LEED GOLD

STORMWATER MANAGEMENT
DESIGNED TO REDUCE POST DEVELOPMENT SITE RUNOFF BY 41% FOR THE TWO-YEAR 24-HR DESIGN STORM

GLASS PARTITIONS
ZONING THE BUILDING'S MORE INTENSIVE RESEARCH SPACES BY REMOVING GRADUATE WORKSTATIONS FROM THE HIGH AIR CHANGE RATE ENVIRONMENT BY UTILIZING GLASS PARTITIONS

CHILLED BEAMS
LOW VELOCITY CHILLED BEAMS FOR CONDITIONING SPACES REDUCES ENERGY CONSUMPTION

ENHANCED VENTILATION SYSTEMS
PREHEATED OUTSIDE AIR WITH PROCESS COOLING WATER TO PROVIDE PRECONDITIONED MAKEUP AIR

AIR AND ENERGY EFFICIENCY
RETURN AIR FROM OFFICES AND CLASSROOMS UTILIZED AS MAKEUP AIR TO LABORATORIES.
CONDITIONED OPEN LAB AIR USED TO HELP COOL LAB EQUIPMENT SPACES.
ENERGY RECOVERY AT FUME HOODS

DYNAMIC & DIFFUSE DAYLIGHTING
FRIT AND HIGH PERFORMANCE COATINGS ON THE GLAZING REDUCE SOLAR HEAT GAIN.
FACADE PATTERNING OPTIMIZED FOR DAYLIGHT

Baguette Patterns

Daylighting Autonomy

Useful Daylight Illuminance

PARAMETRIC MODELING USED TO OPTIMIZE THE AMOUNT OF DAYLIGHT IN THE INTERIOR SPACES

ENHANCED RAINSCREEN WALL
MINIMIZES AIR LEAKAGE EVEN UNDER THE NEGATIVE PRESSURIZATION REQUIRED FOR LABORATORIES

SUSTAINABLE IRRIGATION
CENTRALLY CONTROLLED IRRIGATION MANAGEMENT SYSTEM TO ENSURE PROPER WATERING THROUGH MONITORING OF FLOW RATES AND WEATHER

SMART SENSORS
OCCUPANCY SENSORS REDUCE ENERGY USE AND INCREASE USER COMFORT

WATER CONSERVATION
REDUCTION OF POTABLE WATER CONSUMPTION BY NEARLY 50%; SAVINGS OBTAINED THROUGH THE USE OF LOW FLOW BATHROOM FEATURES

AIR AND ENERGY EFFICIENCY
RETURN AIR FROM OFFICES AND CLASSROOMS UTILIZED AS MAKEUP AIR TO LABORATORIES

HIGHLY SUSTAINABLE MATERIALS
LOW-VOC ADHESIVES, SEALANTS, PAINTS, COATINGS, FLOORING, COMPOSITE WOOD AND AGRIFIBER PRODUCTS. 62%OF THE TOTAL BUILDING MATERIAL CONTENT WAS MANUFACTURED USING RECYCLED MATERIALS

FACILITIES & OPERATIONS
ARCHITECTURE, ENGINEERING AND CONSTRUCTION
UNIVERSITY OF MICHIGAN

Biological Sciences Building

1005169
U-M Building Number

P00007315
U-M Project Number