1. LAKESHORE DRIVE - 25m WIDE

ZONE 2 - GARDENS
ZONE 3 - COURTYARDS

GRID DESIGN

PROPOSAL:
ABSENCE OF CONNECTION FROM EAST TO WEST
LOW FREQUENCY
DISADVANTAGE:
DOWNTOWN
THE MOST CONVENIENT WAY OF PUBLIC CONNECTION FROM SOUTH CHICAGO TO
ADVANTAGE:
DIRECTION: NORTH TO SOUTH

THE METRA LINE

TOTAL PROGRAM COMPARISON TO SOM
PROGRAM BAR OF HEALTH SCIENCE CAMPUS

193 supporting strategies.
12 priority areas, and
16 health outcome targets,
unveiled on

■ SOCIAL BACKGROUND: GOVERNMENT’S SUPPORT MAKE AN HEALTHCARE DEVELOPMENT AVAILABLE

Healthy Chicago identifies

■ PATIENT CARE AREA
■ EDUCATION & RESEARCH
■ COMPANY
■ HOUSING AREA
■ OTHER

13.4% 115000
36.2% 215712
52% 211499
14.7% 121499
12.2% 10023

■ EXISTING MAIN ROAD
■ EXISTING METRA STATION
■ EXISTING VELOCROME
■ EXISTING DYE WALL
■ LAKEFRONT PARK

SITE CONDITIONS

THE HEALTHY CHICAGO PUBLIC HEALTH AGENDA

■ FUNCTIONAL LINK BETWEEN THE CLUSTERS

Structure of Health City

Structure of Health Science Campus

Transport Strategy

General Space Strategy

Grid Design

Green Zones Strategy

Site Condition Analysis

Background Research

■ EXISTING METRO STATION
■ THE EXISTING VELOCROME (WILL BE RECONSTRUCTED IN 2014)
■ THE EXISTING LAKESIDE PARK
The best way to conserve a heritage building, structure or site is to use it ... Adaptation links the past to the present and projects into the future.
STRUCTURAL CONCEPT

The structural concept is integrated into the building's layout, focusing on:

- **Concrete element in the campus**
- **An external part of the interior**
- **A base of the structural system of the envelope**

The concrete setting plate, bracing the vertical elements on the ground level,

- Steel portal frames
- Tension cables

Pitched silhouette of the roof structure, refers to the typologies of industrial buildings, connecting the building to the site (former steel plant) and the ore walls.

The location and the orientation of the building establish the foundation of the climate scheme of the building, as well as the volumetric features:

- Adjacent to the water - geothermal energy
- North-south orientation - solar energy on the south facade, shaded north facade
- Large roof area - solar energy/heat recovery
- Overheating - shading/cooling required
- Large interior volume - heating/ventilation required

INVENTORY OF THE BEAM TYPES

CLIMATE CONCEPT

The location and the orientation of the building establish the foundation of the climate scheme of the building, as well as the volumetric features.

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ROUTING CONCEPT

In order to separate the flows of people, the public route passing through the building is elevated above the ground level, while the conference facilities are connected by the network of passages on the ground floor.

**EXPLODED VIEW DIAGRAM**

- External Glass Envelope
- Roof Construction
- Public "Street"
- Functional volumes
- The Ore Walls

**DESIGN CONCEPT**

- MAIN AUDITORIUM 1187 m²
- LECTURE ROOMS 564 m²
- BALLROOM 278 m²
- SPEAKER ROOMS 60 m²
- VIP ROOMS 64 m²
- MEETING ROOMS 376 m²
- CONFERENCE ROOMS 1247 m²
- RESTAURANTS 605 m²
- CAFES 639 m²
- PUBLIC "STREET" 1590 m²
- RETAIL 140 m²
- MEDIA ROOM 38 m²
- STAFF ROOM 38 m²
- FIRST AID ROOM 30 m²
- STORAGE AREA 107 m²
- LOADING AREA 50 m²
- SERVICES 235 m²
- ADMINISTRATION 207 m²
- RECEPTION/INFORMATION DESK 187 m²
- SECRETARIAT 121 m²
- CHILDREN'S RECREATION CENTRE 286 m²
- BACK OF HOUSE 2420 m²

**West Facade**

Scale 1:50

**East Facade**

Scale 1:50

**Cross Section B-B**

Scale 1:50

**Cross Section C-C**

Scale 1:50

**Cross Section D-D**

Scale 1:50