

Conclusion: During the study of the intersection, deficiencies in its operation were revealed, namely the lack of means of regulation. Further research will propose the measures to eliminate or reduce the shortcomings.

#### Literature

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### **TRAFFIC SAFETY AUDIT WITH HELP OF THE ELEMENTS OF POLTAVA'S TRANSPORT NETWORK**

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In today's world, we cannot imagine any of 24- ours without traffic. Every day, millions of people around the world go to work, study, to have rest, etc. The relevance of the issue of road safety in Ukraine has increased significantly simultaneously with the motor vehicle fleet raise. The peculiarity of the road safety audit is that it is performed by a team of independent experts who have sufficient experience in the field of road safety engineering. According to the Law of Ukraine "On Amendments to Certain Laws of Ukraine Regarding Highway Safety Management" dated October 17, 2019 No. 200-IX, which amended the Law of Ukraine "On Highways", January 1, 2021 the highway safety audit is mandatory conducted on international and national

highways from November 16, 2021.

The purpose of the study is to investigate and identify road safety deficiencies on the elements of the Poltava's transport network. The shortcomings are determined at the object of the study, with the help of the audit scheme by implementing the procedure for assessing the impact of the road as a whole, as well as each of its elements and/or its components on ensuring road safety and preventing traffic accidents, in particular, serious once. All this investigations are taken into account and carried out all the stage of developing the project. [2].

The research object is the goal achievement duty chosen the cross road of st. Hrushevskiyi and Kyiv highway in Poltava, because it is a part of Kharkiv-Kyiv highway of the state importance with a very saturated intensity and different composition of traffic flow.

The intensity of the traffic flow was identified by the natural method and the composition of the traffic flow was also determined due to the object of the study. In order to describe the research object, an intensity mapping was provided and two schemes of phase face drive away with corresponding intensity in each direction were developed (drawing 1, 2). Based on the composition of the traffic flow, winter reduced intensity was found out and the summer reduced intensity was forecasted. According to the available methodology, promising summer intensity was predicted (Table 1). [3].

Table 1 - Calculated traffic intensities at the object of study

Road direction	The given intensity in winter (auto/h)	The given intensity in summer (car/hour)	Estimated intensity in summer (hours/day)
NII-I	700	879	16839
NI-III	60	120	2298
NIII-II	450	470	9003
NII-III	300	330	6321
NIII-I	150	170	3256

The conducted analysis showed [4], that pedestrians cross the road on the street

Hrushevskiyi in an unauthorized place, and provoke an accident in such away. Taking into consideration the high intensity of this driving direction, which is a connecting link on Kharkiv-Kyiv highway, it is also necessary to expand the carrigeaway along the st. Hrushevskiyi.[5]

Simulations tolls are offered to be used in order to identify the risk of accidents. PTV Vissim software is used as a simulation tool. [6]

In conclusion, it should be mentioned the designed schemes were offered to locate technical means of regulation , within the research object based on the natural method and the analyses of traffic accidents.

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### **THE NEWEST AMENDMENTS TO THE LEGISLATION ON THE TRAFFIC SAFETY DUE TO EUROPEAN INTEGRATION**

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