Concept Development
001 Conceptual drawing exploring the layout and accommodation schedule within the project.

002 Placement of conceptual design on site.

003 First conceptual drawing on the placement of agricultural centre and crops on site.

004 Conceptual drawing on the placement of agricultural centre and crops on site.

005 Drawing exploring the shape and placement of agricultural centre on site.
006 Bubble diagram exploring the layout and accommodation of agricultural centre.

007 Drawing exploring the position of individual stalls within the market area.

008 Agricultural centre to consist of several individual units.

009 Individual units of agricultural centre to be linked by a walkway on the side of the building.

010 First conceptual elevation of urban agricultural centre.

011 Conceptual drawing exploring layout and shape of agricultural centre.
012 Conceptual layout and accommodation of the urban agricultural centre.

013 Drawing exploring the possible layout and accommodation of the housing component for co-operative members.

014 Drawing exploring the position and layout of design on site.

015 Conceptual drawing of the market area.
016 Proposed layout of agricultural centre

017 Concept drawing of the market building

018 Vignette, showing the basic layout of the agricultural Centre.

019 Design exploration of possible fruit and vegetable display
Design development on the layout of the agricultural centre

Proposed layout of courtyard area
022 Proposed urban design of area around centre
023 Section AA; exploration of height and scale.

024 Section BB; exploration of height and scale.

025 Design exploration of concrete tables and seating around courtyard

026 Gum pole construction concept

027 Gum pole construction concept
028 Conceptual drawing of evaporative cooling fridges
029 Exploration into the construction of evaporative cooling fridges
030 Conceptual drawing of evaporative cooling fridges
031 Gum pole construction concept
032 Design exploration of urban agricultural outbuildings
033 Design exploration of urban agricultural outbuildings
Summer wind: East-north-easterly to East-south-easterly
Winter wind: Fair amount in all directions

Layers of Geo-textile
UPVC drip pipes

Evaporative Cooling fridges
Photovoltaic panels (x4)

Rainwater storage tanks
Outbuilding water tank

Battery control circuitry and pump meter
Compost toilets
Compost heap

Everyday water use
Cleaning and Packaging area

Gray water and storm water
Filter

Crops

Pienaars River

Hydraulic Ram / Gravity drive pump:
1650 litres of water pumped over 24 hour period
035 Conceptual layout and elevation of agricultural outbuilding.
036 Conceptual drawing of the market area: street facade.
037 Proposed layout of agricultural outbuilding.
038 Gum pole construction concept.
039 Concept model of proposed urban agricultural centre.