According to the group strategy, we planned a mixed-use campus with creativity, science, business, etc. in the definition of "Health City." The recreation and sports space is one of the components to build a Health City. To better achieve the goal, physical fitness is essential for all people working, studying, researching, or visiting this area because it is the basis of dynamic and creative intellectual activity.

The position of the sports center is the center of the campus, which is convenient for people to visit it by walking. This area is inside the ore walls. These ore walls are the only existing heritage on the site. However, they are abandoned now and they are facing the risk of being demolished (in some proposal). The ore walls need to be re-identified and come back to life again. To make buildings between the ore walls is an essential way to absorb people at the very beginning on the vacant land. The rest space can also be park or garden, which make the ore walls area become a harbor to bring visitors in and develop the whole area.

Basketball, swimming, fitness are the main functions inside the complex, accompanied by some other sports like squash, table tennis which need less space. Sports for children and rehabilitation are also available in the project. The aim is to organize these sports items in clear and reasonable way. Considering the unique site conditions, it is necessary to create nice atmosphere within the site. The existing ore walls become the key elements to make space. Along the path across the ore walls to the other side of the harbor, various of possibilities of space are made. The definition of the path has been changed. It is no longer a lonely road, but becomes part of the building. It is now a semi-public/private space, and brings in interesting experience into the building.
ON THE GROUND FLOOR, BECAUSE OF THE ORE WALLS SO THE BUILDING MUST BE DIVIDED INTO FOUR PARTS. TO KEEP THE PATH IN THE MIDDLE, THESE FOUR PARTS ARE INDEPENDENT FROM EACH OTHER ON THE GROUND FLOOR. THEIR FUNCTIONS ARE ALSO DIFFERENT AS THE MAIN ENTRANCE, THE BASKETBALL COURT, OFFICES FOR STAFF, AND THE SWIMMING POOL. ON THE FLOOR, PEOPLE ARE FREE TO GO ANYWHERE BUT THEY CAN ENTER THE BUILDING ONLY FROM THE EAST BLOCK.


INSTEAD OF THE ORIGINAL SITUATION THAT PEOPLE WALK IN STRAIGHT LINE TO PASS THE ROAD, NOW PEOPLE CAN SLOW DOWN AND ENJOY THE FEELING OF THE BUILDING ON BOTH SIDES. THE CENTRAL PATH STILL DIRECTLY CONNECTS THE FOUR ORE WALLS TO THE HARBOR, BUT PEOPLE CAN STAY IN THE COURTYARD OR CHANGE TO WALK IN HORIZONTAL WAY ALONG THE ORE WALL. VERTICAL TRAFFIC AS ELEVATOR AND STAIRS ARE LOCATED IN MANY PLACES IN THE BUILDING.

Because of the significant site conditions, the project cannot ignore the existence of the ore walls. Space created with the walls is necessary, considering the characteristics of wall, long and large space can be made combine the wall. In the project there are six main types of space built with the wall. If take the ore walls away, those space does not exist anymore. Corridors on the wall, courtyard with wall as border, skylight with wall. The ore walls provide people with interesting experience.

EAST ELEVATION 1:200

SECTION C-C 1:200
FACADE DETAIL D 1:5 SKYLIGHT
SOUTH CHICAGO COMPLEX GRADUATION STUDIO
SPORTS COMPLEX
TUTORS: HENRI VAN BENNEKOM    HUBERT VAN DER MEEL   ROBERTO CAVALLO
STUDENT: XIAO DU    4258096
G9 HEALTH CITY

EAST ELEVATION 1:50
SECTION 1:50
GROUND FLOOR PLAN 1:50
SECTION 1:20
ELEVATION 1:20

FACADE DETAIL A 1:5 ROOF
FACADE DETAIL B 1:5 FOUNDATION
FACADE DETAIL C 1:5 WINDOW

1  70mm ARTIFICIAL STONE PARAPET COPING.
2  PARAPET CONSTRUCTION:
390mmX185mmX40mm NATURAL STONE FACE,
50mm VENTILATION GAP,
90mm PUR RIGID INSULATION,
BITUMINOUS SEALANT LAYER
3  65mmX55mmX10mm STEEL L-PROFILE FOR SHEAR PROTECTION,
MOUNT TO SPACERS
4  ROOF CONSTRUCTION:
40mm NATURAL STONE,
10mm VERTICAL JOINTS,
15mm POINT FIXED SUPPORT ELEMENT,
30mm DRAINAGE AND BUILDING PROTECTION MAT,
3-PLY BITUMINOUS MEMBRANE,
120mm PUR RIGID INSULATION,
VAPOUR BARRIER,
200mm REINFORCED CONCRETE SLAB

SUSPENDED CEILING:
10mm GYPSUM BOARD
STEEL SUPPORTING STRUCTURE

FLOOR CONSTRUCTION:
20mm LARCH PARQUET WOOD FLOORING,
8mm MORTAR BED,
50mm CEMENT SCREED WITH UNDERFLOOR HEATING/COOLING
SEPARATING LAYER,
60mm PUR RIGID THERMAL INSULATION,
200mm REINFORCED CONCRETE SLAB
80mm THERMAL INSULATION,
BITUMINOUS SEALANT LAYER.

1  90mmX600mm CONCRETE ELEMENT, BUILDING PROTECTION.

INSULATION GLAZING:
12mm TOUGHENED GLASS+20mm AIR CAVITY+12mm
LAMINATED SAFETY GLASS IN ALUMINIUM FRAME,
ANODISED BLACK.
2  10mm WHITE RENDER ON 12MM GYPSUM BOARD.
3  2.5mm ALUMINIUM SHEET METAL, ANODIZED,
50mm CONCRETE ELEMENT,
40mm THERMAL INSULATION,
VAPOUR BARRIER,
BITUMINOUS SEALANT LAYER,
200mm REINFORCED CONCRETE.