Himnaziina Quay	Osnovianskyi	current
144	13/2 Kooperatyvna Street	Osnovianskyi	current
145	42/1 Shota Rustaveli Street	Osnovianskyi	current
146	170 K-1 Haharina Avenue	Osnovianskyi	new
147	174 K-7 Haharina Avenue	Osnovianskyi	new
148	56 Hroznenska Street	Osnovianskyi	new
149	56-A Hroznenska Street	Osnovianskyi	new
150	53-A Makiivska Street	Osnovianskyi	new
151	58 Hroznenska Street	Osnovianskyi	new
152	56 Hroznenska Street	Osnovianskyi	new
153	5 Moskalivska Street	Osnovianskyi	new
154	7 Moskalivska Street	Osnovianskyi	new
155	7-V Moskalivska Street	Osnovianskyi	new
156	9 Moskalivska Street	Osnovianskyi	new
157	29 Voskresenska Street	Osnovianskyi	new
158	31 Voskresenska Street	Osnovianskyi	new
159	8 Netichenska Quay	Osnovianskyi	new
160	7 Butivskyi Entry	Kyivskyi	current
161	5 Teatralnyi Lane	Kyivskyi	current
162	17 Moskovskyi Avenue	Kyivskyi	current
163	19/23 Moskovskyi Avenue	Kyivskyi	current
164	5 Alchevskykh Street	Kyivskyi	current
165	17 Alchevskykh Street	Kyivskyi	current
166	9 Vorobiova Street	Kyivskyi	current
167	3 Harshyna Street	Kyivskyi	current
168	19 Hirshmana Street	Kyivskyi	current
169	2-A Hoholia Street	Kyivskyi	current
170	24 Svobody Street	Kyivskyi	current
171	11/13 Svobody Street	Kyivskyi	current
172	5 Mystetstv Street	Kyivskyi	current
173	6 Mystetstv Street	Kyivskyi	current
174	20 Lermontovska Street	Kyivskyi	current
175	28 Lermontovska Street	Kyivskyi	current
176	88 Myronosytska Street	Kyivskyi	current
177	17 Maksymilianivska Street	Kyivskyi	current
178	18 Maksymilianivska Street	Kyivskyi	current
179	7 Yaroslava Mudroho Street	Kyivskyi	current
180	1 Potebni Street	Kyivskyi	current
181	3/5 Potebni Street	Kyivskyi	current
182	3 Pushkinska Street	Kyivskyi	current
183	32 Pushkinska Street	Kyivskyi	current
184	96 Pushkinska Street	Kyivskyi	current
185	5/2 Studentska Street	Kyivskyi	current
186	68 Sumska Street	Kyivskyi	current
187	15 Chaikovska Street	Kyivskyi	current
188	23 Chaikovska Street	Kyivskyi	current
189	33-B Chaikovska Street	Kyivskyi	current
190	82 Chernyshevska Street	Kyivskyi	current
191	85 Chernyshevska Street	Kyivskyi	current
192	9 Kharkivska Quay	Kyivskyi	current

193	21 Akademika Kurchatova Avenue	Kyivskyyi	current
194	5 Akademika Valtera Street	Kyivskyyi	current
195	7 Akademika Valtera Street	Kyivskyyi	current
196	19A Akademika Valtera Street	Kyivskyyi	current
197	2/58 Akademika Pidhornoho Lane	Nemyshlianskyi	current
198	4 Akademika Pidhornoho Lane	Nemyshlianskyi	current
199	5 Akademika Pidhornoho Lane	Nemyshlianskyi	current
200	6 Akademika Pidhornoho Lane	Nemyshlianskyi	current
201	7/59 Akademika Pidhornoho Lane	Nemyshlianskyi	current
202	3-A Komunalnyi Passage	Nemyshlianskyi	current
203	38 Lva Landau Avenue	Nemyshlianskyi	current
204	9/11 Komunalnyi Passage	Nemyshlianskyi	current
205	44 Lva Landau Avenue	Nemyshlianskyi	current
206	56/3 Lva Landau Avenue	Nemyshlianskyi	current
207	58/2 Lva Landau Avenue	Nemyshlianskyi	current
208	55 Oleksandrivskyyi Avenue	Nemyshlianskyi	current
209	18/63 Pozharskoho Street	Nemyshlianskyi	current
210	19/46 Akademika Filippova Street	Nemyshlianskyi	current
211	56 Akademika Filippova Street	Nemyshlianskyi	current
212	62 Akademika Filippova Street	Nemyshlianskyi	current
213	11/54 Bahrationa Street	Nemyshlianskyi	current
214	17/53 Bahrationa Street	Nemyshlianskyi	current
215	12/64 Pozharskoho Street	Nemyshlianskyi	current
216	16 Pozharskoho Street	Nemyshlianskyi	current
217	191 Moskovskyyi Avenue, IHS No.2 (entrances No.9-No.17)	Moskovskyyi	current
218	191 Moskovskyyi Avenue, IHS No.1 (entrances No.1-No.8)	Moskovskyyi	current
219	89 Moskovskyyi Avenue	Moskovskyyi	current
220	85 Moskovskyyi Avenue	Moskovskyyi	current
221	1-A Feiierbakha Street	Moskovskyyi	current
222	10-A Chyhyryna Street	Moskovskyyi	current
223	37/39 Somivska Street	Moskovskyyi	current
224	8 Serhiiivska Street	Moskovskyyi	current
225	12 Metalista Street	Moskovskyyi	current
226	50/29 Hvardiitsiv Shyronintsiv Street	Moskovskyyi	current
227	1-B Hvardiitsiv Shyronintsiv Street	Moskovskyyi	current
228	2 Mykhailyka Street	Moskovskyyi	current
229	37 Marshala Batytskoho Street	Moskovskyyi	current
230	20/3 Marshala Batytskoho Street	Moskovskyyi	current
231	10 Marshala Batytskoho Street	Moskovskyyi	current
232	27-A Adyheiska Street	Moskovskyyi	current
233	6 Enerhetychna Street	Slobidskyi	current
234	2 Enerhetychna Street	Slobidskyi	current
235	5 Chornomorska Street	Slobidskyi	current
236	1 Chornomorska Street	Slobidskyi	current
237	134 Niutona Street	Slobidskyi	current
238	13-A Morozova Street	Slobidskyi	current
239	2 Morozova Street	Slobidskyi	current
240	9-A Kyrhyzka Street	Slobidskyi	current

241	6-B Kyrhyzka Street	Slobidskyi	current
242	5A Kyrhyzka Street	Slobidskyi	current
243	16 Dyzelna Street	Slobidskyi	current
244	1-B Dyzelna Street	Slobidskyi	current
245	1 Dyzelna Street	Slobidskyi	current
246	18 Dyzelna Street	Slobidskyi	current
247	102/112 Moskovskyi Avenue	Slobidskyi	current
248	21-A Heroiv Stalinhrada Avenue	Slobidskyi	current
249	96 Moskovskyi Avenue	Slobidskyi	current
250	96-A Moskovskyi Avenue	Slobidskyi	current

Annex 35. List of resident houses on the component “Installation of the heat meters and other mechanical and electrical equipment in the heat supply stations of the residential houses”

ID No.	Postal Address of Facility	Administrative District of Kharkiv
1	12 Zhasminovyi Boulevard No.1	Slobidskyi
2	12 Zhasminovyi Boulevard No.2	Slobidskyi
3	12 Zhasminovyi Boulevard No.3	Slobidskyi
4	26 Tankopiia Street	Slobidskyi
5	10 Zhasminovyi Boulevard	Slobidskyi
6	1 Zhasminovyi Boulevard	Slobidskyi
7	11 Zhasminovyi Boulevard No.1	Slobidskyi
8	11 Zhasminovyi Boulevard No.2	Slobidskyi
9	11 Zhasminovyi Boulevard No.3	Slobidskyi
10	13 Zhasminovyi Boulevard	Slobidskyi
11	13/1 Zhasminovyi Boulevard	Slobidskyi
12	3 Zhasminovyi Boulevard No.1	Slobidskyi
13	3 Zhasminovyi Boulevard No.2	Slobidskyi
14	3 Zhasminovyi Boulevard No.3	Slobidskyi
15	5 Zhasminovyi Boulevard	Slobidskyi
16	7 Zhasminovyi Boulevard No.1	Slobidskyi
17	7 Zhasminovyi Boulevard No.2	Slobidskyi
18	7 Zhasminovyi Boulevard No.3	Slobidskyi
19	9 Zhasminovyi Boulevard	Slobidskyi
20	16 Tankopiia Street No.1	Slobidskyi
21	16 Tankopiia Street No.2	Slobidskyi
22	18 Tankopiia Street	Slobidskyi
23	18A Tankopiia Street	Slobidskyi
24	20 Tankopiia Street No.1	Slobidskyi
25	20 Tankopiia Street No.2	Slobidskyi
26	22B Tankopiia Street	Slobidskyi
27	2 Zhasminovyi Boulevard	Slobidskyi
28	4 Zhasminovyi Boulevard No.1	Slobidskyi
29	4 Zhasminovyi Boulevard No.2	Slobidskyi
30	6 Zhasminovyi Boulevard No.1	Slobidskyi
31	6 Zhasminovyi Boulevard No.2	Slobidskyi
32	12 Kyrhyzka Street	Slobidskyi
33	23 Heroiv Stalinhrada Avenue No.1	Slobidskyi
34	23 Heroiv Stalinhrada Avenue No.2	Slobidskyi
35	23 Heroiv Stalinhrada Avenue No.3	Slobidskyi
36	23 Heroiv Stalinhrada Avenue No.4	Slobidskyi
37	23 Heroiv Stalinhrada Avenue No.5	Slobidskyi
38	25 Heroiv Stalinhrada Avenue No.1	Slobidskyi
39	25 Heroiv Stalinhrada Avenue No.2	Slobidskyi
40	25 Heroiv Stalinhrada Avenue No.3	Slobidskyi
41	25 Heroiv Stalinhrada Avenue No.4	Slobidskyi
42	25 K1 Heroiv Stalinhrada Avenue No.1	Slobidskyi
43	25 K1 Heroiv Stalinhrada Avenue No.2	Slobidskyi
44	25 K1 Heroiv Stalinhrada Avenue No.3	Slobidskyi
45	25 K1 Heroiv Stalinhrada Avenue No.4	Slobidskyi
46	39 Heroiv Stalinhrada Avenue No.1	Slobidskyi

47	39 Heroiv Stalinhrada Avenue No.2	Slobidskyi
48	41 Heroiv Stalinhrada Avenue No.1	Slobidskyi
49	41 Heroiv Stalinhrada Avenue No.2	Slobidskyi
50	41 Heroiv Stalinhrada Avenue No.3	Slobidskyi
51	41 Heroiv Stalinhrada Avenue No.4	Slobidskyi
52	17 Kostycheva Street No.1	Slobidskyi
53	17 Kostycheva Street No.2	Slobidskyi
54	17 Kostycheva Street No.3	Slobidskyi
55	19 Kostycheva Street No.1	Slobidskyi
56	19 Kostycheva Street No.2	Slobidskyi
57	19 Kostycheva Street No.3	Slobidskyi
58	12A Moniushka Street No.1	Slobidskyi
59	12A Moniushka Street No.2	Slobidskyi
60	12A Moniushka Street No.3	Slobidskyi
61	14 Moniushka Street No.1	Slobidskyi
62	14 Moniushka Street No.2	Slobidskyi
63	14 Moniushka Street No.3	Slobidskyi
64	14 Moniushka Street No.4	Slobidskyi
65	16 Moniushka Street No.1	Slobidskyi
66	16 Moniushka Street No.2	Slobidskyi
67	16 Moniushka Street No.3	Slobidskyi
68	10 Tankopiia Street No.1	Slobidskyi
69	10 Tankopiia Street No.2	Slobidskyi
70	12 Tankopiia Street No.1	Slobidskyi
71	12 Tankopiia Street No.2	Slobidskyi
72	12 Tankopiia Street No.3	Slobidskyi
73	12 Tankopiia Street No.4	Slobidskyi
74	12 Tankopiia Street No.5	Slobidskyi
75	12 Tankopiia Street No.6	Slobidskyi
76	12 Tankopiia Street No.7	Slobidskyi
77	12A Tankopiia Street No.1	Slobidskyi
78	12A Tankopiia Street No.2	Slobidskyi
79	14A Tankopiia Street No.1	Slobidskyi
80	14A Tankopiia Street No.2	Slobidskyi
81	6A Tankopiia Street	Slobidskyi
82	8 Tankopiia Street No.1	Slobidskyi
83	8 Tankopiia Street No.2	Slobidskyi
84	8 Tankopiia Street No.3	Slobidskyi
85	8 Tankopiia Street No.4	Slobidskyi
86	8 Tankopiia Street No.5	Slobidskyi
87	8 Tankopiia Street No.6	Slobidskyi
88	8 Tankopiia Street No.7	Slobidskyi
89	8A Tankopiia Street No.1	Slobidskyi
90	8A Tankopiia Street No.2	Slobidskyi
91	8B Tankopiia Street No.1	Slobidskyi
92	8B Tankopiia Street No.2	Slobidskyi
93	8G Tankopiia Street	Slobidskyi
94	11A Sadovyι Passage No.1	Slobidskyi
95	11A Sadovyι Passage No.2	Slobidskyi
96	11A Sadovyι Passage No.3	Slobidskyi

97	3 Sadovyi Passage No.1	Slobidskyi
98	3 Sadovyi Passage No.2	Slobidskyi
99	5 Sadovyi Passage	Slobidskyi
100	5A Sadovyi Passage	Slobidskyi
101	9 Sadovyi Passage	Slobidskyi
102	10 Petra Hryhorenka Avenue No.1	Slobidskyi
103	10 Petra Hryhorenka Avenue No.2	Slobidskyi
104	10 Petra Hryhorenka Avenue No.3	Slobidskyi
105	10 Petra Hryhorenka Avenue No.4	Slobidskyi
106	10 Petra Hryhorenka Avenue No.5	Slobidskyi
107	10 Petra Hryhorenka Avenue No.6	Slobidskyi
108	10A Petra Hryhorenka Avenue	Slobidskyi
109	10V Petra Hryhorenka Avenue	Slobidskyi
110	10G Petra Hryhorenka Avenue	Slobidskyi
111	10D Petra Hryhorenka Avenue	Slobidskyi
112	12 Petra Hryhorenka Avenue No.1	Slobidskyi
113	12 Petra Hryhorenka Avenue No.2	Slobidskyi
114	12A Petra Hryhorenka Avenue	Slobidskyi
115	12B Petra Hryhorenka Avenue	Slobidskyi
116	12V Petra Hryhorenka Avenue	Slobidskyi
117	1 Kyrhызka Street No.1	Slobidskyi
118	3 Kyrhызka Street No.1	Slobidskyi
119	3 Kyrhызka Street No.2	Slobidskyi
120	3 Moniushka Street	Slobidskyi
121	5 Zernovyi Lane	Slobidskyi
122	5A Zernovyi Lane No.1	Slobidskyi
123	5A Zernovyi Lane No.2	Slobidskyi
124	5A Zernovyi Lane No.3	Slobidskyi
125	5B Zernovyi Lane No.1	Slobidskyi
126	5B Zernovyi Lane No.2	Slobidskyi
127	5B Zernovyi Lane No.3	Slobidskyi
128	5B Zernovyi Lane No.4	Slobidskyi
129	5V Zernovyi Lane No.1	Slobidskyi
130	5V Zernovyi Lane No.2	Slobidskyi
131	5G Zernovyi Lane No.1	Slobidskyi
132	5G Zernovyi Lane No.2	Slobidskyi
133	5G Zernovyi Lane No.3	Slobidskyi
134	6/1 Zernovyi Lane	Slobidskyi
135	6/2 Zernovyi Lane	Slobidskyi
136	6/3 Zernovyi Lane	Slobidskyi
137	6/5 Zernovyi Lane	Slobidskyi
138	6/6 Zernovyi Lane No.1	Slobidskyi
139	6/6 Zernovyi Lane No.2	Slobidskyi
140	6/7 Zernovyi Lane	Slobidskyi
141	4 Tarasivskyi Entry No.1	Slobidskyi
142	4 Tarasivskyi Entry No.2	Slobidskyi
143	4 Tarasivskyi Entry No.3	Slobidskyi
144	9 Fesenkivskyi Entry No.1	Slobidskyi
145	9 Fesenkivskyi Entry No.2	Slobidskyi
146	1 Dniprovсka Street No.1	Slobidskyi

147	1 Dniprovska Street No.2	Slobidskyi
148	1 Dniprovska Street No.3	Slobidskyi
149	10 Polova Street No.1	Slobidskyi
150	10 Polova Street No.2	Slobidskyi
151	2 Polova Street No.1	Slobidskyi
152	2 Polova Street No.2	Slobidskyi
153	4 Polova Street No.1	Slobidskyi
154	4 Polova Street No.2	Slobidskyi
155	4 Polova Street No.3	Slobidskyi
156	4 Polova Street No.4	Slobidskyi
157	6 Polova Street No.1	Slobidskyi
158	6 Polova Street No.2	Slobidskyi
159	16 Fesenkivska Street	Slobidskyi
160	45A Haharina Avenue No.1	Slobidskyi
161	45A Haharina Avenue No.2	Slobidskyi
162	45A Haharina Avenue No.3	Slobidskyi
163	45A Haharina Avenue No.4	Slobidskyi
164	45A Haharina Avenue No.5	Slobidskyi
165	45A Haharina Avenue No.6	Slobidskyi
166	47A Haharina Avenue No.1	Slobidskyi
167	47A Haharina Avenue No.2	Slobidskyi
168	47A Haharina Avenue No.3	Slobidskyi
169	47A Haharina Avenue No.4	Slobidskyi
170	6 Kyrhyzka Street	Slobidskyi
171	1A Zernovyi Lane	Slobidskyi
172	175A Haharina Avenue	Slobidskyi
173	179 Haharina Avenue No.1	Slobidskyi
174	179 Haharina Avenue No.2	Slobidskyi
175	1/8 Heroiv Stalinhrada Avenue No.1	Slobidskyi
176	1/8 Heroiv Stalinhrada Avenue No.2	Slobidskyi
177	1A Heroiv Stalinhrada Avenue	Slobidskyi
178	5 Heroiv Stalinhrada Avenue No.1	Slobidskyi
179	5 Heroiv Stalinhrada Avenue No.2	Slobidskyi
180	5/1 Heroiv Stalinhrada Avenue	Slobidskyi
181	7 Heroiv Stalinhrada Avenue	Slobidskyi
182	7/1 Heroiv Stalinhrada Avenue	Slobidskyi
183	12 Matrosova Street	Slobidskyi
184	14 Matrosova Street	Slobidskyi
185	16 Matrosova Street	Slobidskyi
186	171A Haharina Avenue No.1	Slobidskyi
187	171A Haharina Avenue No.2	Slobidskyi
188	1 K3 Molochna Street	Slobidskyi
189	20 Sadovyi Passage	Slobidskyi
190	22 Sadovyi Passage	Slobidskyi
191	24 Sadovyi Passage	Slobidskyi
192	26 Sadovyi Passage	Slobidskyi
193	28 Sadovyi Passage	Slobidskyi
194	30 Sadovyi Passage	Slobidskyi
195	1 Soicha Street	Slobidskyi
196	4 Soicha Street	Slobidskyi

197	122 Moskovskiy Avenue	Slobidskyi
198	15 Kovtuna Street	Slobidskyi
199	19 Kovtuna Street	Slobidskyi
200	23 Kovtuna Street	Slobidskyi
201	40 Kovtuna Street	Slobidskyi
202	42 Kovtuna Street	Slobidskyi
203	87 Polova Street	Slobidskyi
204	6B Askoldivska Street	Slobidskyi
205	6V Askoldivska Street	Slobidskyi
206	9 Kyrhызka Street	Slobidskyi
207	9B Kyrhызka Street	Slobidskyi
208	9D Kyrhызka Street	Slobidskyi
209	15 Spyrndonivska Street	Slobidskyi
210	12/14 Fesenkivska Street	Slobidskyi
211	5A Brianskyi Lane	Slobidskyi
212	11 K4 Molochna Street	Slobidskyi
213	11 K5 Molochna Street	Slobidskyi
214	11 K6 Molochna Street	Slobidskyi
215	11 K7 Molochna Street	Slobidskyi
216	11 K8 Molochna Street	Slobidskyi
217	40 Plekhanivska Street	Slobidskyi
218	41/43 Plekhanivska Street	Slobidskyi
219	90A Plekhanivska Street	Slobidskyi
220	16 Mukhachova Street	Slobidskyi
221	18 Mukhachova Street	Slobidskyi
222	20 Mukhachova Street	Slobidskyi
223	22 Mukhachova Street	Slobidskyi
224	24 Mukhachova Street	Slobidskyi
225	5 Mukhachova Street	Slobidskyi
226	5A Mukhachova Street	Slobidskyi
227	2A Dyzelna Street	Slobidskyi
228	2B Dyzelna Street	Slobidskyi
229	4 Dyzelna Street	Slobidskyi
230	6 Dyzelna Street	Slobidskyi
231	10 Kovtuna Street	Slobidskyi
232	10A Kovtuna Street	Slobidskyi
233	12 Kovtuna Street	Slobidskyi
234	16 Kovtuna Street	Slobidskyi
235	20 Kovtuna Street	Slobidskyi
236	24 Kovtuna Street	Slobidskyi
237	5 Kovtuna Street	Slobidskyi
238	5 Morozova Street	Slobidskyi
239	10 Teplovozna Street	Slobidskyi
240	2 Teplovozna Street	Slobidskyi
241	3 Teplovozna Street	Slobidskyi
242	4 Teplovozna Street	Slobidskyi
243	5 Teplovozna Street	Slobidskyi
244	6 Teplovozna Street	Slobidskyi
245	7 Teplovozna Street	Slobidskyi
246	9 Teplovozna Street	Slobidskyi

247	3 Chornomorska Street	Slobidskyi
248	22B Morozova Street	Slobidskyi
249	124 Moskovskiy Avenue	Slobidskyi
250	124/3 Moskovskiy Avenue	Slobidskyi
251	124/5A Moskovskiy Avenue	Slobidskyi
252	98A Plekhanivska Street	Slobidskyi
253	4 Orenburzka Street	Slobidskyi
254	73 Plekhanivska Street No.1	Slobidskyi
255	73 Plekhanivska Street No.2	Slobidskyi
256	26 Smolna Street	Slobidskyi
257	1 Bronenostsia Potomkin Street No.1	Slobidskyi
258	1 Bronenostsia Potomkin Street No.2	Slobidskyi
259	1B Bronenostsia Potomkin Street No.1	Slobidskyi
260	1B Bronenostsia Potomkin Street No.2	Slobidskyi
261	10 Koshkina Street	Slobidskyi
262	124/4 Moskovskiy Avenue	Slobidskyi
263	124A Moskovskiy Avenue No.1	Slobidskyi
264	124A Moskovskiy Avenue No.2	Slobidskyi
265	28 Pereizna Street	Slobidskyi
266	11 Aeroflotska Street	Slobidskyi
267	12 Aeroflotska Street	Slobidskyi
268	14 Aeroflotska Street	Slobidskyi
269	18 Aeroflotska Street	Slobidskyi
270	7 Aeroflotska Street	Slobidskyi
271	3 Nesterova Street	Slobidskyi
272	4 Nesterova Street	Slobidskyi
273	6 Nesterova Street	Slobidskyi
274	6A Romashkina Street	Slobidskyi
275	1A Pilotiv Lane	Slobidskyi
276	3 Pilotiv Lane	Slobidskyi
277	5 Pilotiv Lane	Slobidskyi
278	7 Pilotiv Lane	Slobidskyi
279	7A Pilotiv Lane	Slobidskyi
280	203 Haharina Avenue	Slobidskyi
281	205 Haharina Avenue	Slobidskyi
282	205/1 Haharina Avenue	Slobidskyi
283	211 Haharina Avenue	Slobidskyi
284	191A Haharina Avenue	Slobidskyi
285	193 Haharina Avenue	Slobidskyi
286	193A Haharina Avenue	Slobidskyi
287	195 Haharina Avenue	Slobidskyi
288	195A Haharina Avenue	Slobidskyi
289	197 Haharina Avenue	Slobidskyi
290	199 Haharina Avenue	Slobidskyi
291	199A Haharina Avenue	Slobidskyi
292	28 Tankopiia Street No.1	Slobidskyi
293	28 Tankopiia Street No.2	Slobidskyi
294	28A Tankopiia Street	Slobidskyi
295	32 Tankopiia Street No.1	Slobidskyi
296	32 Tankopiia Street No.2	Slobidskyi

297	34 Tankopiia Street	Slobidskyi
298	23 Petra Hryhorenka Avenue	Slobidskyi
299	27 Petra Hryhorenka Avenue	Slobidskyi
300	31 Petra Hryhorenka Avenue	Slobidskyi
301	37 Petra Hryhorenka Avenue	Slobidskyi
302	41 Petra Hryhorenka Avenue No.1	Slobidskyi
303	41 Petra Hryhorenka Avenue No.2	Slobidskyi
304	45 Petra Hryhorenka Avenue	Slobidskyi
305	21/15 Rybalka Street No.1	Nemyshlianskyi
306	21/15 Rybalka Street No.2	Nemyshlianskyi
307	23 Rybalka Street	Nemyshlianskyi
308	27 Rybalka Street	Nemyshlianskyi
309	29 Rybalka Street	Nemyshlianskyi
310	33 Rybalka Street	Nemyshlianskyi
311	35 Rybalka Street	Nemyshlianskyi
312	37 Rybalka Street No.1	Nemyshlianskyi
313	37 Rybalka Street No.2	Nemyshlianskyi
314	39 Rybalka Street	Nemyshlianskyi
315	220 Moskovskyi Avenue	Nemyshlianskyi
316	222 Moskovskyi Avenue	Nemyshlianskyi
317	226 Moskovskyi Avenue	Nemyshlianskyi
318	226A Moskovskyi Avenue	Nemyshlianskyi
319	228 Moskovskyi Avenue	Nemyshlianskyi
320	232 Moskovskyi Avenue	Nemyshlianskyi
321	232A Moskovskyi Avenue	Nemyshlianskyi
322	234 Moskovskyi Avenue	Nemyshlianskyi
323	234A Moskovskyi Avenue	Nemyshlianskyi
324	236 Moskovskyi Avenue	Nemyshlianskyi
325	238 Moskovskyi Avenue	Nemyshlianskyi
326	238A Moskovskyi Avenue	Nemyshlianskyi
327	240 Moskovskyi Avenue	Nemyshlianskyi
328	4 Bohdana Khmelnytskoho Boulevard	Nemyshlianskyi
329	6 Bohdana Khmelnytskoho Boulevard	Nemyshlianskyi
330	10 Bohdana Khmelnytskoho Boulevard	Nemyshlianskyi
331	12 Bohdana Khmelnytskoho Boulevard	Nemyshlianskyi
332	14 Bohdana Khmelnytskoho Boulevard	Nemyshlianskyi
333	16 Bohdana Khmelnytskoho Boulevard	Nemyshlianskyi
334	18 Bohdana Khmelnytskoho Boulevard	Nemyshlianskyi
335	20 Bohdana Khmelnytskoho Boulevard	Nemyshlianskyi
336	1 Oshchepkova Street	Nemyshlianskyi
337	3 Oshchepkova Street	Nemyshlianskyi
338	7 Oshchepkova Street	Nemyshlianskyi
339	7A Oshchepkova Street	Nemyshlianskyi
340	11 Oshchepkova Street	Nemyshlianskyi
341	13 Oshchepkova Street	Nemyshlianskyi
342	2 Stadionnyi Passage	Nemyshlianskyi
343	2/4 Stadionnyi Passage	Nemyshlianskyi
344	4 Stadionnyi Passage	Nemyshlianskyi
345	4/3 Stadionnyi Passage	Nemyshlianskyi
346	4/4 Stadionnyi Passage No.1	Nemyshlianskyi

347	4/4 Stadionnyi Passage No.2	Nemyshtlianskyi
348	5 Stadionnyi Passage	Nemyshtlianskyi
349	6 Stadionnyi Passage	Nemyshtlianskyi
350	6/1 Stadionnyi Passage	Nemyshtlianskyi
351	6/3 Stadionnyi Passage	Nemyshtlianskyi
352	9 Stadionnyi Passage	Nemyshtlianskyi
353	13 Petra Hryhorenka Avenue	Nemyshtlianskyi
354	21/1 Petra Hryhorenka Avenue No.1	Nemyshtlianskyi
355	21/1 Petra Hryhorenka Avenue No.2	Nemyshtlianskyi
356	21 Petra Hryhorenka Avenue	Nemyshtlianskyi
357	9/23 Tankopiia Street	Nemyshtlianskyi
358	13A Tankopiia Street No.1	Nemyshtlianskyi
359	13A Tankopiia Street No.2	Nemyshtlianskyi
360	9A Tankopiia Street No.1	Nemyshtlianskyi
361	9A Tankopiia Street No.2	Nemyshtlianskyi
362	9A Tankopiia Street No.3	Nemyshtlianskyi
363	11/3 Tankopiia Street No.1	Nemyshtlianskyi
364	11/3 Tankopiia Street No.2	Nemyshtlianskyi
365	11/3 Tankopiia Street No.3	Nemyshtlianskyi
366	9/3 Tankopiia Street No.1	Nemyshtlianskyi
367	9/3 Tankopiia Street No.2	Nemyshtlianskyi
368	9/3 Tankopiia Street No.3	Nemyshtlianskyi
369	1 Dvadtsiat tretoho Serpnia Lane No.1	Shevchenkivskyi
370	1 Dvadtsiat tretoho Serpnia Lane No.2	Shevchenkivskyi
371	1 Dvadtsiat tretoho Serpnia Lane No.3	Shevchenkivskyi
372	1 Dvadtsiat tretoho Serpnia Lane No.4	Shevchenkivskyi
373	3 Dvadtsiat tretoho Serpnia Lane	Shevchenkivskyi
374	5 Dvadtsiat tretoho Serpnia Lane	Shevchenkivskyi
375	6 Dvadtsiat tretoho Serpnia Lane	Shevchenkivskyi
376	7 Dvadtsiat tretoho Serpnia Lane	Shevchenkivskyi
377	8 Dvadtsiat tretoho Serpnia Lane	Shevchenkivskyi
378	10 Dvadtsiat tretoho Serpnia Lane No.1	Shevchenkivskyi
379	10 Dvadtsiat tretoho Serpnia Lane No.2	Shevchenkivskyi
380	10 Dvadtsiat tretoho Serpnia Lane No.3	Shevchenkivskyi
381	77 Dvadtsiat tretoho Serpnia Street	Shevchenkivskyi
382	75 Dvadtsiat tretoho Serpnia Street	Shevchenkivskyi
383	79 Dvadtsiat tretoho Serpnia Street	Shevchenkivskyi
384	81 Dvadtsiat tretoho Serpnia Street	Shevchenkivskyi
385	50 Balakirieva Street	Shevchenkivskyi
386	50 A Balakirieva Street	Shevchenkivskyi
387	46 Derevianka Street	Shevchenkivskyi
388	48 Derevianka Street No.1	Shevchenkivskyi
389	48 Derevianka Street No.2	Shevchenkivskyi
390	50 Derevianka Street	Shevchenkivskyi
391	52 Derevianka Street	Shevchenkivskyi
392	9A Novoprudna Street	Shevchenkivskyi
393	59 Otakara Yarosha Street	Shevchenkivskyi
394	61 Otakara Yarosha Street No.1	Shevchenkivskyi
395	61 Otakara Yarosha Street No.2	Shevchenkivskyi
396	61 Otakara Yarosha Street No.3	Shevchenkivskyi

397	61A Otakara Yarosha Street	Shevchenkivskiyi
398	6 Starytskoho Street	Shevchenkivskiyi
399	9 Starytskoho Street No.1	Shevchenkivskiyi
400	9 Starytskoho Street No.2	Shevchenkivskiyi
401	9 Starytskoho Street No.3	Shevchenkivskiyi
402	9 Starytskoho Street No.4	Shevchenkivskiyi
403	9 Starytskoho Street No.5	Shevchenkivskiyi
404	9 Starytskoho Street No.6	Shevchenkivskiyi
405	12 Saperna Street	Kyivskiyi
406	14 Saperna Street	Kyivskiyi
407	20 Saperna Street No.1	Kyivskiyi
408	20 Saperna Street No.2	Kyivskiyi
409	20 Saperna Street No.3	Kyivskiyi
410	30 Saperna Street No.1	Kyivskiyi
411	30 Saperna Street No.2	Kyivskiyi
412	34 Saperna Street No.1	Kyivskiyi
413	34 Saperna Street No.2	Kyivskiyi
414	34 Saperna Street No.3	Kyivskiyi
415	333 Shevchenka Street	Kyivskiyi
416	335 Shevchenka Street No.1	Kyivskiyi
417	335 Shevchenka Street No.2	Kyivskiyi
418	335 Shevchenka Street No.3	Kyivskiyi
419	339 Shevchenka Street	Kyivskiyi
420	341 Shevchenka Street No.1	Kyivskiyi
421	341 Shevchenka Street No.2	Kyivskiyi
422	343 Shevchenka Street No.1	Kyivskiyi
423	343 Shevchenka Street No.2	Kyivskiyi
424	343 Shevchenka Street No.3	Kyivskiyi
425	4 Akademika Kurchatova Avenue	Kyivskiyi
426	8 Akademika Kurchatova Avenue	Kyivskiyi
427	8A Akademika Kurchatova Avenue	Kyivskiyi
428	10 Akademika Kurchatova Avenue No.1	Kyivskiyi
429	10 Akademika Kurchatova Avenue No.2	Kyivskiyi
430	10 Akademika Kurchatova Avenue No.3	Kyivskiyi
431	10 Akademika Kurchatova Avenue No.4	Kyivskiyi
432	28 Akademika Kurchatova Avenue	Kyivskiyi
433	1 Hatseva Street No.1	Kyivskiyi
434	1 Hatseva Street No.2	Kyivskiyi
435	1 Hatseva Street No.3	Kyivskiyi
436	1 Hatseva Street No.4	Kyivskiyi
437	7A Hatseva Street	Kyivskiyi
438	7B Hatseva Street	Kyivskiyi
439	9 Akademika Valtera Street	Kyivskiyi
440	10 Akademika Valtera Street	Kyivskiyi
441	12 Akademika Valtera Street	Kyivskiyi
442	13 Akademika Valtera Street	Kyivskiyi
443	15 Akademika Valtera Street	Kyivskiyi
444	17 Akademika Valtera Street	Kyivskiyi
445	21 Akademika Valtera Street	Kyivskiyi
446	21A Akademika Valtera Street	Kyivskiyi

447	5 Akademika Kurchatova Avenue	Kyivskyyi
448	7 Akademika Kurchatova Street	Kyivskyyi
449	9 Akademika Kurchatova Avenue	Kyivskyyi
450	11 Akademika Kurchatova Avenue	Kyivskyyi
451	13 Akademika Kurchatova Avenue	Kyivskyyi
452	17 Akademika Kurchatova Avenue	Kyivskyyi
453	25 Akademika Kurchatova Avenue	Kyivskyyi
454	27 Akademika Kurchatova Avenue	Kyivskyyi
455	1 Akademika Synelnykova Street	Kyivskyyi
456	3 Akademika Synelnykova Street	Kyivskyyi
457	5 Akademika Synelnykova Street	Kyivskyyi
458	1 Yevpatoriiskyyi Passage	Kyivskyyi
459	2 Yevpatoriiskyyi Passage	Kyivskyyi
460	3 Yevpatoriiskyyi Passage	Kyivskyyi
461	5 Yevpatoriiskyyi Passage	Kyivskyyi
462	1 Akademika Volkova Street	Kyivskyyi
463	2 Akademika Volkova Street	Kyivskyyi
464	3 Akademika Volkova Street	Kyivskyyi
465	4 Akademika Volkova Street	Kyivskyyi
466	3 Harkushi Street	Kyivskyyi
467	1 Myru Boulevard	Kyivskyyi
468	2 Myru Boulevard	Kyivskyyi
469	3 Myru Boulevard	Kyivskyyi
470	4 Myru Boulevard	Kyivskyyi
471	15 Кисловодська Street	Kyivskyyi
472	301 Shevchenka Street	Kyivskyyi
473	14 Lesia Serdiuka StreetNo.1	Moskovskyyi
474	14 Lesia Serdiuka StreetNo.2	Moskovskyyi
475	218 Druzhby Narodiv StreetNo.1	Moskovskyyi
476	218 Druzhby Narodiv StreetNo.2	Moskovskyyi
477	236A Druzhby Narodiv Street	Moskovskyyi
478	40 Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
479	40 Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
480	40 Hvardiitsiv Shyronintsiv Street No.3	Moskovskyyi
481	40 Hvardiitsiv Shyronintsiv Street No.4	Moskovskyyi
482	40 Hvardiitsiv Shyronintsiv Street No.5	Moskovskyyi
483	40 Hvardiitsiv Shyronintsiv Street No.6	Moskovskyyi
484	40 Hvardiitsiv Shyronintsiv Street No.7	Moskovskyyi
485	40 Hvardiitsiv Shyronintsiv Street No.8	Moskovskyyi
486	40 Hvardiitsiv Shyronintsiv Street No.9	Moskovskyyi
487	40 Hvardiitsiv Shyronintsiv Street No.10	Moskovskyyi
488	40 Hvardiitsiv Shyronintsiv Street No.11	Moskovskyyi
489	38A Hvardiitsiv Shyronintsiv Street	Moskovskyyi
490	38B Hvardiitsiv Shyronintsiv Street	Moskovskyyi
491	38V Hvardiitsiv Shyronintsiv Street	Moskovskyyi
492	40B Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
493	40B Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
494	40V Hvardiitsiv Shyronintsiv Street	Moskovskyyi
495	40G Hvardiitsiv Shyronintsiv Street	Moskovskyyi
496	40D Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi

497	40D Hvardiitsiv Shyronintsiv Street No.2	Moskovskiyi
498	83G Traktorobudivnykiv Avenue No.1	Moskovskiyi
499	83G Traktorobudivnykiv Avenue No.2	Moskovskiyi
500	85G Traktorobudivnykiv Avenue No.1	Moskovskiyi
501	85G Traktorobudivnykiv Avenue No.2	Moskovskiyi
502	85V Traktorobudivnykiv Avenue No.1	Moskovskiyi
503	85V Traktorobudivnykiv Avenue No.2	Moskovskiyi
504	85A Traktorobudivnykiv Avenue	Moskovskiyi
505	87A Traktorobudivnykiv Avenue	Moskovskiyi
506	87B Traktorobudivnykiv Avenue No.1	Moskovskiyi
507	87B Traktorobudivnykiv Avenue No.2	Moskovskiyi
508	87B Traktorobudivnykiv Avenue No.3	Moskovskiyi
509	71G Traktorobudivnykiv Avenue	Moskovskiyi
510	71B Traktorobudivnykiv Avenue No.1	Moskovskiyi
511	71B Traktorobudivnykiv Avenue No.2	Moskovskiyi
512	77A Traktorobudivnykiv Avenue No.1	Moskovskiyi
513	77A Traktorobudivnykiv Avenue No.2	Moskovskiyi
514	77A Traktorobudivnykiv Avenue No.3	Moskovskiyi
515	77 Traktorobudivnykiv Avenue No.1	Moskovskiyi
516	77 Traktorobudivnykiv Avenue No.2	Moskovskiyi
517	77 Traktorobudivnykiv Avenue No.3	Moskovskiyi
518	77 Traktorobudivnykiv Avenue No.4	Moskovskiyi
519	77 Traktorobudivnykiv Avenue No.5	Moskovskiyi
520	77 Traktorobudivnykiv Avenue No.6	Moskovskiyi
521	77 Traktorobudivnykiv Avenue No.7	Moskovskiyi
522	77 Traktorobudivnykiv Avenue No.8	Moskovskiyi
523	77 Traktorobudivnykiv Avenue No.9	Moskovskiyi
524	77 Traktorobudivnykiv Avenue No.10	Moskovskiyi
525	77 Traktorobudivnykiv Avenue No.11	Moskovskiyi
526	34 Vladyslava Zubenka Street No.1	Moskovskiyi
527	34 Vladyslava Zubenka Street No.2	Moskovskiyi
528	34 Vladyslava Zubenka Street No.3	Moskovskiyi
529	36 Vladyslava Zubenka Street	Moskovskiyi
530	36A Vladyslava Zubenka Street No.1	Moskovskiyi
531	36A Vladyslava Zubenka Street No.2	Moskovskiyi
532	34B Vladyslava Zubenka Street No.1	Moskovskiyi
533	34B Vladyslava Zubenka Street No.2	Moskovskiyi
534	49G Hvardiitsiv Shyronintsiv Street No.1	Moskovskiyi
535	49G Hvardiitsiv Shyronintsiv Street No.2	Moskovskiyi
536	49V Hvardiitsiv Shyronintsiv Street	Moskovskiyi
537	49A Hvardiitsiv Shyronintsiv Street No.1	Moskovskiyi
538	49A Hvardiitsiv Shyronintsiv Street No.2	Moskovskiyi
539	49A Hvardiitsiv Shyronintsiv Street No.3	Moskovskiyi
540	49A Hvardiitsiv Shyronintsiv Street No.4	Moskovskiyi
541	24G Valentynivska Street No.1	Moskovskiyi
542	24G Valentynivska Street No.2	Moskovskiyi
543	22 Valentynivska Street No.1	Moskovskiyi
544	22 Valentynivska Street No.2	Moskovskiyi
545	22 Valentynivska Street No.3	Moskovskiyi
546	22 Valentynivska Street No.4	Moskovskiyi

547	22 Valentynivska Street No.5	Moskovskyyi
548	22 Valentynivska Street No.6	Moskovskyyi
549	22 Valentynivska Street No.7	Moskovskyyi
550	22 Valentynivska Street No.8	Moskovskyyi
551	22 Valentynivska Street No.9	Moskovskyyi
552	24 Valentynivska Street No.1	Moskovskyyi
553	24 Valentynivska Street No.2	Moskovskyyi
554	24 Valentynivska Street No.3	Moskovskyyi
555	24 Valentynivska Street No.4	Moskovskyyi
556	24 Valentynivska Street No.5	Moskovskyyi
557	24 Valentynivska Street No.6	Moskovskyyi
558	24A Valentynivska Street	Moskovskyyi
559	24B Valentynivska Street No.1	Moskovskyyi
560	24B Valentynivska Street No.2	Moskovskyyi
561	26A Valentynivska Street No.1	Moskovskyyi
562	26A Valentynivska Street No.2	Moskovskyyi
563	17B Vladyslava Zubenka Street No.1	Moskovskyyi
564	17B Vladyslava Zubenka Street No.2	Moskovskyyi
565	17B Vladyslava Zubenka Street No.3	Moskovskyyi
566	17B Vladyslava Zubenka Street No.4	Moskovskyyi
567	21 Vladyslava Zubenka Street No.1	Moskovskyyi
568	21 Vladyslava Zubenka Street No.2	Moskovskyyi
569	21 Vladyslava Zubenka Street No.3	Moskovskyyi
570	21 Vladyslava Zubenka Street No.4	Moskovskyyi
571	21 Vladyslava Zubenka Street No.5	Moskovskyyi
572	130 Akademika Pavlova Street No.1	Moskovskyyi
573	130 Akademika Pavlova Street No.2	Moskovskyyi
574	130 Akademika Pavlova Street No.3	Moskovskyyi
575	132A Akademika Pavlova Street No.1	Moskovskyyi
576	132A Akademika Pavlova Street No.2	Moskovskyyi
577	132A Akademika Pavlova Street No.3	Moskovskyyi
578	132A Akademika Pavlova Street No.4	Moskovskyyi
579	132V Akademika Pavlova Street No.1	Moskovskyyi
580	132V Akademika Pavlova Street No.2	Moskovskyyi
581	132V Akademika Pavlova Street No.3	Moskovskyyi
582	132V Akademika Pavlova Street No.4	Moskovskyyi
583	20B Valentynivska Street	Moskovskyyi
584	32A Yuvileinyi Avenue No.1	Moskovskyyi
585	32A Yuvileinyi Avenue No.2	Moskovskyyi
586	34A Yuvileinyi Avenue	Moskovskyyi
587	34B Yuvileinyi Avenue	Moskovskyyi
588	34D Yuvileinyi Avenue No.1	Moskovskyyi
589	34D Yuvileinyi Avenue No.2	Moskovskyyi
590	36A Yuvileinyi Avenue No.1	Moskovskyyi
591	36A Yuvileinyi Avenue No.2	Moskovskyyi
592	36A Yuvileinyi Avenue No.3	Moskovskyyi
593	36 Yuvileinyi Avenue	Moskovskyyi
594	38G Yuvileinyi Avenue	Moskovskyyi
595	40 Yuvileinyi Avenue	Moskovskyyi
596	42A Yuvileinyi Avenue No.1	Moskovskyyi

597	42A Yuvileinyi Avenue No.2	Moskovskyyi
598	42A Yuvileinyi Avenue No.3	Moskovskyyi
599	42V Yuvileinyi Avenue	Moskovskyyi
600	42B Yuvileinyi Avenue	Moskovskyyi
601	44 Yuvileinyi Avenue	Moskovskyyi
602	44A Yuvileinyi Avenue No.1	Moskovskyyi
603	44A Yuvileinyi Avenue No.2	Moskovskyyi
604	44A Yuvileinyi Avenue No.3	Moskovskyyi
605	44A Yuvileinyi Avenue No.4	Moskovskyyi
606	44A Yuvileinyi Avenue No.5	Moskovskyyi
607	44A Yuvileinyi Avenue No.6	Moskovskyyi
608	156 Lva Landau Avenue No.1	Moskovskyyi
609	156 Lva Landau Avenue No.2	Moskovskyyi
610	9A Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
611	9A Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
612	5 Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
613	5 Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
614	5 Hvardiitsiv Shyronintsiv Street No.3	Moskovskyyi
615	5 Hvardiitsiv Shyronintsiv Street No.4	Moskovskyyi
616	5V Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
617	5V Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
618	5V Hvardiitsiv Shyronintsiv Street No.3	Moskovskyyi
619	9B Hvardiitsiv Shyronintsiv Street	Moskovskyyi
620	27 Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
621	27 Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
622	27 Hvardiitsiv Shyronintsiv Street No.3	Moskovskyyi
623	25 Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
624	25 Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
625	25 Hvardiitsiv Shyronintsiv Street No.3	Moskovskyyi
626	25 Hvardiitsiv Shyronintsiv Street No.4	Moskovskyyi
627	23 Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
628	23 Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
629	23 Hvardiitsiv Shyronintsiv Street No.3	Moskovskyyi
630	23 Hvardiitsiv Shyronintsiv Street No.4	Moskovskyyi
631	23 Hvardiitsiv Shyronintsiv Street No.5	Moskovskyyi
632	23 Hvardiitsiv Shyronintsiv Street No.6	Moskovskyyi
633	21 Hvardiitsiv Shyronintsiv Street No.1	Moskovskyyi
634	21 Hvardiitsiv Shyronintsiv Street No.2	Moskovskyyi
635	21 Hvardiitsiv Shyronintsiv Street No.3	Moskovskyyi
636	4 Yuriiia Parashchuka Street	Novobavarskyi
637	7 Yuriiia Parashchuka Street	Novobavarskyi
638	57 Hryhorivske Highway No.1	Novobavarskyi
639	57 Hryhorivske Highway No.2	Novobavarskyi
640	57 Hryhorivske Highway No.3	Novobavarskyi
641	57 Hryhorivske Highway No.4	Novobavarskyi
642	63 Hryhorivske Highway	Novobavarskyi
643	65 Hryhorivske Highway	Novobavarskyi
644	67 Hryhorivske Highway	Novobavarskyi
645	10 Tytarenkivskyyi Lane	Novobavarskyi
646	12 Tytarenkivskyyi Lane	Novobavarskyi

647	3 Petra Bolbochana Street	Novobavarskyi
648	4 Petra Bolbochana Street	Novobavarskyi
649	5 Petra Bolbochana Street	Novobavarskyi
650	6 Petra Bolbochana Street	Novobavarskyi
651	7 Petra Bolbochana Street	Novobavarskyi
652	23 Permska Street	Novobavarskyi
653	25 Permska Street	Novobavarskyi
654	123 Poltavskyi Shliakh Street	Novobavarskyi
655	51 Hryhorivske Highway No.1	Novobavarskyi
656	51 Hryhorivske Highway No.2	Novobavarskyi
657	51 Hryhorivske Highway No.3	Novobavarskyi
658	51 Hryhorivske Highway No.4	Novobavarskyi
659	2 Kamska Street	Novobavarskyi
660	155 Poltavskyi Shliakh Street No.1	Novobavarskyi
661	155 Poltavskyi Shliakh Street No.2	Novobavarskyi
662	155A Poltavskyi Shliakh Street	Novobavarskyi
663	28 Timiriazieva Street No.1	Novobavarskyi
664	28 Timiriazieva Street No.2	Novobavarskyi
665	28 Timiriazieva Street No.3	Novobavarskyi
666	28 Timiriazieva Street No.4	Novobavarskyi
667	28 Timiriazieva Street No.5	Novobavarskyi
668	28 Timiriazieva Street No.6	Novobavarskyi
669	30 Timiriazieva Street	Novobavarskyi
670	42 Timiriazieva Street	Novobavarskyi
671	43 Timiriazieva Street	Novobavarskyi
672	47 Liubovi Maloi Avenue	Novobavarskyi
673	51 Liubovi Maloi Avenue	Novobavarskyi
674	53 Liubovi Maloi Avenue	Novobavarskyi
675	6 Kubrakovskyi Lane	Novobavarskyi
676	34 Selianska Street	Novobavarskyi
677	34A Selianska Street No.1	Novobavarskyi
678	34A Selianska Street No.2	Novobavarskyi
679	34A Selianska Street No.3	Novobavarskyi
680	36 Selianska Street	Novobavarskyi
681	18 Dobroliubova Street	Novobavarskyi
682	79 Hryhorivske Highway	Novobavarskyi
683	81 Hryhorivske Highway No.1	Novobavarskyi
684	81 Hryhorivske Highway No.2	Novobavarskyi
685	83 Hryhorivske Highway No.1	Novobavarskyi
686	83 Hryhorivske Highway No.2	Novobavarskyi
687	83A Hryhorivske Highway	Novobavarskyi
688	38B Hryhorivske Highway	Novobavarskyi
689	83V Hryhorivske Highway	Novobavarskyi
690	85 Hryhorivske Highway	Novobavarskyi
691	86A, 86B Hryhorivska Street	Novobavarskyi
692	174 Moskalivska Street	Novobavarskyi
693	10 Peremozhtsiv Street	Novobavarskyi
694	4 Peremozhtsiv Street	Novobavarskyi
695	6 Peremozhtsiv Street	Novobavarskyi
696	8 Peremozhtsiv Street	Novobavarskyi

697	177 Poltavskiy Shliakh Street	Novobavarskyi
698	107 Novo-Bavarskyi Avenue	Novobavarskyi
699	101 Novo-Bavarskyi Avenue	Novobavarskyi
700	97 Novo-Bavarskyi Avenue	Novobavarskyi
701	95 Novo-Bavarskyi Avenue	Novobavarskyi
702	93 Novo-Bavarskyi Avenue	Novobavarskyi
703	27 Kybalchycha Street No.1	Novobavarskyi
704	27 Kybalchycha Street No.2	Novobavarskyi
705	27 Kybalchycha Street No.3	Novobavarskyi
706	27 Kybalchycha Street No.4	Novobavarskyi
707	9 Konieva Street No.1 and No.2	Novobavarskyi
708	9 Konieva Street No.3	Novobavarskyi
709	70 Profspilkovyi Boulevard	Novobavarskyi
710	8 Kytaienka Street	Novobavarskyi
711	7 Bavarska Street	Novobavarskyi
712	171 Poltavskiy Shliakh Street	Novobavarskyi
713	56 Hertsena Street	Novobavarskyi
714	21 Volonterska Street	Kholodnohirskiyi
715	48 Volonterska Street No.1	Kholodnohirskiyi
716	48 Volonterska Street No.2	Kholodnohirskiyi
717	50 Volonterska Street No.1	Kholodnohirskiyi
718	50 Volonterska Street No.2	Kholodnohirskiyi
719	52 Volonterska Street	Kholodnohirskiyi
720	54 Volonterska Street No.1	Kholodnohirskiyi
721	54 Volonterska Street No.2	Kholodnohirskiyi
722	56 Volonterska Street No.1	Kholodnohirskiyi
723	56 Volonterska Street No.2	Kholodnohirskiyi
724	58 Volonterska Street No.1	Kholodnohirskiyi
725	58 Volonterska Street No.2	Kholodnohirskiyi
726	62 Volonterska Street No.1	Kholodnohirskiyi
727	62 Volonterska Street No.2	Kholodnohirskiyi
728	63 Volonterska Street No.1	Kholodnohirskiyi
729	63 Volonterska Street No.2	Kholodnohirskiyi
730	64 Volonterska Street No.1	Kholodnohirskiyi
731	64 Volonterska Street No.2	Kholodnohirskiyi
732	65 Volonterska Street No.1	Kholodnohirskiyi
733	65 Volonterska Street No.2	Kholodnohirskiyi
734	65 Volonterska Street No.3	Kholodnohirskiyi
735	41 Illinska Street	Kholodnohirskiyi
736	63 Illinska Street No.1	Kholodnohirskiyi
737	63 Illinska Street No.2	Kholodnohirskiyi
738	46 Petra Bolbochana Street	Kholodnohirskiyi
739	48 Petra Bolbochana Street	Kholodnohirskiyi
740	50 Petra Bolbochana Street	Kholodnohirskiyi
741	59 Petra Bolbochana Street	Kholodnohirskiyi
742	63 Petra Bolbochana Street	Kholodnohirskiyi
743	67A Petra Bolbochana Street	Kholodnohirskiyi
744	69 Petra Bolbochana Street	Kholodnohirskiyi
745	126 Poltavskiy Shliakh Street	Kholodnohirskiyi
746	128 Poltavskiy Shliakh Street	Kholodnohirskiyi

747	130/132 Poltavskiyi Shliakh Street	Kholodnohirskiyi
748	60 Volonterska Street No.1	Kholodnohirskiyi
749	60 Volonterska Street No.2	Kholodnohirskiyi
750	60 Volonterska Street No.3	Kholodnohirskiyi
751	60A Volonterska Street No.1	Kholodnohirskiyi
752	60A Volonterska Street No.2	Kholodnohirskiyi
753	60A Volonterska Street No.3	Kholodnohirskiyi
754	68 Volonterska Street No.1	Kholodnohirskiyi
755	68 Volonterska Street No.2	Kholodnohirskiyi
756	68 Volonterska Street No.3	Kholodnohirskiyi
757	68A Volonterska Street No.1	Kholodnohirskiyi
758	68A Volonterska Street No.2	Kholodnohirskiyi
759	68A Volonterska Street No.3	Kholodnohirskiyi
760	70 Volonterska Street No.1	Kholodnohirskiyi
761	70 Volonterska Street No.2	Kholodnohirskiyi
762	70 Volonterska Street No.3	Kholodnohirskiyi
763	70A Volonterska Street No.1	Kholodnohirskiyi
764	70A Volonterska Street No.2	Kholodnohirskiyi
765	70A Volonterska Street No.3	Kholodnohirskiyi
766	74 Volonterska Street	Kholodnohirskiyi
767	7 Cherednychenkivskiyi Lane No.1	Kholodnohirskiyi
768	7 Cherednychenkivskiyi Lane No.2	Kholodnohirskiyi
769	7 Cherednychenkivskiyi Lane No.3	Kholodnohirskiyi
770	7 Cherednychenkivskiyi Lane No.4	Kholodnohirskiyi
771	7 Cherednychenkivskiyi Lane No.5	Kholodnohirskiyi
772	7 Cherednychenkivskiyi Lane No.6	Kholodnohirskiyi
773	7 Cherednychenkivskiyi Lane No.7	Kholodnohirskiyi
774	7 Cherednychenkivskiyi Lane No.8	Kholodnohirskiyi
775	7 Cherednychenkivskiyi Lane No.9	Kholodnohirskiyi
776	7 Cherednychenkivskiyi Lane No.10	Kholodnohirskiyi
777	7 Cherednychenkivskiyi Lane No.11	Kholodnohirskiyi
778	8 Kholodnohirska Street No.1	Kholodnohirskiyi
779	8 Kholodnohirska Street No.2	Kholodnohirskiyi
780	8 Kholodnohirska Street No.3	Kholodnohirskiyi
781	8 Kholodnohirska Street No.4	Kholodnohirskiyi
782	14 Kholodnohirska Street	Kholodnohirskiyi
783	16 Kholodnohirska Street No.1	Kholodnohirskiyi
784	16 Kholodnohirska Street No.2	Kholodnohirskiyi
785	148/2 Poltavskiyi Shliakh Street No.1	Kholodnohirskiyi
786	148/2 Poltavskiyi Shliakh Street No.2	Kholodnohirskiyi
787	148/2 Poltavskiyi Shliakh Street No.3	Kholodnohirskiyi
788	152 Poltavskiyi Shliakh Street No.1	Kholodnohirskiyi
789	152 Poltavskiyi Shliakh Street No.2	Kholodnohirskiyi
790	152 Poltavskiyi Shliakh Street No.3	Kholodnohirskiyi
791	152 Poltavskiyi Shliakh Street No.4	Kholodnohirskiyi
792	154 Poltavskiyi Shliakh Street No.1	Kholodnohirskiyi
793	154 Poltavskiyi Shliakh Street No.2	Kholodnohirskiyi
794	154 Poltavskiyi Shliakh Street No.3	Kholodnohirskiyi
795	154 Poltavskiyi Shliakh Street No.4	Kholodnohirskiyi
796	154 Poltavskiyi Shliakh Street No.5	Kholodnohirskiyi

797	154 Poltavskiy Shliakh Street No.6	Kholodnohirskiyi
798	12 Staroprudna Street No.1	Kholodnohirskiyi
799	12 Staroprudna Street No.2	Kholodnohirskiyi
800	14 Staroprudna Street	Kholodnohirskiyi
801	4 Staroprudna Street	Kholodnohirskiyi
802	6 Staroprudna Street	Kholodnohirskiyi
803	8 Staroprudna Street	Kholodnohirskiyi
804	26 Yhoria Muratova Street	Kholodnohirskiyi
805	28 Yhoria Muratova Street	Kholodnohirskiyi
806	30 Yhoria Muratova Street No.1	Kholodnohirskiyi
807	30 Yhoria Muratova Street No.2	Kholodnohirskiyi
808	1 Pershyi Zolochivskiy Lane	Kholodnohirskiyi
809	8 Zolochivska Street No.1	Kholodnohirskiyi
810	8 Zolochivska Street No.2	Kholodnohirskiyi
811	16 Zolochivska Street	Kholodnohirskiyi
812	17 Zolochivska Street No.1	Kholodnohirskiyi
813	17 Zolochivska Street No.2	Kholodnohirskiyi
814	17 Zolochivska Street No.3	Kholodnohirskiyi
815	17B Zolochivska Street	Kholodnohirskiyi
816	21 Zolochivska Street	Kholodnohirskiyi
817	23 Zolochivska Street	Kholodnohirskiyi
818	25 Zolochivska Street	Kholodnohirskiyi
819	27 Zolochivska Street	Kholodnohirskiyi
820	4 Initsiatyvna Street No.1	Kholodnohirskiyi
821	4 Initsiatyvna Street No.2	Kholodnohirskiyi
822	10/24 Initsiatyvna Street	Kholodnohirskiyi
823	16 Oharivska Street No.1	Kholodnohirskiyi
824	16 Oharivska Street No.2	Kholodnohirskiyi
825	16 Oharivska Street No.3	Kholodnohirskiyi
826	71/1 Taborova Street No.1	Kholodnohirskiyi
827	71/1 Taborova Street No.2	Kholodnohirskiyi
828	71/1 Taborova Street No.3	Kholodnohirskiyi
829	71/1 Taborova Street No.4	Kholodnohirskiyi
830	20 Shchaslyva Street No.1	Kholodnohirskiyi
831	20 Shchaslyva Street No.2	Kholodnohirskiyi
832	20 Shchaslyva Street No.3	Kholodnohirskiyi
833	21 Shchaslyva Street No.1	Kholodnohirskiyi
834	21 Shchaslyva Street No.2	Kholodnohirskiyi
835	21 Shchaslyva Street No.3	Kholodnohirskiyi
836	21 Shchaslyva Street No.4	Kholodnohirskiyi
837	11 Slavy Avenue No.1	Kholodnohirskiyi
838	11 Slavy Avenue No.2	Kholodnohirskiyi
839	11 Slavy Avenue No.3	Kholodnohirskiyi
840	11 Slavy Avenue No.4	Kholodnohirskiyi
841	7 Slavy Avenue No.1	Kholodnohirskiyi
842	7 Slavy Avenue No.2	Kholodnohirskiyi
843	7 Slavy Avenue No.3	Kholodnohirskiyi
844	7 Slavy Avenue No.4	Kholodnohirskiyi
845	9 Slavy Avenue No.1	Kholodnohirskiyi
846	9 Slavy Avenue No.2	Kholodnohirskiyi

847	9 Slavy Avenue No.3	Kholodnohirskiyi
848	9 Slavy Avenue No.4	Kholodnohirskiyi
849	24A Zolochivska Street No.1	Kholodnohirskiyi
850	24A Zolochivska Street No.2	Kholodnohirskiyi
851	24A Zolochivska Street No.3	Kholodnohirskiyi
852	24A Zolochivska Street No.4	Kholodnohirskiyi
853	28 Zolochivska Street No.1	Kholodnohirskiyi
854	28 Zolochivska Street No.2	Kholodnohirskiyi
855	28 Zolochivska Street No.3	Kholodnohirskiyi
856	28 Zolochivska Street No.4	Kholodnohirskiyi
857	30/1 Zolochivska Street No.1	Kholodnohirskiyi
858	30/1 Zolochivska Street No.2	Kholodnohirskiyi
859	30/1 Zolochivska Street No.3	Kholodnohirskiyi
860	30/1 Zolochivska Street No.4	Kholodnohirskiyi
861	2 Borzenka Street No.1	Kholodnohirskiyi
862	2 Borzenka Street No.2	Kholodnohirskiyi
863	2 Borzenka Street No.3	Kholodnohirskiyi
864	3 Borzenka Street	Kholodnohirskiyi
865	4 Borzenka Street No.1	Kholodnohirskiyi
866	4 Borzenka Street No.2	Kholodnohirskiyi
867	4 Borzenka Street No.3	Kholodnohirskiyi
868	5 Borzenka Street No.1	Kholodnohirskiyi
869	5 Borzenka Street No.2	Kholodnohirskiyi
870	5 Borzenka Street No.3	Kholodnohirskiyi
871	7 Borzenka Street No.1	Kholodnohirskiyi
872	7 Borzenka Street No.2	Kholodnohirskiyi
873	7 Borzenka Street No.3	Kholodnohirskiyi
874	7 Borzenka Street No.4	Kholodnohirskiyi
875	8 Borzenka Street No.1	Kholodnohirskiyi
876	8 Borzenka Street No.2	Kholodnohirskiyi
877	8 Borzenka Street No.3	Kholodnohirskiyi
878	13/1 Borzenka Street	Kholodnohirskiyi
879	10 Plastychnyi Lane	Kholodnohirskiyi
880	8 Plastychnyi Lane	Kholodnohirskiyi
881	17 Donbasivskiyi Lane No.1	Kholodnohirskiyi
882	17 Donbasivskiyi Lane No.2	Kholodnohirskiyi
883	17 Donbasivskiyi Lane No.3	Kholodnohirskiyi
884	11 Druhyi Tarasivskiyi Lane	Kholodnohirskiyi
885	2A Tretii Tarasivskiyi Lane	Kholodnohirskiyi
886	5 Verkhivskiyi Lane	Kholodnohirskiyi
887	6 Verkhivskiyi Lane	Kholodnohirskiyi
888	7 Verkhivskiyi Lane	Kholodnohirskiyi
889	23A Verkhovskoho Lane	Kholodnohirskiyi
890	84 Poltavskiyi Shliakh Street	Kholodnohirskiyi
891	4/6 Yevhena Kotliara Street	Kholodnohirskiyi
892	8/10A Yevhena Kotliara Street	Kholodnohirskiyi
893	8/10B Yevhena Kotliara Street	Kholodnohirskiyi
894	8/10V Yevhena Kotliara Street	Kholodnohirskiyi
895	8/10Z Yevhena Kotliara Street	Kholodnohirskiyi
896	12 Yevhena Kotliara Street	Kholodnohirskiyi

897	38 Blahovishchenska Street	Kholodnohirskiyi
898	38E Blahovishchenska Street	Kholodnohirskiyi
899	38D Blahovishchenska Street	Kholodnohirskiyi
900	38Zh Blahovishchenska Street	Kholodnohirskiyi
901	10/14 Malynovskoho Street	Kholodnohirskiyi
902	4 Slov'ianska Street No.1	Kholodnohirskiyi
903	4 Slov'ianska Street No.2	Kholodnohirskiyi
904	4A Slov'ianska Street No.1	Kholodnohirskiyi
905	4A Slov'ianska Street No.2	Kholodnohirskiyi
906	6 Slov'ianska Street No.1	Kholodnohirskiyi
907	6 Slov'ianska Street No.2	Kholodnohirskiyi
908	10 Slov'ianska Street	Kholodnohirskiyi
909	1, 1A Riznykivskiyi Lane	Kholodnohirskiyi
910	36 Velyka Panasivska Street	Kholodnohirskiyi
911	38 Velyka Panasivska Street No.1	Kholodnohirskiyi
912	38 Velyka Panasivska Street No.2	Kholodnohirskiyi
913	38 Velyka Panasivska Street No.3	Kholodnohirskiyi
914	250/5 Velyka Panasivska Street	Kholodnohirskiyi
915	58 Haharina Avenue	Osnovianskyyi
916	54 Haharina Avenue	Osnovianskyyi
917	46 Haharina Avenue No.1	Osnovianskyyi
918	46 Haharina Avenue No.2	Osnovianskyyi
919	46 Haharina Avenue No.3	Osnovianskyyi
920	40 Haharina Avenue	Osnovianskyyi
921	11 Holdberhivska Street	Osnovianskyyi
922	13 Holdberhivska Street	Osnovianskyyi
923	33 Chuhivska Street No.1	Osnovianskyyi
924	33 Chuhivska Street No.2	Osnovianskyyi
925	29 Chuhivska Street No.1	Osnovianskyyi
926	29 Chuhivska Street No.2	Osnovianskyyi
927	68 Haharina Avenue	Osnovianskyyi
928	66 Haharina Avenue	Osnovianskyyi
929	64 Haharina Avenue	Osnovianskyyi
930	72 Haharina Avenue No.1	Osnovianskyyi
931	72 Haharina Avenue No.2	Osnovianskyyi
932	72 Haharina Avenue No.3	Osnovianskyyi
933	72 Haharina Avenue No.4	Osnovianskyyi
934	72 Haharina Avenue No.5	Osnovianskyyi
935	72 Haharina Avenue No.6	Osnovianskyyi
936	72 Haharina Avenue No.7	Osnovianskyyi
937	72 Haharina Avenue No.8	Osnovianskyyi
938	72 Haharina Avenue No.9	Osnovianskyyi
939	72 Haharina Avenue No.10	Osnovianskyyi
940	72 Haharina Avenue No.11	Osnovianskyyi
941	72 Haharina Avenue No.12	Osnovianskyyi
942	72 Haharina Avenue No.13	Osnovianskyyi
943	74 Haharina Avenue	Osnovianskyyi
944	80 Haharina AvenueNo.1	Osnovianskyyi
945	80 Haharina Avenue No.2	Osnovianskyyi
946	80 Haharina Avenue No.3	Osnovianskyyi

947	86 Haharina Avenue	Osnovianskyi
948	84 Haharina Avenue	Osnovianskyi
949	27 Voskresenska Street	Osnovianskyi
950	23 Katerynynska Street	Osnovianskyi
951	1A Biblyka Street No.1	Industrialnyi
952	1A Biblyka Street No.2	Industrialnyi
953	1A Biblyka Street No.3	Industrialnyi
954	1B Biblyka Street No.1	Industrialnyi
955	1B Biblyka Street No.2	Industrialnyi
956	1B Biblyka Street No.3	Industrialnyi
957	1B Biblyka Street No.4	Industrialnyi
958	1V Biblyka Street No.1	Industrialnyi
959	1V Biblyka Street No.2	Industrialnyi
960	1V Biblyka Street No.3	Industrialnyi
961	1V Biblyka Street No.4	Industrialnyi
962	2A Biblyka Street No.1	Industrialnyi
963	2A Biblyka Street No.2	Industrialnyi
964	2A Biblyka Street No.3	Industrialnyi
965	2V Biblyka Street No.1	Industrialnyi
966	2V Biblyka Street No.2	Industrialnyi
967	2V Biblyka Street No.3	Industrialnyi
968	2D Biblyka Street No.1	Industrialnyi
969	2D Biblyka Street No.2	Industrialnyi
970	2D Biblyka Street No.3	Industrialnyi
971	2D Biblyka Street No.4	Industrialnyi
972	2D Biblyka Street No.5	Industrialnyi
973	2D Biblyka Street No.6	Industrialnyi
974	2D Biblyka Street No.7	Industrialnyi
975	2D Biblyka Street No.8	Industrialnyi
976	6A Myru Lane No.1	Industrialnyi
977	6A Myru Lane No.2	Industrialnyi
978	296B Moskovskyi Avenue No.1	Industrialnyi
979	296B Moskovskyi Avenue No.2	Industrialnyi
980	294 Moskovskyi Avenue No.1	Industrialnyi
981	294 Moskovskyi Avenue No.2	Industrialnyi
982	300 Moskovskyi Avenue No.1	Industrialnyi
983	300 Moskovskyi Avenue No.2	Industrialnyi
984	300 Moskovskyi Avenue No.3	Industrialnyi
985	300 Moskovskyi Avenue No.4	Industrialnyi
986	306 Moskovskyi Avenue No.1	Industrialnyi
987	306 Moskovskyi Avenue No.2	Industrialnyi
988	306 Moskovskyi Avenue No.3	Industrialnyi
989	302A Moskovskyi Avenue No.1	Industrialnyi
990	302A Moskovskyi Avenue No.2	Industrialnyi
991	302 Moskovskyi Avenue No.1	Industrialnyi
992	302 Moskovskyi Avenue No.2	Industrialnyi
993	286 Moskovskyi Avenue	Industrialnyi
994	288 Moskovskyi Avenue	Industrialnyi
995	290 Moskovskyi Avenue	Industrialnyi
996	292 Moskovskyi Avenue	Industrialnyi

997	298 Moskovskiy Avenue No.1	Industrialnyi
998	298 Moskovskiy Avenue No.2	Industrialnyi
999	298 Moskovskiy Avenue No.3	Industrialnyi
1000	298 Moskovskiy Avenue No.4	Industrialnyi

Annex 36. List of the areas of heating networks on the component “Reconstruction of heat networks”

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
1	Heat networks of section MK4826/3-MK4826/3-1CK, Peremohy Avenue	Shevchenkivskyi	current	heat carrier	underground	400	80
2	Heat networks of section MK4304-MK4303, Otakara Yarosha Street	Shevchenkivskyi	current	heat carrier	underground	600	120
3	Heat networks of section MK5223 to CHS 607/2 at the 54G Heroiv Pratsi Street	Moscovskiyi	current	heat carrier	underground	300	437
4	Heat networks of section MK4115-MK4301, Shekspira Street	Shevchenkivskyi	current	heat carrier	underground	600	170
5	Heat networks of section MK4200ACK-MK4201, Shekspira Street (output No. 2 of boiler room Pavlove pole on the 17 Shekspira Street)	Shevchenkivskyi	current	heat carrier	underground	700	195
6	Heat networks of section MK4706-MK4707, Peremohy Avenue	Shevchenkivskyi	current	heat carrier	underground	250	220
7	Heat networks of sections MK4525-MK4531, MK4526-MK4526/2, Dynamivska Street, Faninskyi Lane	Shevchenkivskyi	current	heat carrier	underground	200	194
						400	784

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
8	Heat networks of section MK3705-MK3706, Mokhnatska Street	Industrialnyi	current	heat carrier	underground	600	150
9	Heat networks of section MK6624-MK66HO42, Haharina Avenue.	Osnovianskyi	current	heat carrier	underground	600	105
10	Heat networks of section MK1129-MK1134, Moskovskyi Avenue, Bronenostsia Potomkin Street	Slobidskyi	current	heat carrier	underground	600	789
11	Heat networks of section from MK1233 to zh/b on 56 Moskovskyi Avenue	Osnovianskyi	new	heat carrier	underground	70	60
12	Jumper between terminals No. 1 and No. 2 of Slobidskyi district boiler room on the 2/1 Kostycheva Street	Slobidskyi	new	heat carrier	underground	600	50
13	Heat networks of section MK6316-MK6317, Fonvizina Street	Slobidskyi	current	heat carrier	underground	500	102
14	Heat networks of section from fixed support on the section from MK5203-MK5206A, Saltivske Highway	Moscovskyi	current	heat carrier	underground	800	1242

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
15	Heat networks of section MK1134/5-MK1227A, Zakhysnykiv Ukrainy Square micro-district	Slobidskyi	current	heat carrier	underground	300	230
16	Heat networks of section MK1802/2-MK1807, Moskovskyi Avenue	Slobidskyi	current	heat carrier	underground	600	633
17	Heat networks of section MK1807-MK1821, Vilenskyi Lane	Slobidskyi	current	heat carrier	aboveground	600	1250
18	Heat networks of section MK1821-MK5830, Bilostotskyi Lane	Moscovskyi	current	heat carrier	underground	600	867
19	Heat networks of section MK5830-MK5836B, Kamysheva Ivana Street	Moscovskyi	current	heat carrier	underground	600	747
20	Heat networks of sections MK5836Г- MK5837A, MK5837A-MK5837ACK2, Kamysheva Ivana Street, Kaunaskyi Lane.	Moscovskyi	current	heat carrier	underground	600	267
						400	330
21	Heat networks of section MK3232A-MK3237, Industrialnyi Avenue	Industrialnyi	current	heat carrier	underground	600	940
22	Heat networks of section MK3237-MK3243, Industrialnyi Avenue	Industrialnyi	current	heat carrier	underground	600	1225

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
23	Heat networks of section MK6206-MK6209, Morozova Street	Slobidskyi	current	heat carrier	underground	600	590
24	Heat networks of section MK6767-MK6768, Heroiv Stalinhrada Street	Slobidskyi	current	heat carrier	underground	400	220
25	Heat networks of section MK6762A-MK6764, Petra Hryhorenka Avenue	Slobidskyi	current	heat carrier	underground	500	120
						600	214
26	Heat networks of section MK6119БСК-MK6120, Lva Landau Avenue	Slobidskyi	current	heat carrier	underground	600	32
27	Jumper between heat line No. 66 and No. 14, Enerhetychna Street	Slobidskyi	new	heat carrier	underground	300	48
28	Heat networks of section MK1128A/2-MK1223, Dniprovska Street	Slobidskyi	current	heat carrier	underground	600	740
29	Heat networks of sections MK6516-MK6517, MK6515-MK6515A, Zabaikalskyi Lane	Slobidskyi	current	heat carrier	underground	500	450
30	Heat networks of section MK6612-MK6612Б, Kashtanova Street	Slobidskyi	current	heat carrier	aboveground	800	220

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
31	Heat networks of section MK2243/9-MK2243/11Б, Sadova Street	Kyivskyi	current	heat carrier	underground	250	300
32	Heat networks of section MK2240A-MK2311A, Shevchenka Street	Kyivskyi	current	heat carrier	underground	400	880
33	Heat networks of section MK2240A-MK2241, Bilhorodskyy Descent	Kyivskyi	current	heat carrier	underground	500	240
34	Heat networks of section MK2301-MK2304, Sliusarnyi Lane	Kyivskyi	current	heat carrier	underground	300	270
35	Heat networks from MK2987 to boiler room MZHK Internatsionalist, 70, Horianska Street with boiler house piping connection	Kyivskyi	new	heat carrier	underground	200	60
36	Heat networks of section MK2981CK6-MK2981CK5, Lesia Serdiuka Street	Kyivskyi	current	heat carrier	underground	800	46
37	Heat networks of sections MK2985-MK2985T, MK2985-MK2985TK40, Lesia Serdiuka Street, Druzhby Narodiv Street	Kyivskyi	current	heat carrier	underground	800	45
		Moscovskyyi				400	364

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
38	Heat networks of section MK9421-MK9403, Blahodatna Street	Nemyshlianskyi	current	heat carrier	underground	800	90
39	Heat networks of section MK9514/2-MK9514/2CK, Unetskyi Lane	Nemyshlianskyi	current	heat carrier	underground	400	28
40	Heat networks of section MK9407-MK9408, Khabarova Street	Nemyshlianskyi	current	heat carrier	underground	600	51
41	Heat networks of section MK9601-MK9602, Khabarova Street	Nemyshlianskyi	current	heat carrier	underground	600	116
42	Heat networks of section MK9603-MK9605, Khabarova Street, Traktorobudivnykiv Avenue	Nemyshlianskyi	current	heat carrier	underground	600	466
43	Heat networks of section MK9606-MK9607, Moskovskyi Avenue	Nemyshlianskyi	current	heat carrier	underground	600	147
44	Heat networks of section MK9801-MK9801CK, Petra Hryhorenka Avenue	Nemyshlianskyi	current	heat carrier	underground	600	133
45	Heat networks of section MK9803CK2-MK9804CK1, Petra Hryhorenka Avenue	Nemyshlianskyi	current	heat carrier	underground	600	156

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
46	Heat networks of sections MK5106A-MK5510, MK5106-MK5107, Hvardiitsiv-Shyronintsiv Street	Moscovskyi	current	heat carrier	underground	800	281
47	Heat networks of section MK5208-MK5209, Traktorobudivnykiv Avenue	Moscovskyi	current	heat carrier	underground	800	265
48	Heat networks of section MK5212-MK5215, Traktorobudivnykiv Avenue	Moscovskyi	current	heat carrier	underground	800	497
49	Heat networks of section MK5219CK-MK5220, Traktorobudivnykiv Avenue	Moscovskyi	current	heat carrier	underground	700	115
50	Heat networks of section MK5224-MK5225A, Heroiv Pratsi Street	Moscovskyi	current	heat carrier	underground	600	141
51	Heat networks of section MK2976/6T-MK5309, Akademika Pavlova Street	Kyivskyi	current	heat carrier	underground	600	46
52	Heat networks of section MK1138/5Б-MK1138/6, Moskovskyi Avenue	Moscovskyi	current	heat carrier	underground	200	30

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
53	Heat networks of section MK7812-HO22, Alushtynska Street	Kholodnohirskiyi	current	heat carrier	underground	1200	57
54	Heat networks of section MK8116-MK8119, Hryhorivske Highway	Novobavarskyi	current	heat carrier	underground	600	495
55	Heat networks CHS on the 4A Yuriiia Parashchuka Street from TK8120-1 to TK8120-1TK8	Novobavarskyi	current	heat carrier	underground	250	229
56	Heat networks of section MK1608-MK1608/25, Himnaziina Quay	Osnovianskyi	current	heat carrier	underground	400	975
57	Heat networks of section MK1228A-MK1231, Bohdana Khmelnytskoho Street	Slobidskyi	current	heat carrier	underground	600	51
		Osnovianskyi				600	397
58	Heat networks of section from CHP-3 to MK1111, Enerhetychna Street	Slobidskyi	current	heat carrier	underground	800	800
59	Heat networks of section MK5227-MK5227/1, Traktorobudivnykiv Avenue	Moscovskiyi	current	heat carrier	underground	400	464
60	Heat networks of section from MK5223 to CHS 606/2 on the 140G Traktorobudivnykiv Avenue	Moscovskiyi	current	heat carrier	underground	300	302

No. of item	Name of section, object, address	District name	New/current	Purpose of network	Type of network installation	DN of new pipeline	L of channel, m
61	Heat networks of section from MK5109 to CHS 615/1 on the 22V Hvardiitsiv-Shyronintsiv Street	Moscovskyi	current	heat carrier	underground	250	196
62	Heat networks of section MK5114-MK5114CK1, Hvardiitsiv-Shyronintsiv Street	Moscovskyi	current	heat carrier	underground	400	139
63	Heat networks of section MK5307A-MK5307A/1, Valentynivska Street	Moscovskyi	current	heat carrier	underground	400	428
64	Heat networks of section from MK5220 to CHS 606/1 on the 3V Svitla Street	Moscovskyi	current	heat carrier	underground	300	318
	TOTAL						24 097

Annex 37. List of the automation objects on the component “Implementation of systems of automation, dispatching and commercial electricity metering”.

ID No	Facility name, address	Administrative District of Kharkiv
1	BH №6, 2A Kostycheva Street	Slobidskyi
2	BH №4, 17Shekspira Street	Shevchenkivskyi
3	BH №5, 4 Artema Vedelia Street	Moskovskyi
4	PS №1-2, 15 Mefodiivska Street	Slobidskyi
5	PS №7-1, 1 Zemivska Street	Kholodnohirskyi
6	PS №7-2-3, Serafimovycha Street	Kholodnohirskyi
7	PS №6-2, 127A Haharina Avenue	Slobidskyi
8	PS №9-1, 18 Blahodatna Street	Nemshlianskyi
9	PS №4-1, 325A Klochkivska Street	Shevchenkivskyi
10	PS №2-1, 6 Shchedrynskyi Kvartal Street	Kyivskyi
11	PS №2-2, 27 Velykyi Danylivskyi Lane	Kyivskyi
12	PS №4-3, 2A Shatylivska Street	Shevchenkivskyi
13	PS, 4A Biolohichna Street	Osnovianskyi
14	BH "Piatykhatty", 1 Akademichna Street	Kyivskyi
15	CHP-3, 3 Enerhetychna Street	Nemshlianskyi
16	CHP-4, 275 Moskovskyi Avenue	Industrialnyi
17	CHS, 17B Industrialnyi Avenue	Industrialnyi
18	MK 3244, Kosarieva Street	Industrialnyi
19	AB, 3A Kosarieva Street	Industrialnyi
20	MK 3710, Rohanska Street	Industrialnyi
21	MK 3905 (YT 5), Velyka Kiltseva Street	Industrialnyi
22	MK 3906 (YT 6), Myru Street	Industrialnyi
23	MK 3909 (YT 9), Velyka Kiltseva Street	Industrialnyi
24	CHS 4/31, 89A Rybalka Street	Industrialnyi
25	CHS 4/32, 57A Biblyka Street	Industrialnyi
26	CHS " Obrii-2", 126A Velyka Kiltseva Street	Industrialnyi
27	CHS 4/3-A, 46B Hrytsevsia Street	Industrialnyi
28	CHS " Obrii-1", 3A Rostovska Street	Industrialnyi
29	CHS 4/33-A, 65A Oleksandrivskyi Avenue	Industrialnyi
30	CHS 4/33, 71A Oleksandrivskyi Avenue	Industrialnyi
31	CHS 4/34, 120A Oleksandrivskyi Avenue	Industrialnyi
32	BH №6, 11 Piatykhatska Street	Industrialnyi
33	CHS, 353 Lui Pastera Street	Industrialnyi
34	CHS 4/34A, 114A Oleksandrivskyi Avenue	Industrialnyi
35	CHS 4/39, 65A Plytkova Street	Industrialnyi
36	BH №3, 69 Mokhnatska Street	Industrialnyi
37	CHS 4/37, 1D Biblyka Street	Industrialnyi
38	CHS 4/30, 179A Lui Pastera Street	Industrialnyi
39	BH №2, 74A Myru Street	Industrialnyi
40	BH №1, 7A Elektrovozna Street	Industrialnyi
41	IHS, 19/85 Arkhitekтора Aloshyna Avenue	Industrialnyi
42	AB, 35 Arkhitekтора Aloshyna Avenue	Industrialnyi
43	PB, Henerala Momota Street	Industrialnyi
44	CHS (BH №5), 1A Tarkhova Street	Industrialnyi
45	MK-6612, 127A Haharina Avenue	Slobidskyi
46	MK-6609, 11 Akademia Volkova Street	Slobidskyi
47	CHS 4/16, 17A Fonvizina Street	Slobidskyi
48	BH, 9 Nesterova Street	Slobidskyi
49	CHS, 159A Haharina Avenue	Slobidskyi
50	CHS, 25 Kovtuna Street	Slobidskyi
51	CHS 4/14, 39/41 Heroiv Stalinhrada Avenue	Slobidskyi
52	CHS 4/29, 12/1 Tankopiia Street	Slobidskyi

53	CHS 4/28, 18B Petra Hryhorenka Avenue	Slobidskyi
54	CHS 4/5, 8/1 Fesenkivskyi Entry	Slobidskyi
55	CHS 4/6, 43B Haharina Avenue	Slobidskyi
56	CHS 4/12, 12/1 Kostycheva Street	Slobidskyi
57	CHS 4/24, 35/1 Petra Hryhorenka Avenue	Slobidskyi
58	CHS 4/25, 4A Zhasminovyi Boulevard	Slobidskyi
59	CHS 4/27, 125/3 Niutona Street	Slobidskyi
60	CHS 4/11, 5/1 Zernovyi Lane	Slobidskyi
61	CHS 4/57, 171/1 Haharina Avenue	Slobidskyi
62	CHS 4/24A, 3A Zhasminovyi Boulevard	Slobidskyi
63	CHS, 122 Moskovskyi Avenue	Slobidskyi
64	CHS 4/15, 9A Molochna Street	Slobidskyi
65	CHS 4/28A, 18B Petra Hryhorenka Avenue	Slobidskyi
66	CHS 4/40, 55/1 Zernova Street	Slobidskyi
67	CHS 4/13, 4/2 Zernovyi Lane	Slobidskyi
68	BH, 199A Haharina Avenue	Slobidskyi
69	CHS 4/27A, 148B Heroiv Stalinhrada Avenue	Slobidskyi
70	BH, 87 Polova Street	Slobidskyi
71	BH, 16 Serechnouralskyi Lane	Slobidskyi
72	MK 9502 (MK 502, 3502), Yuvileinyi Avenue	Nemysylianskyi
73	MK 9510 (MK 510, 3510), Yurieva Boulevard	Nemysylianskyi
74	MK 9515 (MK 515, 3515), Kharkivskykh Dyvizii Street	Nemysylianskyi
75	MK 9406, 2 Khabarova Street	Nemysylianskyi
76	CHS-4/625, 33A Amosova Street	Nemysylianskyi
77	CHS 4/10, 23A Olympyiskaia Street	Nemysylianskyi
78	CHS, 2B Osypenko Street	Nemysylianskyi
79	CHS, 32 Bohdana Khmelnytskoho Boulevard	Nemysylianskyi
80	CHS 4/1, 19/1 Yurieva Boulevard	Nemysylianskyi
81	CHS 4/18, 14/1A Stadionnyi Passage	Nemysylianskyi
82	CHS 4/9, 6/6 Stadionnyi Passage	Nemysylianskyi
83	The building of power service, 6/8 Stadionnyi Passage	Nemysylianskyi
84	CHS 4/3, 7/2 Petra Hryhorenka Avenue	Nemysylianskyi
85	CHS 4/4, 11A Rybalka Street	Nemysylianskyi
86	CHS 4/7, 12/1 Rybalka Street	Nemysylianskyi
87	CHS 4/35, 33A Rybalka Street	Nemysylianskyi
88	CHS 4/36, 42A Rybalka Street	Nemysylianskyi
89	CHS, 112A Saltivske Highway	Nemysylianskyi
90	CHS 4/38, 47G Rybalka Street	Nemysylianskyi
91	CHS 4/624, 5A Amosova Street	Nemysylianskyi
92	CHS 4/625, 23A Amosova Street	Nemysylianskyi
93	CHS 4/626, 48A Amosova Street	Nemysylianskyi
94	CHS 4/624A, 6A Amosova Street	Nemysylianskyi
95	AB, 11/1 Tankopiiia Street	Nemysylianskyi
96	BH, 7 Hryshchenka Street	Nemysylianskyi
97	BH, 82 Kulinichivska Street	Nemysylianskyi
98	MK 4808 (MK8), Dzhankoiska Street	Shevchenkivskyi
99	MK 4938 (MK 38), Samarska Street	Shevchenkivskyi
100	MK 4160, Danylevskoho Street	Shevchenkivskyi
101	MK 4802 (MK 2), Novhorodska Street	Shevchenkivskyi
102	MK 4803, 203 Klochkivska Street	Shevchenkivskyi
103	MK 4950 (MK 50), Shatylyivska Street	Shevchenkivskyi
104	MK 4623, Pavlivskyi Square	Shevchenkivskyi
105	HP, Danylevskoho Street	Shevchenkivskyi
106	MK 4215, 19A Derevianka Street	Shevchenkivskyi
107	BH №1, 77 Peremohy Avenue	Shevchenkivskyi
108	BH №6, 1 Frontovykyv Boulevard	Shevchenkivskyi
109	BH №2, 77 Peremohy Avenue	Shevchenkivskyi
110	BH, 152 Derbentska Street	Shevchenkivskyi
111	IHS 2/54 (BH), 38 Danylevskoho Street	Shevchenkivskyi
112	IHS 2/50 (BH), 8 Klasychnyi Lane	Shevchenkivskyi

113	IHS 2/52 (BH), 1 Chychybabina Street	Shevchenkivskyi
114	IHS 2/53 (BH), 3 Chychybabina Street	Shevchenkivskyi
115	BH, 19 Rohatynskyi Lane	Shevchenkivskyi
116	CHS 2/49 (BH), 366 Klochkivska Street	Shevchenkivskyi
117	CHS 2/43 (BH), 7 Myrna Street	Shevchenkivskyi
118	MU, 2 Chichibabina Street	Shevchenkivskyi
119	BH, 113 Armiiska Street	Shevchenkivskyi
120	BH, 61/63 Klochkivska Street	Shevchenkivskyi
121	BH, 22 Ivanovska Street	Shevchenkivskyi
122	CHS 2/2, 53B Dvadtsiat Tretoho Serpnia Street	Shevchenkivskyi
123	CHS 2/4, 6A Dvadtsiat Tretoho Serpnia Street	Shevchenkivskyi
124	CHS 2/6, 32A Tsilynohradska Street	Shevchenkivskyi
125	CHS 2/7, 3A Derevianka Street	Shevchenkivskyi
126	CHS 2/9A, 23A Kosmichna Street	Shevchenkivskyi
127	CHS 2/11, 2 Yesenina Street	Shevchenkivskyi
128	CHS 2/13, 9A Starytskoho Street	Shevchenkivskyi
129	CHS 2/18, 57 Peremohy Avenue	Shevchenkivskyi
130	CHS 2/19, 50 Peremohy Avenue	Shevchenkivskyi
131	CHS 2/21, 24A Liudviha Svobody Avenue	Shevchenkivskyi
132	CHS 2/22, 19 Derevianka Street	Shevchenkivskyi
133	CHS 2/23, 7 Derevianka Street	Shevchenkivskyi
134	CHS 2/25, 7 Chychybabina Street	Shevchenkivskyi
135	CHS 2/26, 9A Liapunova Street	Shevchenkivskyi
136	CHS 2/28, 23 Akhsarova Street	Shevchenkivskyi
137	CHS 2/29, 101 Klochkivska Street	Shevchenkivskyi
138	MU, 14A Kosmichna Street	Shevchenkivskyi
139	CHS 2/35, 59A Peremohy Avenue	Shevchenkivskyi
140	CHS 2/38, 337A Klochkivska Street	Shevchenkivskyi
141	CHS 2/17A, 65 Peremohy Avenue	Shevchenkivskyi
142	CHS 2/1, 18A Sumhaitaska Street	Shevchenkivskyi
143	CHS 2/24, 40 Derevianka Street	Shevchenkivskyi
144	MU, 16 Kultury Street	Shevchenkivskyi
145	CHS 2/3, 80A Naukovyi Avenue	Shevchenkivskyi
146	CHS 2/9, 4B Novhorodska Street	Shevchenkivskyi
147	CHS 2/10, 197 Klochkivska Street	Shevchenkivskyi
148	CHS 2/14, 35G Liudviha Svobody Street	Shevchenkivskyi
149	CHS 2/15, 62 Peremohy Avenue	Shevchenkivskyi
150	CHS 2/16, 70 Peremohy Avenue	Shevchenkivskyi
151	CHS 2/17, 65 Peremohy Avenue	Shevchenkivskyi
152	CHS 2/20, 36A Liudvyha Svobody Street	Shevchenkivskyi
153	BH, 62 Semena Kuznetsia Street	Shevchenkivskyi
154	CHS 2/30, 237 Klochkivska Street	Shevchenkivskyi
155	AB (CHS2/31), 49 Shatylivska Street	Shevchenkivskyi
156	BH, 5A Dynamovskaia Street	Shevchenkivskyi
157	BH, 14 Bukova Street	Shevchenkivskyi
158	BH, 20 Bukova Street	Shevchenkivskyi
159	MK-4592, 77/79 Sumska Street	Shevchenkivskyi
160	MK 2976 (YT-1), Valentynivska Street	Kyivskyi
161	MK 2960 (MK-60), Matiushenka Street	Kyivskyi
162	MK 2987, Lesia Serdiuka Street	Kyivskyi
163	BH, 12 Akademika Proskury Street	Kyivskyi
164	BH, 8 Akademika Proskury Street	Kyivskyi
165	BH, 2A Skadovskoho Lane	Kyivskyi
166	BH, 301 Shevchenka Street	Kyivskyi
167	BH, 16 Chernyshevskoho Street	Kyivskyi
168	BH, 180 Shevchenka Street	Kyivskyi
169	BH Northern-2, 12 Metrobudivnykiv Street	Kyivskyi
170	BH, CHS Northern-4, 25A Metrobudivnykiv Street	Kyivskyi
171	BH Northern-3, 13 Metrobudivnykiv Street	Kyivskyi
172	MU, 5/2 Studentska Street	Kyivskyi

173	BH, 27A Pomirky Street	Kyivskyyi
174	Boiler, Housing Department-3, 85 Chernyshevskoho Street	Kyivskyyi
175	BH, 70 Pomirky Street	Kyivskyyi
176	BH, 222 Shevchenka Street	Kyivskyyi
177	BH, 233A Shevchenka Street	Kyivskyyi
178	BH, 38 Belhorodskoe Highway	Kyivskyyi
179	BH, 10A Saperna Street	Kyivskyyi
180	BH, 23 Henerala Udovychenka Street	Kyivskyyi
181	BH, 49 MZHK Internatsionalist	Kyivskyyi
182	BH, 24 Henerala Udovychenka Street	Kyivskyyi
183	BH, 1 Akademyka Proskury Street	Kyivskyyi
184	BH, 5/6 Studentska Street	Kyivskyyi
185	BH, 4A Ostrohradskyyi Lane	Kyivskyyi
186	BH, 104 Pushkinska Street	Kyivskyyi
187	BH, 29 Budivelnna Street	Kyivskyyi
188	BH, 165 Shevchenka Street	Kyivskyyi
189	BH "Kutuzovka", 1 Teplychna Street	Kyivskyyi
190	CHS 5/7, 10 Darvina Street	Kyivskyyi
191	CHS 519, 7A Vladyslava Zubenka Street	Kyivskyyi
192	CHS, 7A Matiushenka Street	Kyivskyyi
193	CHS/BH Northern-5, 281 Druzhby Narodiv Street	Kyivskyyi
194	CHS Northern-3, 13 Metrobudivnykiv Street	Kyivskyyi
195	CHS Northern-2, 12 Metrobudivnykiv Street	Kyivskyyi
196	CHS 522/2, 12E Heroiv Pratsi Street	Kyivskyyi
197	CHS 522/1, 13G Valentynivska Street	Kyivskyyi
198	CHS, 3A Pozdovzhnia Street	Kyivskyyi
199	CHS-2, 6 Staroshyshkivskyyi Entry	Kyivskyyi
200	CHS, 7 Elektroinstrumentalnyi Passage	Kyivskyyi
201	CHS, 12V Kurchatova Avenue CW	Kyivskyyi
202	CHS, 12V Kurchatova Avenue HW	Kyivskyyi
203	CHS, 7V Hatseva Street	Kyivskyyi
204	BH, 27 Pomirky Street	Kyivskyyi
205	MK 5106 (MK 6), Hvardiitsiv-Shyronintsiv Street	Moskovskyyi
206	MK 5116 (MK 16), Hvardiitsiv-Shyronintsiv Street	Moskovskyyi
207	MK-5909 (MK-9), Yuvileinyi Avenue	Moskovskyyi
208	MK-5309, MK, 134/16 Akademyka Pavlova Avenue	Moskovskyyi
209	MK-5207, 86/137 Traktorobudivnykiv Avenue	Moskovskyyi
210	MK-5211 AB, Traktorobudivnykiv Avenue	Moskovskyyi
211	MU, 13 Adygeiskyyi Lane	Moskovskyyi
212	CHS 601, 86A Yuvileinyi Avenue	Moskovskyyi
213	AB, 13 Svitla Street	Moskovskyyi
214	BH, 104 Krasnodarska Street	Moskovskyyi
215	BH Northern-1, 9A Dzherelna Street	Moskovskyyi
216	CHS Northern-1, 9A Dzherelna Street	Moskovskyyi
217	CHS 602/1, 67A Yuvileinyi Avenue	Moskovskyyi
218	CHS 602/2, 75V Yuvileinyi Avenue	Moskovskyyi
219	CHS 603/1, 59D Yuvileinyi Avenue	Moskovskyyi
220	CHS 603/2, 63B Yuvileinyi Avenue	Moskovskyyi
221	CHS 604/1, 70A Yuvileinyi Avenue	Moskovskyyi
222	CHS 604/2, 139D Saltivske Highway	Moskovskyyi
223	CHS 605/1, 77A Traktorobudivnykiv Avenue	Moskovskyyi
224	CHS 605/2, 65B Traktorobudivnykiv Avenue	Moskovskyyi
225	IHS, 2A Poznanska Street	Moskovskyyi
226	HS (BH), 12 Feierbakha Street	Moskovskyyi
227	BH, 30 Akademyka Pavlova Street	Moskovskyyi
228	CHS Budmistechno-1, 35D Vladyslava Zubenka Street	Moskovskyyi
229	CHS Budmistechno-2, 46D Valentynivska Street	Moskovskyyi
230	CHS 535-A, 126A Traktorobudivnykiv Avenue	Moskovskyyi
231	CHS 614, 1 Pysemaskoho Lane	Moskovskyyi
232	CHS 615/1, 22V Hvardiitsiv-Shyronintsiv Street	Moskovskyyi

233	CHS 615/2, 41A Hvardiitsiv-Shyronintsiv Street	Moskovskyyi
234	CHS 616, 27A Hvardiitsiv-Shyronintsiv Street	Moskovskyyi
235	CHS 520/1, 24V Valentynivska Street	Moskovskyyi
236	CHS 520/2, 132D Akadematika Pavlova Street	Moskovskyyi
237	CHS 656, 40A Yuvileinyi Avenue	Moskovskyyi
238	CHS 521/1, 50E Hvardiitsiv-Shyronintsiv Street	Moskovskyyi
239	CHS 521/2, 140E Akadematika Pavlova Street	Moskovskyyi
240	CHS 524/1, 73E Hvardiitsiv-Shyronintsiv Street	Moskovskyyi
241	CHS 524/2, 12A Lesia Serdiuka Street	Moskovskyyi
242	CHS 531/1, 37E Heroiv Pratsi Street	Moskovskyyi
243	CHS 531/2, 34E Lesia Serdiuka Street	Moskovskyyi
244	CHS 533/1, 47D Heroiv Pratsi Street	Moskovskyyi
245	CHS 533/2, 44A Lesia Serdiuka Street	Moskovskyyi
246	CHS 606/1, 3V Svitla Street	Moskovskyyi
247	CHS 606/2, 140G Traktorobudivnykiv Avenue	Moskovskyyi
248	CHS 607/3, 148A Traktorobudivnykiv Avenue	Moskovskyyi
249	CHS 607/1, 83 Zh Traktorobudivnykiv Avenue	Moskovskyyi
250	CHS 607/2, 58G Heroiv Pratsi Street	Moskovskyyi
251	CHS, 6/32 Avtostradna Street	Moskovskyyi
252	CHS, 38 Batytskoho Street	Moskovskyyi
253	CHS, 52 Khalturina Street	Moskovskyyi
254	BH, 27A Akadematika Pavlova Street	Moskovskyyi
255	BH, 20 Akadematika Pavlova Street	Moskovskyyi
256	MU (BH), 67 Saltivske Highway	Moskovskyyi
257	CHS, 46 Akadematika Pavlova Street	Moskovskyyi
258	CHS, 9 Poperechna Street	Moskovskyyi
259	CHS, 44 Akadematika Pavlova Street	Moskovskyyi
260	CHS 531/3, 31A Heroiv Pratsi Street	Moskovskyyi
261	CHS (BH), 8 Serhiivska Street	Moskovskyyi
262	BH, 55 Traktorobudivnykiv Avenue	Moskovskyyi
263	BH, 228A Druzhby Narodiv Street	Moskovskyyi
264	BH, 185 Moskovskyyi Avenue	Moskovskyyi
265	BH, 73V Saltivske Highway	Moskovskyyi
266	BH, 73G Saltivske Highway	Moskovskyyi
267	BH, 40 Tiurinska Street	Moskovskyyi
268	AB, 4A Yurii Parashchuka Street	Novobavarskyyi
269	CHS 3/9, 4 Yurii Parashchuka Street	Novobavarskyyi
270	Workroom, 14 Bolharskyyi Lane	Novobavarskyyi
271	Service rooms, 171 Poltavskyyi Shliakh Street	Novobavarskyyi
272	Service rooms, 10 Dudynskoi Street	Novobavarskyyi
273	AB, 60 Planova Street	Novobavarskyyi
274	BH, 118 Novo-Bavarskyyi Avenue	Novobavarskyyi
275	BH, 90 Kontorska Street	Novobavarskyyi
276	BH, 7 Bavarska Street	Novobavarskyyi
277	BH, 19 Piatysotnytska Street	Novobavarskyyi
278	BH, 2 Kontorska Street	Novobavarskyyi
279	BH, 18 Marinska Street	Novobavarskyyi
280	BH, 5 Metiznyi Lane	Novobavarskyyi
281	BH, 63A Seminarska Street	Novobavarskyyi
282	BH, 23A Svitlanivska Street	Novobavarskyyi
283	BH, 77 Novo-Bavarskyyi Avenue	Novobavarskyyi
284	BH, 90 Novo-Bavarskyyi Avenue	Novobavarskyyi
285	CHS 3/7, 6A Petra Bolbochana Street	Novobavarskyyi
286	BH, 2/4 Seminarska Street	Novobavarskyyi
287	BH, 57A Seminarska Street	Novobavarskyyi
288	BH, 2/3 Volodymyrska Street	Novobavarskyyi
289	BH, 37 Hvardiitsiv-Zaliznychnykiv Street	Novobavarskyyi
290	BH, 11 Velyka Honcharivska Street	Novobavarskyyi
291	BH, 7 Konieva Street	Novobavarskyyi
292	BH, 12 Konieva Street	Novobavarskyyi

293	BH, 5/7 Karpivskiy Lane	Novobavarskyi
294	BH, 12 Kashyrskoho Street	Novobavarskyi
295	BH, 6 Kontorska Street	Novobavarskyi
296	BH, 9 Kontorska Street	Novobavarskyi
297	BH, 11 Kontorska Street	Novobavarskyi
298	BH, 12 Kontorska Street	Novobavarskyi
299	BH, 26 Kontorska Street	Novobavarskyi
300	BH, 46/5 Seminarska Street	Novobavarskyi
301	BH, 1 Odoievskiy Lane	Novobavarskyi
302	BH, 6/10 Polzunova Lane	Novobavarskyi
303	BH, 5 Svyntarenka-Petra Street	Novobavarskyi
304	BH, 19 Poltavskiy Shliakh Street	Novobavarskyi
305	BH, 14 Stoliarniy Lane	Novobavarskyi
306	BH, 25 Yaroslavska Street	Novobavarskyi
307	CHS, 5 Hrushevskoho Street	Novobavarskyi
308	BH, 53/55 Poltavskiy Shliakh Street	Novobavarskyi
309	BH, 11/13 Novo-Bavarskyi Avenue	Novobavarskyi
310	BH, 53 Lomonosova Street	Novobavarskyi
311	BH, 17 Perovskoi Street	Novobavarskyi
312	BH, 17A Poltavskiy Shliakh Street	Novobavarskyi
313	BH, 8 Peremozhtsiv Street	Novobavarskyi
314	BH, 86 Hryhorivske Highway	Novobavarskyi
315	BH, 177A Poltavskiy Shliakh Street	Novobavarskyi
316	BH, 8 Bulvarna Street	Novobavarskyi
317	BH, 32 Seminarska Street	Novobavarskyi
318	BH, 99 Novo-Bavarskyi Avenue	Novobavarskyi
319	BH, 175 Poltavskiy Shliakh Street	Novobavarskyi
320	BH, 9 Kataieva Street	Novobavarskyi
321	BH, 13 Marka Bernesa, Street	Novobavarskyi
322	BH, 20 Liubovi Maloi Avenue	Novobavarskyi
323	BH, 42 Timiriazieva Street	Novobavarskyi
324	BH, 60A Profspilkoviy Boulevard	Novobavarskyi
325	CHS, 170 Moskalivska Street	Novobavarskyi
326	CHS, 3A Vlasenka Street	Novobavarskyi
327	CHS, 4A Mykoly Bazhana Street	Novobavarskyi
328	CHS, 10A Mykoly Bazhana Street	Novobavarskyi
329	CHS, 37/39 Krushelnytskoho Street	Industrialnyi
330	BH, 119 Poltavskiy Shliakh Street	Novobavarskyi
331	CHS, 6 Dudynskoi Street	Novobavarskyi
332	CHS, 21 Selianska Street	Novobavarskyi
333	CHS, 2 Bolharskyi Lane	Novobavarskyi
334	BH, 22 Marinska Street	Novobavarskyi
335	BH, 22 Moskalivska Street	Novobavarskyi
336	BH, 14 Pestrikova Street	Novobavarskyi
337	BH, 47 Pushkarivska Street	Novobavarskyi
338	BH, 88 Seminarska Street	Novobavarskyi
339	BH, 51 Liubovi Maloi Avenue	Novobavarskyi
340	BH, 14/16 Bondarivska Street	Novobavarskyi
341	BH, 143 Seminarska Street	Novobavarskyi
342	BH, 2A Yudina Street	Novobavarskyi
343	BH, 17 Konieva Street	Novobavarskyi
344	BH, 3 Karpivska Street	Novobavarskyi
345	BH, 113 Valerianivska Street	Novobavarskyi
346	BH, 45 Liubovi Maloi Avenue	Novobavarskyi
347	BH, 93A Kontorska Street	Novobavarskyi
348	BH, 12 Chaplyhina Street	Novobavarskyi
349	BH, 18 Kybalchycha Street	Novobavarskyi
350	BH, 3 Bavarska Street	Novobavarskyi
351	BH, 57B Seminarska Street	Novobavarskyi
352	BH, 36 Moskalivska Street	Novobavarskyi

353	BH, 92 Moskalivska Street	Novobavarskyi
354	BH, 20 Kataieva Street	Novobavarskyi
355	CHS, 12/14 Marinska Street	Novobavarskyi
356	BH, 66 Novoprymiska Street	Novobavarskyi
357	BH, 46 Seminarska Street	Novobavarskyi
358	BH, 42A Vrubelia Street	Novobavarskyi
359	BH, 3/5 Poltavskyi Shliakh Street	Novobavarskyi
360	BH, 48 Konotopska Street	Novobavarskyi
361	BH, 22 Mendelieieva Street	Novobavarskyi
362	BH, 17 Hertsenia Street	Novobavarskyi
363	BH, 4 Liubovi Maloi Avenue	Novobavarskyi
364	BH, 99 Moskalivska Street	Novobavarskyi
365	BH, 1 Lizy Chaikynoi Lane	Novobavarskyi
366	BH, 4 Stantsiina Street	Novobavarskyi
367	IHS, 18 Tytarenkivskyi Lane	Novobavarskyi
368	MK 7830 (MK 30), Serafymovycha Street	Kholodnohirskyi
369	MK 7833 (MK 33), Velyka Panasivska Street	Kholodnohirskyi
370	MK 7802 (MK 2), Feeway Kharkiv-Sumy	Kholodnohirskyi
371	MK 7101 (MK 4/1), Verkhnia Hyivska Street	Kholodnohirskyi
372	MK 7107 (MK 4/7), Nyzhnia Hyivska Street	Kholodnohirskyi
373	MK 7835, Lozivska Street	Kholodnohirskyi
374	MK 7811, Putyvskyi Lane	Kholodnohirskyi
375	MK 7803, Shchaslyva Street	Kholodnohirskyi
376	CHS, 222 Velyka Panasivska Street	Kholodnohirskyi
377	CHS 3/3, 28B Zolochivska Street	Kholodnohirskyi
378	BH, 2 Kashuby Street	Kholodnohirskyi
379	CHS 3/21, 6 Dmytrivska Street	Kholodnohirskyi
380	HS, 4 Pershyi Tahanskyi Lane	Kholodnohirskyi
381	BH, 190/2 Poltavskyi Shliakh Street	Kholodnohirskyi
382	BH, 20 Malynovskoho Street	Kholodnohirskyi
383	HS, 1 Riznykivskyi Lane	Kholodnohirskyi
384	HS, 7 Tretii Tahanskyi Lane	Kholodnohirskyi
385	HS (BH), 3 Kandaurova Street	Kholodnohirskyi
386	BH, 90 Poltavskyi Shliakh Street	Kholodnohirskyi
387	IHS (BH), 114 Poltavskyi Shliakh Street	Kholodnohirskyi
388	HS (BH), 118 Poltavskyi Shliakh Street	Kholodnohirskyi
389	BH, 41 Kurylivska Street	Kholodnohirskyi
390	BH, 65 Ozerianska Street	Kholodnohirskyi
391	BH, 35 Novyi Pobut Street	Kholodnohirskyi
392	BH, 11 Volonterska Street	Kholodnohirskyi
393	HS (BH), 48 Chobotarska Street	Kholodnohirskyi
394	CHS, 7 Berkosa Street	Kholodnohirskyi
395	CHS 3/18, 9 Ihoria Muratova Street	Kholodnohirskyi
396	IHS, 5 Ozerianska Street	Kholodnohirskyi
397	HS, 7/9 Terekhivska Street	Kholodnohirskyi
398	BH, 7 Ihoria Muratova Street	Kholodnohirskyi
399	HS, 8 Terekhivska Street	Kholodnohirskyi
400	HS, 40 Illinska Street	Kholodnohirskyi
401	BH, 15 Blahovishchenska Street	Kholodnohirskyi
402	BH, 23 Kamianets-Podolska Street	Kholodnohirskyi
403	BH, 4 Nizhynska Street	Kholodnohirskyi
404	CHS (BH), 110 Poltavskyi Shliakh Street	Kholodnohirskyi
405	HS, 190/9 Poltavskyi Shliakh Street	Kholodnohirskyi
406	BH, 17 Blahovishchenska Street	Kholodnohirskyi
407	BH, 20 Sochynska Street	Kholodnohirskyi
408	Warehouse, 29A Kotsarska Street	Kholodnohirskyi
409	CHS 3/11, 52 Pashchenkivska Street	Kholodnohirskyi
410	HS, 5 Malynovskoho Street	Kholodnohirskyi
411	BH, 30 Blahovishchenska Street	Kholodnohirskyi
412	HS (BH), 18 Yaroslavska Street	Kholodnohirskyi

413	BH, 11 Ashhabadskyi Lane	Kholodnohirskyi
414	BH, 83 Sochynska Street	Kholodnohirskyi
415	BH, 2A Vitebska Street	Kholodnohirskyi
416	BH, 36 Poltavskyi Shliakh Street	Kholodnohirskyi
417	BH, 13 Zh Blahovishchenska Street	Kholodnohirskyi
418	BH, 63 Osetynska Street	Kholodnohirskyi
419	BH, 40A Pskovska Street	Kholodnohirskyi
420	BH, 22/24 Malopanasivska Street	Kholodnohirskyi
421	HS (BH), 3 Donbasivskyi Lane	Kholodnohirskyi
422	BH, 10 Vosmoho Bereznia Street	Kholodnohirskyi
423	BH, 29 Velyka Panasivska Street	Kholodnohirskyi
424	CHS 3/2, 68 Illinska Street	Kholodnohirskyi
425	CHS 3/1, 152B Poltavskyi Shliakh Street	Kholodnohirskyi
426	CHS 3/9, 3 Kholodnohirska Street	Kholodnohirskyi
427	CHS 3/8, 21 Shchaslyva Street	Kholodnohirskyi
428	CHS 3/14, 32 Blahovishchenska Street	Kholodnohirskyi
429	CHS 3/10, 28 Ihoria Muratova Street	Kholodnohirskyi
430	CHS 3/19, 45 Chobotarska Street	Kholodnohirskyi
431	CHS, 193 Velyka Panasivska Street	Kholodnohirskyi
432	CHS 3/20, 49 Chobotarska Street	Kholodnohirskyi
433	BH, 19/1 Zaliutynska Street	Kholodnohirskyi
434	BHs No1, No2, 45 Kandaurova Street	Kholodnohirskyi
435	BH, 5 Verkhovskyi Lane	Kholodnohirskyi
436	BH, 35 Novyi Pobut Street	Kholodnohirskyi
437	HS (BH), 19 Kotsarska Street	Kholodnohirskyi
438	HS (BH), 54 Kotsarska Street	Kholodnohirskyi
439	BH, 2/15 Blahovishchenska Street	Kholodnohirskyi
440	HS, 46 Poltavskyi Shliakh Street	Kholodnohirskyi
441	BH, 2/2 Yaroslavska Street	Kholodnohirskyi
442	BH, 10 Yaroslavska Street	Kholodnohirskyi
443	BH, 205 Velyka Panasivska Street	Kholodnohirskyi
444	IHS (BH), 34 Chobotarska Street	Kholodnohirskyi
445	HS, 24A Poltavskyi Shliakh Street	Kholodnohirskyi
446	HS (BH), 190 Poltavskyi Shliakh Street	Kholodnohirskyi
447	CHS 3/15, 71/1 Taborova Street	Kholodnohirskyi
448	CHS 3/17, 8 Plastychnyi Lane	Kholodnohirskyi
449	HS (PS), 24/26 Blahovishchenska Street	Kholodnohirskyi
450	Warehouse (PS), 27/29 Illinska Street	Kholodnohirskyi
451	CHS 3/16, 11 Druhyi Tahanskyi Lane	Kholodnohirskyi
452	BH, 12 Baltiiska Street	Kholodnohirskyi
453	BH, 67 Velyka Panasivska Street	Kholodnohirskyi
454	BH, 3 Zaliznychna Street	Kholodnohirskyi
455	HS, 7 Kashuby Street	Kholodnohirskyi
456	HS, 4 Kashuby Street	Kholodnohirskyi
457	BH, 14/1 Tahanska Street	Kholodnohirskyi
458	BH, 10 Blahovishchenska Street	Kholodnohirskyi
459	BH, 41/43 Andriivska Street	Kholodnohirskyi
460	HS, 4 Hrusheva Street	Kholodnohirskyi
461	CHS 3/4, 17 Donbasivskyi Lane	Kholodnohirskyi
462	BH, 27/5 Berkosa Street	Kholodnohirskyi
463	BH, 3 Afanasiivska Street	Kholodnohirskyi
464	BH, 17 Yaroslavska Street	Kholodnohirskyi
465	BH, 60A Kotsarska Street	Kholodnohirskyi
466	CHS, 20 Pushkina Street (Solonitsevka)	Kholodnohirskyi
467	CHS, 5 Sumskyi Shliakh Street (Solonitsevka)	Kholodnohirskyi
468	CHS, 3 Makarenka Street (Podvirky)	Kholodnohirskyi
469	CHS, 3 Molodizhna Street (Pesochin)	Kholodnohirskyi
470	CHS, Mobil, 7A Kvartalnyi Lane (Pesochin)	Kholodnohirskyi
471	BH, 25A Volodymyra Usenka Lane	Kholodnohirskyi
472	MK 1619A (19A), 13/2 Kooperatyvna Street	Osnovianskyi

473	MK 1608, 1606 (MK8), Himnaziina Quay	Osnovianskyi
474	PS1-1, 12 Kooperatyvna Street	Osnovianskyi
475	CHS, 4 Makiivska Street	Osnovianskyi
476	BH, 3 Poltavska Street	Osnovianskyi
477	BH, 30 Hrekivska Street	Osnovianskyi
478	BH, 334 Haharina Avenue	Osnovianskyi
479	BH, 9A Sokhora Street	Osnovianskyi
480	BH, 5A Sokhora Street	Osnovianskyi
481	BH, 89 Dostoievskoho Street	Osnovianskyi
482	BH, 250 Haharina Avenue	Osnovianskyi
483	BH, 314A Haharina Avenue	Osnovianskyi
484	BH, 300 Haharina Avenue	Osnovianskyi
485	BH, 70 Holdberhivska Street	Osnovianskyi
486	BH, 98/100 Holdberhivska Street	Osnovianskyi
487	BH, 36/1 Sydorenkivska Street	Osnovianskyi
488	BH, 16 Myrhorodska Street	Osnovianskyi
489	BH, 244 Haharina Avenue	Osnovianskyi
490	BH, 82 Kharkivska Street	Osnovianskyi
491	BH, 302 Haharina Avenue	Osnovianskyi
492	BH, 7/9 Tsyharivskiy Lane	Osnovianskyi
493	CHS, 4 Azerbaidzhanska Street	Osnovianskyi
494	CHS 3/6, 174A Haharina Avenue	Osnovianskyi
495	CHS 3/5, 5A Moskalivska Street	Osnovianskyi
496	CHS 3/23, 62A Haharina Avenue	Osnovianskyi
497	CHS 3/30, 7A Voskresenska Street	Osnovianskyi
498	MU, 12 Kuznechna Street	Osnovianskyi
499	BH, 262 Haharina Avenue	Osnovianskyi
500	BH, 19 Ternopilska Street	Osnovianskyi
501	BH, 5 Karierna Street	Osnovianskyi
502	BH, 57/59 Moskalivska Street	Osnovianskyi
503	BH, 1 Biolohichniy Lane	Osnovianskyi
504	BH, 22A Dostoievskoho Street	Osnovianskyi
505	CHS, 26 Valdaivskiy Lane	Osnovianskyi
506	BH, 1A Biolohichna Street	Osnovianskyi
507	PS, 22V Dostoievskoho Street	Osnovianskyi
508	BH, 266 Haharina Avenue	Osnovianskyi
509	BH, 20A Merefianske Highway	Osnovianskyi
510	BH, 25 Kvitkynska Street	Osnovianskyi
511	BH, 31 Haharina Avenue	Osnovianskyi
512	BH, 42 Hordiienkivska Street	Osnovianskyi
513	BH, 1 Lymanskyi Lane	Osnovianskyi
514	BH, 112 Holdberhivska Street	Osnovianskyi
515	CHS, 16 Litakova Street	Osnovianskyi
516	BH, 14 Dostoievskoho Street	Osnovianskyi
517	BH, 1 Dostoievskoho Street	Osnovianskyi
518	AB No.1, 11 Mefodiivska Street	Slobidskyi
519	PB, 11 Mefodiivska Street	Slobidskyi
520	AB No.2, 11 Mefodiivska Street	Slobidskyi
521	AB, 147 Plekhanivska Street	Slobidskyi
522	AB, 9 Enerhetychna Street	Nemysylianskyi
523	Workroom, 30G Dyzelna Street	Nemysylianskyi
524	BH, 8 Slovianska Street	Kholodnohirskyi
525	CHS, 15A Nadii Street (Pesochin)	Kholodnohirskyi
526	BH, 6 Rizdviana Street	Kholodnohirskyi
527	CHS, 17B Berkosa Street	Kholodnohirskyi
528	BH, 35 Zaluznodorozhnia Street	Kholodnohirskyi
529	BH, 2A Plastychnyi Lane	Kholodnohirskyi
530	BH, 27 Kurylivska Street	Kholodnohirskyi
531	BH, 30 Kurylivska Street	Kholodnohirskyi
532	BH, 49/51 Rylieieva Street	Kholodnohirskyi

533	BH, 8 Skovorodynivska Street	Kholodnohirskiy
534	BH, 7A Nova Bavariia Station	Novobavarskiy
535	BH, 1 Sokhora Street	Osnovianskiy
536	BH, 306 Haharina Avenue	Osnovianskiy
537	BH, 27A Dyspetcherska Street	Osnovianskiy
538	MU, 30 Merefianske Highway	Osnovianskiy
539	BH, 13 Pryvokzalna Street	Osnovianskiy

Annex 38. List of implementation objects of SCADA systems

ID No.	Postal Address of Facility	Administrative District of Kharkiv
	List of dispatch centers of Client	
1	CDC (Central Dispatch Center), 3 Enerhetychna Street	Nemyslianskyi
2	RDC (regional dispatch center) of Osnovianskyi district branch, 5A Moskalivska Street	Osnovianskyi
3	RDC of Kuyivskuy district branch, 13 Metrobudivnykiv Street	Kuyivskiy
4	RDC of Industrialnyi district branch, 3A Kosarieva Street	Industrialnyi
5	RDC of Shevchenkivskyi district branch, 17 Shekspira Street	Shevchenkivskyi
6	RDC of Moskovskyi district branch, 13 Svitla Street	Moskovskyi
7	RDC of Slobidskyi district branch, 18B Petra Hryhorenka Avenue	Slobidskyi
8	RDC of Novobavarskyi district branch, 60 Planova Street	Novobavarskyi
9	RDC of Nemyslianskyi district branch, 23A Olimpiiska Street	Nemyslianskyi
10	RDC of Kholodnohirskyi district branch, 152B Poltavskyi Shliakh Street	Kholodnohirskyi
11	RDC of Shevchenkivskyi district branch, CHS 2/31, 49 Nauky Avenue	Shevchenkivskyi
	List of heat chambers with drainage pumps	
1	MK6612A, Kashtanova Street	Slobidskyi
2	MK6609, Morozova Street	Slobidskyi
3	MK6618, Haharina Avenue	Slobidskyi
4	MK6620, Haharina Avenue	Osnovianskyi
5	MK6625, Haharina Avenue	Osnovianskyi
6	MK2304, Sliusarnyi Lane	Osnovianskyi ????
7	MK1608/15, Himnaziina Quay	Osnovianskyi
8	MK1149/12, Himnaziina Quay	Osnovianskyi
9	MK1619A, Kooperatyvna Street	Osnovianskyi
10	MK7803, Shchaslyva Street	Kholodnohirskyi
11	MK7802, Zaliutynska Street	Kholodnohirskyi
12	MK7830, Serafymovycha Street	Kholodnohirskyi
13	MK7833, Lozivska Street	Kholodnohirskyi
15	MK7835, Lozivska Street	Kholodnohirskyi
15	MK7107, Kholodnohirska Street	Kholodnohirskyi
	Heat sources	
1	CHP-3 (the main building and peak boiler), 3 Enerhetychna Street	Nemyslianskyi
2	CHP-4 (peak boiler), 275 Moskovskyi Avenue	Industrialnyi

3	CHP-4 (the main building), 275 Moskovskiy Avenue	Industrialnyi
4	CHP-5, Podvirku village, Dergachivskiy district, Kharkiv's region	Kholodnohirskiy
5	boiler house, 4 Artema Vedelia Street	Moskovskiy
6	boiler house, 2/1 Kostycheva Street	Slobidskiy
7	boiler house, 17 Shekspira Street	Shevchenkivskiy
8	boiler house "Pivnichnyi-3", 13 Metrobudivnykiv Street	Kuyivskiy
9	boiler house "Pivnichnyi-1", 9A Dzherelna Street	Moskovskiy
10	boiler house "Pivnichnyi-2", 12 Metrobudivnykiv Street	Kuyivskiy
11	boiler house "Pivnichnyi-4", 25A Metrobudivnykiv Street	Kuyivskiy
12	boiler house "Pivnichnyi-5", 281A Druzhby Narodiv Street	Kuyivskiy
	Pump stations	
1	PS №1-2, 15A Mefodiivska Street	Slobidskiy
2	PS №1-1, 12/14 Kooperatyvna Street	Osnovianskiy
3	PS №2-1, 6 Shchedrinskiy kvartal Street	Kuyivskiy
4	PS №2-2, 27 Velykiy Danylivskiy Lane	Kuyivskiy
5	PS №4-3, 3A Nauky Avenue	Shevchenkivskiy
6	PS №4-1, 325A Klochkivska Street	Shevchenkivskiy
7	PS №6-2, 129/1 Haharina Avenue	Slobidskiy
8	PS №7-1, 1 Zemivska Street	Kholodnohirskiy
9	PS №7-2 and №7-3, 6 Serafimovycha Street	Kholodnohirskiy
10	PS №9-1, 18 Blahodatna Street	Nemysylianskiy
	Heat cameras	
1	MK1111, Moskovskiy Avenue	Slobidskiy
2	MK 1121, Moskovskiy Avenue	Slobidskiy
3	MK 1132, Bronenostsia Potomkin Street	Slobidskiy
4	MK 1136, Zakhysnykiv Ukrainy Square	Osnovianskiy
5	MK 1142, Bohdana Khmelnytskoho Street	Osnovianskiy
6	MK 1210, Mefodiivska Street	Slobidskiy
7	MK 1228A, Zakhysnykiv Ukrainy Square	Slobidskiy
8	MK 1407, Enerhetychna Street	Slobidskiy
9	MK 1412, Dyzelna Street	Slobidskiy
10	MK 1608, Himnaziina Quay	Osnovianskiy
11	MK 1619A, Kooperatyvna Street	Osnovianskiy
12	MK 1620, Kooperatyvna Street	Osnovianskiy
13	MK 1825, Bilostotskiy Lane	Moskovskiy
14	MK 1909, Khramova Street	Osnovianskiy
15	MK 2240A, Butivskiy Entry	Kuyivskiy
16	MK 2307, Kulykivska Street	Kuyivskiy
17	MK 4623, Pavlivskiy Square	Shevchenkivskiy
18	MK 4629, Bursatskiy uzviz	Shevchenkivskiy
19	MK 4641, Rymarska Street	Shevchenkivskiy
20	MK 6609, Morozova Street	Slobidskiy
21	MK 6609A, Morozova Street	Slobidskiy
22	MK 6618, Haharina Avenue	Slobidskiy

23	MK 6619, Haharina Avenue	Slobidskyi
24	MK 6621, Haharina Avenue	Osnovianskyi
25	MK 6758, Petra Hryhorenka Avenue	Slobidskyi
26	MK 9502, Lva Landau Avenue	Nemysylianskyi
27	MK 9509, Petra Hryhorenka Avenue	Nemysylianskyi
28	MK 9510, Yurieva Boulevard	Nemysylianskyi
29	MK 9515, Kharkivskykh Dyvizii Street	Nemysylianskyi
30	MK 9608, Biblyka Street	Nemysylianskyi
31	MK 3112A, Biblyka Street	Industrialnyi
32	MK 3118, Oleksandrivskyi Avenue	Industrialnyi
33	MK 3232, Industrialnyi Avenue	Industrialnyi
34	MK 3232A, Industrialnyi Avenue	Industrialnyi
35	MK 3239, Industrialnyi Avenue	Industrialnyi
36	MK 3239A, Industrialnyi Avenue	Industrialnyi
37	MK 3244, Kosarieva Street	Industrialnyi
38	MK 3701, Dvanadtsiatoho Kvitnia Street	Industrialnyi
39	MK 3710A, Rohanska Street	Industrialnyi
40	MK 9403, Blahodatna Street	Nemysylianskyi
41	MK 9406, Lodzynska Street	Nemysylianskyi
42	MK 9421, Blahodatna Street	Nemysylianskyi
43	MK 9607A, Biblyka Street	Nemysylianskyi
44	MK 2246, Pushkinska Street	Kyivskyi
45	MK 2248, Svobody Street	Kyivskyi
46	MK 2253, Yaroslava Mudroho Street	Kyivskyi
47	MK 2954, Olesia Honchara Street	Kyivskyi
48	MK 2955, Pushkinska Street	Kyivskyi
49	MK 2968, Narynska Street	Kyivskyi
50	MK 2969, Kozakevycha Street	Kyivskyi
51	MK 2976, Valentynivska Street	Kyivskyi
52	MK 2976/5, Valentynivska Street	Kyivskyi
53	MK 2982, Buchmy Street	Kyivskyi
54	MK 2987, Lesia Serdiuka Street	Kyivskyi
55	MK 4157, Danylevskoho Street	Shevchenkovskyi
56	MK 4160, Danylevskoho Street	Shevchenkovskyi
57	MK 4648, Rymarska Street	Shevchenkovskyi
58	MK 4802, Sofiiivska Street	Shevchenkovskyi
59	MK 4811, Klochkivska Street	Shevchenkovskyi
60	MK 4818, Tsilynohradska Street	Shevchenkovskyi
61	MK 4823, Liudviha Svobody Street	Shevchenkovskyi
62	MK 4824A, , Liudviha Svobody Street	Shevchenkovskyi
63	MK 4827, Peremohy Avenue	Shevchenkovskyi
64	MK 4938, Samarska Street	Shevchenkovskyi
65	MK 4940Б, Kosmichna Street	Shevchenkovskyi
66	MK 4940Б/1, Kosmichna Street	Shevchenkovskyi
67	MK 4950, Trinklera Street	Shevchenkovskyi
68	MK 4951, Trinklera Street	Shevchenkovskyi
69	MK 4952, Sumska Street	Shevchenkovskyi
70	MK 7101, Verkhnia Hyivska Street	Kholodnohirskyi
71	MK 7107, Kholodnohirska Street	Kholodnohirskyi
72	MK 7302, CHP-5, village Podvirky	Kholodnohirskyi

73	MK 7601A/1, Motorway Kharkiv-Sumy	Kholodnohirskiy
74	MK 7602, Zaliutynska Street	Kholodnohirskiy
75	MK 7802, Zaliutynska Street	Kholodnohirskiy
76	MK 7811, Samodiialna Street	Kholodnohirskiy
77	MK 7814A, Verkhnia Hyivska Street	Kholodnohirskiy
78	MK 7835, Lozivska Street	Kholodnohirskiy
79	MK 7835AH1, Lozivska Street	Kholodnohirskiy
80	MK 8116, Hryhorivske Highway	Novobavarskyi
81	MK 8611, Hryhorivske Highway	Novobavarskyi
82	MK 8615, Profspilkovyi Boulevard	Novobavarskyi
83	MK 4115, Shekspira Street	Shevchenkivskiy
84	MK 4201, Dvadtsiat Tretoho Serpnia Street	Shevchenkivskiy
85	MK 4204, Dvadtsiat Tretoho Serpnia Street	Shevchenkivskiy
86	MK 4205, Dvadtsiat Tretoho Serpnia Street	Shevchenkivskiy
87	MK 4215/1, Derevianka Street	Shevchenkivskiy
88	MK 4306, Novhorodska Street	Shevchenkivskiy
89	MK 4515, Otakara Yarosha Street	Shevchenkivskiy
90	MK 1822, Marshala Batytskoho Street	Moskovskiy
91	MK 5106, Hvardiitsiv Shyronintsiv Street	Moskovskiy
92	MK 5106A, Hvardiitsiv Shyronintsiv Street	Moskovskiy
93	MK 5111, Hvardiitsiv Shyronintsiv Street	Moskovskiy
94	MK 5116, Hvardiitsiv Shyronintsiv Street	Moskovskiy
95	MK 5124, Hvardiitsiv Shyronintsiv Street	Moskovskiy
96	MK 5207, Saltivske Highway	Moskovskiy
97	MK 5211A, Yuvileinyi Avenue	Moskovskiy
98	MK 5211B, Yuvileinyi Avenue	Moskovskiy
99	MK 5219, Valentynivska Street	Moskovskiy
100	MK 5225, Traktorobudivnykiv Avenue	Moskovskiy
101	MK 5227, Traktorobudivnykiv Avenue	Moskovskiy
102	MK 5309, Valentynivska Street	Moskovskiy
103	MK 5512, Yuvileinyi Avenue	Moskovskiy
104	MK 5711, Traktorobudivnykiv Avenue	Moskovskiy
105	MK 5830, Ivana Kamysheva Street	Moskovskiy
106	MK 6112, Kyrhyzka Street	Slobidskyi
107	MK 6120, Lva Landau Avenue	Slobidskyi
108	MK 6203, Kostycheva Street	Slobidskyi
109	MK 6408, Haharina Avenue	Osnovianskyi
110	MK 6502, Heroiv Stalinhradu Avenue	Slobidskyi
111	MK 6604, Enerhetychna Street	Slobidskyi
112	MK 6762A, Petra Hryhorenka Avenue	Slobidskyi
113	MK 6765, Heroiv Stalinhradu Avenue	Slobidskyi
	Central heat stations	
1	IHS 2/50, 8 Klasychnyi Lane	Shevchenkivskiy
2	CHS 2/17, 65 Peremohy Avenue	Shevchenkivskiy
3	CHS 2/28, 23B Akhsarova Street	Shevchenkivskiy
4	CHS 2/14, 35 G Liudviha Svobody Avenue	Shevchenkivskiy
5	CHS 2/15, 64D Peremohy Avenue	Shevchenkivskiy
6	CHS 2/16, 70G Peremohy Avenue	Shevchenkivskiy
7	CHS 2/18, 57 Peremohy Avenue	Shevchenkivskiy
8	CHS 2/19, 50G Peremohy Avenue	Shevchenkivskiy

9	CHS 2/20, 36A Liudviha Svobody Avenue	Shevchenkivskyi
10	CHS 2/21, 24A Liudviha Svobody Avenue	Shevchenkivskyi
11	CHS 2/25, 7 Chychybabina Street	Shevchenkivskyi
12	CHS 2/26, 9A Liapunova Street	Shevchenkivskyi
13	CHS 2/29, 101 Klochkivska Street	Shevchenkivskyi
14	CHS 2/9A, 23B Kosmichna Street	Shevchenkivskyi
15	CHS 2/32, 36A Arkhitektoriv Street	Shevchenkivskyi
16	CHS 2/33, 15 Kultury Street	Shevchenkivskyi
17	CHS 2/35, 59A Peremohy Avenue	Shevchenkivskyi
18	CHS 2/17A, 65 Peremohy Avenue	Shevchenkivskyi
19	CHS 2/36, 6 Kravtsova Lane	Shevchenkivskyi
20	CHS 2/37, 46 Peremohy Avenue	Shevchenkivskyi
21	CHS 2/30, 237 Klochkivska Street	Shevchenkivskyi
22	CHS 2/43, 7V Myrna Street	Shevchenkivskyi
23	CHS 2/46, 4 Kosmichna Street	Shevchenkivskyi
24	CHS 2/52, 1 Chychybabina Street	Shevchenkivskyi
25	CHS 2/47, 22/39 Tsilynohradaska Street	Shevchenkivskyi
26	IHS 2/34, 14B Oleksiivska Street	Shevchenkivskyi
27	IHS 2/39, 23 Balakirieva Street	Shevchenkivskyi
28	IHS 2/40, 30 Oleksiivska Street	Shevchenkivskyi
29	IHS 2/42, 25 Kolomenska Street	Shevchenkivskyi
30	IHS 2/54, 38 Danylevskoho Street	Shevchenkivskyi
31	IHS 2/53, 3 Chychybabina Street	Shevchenkivskyi
32	CHS 2/11, 2 Yesenina Street	Shevchenkivskyi
33	CHS 2/2, 53B Dvadtsiat Tretoho Serpnia Street	Shevchenkivskyi
34	CHS 2/1, 18A Sumhaiska Street	Shevchenkivskyi
35	CHS 2/3, 80A Nauky Avenue	Shevchenkivskyi
36	CHS 2/4, 6A Dvadtsiat Tretoho Serpnia Street	Shevchenkivskyi
37	CHS 2/5, 31 Dvadtsiat Tretoho Serpnia Street	Shevchenkivskyi
38	CHS 2/6, 32A Tsilynohradaska Street	Shevchenkivskyi
39	CHS 2/7, 3A Derevianka Street	Shevchenkivskyi
40	CHS 2/9, 4V Novhorodska Street	Shevchenkivskyi
41	CHS 2/10, 197Z Klochkivska Street	Shevchenkivskyi
42	CHS 2/13, 9A Starytskoho Street	Shevchenkivskyi
43	CHS 2/22, 19 Derevianka Street	Shevchenkivskyi
44	CHS 2/23, 7 Derevianka Street	Shevchenkivskyi
45	CHS 2/24, 40 Derevianka Street	Shevchenkivskyi
46	CHS 2/45, 336A Klochkivska Street	Shevchenkivskyi
47	CHS 2/38, 337A Klochkivska Street	Shevchenkivskyi
48	CHS 2/44, 33 Soldatska Street	Shevchenkivskyi
49	CHS 2/49, 366 Klochkivska Street	Shevchenkivskyi
50	CHS 2/31, 49 Nauky Avenue	Shevchenkivskyi
51	IHS 2/41, 82 Ochakivska Street	Shevchenkivskyi
52	IHS 2/10-1, 13 Myrna Street	Shevchenkivskyi
53	IHS 2/48, 261 Klochkivska Street	Shevchenkivskyi
54	CHS, 22 Marinska Street	Novobavarskyi
55	CHS, 4 Yuriiia Parashchuka Street	Novobavarskyi
56	CHS, 6B Petra Bolbochana Street	Novobavarskyi
57	CHS, 2A Bolharskyi Lane	Novobavarskyi
58	CHS, 177A Poltavskyi Shliakh Street	Novobavarskyi

59	CHS, 20A Liubovi Maloi Avenue	Novobavarskyi
60	CHS, 8 Peremozhstiv Street	Novobavarskyi
61	CHS, 5A Hrushevskoho Street	Novobavarskyi
62	CHS, 6A Dudynskoi Street	Novobavarskyi
63	CHS, 4 Liubovi Maloi Avenue	Novobavarskyi
64	CHS 5/7, 8/10 Darvina Street	Kuyivskiy
65	CHS, 7A Matiushenka Street	Kuyivskiy
66	CHS "Pivnichnyi-4", 25A Metrobudivnykiv Street	Kuyivskiy
67	CHS Pivnichnyi-5", 281A Druzhby Narodiv Street	Kuyivskiy
68	CHS "Pivnichnyi-3", 13 Metrobudivnykiv Street	Kuyivskiy
69	CHS "Pivnichnyi-2", 12 Metrobudivnykiv Street	Kuyivskiy
70	CHS 522/2, 12Zh Heroiv Pratsi Street	Kuyivskiy
71	CHS 522/1, 16G Valentynivska Street	Kuyivskiy
72	CHS 4/6, 43B Haharina Avenue	Slobidskyi
73	CHS 4/24, 35/1 Petra Hryhorenka Avenue	Slobidskyi
74	CHS 4/5, 8/1 Fesenkivskiy Entry	Slobidskyi
75	CHS 4/15, 9A Molochna Street	Slobidskyi
76	CHS 4/24a, 3A Zhasminovyi Boulevard	Slobidskyi
77	CHS, 122 Moskovskiy Avenue	Slobidskyi
78	CHS, 25 Kovtuna Street	Slobidskyi
79	CHS 4/27, 125V Niutona Street	Slobidskyi
80	CHS,159A Haharina Avenue	Slobidskyi
81	CHS 4/14, 41/1 Heroiv Stalinhradu Avenue	Slobidskyi
82	CHS 4/12, 17/1 Kostycheva Street	Slobidskyi
83	CHS, 27 Lva Landau Avenue	Slobidskyi
84	CHS 4/25, 4/1 Zhasminovyi Boulevard	Slobidskyi
85	CHS 4/27A, 148G Heroiv Stalinhradu Avenue	Slobidskyi
86	CHS 4/28, 18B Petra Hryhorenka Avenue	Slobidskyi
87	CHS 4/29, 12/1 Tankopiia Street	Slobidskyi
88	CHS 4/11, 5/1 Zernovyi Lane	Slobidskyi
89	CHS 4/13, 4/2 Zernovyi Lane	Slobidskyi
90	CHS 4/40, 55/1 Zernova Street	Slobidskyi
91	CHS 4/57, 171/1 Haharina Avenue	Slobidskyi
92	CHS 22of a hospital, 160 Heroiv Stalinhradu Avenue	Slobidskyi
93	CHS 4/28A, 18B Petra Hryhorenka Avenue	Slobidskyi
94	CHS,27A Lva Landau Avenue	Slobidskyi
95	CHS, 199/2 Haharina Avenue	Slobidskyi
96	CHS 3/14, 32 Blahovishchenska Street	Kholodnohirskiy
97	CHS 3/19, 45 Chobotarska Street	Kholodnohirskiy
98	CHS 3/20, 49 Chobotarska Street	Kholodnohirskiy
99	CHS 3/21, 6 Dmytrivska Street	Kholodnohirskiy
100	CHS 3/3, 28B Zolochivska Street	Kholodnohirskiy
101	CHS 3/11, 52 Pashchenkivska Street	Kholodnohirskiy
102	CHS 3/2, 68 Illinska Street	Kholodnohirskiy
103	CHS 3/1, 152 B Poltavskiy Shliakh Street	Kholodnohirskiy
104	CHS 3/9, 3 Kholodnohirska Street	Kholodnohirskiy
105	CHS 3/8, 21 Shchaslyva Street	Kholodnohirskiy
106	CHS 3/4, 17 Donbasivskiy Lane	Kholodnohirskiy
107	CHS, 3A Molodizhna Street	Kholodnohirskiy

108	CHS 3/10, 28 Ihora Muratova Street	Kholodnohirskiy
109	CHS 3/15, 71/1 Taborova Street	Kholodnohirskiy
110	CHS 3/16, 3A Druhyi Tarasivskiy Lane	Kholodnohirskiy
111	CHS 3/17, 8 Plastychnyi Lane	Kholodnohirskiy
112	CHS, 9A Berkosa Street	Kholodnohirskiy
113	CHS 3/18, 9 Ihora Muratova Street	Kholodnohirskiy
114	CHS, 3 Makarenka Street	Kholodnohirskiy
115	CHS, 15A Nadii Street (Pesochin)	Kholodnohirskiy
116	CHS, 7A Kvartalnyi Lane	Kholodnohirskiy
117	CHS, 222 Velyka Panasivska Street	Kholodnohirskiy
118	CHS, 193 Velyka Panasivska Street	Kholodnohirskiy
119	CHS, 190/2 Poltavskiy Shliakh Street	Kholodnohirskiy
120	CHS, 2 Kashuby Street	Kholodnohirskiy
121	CHS, 17B Berkosa Street	Kholodnohirskiy
122	CHS, 20 Malynovskoho Street	Kholodnohirskiy
123	CHS, 20 Pushkina Street	Kholodnohirskiy
124	CHS, 5 Shatylivska Street	Kholodnohirskiy
125	CHS, 110 Poltavskiy Shliakh Street	Kholodnohirskiy
126	CHS, 46 Akadematika Pavlova Street	Moskovskiy
127	CHS, 8 Serhiivska Street	Moskovskiy
128	CHS, 38 Marshala Batytskoho Street	Moskovskiy
129	CHS, 6/32 Avtostradnyi Lane	Moskovskiy
130	CHS, 16 Ladozkyi Lane	Moskovskiy
131	CHS 606/1, 3V Svitla Street	Moskovskiy
132	CHS 533/1, 47G Heroiv Pratsi Street	Moskovskiy
133	CHS 615/1, 22 V Hvardiitsiv Shyronintsiv Street	Moskovskiy
134	CHS 614, 57B Traktorobudivnykiv Avenue	Moskovskiy
135	CHS 605/2. 65B Traktorobudivnykiv Avenue	Moskovskiy
136	CHS 603/2, 63B Yuvileinyi Avenu	Moskovskiy
137	CHS 602/2. 75B Yuvileinyi Avenu	Moskovskiy
138	CHS 601, 86A Yuvileinyi Avenu	Moskovskiy
139	CHS 602/1, 67A Yuvileinyi Avenu	Moskovskiy
140	CHS 603/1, 59D Yuvileinyi Avenu	Moskovskiy
141	CHS 604/1, 70A Yuvileinyi Avenu	Moskovskiy
142	CHS 604/2, 139D Saltivske Highway	Moskovskiy
143	CHS 605/1, 77A Traktorobudivnykiv Avenue	Moskovskiy
144	CHS 656, 40B Yuvileinyi Avenu	Moskovskiy
145	CHS 615/2, 41A Hvardiitsiv Shyronintsiv Street	Moskovskiy
146	CHS 616, 27A Hvardiitsiv Shyronintsiv Street	Moskovskiy
147	CHS 531/1, 37E Heroiv Pratsi Street	Moskovskiy
148	CHS 531/2, 34E Buchmy	Moskovskiy
149	CHS 533/2, 44E Buchmy	Moskovskiy
150	CHS 606/2, 140G Traktorobudivnykiv Avenue	Moskovskiy
151	CHS 607/1, 83 Zh Traktorobudivnykiv Avenue	Moskovskiy
152	CHS 607/2, 54G Heroiv Pratsi Street	Moskovskiy
153	CHS "Budmistechno-1", 35D Vladyslava Zubenka Street	Moskovskiy
154	CHS "Budmistechno-2", 46D Valentynivska Street	Moskovskiy
155	CHS 535A, 126V Traktorobudivnykiv Avenue	Moskovskiy

156	CHS 606/3, 148A Traktorobudivnykiv Avenue	Moskovskiyi
157	CHS 520/1, 24V Valentynivska Street	Moskovskiyi
158	CHS 520/2, 132D Akadematika Pavlova Street	Moskovskiyi
159	CHS 521/1, 59E Hvardiitsiv Shyronintsiv Street	Moskovskiyi
160	CHS 521/2, 140E Akadematika Pavlova Street	Moskovskiyi
161	CHS 524/1, 73E Hvardiitsiv Shyronintsiv Street	Moskovskiyi
162	CHS 524/2, 12A Buchmy Street	Moskovskiyi
163	CHS "Pivnichnyi-1", 9A Dzherelna Street	Moskovskiyi
164	CHS, 48 Leonida Bykova Street	Moskovskiyi
165	CHS, 25 Adygeiskiyi Lane	Moskovskiyi
166	CHS 4/33, 71A Oleksandrivskiyi Avenue	Industrialnyi
167	CHS 4/34, 120A Oleksandrivskiyi Avenue	Industrialnyi
168	CHS 4/37, 1D Biblyka Street	Industrialnyi
169	CHS 4/34A, 114A Oleksandrivskiyi Avenue	Industrialnyi
170	CHS 4/33A, 65A Oleksandrivskiyi Avenue	Industrialnyi
171	CHS 4/31, 89A Rybalka Street	Industrialnyi
172	CHS 4/32, 57A Biblyka Street	Industrialnyi
173	CHS 4/30, 179B Lui Pastera Street	Industrialnyi
174	CHS 4/3A, 46B Hrytsevsia Street	Industrialnyi
175	CHS 4/39, 65A Plytkova Street	Industrialnyi
176	CHS "Horyzont-1", 3A Rostovska Street	Industrialnyi
177	CHS "Horyzont-1", 126A Velyka Kiltseva Street	Industrialnyi
178	CHS, 323A Lui Pastera Street	Industrialnyi
179	CHS, 19/85 Arkhitektora Alosyna Avenue	Industrialnyi
180	CHS, 1A Tarkhova Street	Industrialnyi
181	CHS, 17B Industrialnyi Avenue	Industrialnyi
182	CHS, 200 Lui Pastera Street	Industrialnyi
183	CHS, 32/38 Bohdana Khmelnytskoho Boulevard	Nemyskhlanskiy
184	CHS 4/3, 7A Petra Hryhorenka Avenue	Nemyskhlanskiy
185	CHS 4/36, 42A Rybalka Street	Nemyskhlanskiy
186	CHS 4/4, 11A Rybalka Street	Nemyskhlanskiy
187	CHS 4/7, 12/1 Rybalka Street	Nemyskhlanskiy
188	CHS 4/35, 33A Rybalka Street	Nemyskhlanskiy
189	CHS 4/38, 49D Rybalka Street	Nemyskhlanskiy
190	CHS 4/1, 19/1 Yurieva Boulevard	Nemyskhlanskiy
191	CHS 4/8, 14/1 Stadionnyi Passage	Nemyskhlanskiy
192	CHS 4/9, 6/7 Stadionnyi Passage	Nemyskhlanskiy
193	CHS 4/10, 23A Olimpiiska Street	Nemyskhlanskiy
194	CHS 4/625A, 33A Amosova Street	Nemyskhlanskiy
195	CHS 4/624, 5A Amosova Street	Nemyskhlanskiy
196	CHS 4/625, 15A Amosova Street	Nemyskhlanskiy
197	CHS 4/626, 42A Amosova Street	Nemyskhlanskiy
198	CHS 4/624A, 26A Amosova Street	Nemyskhlanskiy
199	CHS "Turkestanska", 106A Saltivske Highway	Nemyskhlanskiy
200	CHS 3/5, 5A Moskalivska Street	Osnovianskyyi
201	CHS 3/23, 62A Haharina Avenue	Osnovianskyyi
202	CHS, 9 Aptekarskyyi Lane	Osnovianskyyi
203	CHS, 14 Shota Rustaveli Lane	Osnovianskyyi
204	CHS, 4 Azerbaidzhanskyyi Passage	Osnovianskyyi
205	CHS 3/6, 174A Haharina Avenue	Osnovianskyyi

206	CHS, 36/1 Sydorenkivska Street	Osnovianskyi
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Annex 39. Information concerning the land plots of the PROJECT objects.

№	Object, address, name of the component	Name of district	Land use documents	Land plot description	Land plot area, m ²	Area of built-up buildings, located on the land plot, m ²
	CONSTRUCTION OF COGENERATION PLANTS					
1	boiler house, 4, Artema Vedelia str.	Moskovskiyi	Extract from State Register № 88154692 dated 26.05.17	industrial lands	1541	625
2	boiler house “Khartron”, 1, Akademika Proskury str.	Kyivskiyi	Extract from State Register №86419299 dated 04.05.17	industrial lands	6221	1502.8
	DECOMMISSIONING OF BOILER HOUSES, INSTALLATION OF HEAT SUPPLY STATIONS AND RECONSTRUCTION OF HEAT SUPPLY NETWORK					
1	boiler house, 199/2, Gagarina ave.	Slobidskyi	Extract from State Register №67697242 dated 09.09.16	industrial lands	920	359.2
2	boiler house , 77, Peremohy ave.	Shevchenkivskiyi	Boiler house is built into the resident building (roof)			technical passport is missing
3	boiler house №2, 77, Peremohy ave.	Shevchenkivskiyi	Boiler house is built into the resident building (roof)			technical passport is missing

4	boiler house, 57A, Seminarska str.	Novobavarskyi	Boiler house is built into the resident building (basement)			126.0
5	boiler house, 12, Kashirskoho str.	Novobavarskyi	Boiler house is built into the resident building (basement)			43.5
6	boiler house, 46/5, Seminarska str.	Novobavarskyi	Boiler house is built into the resident building (basement)			198
7	boiler house, 46, Seminarska str.	Novobavarskyi	Documents are not available (work is in progress)	industrial lands	517	329.4
8	boiler house, 57Б, Seminarska str.	Novobavarskyi	Boiler house is built into the resident building (basement)		-	74.6
9	boiler house, 47A, Pushkarivska str.	Novobavarskyi	Information certificate № 661183 dated 18.08.16	industrial lands	155	79
10	boiler house, 45, Liubovi Maloi ave.	Novobavarskyi	Documents are not available (work is in progress)	industrial lands	404	61.6
11	boiler house, 51, Liubovi Maloi ave.	Novobavarskyi	Boiler house is built into the resident building (basement)			213.3
12	boiler house, 2Б, Yudina str.	Novobavarskyi	Extract from State Register № 77020204 dated 26.12.16	industrial lands	600	314
RECONSTRUCTION OF BOILER HOUSES						

1	boiler house, 7, Hryshchenka str.	Nemysylianskyi	documents are missing (work is in progress)	industrial lands	1791	763.7
2	boiler house, 82A, Kulynychivska str.	Nemysylianskyi	documents are missing (work is in progress)	industrial lands	103	62.4
3	boiler house, 104, Krasnodarska str.	Nemysylianskyi	documents are missing (work is in progress)	industrial lands	398	303.3
4	boiler house "Pivnichnyi-1", 9A, Dzherelna str.	Moskovskyi	Money value, extract № 1403/14 dated 20.05.2014 № 2657/08	industrial lands	5 304.0	977.8
5	boiler house, 12, Konieva str.	Novobavarskyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	35.0	
6	boiler house, 6/10, Polzunova lane	Novobavarskyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	35.0	
7	boiler house, 90, Novo-Bavarskyi ave.	Novobavarskyi	Extract from State Register № 77046340 dated 26.12.16	industrial lands	1 430.0	600.0
8	boiler house, 53, Lomonosova str.	Novobavarskyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	50.0	
9	boiler house, 8, Bulvarna str.	Novobavarskyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	25.0	
10	boiler house, 88A, Seminarska str.	Novobavarskyi	Money value, extract №1405/14 dated 20.05.2014 №2655/08	industrial lands	298.0	145.9
11	boiler house, 13, Marka Bernesa str.	Novobavarskyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	50.0	

12	boiler house, 5, Metiznyi lane	Novobavarskyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	70.0	
13	boiler house, 7A, St. Nova Bavariia str.	Novobavarskyi	Documents are not available (work is in progress)	industrial lands	77.0	30.6
14	boiler house, 48, Konotopska str.	Novobavarskyi	Documents are not available (work is in progress)	industrial lands	237.0	69.6
15	boiler house, 26, Kontroska str.	Novobavarskyi	Boiler house is built into the resident building (basement)			75.4
16	boiler house, 2, Kontroska str.	Novobavarskyi	Documents are not available (work is in progress)	industrial lands		
17	boiler house, 5/7, Karpivska str.	Novobavarskyi	Documents are not available (work is in progress)	industrial lands	78.0	44.4
18	boiler house, 66, Naboichenka Petra str.	Novobavarskyi	Documents are not available (work is in progress)	industrial lands	124.0	62.5
19	boiler house, 99A, Novo-Bavarskyi ave.	Novobavarskyi	Extract from State Register № 77012569 dtd. 26.12.16	industrial lands	1 750.0	490.4

20	boiler house, 41, Novyi Pobut str.	Kholodnohirskiyi	Boiler house is built into the resident building (basement)			154.5
21	boiler house, 49/51, Rylieieva str.	Kholodnohirskiyi	Boiler house is built into the resident building (basement)			66.4
22	boiler house, 67, Velyka Panasivska str.	Kholodnohirskiyi	State act № 307889 dtd. 30.05.12	industrial lands	520.0	403.6
23	boiler house, 35, Zaliznychna str.	Kholodnohirskiyi	State act № 307886 dtd. 30.05.12	industrial lands	175.0	100.6
24	boiler house, 2/15, Blahovishchenska str.	Kholodnohirskiyi	Boiler house is built into the resident building (basement)			97.4
25	boiler house, 12, Baltiiska str.	Kholodnohirskiyi	Documents are not available (work is in progress)	industrial lands	507.0	63.4
26	boiler house, 3, Afanasivska str.	Kholodnohirskiyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	28.0	
27	boiler house, 205, Velyka Panasivska str.	Kholodnohirskiyi	Stae Act № 318810 dtd. 19.11.12	industrial lands	3 435.0	583.1
28	boiler house, 27/5, Berkosa str.	Kholodnohirskiyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	28.0	
29	boiler house, 41, Kurylivska str.	Kholodnohirskiyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	28.0	
30	boiler house, 65, Ozerianska str.	Kholodnohirskiyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	28.0	

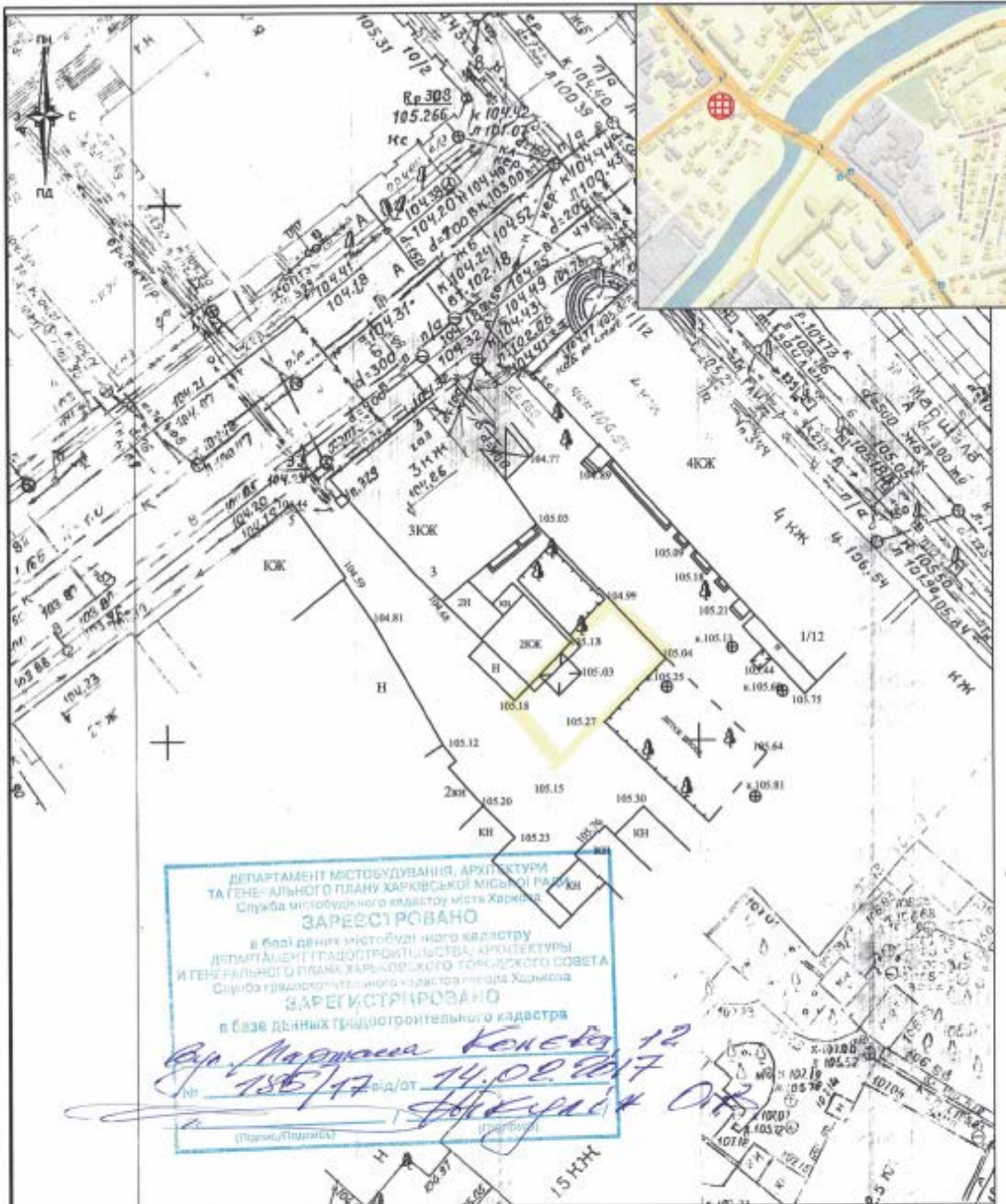
31	boiler house, 35, Novyi Pobut str.	Kholodnohirskiyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	28.0	
32	boiler house, 6, Rizdviana str.	Kholodnohirskiyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	28.0	
33	boiler house, 8, Slovianska str.	Kholodnohirskiyi	Documents are not available (work is in progress)	industrial lands	1081.0	686.0
34	boiler house, 29, Velyka Panasivska str.	Kholodnohirskiyi	State Act № 307954 dtd. 27.07.12	industrial lands	2 080.0	588.2
35	boiler house, 7, Ihoria Muratova str.	Kholodnohirskiyi	Documents are not available (work is in progress)	industrial lands	106.0	96.2
36	boiler house, 41/43, Andriivska str.	Kholodnohirskiyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	28.0	
37	boiler house, 30, Hrekivska str.	Osnovianskyi	Documents are missing. Boiler house is located in the annex to the residential building	industrial lands	29.0	29.0
38	boiler house, 1, Biolohichny lane	Osnovianskyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	50.0	
39	boiler house, 19, Ternopilska str.	Osnovianskyi	Decision № 757/12 dtd. 22.06.2012 in the permanent use	industrial lands	476.0	148.7

40	boiler house, 1, Lymanskyi lane	Osnovianskyi	Mobey value № 1404/14 dtd. 20.05.2014 № 2657/08	industrial lands	442.0	165.7
41	boiler house, 16, Myrhorodska str.	Osnovianskyi	Documents are not available (work is in progress)	industrial lands	75.0	15.1
42	3, Dostoievskoho entr. (construction of the new heat source with closing of boiler houses): <ul style="list-style-type: none"> • 1, Dostoievskoho str., • 14, Dostoievskoho entr. • 35A, Dostoievskoho entr. 	Osnovianskyi	Documents are not available (work is in progress)	industrial lands		
43	boiler house, 27A, Dyspetcherska str.	Osnovianskyi	State Acts № 319509, № 319508 dtd. 06.11.07	industrial lands	4790.0	1 171.4
44	boiler house, 89A, Dostoievskoho str.	Osnovianskyi	Grounding of the plot land boundaries developed	industrial lands	104.0	91.0
45	boiler house, 20, Bukova str.	Shevchenkivskyi	Documents are missing. Boiler house is located at premise of the 1-st storey of the resident building			26.9
46	boiler house, 20a, Bukova str.	Shevchenkivskyi	Documents are missing (work is in progress) Boiler house is located in the annex to the residential building	industrial lands	40.0	29.5
47	boiler house, 14 Bukova str.	Shevchenkivskyi	Documents are missing (work is in progress) Boiler house is located in the annex to the residential building	industrial lands	49.0	22.1

48	boiler house, YRC Internationalist, 70, Horianska str.	Kyivskiyi	Documents are not available (work is in progress)	industrial lands	2791.0	518.3
49	boiler house "Piatykhvatky", 1, Akademichna str.	Kyivskiyi	Documents are not available (work is in progress)	industrial lands	15342.0	3526.2
50	boiler house, 10Б, Saperna str.	Kyivskiyi	State Act № 318782 dtd. 02.10.12	industrial lands	5 520.0	637.8
51	boiler house, 27, Pomirky str.	Kyivskiyi	Documents are not available (work is in progress)	industrial lands	380.0	214.2
52	boiler house "Aeroport", 9, Nesterova str.	Slobidskyi	Extract from State Register EEX 3277769 dtd. 31.07.15	industrial lands	2900.0	902.8
53	boiler house, 74A, Myru str.	Industrialnyi	Documents are not available (work is in progress)	industrial lands	2270.0	881.3
54	boiler house, 10/12, Blahovishchenska str.	Kholodnohirskiyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	28.0	
55	boiler house, 7A, Konieva str.	Novobavarskyi	Documents are not available (work is in progress)	industrial lands	1303.0	498.8
56	boiler house, 5A, Svinarenka str.	Novobavarskyi	Information certificate № 66633459 dtd. 26.08.16	industrial lands	950.0	436.6

57	boiler house, 23A, Svitlanivska str.	Novobavarskyi	State Act № 318905 dtd. 28.11.12	industrial lands	223.0	84.5
58	boiler house, 32, Seminarska str.	Novobavarskyi	The plot allocated for the construction (cadastral survey Annex № 42)	industrial lands	50.0	
	Commissioning of steam turbogenerator and reconstruction of steam boiler at CHP-3					
	CHP-3, 3, Enerhetychna str.	Nemyshlianskyi	Extract from State Register EAX № 576325 dtd. 14.03.14	industrial lands	195781.0	Boiler-turbine workshop-13030.8

Annex 40 Cadastral survey of construction plots of the new boiler houses



замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"

Склад	Бердишев С.В.	Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Маршала Конєва у дворі будинку №12 у Новобаварському районі м. Харкова	Топографічний план М 1 : 500

Плани М 1 : 500 №110-3Б	
Масштаб	Рес.№
1 : 500	185/17
ФО-П Бердишев С.В. м. Харків 2017 рік	



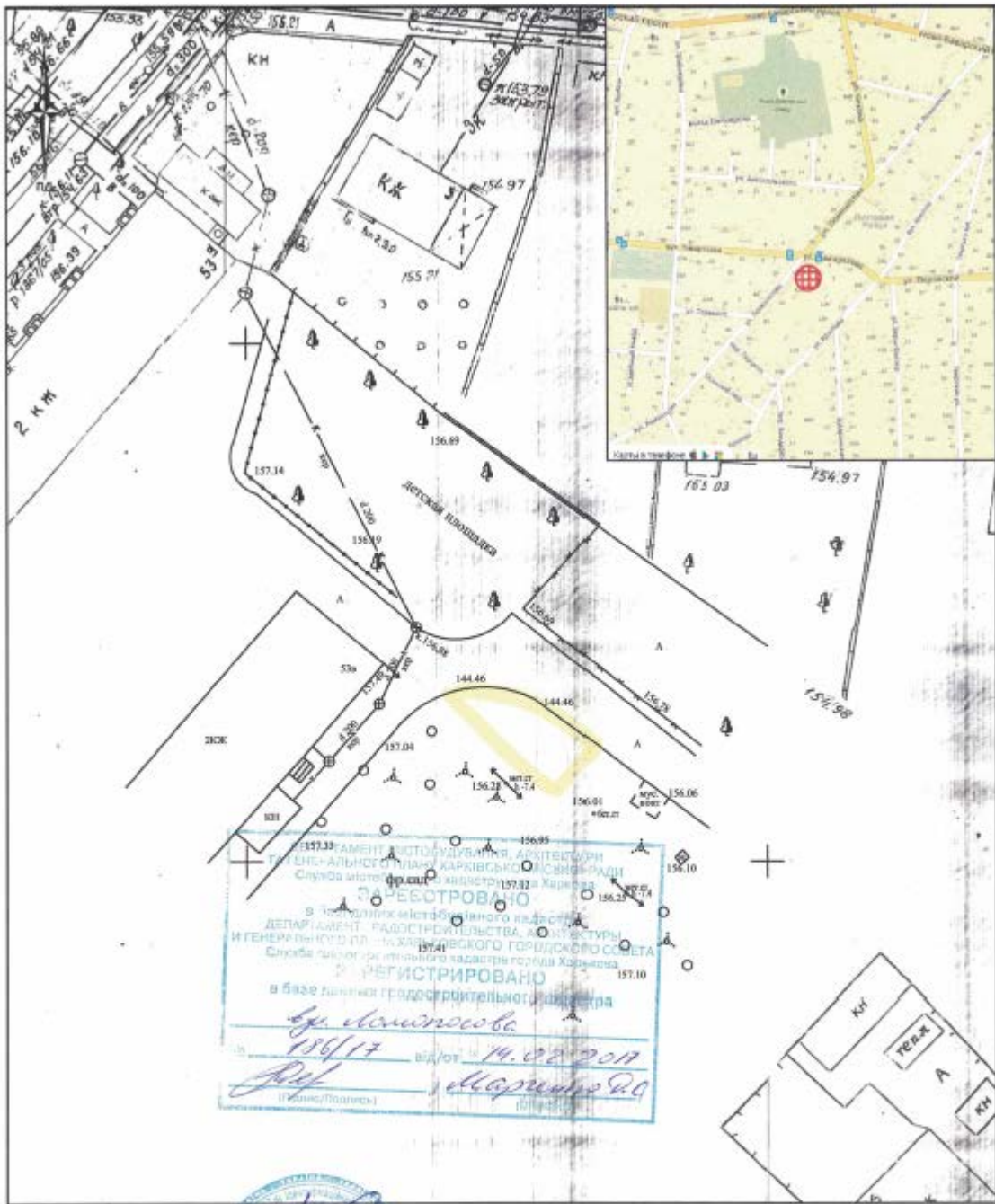
замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"

Склад	Бердичев С.В.

Кадастрова зйомка
території для подальшого
оформлення земельної ділянки
по пр. Ползунова у дворі будинку №6/10
у Новобаварському районі м. Харкова

Топографічний план
М 1 : 500

Планиmetry М 1 : 500 №109-4А,4В	
Масштаб	Рег.№
1 : 500	187/17
ФО-П Бердичев С.В. м. Харків 2017 рік	



замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"

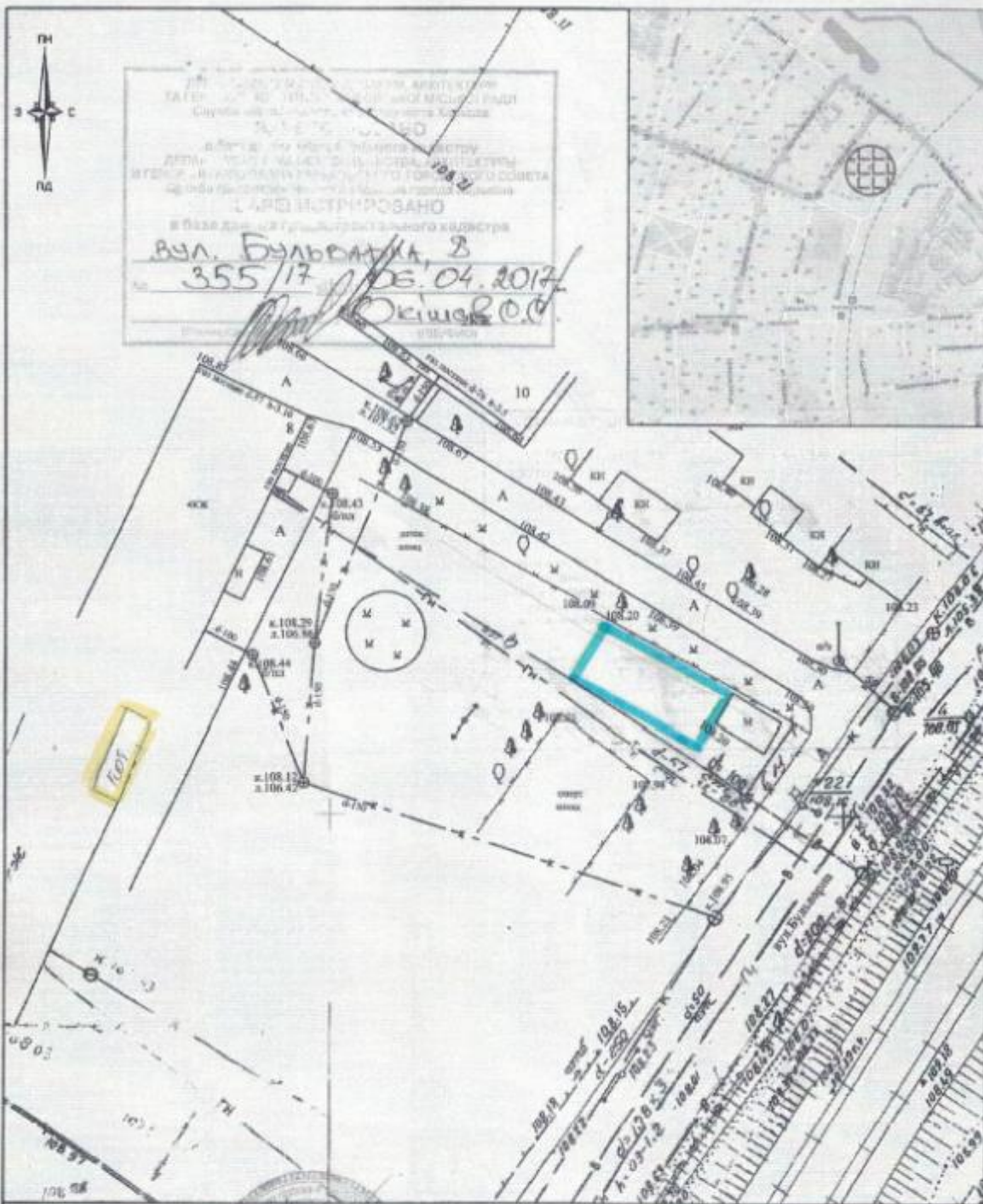
Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Ломоносова біля будинку №53В у Новобаварському районі м. Харкова

Топографічний план
 М 1 : 500

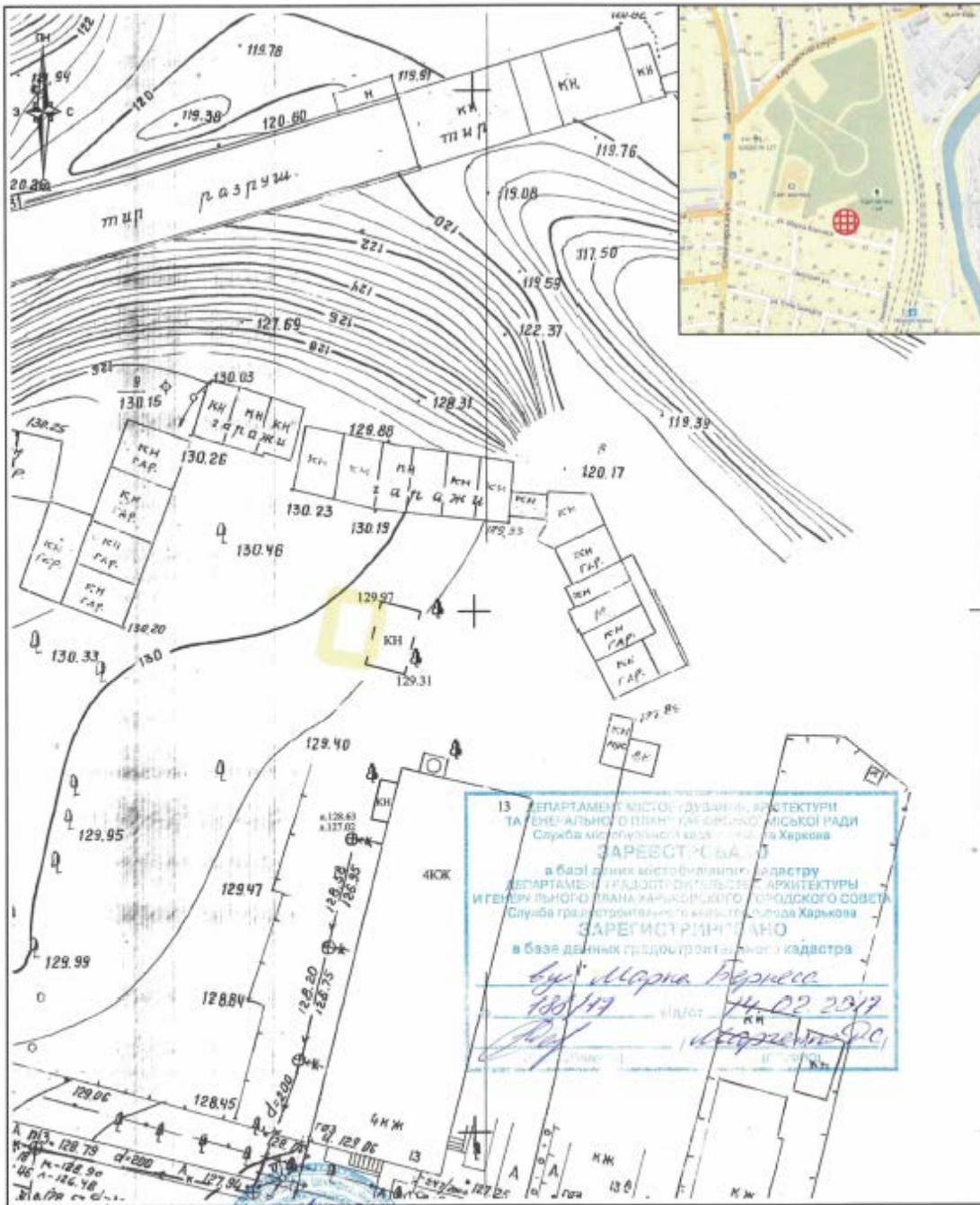
Планими М 1 : 500
 №208-2Б,

Масштаб	Рес.№
1 : 500	186/17

ФО-П Бердичев С.В.
 м. Харків
 2017 рік



замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"		Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Бульварній, 8 у Новобаварському районі м. Харкова	Планишета М 1 : 500 №188-3А.Б	
Склад	Бердишев С.В.		Масштаб	Рег.№
			1 : 500	
Топографічний план М 1 : 500			Ф.О.П Бердишев С.В. м. Харків 2017 рік	



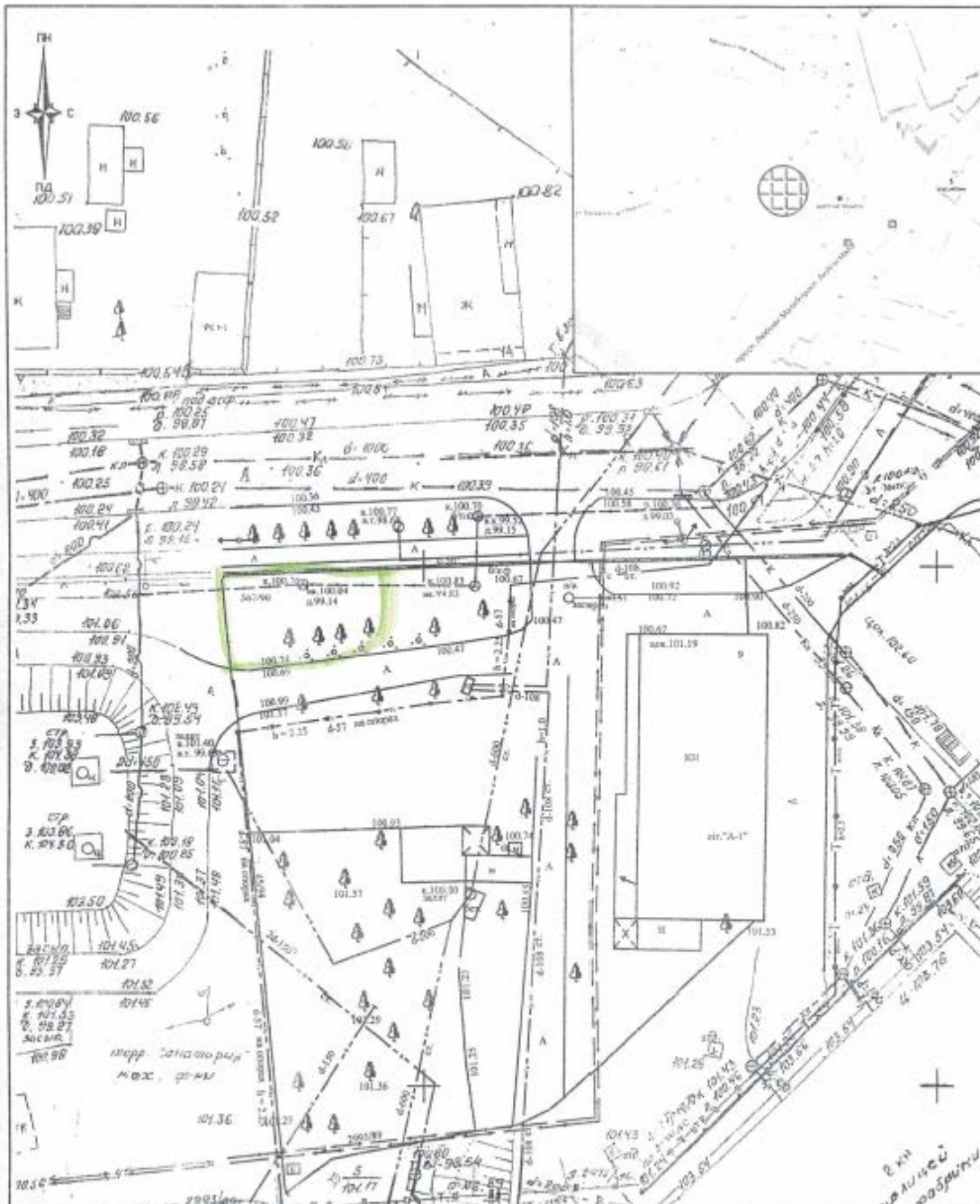
замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"

Склад	Бердишев С.В.

Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Марка Бернеса біля будинку №13 у Новобаварському районі м. Харкова

Топографічний план
М 1 : 500

Планиети М 1 : 500 №127-4Б	
Масштаб	Рез.№
1 : 500	188/17
ФО-П Бердишев С.В. м. Харків 2017 рік	



замовник: КП "ХАРКІВСЬКІ ТЕПЛОМЕРЕЖІ"

Кадастрова зйомка
території для подальшого
оформлення земельної ділянки
по вул.Баркалова, 11
у Новобаварському районі м. Харкова

Планишети М 1 : 500
№165-1Г

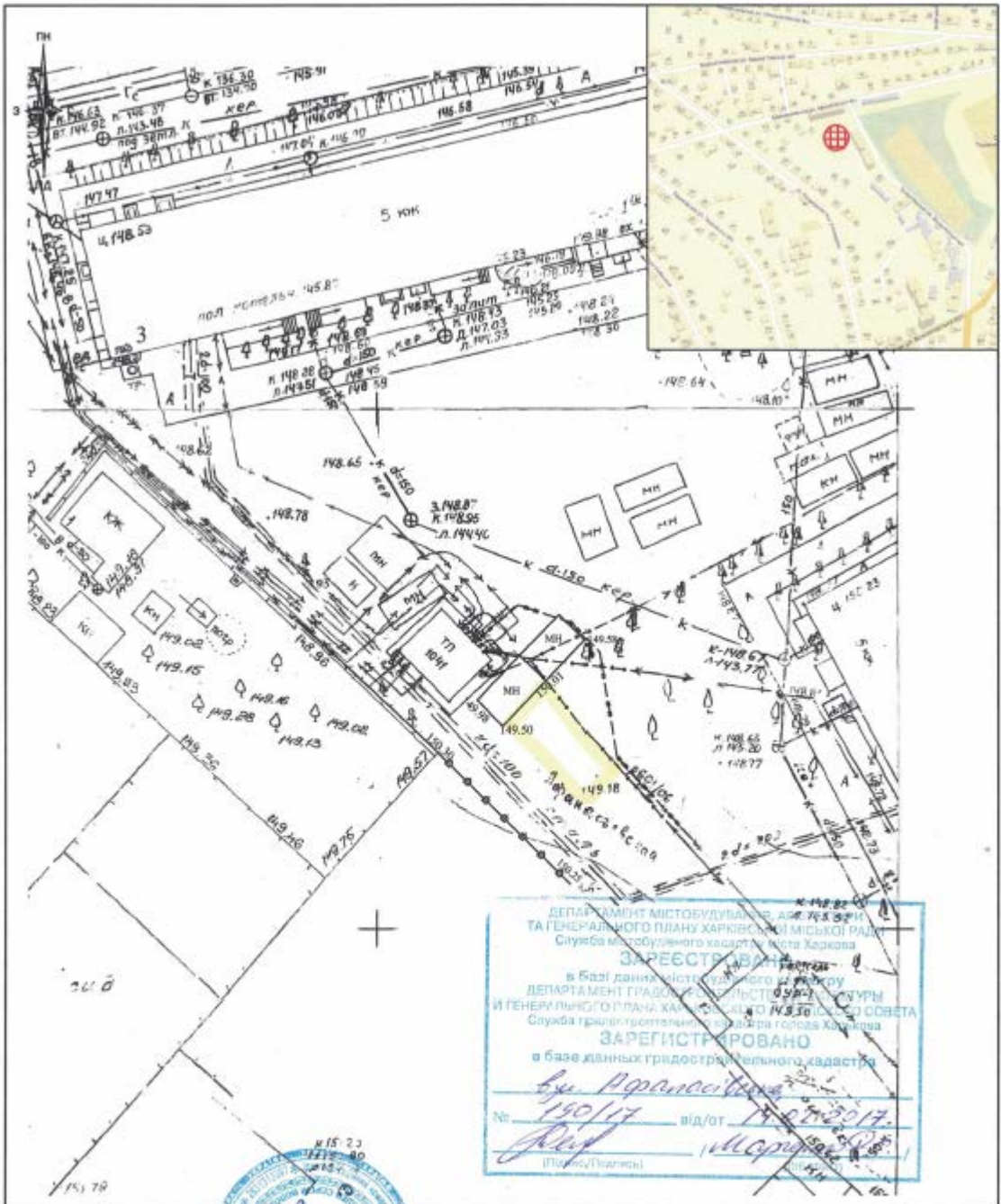
Склад Бердичев С.В.

Масштаб Рег.№
1 : 500



Топографічний план
М 1 : 500

ФО-П Бердичев С.В.
м. Харків
2017 рік



ДЕПАРТАМЕНТ МІСТРОБУДУВАННЯ, АРХІТЕКТУРИ
ТА ГЕНЕРАЛЬНОГО ПЛАНУ ХАРКІВСЬКОЇ МІСЬКОЇ РАДИ
Служба містобудівного кадастру м. Харкова

ЗАРЕЄСТРОВАНО

в базі даних містобудівного кадастру
ДЕПАРТАМЕНТ ГРАДОВЕРОБСТВА, АРХІТЕКТУРИ
І ГЕНЕРАЛЬНОГО ПЛАНУ ХАРКІВСЬКОЇ МІСЬКОЇ РАДИ
Служба градівпорядкування м. Харкова

ЗАРЕГІСТРОВАНО
в базі даних ґридостроїтельного кадастра

В.В. Параносітська
№ 190/17 від/от 14.07.2017.
М.С.Рибак
(Підпис/Печатка)

замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"		Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Афанасівській у дворі будинку №3 у Холодногірському районі м. Харкова		Планиети М 1 : 500 №90 -2В,4А	
Склад	Бердишев С.В.	Топографічний план М 1 : 500		Масштаб	Рез.№
				1 : 500	190/17
				ФО-П Бердишев С.В. м. Харків 2017 рік	



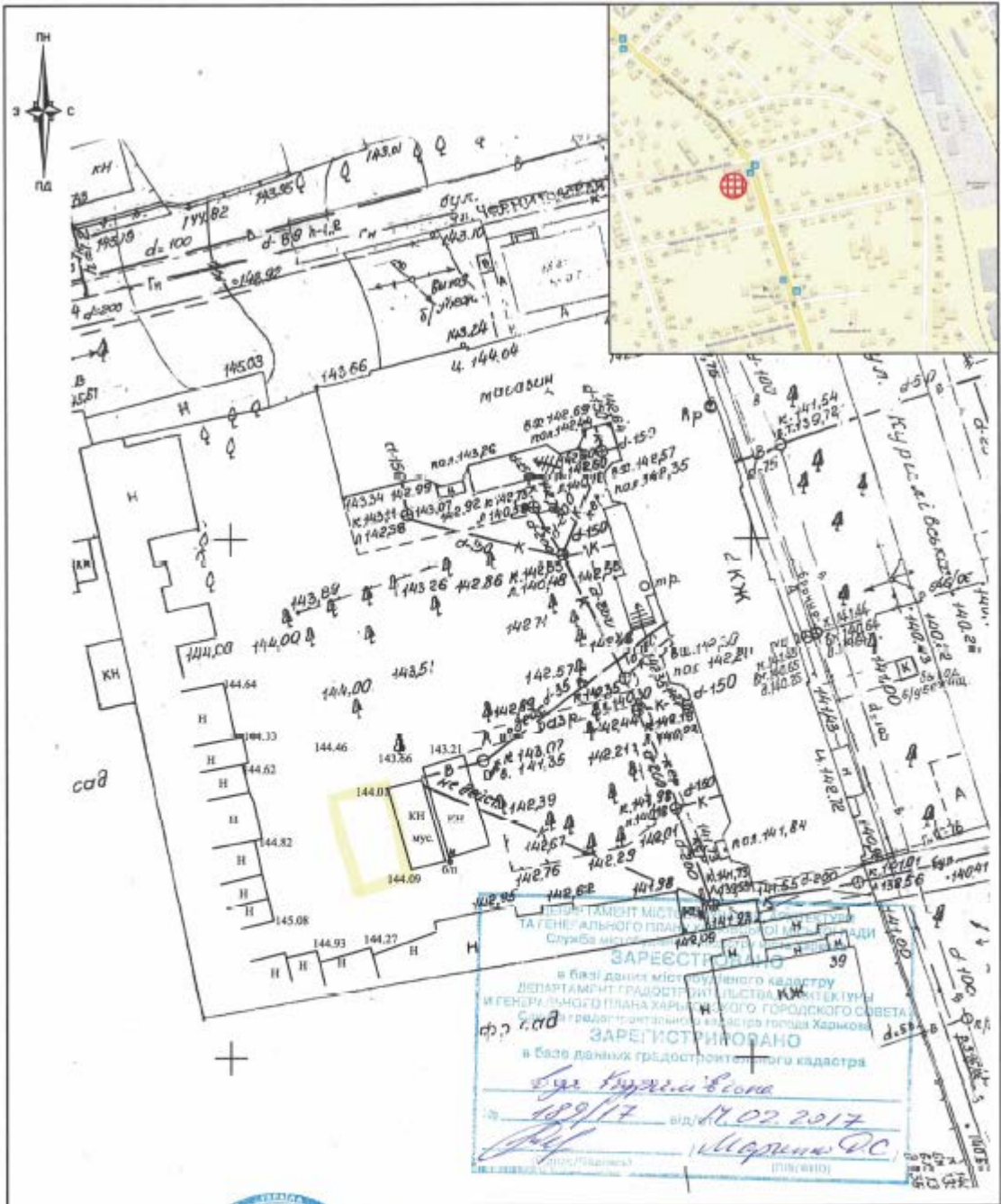
замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"

Склад	Бердишев С.В.

Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Бергеса біля будинку №27/5 у Холодногірському районі м. Харкова

Топографічний план
М 1 : 500

Планишети М 1 : 500 №45 -2А	
Масштаб	Рег.№
1 : 500	192/17
ФО-П Бердишев С.В. м. Харків 2017 рік	



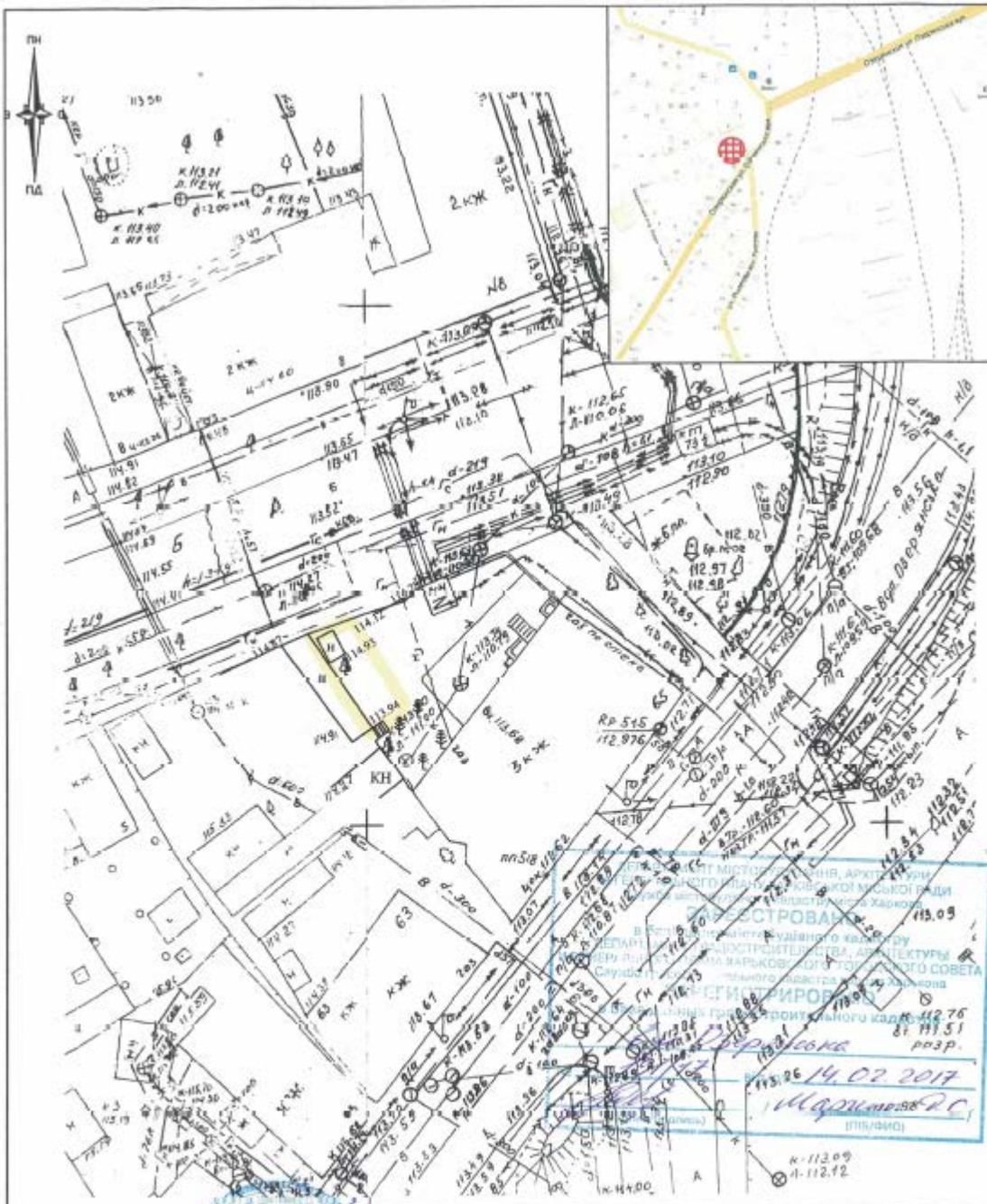
замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"

Склад	Бердишев С.В.

Кадастрова зйомка
території для подальшого
оформлення земельної ділянки
на вул.Буржуйівській у дворі будинку №11
у Холодногірському районі м. Харкова

Топографічний план
М 1 : 500

Площі М 1 : 500 №74-4Б	
Масштаб	Рег.№
1 : 500	189/17
ФО-П Бердишев С.В. м. Харків 2017 рік	



замовник: КП "ХАРКІВСЬКІ ТЕПЛОМЕРЕЖІ"

Склад	Бердичев С.В.



Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Озерянській біля будинку №65 у Холодногірському районі м. Харків

Топографічний план
М 1 : 500

Планиети М 1 : 500
№91 -ІВ,Г

Масштаб	Рег.№
1 : 500	191/17

ФО-П Бердичев С.В.
м. Харків
2017 рік



замовник: КП "ХАРКІВСЬКА ТЕЛІФОННА МЕРЕЖА"

Склад Бердишев С.В.

Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Новий Побут у дворі будинку №35 у Холодногірському районі м. Харкова

Топографічний план М 1 : 500

Пласти М 1 : 500 №73 -2А

Масштаб	Рег.№
1 : 500	195/17

ФО-П Бердишев С.В.
м. Харків
2017 рік



замовник: КП "ХАРКІВСЬКІ ТЕПЛОМЕРЕЖІ"



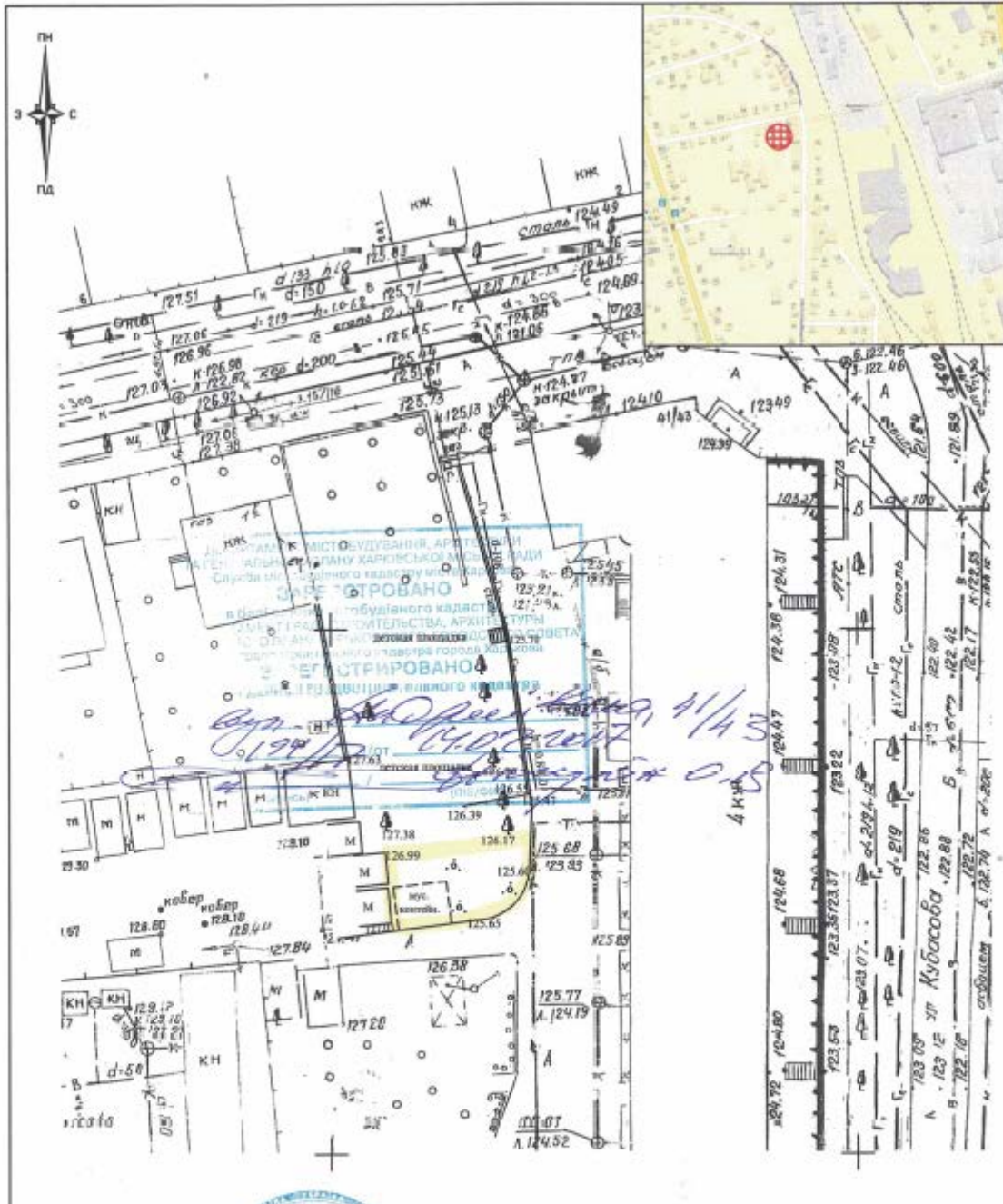
Кадастрова зйомка території для подальшого оформлення земельної ділянки по пров. Лопанський біля будинку №6 у Холодногірському районі м. Харкова

Топографічний план
М 1 : 500

Планшети М 1 : 500
№111-1А.93-3В

Масштаб	Рег.№
1 : 500	198/17

ФО-П Бердишев С.В.
м. Харків
2017 рік



замовник: КП "ХАРКІВСЬКІ ТЕПЛОВІ МЕРЕЖІ"

Склад	Бердихів С.В.	Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Андріївській біля будинку №41/43 у Холодногірському районі м. Харкова
		Топографічний план М 1 : 500

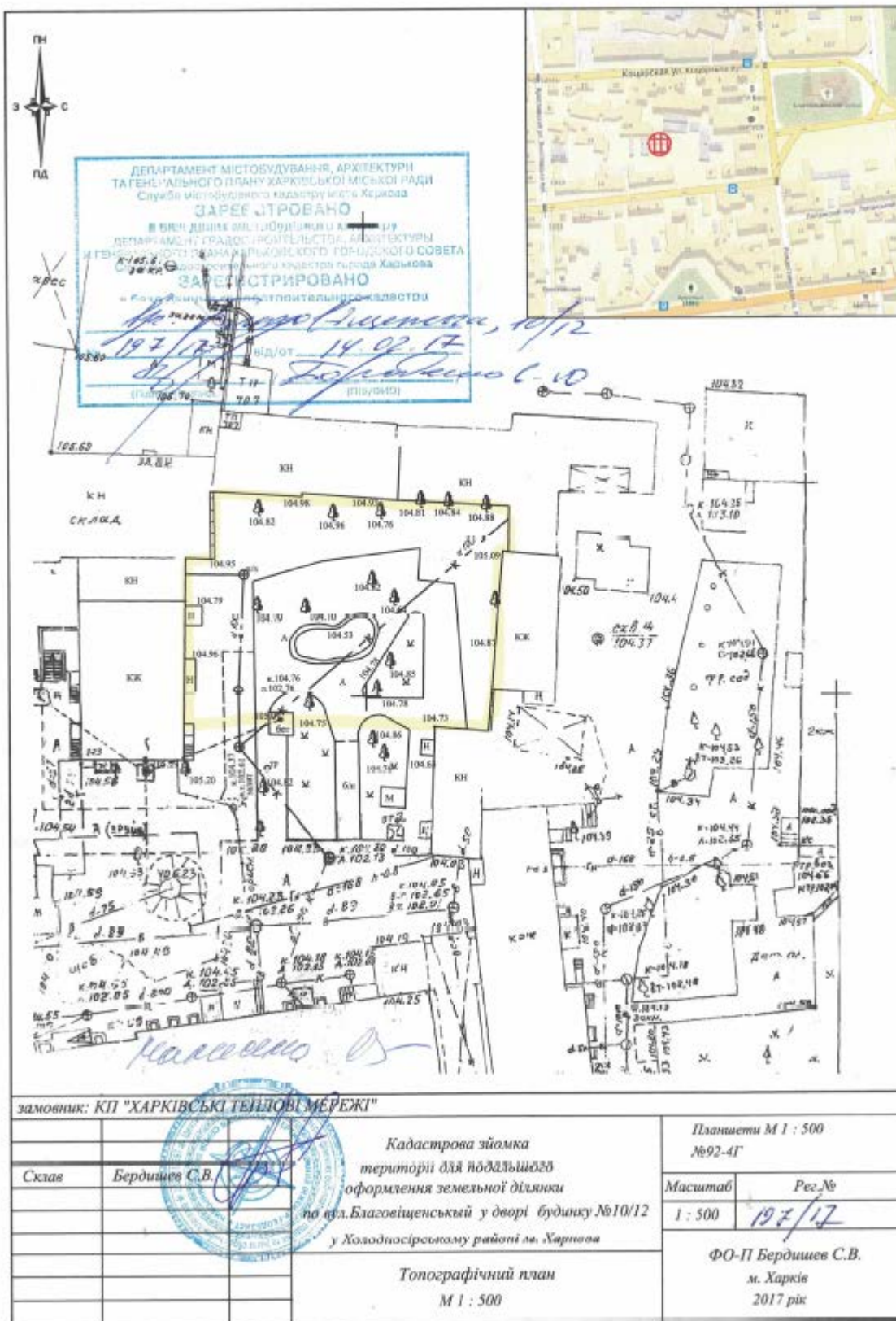
Планиметри М 1 : 500 №75-3А	
Масштаб	Рег.№
1 : 500	194/17
ФО-П Бердихів С.В. м. Харків 2017 рік	

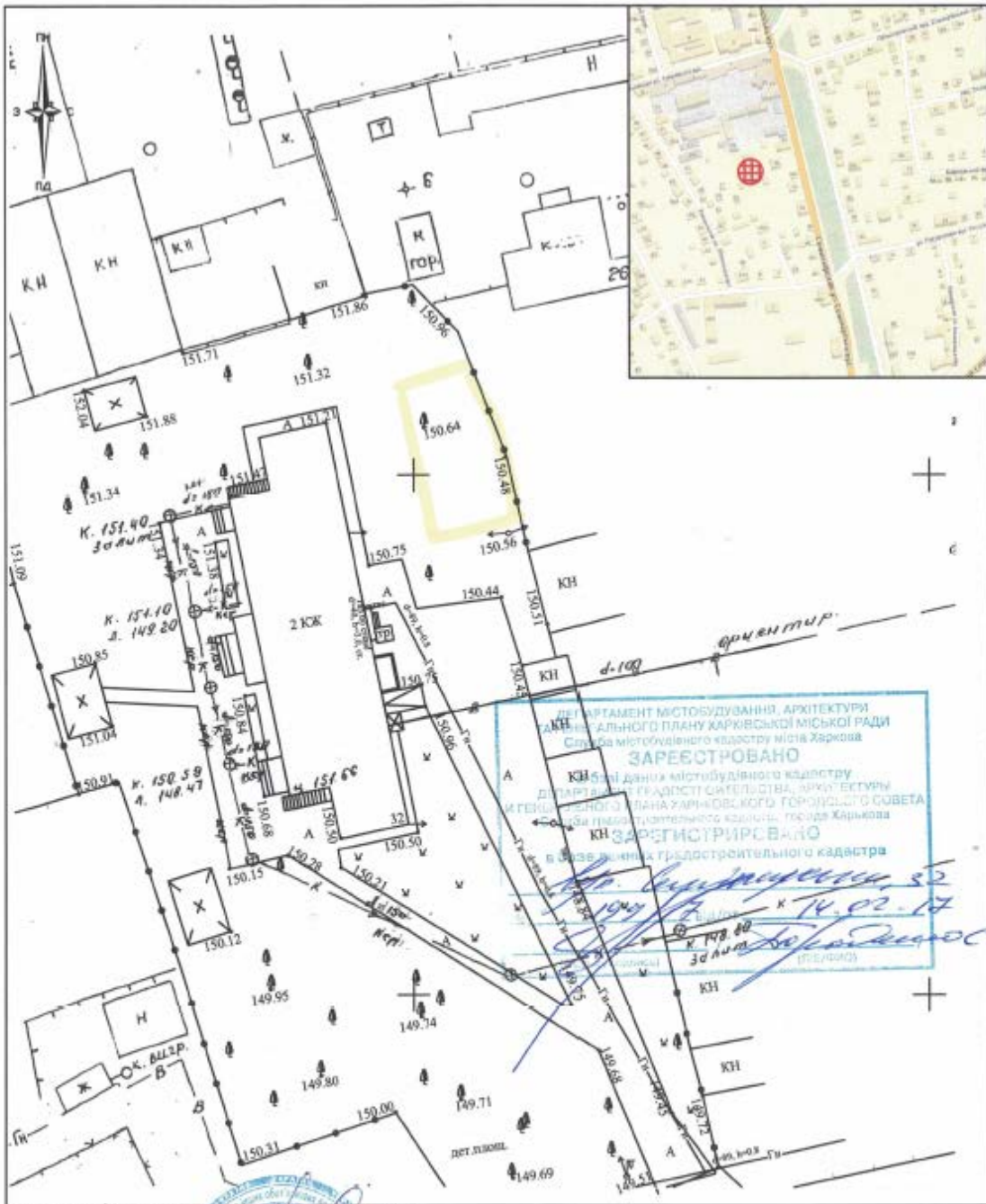


замовник: КП "ХАРКІВСЬКІ ТЕПЛОМЕРЕЖІ"

Склад	Бердишев С.В.	Кадастрова зйомка території для подальшого оформлення земельної ділянки по тров. Біологічному біля будинку №1 в Основ'янському районі м. Харкова
		Топографічний план М 1 : 500

Планшет: М 1 : 500 №191-2А	
Масштаб	Рез.№
1 : 500	193/17
ФО-П Бердишев С.В. м. Харків 2017 рік	





ДЕПАРТАМЕНТ МІСТООБУДОВАННЯ, АРХІТЕКТУРИ
 ТА ПРОГРАМНОГО ПЛАНУ ХАРКІВСЬКОЇ МІСЬКОЇ РАДИ
 Служба містобудівного кадастру міста Харкова
ЗАРЕЄСТРОВАНО
 КН цієї ділянки містобудівного кадастру
 ДЕПАРТАМЕНТУ МІСТООБУДОВАННЯ, АРХІТЕКТУРИ
 ТА ПРОГРАМНОГО ПЛАНУ ХАРКІВСЬКОЇ МІСЬКОЇ РАДИ
 МІСЬКОЇ СЛУЖБИ МІСТООБУДІВНОГО КАДАСТРУ
 ХАРКІВСЬКОЇ МІСЬКОЇ РАДИ
КН ЗАРЕГІСТРИРОВАНО
 в базі даних територіального кадастра

В. Бердичев
 К. 14.02.17
 Сл. А.М.М.

замовник: КП "ХАРКІВСЬКІ ТЕПЛОМЕРЕЖІ"		Планиметр М 1 : 500 №109-3Г	
Склад	Бердичев С.В.	Масштаб	Рег.№
	Кадастрова зйомка території для подальшого оформлення земельної ділянки по вул. Семінарській у дворі будинку №32 у Новобаварському районі м. Харкова	1 : 500	199/17
		ФО-П Бердичев С.В. м. Харків 2017 рік	
	Топографічний план М 1 : 500		

Annex 41 Place of location of the boiler houses



Picture 4.1.3.59 Place of location of the boiler houses

■ - block-modular boiler. 17 pcs.; ■ Boiler houses up to 3MW to be reconstructed in the existing building. 27pcs.; ■ Boiler houses over to 5MW to be reconstructed in the existing building. 14 pcs.