

Девета годишна конференция

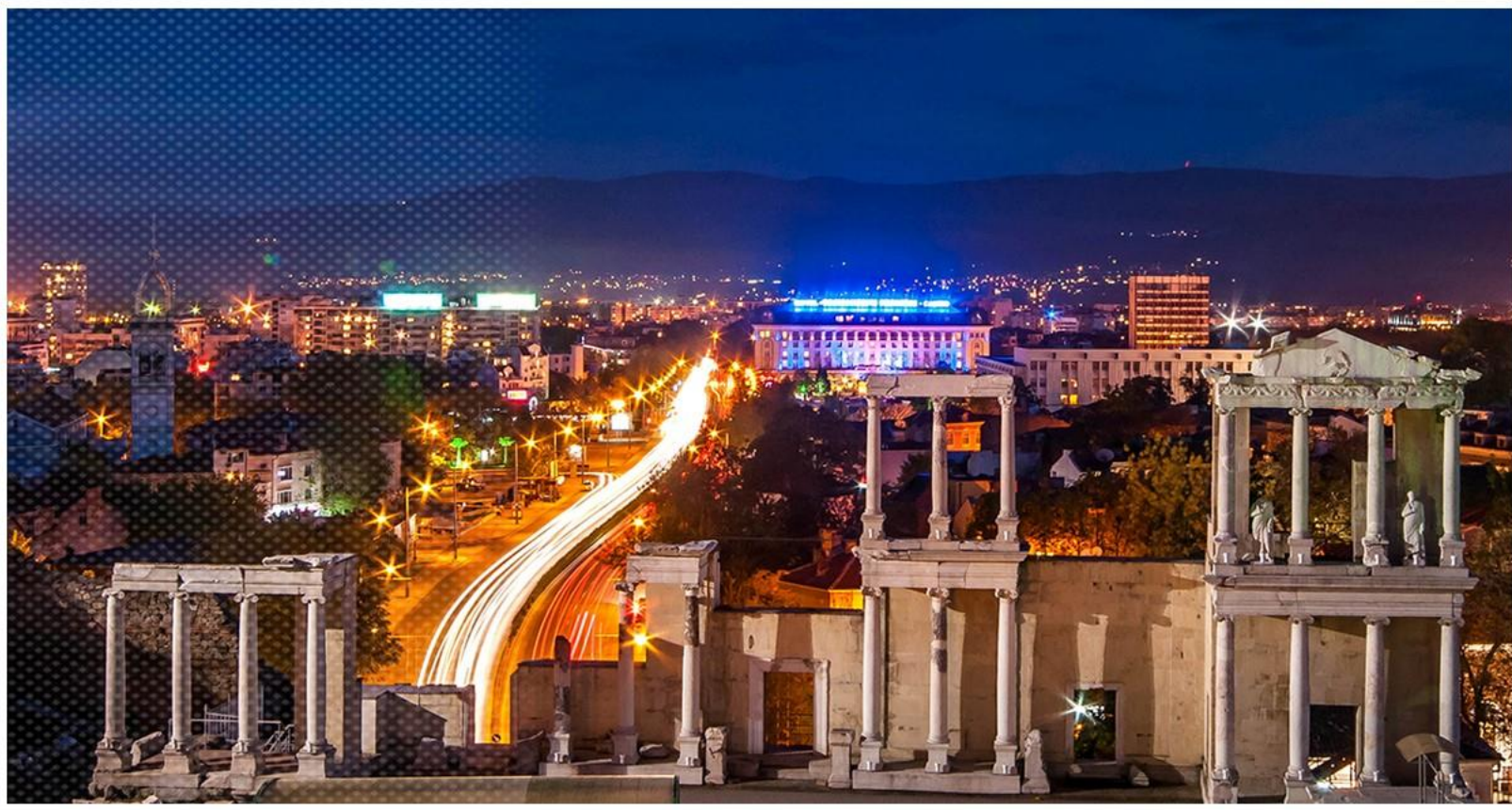
19-20 септември 2023,
Гранд хотел Пловдив, гр. Пловдив



БЪЛГАРСКА БРАНШОВА АСОЦИАЦИЯ
ПЪТНА БЕЗОПАСНОСТ

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Road safety audits - from a
bureaucratic procedure to a tool
for ensuring safe road
infrastructure



БЕЗОПАСНА ПЪТНА ИНФРАСТРУКТУРА





➤ Road safety audit is:

- INDEPENDENT
- DETAILED
- SYSTEMATIC

technical safety check relating to the design characteristics of a road infrastructure project and covering all stages from planning to early operation.



➤ **Stages:**

- **Before approving the conceptual design;**
- **Before approving the technical design;**
- **After signing the act under Art. 176, para. 1 of the Territorial Planning Act;**
- **At the initial operation of the road.**



- **Creating roads that reduce the number and severity of traffic accidents;**
- **Reduced costs by identifying safety issues and fixing them prior to road construction/repair;**
- **Promoting awareness of safe design practices and increasing the quality of projects;**
- **Considering the human factor in all aspects of design.**



- **Road safety audit costs:**
 - **Fee for the work performed by the auditor.**
 - **Time needed to perform the audit;**
 - **The complexity of the design.**
 - **Implementation of recommendations from the audit report.**
 - **Missing at the design stage;**
 - **Organization of the post-implementation stages of the object?**



➤ **Benefits:**

- **Strictly individual depending on the specific site, road accident and victims;**
- **Two scenarios – with or without road safety audit;**
- **Only one of them can be rated.**



Coefficients for reducing traffic accidents and their consequences

Safety measures	Accidents	Dead	injured
Improved sight distances	10%	10%	10%
Removing obstacles in roadside area	0%	50%	15%
Moving obstacles in roadside area	0%	40%	15%
Installation of crash barriers	0%	25%	25%
Installation of crash barriers in median	0%	18%	13%
Installation of buffers	0%	70%	30%



➤ **Problems from previous years :**

- **Small scope of mandatory roads subject to road safety audit;**
- **It is not assigned by the owner of the road;**
- **Not awarded at all stages;**
- **Gaps in the quality of the audit report;**
- **Auditors do not perform this activity regularly;**
- **No actions regarding the identified problems.**



- **Insufficient coverage of mandatory roads subject to road safety audit**
 - ~ 2400 km before 2021;
 - ~ 13 100 km after 2021;



- **The audit is not assigned by the owner of the road**
 - **Builder's contract;**
 - **Contract of the supervisor.**



- **Not performed at all stages**
 - **Difficult to implement measures in the stages after the completion of construction.**

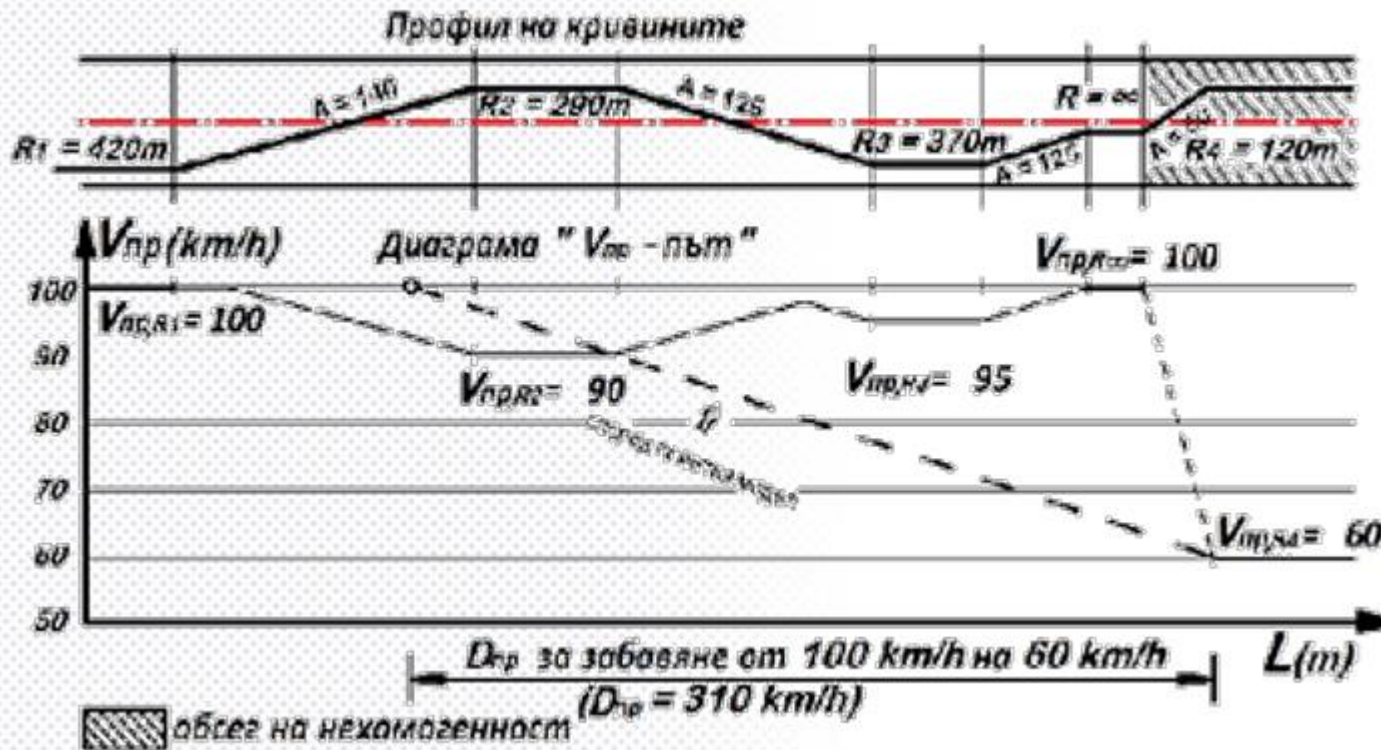


➤ **Gaps in the quality of the audit report**

- **Speed diagram;**
- **Sight distances;**
- **Overtaking;**
- **Safety zone.**

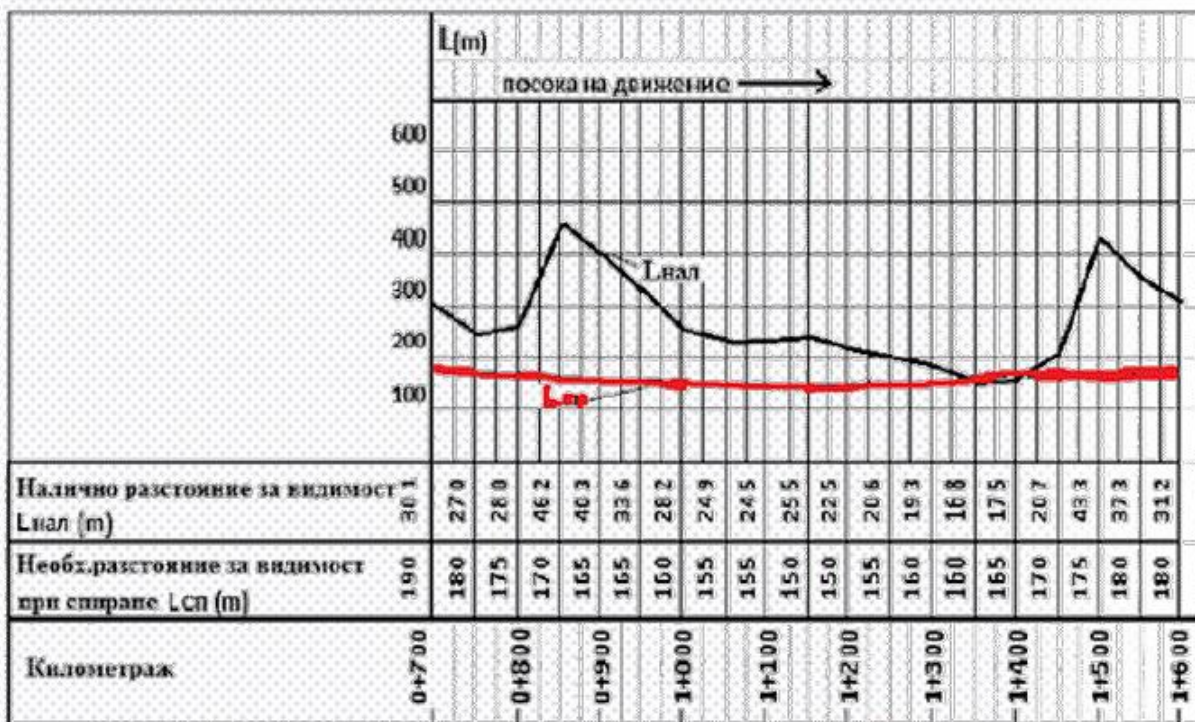
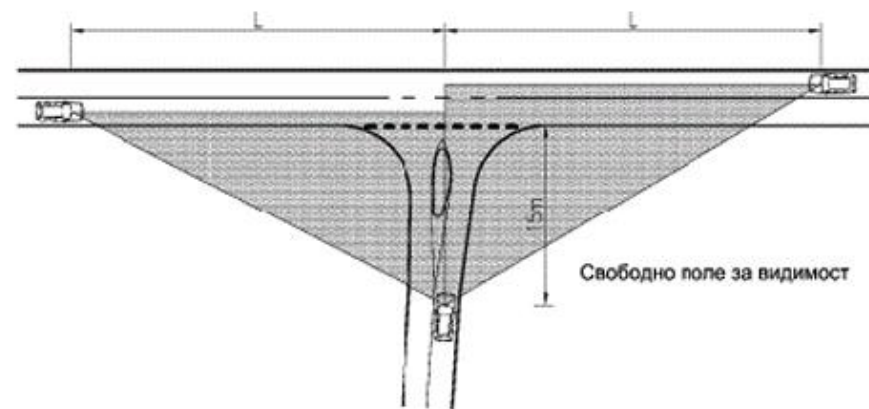
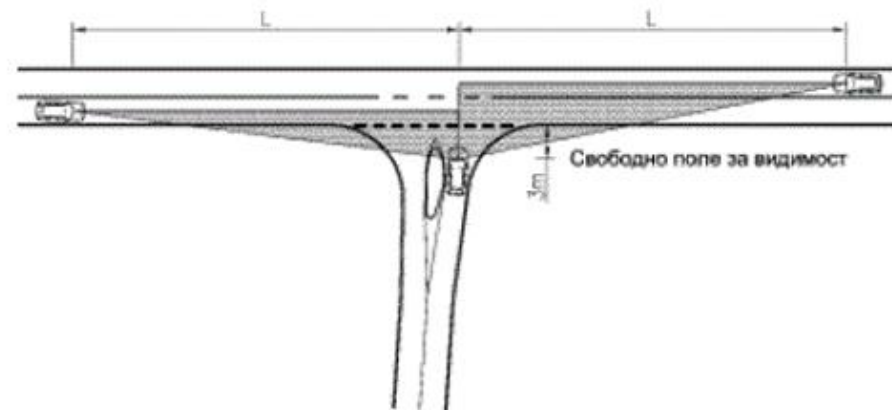


➤ Speed diagram



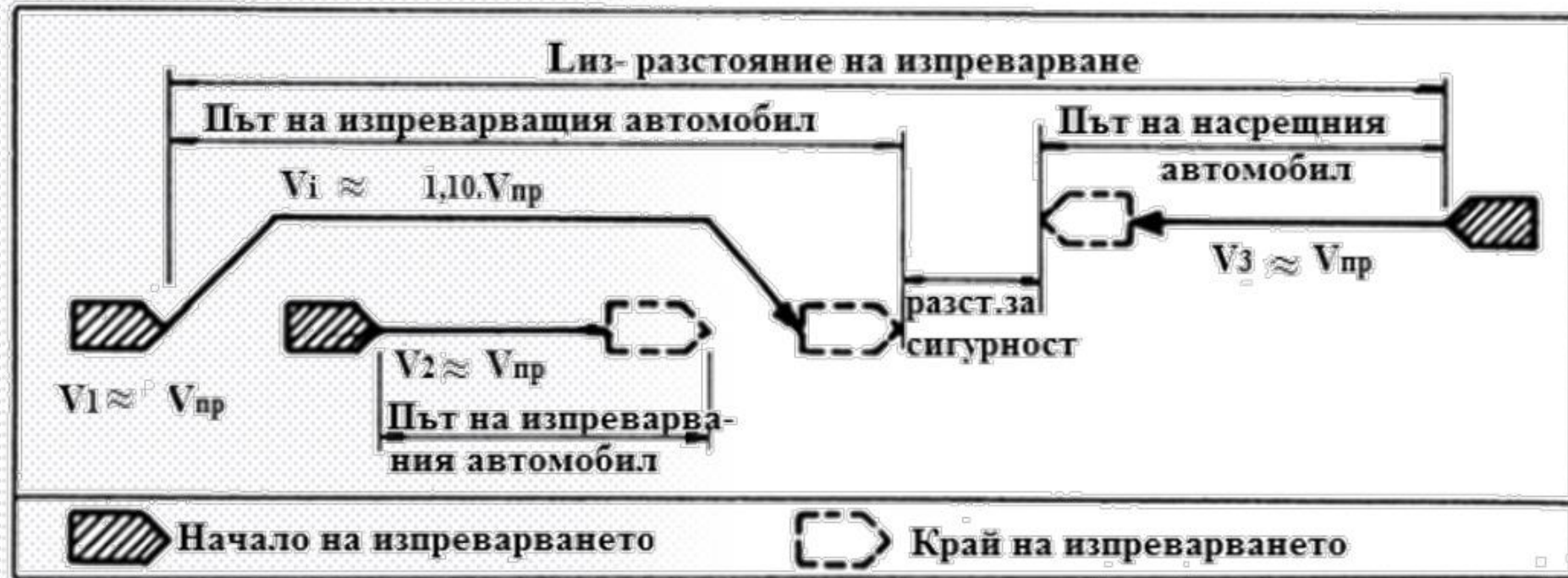


➤ Sight distances





➤ Overtaking





➤ Safety zone





- **Auditors do not perform this activity regularly**
 - **There is still not enough engagement of the auditors.**



- No action is taken to remedy the problems identified in the audit report
 - Organization of the post-implementation stages of the object?



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