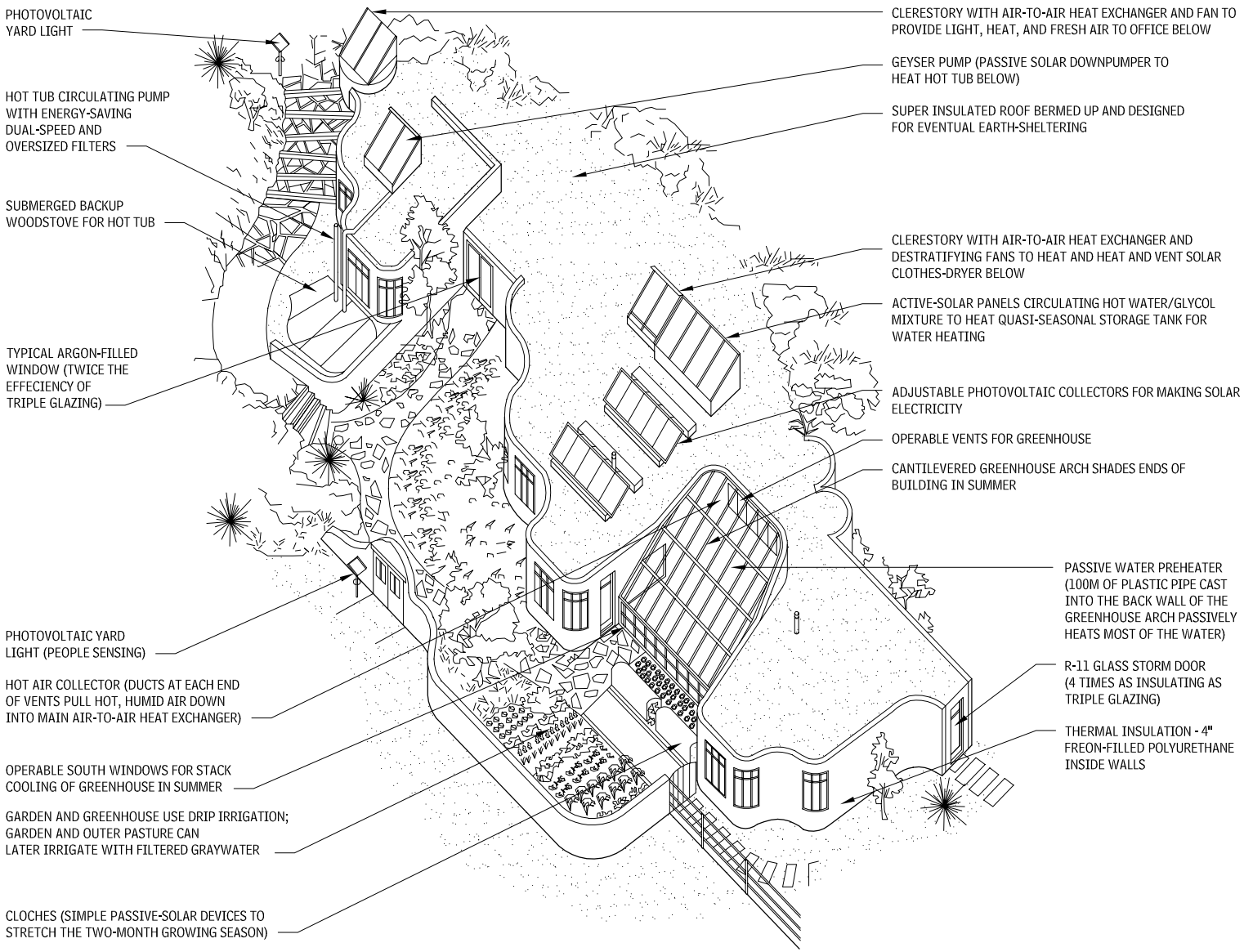
PHOTOVOLTAIC YARD LIGHT
HOT TUB CIRCULATING PUMP WITH ENERGY-SAVING DUAL-SPEED AND OVERSIZED FILTERS
SUBMERGED BACKUP WOODSTOVE FOR HOT TUB
TYPICAL ARGON-FILLED WINDOW (TWICE THE EFFECIENCY OF TRIPLE GLAZING)
PHOTOVOLTAIC YARD LIGHT (PEOPLE SENSING)
HOT AIR COLLECTOR (DUCTS AT EACH END OF VENTS PULL HOT, HUMID AIR DOWN INTO MAIN AIR-TO-AIR HEAT EXCHANGER)
OPERABLE SOUTH WINDOWS FOR STACK COOLING OF GREENHOUSE IN SUMMER
GARDEN AND GREENHOUSE USE DRIP IRRIGATION; GARDEN AND OUTER PASTURE CAN LATER IRRIGATE WITH FILTERED GRAYWATER
CLOCHES (SIMPLE PASSIVE-SOLAR DEVICES TO STRETCH THE TWO-MONTH GROWING SEASON)
CLERESTORY WITH AIR-TO-AIR HEAT EXCHANGER AND FAN TO PROVIDE LIGHT, HEAT, AND FRESH AIR TO OFFICE BELOW
GEYSER PUMP (PASSIVE SOLAR DOWNPUMPER TO HEAT HOT TUB BELOW)
SUPER INSULATED ROOF BERMED UP AND DESIGNED FOR EVENTUAL EARTH-SHELTERING
CLERESTORY WITH AIR-TO-AIR HEAT EXCHANGER AND DESTRATIFYING FANS TO HEAT AND HEAT AND VENT SOLAR CLOTHES-DRYER BELOW
ACTIVE-SOLAR PANELS CIRCULATING HOT WATER/GLYCOL MIXTURE TO HEAT QUASI-SEASONAL STORAGE TANK FOR WATER HEATING
ADJUSTABLE PHOTOVOLTAIC COLLECTORS FOR MAKING SOLAR ELECTRICITY
OPERABLE VENTS FOR GREENHOUSE
CANTILEVERED GREENHOUSE ARCH SHADES ENDS OF BUILDING IN SUMMER
PASSIVE WATER PREHEATER (100M OF PLASTIC PIPE CAST INTO THE BACK WALL OF THE GREENHOUSE ARCH PASSIVELY HEATS MOST OF THE WATER)
R-11 GLASS STORM DOOR (4 TIMES AS INSULATING AS TRIPLE GLAZING)
THERMAL INSULATION - 4" FREON-FILLED POLYURETHANE INSIDE WALLS

12.1_16