Plan/Section:
- Space Layout
- Section
- Drawing

Exterior Lookout
Great Lakes

Entry/Lobby/billing
Exhibition Hall one → Museum
Exhibition Hall two → Exterior Stairs - double 5 Sun Shade
Exhibition Hall three → Great Lakes
Lookout
Museum lobby -  
Bag - grand -
gestural -
showy $5.5

Vertical movement
30' up - 8 stories - lots of Stairs
Elevators
Ramps
Oscillators
Stairs

Fire exits?

What if you go 20' so' work on the very end of bldg? how would you get there?

- has an i not using Sinq? Private?
- Re-think entry - What am I missing?
- Re-think design trestle idea - originally designed purely for function
- New occurring oasis which occur at level changes
- What's on top?
- Different zone for each great lake?

Upper -
Office
Meeting
Break
Rest Rooms

Lower -
Lobby
ticketing
Rest Rooms
Sudden open to top of structure

Entry

Larger enclosed space, tall ceiling - moving people through - rest, contemplate - moving through

Tapered in - large column structures

Intimidates many people - gathering space

Accommodates many people - quickly - emergency, work, etc

Lower 'intimate' space - comfortable - not as many people
Mining
- What mines looked like - models - pictures -
- Materials which were mined in Wisconsin
- Tools used
- Environmental concerns
- Effects of mining on the environment, to the Miners, on the economy
- Journey the ore took to get from ground to processing
- Processing
- Transportation from Shovel to Ship
- Disasters
- Memorial garden

Materials - Minerals - how it would look on the ground
- What happens after processing in the years of a Great Lake

Shipping

<table>
<thead>
<tr>
<th>Lake</th>
<th>Max</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Superior</td>
<td>1,335</td>
<td>483</td>
</tr>
<tr>
<td>Michigan</td>
<td>925</td>
<td>279</td>
</tr>
<tr>
<td>Ontario</td>
<td>804</td>
<td>283</td>
</tr>
<tr>
<td>Huron</td>
<td>748</td>
<td>195</td>
</tr>
<tr>
<td>Erie</td>
<td>210</td>
<td>62</td>
</tr>
</tbody>
</table>

Superior 4,100
Michigan 12,400
Ontario 23,000
Huron 23,000
Erie 9,910
Vehicle

Length 3.7m (12.19ft) max speed 40 kph (25 mph)
Width 1.47m (4.82ft) min turn radius 5m (16.404ft)
Height 1.0m (3.905ft)

Guide way

width 1.6m /5.24ft) station elements
height .25m (82ft) Berth docking Point interfaces
headroom 5.7m (18.7ft) buffer Charging equip

Passenger Interface destination Selection Console
Communications & Auto doors

Plinth - Raised Floor for Passenger
level access
envelope - station lift
Canopy - Passenger area roof
Shading

30' exhibit 3 level
29'
28'
27'
31'- 4" floor to floor height'

exhibit two level

30' exhibit 1 level
20'
moveement level

17'-8" 3/4
through to below

bottom floor

break floor
Model - Fig. 2nd & 4th -
Middle sections don't align with outside supports.
Green In Nature

- Reuses an existing structure; reduces new construction factors & reduces demolition debris
- Uses radiation from water to help warm the building
- Solar heating
- Park on top
Suppose the Glass
open to exterior floor
Glass walkway/roof
over glass-

wood, glass, brick, etc.
Stair level, or
hatch another stair
on roof?

Intramural

Roof height 10 ft.

Exterior

locking, bricks from top
flexible?
Mud Island

Simmy Ogles

Model 1,500 ft long
about 8 blocks
designed like concrete drainage ditch
4'x4'x8' blocks
unvented cast molds of contours
opened 1982
1.3 million gallons of water
Jet in golf
- Transition from shaft mining to open pit mining
- Transition from pit mining to building "red steps"

Concrete with different sized & exposed aggregate to look like "dirt or earth" - cannot be mistaken/kicked around by visitors. Track inset in concrete so no one trips?

Abandoned mining trestles

Notes of different materials which were mined in Wisconsin

Stationary mining cars

Tracks even with rail (like train crossing)

Bedrock informs you of object found

In natural environment

Acceptable??!

Signage??

- Not landing you through

Region unbedded in concrete?
Curtain Wall

Frame used as staging device.

Stronger vertical element, like structure of clock.

Spider Curtain Wall System

N
W
E
S
Mining tools:
- Hammers
- Shovels
- Pickaxes
- Buckets
- Mallets/Mallets
- Mining Carts/Cars
- Wheel barrows
- Steam shovels
- Lighting
- Cad pins
- Granite
- Powder Gun

Windlass

Lofters: design in elevation every time have
- Staircase
- Don't do it Small - think scale
- Elevations with joints of glass & butlers
- Spidere glass in lobby - meeting area
- Conventional glass as you go down
- Lobby
AIR CIRCULATION

Ground level

Miners' level

AIR INTAKES

Louders - Spider Assemblies

A sided Silicene Connections

Glass Sizes up to Box 204
Does it need to go all the way up?
- What's behind it?  Room?  Open?
- How do you protect it so kids don't go up to it & sticks these Pingers into it?

- Curtain wall.  What happens upstairs.  
  Don't want light into theater.  
  Shading for lobby & spaces

120'x204'  Max Standard Size
10'-10" x 17"

- How big does each Mechanical Room have to be?
- Do they all have to be on Same Floor?
- Lower on both Sides of lobby?
Shopping Elevation 18'3" 25'/82
45'-5.5'/10
4' 1/4" 1' 1 29'/82 wide
33'-413'/16" high
ele 45'-5'/82

47'-10" 17'/82

6'X6'X3' - Model
BOARDS 6'-6" apart

Wall sections
details

50'9" inside Columns
outside
42'-4" inside Columns
9'-3" between

Space on the roof for Mechanical? - AS
WALL SECTIONS

Exterior Existing

Column

Existing Core Structure
Insulation (Acoustical)
Metal Wall Studs
Wall Sheathing
Wall Finishing

Bathroom
Plumbing Wall
Corrugated Metal Deck
Loft
Docks?

Ceiling Systems
Glass

Steel Angle
Conc. Corners, Steel Metal deck, Metal Channel, Steel Sticks, Soak Insulation, Finish Material

Canopy

Rioglass, Irorono Spain
Saint gobain Diamant Dupont Sentryglass

Multi-layer
3 SentryGlass layers
1 Saint-Gobain Diamant glass

Steel Angles?

Existing Conc. Structure

Railing

Neoprene bearing pad
Pavement
Existing Conc. Structure

Glass 10'x70'x2'

Glass 10'-10"x17'

Skylight

Canyon