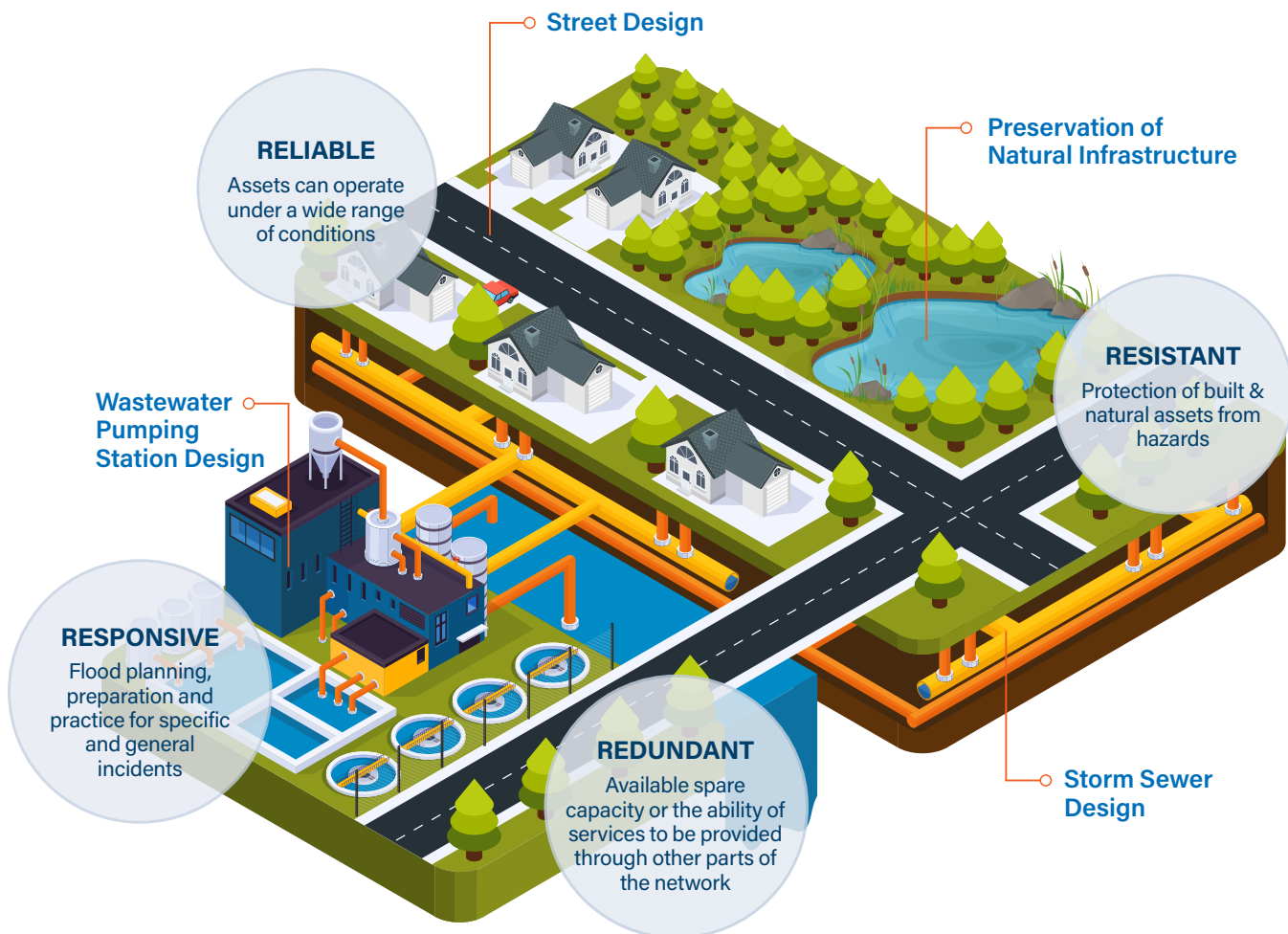


CSA W204:19, Flood resilient design of new residential communities

The number of weather-related natural catastrophes in Canada has increased in the last few decades. Water-related damages from floods and rainstorms comprised a significant portion of the financial cost associated with these natural catastrophes. There are several factors contributing to this trend, including the high number of properties located in flood-prone areas, loss of pervious surfaces due to urbanization, aging infrastructure, and, in some regions, changes in the intensity, frequency, or duration of precipitation events thought to be due to climate change.

The National Standard of Canada, CSA W204:19, aims to help Canadian municipalities by providing compliance criteria and guidance on the design of flood-resilient new residential communities as it relates to greenfield development.

Design for Resilience



Adoption of CSA W204:19 into bylaws, policies, approvals and processes may help in the following ways:

Who will benefit from this Standard?

- Local and regional governments
- Developers
- Consultants
- Home builders
- Mortgage lenders
- Real estate brokers
- Insurers
- Building inspectors
- Water utilities

We would like to learn about your experience with implementing CSA W204:19. Email us at naturalresources@csagroup.org.



Provides a checklist for approvals

to planning committees and subdivision authorities to ensure communities are built to tested, expert requirements for flood mitigation



Helps provide confidence to the public

because of the technical committee of experts and well established CSA Group process that was used to develop it



Provides certainty of expectations

to builders and developers thus lessening staff time in the application process and speeding up approvals time



Provides comfort

to municipalities that don't have the resources to fully investigate flood mitigation measures for their future developments



Demonstrates flood mitigation policy objectives

are being proactively addressed in a measurable way



Provides consistency

from one municipality to another within a region and a competitive advantage for development within a province



Avoids costs

and make resources stretch further by not having to create unique compliance and approvals tools



Aligns with a municipality's climate change plan

for use in grant applications



Assists communities

by mitigating future flooding

Get CSA W204:19

csagroup.org/store

naturalresources@csagroup.org

For more on CSA Group research and standards for improved flood resilience of communities, visit csagroup.org/FloodResilience



This work was funded by the Standards to Support Resilience in Infrastructure Program at the Standards Council of Canada (SCC). For more on what SCC is doing to address climate resilient infrastructure, visit the [Climate and Sustainability](#) web page.