



Calming the through road in Šebrov-Kateřina



2nd Progress Report



1. State of the project

Since the 1st progress report in September 2009, following activities have been undertaken:

- accident analysis
- road safety inspection
- speed survey
- intersection sight distance survey
- road safety measures proposal

All the activities were conducted by me and CDV consultants Pavel Skládany and František Štefunka. Findings and proposals were summarized in a report. It was presented at the municipal council, finalised and transferred to the mayor. The abstract is presented at the municipal web site as well.

2. Summary of activities

In following text, findings are summarized briefly.

Accident analysis

In Šebrov-Kateřina, there were 22 accidents within 3.5 years, resulting in 3 light injuries. Therefore, it cannot be considered as a typical high risk site. However, the most accidents are related to inappropriate speed (9 rear-end collisions and 7 run-offs in curves).

In Šebrov, part of the road is in slope. It was discovered that 4 accidents happened while driving uphill, while 12 accidents happened while driving downhill. It is another proof of inappropriate speed.

Road safety inspection

Anyway, accident analysis is meant only to be complementary. The main stress is being put on road safety inspection which indicates insufficiencies and risks which might cause or contribute to accidents.

Road safety inspection indicated following risks:

- inappropriate speed due to wrong through road design (excessive width)
- barrier effect of through road and missing pedestrian crossing facilities
- dangerous manoeuvres (parking at through road, dangerous overtaking...)
- dangerous motorcyclists' behaviour (especially speeding and noise)

Speed survey

CDV stationary Doppler radars were used to measure speed at selected profiles. By no surprise, the outcoming speed was over the 50 km/h limit, in some profiles even with 50 % speeding rate.

This discovery can be underlined with the information provided by the Police officer who performs the speed checks in Šebrov-Kateřina on a regular basis. During 2-hour check, the Police investigates up to 30 cases of speeding. The highest value observed by Police was 146 km/h!

Intersection sight distance survey

The issue of intersection sight distances is closely linked with the speed as well. Five risk intersections in Šebrov-Kateřina are located on the inner side of the curves. Following values of sight distances were compared:

- real values, obtained by portable laser radar
- recommended values according to the standard (depending on the speed)

In conclusion, no intersection complied with the standard. Some of them complied only up to 50 km/h speed – however, the real speed is higher, as mentioned in the the previous paragraph.

Road safety measures proposal

Summing up previous findings, following road safety measures were proposed:

- adding pedestrian crossings, mainly at bus stops
- adding traffic islands at entrances
- modification of through-pass design (especially narrowing)
- establishing calmed Zone 30 at minor roads
- installing a permanent stationary radar

3. List of further activities to conduct

4. Define timetable for the remainder of your project

5. Identify problems / areas where you need improvements / further assistance

In 2010, the mayor is arranging a meeting with the Police and the road administrator. The initial idea of the report elaboration was to provide mayor with the material to support him in argumentation with these two bodies. Their agreement is vital for the realization of proposed measures.

Me and CDV consultant Pavel Skládany have promised to help the mayor with the argumentation. However, I cannot foresee further progress within the ShLOW! timetable – from now on, nor me nor CDV has no direct influence on it.

Annexes

- 1) report for the mayor
- 2) completion certificate

The report is not intended to be distributed. Both annexes are in Czech.