

Site: INCREASE OF THE HYDRAULIC CONDUCTIVITY OF R. TSAPAREVSKA ON THE TERRITORY OF THE VILLAGE OF MIKREVO, MUNICIPALITY. FLOWED THROUGH INNOVATIVE WATER MANAGEMENT METHODS (GEOCELLS) ",

Phase: WD, Amendment under Art. 154 according to the Spatial Development Act

Part: PLAN FOR ORGANIZATION AND IMPLEMENTATION OF CONSTRUCTION WORKS

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WORKING DESIGN

Amendment under Art. 154 according to the Spatial Development Act

**SITE: "INCREASE OF THE HYDRAULIC CONDUCTIVITY OF R.
TSAPAREVSKA ON THE TERRITORY OF THE VILLAGE OF
MIKREVO, MUNICIPALITY. FLOWED BY INNOVATIVE METHODS
FOR WATER MANAGEMENT (GEOCELLS)"**

ASSIGNOR: MUNICIPALITY OF STRUMYANI

CONTRACTOR: GEOCONSTRUKT LTD.

**PART: PLAN FOR ORGANIZATION AND IMPLEMENTATION OF
CONSTRUCTION WORKS**

2019

Manager:

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1. Output data

The design developments for the site were used as starting materials. The present development refers to the possibility of two-phase implementation of the project, as provided in the hydraulic and structural part. It should be noted here that before the start of construction works in phase 1, a more detailed inspection is needed to identify existing communications, underground and aboveground, which may not be reflected in the project. The guidelines described in this study concern both phases in the construction and installation work.

2. Geological and hydrological data for the site

1.1. Geological data

The engineering-geological survey of the site shows that only Quaternary deposits are revealed, represented by an artificial embankment and boulder-gravel deposits.

The detailed description of the geological characteristics to the present working technical project is presented in the part Geotechnical report, submitted to the documentation for the site. *Хидроложки данни*

The Tsaparevska River collects its waters from the Malishevska Mountain and originates from the southwestern part of the Eolak peak with a height of 1502 m. Tsaparevska, which gather in a common river 2.0 km below the village of Tsaparevo. The river is a right tributary of the Struma River and flows into it after the village of Mikrevo. The total length of the river is 22.5 km with an average slope of 52.5%. Neighboring rivers with similar characteristics of the catchment basins are the river Lebnitsa to the south, the river Breznishka and the river Sushitsa to the north.

The main orohydrographic elements of the Tsaparevska River catchment are shown in the following table.

Orohydrographic elements of the Tsaparevska river basin

Таблица 1

№	Characteristic	Measure	Amount
1.	Length of the river	km	22,5
2.	Average slope of the river in the section	‰	35
3.	Catchment area	km ²	76,0
4.	Average altitude of water. area	m	947,0
5.	Slope of the catchment area in the section	‰	26,0

The catchment area near the village of Mikrevo is $F = 76.0 \text{ km}^2$. The high waters for which the correction in the section of the village is designed are $Q_{1\%} = 48 \text{ m}^3 / \text{sec}$.

The riverbed in the upper mountain and in the middle part is narrow and stony, and in its lower part it is characterized by gravel deposits mixed with large boulders.

3. Access to the construction site

During the construction and installation works, the existing municipal roads along the river will be used for access to the site, as well as the construction of approaches (temporary roads) through sections of 150 m, which provide access to the riverbed.

4. Coordination activities

4.1 The construction site is determined and opened under the conditions and by the order of the Spatial Planing Law

4.2 When starting and performing the construction and installation works, it is necessary for the Contractor to coordinate all its activities with the Assignor according to agreed conditions.

4.3 Due to the fact that the site is located within the boundaries of a settlement (village of Mikrevo), it is absolutely mandatory for the technical manager of the site to coordinate the intentions to start construction with the operation of neighboring sites.

4.4 The construction works related to the correction will be carried out on the existing municipal roads along the river. No permanent vegetation is affected, so expropriations are not necessary.

5. Brief description of the object

This project was developed at the request of the contracting authority Strumyani Municipality in order to increase the hydraulic conductivity of the Tsaparevska River in the village of Mikrevo. In the spring of 2013 The high waters of the Tsaparevska River have caused partial excavation of the slopes on both banks and a critical situation has actually been created with the danger of flooding residential buildings and properties along the river on a section of 1212 m in the regulation of the village of Mikrevo. At the bottom of the river there are large gravel deposits mixed with boulders and the banks are disturbed. There is a real danger of the current coming out of the riverbed when conducting further high waters in the river.

The technical proposal provides for the use of category A geocells or those with equivalent characteristics. It is envisaged to divert the riverbeds and achieve hydraulic characteristics of the riverbed depending on the accepted in the calculations. The geocellular network is $h = 10$ cm high. Up to a height of $1/2$ of the height of the slopes, the aggregate of the geocells will be concrete C16 / 20, and in the rest - earth-rock material from the excavation activities. It is also planned to apply a clay seal with a thickness of $d = 5$ cm and hydroseed over it. The geocellular network will be fixed by rigid anchors N18 (located in horizontal and vertical rows every 1 m) and polypropylene ropes ($N > 0.9$ kN) to the slopes. The total length of the section to be corrected is 1212 m.

6. Organizational plan

The purpose of the Organizational Plan (OP) is to cover and clarify the conduct and implementation of the construction process, its hazards and risk areas, and moments in the implementation of construction and installation works, and the measures to be taken to prevent, limit and eliminate these dangers and risks.

In case of an unfavorable scenario of occurrence of an event (unusually high water levels in the river) during the execution of construction and installation works, a change in the volume of the individual stages of construction and installation work is possible. In this case it is necessary to re-geodetic survey and optimization of the individual quantities and technologies, on the individual positions for the execution of construction and installation works.

6.1. List of responsible officials

The rights and obligations of the individual parties in ensuring healthy and safe working

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conditions (OHS) are given in Section II of Ordinance №2 on the minimum requirements for healthy and safe working conditions when performing construction and installation work (Art. 5 ÷ Art. 29). as indicated in the attached samples.

The most important of them are the following:

The assignor or the person authorized by him shall appoint safety and health coordinators for the stage of construction execution.

The assignor or the person authorized by him shall not be released from liability with regard to the provision of OHS, regardless of the fact that in the process of negotiation one or more coordinators have been appointed for the implementation of the tasks under Art. 7 and 11.

The safety and health coordinator for the construction phase:

1. coordinate the implementation of the general principles for prevention of safety and health protection, according to the Health and Safety at Work Act;

3. update the plan for safety and health under art. 7, item 2 and the information under Art. 7, item 3, taking into account the occurred changes with the progress of construction and installation works;

The builder:

1. ensures:

a) complex OHS of all employees, incl. the subcontractors and the persons, independently exercising labor activity, during the construction and installation works of the constructions performed by him;

b) elaboration and updating of instructions for safety and health according to the specific conditions of the construction site by types of construction and installation works and in the case of the requirement of this ordinance cases;

(c) the necessary protective equipment, work clothes and their use in accordance with the regulations and depending on the assessment of the existing risks for each specific case;

d) the instruction, the training, the raising of the qualification and the check of the knowledge on OHS of the workers;

e) filing and reporting of the performed inspections, tests, technical maintenance and repairs of the equipment and working equipment (electrical and lifting equipment, construction

machinery, vehicles, etc.) and their constant control in order to eliminate defects that may be affected the safety or health of workers;

f) the necessary sanitary premises in accordance with the sanitary and hygienic requirements and the requirements for PSA, duration of construction and human resources;

g) maintaining order and cleanliness of the construction site;

(h) the division and organization of storage areas for different materials, especially in the case of hazardous materials and substances;

(i) requirements for the storage and disposal of hazardous materials used; (j) the collection, storage and transport of waste and debris;

(k) first aid can be provided to victims of accidents at work, fire, disaster or accident at any time;

2. take appropriate precautionary measures for protection of the workers from risks, arising from insufficient strength or temporary instability of the building structure;

3. organize an internal system for inspection, control and assessment of the condition of the safety and health of the workers;

4. determine in writing in job descriptions the obligations of the responsible persons (technical managers, foremen, etc.) and the workers for elimination of the risks in the work process and provide them with the necessary powers and resources; approves the organizational scheme for the relations between them;

5. take into account the instructions given by the safety and health coordinators, assigning their implementation to responsible persons in accordance with the normative regulation, the internal instructions and documents, the type of the construction, the presence of subcontractors, etc. ;

6. be responsible for the damages from pollution or damage of the environment as a result of the performed construction and installation works;

7. appoint persons responsible for application of measures for rendering first aid, for fight against disasters, accidents and fires and for evacuation; the number of such persons, their training and the equipment provided to them must be adequate to the specific hazards and / or size of the construction.

In case of necessity of changes in the process of work, the Builder, in coordination with the bodies of the State Agency "Civil Protection" and RS "PBZN", organizes the development

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and approval of:

1. plan for prevention and liquidation of fires and plan for liquidation of accidents;
2. plan for evacuation of the workers and of those on the construction site.

(2) The plans under para 1:

1. cover all possible cases of fires and accidents and the causes that caused them and contain the signal, announcing "emergency situation";
2. determine the behavior and obligations of each employee;
3. are placed in visible and accessible places.

(3) With the plans under par. 1, all persons admitted to the construction site shall be acquainted.

The team leader:

- determines the composition of the construction - installation team - contractor;
- carries out operational, technical and administrative management in accordance with the design and technical decisions, PIPSMR and the requirements of the Assignor;
- controls the implementation and development of schedules for installation works and quality plans;
- controls the implementation of all activities for transportation, excavation activities and laying of the embankments, provided in the technical design;
- coordinates the work between the individual brigades of the site;
- maintains constant contacts with the representatives of the Assignor for resolving the issues and the problems that have arisen during the execution of the installation works;
- monitors the timely preparation and completion of the technical documentation in accordance with the requirements of the Assignor and the regulatory documents.

Technical Manager:

- organizes, manages and controls the execution of the construction works by volume, time and quality / declares the necessary materials, blanks and mechanization /, in accordance with the working design, the working procedures and the quality plan;
- determines the tasks of the brigades on the basis of the calendar schedule and monitors their implementation;
- monitors compliance with the requirements of the technology / instructions / for the execution and installation, the normative documents and the factory documentation during the execution of the types of works;
- organizes the observance of the requirements for hygiene and technical safety at work and fire

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safety;

- prepares and signs the technical and reporting documentation for the site / acts, protocols, etc./;
- participates in the acceptance commission for the commissioning of the site and eliminates the identified shortcomings.

The foreman:

- receives the production task, studies it and accepts the manner of its implementation, in case of difficulties he consults with the Technical Manager;
- organizes and maintains proper organization and culture of the workplace;
- monitors the correct and quality execution of the types of construction and installation works, according to the working designs, the respective technological instructions and takes care of the protection of the materials and the equipment;
- monitors compliance with the requirements for hygiene, occupational safety and fire protection.

6.2 Restrictive conditions under HSP

- the envisaged organizational schemes must be strictly observed or updated in a timely manner, which is a position under Art. 11 item 3 of Ordinance №2 on health and safety at work (OHS).
- the category of the site requires for a safety and health coordinator for the stage of construction and installation work to be appointed a consultant-supervisor to perform all functions provided for in Ordinance №2 on OHS.
- A detailed organizational plan has been developed in part HSP

6.3 Control of construction and installation work

- to comply with the requirements of Ordinance 3 to the Spatial Development Act, for drawing up acts and protocols during the execution of the construction.
- to exercise author's supervision.
- to comply with the implementation technology described in the working design in parts.

7. Implementation stages of construction and installation work

We conditionally divide the execution of construction and installation work into stages, without this division being an obligation for deliveries, agreements with contractor and / or contractors, subcontractor and / or subcontractors, payments for certain activities and / or parts thereof, replacement of executive staff (regardless of the causes) and other similar situations.

Stage 1: Preparatory works;

Stage 2: Marking the routes and dividing the whole section, provided for correction, into sub-sections for construction and installation works;

Stage 3: Delivery and unloading of the necessary materials to the sections of the site;

Stage 4: Temporary diversion of the river waters;

Stage 5: Preparation of the river bed and soil base;

Stage 6: Execution of excavation and embankment works for shaping the design geometry of the riverbed;

Stage 7: Formwork, formwork work and concreting of the places designated for bottom thresholds;

Stage 8: Preparation of the ridge of the slopes;

Step 9: Laying geotextile;

Stage 10: Stretching of the sections of geocells along the slope and anchoring;

Stage 11: Anchoring the ends of the geocell sections in the river bed;

Step 12: Laying a concrete filling layer C16 / 20;

Step 13: Applying a filling layer of local materials;

Stage 14: Landscaping (clay sealing and hydroseeding).

8. Construction and installation work technology of implementation

In the preparatory works from stage 1 of the construction and installation work, the tasks for preparation of the construction site are performed - fencing, security (if necessary), construction of all necessary premises during the construction.

The entire section of the riverbed, provided for correction, is divided into sections of 150 m, on which the construction and installation works envisaged in the project will be carried out. This applies to phase 1 and phase 2 respectively.

Followed by delivery and unloading of the necessary materials for each of the planned sections;

Construction should be carried out only in the low water months of the year in order to simplify the temporary diversion of the river to the middle and to be able to carry out the strengthening of both slopes simultaneously. Gravitational drainage of the filter water during the excavation in the foundations can be achieved by starting the laying of the geocellular system. If

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necessary, water extraction should be organized for the implementation of fortification measures.

Machines that are provided for filling and compaction are:

- Bulldozer
- Wheel loader
- Small roller (G <5t)

The rolling direction is parallel to the river axis. The thickness of the rolled layers as well as the number of holes of the compaction roller for one layer will be determined after conducting an experimental compaction in an experimental section of the site.

Before the main construction it is necessary, where there are bushes along the route, to remove them. It is envisaged that this will be mechanized with bulldozers and excavators.

In the presence of fertile soil layer (humus) on the site, measures are taken for its removal and storage. This activity will be performed by means of a front loader, an excavator and a dump truck.

The excavations for the correction are in 100% heavy earth soils. They are performed mechanically with bulldozers, excavators, loading machines, as provided by the project, and where necessary - manually. The material that will later be used for embankments is transported to temporary landfills. Excess land masses are deposited in a permanent landfill and excavated.

The following is the stage of implementation of the bottom thresholds (Graph. Appendix № 2, part of hydraulic and construction). This includes formwork, formwork and concreting (C16 / 20). The design dimensions of the thresholds provided for construction are shown in Graph. adj. № 4.3.

Description of the technology and aspects of the application of a geocellular system in river corrections.

The correct placement of the sections is essential for the functioning of the system and must be confirmed by the contractor and / or engineer.

After the implementation of steps 1 to 8, described above, the application of geotextiles follows, according to the design prescriptions (graph. Appendix № 4.1, part: Hydraulic engineering and construction).

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Location of the sections along the ridge of the canal



Laying a filling layer - soil

Mechanical filling of the geocell sections in the reverse order of stretching using the appropriate filling material, according to the standard procedures for earthworks and in full compliance with the requirements of the project.

Do not use funds directly on the geocells.

The recommended height from which to apply the filling layer in order to prevent damage to the cell walls is 1 m (100cm). Mechanical filling of the geocell sections in the reverse order of stretching using the appropriate filling material, according to the standard procedures for earthworks and in full compliance with the requirements of the project.

Do not use funds directly on the geocells.

The recommended height from which to apply the filling layer in order to prevent damage to the cell walls is 1 m (100cm).

Note: Do not use vehicles directly on geocells.



Note: The recommended height from which to apply the filling layer in order to prevent injury to the cell walls is 1m (100 cm).



Filling layer of concrete

The slopes are filled to 1/2 of their height with concrete C16 / 20. The procedures for performing a concrete filling layer are performed by means of a concrete pump or gutter. No formwork is required.

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Geocells should be fixed with rigid J-anchors N14 and polypropylene ropes ($N > 0.9\text{kN}$) to the slopes. Due to the large thickness of the anchor rods (N14), in case of difficulty in bending them in the intended J-shape, the same rods can be properly cut into parts and welded in an L-shape, while maintaining the intended design depth. The anchoring length in the crown of the slopes of the flexible reinforcement system is $l = 1.00\text{ m}$, and in the heel of the slope $l = 0.90\text{ m}$. The fixing of the anchors will be done with the help of workers and the use of a manual pneumatic perforator (drifter);

Landscaping and vegetation (hydroseeding)

The application of hydroseeding on the slopes of the riverbed is an essential element of soil stabilization and erosion control solution. The implementation of the envisaged measures should be carried out according to the requirements of the project.

9. Construction mechanization and tools for construction and installation work

9.1. Necessary construction mechanization for construction of the site:

- Excavator with reverse shovel on a chain drive - 1 pc.
- Dump truck with a payload of 10 t - 3 pcs.
- Front loader with bucket width 115 cm - 1 pc.
- Small roller ($G < 5\text{t}$) - 1 pc.
- Concrete truck - 1 pc.

9.2. Necessary tools during construction:

Standard construction tools (optional)

- Hand tools - shovels, rakes, hammers and nails, model knives, wooden planks;
- Power tools - drills, saws, hammers, pneumatic hammers;
- Concrete plasters - trowels, trowels, sealants;
- Hand tools - levels, tripods, levers, laser signaling, receivers, props, twine.
- For connection when laying the sections - pneumatic stapler and 1/2 "(13mm) galvanized staples and air compressor and generator (60psig 4bar pressure) & manual pneumatic perforator (drifter).

10. Requirements for environmental protection during construction

Thus situated, the section provided for correction does not affect properties that would require expropriations and change of their purpose.

The technical solution does not have a negative impact on the environment.

The mechanization should move along the strictly defined roads, without violating the integrity of the slopes.

In dry weather, wind should not allow dusting of the environment by moistening the temporary roads with water carriers.

Do not allow spillage of inert material on roads and the environment.

In case of strong wind, cover the inert material with special covers.

In case of rainy and muddy weather, the removal and scattering of mud and earth masses from the transport mechanization of the construction site on the asphalted roads of the permanent road network should not be allowed. It is necessary to clean and wash the tires of vehicles.

To follow the instructions of CWMP / construction waste management plan /.

11. Requirements for construction and installation work for safe working conditions

Construction sites in urban areas, roads or on the territory of existing enterprises, including excavations for the implementation or repair of underground networks and facilities, are fenced with temporary solid fences according to the requirements of the relevant municipal administration and signaled with appropriate signs and plates. necessity - and with light signals.

The necessary fences on the construction sites and the excavations of the linear engineering networks outside the urbanized territories are solved with the investment project.

Necessary measures in the implementation of construction and installation work, in order

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to ensure safe working conditions:

- To provide the site with skilled labor;
- To conduct daily instruction before starting work;
- The working staff must be equipped with personal protective equipment and special work clothes;
- In extreme circumstances, such as storms, floods and earthquakes, follow the instructions in the HSP.
- To keep diaries for technical control and maintenance of the mechanization;

To comply with all requirements specified in part: Safety and Health Plan / HSP /.

12. Requirements for construction and installation work for fire safety

To comply with the restrictive conditions specified in the HSP in terms of fire safety and plan for elimination of fires and accidents.

Observe the requirements described in the project part, "Fire safety".

A fire panel with the necessary equipment and fire extinguishers specified in part 2 shall be installed on the temporary settlement on the construction site.

"Fire safety" of the technical design.

To prepare a fire safety plan, which must be agreed with the Assignor.

It is mandatory to comply with fire safety requirements in fuel and lubricant warehouses, and smoking and lighting fires are prohibited for any reason.

Specialized groups (if any) that will work with flammable and flammable materials will be warned in writing along with the materials to carry warning signs to place in the necessary places.

All vans must be equipped with a complete set of fire extinguishers located in a visible and easily accessible place.

Motor vehicles must be equipped with an upright and charged fire extinguisher, as well

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as a shovel and pickaxe.

The safety and health coordinator must request and constantly check:

- the condition and location of the plates referred to in Article 65 (2) of Ordinance № 2;
- the existence and publication of instructions under Article 66 (2), point 1:
- the presence of a fire technical commission with permanent and replaceable members, according to the implementation of the schedule:
- smoking areas: not allowed during work operations:
- existence of an order under Article 67 (3) of Ordinance № 2;
- condition and equipment of fire-fighting equipment.

In case of fire, sand, soil and water are used to extinguish it. Due to the high conductivity of electric current, water should not be used on live lines.

The evacuation from the site will be carried out on the temporary roads for construction works and the road network in the area of the site. The technical manager and the KBZ must provide the telephone numbers of the local medical services and fire and emergency safety.

13. Line schedule and duration of construction

A linear schedule (Text. Appendix №1) has been drawn up and applied for the construction to determine the duration of construction. According to them, the duration for the construction in the corrected sections is 3 months.

The schedule for the implementation of construction and installation work can be updated and developed in detail by the project contractor depending on the financing, resources and other conditions.

14. Legislation

- ORDINANCE № 4 of 21.05.2001 on the scope and content of investment projects;
- ORDINANCE № 1 OF JULY 30, 2003 on the nomenclature of the types of constructions;
- Ordinance № 7 on the minimum requirements for healthy and safe working conditions

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at workplaces and when using work equipment, prom. SG, no. 88 of 1999;

- Ordinance № 2 of 2004 on the minimum requirements for healthy and safe work during the execution of construction and installation works, promulgated, SG no. 28 of 2004;

- Ordinance Iz-1971 of 29.10.2009 on construction and technical rules and norms for ensuring fire safety;

- Ordinance № 8121h-647 of 2014 on the rules and norms for fire safety during operation of the sites (SG, issue 89 of 2014);

- Ordinance № 3 of 16 August 2010 on the temporary organization of traffic during the performance of construction and installation works on roads and streets (promulgated SG, issue 74 of 2010);

- Ordinance № RD-07/8 of 20 December 2008 on the minimum requirements for signs and signals for safety and / or health at work;

- Ordinance № RD-07-2 of 2009 on the terms and conditions for conducting periodic training and instruction of employees on the rules for ensuring healthy and safe working conditions;

- Ordinance № 3 of 2001 on the minimum requirements for safety and protection of the health of workers when using personal protective equipment at the workplace;

- Ordinance № 8 of 23.09.2004 on ensuring healthy and safe working conditions when working with air compressor installations and systems;

- Ordinance № 12 of 2005 on ensuring health and safety when performing loading and unloading works;

- ORDINANCE № 15 on the conditions, procedure and requirements for development and introduction of physiological regimes of work and rest during work;

- ORDINANCE for the safe operation and technical supervision of lifting equipment;

- Regulations for safety and health at work in electrical installations of power and district heating plants and on electrical networks;

- Ordinance № 3 of 31 July on drawing up acts and protocols during construction;

- Current regulations for the environment and waste;

And others depending on the types of work.

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