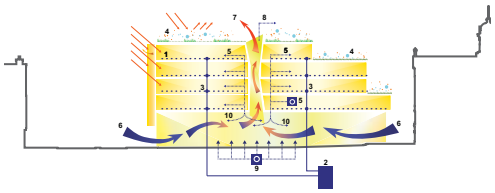
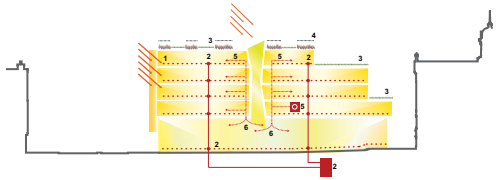
Summer



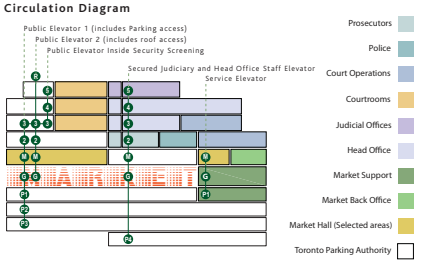
1 Radiant floor cooling absorbs solar gain to keep building thermal mass cool.
2 Water cooled high efficiency variable speed chiller for radiant floor and ventilation air cooling.
3 Radiant floor system for cooling.
4 Extensive roof and urban agriculture plots captures rain which evaporates to cool building.
5 Heat wheel recovers cooling to condition ventilation system air and reduces energy for chiller.
6 Market and mezzanine walls open dramatically for natural ventilation.
7 Monitor provides passive natural ventilation for Market and mezzanine.
8 Fan assists convection when stack effect is weak.
9 Undersized cooling unit provides conditioned air to Market and mezzanine.
10 Redirected ventilation air to Market at peak use on weekends.

Winter



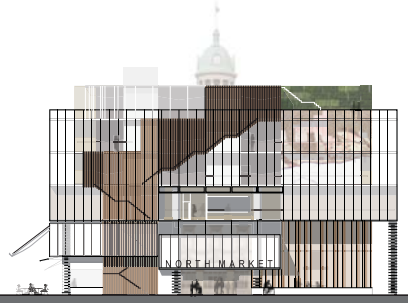
1 Thermal mass of building absorbs solar load and reduces energy required for boiler.
2 High efficiency condensing gas fired boiler for radiant floor heating.
3 Dormant intensive and extensive roofs increases insulation.
4 Perforated white tarp for erosion control.
5 Heat wheel recovers heat to condition ventilation system air.
6 Re-directed ventilation air for Market at peak use on weekends.

Circulation Diagram



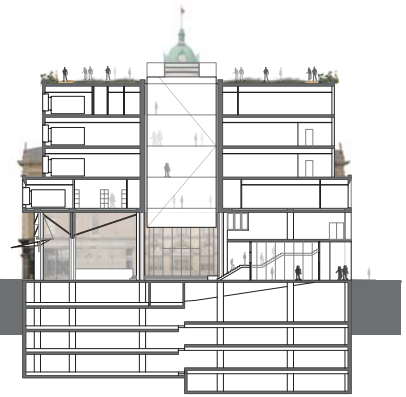
East Elevation *1:300*

South Market, North Elevation *1:300*



South Elevation *1:300*

Urban Porch *1:300*



Monitor *1:300*