

SITE: *"Construction of pedestrian access to the tourist site" The Old Bridge" and elements of the urban environment for development of recreation and tourism development" INLAND 65677.701.9131*

LOCATION: IN LAND 65677.701.9131 ACCORDING TO CC. SVILENGRAD

Contracting Authority: CIVIL ASSOCIATION „TOGETHER FOR SVILENGRAD”

PART: GEODESY

PHASE: TECHNICAL PROJECT

EXPLANATORY NOTE

This project is based on a technical assignment, a letter of assignment from the client and a working basis provided by the designer for a part of the landscape architecture.

The main purpose of the development is to solve in a vertical and planned manner the location of a coastal promenade on the left bank of the Maritsa River, between the protective support wall of the river and Krajrechna Street, in the northern part and part past the town park. This alley will provide pedestrian access from the city park area to the Old Bridge of the Maritsa River. The project identifies suitable elevations and gradients to ensure efficient drainage and normal running of the alley and the relief of the landscaped area between it and the street, with minimal earthworks, as well as the necessary data for tracing the elements of the construction.

1. Flat level

A spatial leveling of relief points has been made. The results are shown in drawing No 1/3 (area level). The web is attached to PT 201, PT 202 and PT 203 from the BER of the cadastral map of the town of Svilengrad.

It is shot in plan and height and the built up protective wall of the river, in view of the project modeling of the terrain.

Since the PT 201, PT 202 and PT 203 are properly stabilized on site and are close to the construction, they can also be used as working levels in the Baltic Sea System.

2. Vertical Planning Project

The elevation of the characteristic points of the alley and the landscaped area between it and Krajrechna Street are determined. Typical of the solution is that the level of the lane in the tangent portion with the retaining wall is determined so that the upper edge of the metal railing mounted on the wall is 1.05 m above the pavement of the driveway (according to safety requirements).

The existing terrain is of relatively uneven nature, since it played the role of the Maritsa River dike. There is a displacement of about 5.00 meters within the site, with a pronounced slope in the south and east direction.

The average longitudinal slope in the south direction is about 1.2% and the transverse slope of the landscaped terrain in the eastern direction reaches 13-14. The alley itself is formed with a constant transverse slope in the east direction with a magnitude of 2.5%. In this decision, the surface water is directed from the supporting wall (which for its intended purpose has the highest elevation) to the adjacent street, where it is covered by regular drainage points (eddies) and is taken to the existing sewerage system Street. Of the newly designed building (away from it). Design slopes are oriented as shown in the draw. No 2/3.

Vertical planning was developed by the method of the red horizons with a height of the section $h = 0.20 - 1.00$ m (according to the slope), in combination with single elevations of individual characteristic points of the construction (fig.2 / 3).

3. Tracing plan

In drawing 3/3 is depicted the geometrical solution for the construction site with the necessary data for tracing the alley in a polar way from the above mentioned working points of the WGB for the cadastral map of the town of Svilengrad located nearby the object which can serve also for working geodetic basis (WGB) for construction.

The rectangular coordinates of the exit points as well as of the points determining the perimeter of the alley are given in the Bulgarian Geodesic System 2005 coordinate system in the following coordinate registers:

COORDINATING POINT OF REGISTER OF OUTSIDE POINTS

Coordinate system Bulgarian Geodesic System 2005			
Baltic altitude system			
Point №	X [m]	Y [m]	H [m]
WP 201	4626754.500	557731.510	55,973
WP 202	4626573.413	557784.724	51,683
WP 203	4626382,211	557808,937	51,236

COORDINATED REGISTER OF DETERMINANT (DETAILED) POINTS - PIPES ON THE CONTROL OF ALLEY

Coordinate system Bulgarian Geodesic System 2005		
Point №	X [m]	Y [m]
1	4627390.636	558672.838
2	4627388.823	558680.115
3	4627387.735	558684.482
4	4627385.559	558693.214
5	4627383.383	558701.948
6	4627371.230	558668.002
7	4627369.416	558675.280
8	4627368.328	558679.646
9	4627366.152	558688.379
10	4627363.976	558697.112
11	4627356.674	558664.375
12	4627354.861	558671.653
13	4627353.773	558676.019
14	4627351.597	558684.752
15	4627349.421	558693.485

In developing this project, the requirements of the "Instruction for elaboration, implementation and maintenance of plans for vertical planning" of MRDPW Ministry of Regional Development and Public Works - Head office of Geodesy and Cadastre Sofia - 1998

Co-ordinated:

CONTRACTING AUTHORITY	CIVIL ASSOCIATION „TOGETHER FOR	
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	<i>SVILENGRAD''</i>	
<i>PART L. ARCH.</i>	<i>I.arch. V. Tencheva</i>	
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2018 year.

ЗАЕДНО С ОПИШВАЩИ

