



Problems Arising in the Water Drainage System of Automobile Roads and the Use of Modern Methods for Their Elimination

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Abstract: *The drainage system currently used on the highways of our country, their current condition, efficiency, ability to hold water on the highways during the rainy season. In addition, there are difficulties and problems in the process of repairing them. Advantages of modern drainage systems used on highways in urban centers of developed countries. In addition, the economic efficiency of the water drainage system, its service life, and its use in our country were covered.*

Keywords: *drainage system, gutter, drainage, reconstruction, operation, engineering communication, speed, traffic, precipitation, polyethylene waste.*

Enter. Public highways are state property and are open to highway users. Public highways provide transportation of goods and passengers between cities and other settlements to meet the needs of the population, socio-economic and defense needs of the state.

Public highways are divided into international, state and local highways.

According to the international agreements of the Republic of Uzbekistan, the roads that are part of the international highway network are included in the category of highways of international importance.

The administrative centers of the regions and districts of the Republic of Uzbekistan provide transportation between cities, cultural and industrial centers subordinate to the region, and these centers are connected by roads of international importance, airports, railway stations, Ports and docks, as well as roads connecting with neighboring countries are included in the category of highways of state importance.

Roads connecting the administrative centers of districts with towns, villages and villages, as well as with roads of state importance, are included in the category of highways of local importance.

The main part. Currently, there are 309,495 km of highways in our country, of which 42,869 km are public highways. It can be seen from this that there is a drainage system on both ends of all these roads.[1]

These roads mainly pass through city centers. The weather in our country is very changeable, that is, it is natural that there is a lot of precipitation in spring and autumn. Heavy rainfall requires faster removal of water from highways. Because a large amount of water remains on the surface of the road, it causes softening of the base and, as a result, deterioration. Therefore, the removal of water is the most effective. In our country, the water on the highways is removed using gutters. But nowadays, due to the abundance of precipitation, the accumulation of various foreign objects in the drainage system, i.e., it is filled with waste and overflows onto the surface of the road as a result of blocking the waterway. is going It serves as a major reason for damage on the surface of the coating, i.e., increased roughness, subsidence of the coating, cracks, and fractures.[2]

If we pay attention to the construction of highways in developed countries, they also use rails. In addition, one of the best and most effective solutions is the drainage system. In the base part of the road, there is a tunnel-like drainage system, it is convenient for people to move, it is convenient to place engineering communication tools (communication cables, electric currents, gas pipelines).[3] The main thing is that the coating is not damaged during the repair and installation process.

In our regions, many problems arise in the renewal and repair of engineering communications, drainage systems.



Figure 1: Placement of trays in our country

That is, after opening a separate place where they will be placed, the coating is laid. Over the years, during the repair process, the coating is degraded.[4] At that time, it will not return to its old solid state.



Figure 2: disposal of polyethylene waste into the drainage system



Figure 3: violation of the operation of the water drainage system

Summary. Currently, we need to use the experience of developed countries in the construction of highways. By this we:

- we ensure that the water drainage system is perfect;
- to reduce the serious impact of water on the road during the rainy season;
- facilities for their repair;
- to reduce the impact on road traffic during the repair of communication means and drainage system;-uzoq muddatli suv qochirish tizimiga ega bo'lish;

- reduction of economic costs as a result of extension of working life;
- ecologically successful aspects
- reducing floods on the roads due to the large amount of water



Figure 4: Modern drainage system.

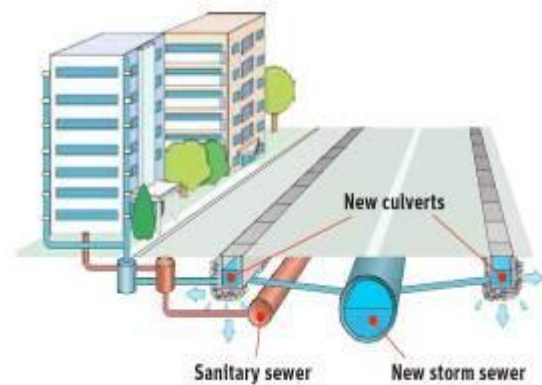


Figure 5: Drainage facilities placed at the base of city streets and roads.

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