

COUNTY GOVERNMENT OF BOMET
BOMET MUNICIPALITY
P.O. Box 19-220400 BOMET, KENYA
10 SEP 2021

Good afternoon Sir/ Madam. Thank you for addressing the problem of drainage system in Silibwet town center. We can now do our business safely without any problem. We request that you do it Swiftly in future when such problems occur.

Regards. David Sigei, Silibwet town rep.

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Introduction

Poor drainage can lead to flooding, resulting in property loss, and people may even be forced to move to escape floodwaters. Flooding may also damage water supply infrastructure and contaminate domestic water sources.

Most of the drainages had been left unattended for long hence making the work difficult. Stone lining to be carried out in most storm water drainages.

Silibwet Town, and most especially Hot Wax Hotel Street has no detailed design of stormwater drains carried out by engineers also climatic and hydrological data was not taken into account from the initial design.

The community members, Environmentalist, Town chair and the two area administrators visited the site where complain had been raised concerning floods which occur mostly during heavy rainfall.

Business and plot owners were able to describe areas where major flood problems occur in the town and helped in providing information about previous floods, some of which are best described in pictures attached.

Findings

- 1) Silibwet has Inadequate integration between road and urban storm water drainage lines followed by blockage of drains by solid wastes are the major causes of flooding in the area.

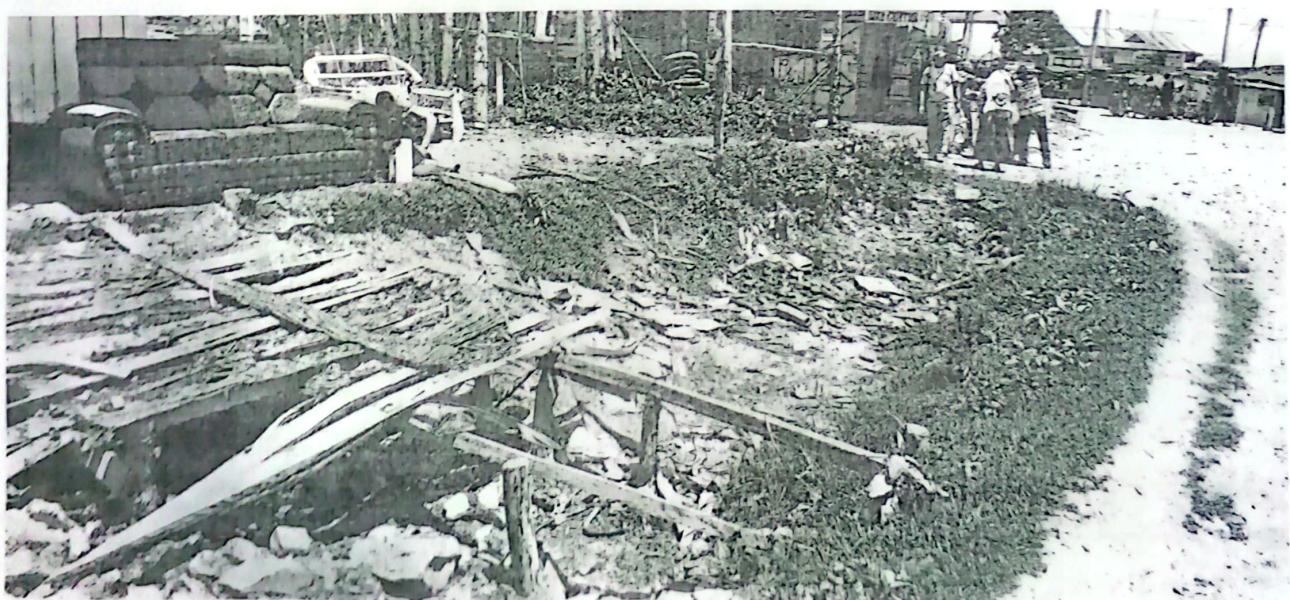
- 2) Sewerage connection and solid waste dumping reduce the effective carrying capacity of drains.
- 3) To safely discharge the flood generated within the area the urban storm water drainage facilities should be revised and designed .
- 4) Urban storm water drainage facilities should be contracted with roads for timely accomplishing and good workmanship.

Attached are pictures showing previous flood in the very same area where complain has been raised:





Previous Floods



Blocked Drainages



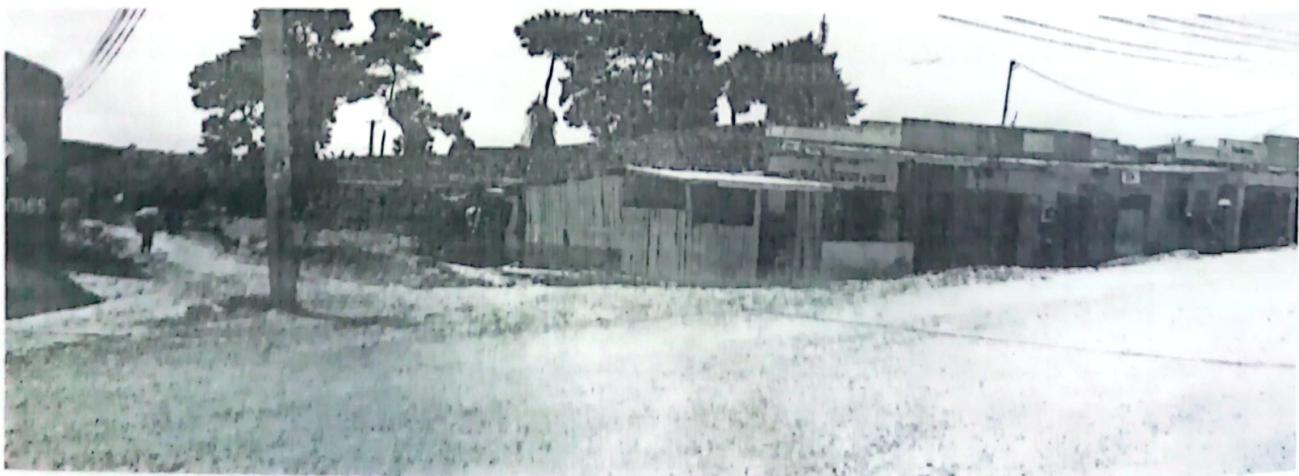
Business/Capentry works operating in an already blocked drainage

RECOMMENDATIONS

Redesigning and constructing drainage systems require expert advice from engineers to make sure that water flows away quickly and smoothly and is disposed of in a surface watercourse or soakaway.

This can be done by installing Culvates across the tarmiac road, passing through the road reserve to avoid creating problems with plot owners and the communities downstream nor should it affect ecologically important sites.

- 1) Proactive measures should be taken to reduce and manage flooding hazards (like clearing of drains before rain season begins).
- 2) Improvement on the integration of road and urban storm water drainage infrastructure.
- 3) Integrated solid waste management.
- 4) Urban storm water drainage infrastructure should be contracted with road infrastructure.
- 5) Encourage site infiltration through: Permeable pavements like porous concrete, coble stone, vegetated structures or grassing on road sides and vacant spaces/ gardens.
- 6) Ensure sustainable urban drainage management, there should be an integrated urban storm water drainage management on stand by especially during Elnino period.



Alternative diversions



The team

By Nelly Chepwogen