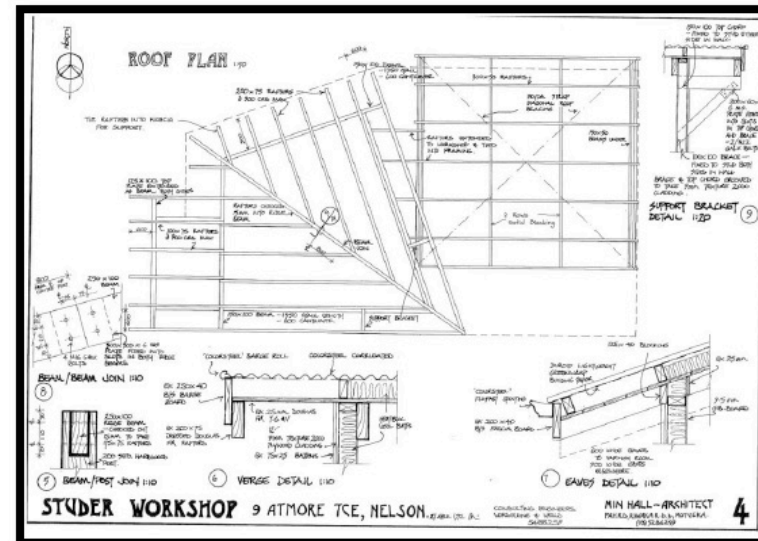
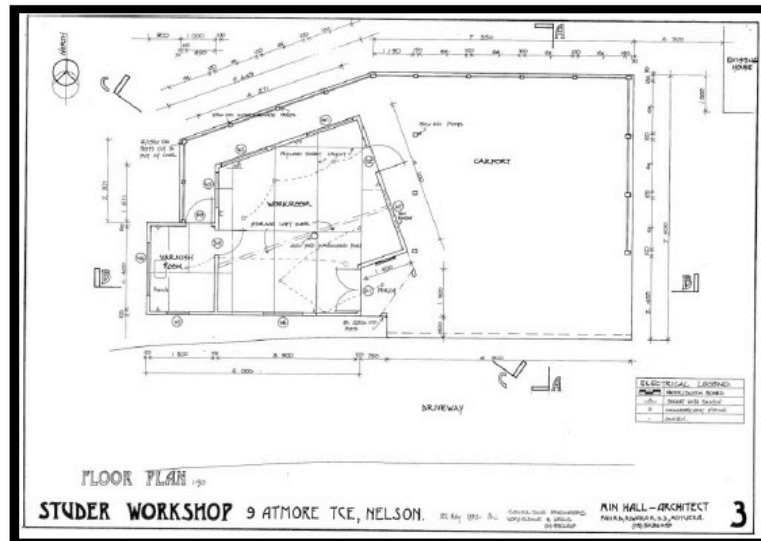


STUDER WORKSHOP, NELSON - 1992

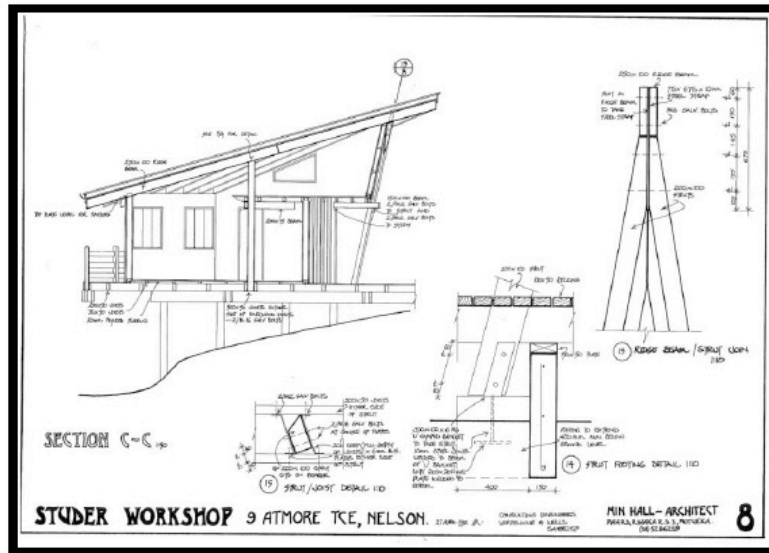
Project Role – Designer and Documentation Provider.

Workshop and carport for violin maker on the edge of the city.



STUDER WORKSHOP, NELSON - 1992

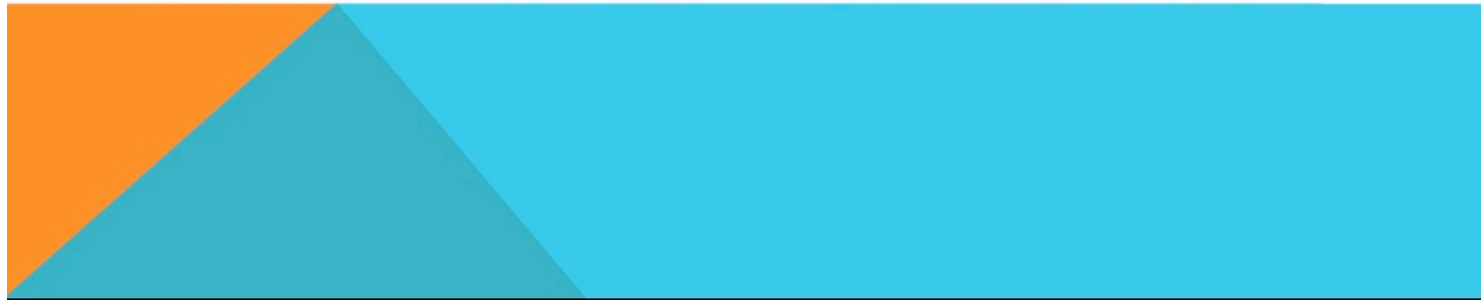
The roof starts low providing filtered light at the workbench and rises to allow loft space over the entry. One internal lawson cypress post supports and anchors.

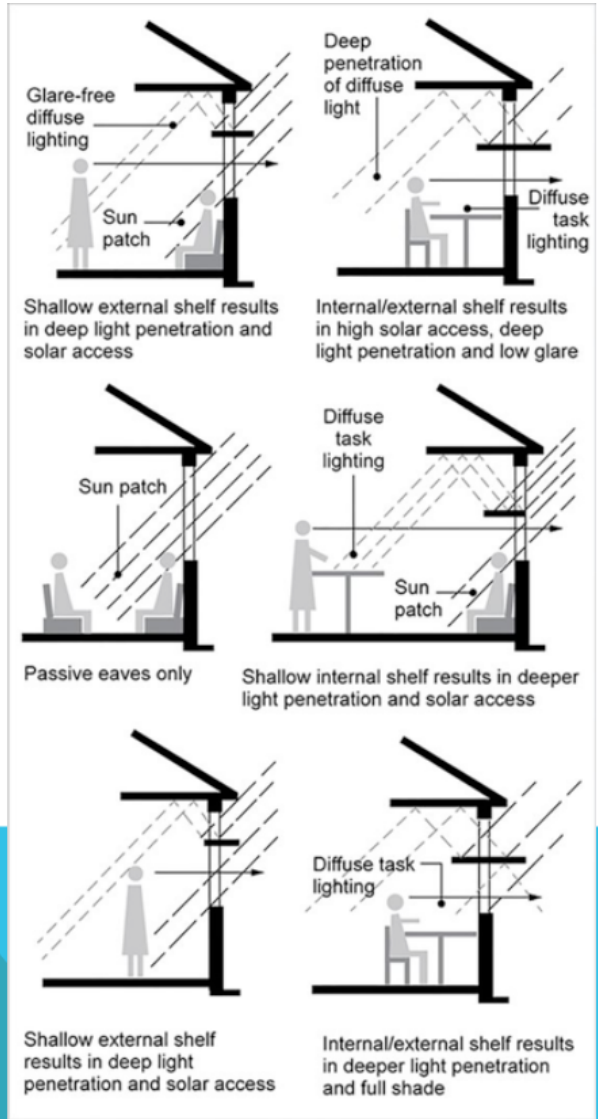




ARCHITECTURAL TECHNOLOGY 1 ARCH 6411

Passive Solar Design

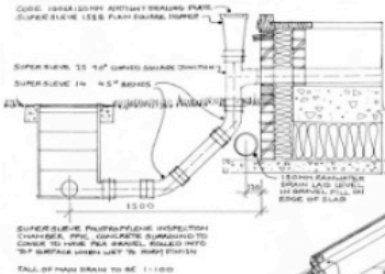






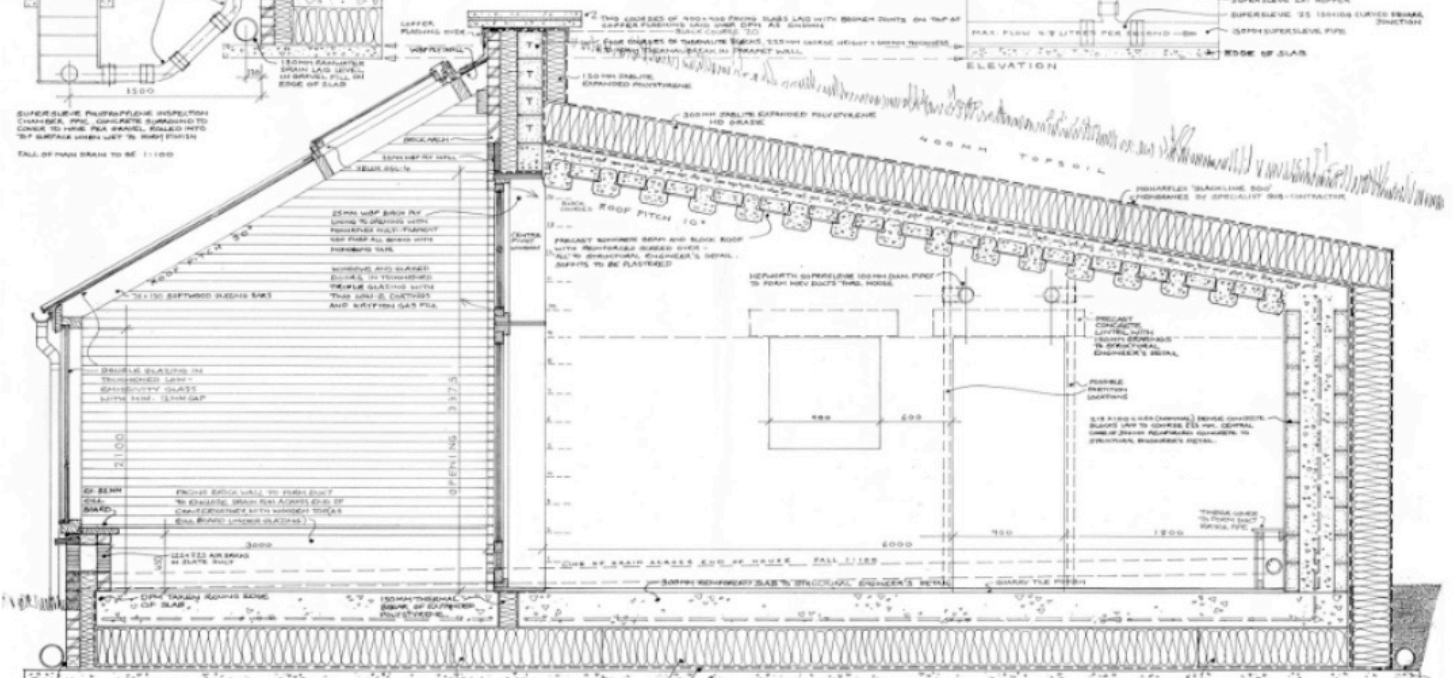
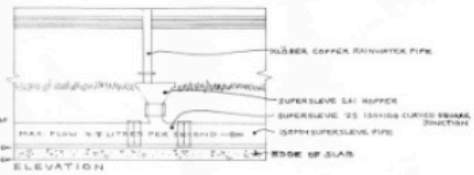
Hockerton Housing Project

Brenda and Robert Vale



SUPER SLAVE POLYPROPYLENE INSULATION
CHAMBER, 90% COMPACTED SUBMITTED TO
UNDER TO SHOW PLA PANEL BOLDED INTO
TOY SURFACE UNDER LIFT TO 1:100

TALL OF PAIN SHALL BE 1:100



OPEN PENETRATION AT 150MM CHANNELS
TO DRAIN CAVITY

EXTENSION WALL WITH 150MM GRANULATED SAND FILL
CONCRETE SLAB BEHIND 150MM GRANULATED SAND FILL
CONCRETE SLAB BEHIND 150MM GRANULATED SAND FILL
CONCRETE SLAB BEHIND 150MM GRANULATED SAND FILL
CONCRETE SLAB BEHIND 150MM GRANULATED SAND FILL
CONCRETE SLAB BEHIND 150MM GRANULATED SAND FILL

100MM GRANULATED SAND TO BRICKWORK ENGINEER'S DETAIL

300MM GRANULATED SAND TO BRICKWORK ENGINEER'S DETAIL

BRICK WORK 1:100

DOUBLE GLAZING ON
GLAZING UNIT
SPACER UNIT
WITH 12MM GAP

300MM GRANULATED SAND TO BRICKWORK ENGINEER'S DETAIL

BRICK WORK 1:100

ITEM	QTY	UNIT	PRICE	TOTAL
ROOFING	100	SQ	100	10000
INSULATION	100	CUB	50	5000
DRAINAGE	100	L	20	2000
ROOFING	100	SQ	100	10000
INSULATION	100	CUB	50	5000
DRAINAGE	100	L	20	2000

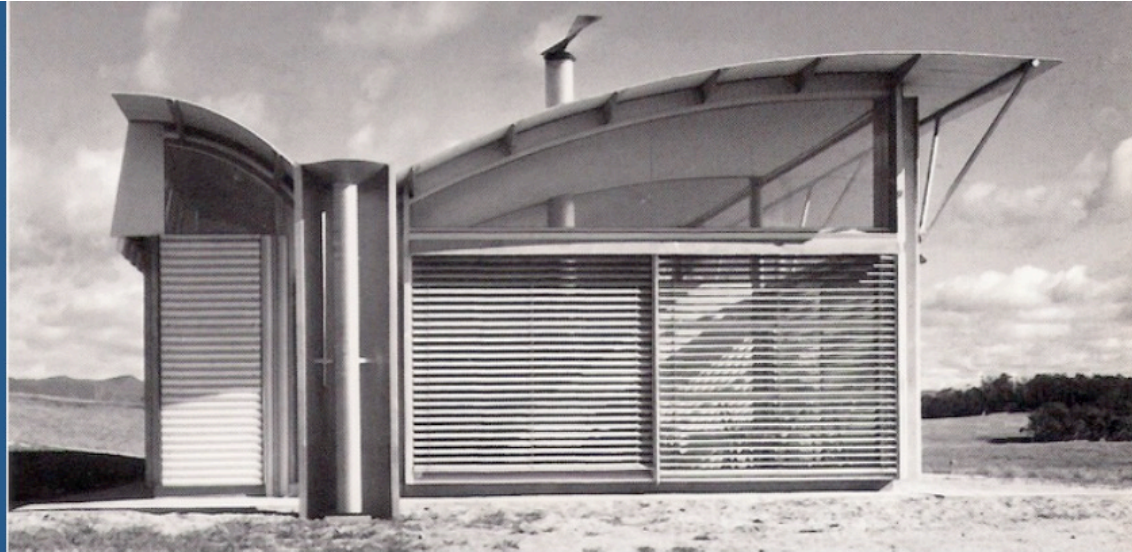
TOTAL
MAX. NET AREA OF 100 (200,000) SQ. METERS



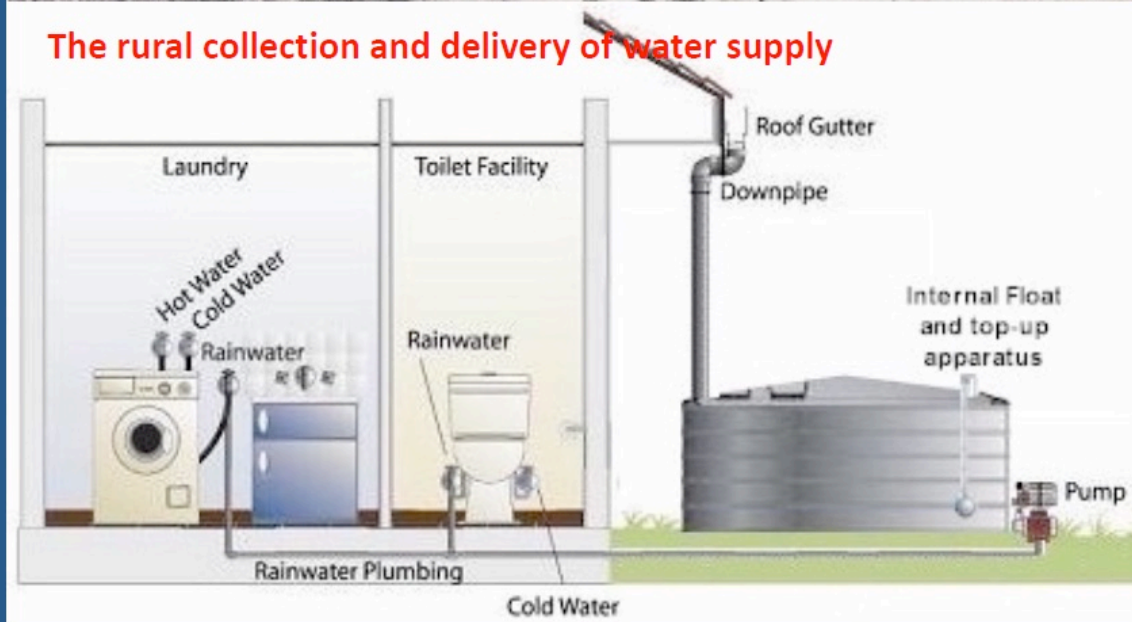


Water Supplies

Some Source Material BUILDING SERVICES –
CIBC5004
Max Hynds



The rural collection and delivery of water supply



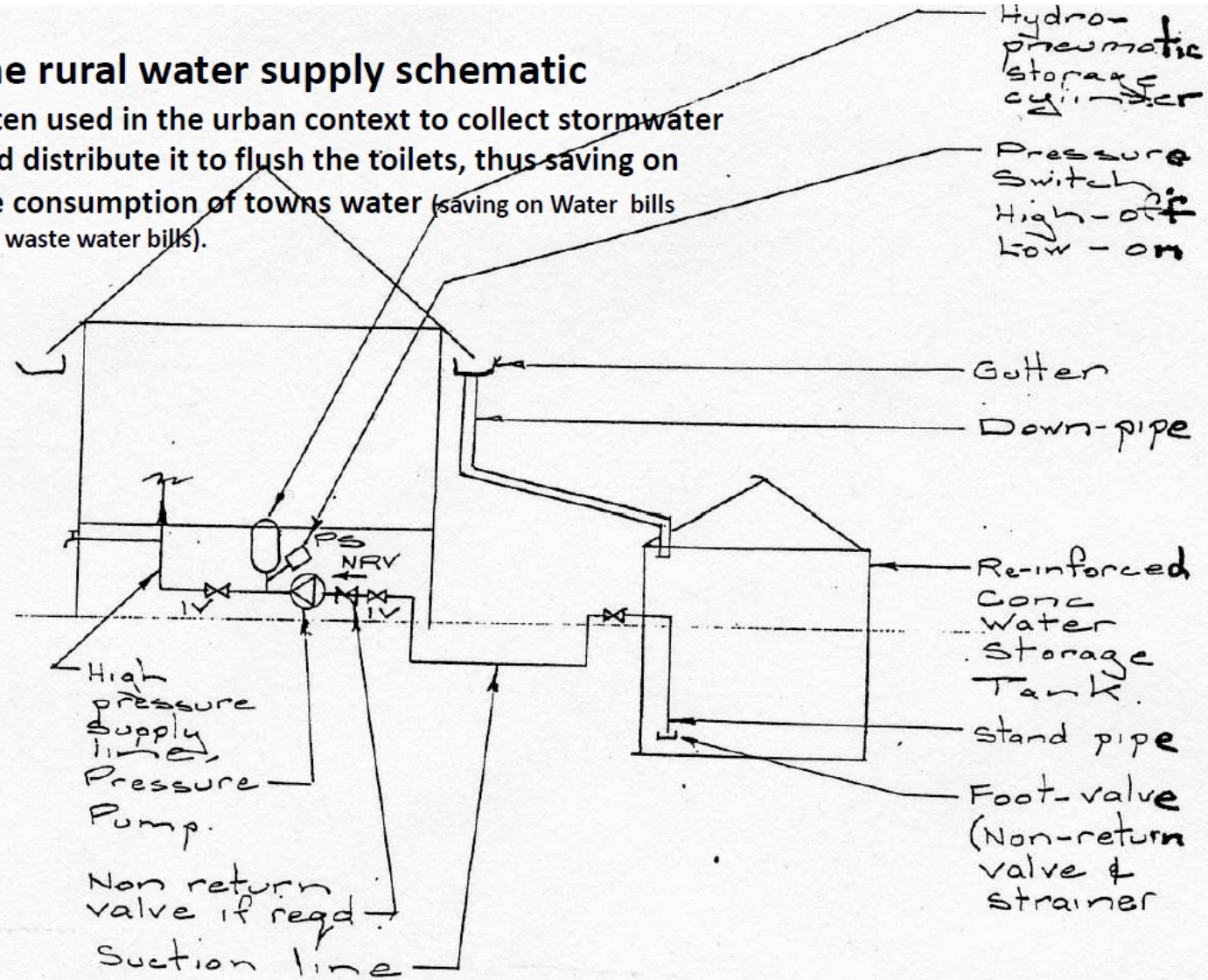


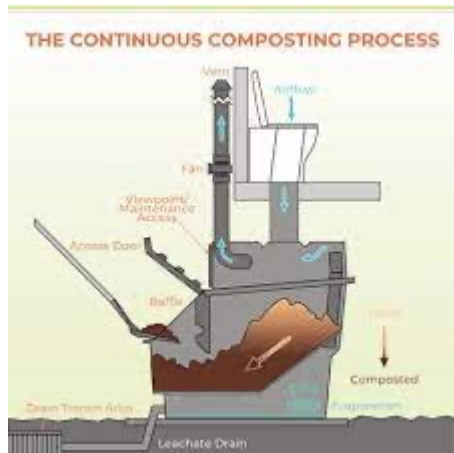
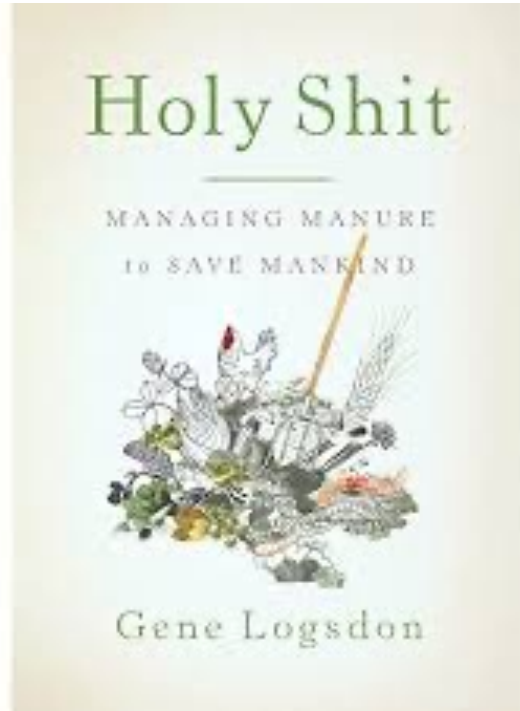
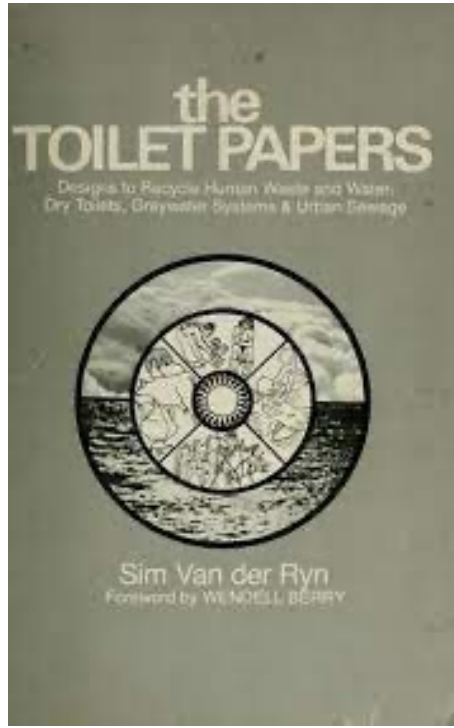
Tanks: Storage

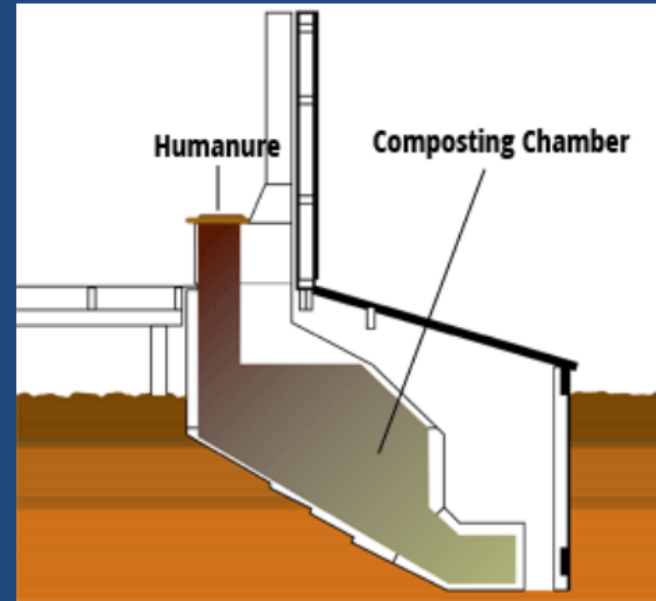


The rural water supply schematic

Often used in the urban context to collect stormwater
And distribute it to flush the toilets, thus saving on
the consumption of towns water (saving on Water bills
and waste water bills).







Composting Toilets

In order to keep the Human Nutrient Cycle intact, food for humans is grown in enriched soil from organic waste from humanure and food scraps. Humans can maintain the fertility of their agricultural soils indefinitely by respecting this cycle.

SOURCE: [Humanure](#)

Low environmental impact

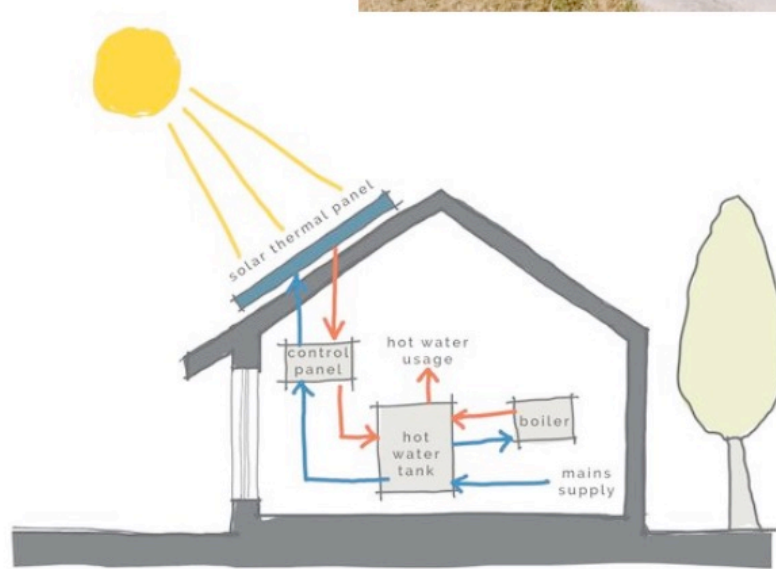
Bioloos do not require power or water. No chemicals are required. The system completely relies on naturally occurring bacteria and worms to work.

No Electricity. No Water. No Chemicals.

The BioLoo System is a less than a third the cost of traditional septic tanks. The UV-treated polyethylene plastic ensure up to a 50 year lifespan.

Low Cost

The BioLoo System is a less than a third the cost of traditional septic tanks. The UV-treated polyethylene plastic ensure up to a 50 year lifespan.



Wind energy has been developing steadily over the last 25 years. There has been significant improvement in the efficiency and capacity of wind turbines over that time. This graphic highlights the significant development in wind turbine technology since Meridian began developing wind farms in New Zealand.

