LAND STUDY FOR THE ANNEXATION OF PARKLAND IN DETA TOWN, TIMIS COUNTY

STUDIU CADASTRAL ÎN VEDEREA ALIPIRII TERENULUI AFERENT PARCULUI ORAŞULUI DETA, JUDEŢUL TIMIŞ

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Abstract: *In this paper is presented a related parkland surveying in Deta town, Timis County. This field operation was performed in order to annexation of certain plots. Subsequently, it will be divided a plot of land for rearrange the tennis court through a program funded by the EU and to modernize the park in accordance with the existing urban plans.*

Key words: *surveying, annexation, detachment*

INTRODUCTION

Deta town is a small administrative city center, of economically and culturally microregional importance. The city is located in the western part of the country, between Timisoara and Serbia, at a distance of 44 km from Timisoara on Route 59 and 118 km from Belgrade.

The city is located in the Bârzava low plain, and is crossed by Bîrdeanca River, tributary of Bârzava, which acts in flood periods as a valve of Bârzava. City has northern latitude of $45^0 23^{'}$ and $21^0 12^{'}$ east longitude, being situated at a level of 91 meters above the sea.

Town territory is dominated by a temperate continental climate. Generally, the greatest influence has the maritime air masses from east and west, with high humidity, and then the subtropical continental east currents from the Mediterranean Sea.

Because of these climate characteristics, winters are quite warm, summers are hot and springs and autumns very short.

Deta polarized, both economically and socio-cultural life of Denta, Moravita, Gătaia, Voiteg, Jamu Mare, Giera and Giulvăz settlements.

MATERIAL AND METHODS

Terrestrial measurements were made with a total station Leica TC 605. He made a point of leaving open indulgent 2102, metallic bolt cover to cover 2101 and the verification of the Catholic Church known coordinates. Field measurements were made with a total station Leica TC 605.

In this study was made a leaving open indulgent from 2102 point, metal bolt with visa on 2101 and the verification visa on the Catholic Church as known coordinates. Closing the bolt traverses was made to cover the bolt 5114 with visa on 5113 bolt and 5112 respectively.

To prepare documentation and after the measurements, data recorded in electronic tachymeter memory - total station Leica TC 605, have been transferred to computer memory using the Data Transfer menu for this device.

RESULTS AND DISCUSSIONS

Processing of measured data to obtain the coordinates of points measured was performed with 4.4 TOPOSYS program.

The land area that separates the complex was determined by analytical means using integrated software environment – AUTOCAD, and resulted the land area of 133 934 m^2.

In order to provide the data necessary to rearrange the complex, stereographic coordinates of points are in the 1970 system, and the rates were determined trigonometric in the local system.

Using the environmental export functions TOPOSYS - DXF format (Data Exchange File), after processing of field measurements using AUTOCAD and LISCAD were prepared following documents:

- Call to request information from OCPI Timis and Framework Convention among beneficiary and authorized individuals;
- Statement;
- Description of topographic and geodetic works: field measurements consist of execution of main traverses, formed from ten stations (Table 1).

Table 1

Item no.	**Description**	**X**	**Y**
– old items -			
1	Catholic church Deta	439854.19	204685.40
2102	Bolt	439491.01	204556.84
2101	Bolt	439420.77	204555.58
5114	Iron stake	438774.92	204771.59
5113	Bolt	438808.85	204901.52
5112	Bolt	438713.80	204505.62
– new items -			
1002	Iron stake	439391.55	204644.39
1003	Bolt	439325.69	204674.72
1004	Bolt	439246.27	204732.01
1005	Bolt	439315.65	204862.55
1006	Bolt	439213.65	204870.26
1007	Bolt	439109.20	204742.61
1008	Bolt	439156.74	204907.19
1010	Wooden stake	438838.82	204736.15

Calculation and reporting points removed, was made by using TOPOSYS 4.4., software, the average error for determining the planimetric coordinates is ±5 cm.

- Calculation of land areas;
- Ten new points description of the station;
- Extract of cadastral plan of Deta town, scale 1: 5000;
- Location plan area, scale 1: 5000;
- The situation at the scale 1: 2000;
- The layout and demarcation of the annexation proposal;
- The layout and demarcation of land attached;
- Traverses sketch;
- *DXF file type with old and new contour plots;
- CP file for annexation operation.

CONCLUSIONS

Documentation was performed for Deta Parkland City annexation, for buildings located on administrative area of the town, identified by Topo: 885 / 1, 885? 2, 886, 879 / b, 887/1/a.

Based on this documentation was obtained related detachment of a land plot related to the tennis court, in order to rearrange it through a program funded by the EU.

REFERENCES

1. *** Imobiliar/1996 Cadastre Law.
2. ***Order number 634/2006 for the approval of the content and manner of cadastral documentation for registration in the Land Registry, as amended by Order 134 of 2009.
3. ***Prospects Zeiss and Leica specialized firms.