

City of Nanaimo Green Infrastructure



CAVI Showcase - September 14th 2007



Outline

- Setting the Context
 - Defining Green Infrastructure
 - Green Infrastructure tools for Nanaimo
- Case Studies:
 - Oliver Road Recreation Centre
 - InLand Kenworth - Northfield Road
 - Cottle Creek Estates

Setting the Context

Green Infrastructure

- Natural



- Engineered

Setting the Context

Natural Green Infrastructure

- Undeveloped areas
- Parks and greenways
- Rivers, streams, wetlands
- Working lands (ALR)
- Aquifers and watersheds
- Trees, forests

Setting the Context

Engineered Green Infrastructure

- Engineered wetlands and stormwater detention ponds
- Grassy swales, pervious pavement and “rain gardens”
- Green roofs
- Oil and grit separators
- Narrower roads
- Topsoil preservation, minimum depths
- Metering, rainwater harvesting
- District energy, landfill gas-to-electricity, waste recycling

Setting the Context

Benefits of Green Infrastructure

- Biodiversity and habitat protection
- Pollution abatement
- Water quality services
- Air quality services
- Rainwater management
- Flood control
- Recreational space
- Public health
- Property values enhanced
- Economic development
- Staying ahead of senior government regulation

Setting the Context

Finding the right “balance”
to make things happen on
the ground

- Leaders and champions
- Set goals and direction
- Integrate goals and processes
- Build partnerships and expertise
- Pilots - build success incrementally
- Monitor and adapt



Setting the Context

- Green Infrastructure tools used in Nanaimo:
 - City of Nanaimo Green Building Policy
 - City Development Permit Areas
 - Watercourses
 - Parkway
 - Environmentally Sensitive Areas
 - Steep Slope Development Permit Area and Zone
 - Alternative Stormwater Council Policy
 - Development adjacent to watercourses